

Table 1. Common Central Coast Rangeland Weeds

Plant Species	Herbicides Options Approved for use on California Rangelands	Rangeland Herbicides Known to be Effective
Bull thistle <i>(Cirsium vulgare)</i>	2, 4-D (Several names) Aminopyralid (Milestone) Clopyralid (Transline) Dicamba (Banvel, Clarity) Triclopyr (Garlon 3A/Garlon 4 Ultra) Chlorsulfuron (Telar) Imazapyr (Arsenal, Polaris)	Milestone, Transline, Capstone (=Milestone + Garlon), Garlon, Roundup (Kyser, unpublished) 2,4-D is often used because it is inexpensive. However, it is not as effective as other herbicides.
Bull thistle weed report:	http://wric.ucdavis.edu/information/natural%20areas/wr_C/Cirsium_vulgare.pdf	
Cocklebur (common and spiny cocklebur) <i>(Xanthium strumarium)</i> <i>(Xanthium spinosum)</i>	2, 4-D (Several names) Aminopyralid (Milestone) Clopyralid (Transline) Dicamba (Banvel, Clarity) Fluroxypyr (Vista XRT) Triclopyr (Garlon 4 Ultra, Remedy Ultra) Glyphosate (Roundup, Accord XRT II, and others) Imazapyr (Arsenal, Polaris) Sulfosulfuron (Outrider)	Aminopyralid (Milestone) Clopyralid (Transline)
Cocklebur weed report :	http://wric.ucdavis.edu/information/natural%20areas/wr_X/Xanthium_spinosum-strumarium.pdf	
Fiddleneck (Menzies and coast fiddleneck) <i>(Amsinckia menziesii)</i> <i>(Amsinckia menziesii var. intermedia)</i>	Aminopyralid (Milestone) Glyphosate (Roundup, Accord XRT II, and others) Chlorsulfuron (Telar) Imazapyr (Arsenal, Polaris) Sulfosulfuron (Outrider) Hexazinone (Velpar DF)	Aminopyralid (Milestone) Chlorsulfuron (Telar)
Fiddleneck weed report:	http://wric.ucdavis.edu/information/natural%20areas/wr_A/Amsinckia.pdf	

Plant Species	Herbicides Options Approved for use on California Rangelands	Rangeland Herbicides Known to be Effective
Foxtail (Mediterranean and hare barley) <i>(Hordeum marinum ssp. gussonianum)</i> <i>(Hordeum murinum ssp. leporinum)</i>	Glyphosate (Roundup, Accord XRT II, and others) Imazapyr (Arsenal, Polaris) Rimsulfuron (Matrix) Sulfometuron + chlorsulfuron (Landmark XP) Sulfosulfuron (Outrider) Hexazinone (Velpar L)	Glyphosate (Roundup, Accord XRT II, and others) is effective, but is nonselective, so will kill most other plants as well. If glyphosate is to be used, reseed to reduce bare ground and encroachment of other weed species. Rimsulfuron (Matrix) will likely control control foxtail, based on limited data.
Foxtail weed report:	http://wric.ucdavis.edu/information/natural%20areas/wr_H/Hordeum_marinum-murinum.pdf	
French broom <i>(Genista monspessulana)</i>	Triclopyr (Garlon 3A, Garlon 4 Ultra, Pathfinder II) Aminopyralid + triclopyr (Capstone) Triclopyr + 2,4-D (Crossbow) Glyphosate (Roundup, Accord XRT II, and others) Imazapyr (Arsenal, Polaris)	Triclopyr (Garlon 3A, Garlon 4 Ultra, Pathfinder II) Glyphosate (Roundup, Accord XRT II, and others) is effective, but resprouts will need to be controlled. Glyphosate is nonselective, so will kill most other plants as well. If glyphosate is to be used, reseed to reduce bare ground and encroachment of other weed species.
French broom weed report:	http://wric.ucdavis.edu/information/natural%20areas/wr_G/Genista.pdf	
Goatgrass (jointed and barb goatgrass) <i>(Aegilops cylindrica)</i> <i>(Aegilops triuncialis)</i>	Glyphosate (Roundup, Accord XRT II, and others) Sulfometuron + chlorsulfuron (Landmark XP)	Research is currently being conducted to identify most effective options for goat grass.
Goatgrass weed report:	http://wric.ucdavis.edu/information/natural%20areas/wr_A/Aegilops_cylindrica-triuncialis.pdf	

Plant Species	Herbicides Options Approved for use on California Rangelands	Rangeland Herbicides Known to be Effective
Himalaya blackberry <i>(Rubus armeniacus)</i>	Dicamba (Banvel, Clarity) Fluroxypyr (Vista XRT) Triclopyr (Garlon 3A, Garlon 4 Ultra, Pathfinder II) Aminopyralid + triclopyr (Capstone) Glyphosate (Roundup/Accord XRT II, and others) Hexazinone (Velpar L) Tebuthiuron (Spike)	Triclopyr (Garlon 3A, Garlon 4 Ultra, Pathfinder II) can be effective on small individuals. Glyphosate (Roundup/Accord XRT II, and others) can be effective, but may require retreatment.
Himalaya blackberry weed report:	http://wric.ucdavis.edu/information/natural%20areas/wr_R/Rubus.pdf	
Italian thistle <i>(Carduus pycnocephalus)</i>	2, 4-D (Several names) Aminopyralid (Milestone) Aminopyralid + 2,4-D (Forefront HL) Aminopyralid + triclopyr (Capstone) Clopyralid (Transline) Dicamba (Banvel, Clarity) Fluroxypyr (Vista XRT) Triclopyr (Garlon 3A, Garlon 4 Ultra) Triclopyr + 2,4-D (Crossbow) Glyphosate (Roundup, Accord XRT II, and others) Chlorsulfuron (Telar) Imazapyr (Arsenal, Polaris) Hexazinone (Velpar L)	Aminopyralid (Milestone) is highly effective on thistles. Milestone, Transline, Capstone (=Milestone + Garlon), Garlon, Roundup (Kyser, unpublished) 2,4-D is often used because it is inexpensive. However, it is not as effective as other herbicides.
Italian thistle weed report:	http://wric.ucdavis.edu/information/natural%20areas/wr_C/Carduus_acanthoides-nutans-pycnocephalus-tenuiflorus.pdf	

Plant Species	Herbicides Options Approved for use on California Rangelands	Rangeland Herbicides Known to be Effective
Medusahead (<i>Taeniatherum caput-medusae</i>)	Aminopyralid (Milestone) Glyphosate (Roundup, Accord XRT II, and others) Rimsulfuron (Matrix) Landmark XP	Aminopyralid (Milestone) provided up to 90% control of medusahead based on research in the Central Valley.
Medusahead weed report:	http://wric.ucdavis.edu/information/natural%20areas/wr_T/Taeniatherum.pdf	
Milk thistle (<i>Silybum marianum</i>)	2, 4-D (Several names) Aminopyralid (Milestone) Clopyralid (Transline) Dicamba (Banvel, Clarity) Chlorsulfuron (Telar) Rimsulfuron (Matrix)	Milestone, Transline, Capstone (=Milestone + Garlon), Garlon, Roundup (Kyser, unpublished)
Milk thistle weed report:	http://wric.ucdavis.edu/information/natural%20areas/wr_S/Silybum.pdf	
Purple starthistle (<i>Centaurea calcitrapa</i>)	2, 4-D (Several names) Aminopyralid (Milestone) Clopyralid (Transline) Dicamba (Banvel, Clarity) Glyphosate (Roundup, Accord XRT II, and others) Hexazinone (Velpar L)	Milestone, Transline, Capstone (=Milestone + Garlon), Garlon, Roundup (Kyser, unpublished)
Purple starthistle weed report:	http://wric.ucdavis.edu/information/natural%20areas/wr_C/Centaurea_calcitrapa-iberica.pdf	

Plant Species	Herbicides Options Approved for use on California Rangelands	Rangeland Herbicides Known to be Effective
Tumbleweed (Russian thistle) <i>(Salsola tragus)</i>	2, 4-D (Several Names) Aminocyclopyrachlor + Aminopyralid (Milestone) Dicamba (Banvel, Clarity) Triclopyr (Garlon 3A, Garlon 4 Ultra) Glyphosate (Roundup, Accord XRT II, and others) Chlorsulfuron (Telar) Imazapyr (Arsenal, Polaris) Hexazinone (Velpar L)	Research is currently being conducted to identify most effective options for tumbleweed.
Tumbleweed weed report:	http://wric.ucdavis.edu/information/crop/natural%20areas/wr_S/Salsola_paulsenii-tragus.pdf	
Whitetop/hell weed <i>(Cardaria draba)</i>	2, 4-D (Several names) Dicamba + 2, 4-D Glyphosate (Roundup, Accord XRT II, and others) Chlorsulfuron (Telar) Imazapyr (Arsenal, Polaris)	Chlorsulfuron (Telar) is one of the best control options for plants in the <i>Cardaria</i> genus. 2,4-D is often used because it is inexpensive. However, it is not as effective as other herbicides.
Whitetop weed report:	http://wric.ucdavis.edu/information/natural%20areas/wr_C/Cardaria_chalepensis-draba-pubescens.pdf	
Yellow starthistle <i>(Centaurea solstitialis)</i>	2, 4-D (Several names) Aminopyralid (Milestone) Clopyralid (Transline) Dicamba (Banvel, Clarity) Triclopyr (Garlon 3A, Garlon 4 Ultra) Glyphosate (Roundup, Accord XRT II, and others) Chlorsulfuron (Telar) Imazapyr (Arsenal, Polaris) Hexazinone (Velpar L)	Aminopyralid (Milestone) is the best option to control yellow starthistle. Clopyralid (Transline) is also very effective. Glyphosate (Roundup, Accord XRT II, and others) is the best option in the late season.
Yellow starthistle weed report:	http://wric.ucdavis.edu/information/natural%20areas/wr_C/Centaurea_solstitialis.pdf	

Table 1. Common Central Coast Rangeland Weeds was updated by Devii Rao, drorao@ucanr.edu on 8/1/2017. All information in this table is from DiTomaso, Kyser et al. 2013, unless noted otherwise.

References

DiTomaso, J.M., G.B. Kyser et al. 2013. Weed Control in Natural Areas in the Western United States. Weed Research and Information Center, University of California.

Kyser, G. Unpublished. Invasive Thistles of Bay Area Counties & Herbicides for Controlling Thistles Handout.

Disclaimer: To simplify information, trade names of products have been used. No endorsement of named products is intended, nor is criticism implied of similar products not mentioned. The herbicide label should be followed precisely at all times, as well as any other regulations regarding the use and application of pesticides. Failure to follow the label can result in reduced effectiveness, personal injury, environmental damages and/or inefficient use of resources. Not following the label instructions and regulations is illegal. Pesticide registrations change frequently and you are responsible for making sure the pesticide you are using is still registered.