

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 far western portions of Inyo and Mono County on the eastern slope of the Sierra Nevada (see map in chapter 1). Statistics are based on all of Inyo and Mono counties.

**Eradication** is recommended for species that have limited occurrence within the Sierra portion of the WMA. Of the species examined, the following are priority eradication opportunities for Eastern Sierra WMA:

> Russian knapweed (Acroptilon repens) diffuse knapweed (Centaurea diffusa) yellow starthistle (Centaurea solstitialis) Scotch thistle (Onopordum acanthium) Spanish broom (Spartium junceum) Dalmatian toadflax (Linaria genistifolia subsp. dalmatica)

yellow toadflax (Linaria vulgaris)

tree-of-heaven (Ailanthus altissima)

rush skeletonweed (Chondrilla juncea)

**Containment** is recommended for species that are more widespread, where eradication may not be a realistic goal. The following species are priority containment opportunities:

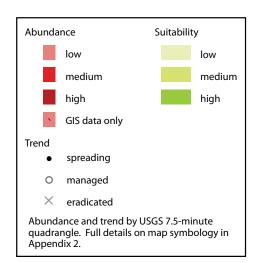
spotted knapweed (Centaurea maculosa)

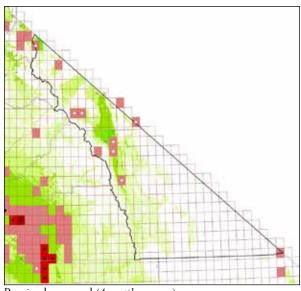
red brome (Bromus madritensis subsp rubens)

**Surveillance** is recommended to prevent spread for the following species:

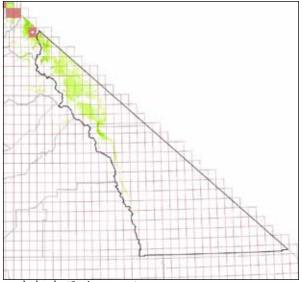
musk thistle (Carduus nutans)

dyer's woad (Isatis tinctoria)

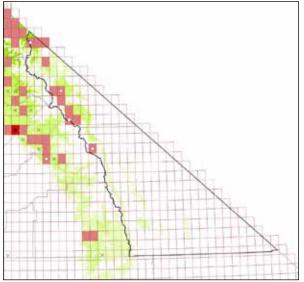




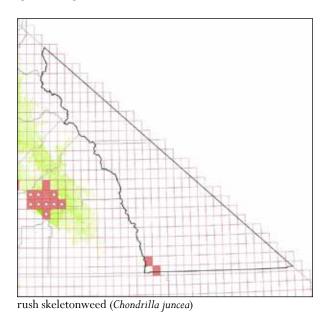
Russian knapweed (Acroptilon repens)



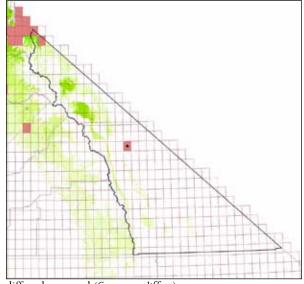
musk thistle (Carduus nutans)



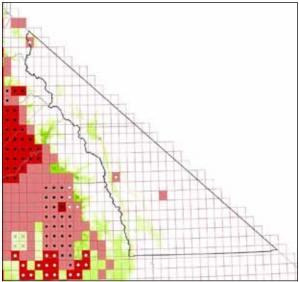
spotted knapweed (Centaurea maculosa)



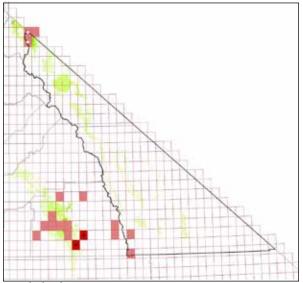
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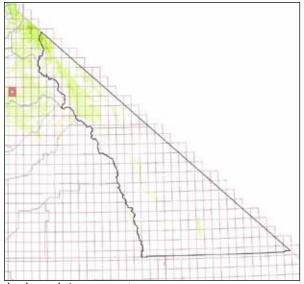
diffuse knapweed (Centaurea diffusa)



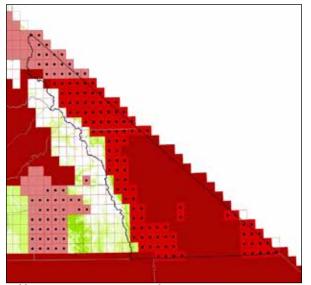
yellow starthistle (Centaurea solstitialis)



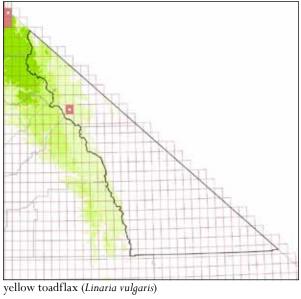
Scotch thistle (Onopordum acanthium)

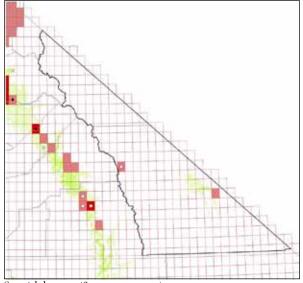


dyer's woad (Isatis tinctoria)

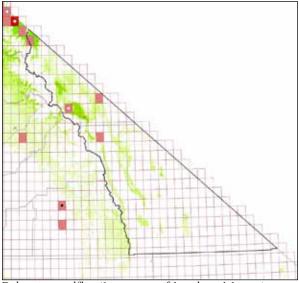


red brome (Bromus madritensis subsp. rubens)

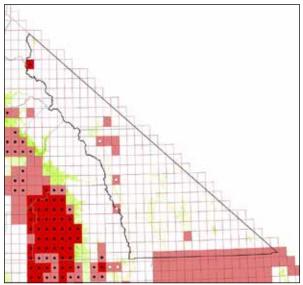




Spanish broom (Spartium junceum)



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



tree-of-heaven (Ailanthus altissima)

## Management opportunities for the Eastern Sierra WMA

		OP	PORTUN	NITIES				Stat	ISTICS			
							(7					
RITY		ERADICATION	Containment	SURVEILLANCE	% INFESTED	% Suitable Infested	% Spreading	% Managed	% ERADICATED	% SUITABLE 2010	% SUITABLE 2050	Suitability Change
Priority	Species	ERAD	CON	SURV	NI %	% Sl	% SP	W %	% EF	% SL 201(	% Sul <sup>-</sup> 2050	SUIT
	FAMILY APIACEAE						-				-	
	Poison-hemlock	-	-	М	7	100	0	95	0	0	4	-
	FAMILY ASTERACEAE											
	Russian knapweed	н	-	-	4	5	0	64	1	37	58	<b>^</b>
	Musk thistle	-	-	н	0	0	-	-	0	11	6	<b>1</b>
	Italian thistle & slenderflower thistle	-	-	L	0	_	_	_	0	-	_	_
	Woolly distaff thistle	-	-	L	0	_	-	-	0	0	0	_
	Diffuse knapweed	н	-	-	1	2	33	0	0	16	33	ተተ
	Spotted knapweed	-	н	-	4	9	0	36	0	16	35	<b>↑</b> ↑
	Tocalote	-	-	М	2	-	0	0	0	-	-	-
	Yellow starthistle	н	-	-	1	4	0	67	0	8	18	ተተ
	Rush skeletonweed	м	-	-	1	10	0	0	0	0	6	ተተ
	Canada thistle	М	-	-	4	9	0	82	0	14	16	$\uparrow$
	Bull thistle	-	L	-	95	100	4	0	0	19	27	$\uparrow$
	Stinkwort	-	-	-	0	-	-	-	0	0	0	-
	Ox-eye daisy	М	-	-	1	5	0	0	0	1	13	$\uparrow\uparrow$
	Scotch thistle	н	-	-	2	5	0	40	0	9	7	$\checkmark$
	FAMILY BORAGINACEAE											
	Houndstongue	-	-	-	0	-	-	-	0	-	-	-
	FAMILY BRASSICACEAE											
	Lens-podded white-top & hoary cress	м	-	-	3	-	0	75	0	-	-	-
	Dyer's woad	-	-	м	0	0	-	-	0	11	18	1
	Charlock mustard	-	-	-	0	-	-	-	0	-	-	-
	FAMIY DIPSACACEAE											
	Common teasel & fuller's teasel	м	-	-	1	6	0	67	0	1	7	$\uparrow\uparrow$
	FAMILY FABACEAE											
	Scotch broom	-	-	L	0	0	-	-	0	0	5	$\uparrow\uparrow$
	French broom	-	-	L	0	-	-	-	0	0	0	-
	Spanish broom	н	-	-	1	11	0	50	0	2	35	ተተ
	Black locust	-	-	L	8	-	0	0	0	-	-	-
	Red sesbania	-	-	-	0	-	-	-	0	0	0	-
	Gorse	-	-	-	0	-	-	-	0	0	0	-
	FAMILY POACEAE											
	Giant reed	М	-	-	3	33	0	0	0	2	13	$\uparrow\uparrow$
	Annual false-brome	-	-	L	0	-	-	-	0	0	0	-
	Japanese brome	-	-	L	1	-	0	0	0	-	-	-
	Red brome	-	Н	-	85	100	95	0	0	68	72	-
	Jubatagrass	-	-	M	0	-	0	0	0	-	-	-
1 1				n /1		24		~		4	~	* *
	Pampasgrass Orchardgrass	-	- L	M -	1 9	36 24	0	0	0	1 20	9 35	<u>个个</u> 个

	1										
Common velvet grass	-	М	-	1	7	0	0	0	4	35	$\uparrow\uparrow$
Mediterranean barley	-	-	М	0	-	-	-	0	-	-	-
Hare barley	-	-	М	8	-	0	0	0	-	-	-
Italian ryegrass	-	-	L	0	0	-	-	0	0	0	-
FAMILY POLYGONACEAE											
Japanese knotweed	-	-	-	0	-	-	-	0	-	-	-
Giant knotweed	-	-	-	0	-	-	-	0	-	-	-
FAMILY SCROPHULARIACEAE											
Dalmatian toadflax	н	-	-	1	3	0	25	1	20	50	ተተ
Yellow toadflax	н	-	-	0	1	0	100	0	24	35	↑
FAMILY SIMAROUBACEAE											
Tree-of-heaven	н	-	-	9	23	4	12	0	5	29	ተተ
FAMILY SOLANACEAE											
Tree tobacco	-	-	L	0	100	0	0	0	0	5	$\uparrow\uparrow$

**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:

↑ = a 15% - 99% increase from 2010 to 2050

 $\uparrow \uparrow =$  an increase of greater than 100%  $\downarrow =$  a decrease of greater than 15%