

# Humboldt WMA

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# Humboldt WMA

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- CAC's Office Forced to Focus on Another Type of Weed
- HWMA Priority Weed List
  - Background and listing process
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#### An Introduction to the HWMA

Mission Statement: "Humboldt Weed Management Area members will work cooperatively with willing landowners and managers to reduce the extent and threat of invasive weeds within their scope of authority to promote healthy agricultural and ecological ecosystems."

- Sea level to 6,956 ft. (2,120 m)
- The coast is cool year around with frequent cloud cover and fog.
- Inland areas are hot and dry in summer with snowfall common above 3,000 ft. (914.4 m) in winter.
- Annual rainfall varies dramatically across the region. From around 30 inches (760 mm) to more than 100 inches (2,500 mm).



## Cannabis: A Different Weed of Concern for the Humboldt County Agricultural Commissioner's Office

#### NUMBER OF LICENSES AND BUSINESSES BY COUNTY

NUMBER OF LICENSES NUMBER OF BUSINESSES

#### HWMA Priority/Strategic Management Weed List

- First created in 2006
- Categories and their definitions were created at inception and have not changed
  - Red Alert
  - High Priority
  - Moderate Priority
  - Watch List
  - Early Detect & Eradicate to be Conservative
  - Monitor/Research
- Updated periodically at the suggestion of WMA steering committee members
- Weed categorizations are determined by consensus of meeting participants

	Humboldt C	ounty Weed	Management Area							
	Strateg	Strategic Management Weed Lists								
	Working	Revision 20								
(All ranks)	links updated as to cu	rrent CDFA,	OR, WASH, and na	ming convent	tions)					
			California Department of Food and Agriculture,							
		Oregonia	nd Washington, and	BOLD and ALL CAPS reflect habitats						
		California	California Invasive Plant Council rankings bel priority management concern							
RED ALERT - These	species are present in WW	A area and ha	re very FEW population	s and/or very lit	nited distribution, suc					
	eradication efforts. The po									
	lized and satellite species.									
Scientific Name	Connos Name	CDFA	Quaranti: Cal IPC	HABITATS						

Scientific Name		Conmon Name		CDFA Quarantii		Cal IPC		HABITATS			
Acaena novae-zelano	diae	biddy-biddy	2	A	Oregon	WATCH		<b>VUI</b>			
Aegilops cylindrica		jointed goat	grass			WATCH		GRASS	LANDS.	Range,	Pasteres,
Arum italicum		Italian lords	-and-ladies					RIPAR	AN, VU		
Arundo donax		giant reed		в	WASH	HIGH		RIPAR	AN, des	es, VUI	
Carthamus lanatus		woolly dista	iff thistle	в		HIGH		GRASS	LANDS,	Roadsie	les
Centaurea diffusa		diffuse knap	weed	A	OR/WASH	MODERAT	ΓE	RANGE	, Roads	ide	
Centaurea stoebe ssp. micranth spot		spotted kna	pweed	A	OR/WASH	HIGH		RANGE	a and the second		
Coincya monensis		star mustare		в				COAST	AL DUN	E\$	
Dittrichia graveolens		stinkwort		в		MODERAT	ΓE	RANGE	, roadsi	des, VU	1
Egeria densa		Brazilian wa	terweed	С	OR/WASH	HIGH		AQUAT	IC/FRE	SHWATE	R
Euphorbia virgata		leafy spurge		A	OR/WASH	HIGH		RIPAR	AN, YU	I, Range	
Euphorbia lathyris		gopher week	d			WATCH		RANGE	, VUI		
Fallopia spp		Bohemian, G	iiant, & Japanese knotw	A	OR/WASH	MODERAT	ΓE	WUI, Riparian, Roadside, Pas			e, Paster
Persicaria wallichii		Himalayan knotweed		в	OR/WASH	WATCH		WUI, Riparian, Roadside, Pastur			
Limnobium laevigatum		South Ameri	ican spongeplant	A	OR	HIGH		AQUAT	IC/FRE	SHWATE	R
Lythrum salicaria		purple loose	strife	в	OR/WASH	HIGH		RIPAR	AN		
Myriophyllum aquaticum		parrot feath	er	С	OR/WASH	HIGH		AQUAT	IC/FRE	SHWATE	R
Tamarix ramosissima		salt cedar		в	OR			AQUAT	IC/FRE	SHWATE	R
Tradescantia fluminensis		small leaf sp	iderwort								
Ulex europaeus		qorse		в	OR/WASH	HIGH		COAST	AL DUN	ES, Rose	iside, Fores
Watsonia meriana		bulbil watso	nia			LIMITED		COAST	AL GRA	SSLAND	. Forest
Zostera japonica		Japanese ee	Igrasss	A		MODERAT	ΓE	BAY M	UDFLAT	s	
and the second second second second		and the second second	12.2012.00								

HIGH PRIORITY - These species are present in the WMA and are under ongoing, active management. They are impacting ag Combined efforts between members of the WMA can significantly work towards complete eradication or containment of the control, mphilic education and outreach, prevention, mapping effect.

Scientific Name	Connos Name	CDFA	Quaranti	Cal IPC	HABITATS	
Agrostis stolonifera	creeping redtop			LIMITED	RIPARIAN	
Ailanthus altissima	tree-of-heaven	C		MODERATE	RIPARIAN, ROADSIDE, WUI	
Ammophila arenaria	European beachgrass	1.4.5		HIGH	COASTAL DUNES	
Arctotheca calendula	fertile capeweed	A		MODERATE	<b>RANGE</b> , coastal dunes, pastures	
Calystegia sylvatica	morning glory				<b>WUI,</b> Riparian, Roadside, Forest	
Carduus pycnocephalus	Italian thistle	С	OR/WASH	MODERATE	RANGE	
Centaurea jacea X nigra	meadow knapweed	A	OR/WASH	MODERATE	WUI, Range	
Centaurea solstitialis	yellow starthistle	С	Oregon	HIGH	RANGE	
Cortaderia jubata/selloana	jubata (pampas) grass	в	Oregon	HIGH	COASTAL DUNES, Forest, WUI, Ro	
Cotoneaster pannosa/franchet	cotoneaster			MODERATE	<b>WUI,</b> Forest, Roadside, Riparian	
Cytisus scoparius	Scotch broom	С	OR/WASH	HIGH	RANGE, Dunes, WUI, Forest, Rdside,	
Linaria genistifolia spp. dalmat	i Dalmation toadflax	A	OR/WASH	MODERATE	RIPARIAN, dunes	
Delairea odorata	Capelivy	в	OR	HIGH	<b>WUI,</b> Riparian, Forest	
Elymus caput-medusae	medusa head	C	Oregon	HIGH	RANGE, Roadside	
Erica Iusitanica	Spanish heather	в	Oregon	LIMITED	WUI, Roadside, pastures	
uphorbia oblongata eqqleaf spurge		в	OR/WASH	LIMITED	RANGE, RIPARIAN	
Foeniculum vulgare	fennel			MODERATE	COASTAL DUNES, WUI, Roadside	
Genista monspessulana	French broom	C	OR/WASH	HIGH	RANGE, Roadsides, WUI	
Geranium lucidum	shining geranium/cranesbill	A	OR/WASH		FORESTS, RANGE, WUI, Roadside	
Geranium robertianum	herb Robert		Oregon	Evaluated; not listed	WUI, Roadsides, Pastures	
Hedera helix	English ivy		Oregon	HIGH	<b>WUI,</b> Forests, Dunes, Roadside, Riparia	
llex aquifolium	English holly			LIMITED	WUI, Forest, Dunes, Roadside	
Isatis tinctoria	Dyer's wood	в	Oregon	MODERATE	RANGE, RIPARIAN	
Lupinus arboreus	yellow bush lupine	22.2			COASTAL DUNES, Roadside	
Oxalis pes-caprae	bermuda buttercup/sourgrass			MODERATE	COASTAL DUNES, WUI	
Phragmites australis (invasive genotype) common reed		C	Oregon		SALTMARSH	
Phalaris aquatica	harding grass			MODERATE	RANGE	
Phalaris arundinaceae	reed canary grass		Oregon		RIPARIAN	
Senecio jacobaea	tansy ragwort	в	OR/WASH	LIMITED	RANGE, Roadside, WUI	
Spartina densiflora dense flowered cordgrass		в	OR/WASH	HIGH	SALTMARSH/BRACKISH	
Spartium junceum	Spanish Broom	С	OR/WASH	HIGH	RANGE, Roadside	
		100				

often packaged as part	of an overall weed abates	nent program	for a give	a project area.			100	
Scientific Name	Conmon Name	CDFA	Quarantii Cal IPC		HABITAT\$			
Acacia dealbata/Acacia spps.	silver wattle/acacia spps.			MODERATE	ROADSIDE, ford	sst,WUI		
Allium triquetrum	wild onion			Evaluated; not listed	WUI, Roadsides, F	Pastures, Ripa	rian	
Atriplex prostrata	spear leaved salt brush				SALTMARSH/8	Brackish	Strengther 1	
Briza/Bromus/Aira	annual grasses			MODERATE	COASTAL DUN	IES, Range,	Pastures	
Buddleja davidii	butterfly bush		OR/WASH	WATCH	<b>WUI</b> , Riparian, Forest, Roadside			
Centaurea melitensis	tocalote	C		MODERATE	RANGE			
Cirsium arvense	Canada thistle	в	Oregon	MODERATE	RANGE		1 1	

**RED** ALERT - These species are present in WMA area and have very FEW populations and/or very limited distribution, such that complete eradication is possible, even if it takes repeated eradication efforts. The potential for spread and agronomic, economic or wildland impact is severe. This is an early detection, rapid response action category. These localized and satellite species, once located, will be actively managed.



These are examples of Red Alert category species and, along with *Arundo dunax*, are the target of on-going collaborative eradication efforts by HWMA member organizations. If you are interested in learning more about the collaborative efforts to eradicate these species in our region, I encourage you to attend Susannah Fersons lightning talk on Wednesday afternoon.

HIGH PRIORITY - These species are present in the WMA and are under ongoing, active management. They are impacting agronomic, economic, or wildland resources. Combined efforts between members of the WMA can significantly work towards complete eradication or containment of these species. Efforts include direct weed control, public education and outreach, prevention, mapping, etc.



Tansy ragwort (Senecio jacobaea)

Cape Weed (Arctotheca calendula)

Meadow knapweed (Centaurea jacea)

Examples of species categorized as High Priority and under management by multiple WMA member organizations.



MODERATE PRIORITY - These species are known to be invasive in various environments and have known ecological impacts. Treatment of these species occurs, often packaged as part of an overall weed abatement program for a given project area.

WATCH LIST - These species are not present in the WMA but may occur in adjacent WMA's and have known vector processes where the risk of introduction is high and the potential for invasiveness is high, such that once detected, they would become red alert species. This category includes introduced species that have occurred in Humboldt County in the past, and were completely eradicated, but could potentially reappear, such as *Spartina alterniflora*.

EARLY DETECT and ERADICATE TO BE CONSERVATIVE - These species represent an early detection, rapid response category for more modestly invasive species with subtle to moderately projected ecological impacts, and are treated with an eradication response to be on the conservative side of invasive species management.

MONITOR /RESEARCH - The group is uncertain where to rank these species; they seem like they could be a problem, are showing signs and patterns of invasiveness; but are not as high a priority as others. For now, the best course of action taken for these species is to observe, map, or set up study plots to quantify its spread or patterns of invasiveness. Species in this group are also subject to current research, including experimental treatment plots.

### How is it used?

- Members use the WMA list to supplement statewide rating systems and their organization's own internal prioritization system. The value of this list is that it provides a local perspective.
- When grant funding is made available to WMAs this list is used to assist in choosing projects for submittal.
- It is a tool that prompts communication and coordination, assisting member organizations in developing shared goals and strategies to manage invasive plants.