

## At A Glance

### Signing Cooperators:

- Andersen Home Ranch
- Bureau of Land Management
- City of Carson City
- Carson Valley Conservation District
- Carson Water Subconservancy District
- Eagle Valley Golf Course
- Empire Ranch Golf Course
- Friends of Silver Saddle Ranch
- Nevada Department of Agriculture
- Nevada Department of Transportation
- Nevada Division of Forestry—Western Region
- Nevada Division of State Lands
- Nevada Division of State Parks
- Washoe Tribe of Nevada and California
- University of Nevada Cooperative Extension
- USDA Forest Service
- Silver State Industries Ranch

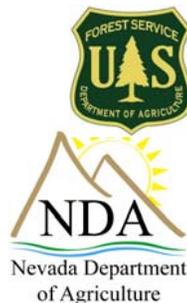
### Additional partners:

- River Wranglers
- Fritsch, Mark Twain, Empire Elementary Schools
- Carson Montessori School
- Carson High School Biology on the River
- Silver State Charter High School

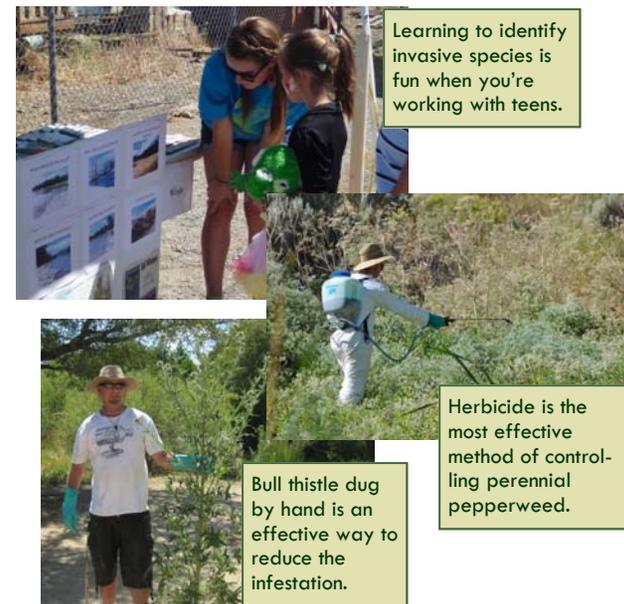
- **22 acres** were mechanically treated for weeds
- **216 acres** received chemical treatment
- **200 acres** were monitored for early detection rapid response
- **984 hours** weed crew treatment time
- **98 hours** Volunteer weed control
- **32 Educational events** held
- **790 adults** and
- **2,116 youth** in face-to-face contact.
- **Dalmatian toadflax** eradicated\*
- **Perennial pepperweed** suppressed\*
- **Hoary cress** controlled\*
- **Russian knapweed** suppressed
- **Scotch thistle** eradicated
- **Musk thistle** eradicated
- **Bull thistle** suppressed
- **Poison hemlock** suppressed
- **Yellow starthistle** suppressed

\*For purposes of this report, eradicated means all growing plants. Some seedbank may remain. Suppressed indicates reduced population size; controlled means not allowed to increase.

### Thanks to our Funders!



## Getting Things Done 2012



Learning to identify invasive species is fun when you're working with teens.

Herbicide is the most effective method of controlling perennial pepperweed.

Bull thistle dug by hand is an effective way to reduce the infestation.

The Carson City Weed Coalition is a group of private landowners and public agency staff that work together to control and/or eradicate noxious weeds in our city.

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## OUTREACH

Prevention is the least expensive form of weed control and teaching the public about prevention and identification is essential to that end. We seek to engage Carson City youth and adults in fun learning opportunities with community weed pulls, educational field days around Carson City for area school children and large displays to inform our residents. Through all of this area residents learn to change their actions to lessen weed transfer.

In 2012 we had the pleasure of working with a national group of young people from



STLF youth digging hemlock.

Students Today Leaders Forever. They removed more than 40 pounds of poison hemlock at Riverview Park.

Annually the Coalition sponsors a week early in the season devoted to educating the community about invasive weeds. In 2012, we promoted identification and reporting.



Invasive Species Awareness Week brings awareness of invasive plants to

Bouquets of noxious weeds were placed around town in as many venues as possible.



Yellow starthistle pull.

## TREATMENT

Coalition members use Integrated Pest Management (IPM) which includes an arsenal of control methods, such as herbicide, mechanical (digging or pulling), biocontrol (plant herbivory to weaken the plants) and cultural (restoring disturbed sites to prevent infestation) treatments.

We dug annual and biennial thistles and poison hemlock. We chemically treated perennial pepperweed, Canada thistle, hoary cress and Russian knapweed. We released stem-boring weevils on another Canada thistle infestation and monitored previous release sites. We actively searched for medusahead, Dalmatian toadflax, and Scotch thistle as well, but found none of those species.



Cost-sharing with the Railroad Museum allowed us to get a large treatment done on Canada thistle.

Treatment costs were covered by a variety of entities, including grants from the Carson Water Subconservancy District, USDA Forest Service State and Private Forestry through the Nevada Department of Agriculture, cost-share with private landowners and local entities and labor from Carson City Public Works and Parks and Open Space.

## RESTORATION

Environmental disturbance is the primary reason why infestations get a foothold. Restoring disturbed areas is an important part of the Coalition's weed plan. Students on river-focused field trips get an opportunity to assist in protecting areas from invasion. The Coalition attempts to minimize disturbance and makes plans to revegetate disturbed areas with desirable plants as quickly as feasible.

Disturbance can be caused by natural or human actions; restoring weed treatment sites is crucial to our long-term plan.



Planting natives in small pockets of disturbance is a proven method of weed control.



CHS Biology classes helped plant bunchgrasses to discourage hoary cress infestations.



Weed-treatment disturbance was revegetated with desirable perennial grasses.