



## HIGHLAND PARK 3 ASSOCIATION, INC.

7075 Campus Drive, Suite 200  
Colorado Springs, CO. 80920  
(719) 598-3198/fax 598-2337  
Email: [Info@HP3A.org](mailto:Info@HP3A.org)

July 8, 2020

Greetings:

Welcome Covid-19 inmates! We thought this might be a good time for an update on your Highland Park community.

**Homes.** We currently have eight homes completed or under construction (with a nice model home on Lot 129), with more slated to submit plans in the near term. Please be careful when you are out in the subdivision, as past experience has shown that some people drive a little too quickly. We often ask builders to remind their subcontractors to take it slow through the residential area. Quite a few people walk on Lochwinnoch Lane, and we don't want accidents.

**Architectural Review.** While the covenants provide that we have thirty days for plan review, the architectural control committee (ACC) tries to get plans responded to within a couple of weeks, but it often depends on how busy we are and the availability of the committee members (we are volunteers who have lives, too). All three must act; I cannot act unilaterally, being only one of three members.

As a reminder, we need a paper set of plans delivered to the office (address above), AND we need a set of electronic plans. It will speed things up if you include color chips and material samples with your application, rather than just a name or color number which requires the architectural committee to go look them up to find out exactly what color they are, extending plan review time. The house should be staked out on the lot for the site visit by the ACC. As always, if you have questions about a particular location, contact us and we can meet you out there for a preliminary reading on the proposed site.

**Lot sales** have been good this year, with only 10 of 39 remaining (and three of those are under contract). We think there is a reasonable expectation that we will sell out this year, so if you have friends you would like for neighbors, encourage them to contact us. Based on the development plans being proposed on the east side of Vollmer, we continue to believe these will be the last of the close-in large estate sized homesites in the area.

**Homeowner Association Turnover.** We have been asked when the property owners would assume responsibility for the homeowners' association; the answer is, we are not sure. It would be good to have some residents in the neighborhood before turning it over, as having resident owners keeping an eye on things is very helpful, however once we sell out, we can no longer operate the Association and must turn it over to the owners. We are currently planning on holding the organizational meeting of the Association in the fall of 2020 to accomplish that goal, so if you are interested in participating, let us know. We need a minimum of three directors (I'm willing to continue on as one of them unless we sell out all the lots, in which case I cannot).

**Mailboxes.** When you are ready for a mailbox key, you must go to the U.S. Post Office in Briargate located at 8585 Criterion Drive. We were told that you should ask for Nancy, who we are told "has the keys in the back" for our neighborhood box unit. Make sure that you have title information (a copy of your deed) and a photo I.D.

**Weeds.** We received the annual County weed control (copy attached) letter last week. Some of you may have gotten individual letters from the County (Lots 145 and 156 were included on the County letter to Little London, but are already sold, and we note that Lot 145 has mowed, so we will report that to the County). We all have an obligation to each other to try to control noxious weeds in the community. Even if your lot is not on the list, you may want to check it for weeds.

Little London is in the process of mowing the lots it controls. Little London is also planning on mowing lots that are under contract, but if we don't get to yours before closing, you may feel free to do it yourself or hire it done. Following are names of a few folks that we found in 2019 that you can arrange with them to mow your lawn, if that is how you choose to deal with any weeds on your property.

1. Fields of Green 551-1114
2. Big Green Mowing Machine Aaron (719) 641-2617
3. J&S Mowing (719) 338-3443
4. CJ (719) 351-4290
5. Turf Surgeons Landscaping (719) 440-4887
6. TCAM [Teague Sawyer] (720) 938-2216

**Water Meters.** As a reminder for those building, your builder must install a water flow meter. Please let me know when yours is installed so the Association can get a baseline reading. We will be reading them three times per year as required by the State. The next reading will be on October 31. Your well permit requires you to maintain records of your diversions of water, so you might want to just put a little chart in your mechanical room by your meter. A sample is attached at the end of this letter.

**Erosion Control.** Little London replaced a lot of the erosion control straw bales last Fall, and we wish to keep them in place. The County is slated to assume full operation of the roads and ditches this month, as Little London's warranty period is ending. However, we want to maintain the community, so if you see significant erosion occurring, please call Doug Barber at (719) 338-3053, so we can address it.

We are sending this newsletter electronically, and hope that it is received well in this format. We thought perhaps we could save some Association money on postage. We are also sending the newsletter to those who are under contract, to help engage them in the community. That's it for now. Have a great rest of your year!

Sincerely,  
Highland Park 3 Association, Inc.



Douglas H. Barber-Acting President

## Sample Record-Keeping Form for Diversions from Your Water Well

**Date meter was installed** \_\_\_\_\_ . **Initial reading on meter when installed** \_\_\_\_\_ .

| <b>Date</b> (please read ON the date below and email your reading to info@hp3a.org.) | <b>Meter Reading</b> (all digits, including fixed or painted zeroes) |
|--|--|
| 10/31/2020   |  |
| 12/1/2020  |  |
| 2/28/29/2021   |  |
| 10/31/2021   |  |
| 12/1/2021  |  |
| 2/28/29/2022   |  |
| 10/31/2022   |  |
| 12/1/2022  |  |
| 2/28/29/2023   |  |
| 10/31/2023   |  |
| 12/1/2023  |  |
| 2/28/29/2024   |  |
| 10/31/2024   |  |
| 12/1/2024  |  |
| 2/28/29/2025   |  |
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| 2/28/29/2025   |  |
| 10/31/2025   |  |
| 12/1/2025  |  |
| 2/28/29/2026   |  |
| 10/31/2026   |  |
| 12/1/2026  |  |
| 2/28/29/2027   |  |
| 10/31/2027   |  |
| 12/1/2027  |  |
| 2/28/29/2028   |  |



## COMMUNITY SERVICES DEPARTMENT

PARK OPERATIONS ~ COMMUNITY OUTREACH  
ENVIRONMENTAL ~ VETERANS ~ RECREATION/CULTURAL SERVICES

June 29, 2020

Little London LLC  
7075 Campus Dr. Ste 200  
Colorado Springs, CO 80920

Dear Little London LLC,

The Colorado Department of Agriculture has targeted certain noxious weeds for control and/or eradication: those that negatively affect the environmentally sound management of native or agricultural ecosystems by being aggressively invasive, poisonous to animals, or carriers of detrimental insects, diseases, or parasites. The Colorado Noxious Weed Act (Colorado Revised Statute 35-5.5-101, et seq.) and the El Paso County Weed Management Plan (Resolution No. 14-97 dated March 18, 2014) classifies noxious weed species into three categories (Lists A, B, and C) which signify the severity of the weed's impact and how aggressively it must be controlled and/or eradicated. CRS 35-5.5-108.5(5)(a) requires the local governing body to notify the affected landowner by certified mail.

Diffuse knapweed, Scotch thistle, and Canada thistle, all List B species, have been seen from a public right-of-way, on multiple properties (see attached list). As the property owner, you are required to eradicate all Scotch thistle plants and contain and suppress all Diffuse knapweed and Canada thistle plants on your properties. See the enclosed Colorado Department of Agriculture fact sheets for more information on the identification and control of noxious weeds.

Please fill out and return the enclosed stamped postcard within 10 days of receipt of this letter. Thank you for your cooperation in controlling the invasive plants on your property. If you have any questions or concerns, or need assistance in identifying or creating a management plan for noxious weeds please call the El Paso County Environmental Division at (719) 520-7839.

Sincerely,

Kathy Andrew, Manager  
El Paso County Environmental Division



| LOT | Property Address   | Parcel No. | Weed             | List | Action               | Weed             | List | Action               | Weed | List | Action |
|-----|--|------------|------------------|------|----------------------|------------------|------|----------------------|------|------|--------|
|     | Poco Rd. Colorado Springs, CO 80908                      | 5229402006 | Diffuse knapweed | B    | Contain and Suppress |                  |      |                      |      |      |        |
| 154 | 7729 Rannoch Moor Way Colorado Springs, CO 80908         | 5229403001 | Scotch thistle   | B    | Eradicate            | Diffuse knapweed | B    | Contain and Suppress |      |      |        |
| 148 | 7730 Rannoch Moor Way Colorado Springs, CO 80908         | 5229402004 | Scotch thistle   | B    | Eradicate            | Diffuse knapweed | B    | Contain and Suppress |      |      |        |
| 150 | 7834 Rannoch Moor Way Colorado Springs, CO 80908<br>SOLD | 5228005024 | Diffuse knapweed | B    | Contain and Suppress |                  |      |                      |      |      |        |
| 157 | 7885 Rannoch Moor Way Colorado Springs, CO 80908         | 5228005029 | Scotch thistle   | B    | Eradicate            | Diffuse knapweed | B    | Contain and Suppress |      |      |        |
| 151 | 7886 Rannoch Moor Way Colorado Springs, CO 80908         | 5228005025 | Diffuse knapweed | B    | Contain and Suppress |                  |      |                      |      |      |        |
| 123 | 7831 Bannockburn Trl. Colorado Springs, CO 80908         | 5228008003 | Canada thistle   | B    | Contain and Suppress | Diffuse knapweed | B    | Contain and Suppress |      |      |        |
| 124 | 7871 Bannockburn Trl. Colorado Springs, CO 80908         | 5228008004 | Diffuse knapweed | B    | Contain and Suppress |                  |      |                      |      |      |        |
| 127 | 7792 Bannockburn Trl. Colorado Springs, CO 80908         | 5228008007 | Diffuse knapweed | B    | Contain and Suppress |                  |      |                      |      |      |        |
| 128 | 7752 Bannockburn Trl. Colorado Springs, CO 80908         | 5228008008 | Canada thistle   | B    | Contain and Suppress | Diffuse knapweed | B    | Contain and Suppress |      |      |        |

Poco Road lot is not in Highland Park

# Diffuse knapweed

Colorado Department of  
Agriculture

305 Interlocken Pkwy  
Broomfield, CO 80021

(303) 869-9030  
weeds@state.co.us



## Key ID Points

1. Floral bracts have yellow spines with teeth appearing as a comb and a distinct terminal spine.
2. Flowers are white or lavender.
3. Seedlings have finely divided leaves

Updated on:  
07/2015

## Diffuse knapweed Identification and Management



### Identification and Impacts

Diffuse knapweed (*Centaurea diffusa*) is a non-native biennial forb that reproduces solely by seed. A biennial is a plant that completes its lifecycle within two years. During the first year of growth, diffuse knapweed appears as a rosette in spring or fall. During the second year in mid to late spring – the stem bolts, flowers, sets seed, and the plant dies. Once the plant dries up, it breaks off at ground level and becomes a tumbleweed which disperses the still viable seeds over long distances. A prolific seed producer, diffuse knapweed can produce up to 18,000 seeds per plant. Therefore, the key to managing this plant is to prevent seed production. Diffuse knapweed can grow 1 to 3 feet tall, and is diffusely branched above ground. This gives the plant a ball-shaped appearance and tumble-weed mobility when broken off. Leaves are small, and are reduced in size near the flowering heads. Flowers are mostly white, sometimes purple, urn-shaped, and are located on each branch tip. Bracts that enclose the flowerheads are divided like the teeth of a comb, and are tipped with a distinct slender spine. Upon drying, the bracts become rough, rendering them injurious to the touch. Flowers bloom July through August. Seed set usually occurs by mid-August.

Diffuse knapweed tends to invade disturbed, overgrazed areas. Other habitats may also include rangeland, roadsides, riparian areas, and trails. It is a tough competitor

on dry sites and rapidly invades and dominates disturbed areas. Once established, diffuse knapweed outcompetes and reduces the quantity of desirable native species such as perennial grasses. As a result, biodiversity and land values are reduced, and soil erosion is increased.

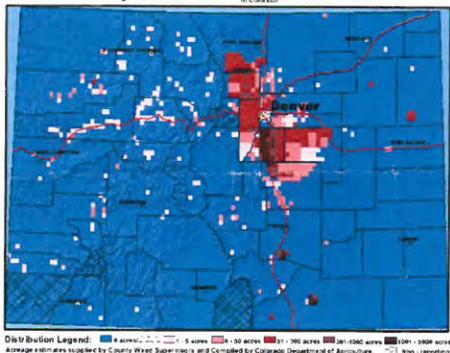
The key to effective control of Diffuse knapweed is to prevent the plant from flowering and going to seed. An integrated weed management approach dealing with Diffuse knapweed is highly recommended. There are many options of mechanical, chemical, and biological controls, available. Details on the back of this sheet can help to create a management plan compatible with your site ecology.

Diffuse knapweed is designated as a "List B" species on the Colorado Noxious Weed Act. It is required to be either eradicated, contained, or suppressed depending on the local infestations. For more information, visit [www.colorado.gov/ag/csd](http://www.colorado.gov/ag/csd) and click on the Noxious Weed Program link or call the State Weed Coordinator at the Colorado Department of Agriculture, Conservation Services Division at 303-239-4100.

Diffuse knapweed

2008 Centaurea Survey  
Distribution and Abundance  
in Colorado

130,443+ Infested Acres



Plant photo, top © Kelly Uhing. Infestation map above, Crystal Andrews. Flower photo © Cindy Roche. Rosette and leaf photos © Dale Swenarton.

*Centaurea diffusa*

**CULTURAL**

Establishment of selected grasses can be an effective cultural control of diffuse knapweed. Contact your local Natural Resources Conservation Service for seed mix recommendations. Maintain healthy pastures and prevent bare spots caused by overgrazing. Bareground is prime habitat for weed invasions.

**BIOLOGICAL**

The seedhead weevil (*Larinus minutus*) and the root weevil fly (*Cyphocleonus achates*) provide fair to good control when used in combination with each other. Expect to wait at least 3 to 5 years for the insects to establish and achieve optimum results. This is an option for large infestations. To obtain the insects, contact the Colorado Department of Agriculture, 970-464-7916.

**MECHANICAL**

Any mechanical or physical method that severs the root below the soil surface will kill diffuse knapweed. Mowing or chopping is most effective when diffuse knapweed plants are at full-bloom. Be sure to properly dispose of the flowering cut plants, since seeds can mature and become viable after the plant has been cut down.

*Integrated Weed Management:*

*Diffuse knapweed is best controlled in the rosette stage. It is imperative to prevent seed production. Do not allow diffuse knapweed flowers to appear. Management must be persistent in order to deplete the seed bank in the soil.*

**HERBICIDES** : The following are recommendations for herbicides that can be applied to range and pasturelands. Always read, understand, and follow the label directions. Rates are approximate and based on equipment with an output of 30 gal/acre. Please read label for exact rates. **The herbicide label is the LAW!**

| Herbicide  | Rate   | Application Timing   |
|--|--|--|
| Aminocyclopyrachlor + chlorsulfuron (Perspective)* | 4.75-8 oz. product/acre + 0.25% non-ionic surfactant | Pre-emergence or from seedling to mid-rosette stage. IMPORTANT: Applications greater than 5.5 oz. product/acre exceeds the threshold for selectivity. DO NOT treat in the root zone of desirable trees and shrubs. Not for use on grazed or feed forage. |
| Aminopyralid* (Milestone)                          | 5-7 oz./acre + 0.25% non-ionic surfactant            | Spring at rosette to early bolt stage and/or in the fall to rosettes. Add 1 qt./acre 2,4-D or 3 oz. Perspective when treating in the bolting to flowering growth stages.   |
| Clopyralid (Transline)                             | 0.67-1.33 pints/acre + 0.25% non-ionic surfactant    | Apply to spring/fall rosettes before flowering stalk lengthens. Add 1 qt./acre 2,4-D when treating in the bolting to flowering growth stages.  |

Note: \*Not permitted for use in the San Luis Valley.

Additional herbicide recommendations for this and other species can be found at:

[goo.gl/TvWnv9](http://goo.gl/TvWnv9)

# Diffuse knapweed



# Canada Thistle Identification and Management

List B



Canada thistle (*Cirsium arvense*) is a non-native, deep-rooted perennial that spreads by seeds and aggressive creeping, horizontal roots called rhizomes. Canada thistle can grow 2 to 4 feet in height. The leaves are oblong, spiny, bright green, and slightly hairy on the undersurface. Unlike other noxious biennial thistles which have a solitary flower at the end of each stem, Canada thistle flowers occur in small clusters of 1 to 5 flowers. They are about 1 cm in diameter, tubular shaped, and vary from white to purple in color.

Canada thistle emerges from its root system from late April through May. It flowers in late spring and throughout the summer. It produces about 1,000 to 1,500 seeds per plant that can be wind dispersed. Seeds survive in the soil for up to 20 years. Additionally, Canada thistle reproduces vegetatively through

its root system, and quickly form dense stands. Each fragmented piece of root, 0.25 inch or larger, is capable of forming new plants. The key to controlling Canada thistle is to eliminate seed production and to reduce the plant's nutrient reserves in its root system through persistent, long-term management.

Canada thistle is one of the most troublesome noxious weeds in the U.S. It can infest diverse land types, ranging from roadsides, ditch banks, riparian zones, meadows, pastures, irrigated cropland, to the most productive dryland cropland. Large infestations significantly reduce crop and cattle forage production and native plant species. It is a host plant to several agricultural pests and diseases. Canada thistle prefers moist soils, but it can be found in a variety of soil types. It has been found at elevations up to 12,000 feet.

Effective Canada thistle control requires a combination of methods. Prevention is the most important strategy. Maintain healthy pastures and rangelands, and continually monitor your property for new infestations. Established plants need to be continually stressed. Management options become limited once plants begin to produce seeds. Details on the back of this sheet can help to create a management plan compatible with your site ecology.



# Canada thistle

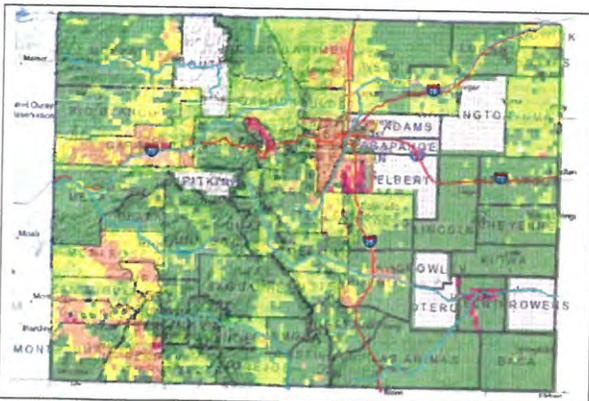
*Cirsium arvense*

## 2013 Quarter Quad Survey

Canada Thistle  
*Cirsium arvense*

2013 Quarterquad Survey  
Distribution and Abundance  
in Colorado

129,572\* Infested Acres



Distribution Legend: 0 acres, 1-10 acres, 11-50 acres, 51-300 acres, 301-999 acres, +1000 acres, Not Reported

Acreage estimates supplied by County Weed Coordinators and compiled by the Colorado Department of Agriculture

Canada thistle is designated as a "List B" species as described in the Colorado Noxious Weed Act. It is required to be either eliminated, contained, or suppressed depending on the local infestations. For more information visit [www.colorado.gov/ag/weeds](http://www.colorado.gov/ag/weeds) and click on the Noxious Weed Program link or call the State Weed Coordinator at the Colorado Department of Agriculture, Conservation Services Division, (303) 869-9030.

### Key ID Points

1. Cluster of 1-5 white to purple flowers on a stem.
2. Floral bracts are spineless.
3. Small flowers that are 1 cm in diameter.
4. Perennial, rhizomatous plant with spiny, oblong, green leaves.

# Integrated Weed Management Recommendations

## Canada thistle *Cirsium arvense*

Integrated weed management is imperative for effective Canada thistle control. This weed needs to be continually stressed, forcing it to exhaust root nutrient stores, and eventually die. Mowing or grazing can be followed up with herbicide application. Avoid hand-pulling and tilling which can stimulate the growth of new plants.



### CULTURAL

Prevention is the best control strategy. Maintain healthy pastures, riparian areas, and rangelands. Prevent bare ground caused by overgrazing, and continually monitor your property for new infestations. Establishment of select grasses can be an effective control.



### BIOLOGICAL

Cattle, goats, and sheep will graze on Canada thistle when plants are young and succulent in the spring. Follow up grazing with a fall herbicide application. Insects are available, and provide limited control. Currently, collection and distribution methods for Canada thistle rust (*Puccinia punctiformis*) are being refined. For more information on Canada thistle biocontrol, contact the Colorado Department of Agriculture - Palisade Insectary at (970) 464-7916.



### MECHANICAL

Due to Canada thistle's extensive root system, hand-pulling and tilling create root fragments and stimulate the growth of new plants. Mowing can be effective if done every 10 to 21 days throughout the growing season. Combining mowing with herbicides will further enhance Canada thistle control.



### CHEMICAL

The table below includes recommendations for herbicides that can be applied to rangeland and some pastures. Treatments may be necessary for an additional 1 to 3 years because of root nutrient stores. Always read, understand, and follow the label directions.

| Herbicide   | Rate   | Application Timing   |
|---|--|--|
| Aminopyralid*<br>(Milestone)                          | 5-7 oz. product/acre + 0.25% v/v non-ionic surfactant OR 1 teaspoon product/gal water + 0.32 oz./gal water | Apply in spring at the pre-bud growth stage until flowering and/or to fall regrowth. Can also add chlorsulfuron (Telar) at 1 oz./acre to the mix.  |
| Clopyralid + Triclopyr<br>(Prescott; Redeem; others)  | 3 pints product/acre + 0.25% v/v non-ionic surfactant OR 1.25 oz. product/gal water + 0.32 oz./gal water   | Apply until flowering and/or fall regrowth.  |
| Aminocyclopyrachlor + chlorsulfuron<br>(Perspective)* | 5.5 oz. product/acre + 0.25% v/v non-ionic surfactant  | Apply to spring rosette to flower bud growth stage; or fall. IMPORTANT: Applications greater than 5.5 oz. product/acre exceeds the threshold for selectivity. DO NOT treat in the root zone of desirable trees and shrubs. Not for use on grazed or feed forage. |

Note: \*Product not permitted for use in the San Luis Valley.

Additional herbicide recommendations for this and other species can be found at:  
[goo.gl/TvWwv9](http://goo.gl/TvWwv9)

# Scotch Thistle Identification and Management

List B



Scotch thistle includes two species, *Onopordum acanthium* L. and *O. tauricum* Willd. Both are non-native biennial forbs. During the first year of growth, both species appear as a rosette in spring or fall. During the second year in mid to late spring the stems bolt, the plants flower, set seed, and the plants die. Both Scotch thistle species can grow up to 12 feet tall and basal rosettes can be up to 2 feet in diameter. Stems are numerous and branched. Characteristically, the entire length of stems from both species have broad wings with spiny tips. *O. acanthium* leaves have an overall gray color from dense woolly hairs. *O. tauricum* leaves are glandular and not as hairy as *O. acanthium*. For both, leaves are spiny. Both species have a distinct mid-rib. Flower heads are terminal, violet to reddish in color, 1 to 3 inches in diameter, and arranged in a raceme. One plant can produce up to 100 flower heads. The

spine-tipped bracts curve away from the flowering head. The flower receptacle is fleshy and has pits to hold seeds. The plants flower from mid-June to September. Scotch thistle seeds have the ability to mature in flower buds and heads that have been removed from the stalk. Both species can produce up to 14,000 seeds per plant. Seeds remain viable for up to 30 years but germinate readily with moisture in spring and fall.

Scotch thistle invades rangeland, overgrazed pastures, roadsides, and irrigation ditches. Both species prefer moist soil, such as areas adjacent to creeks and rivers. Roadsides appear to be especially vulnerable to invasion likely due to the water runoff from the shoulders. Maintaining healthy pastures and native plants, minimizing soil disturbance, changing land use practices to prevent overuse, and using seed-free equipment are critical measures to preventing infestations. As with most biennials, once established, limiting seed production is critical to effective control. Due to the robust, spiny nature of Scotch thistle, this plant can act as a living barbed wire fence, making areas impassible for wildlife, livestock, and people and unpalatable to cattle.

To control seed production, plants with buds or flowers should be collected, bagged and immediately disposed of or destroyed. Chemical control is most effective when plants are in rosette stage, spring or early fall. Mechanical controls can be used to eliminate small patches or plants in a later growth stage.

Scotch thistle is designated as a "List B" species in the Colorado Noxious Weed Act. It is required to be eradicated; some populations may be contained or suppressed depending on state regulations. For state regulations described for each county, refer to the most recent Rule, or visit [www.colorado.gov/ag/weedcontacts](http://www.colorado.gov/ag/weedcontacts) for details.



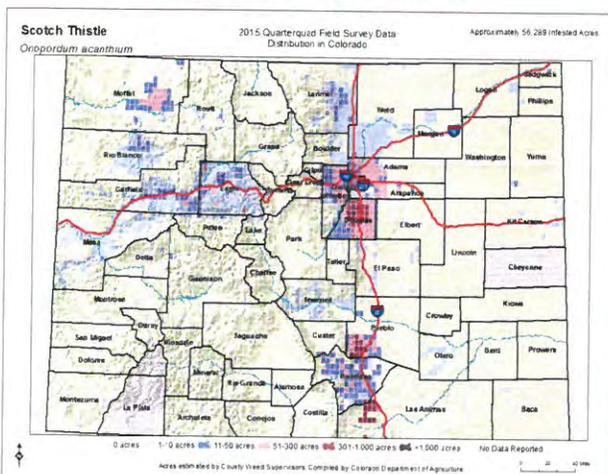
© Leslie Mehrhoff, University of CT

© Bonnie Millon, NPS

© Bonnie Millon, NPS

**Scotch thistle**  
*Onopordum acanthium* L. and *O. tauricum* Willd.

## 2015 Quarter Quad Survey



### Key ID Points

1. Pitted fleshy flower receptacle.
2. Prominent mid-rib.
3. Wide lobed leaves with distinct mid-rib.
4. Wide spiny wings extend the length of the stem.

# Integrated Weed Management Recommendations

## Scotch thistle

*Onopordum acanthium* L. and *O. tauricum* Willd.

Effective integrated management means using a variety of eradication methods along with restoration, prevention of seed production and dispersal, and monitoring. Maintain robust healthy native landscapes. Restore degraded sites. Avoid soil disturbance. As with most biennials, prevent seed production in the first and second year of growth. Prevent seed from dispersing, such as on contaminated equipment. Rest sites until they are effectively restored. Change land use practices. Use methods appropriate for the site.



### CULTURAL CONTROL METHODS

Effectiveness begins with maintaining or restoring a competitive native forb and forb assemblage. Continue restoration efforts until native plants are robust and abundant. Use locally adapted native seeds whenever possible to improve competitiveness. Include cool season and warm season, as well as perennial and annual grasses in revegetation efforts. Soil may need to be restored by adding soil amendments, soil microbes, mycorrhizal fungi and nitrogen fixing plants such as legumes. Manage land uses so they do not create bare mineral soil or compact soil. Annual crop cultivation appears to be an effective control measure.



© Jacquie Turner, The Timaru Herald

### BIOLOGICAL CONTROL METHODS

Domestic livestock are likely to avoid this plant due the large number of spines all over the plant. Goats and sheep may eat flower heads if plants are small. Since most livestock and herbivores avoid the leaves and stems, Scotch thistle can become an "increaser" in over-grazed systems. Properly managed grazing systems can increase desirable plant vigor and indirectly reduce Scotch thistle. There are no known biological control agents effective against scotch thistle or authorized in Colorado. For more information about biological control agents, visit the Colorado Department of Agriculture's Palisade Insectary website at [www.colorado.gov/ag/biocontrol](http://www.colorado.gov/ag/biocontrol).



© Bugwood

### MECHANICAL CONTROL METHODS

Methods, such as tilling, hoeing and digging, are best for infestations smaller than 0.5 acres; weigh this against other plants present, ecology and site condition. Sever roots below the soil surface during the first year before the plant stores energy and in the second year before seed production. Mowing, chopping and deadheading stimulates more flower production; these methods require consecutive years of season-long treatments. Flower heads must be collected, bagged, and disposed of or destroyed; seeds will mature and germinate if left on the ground. Fire gives Scotch thistle a competitive advantage. Large fleshy stems and leaves would not be consumed in a low severity fire and seeds would remain unaffected. High severity fires would likely damage native plants, which favors Scotch thistle if seeds are not killed and this is not recommended.

### CHEMICAL

NOTE: The following are recommendations for herbicides that can be applied to pastures and rangeland. Rates are approximate and based on equipment with an output of 30 gal/acre. Follow the label for exact rates. Always read, understand, and follow the label directions. The herbicide label is the LAW!

| HERBICIDE  | RATE   | APPLICATION TIMING  |
|--|--|---|
| Aminopyralid* (Milestone)  | 7 oz. product/acre + 0.25-0.5% v/v non-ionic surfactant                                  | Apply in spring rosette to early bolting growth stages or in fall to rosettes. *Product not permitted for use in the San Luis Valley.   |
| Chlorsulfuron** (Telar)  | 1-2.6 oz. product/acre (0.75 oz. active ingredient/acre)+ 0.25% v/v non-ionic surfactant | Spring from bolting to flower bud stages. **This herbicide has residual soil activity that will affect all broadleaf seedlings germinating after application has occurred.  |
| Metsulfuron + Chlorsulfuron (Cimarron X-tra)   | 2 oz. product/acre + 0.25-0.5% v/v non-ionic surfactant                                  | Apply during rosette to flower bud stages.  |
| Clopyralid (Transline)   | 0.67-1.33 pints product/acre + 0.25% v/v non-ionic surfactant                            | Apply to rosettes in spring or fall.  |
| Aminocyclopyrachlor + chlorsulfuron (Perspective)*<br>*Product not permitted for use in the San Luis Valley. | 4.75-8 oz. product/acre + 0.25% v/v non-ionic surfactant                                 | Apply from the seedling to the bolting stage. IMPORTANT: Applications greater than 5.5 oz. product/acre exceeds the threshold for selectivity. DO NOT treat in the root zone of desirable trees and shrubs. Not for use on grazed or feed forage. |



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