

This chapter includes sections for 14 WMAs, ranging from Lassen County Special Weed Action Team in the north to Kern WMA in the south, and including the Eastern Sierra WMA. For each WMA, we recommend a set of top priority opportunities based on statewide risk maps. Species selected as region-wide recommendations in chapter 2 are included as priorities for each WMA unless there are no nearby infestations. Other species with particular spatial opportunities in the WMA may be included. For instance, the southernmost reach of a particular species in the Sierra Nevada may represent an important opportunity to prevent spread.

Each section includes a table showing statistics and opportunity ratings for all species considered in this report as well as maps for top priority species for that WMA. These recommendations are not meant to be definitive. WMAs should refer to the table and full species maps in chapter 4 to determine additional local priorities. (In addition, as described in chapter 1, this study does not include every invasive plant species of potential concern in the Sierra Nevada.) Some species may be judged a top priority in a given WMA based on local impacts. Others may be judged a top priority by specific natural resource management entities within a WMA. For instance, common velvet grass (*Holcus lanatus*) is a top priority for managers in Sequoia-Kings Canyon National Park, but may be less of a priority for natural resource managers at lower elevation in the foothills.

Some WMAs fall completely within the Sierra Nevada ecoregion, while others are only partly within it. Sacramento WMA and Northern San Joaquin Valley WMA are not included although small portions fall within the Sierra Nevada. (See map in chapter 1.) Statistics for each WMA are calculated for the entire WMA, including any portion outside the Sierra Nevada region. Maps follow the species order of the table. These recommendations focus on the portion of Plumas/ Sierra WMA that is within the Sierra Nevada region (see map in chapter 1). Statistics are based on all of the Plumas and Sierra counties.

Eradication is recommended for species that have limited occurrence within the WMA. Of the species examined, the following are priority eradication opportunities for Plumas/Sierra WMA:

diffuse knapweed (Centaurea diffusa)

Scotch thistle (*Onopordum acanthium*) – guard against incursion from the northeast

dyer's woad (*Isatis tinctoria*) – prevent spread further south

Dalmatian toadflax (*Linaria genistifolia* subsp. *dalmatica*)

stinkwort (*Dittrichia graveolens*) – prevent new populations in the northern Sierra

Containment is recommended for species that are more widespread, where eradication may not be a realistic goal. The following species are priority containment opportunities for Plumas/Sierra WMA: Russian knapweed (Acroptilon repens)

musk thistle (*Carduus nutans*) – much of the county has suitable climate

spotted knapweed (*Centaurea maculosa*) – climate is highly suitable

yellow starthistle (*Centaurea solstitialis*) – prevent spread to higher elevations and into Nevada as part of the YST Leading Edge Project

rush skeletonweed (*Chondrilla juncea*) – coordinate with Nevada/Placer WMA

Scotch broom (Cytisus scoparius)

French broom (Genista monspessulana)

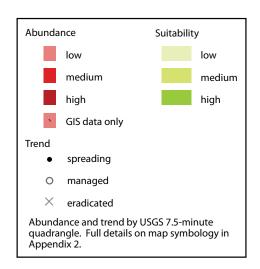
Spanish broom (Spartium junceum)

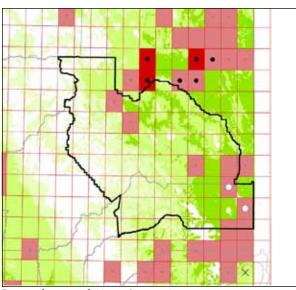
yellow toadflax (Linaria vulgaris)

Surveillance is recommended to prevent spread into Plumas/Sierra WMA:

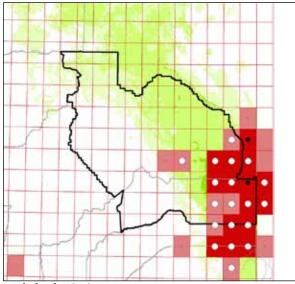
red sesbania (*Sesbania punicea*) – present in Yuba County

giant reed (*Arundo donax*)

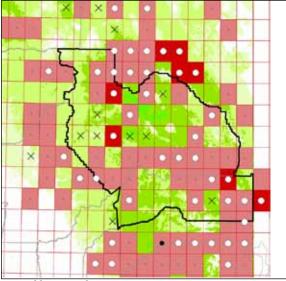




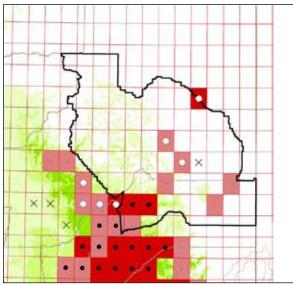
Russian knapweed (Acroptilon repens)



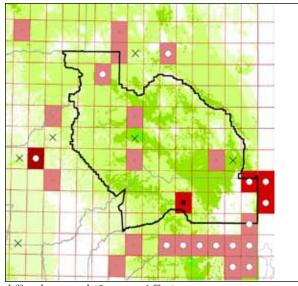
musk thistle (Carduus nutans)



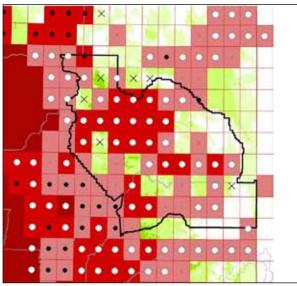
spotted knapweed (Centaurea maculosa)



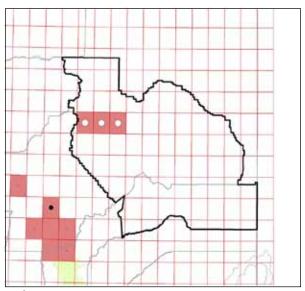
rush skeletonweed (Chondrilla juncea)



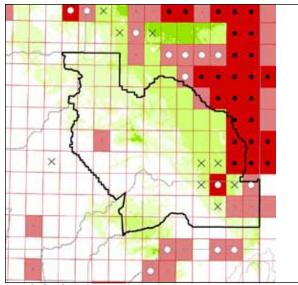
diffuse knapweed (Centaurea diffusa)



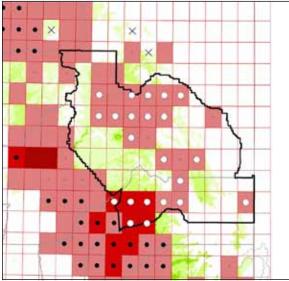
yellow starthistle (Centaurea solstitialis)



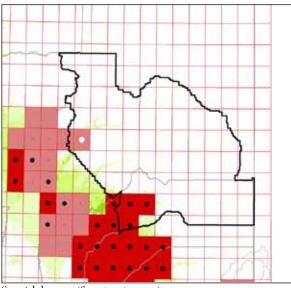
stinkwort (Dittrichia graveolens)



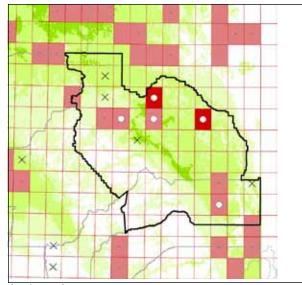
Scotch thistle (Onopordum acanthium)



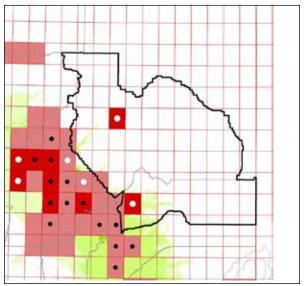
Scotch broom (Cytisus scoparius)



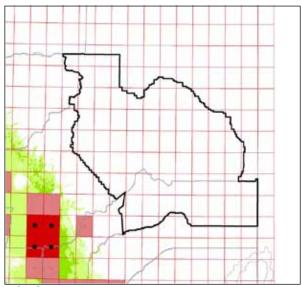
Spanish broom (Spartium junceum)



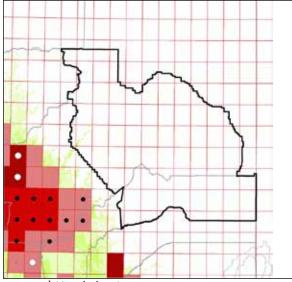
dyer's woad (Isatis tinctoria)

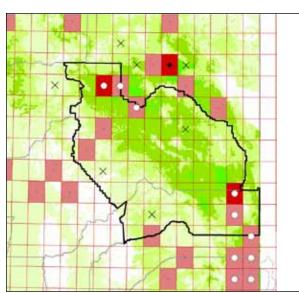


French broom (Genista monspessulana)

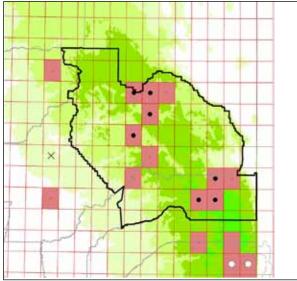


red sesbania (Sesbania punicea)





giant reed (Arundo donax)



yellow toadflax (Linaria vulgaris)

Dalmatian toadflax (*Linaria genistifolia* subsp. *dalmatica*)

Management opportunities for the Plumas/Sierra WMA

		Ор	PORTUN	NITIES		Statistics								
		7	Þ	н			U							
<u>≻</u>		ERADICATION	Containment	Surveillance	TED	% Suitable Infested	% Spreading	% Managed	% ERADICATED	% SUITABLE 2010	% SUITABLE 2050	Suitability Change		
PRIORITY	Species	DIC/	NTAII	SVEIL	% INFESTED	% Suitab Infested	PRE/	MAN	ERAD	SUIT∉ 10	SUIT ⁴	TABII		
PRIC		ER∕	Ō	SUF	1%	% S	8	% N	H %	% <u>5</u>	% SUI 2050	SUI CH/		
	FAMILY APIACEAE													
	Poison-hemlock	-	М	-	26	100	5	5	0	3	25	$\uparrow\uparrow$		
	FAMILY ASTERACEAE													
	Russian knapweed	-	н	-	13	13	18	18	0	82	98	1		
	Musk thistle	-	Н	-	21	28	39	50	0	58	13	\checkmark		
	Italian thistle & slenderflower thistle	-	-	М	2	-	50	0	0	-	-	-		
	Woolly distaff thistle	-	-	М	0	0			0	0	2	-		
	Diffuse knapweed	н	-	-	12	12	40	40	2	94	99	-		
	Spotted knapweed	-	Н	-	47	47	5	38	8	99	100	-		
	Tocalote	-	-	М	1	-	0	0	0	-	-	-		
	Yellow starthistle	-	н	-	62	62	42	53	6	81	100	↑		
	Rush skeletonweed	-	н	-	14	23	33	25	1	26	85	$\uparrow\uparrow$		
	Canada thistle	-	М	-	80	80	25	12	0	100	77	\downarrow		
	Bull thistle	-	L	-	100	100	20	9	0	93	99	-		
	Stinkwort	м	-	-	4	-	0	100	0	0	3	-		
	Ox-eye daisy	-	М	-	27	29	22	0	0	78	59	\downarrow		
	Scotch thistle	н	-	-	16	17	50	14	6	66	73	-		
	FAMILY BORAGINACEAE													
	Houndstongue	-	-	М	2	-	0	0	0	-	-	-		
	FAMILY BRASSICACEAE													
	Lens-podded white-top & hoary cress	-	М	-	23	-	60	5	1	-	-	-		
	Dyer's woad	н	-	-	11	11	11	56	5	79	67	-		
	Charlock mustard	м	-	-	1	-	100	0	0	-	-	-		
	FAMIY DIPSACACEAE													
	Common teasel &	_	М	_	13	33	55	0	0	6	0	\downarrow		
	fuller's teasel							~	-	-	-	•		
	FAMILY FABACEAE					40			-		0.2	•		
	Scotch broom French broom	-	н	-	41	49	51	66	0	53	93	<u> </u>		
	Spanish broom	-	H H	-	8 8	32 27	14 71	29 14	0	10 9	29 65	<u> </u>		
-	Black locust	-	н L		8 13		0	0	0		05	ተተ		
	Red sesbania	-		- M	13 0	-	-	-	0 0	- 0	- 0	-		
-	Gorse	-	-	 L	0	-	-	-	0	0	8	-		
	FAMILY POACEAE	_	-	L	U	-	-	-	0	U	0	-		
	Giant reed	-	-	н	0	0	0	0	0	1	8	<u>ተተ</u>		
-	Annual false-brome	-	-		1	50	0	0	0	0	8 1	小小 个个		
	Japanese brome	-	L		17	-	0	0	0	-	-	-		
	Red brome	-	M	-	34	- 66	48	0	0	- 18	- 18	-		
	Jubatagrass	-	-	M	0	-	- 40	-	0	-	-	-		
	Pampasgrass	м	-	-	2	-	0	0	0	0	- 1	-		
-	Orchardgrass	-	L	-	2 99	100	0	0	0	88	98	-		
	Orcharugrass	-	L	-	33	100	U	U	U	00	70	-		

 -											
Common velvet grass	-	М	-	19	20	0	0	0	72	97	\uparrow
Mediterranean barley	-	М	-	93	-	0	0	0	-	-	-
Hare barley	-	М	-	94	-	0	0	0	-	-	-
Italian ryegrass	-	М	-	35	100	7	0	0	3	3	-
FAMILY POLYGONACEAE											
Japanese knotweed	-	-	L	0	-	-	-	0	-	-	-
Giant knotweed	-	-	-	0	-	-	-	0	-	-	-
FAMILY SCROPHULARIACEAE											
Dalmatian toadflax	н	-	-	13	13	9	36	4	94	100	-
Yellow toadflax	-	н	-	13	13	64	0	0	95	99	-
FAMILY SIMAROUBACEAE											
Tree-of-heaven	-	М	-	11	41	100	0	0	3	31	$\uparrow\uparrow$
FAMILY SOLANACEAE											
Tree tobacco	-	-	L	0	-	-	-	0	0	0	-

Opportunities: H = high priority, M = medium, L = low

% Infested: portion of USGS quads in the area in which the species is present in wildlands

% Suitable Infested: portion of quads in the area with suitable climate that are currently infested

% Spreading: portion of infested quads in which the species is spreading

% Managed: portion of infested quads where species is under management

% Eradicated: portion of all quads in the area in which the species has been eradicated

% Suitable in 2010: portion of area with current climatic suitability of at least a level of "low" or higher

% Suitable in 2050: of area with projected 2050 climatic suitability of at least a level of "low" or higher

Suitability change:

 $\uparrow = a \, 15\% - 99\%$ increase from 2010 to 2050

 $\uparrow \uparrow =$ an increase of greater than 100%

 \downarrow = a decrease of greater than 15%