

Noxious Weed Control Laws



- Rule R68-9 (Utah Noxious Weed Act)
- Cache County Ordinance No. 2015-06

Cachecounty.org/vegetationmanagement/



Statistics



- 12% US crop production destroyed annually
- Exceeds \$20 Billion crop loss in US
- \$3 Billion spent annually on Herbicides

"Prevention is the best weed control method"



Three Key Facts to Weed Control



- Don't uncover a worse problem then what you already had.
- Fastest solution is not always the best solution.
- Perennial grasses are one of the best noxious weed competitors.







Name Change



Old Name:

Cache County Weed Division

New Name:

Cache County Vegetation Management Division

Cache County Vegetation Management Division Team



- Jake Forsgren Cache County Noxious Weed Supervisor
- Alex Wilhelm Municipalities/Non Grant Operation Assistant
- Brad Ashcroft Grants/S.P. Operation Assistant
- 14 Seasonal Technicians







Cache County Noxious Weed Program



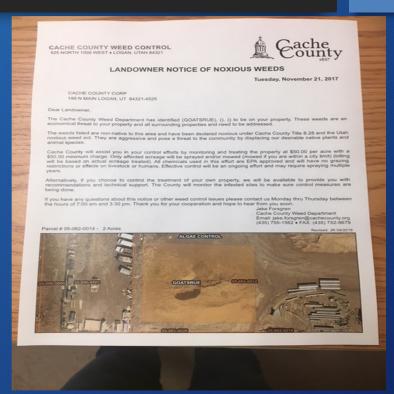
- Grants (EDRR, UWSA, Phragmities, and Goatsrue)
- · Non Grant
- Waterways
- Vacant Lots
- Municipalities
- County Roadsides/Right-ofways
- Railways
- Special Projects



2022 Landowner Notification Letters



- 2411 Total Sent
- 908 County Treated
- 995 Owner Sprayed
- 508 Monitored



2022 Cache County Year End Totals



16,000 Total Acres Monitored

4,017 Total Acres Treated

2,462 Total Infested Parcels Identified

2,411 Total Landowners Notified





Basic Plant Life Cycles



- Annuals
- Biennials
- Perennials



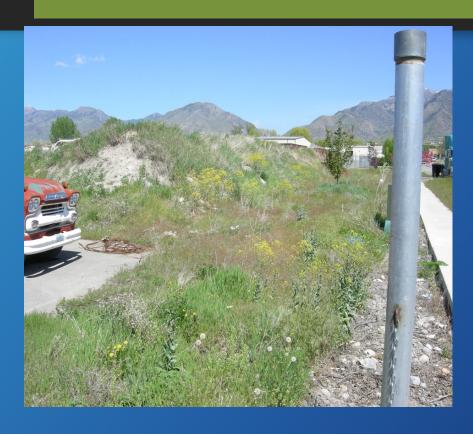
Areas of Concern





Vacant Lots







Dry Farms





Along Waterways

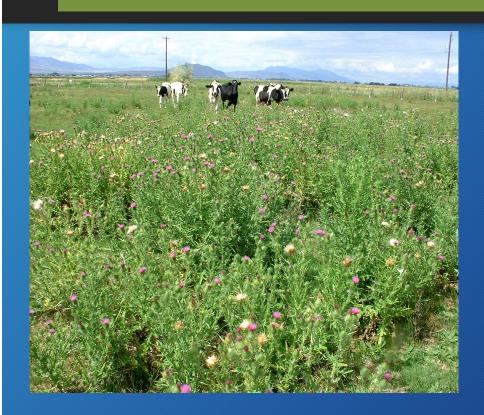






Pastures/Irrigated Fields

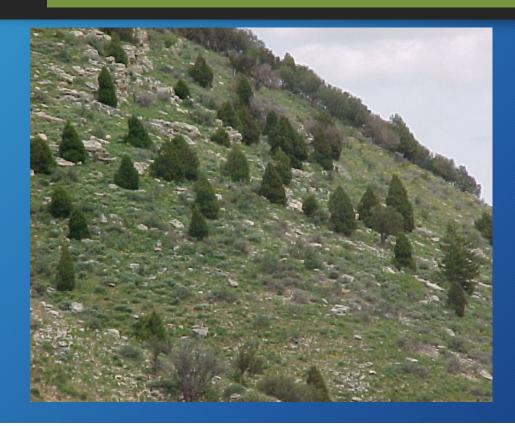


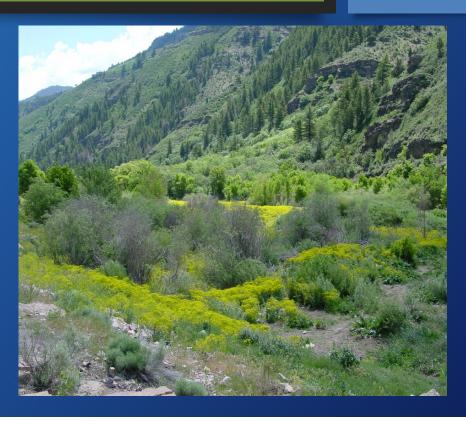




Rangelands







Landscaping









Right of Ways







Utah Declared Noxious Weeds



1A EDRR Watch List

- African Rue
- · Common Crupina
- Malta Starthistle
- Mediterranean Sage
- Plumeless Thistle
- Small Bugloss
- Spring Milletgrass
- Syria Beancaper

1B EDRR

- Camelthorn
- Common St. Johnswort
- Cutleaf Vipergrass
- Elongated Mustard
- Garlic Mustard
- Giant Reed
- Goatsrue
- Japanese Knotweed
- Oxeye Daisy
- Purple Starthistle
- · Sahara Mustard
- Viper's Bugloss
- Ventenata

Utah Declared Noxious Weeds cont.

Cache County

2 Control

- Black Henbane
- Dalmation Toadflax
- Diffuse Knapweed
- · Dyers Woad
- Leafy Spurge
- Medusahead Rye
- Purple Loosestrife
- Rush Skeletonweed
- Spotted Knapweed
- Squarrose Knapweed
- Yellow Starthistle
- Yellow Toadflax

3 Containment

- Bermudagrass
- Quackgrass
- · Russian Knapweed
- Saltcedar
- Scotch Thistle
- Puncturevine
- Canada Thistle
- Field Bindweed
- Hoary Cress
- Houndstongue
- Jointed Goatgrass
- Musk Thistle
 - **Perennial Pepperweed**
- · Perennial Sorghums
- Phragmities
- Poison Hemlock

Utah Declared Noxious Weeds cont.



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Utah Declared Noxious Weeds Cont.



4 Prohibited

- Congongrass
- Damesrocket
- Myrtle Spurge
- Russian Olive
- Scotch Broom

2022 Prioritized Cache County Noxious Weed List



- Monitoring and education
- Help track and achieve possible eradication.
- Help with application process for Grants.
- Help to plan upcoming year projects.
- Save time and valuable resources, treating weeds that are a priority.

www.cachecounty.org/vegetationmanagement/



What does EDRR mean?



Why Do We Care?

Weed Alert Early Detection Rapid Response



Cache County EDRR

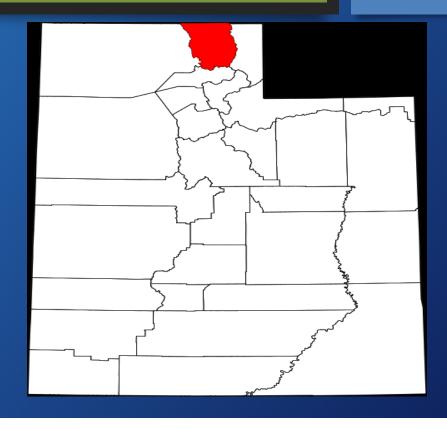
- Vipers Bugloss
- Elongated Mustard
- · Giant Reed
- · Rush Skeletonweed
- Ventenata
- Japanese Knotweed
- Dalmation Toadflax
- Oxeye Daisy
- Black Henbane
- St. Johnswort
- · Spotted Knapweed
- · Diffuse Knapweed
- Yellow Starthistle



2019 Cache County EDRR Parcel Infestations



 Vipers Bugloss 	2	
 Elongated Mustard 	42	
 Giant Reed 	1	
 Rush Skeletonweed 	15	
 Ventenata 	10	
 Japanese Knotweed 	7	
 Dalmation Toadflax 	8	
 Oxeye Daisy 	20	
 Black Henbane 	35	
 Com. St. Johnswort 	15	
 Spotted Knapweed 	122	
 Yellow Starthistle 	43	
 Diffuse Knapweed 	10	



Vipers Bugloss

- Short-lived perennial
- Stems and leaves are rough and hairy.
- Flowers funnel shaped bright blue
- Each flower produces 4 seeds that can be viable for 3 years.
- Toxic to horses and cattle.
- A host to several crop diseases
- Deep taproot



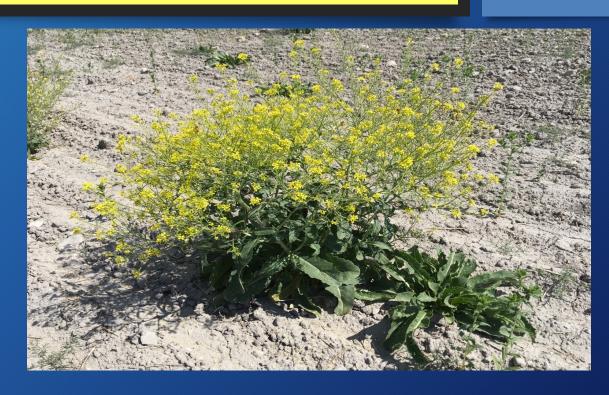
Elongated Mustard



- Short-lived perennial
- Grows 3 feet tall
- Lower leaves are flattened and slightly toothed margins.
- · Bright yellow flowers in Mid-summer.
- Plants produces abundant amounts of seed that are dispersed by wind, and become "sticky" with wet conditions.
- · Thrives in Dryland settings.
- Cache and Box Elder is the only counties in the state

15 parcels county wide

Located in Newton, Clarkston, Petersbero areas.



Comparison













Giant Reed

- Perennial
- Rhizomatous root system
- Wetlands and disturbed sites
- Fire hazard
- Can be propagated from stem cuttings
- Do not mow or till, will encourage new growth
- Often mistaken for Phragmities.
- Eradicated 2022

Was located in Logan.





Comparison







Rush Skeletonweed

- · Deep tap-rooted perennial.
- · Stems are nearly leafless.
- · Stems are covered with prickly hairs.
- Plant parts extrude milky sap when damaged.
- Root fragments can generate new plants.
- Yellow Flowers
- Individual plants can produce 20,000 seeds each.
- 7 parcels countywide

Small infestations that are located in: Clarkston, Cache Junction, Smithfield, and Mt. Sterling.



Comparison



Rush Skeletonweed



Chickory



Ventenata

- Winter annual grass.
- Stems have reddish-black joints.
- Seed heads are produced in loose, branching clusters.
- Seeds resemble wild oat seeds.
- Found in grain crops, rangeland, and on disturbed sites.
- Found in Cache and Box Elder Counties.
- 10 parcels

Located in Mt. Sterling and Hardware Ranch Areas.









Oxeye Daisy

- Perennial
- Rhizomatous root system.
- Leaves are lance-shaped with coarse teeth.
- Flowers 1-2 inches in diameter, and usually appear from June to August.
- Can give a "off-flavor" in milk If consumed by dairy cattle.
- Thrives in meadows and along stream beds.
- 20 parcels countywide.

Located in: Wellsville, Hyrum and Paradise. (along the Little Bear River)



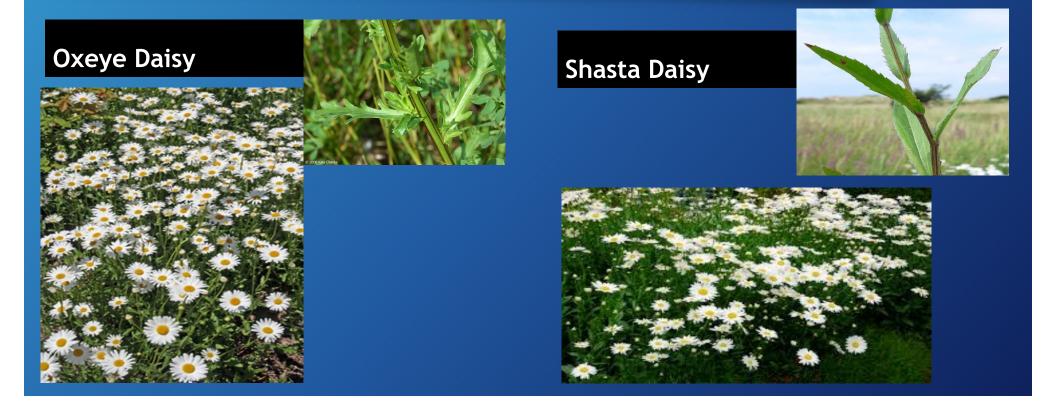






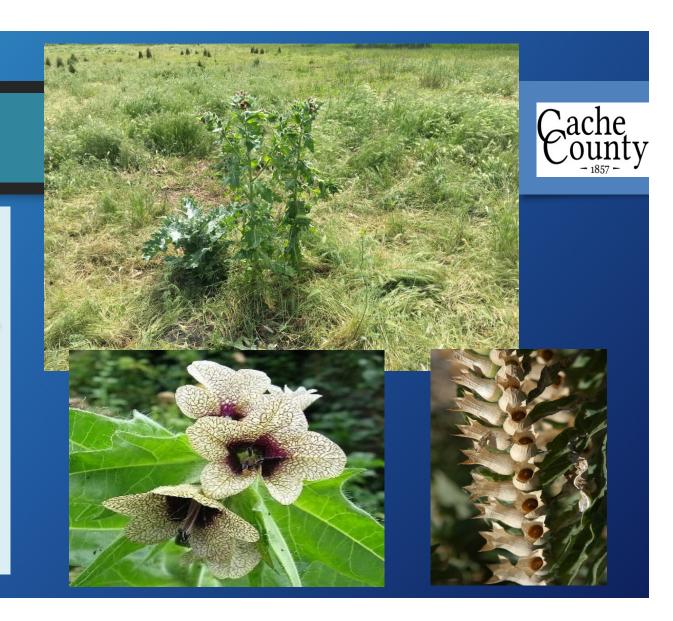
Comparison





Black Henbane

- Biennial
- Grows along fence lines and wasted areas.
- Pointed lobes and prominent veins.
- Flowers off-white with purple centers.
- Pineapple shaped seed pods.
- Hundreds of seeds can be produced from one plant.
- Poisonous to both animals and humans.
- 35 parcels countywide
- Located in Richmond, Logan, College ward, Young ward, and Bear Lake Summit.



Common St. Johnswort

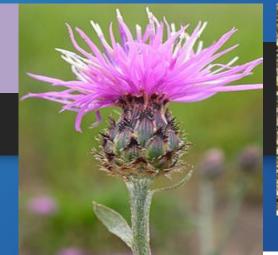
- · Thrives in sandy, gravely soils.
- Spreads by seeds and short runners.
- Stems are woody at the base.
- Leaves have prominent veins and transparent dots.
- Flowers bright yellow with five petals.
- If white haired animals ingest it they will lose weight when exposed to sunlight, and develop skin irritations.
- 15 parcels countywide
- Found in Smithfield area



Spotted Knapweed

- Biennial /short lived perennial
- Taproot
- Basil leaves
- Flowers are purple, with black spots on the bracts.
- Competitive for soil moisture and nutrients
- Releases chemical substance into soil to inhibit surrounding vegetation.
- Released Bio-control
- 122 parcels countywide

Located in High Creek, Richmond, Mendon, Millville, South Canyon, and Hardware Ranch











Comparison



Spotted Knapweed



Wild Aster



Diffuse Knapweed

- Annual/short lived perennial
- Leaves have divided lobes
- Flowers white/rose color
- · Straight toothed spines on flower bracts.
- Releases chemical substance into soil to inhibit surrounding vegetation.
- Competitive for soil moisture and nutrients

10 Parcels Countywide

Located in Paradise Area











Yellow Starthistle

- Annual
- Tap root
- Found in waste areas and roadsides.
- · Basil leaves that are sharply pointed.
- Flower heads are yellow, located on ends of branches.
- Flower heads are armed with sharp thorns.
- Released Bio-control
- 43 parcels countywide

Located in Paradise, Richmond, and Trenton.













Cache County Vegetation Management Division

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