



TRI-COUNTY WEED CONTROL
133 Fay Avenue – Ely, NV 89301
(775) 289-6341

2013 SEASON REPORT

This year, with the generous assistance of a loan from Lincoln County, Tri-County Weed Control (TCWC) was able to purchase the building we are in located at 133 Fay Avenue. The purchase price of the property was \$180,000.00 with the interest at the rate of 4.75% per annum. The loan should be paid in full within eighty-four (84) months. We sincerely thank the Lincoln County Board of Commissioners for their assistance with this purchase.

Due to some major leaks when it rains, we hired R&R Roofing to replace the building tie-in on our lean-to; patch the heat pipe holes; to inspect roof fasteners; and replace the bad ones at a cost of \$3,420.00.

We also purchased a used 1980 Allis Chalmers Forklift from Bath Lumber for \$7,500.00. This forklift will enable us to choose the cheapest carrier for our herbicide deliveries and avoid lift gate charges from the freight companies. We have utilized the forklift to move oil containers to the oil furnace and improve our maintenance capabilities.

We traded in two out-dated GEOXM/XT units for two Nomad GPS units this year giving us a total of seven Nomads added to our GPS technology. This enables our inventory/spray crews to effectively log and track data collected for our clients with a more reliable system.

To improve both our spray and inventory crews' communication in remote areas, we purchased six Garmin Rino120 GPS Enabled 2-Way radios. These units have a built-in basemap and with the assistance of the GPS navigator, a person can send their exact location to the other Rino users in the group so they can see an employee's precise location on the map page.

For our 2013 seasonal year, TCWC hired six seasonal employees for inventory, spraying, monitoring, and maintenance. We ended the season with four "regular full-time" and one seasonal employee who helped support our winter administrative and maintenance operations.

The drug testing program we implemented in 2012 has proven to be effective in hiring exceptional employees. This season, we sent twelve applicants for drug screening with two failing the drug test. Barrick/Bald Mountain Mine, as a condition of awarding TCWC a contract, mandated us to drug test all of our applicators. For this reason our employees who were hired prior to us implementing the drug testing program were required to take a drug test. Without any doubt from us, they passed the test!

For 2013, only one seasonal employee out of five met the requirements of receiving a seasonal incentive bonus. We paid \$381.72 to Thomas Tilford for complying with the requirements of: (1) committing to work through the end of the season or a resignation date mutually agreed between TCWC and the employee; (2) attending work on time every scheduled work day; and (3) achieving a goal of zero safety related accidents. We had two employees forfeit their incentive due to accidents, one employee left prior to her commitment date, and one employee forfeited their incentive due to termination-for-cause. We have one seasonal employee, Jerry Pankow, currently in the program and will qualify for his incentive on June 2, 2014 if he meets all the requirements.

TRI-COUNTY WEED CONTROL OUTREACH AND EDUCATION

In 2013, TCWC logged over 1,370.5 man-hours in public outreach and education in White Pine, Lincoln, and Nye Counties. Most of those hours were direct contact with local Cooperative Weed Management Area (CWMA) members regarding weed management and education. Tri-County Weed Control employees logged 363.0 man-hours of attending seminars, conventions and other training sessions for weed management training and mine safety awareness.

The following are highlights of the time spent by TCWC this year in furthering its dedication to weed management and education in Nevada:

I. General outreach to public

- Met with residents and landowners/managers on a general basis regarding noxious weeds' nuisances;
- Contact with landowners on a regular basis concerning treatment results, need for re-treatment, and plans for continued control of noxious weeds;
- Identified numerous plants for local residents, both those at their properties and those brought to our office;
- Answered numerous calls from residents concerning noxious weeds' problems and treatments in the tri-county area and provided solutions for control;
- Maintained liaison link between private and public landowners for noxious weeds' concerns;
- Provided informational material to landowners regarding backpack sprayer calibration.

II. Local CWMA's

- Prepared and gave various presentations at CWMA's and conservation districts' meetings in Lincoln, White Pine and Nye Counties regarding noxious weeds' problems and solutions;
- Provided computer support to CWMA's including generating various maps of their boundaries and noxious weeds' locations;
- Provided CWMA's with numerous noxious weeds' identification booklets, handouts, flyers;
- Met with various local public officials and representatives regarding weed control efforts and CWMA programs.

III. Education, training, and outreach

- 1) Co-hosted *Eastern Nevada Landscape Coalition (ENLC) and Tri-County Weed Control's Eight Annual Winter Weed Workshop on **Battling Weeds with Limited Resources in an Arid Environment.***
- 2) Bio Releases: (there were no bio releases in 2013).
- 3) Education and Training:
 - Presentation to the Nye County Water Board District regarding procedures, applications, expected success rates, and potential costs for the removal of tamarisk;
 - Attended the 2013 Idaho Weed Conference Workshop in Boise, ID;
 - Attended the 2013 Utah Weed Control Association Conference in Richfield, UT;
 - Attended the 2013 Nevada Weed Management Association Conference in Sparks, NV;
 - Attended The Nevada Rangeland Resources Commission's N-4 Grazing Board meeting;
 - Attended the Nevada Department of Agriculture's *Weed Seed Free Forage & Gravel Round-Table Meeting* at the White Pine County Cooperative Extension Office;
 - Attended the Nevada Department of Agriculture's *2013 Nevada Medusahead Task Force Meeting* at the White Pine County Cooperative Extension Office;
 - Attended *Invasive Plant Management- Greater Southwest* via webinar;

- Attended Barrick's Hazard Training at Bald Mountain Mine;
 - Attended Schell Creek Safety & Training's *Mine Safety Training Class (MSHA)*;
- 4) Community Outreach:
- Assisted at the *White River Valley CWMA's* Weed Treatment Volunteer Day in Lund;
 - Assisted as a volunteer for the 2013 *National Public Lands Day Clean-up* by pulling down approximately 3 miles of an old barbed wire fence and removing an entanglement to wildlife alongside Horse and Cattle Camp Road south of Ely, NV;
 - Paula Day completed her service as Vice-President of NWMA in assisting with their 2013 weed conference in Sparks and attending several NWMA board meetings throughout the year. At the 2013 Nevada Weed Management Association (NWMA) conference, Paula was elected to serve as their 2014-2015 treasurer.

During the course of their work day, inventory and spray crew members are constantly carrying out Tri-County Weed Control's objectives by talking with landowners, and even passers-by they meet, providing them information regarding weed identification, weed treatment, and the goals of Tri-County Weed Control in Nevada.

INVENTORY:

Since its formation in 2000, TCWC has now inventoried over 19,449,782.48 acres of land in White Pine, Lincoln, Nye, and Clark Counties.

For 2013, TCWC had a three 3-man inventory crew. The crew inventoried 913,378 acres for noxious weeds for BLM's Ely District in the lower Newark Valley, upper Railroad Valley, Big Sandy Valley, and Little Smokey Valley from June 11, 2013 through August 15, 2013. We recorded 215 different occurrences representing 522.24 acres for this year's BLM inventory. The spray crew added an additional 370 points of infestations for 73.97 acres. The crew also logged 2,801.02 miles during these inventory sessions, which does not include travel miles to and from a site. Our crew also inventoried 3,800 acres for the Duckwater Shoshone Tribe on their reservation.

MONITORING:

In 2005, under the provisions of BLM Task Order 10, there were 20 permanent monitoring sites established by TCWC, and an additional 20 sites were established in 2006. In 2008, an additional two sites were established for a total of 42 sites to be being monitored. The monitoring consists of identifying *all plants* within a 28 and 73 foot marker at each site by species and life stage (rosette, seedling, bolt, standing dead); log the UTM's of each marker; record the total number of plant species within the markers; and record a photograph of each transect and photo plot.

This was the 9th year of TCWC monitoring these sites for the Bureau of Land Management. On April 16, 2013, we began the process of the monitoring of these 42 sites. The monitoring project was completed on May 31, 2013. All data was collected and added to the previous years' information.

RESTORATION:

Tri-County Weed Control performed no restoration in 2013 but assisted the Duckwater Shoshone Tribe by providing seed to them.

TREATMENTS:

This year, the spray crew consisted of three “full-time regular” licensed applicators plus one “seasonal” licensed applicator using spray trucks, 6-wheelers, mini-truck, backpack sprayers, and horses/mules to meet the needs for the projects. Michael Wopschall, our seasonal inventory crew, used his mechanical ability and knowledge to free up our full-time, regular mechanic, Joe Lystrup, whom assisted with spraying when needed. The spray crew began the 2013 season on January 22nd and completed its last project on December 12, 2013. In total, the spray crews completed 429 different projects.

The following is a tabulation of actual recorded spray sessions from GIS data for just the following governmental entities serviced, and does not include travel miles to and from a site:

<i>Organization</i>	<i>Spray Session Mileage</i>	<i>Gross Infested Acres</i>
BLM	4,138.93	100,337.70
NDOT– Tri-Counties	3,505.66	63,739.27
NDOT – Clark County	727.40	13,225.45
<i>Totals:</i>	<i>8,371.99</i>	<i>177,302.42</i>

The following pages set forth detail information for the work completed during the 2013 season of the Tri-County Weed Control. This work was completed with 5,946.0 hours for weed treatment; 842.5 hours for inventory; and 158.0 hours for monitoring for a grand total of 6,946.5 man hours for completion of TCWC's season.

USDI Bureau of Land Management, Ely District		
Agreement No: L11AC20130 - General, Supplement 0002	<i>Acres</i>	<i>Income</i>
General Weed Treatments (Treat 4)	204.72	\$20,323.25
<i>TCWC In-kind \$24.82</i>		
Agreement No: L11AC20130 - General, Supplement 0003	<i>Acres</i>	<i>Income</i>
Inventory (Newark, upper Railroad, Big Sandy & Little Smoke Valleys)	913,378.24	\$55,000.00
Monitoring (42 sites)	-	\$10,000.00
General Weed Treatments (Treat 1)	689.63	\$102,453.05
General Weed Treatments (Treat 2)	87.40	\$13,156.28
Railroad Valley - Perennial Pepperweed Treatment	206.57	\$13,325.00
Ely Recreation Site Treatments	3.20	\$3,000.00
Tunnel Springs Wilderness Area Treatment	0.80	\$20,000.00
Range Fire (herbicide)		\$27,189.45
Range Fire treatment	1,922.36	\$51,903.72
Agreement No: L11AC20139 Meadow Valley Wash	<i>Acres</i>	<i>Income</i>
Weed Treatments (Treat 6)	31.31	\$14,434.43
Agreement No: L11AC20139, Sup 0001 Meadow Valley Wash	<i>Acres</i>	<i>Income</i>
Weed Treatments (Treat 1)	46.27	\$17,876.67
Weed Treatments (Treat 2)	172.68	\$12,785.26
Agreement No: L10AC20200 White River / SNPLMA	<i>Acres</i>	<i>Income</i>
Weed Treatments (Treat 6)	129.81	\$32,953.64
Weed Treatments (Treat 7)	58.22	\$5,919.65
<i>Total for Bureau of Land Management</i>	<i>916,931.21</i>	<i>\$400,320.40</i>

Other Government Entities			
NRCS (B. Allison treat share)	<i>herbicide</i>	n/a	\$450.00
USF&W (Bobby Allison, Carp)	<i>perennial pepperweed</i>	6.38 a	\$1,506.34
Ely State Prison	<i>bareground</i>	8.04 a	\$1,541.00
Total for Other Government entities		14.42 a	\$3,497.34
Nevada Department of Transportation			
Clark County	<i>(details listed below)</i>	15.24 a	\$12,770.60
Tri-Counties	<i>(details listed below)</i>	362.66 a	\$53,024.34
Total for Nevada Department of Transportation		377.90 a	\$65,794.94

**Summary of State Highways in Clark County
Treated in 2013 by
Tri-County Weed Control**

Hwy 95 S. of Las Vegas – Weeds that are known to be present are Sahara mustard, salt cedar, and spotted knapweed. From the state line to Searchlight, there are scattered infestations of Sahara mustard with heavy infestations around Cal-Nev-Ari. From Searchlight to intersection of Hwy 93 there is considerable Sahara mustard with a few infestations of salt cedar; however, Sahara mustard is not being treated at this time. A new point of *African Rue* was found and treated next to the on ramp of 95 and 93 between Railroad Pass Casino and Boulder City.

Hwy 95 N. of Las Vegas – Weeds known to be present are Sahara mustard and salt cedar. There are also some salt cedar infestations around Indian Springs. Sahara mustard treated within 10 miles of Las Vegas in 2013.

Hwy 160 – Sahara mustard is lightly scattered throughout MM 7 to MM 15. Scattered infestations of Sahara mustard were noticed from I-15 to mile marker 15. Scotch thistle was found on Hwy 160 near Las Vegas in previous years. For 2013, no weeds present at this time.

Hwy 163 – The only weed known to be present at this time is Sahara mustard. There are heavy infestations from mile marker 15 to mile marker 19. There are also scattered patches from mile marker 0 to mile marker 15. Did not treat in 2013.

Hwy 164 –Weeds that are known to be present are Malta starthistle and Sahara mustard. Both existed in and around the material yard in Searchlight. For 2013, no weeds present at this time.

Hwy 168 – Weeds known to be present are Sahara mustard, Malta starthisle, salt cedar, and Russian knapweed. For 2013, no weeds present at this time.

Hwy 169 – Weeds that are known to be present are Sahara mustard, salt cedar, Russian knapweed and Malta starthistle. Small infestations of Malta starthistle is the only weed treated in 2013.

Hwy 170 – The only weed known to be present is Sahara mustard, and the entire area is heavily infested from mile marker 0 to mile marker 11. No treatment in 2013.

I-15 – Weeds that are known to be present are Malta starthistle, Russian knapweed, and Sahara mustard. Sahara mustard is heavy all along the freeway and is currently not being treated. Malta starthistle is scattered between mile marker 64 and mile marker 100, with a heavy infestation at the Valley of Fire exit. Malta starthistle infestations were considerably less this year and no Russian knapweed found in December 2013.

Hwy 93 – Weeds known to be present are diffuse knapweed, Sahara mustard, and Malta starthistle. One patch each of diffuse knapweed and Malta starthistle have been identified. Sahara mustard exists from the I-15 intersection to the Lincoln County line. This infestation is down considerably from last year. Only Sahara mustard was found and treated this year.

MS 2-01 – In use, not visited.

MS 09-01 – Malta starthistle has been treated in the past. However, this site was being used in 2013.

MS 09-04 – The only weed known to be present is Sahara mustard and the infestation is widely distributed throughout the entire site. This site not visited in 2013 due to site being used.

MS 11-06 – There has been a small infestation of Sahara mustard in the past. For 2013 site was in use.

MS 18-2 – For 2013, no weeds present at this time.

MS 18-3 – For 2013, no weeds present at this time.

MS 19-01 – The only weed known to be present is salt cedar. This is a large infestation covering 2 acres of the site. For 2013, no weeds present at this time for retreat.

MS 25-1 – Weeds that are known to be present are Sahara mustard, salt cedar and Malta starthistle. For 2013, Malta starthistle was the only noxious weed found and treated.

MS 32-02 – Not treated in 2013.

MS 47-03 – For 2013, no weeds present at this time.

MS 47-04 – For 2013, no weeds present at this time.

MS 69-01 – In 2008 it was reported there is a large infestation of salt cedar covering 2 acres of the site. There is also Sahara mustard scattered through the entire site, and an approximate 2,000 sq. ft. patch of Malta starthistle also was found. However, this location was not accessible this season (locked combo lock).

MS 81-01– This material site was found to be weeds free, but with a possibility of salt cedar regeneration in the active areas. Not treated in 2013.

MS 88-03 – The site is known to be heavily infested with Sahara mustard, with a small stand of salt cedar. This site visited but not treated due to site being used.

Cottonwood Cove Road – Weeds that are known to be present are Sahara mustard and Malta starthistle. The Sahara mustard exists in small, widely distributed patches along the highway from Searchlight to the park boundary. Not treated in 2013.

Warm Springs Road – Weeds that are known to be present are Sahara mustard, salt cedar and Malta starthistle. There have been heavy infestations of both Sahara mustard and Malta starthistle throughout the area in the past. There are also heavy stands of salt cedar scattered throughout the area. There is Russian knapweed creeping through the fence from the Warm Springs Natural Area. For 2013, only small, scattered patches of Malta starthistle found.

Searchlight NDOT Station – Weeds that have been known to exist at this station is Malta starthistle; however, this site is weed free at this time.

Glendale Main Station – For 2013, no weeds present at this time.

OBSERVATIONS OF THE 2013 SEASON

Poor precipitation levels resulted in poor germination, especially in the annuals and bi-annuals, such as Sahara mustard and Scotch thistle. The targeted species were Malta starthistle, Sahara mustard, diffuse knapweed, and spotted knapweed. In the 2012 season, Tri-County Weed Control traversed 682.22 miles, 12,404.00 gross acres, and 3.74 acres treated within Clark County, at a total cost of \$5,932.22. In the 2013 season there were 727.4 miles navigated, 13,225.45 gross acres, and 15.24 acres treated at a cost of \$12,770.60.

Summary of State Highways in Lincoln, Nye & White Pine Counties Treated in 2013 by Tri-County Weed Control

Hwy 6 west of Ely – Weeds that are known to be present are spotted knapweed, hoary cress, salt cedar, perennial pepperweed, and Russian knapweed. Spotted knapweed starts at McDonald's thinning to no weeds present before the 318 turnoff. Perennial pepperweed is spotty on the bypass from McDonalds to Murray Summit then quits and picks up again west of the Currant Maintenance Station and continues to the oil refinery. Hoary cress starts at McDonalds and continues over Murray Summit thinning in density to the White River Road. One point of Russian knapweed found was found on the bypass in Ely; the rest was between Currant Maintenance station and the town of Currant.

Hwy 6 – Tonopah – no weeds present.

Hwy 50 – 6 east of Ely – One small patch of perennial pepperweed was found near the Sheriff's office and another was treated on the west side of Sacramento Pass. Hoary cress was found in small patches from Ely to Conners Summit. Spotted knapweed occurs in small patches from Ely to Conners Summit with heavy infestation around Majors Junction. The spotted knapweed starts thinning to the east of Junction 893. Infestations pick-up again at Osceola increasing in density over Sacramento Pass to the rest area and thinning to small patches ending at the Maintenance Station. No Russian knapweed was found this year.

Hwy 50 west of Ely – Weeds that are known to be present are spotted knapweed, diffuse knapweed, musk thistle, Scotch thistle, and hoary cress. From Ely to the Ruth turn there is a fairly large infestation of spotted

knapweed and a small infestation of diffuse knapweed. Over Robinson Summit there are small patches of hoary cress. Large infestations of spotted knapweed and hoary cress occur from the Moorman Ranch and continue with less frequency to the Eureka County line. Treatment was extended to treat large infestations of spotted knapweed on the east side of Pinto Summit. There is one patch of musk thistle on the west side of Antelope Summit and one patch on the east side of Pancake Summit. A point of Russian knapweed was treated along chain-up area on Antelope Summit by Illipah. Scotch thistle was found and treated on Pancake Summit.

Hwy 93 north of Ely – Weeds that are known to be present are spotted knapweed, hoary cress, musk thistle, Scotch thistle and Russian knapweed. Heavy infestation of spotted knapweed from Ely to just north of Hwy 490 with small infestations of hoary cress, musk thistle, and Scotch thistle from Hwy 490 to Cherry Creek Road. No Russian knapweed was found this year.

Hwy 93 south of Ely – Weeds that are known to be present are spotted knapweed, diffuse knapweed, Russian knapweed, salt cedar, Scotch thistle, perennial pepperweed, Sahara mustard and Dalmatian toadflax. Heavy infestations of spotted knapweed around junction of Hwy 50-6 and Hwy 93 decreasing in frequency to Pony Springs. The infestations increase once again to Panaca. Scotch thistle and spotted knapweed were found and treated on Oak Springs Summit and Delamar Valley. Russian knapweed and perennial pepperweed found in Alamo but outside of the right-away. No weeds were found south of Alamo. Heavy infestations of Dalmatian toadflax found between the intersection of Hwy 93 and Hwy 321 but decreasing in intensity to Bristol Wells Road with the exception of large infestations in the burn area.

Hwy 95 – Weeds that are known to be present are salt cedar, diffuse knapweed, spotted knapweed, Sahara mustard, and Russian knapweed. The Russian exists by the Nye and Esmeralda county line. Heavy infestations of salt cedar exist north and south of the Beatty area. No knapweeds found Sahara mustard was treated starting just south of Amargosa Valley and ending north of the county line.

Hwy 160 – Weeds known to be present are Sahara mustard, Malta starthistle, Russian knapweed and Scotch thistle. Sahara mustard was found and treated between Pahrump and the county line.

Hwy 267 – No weeds present in 2013.

Hwy 317 – Weeds that are known to be present are spotted knapweed, hoary cress, Scotch thistle, poison hemlock, and perennial pepperweed. For 2013, heavy populations of all but Dalmatian toadflax were found and treated.

Hwy 318 – Weeds that are known to be present are spotted knapweed, hoary cress, Russian knapweed, Dalmatian toadflax, Scotch thistle, musk thistle, and salt cedar. Overall the highway is clean. Isolated patches of Russian knapweed, spotted knapweed, and salt cedar exist to the Hwy 93 intersection. Small infestations of Scotch thistle were treated this year. Small infestations of spotted knapweed north of the White River Narrows were also treated. No Russian knapweed found in 2013. Musk thistle was found and treated around Hiko.

Hwy 319 – Weeds that are known to be present are Dalmatian toadflax, Scotch thistle, Russian knapweed, spotted knapweed, perennial pepperweed, and Scotch thistle. Small isolated patches of Scotch thistle are scattered along the entire route to the state line. One patch of spotted knapweed exists on the east side of Panaca Summit. Dalmatian toadflax exists approximately seven (7) miles east of Panaca. Scotch thistle was the only weed found and treated along the route this year. Heavy density of Scotch thistle was found in small patches.

Hwy 320 – Weeds that are known to be present are spotted knapweed, musk thistle, Dalmatian toadflax and Scotch thistle. Two patches of spotted knapweed were treated on this route: one is just north of Castleton; the other, on the south end of the highway. Dalmatian toadflax was not found in 2013. Scotch thistle and spotted knapweed were treated this year along this route.

Hwy 321 – Weeds that are known to be present are spotted knapweed, Scotch thistle, and Dalmatian toadflax. Spotted knapweed and Scotch thistle was treated north of Pioche this year along this route and Dalmatian toadflax treated along the entire route.

Hwy 322 – Weeds that are known to be present are Dalmatian toadflax, spotted knapweed and Scotch thistle. Dalmatian toadflax and spotted knapweed treated around Junction 93. Small infestations of Dalmatian toadflax treated just east of Pioche. Small patches of Scotch thistle treated on just south of the Reservoir. Spotted knapweed treated close to Pioche.

Hwy 361 – Salt cedar is present along this route. The infestation is moderate just south of Gabbs, with small isolated patches to the north and south of the main infestation. No weeds present for 2013.

Hwy 372 – From the intersection of Hwy 160 in Pahrump through the city limits are patches of Russian knapweed on both sides of the highway continuing to the state line. No Malta starthistle was found. Treated Russian knapweed from MM 1 to MM 6 in December, 2013.

Hwy 373 – No weeds present in 2013.

Hwy 374 – No weeds present in 2013.

Hwy 375 – No weeds present in 2013.

Hwy 376 – Weeds that are known to be present are salt cedar, Scotch thistle, perennial pepperweed, and hoary cress. Hoary cress exists around Carver area. The salt cedar is located midway between Hwy 6 and Carver. Salt cedar appeared to be dead. Spotted knapweed treated by Round Mountain. Hoary cress and Russian knapweed treated in Carvers. Several points of perennial pepperweed were treated north of Nye and Lander county line.

Hwy 377 – This highway was not treated in 2013.

Hwy 379 – There are small patches of both hoary cress and Russian knapweed within the Duckwater Indian Reservation boundaries. Perennial pepperweed was treated near Currant. Hoary cress and salt cedar were treated just south of Duckwater. No Russian knapweed found.

Hwy 487 - No weeds present in 2013.

Hwy 488 – Weeds that are known to be present are spotted knapweed and Russian knapweed. The spotted knapweed is just outside of the National Park boundary. The Russian knapweed is located on the road that connects Hwy 487 and Hwy 50. Spotted knapweed was found and treated next to the park boundary. No Russian knapweed was found this year.

Hwy 490 – Weeds that are known to be present are hoary cress, Russian knapweed and spotted knapweed. Heavy infestations of hoary cress occur from the intersection of Hwy 93 to Hercules Gap. Hoary cress was treated along the entire route. Small patches of Russian knapweed were treated at both ends.

Hwy 844 – No weeds present in 2013.

Hwy 892 – Weeds that are known to be present are hoary cress, musk thistle, bull thistle, Scotch thistle, spotted knapweed, and water hemlock with large infestations of musk just north of Hwy 50. Only small patches of hoary cress, musk thistle, Scotch thistle, and water hemlock were found and treated.

Hwy 893 – Hoary cress, Scotch thistle, and musk thistle were treated in the spring. No Russian knapweed was present this fall.

Hwy 894 – Musk thistle was treated this year along this route.

Hwy 895 – Not treated in 2013.

Hwy 168 – Russian knapweed is known to be present at the Glendale interchange in the Moapa Valley and next to the Warm Springs Ranch. No Russian knapweed found in December, 2013.

Ely Station – Spotted knapweed was treated at this station in 2013.

OBSERVATIONS OF THE 2013 SEASON

Poor winter and spring precipitation resulted in poor germination. However, late summer and fall precipitation levels could make next year very challenging for noxious weed control.

Tri-County Weed's mileage in 2012 was 3,681.96 miles treating 582.12 acres. In 2013, Tri-County Weed logged 3,505.66 miles, covered 63,739.27 gross acres, and treated 362.66 acres. This was an increase of approximately 16.5% in the number of acres treated.

Miscellaneous Income		
<i>Source</i>	<i>Description</i>	
Money Market Interest Income	<i>Mellon Investments & Wells Fargo Securities</i>	\$364.25
Steve Regan Co.	<i>Refund for state sales tax paid</i>	\$26.27
Suburban Propane	<i>refund for tank & propane</i>	\$421.20
<i>Total Miscellaneous Income</i>		\$811.72

**PRIVATE LANDOWNERS AND/OR
COOPERATIVE WEED MANAGEMENT AREAS (CWMA)**

<i>Southern Nevada Water Authority</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA (Spring Valley)</i>
Subcontract #X0385 Ground Water Development Project- Ranch Treatments	<i>bareground; dandelions; hoary cress; perennial pepperweed; Canada thistle; musk thistle; cocklebur; kochia; halogeton ; bull thistle; Scotch thistle; Russian knapweed</i>	136.66	\$21,712.94	\$452.00
Subcontract #X0391- Well Sites	<i>bareground; Russian thistle; halogeton; cheatgrass</i>	34.70	\$3,644.35	n/a
Subcontract #X0355- Warm Springs <i>TCWC In-kind</i>	<i>bareground; Malta starthistle; perennial pepperweed; Sahara mustard; hoary cress; Russian knapweed; Russian thistle; tamarisk</i> <i>\$90.06</i>	136.47	\$45,000.00	n/a
Total Southern Nevada Water Authority		307.83	\$70,357.29	\$452.00

PRIVATE LANDOWNERS BY COUNTIES

<i>Lincoln County</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA</i>
Conservation Fund, The	<i>tamarisk</i>	0.09	\$410.28	n/a
Coyote Springs Land Co.	<i>tamarisk</i>	2.69	\$1,711.58	n/a
Total Lincoln County Landowners		2.78	\$2,121.86	n/a
<i>Nye County</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA</i>
Round Mtn. Gold Corp- Golf Course	<i>hoary cress; perennial pepperweed; spotted knapweed</i>	11.59	\$2,021.60	n/a
Total Nye County Landowners		11.59	\$2,021.60	n/a

<i>White Pine County</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA</i>
Almberg, Kenna	<i>cheatgrass</i>	0.12	\$76.76	n/a
Barrick – Bald Mountain Cold Creek Camp	<i>bareground</i>	19.59	\$5,000.00	n/a
Barrick-Bald Mountain Mine Spring (includes \$1,620.00 for Barrick mandatory training)	<i>musk thistle; bull thistle; hoary cress; bareground; black henbane; Scotch thistle; Canada thistle; spotted knapweed</i>	125.63	\$23,004.50	n/a
Barrick-Bald Mountain Mine Fall	<i>musk thistle; bull thistle; dyers woad</i>	108.15	\$14,635.11	
Desert Mountain Realty TCWC In-kind	<i>hoary cress</i> \$81.70	0.20	\$0.00	n/a
Duckwater Shoshone Tribe	<i>Inventory</i>	3,800.00	\$11,000.00	
Duckwater Shoshone Tribe TCWC In-kind TCWC In-kind Seed	<i>hoary cress; perennial pepperweed; bull thistle; water hemlock; Russian knapweed; tamarisk; Russian olive; Scotch thistle</i> \$4,634.71 \$2,920.00	740.38	\$60,000.00	n/a
Chachas, George	<i>bareground</i>	1.31	\$502.79	n/a
Evans, John	<i>herbicide</i>	n/a	\$22.20	n/a
Northern Nevada High Sierra-Saw Mill Estates TCWC In-kind	<i>bareground</i> \$51.57	5.50	\$931.53	n/a
O'Brien, Danny	<i>bareground</i>	1.40	\$291.95	n/a
Ostlund, Bob	<i>herbicide</i>	n/a	\$12.38	n/a
Reck Brothers	<i>bareground</i>	3.06	\$566.83	n/a
Staples, Les	<i>bareground</i>	2.57	\$540.69	n/a
White Pine Museum TCWC donation to Museum	<i>bareground</i> \$237.48	0.62	\$100.00	n/a
White Pine Storage	<i>bareground</i>	2.00	\$507.10	n/a
Total White Pine County Landowners		4,810.53	\$117,191.84	n/a

<i>Tonopah Conservation District</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA</i>
Battle Mountain BLM (spring treatment) TCWC In-kind	hoary cress; bull thistle; musk thistle; perennial pepperweed; Scotch thistle; black henbane \$1,798.83	1,077.49	\$24,309.44	n/a
Battle Mountain BLM (fall treatment)	Russian knapweed	3.94	\$6,290.42	n/a
Carver Rodeo Grounds	bareground	0.74	\$280.65	n/a
Share for No. Nye/Esmeralda CWMA (please see below)	please see below	n/a	\$6,133.35	see below
Total Tonopah Conservation District		1,082.17	\$37,013.86	n/a
COOPERATIVE WEED MANAGEMENT AREAS (CWMA)				
<i>No. Nye/Esmeralda CWMA</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA</i>
AU Mines (Tate Station)	Russian knapweed	97.30	\$1,542.67	\$3,085.14
Belmont, Town of	bull thistle	0.06	\$48.07	\$96.14
Berg, Ron-South Millet	hoary cress; bull thistle; musk thistle; yellow pea; Russian knapweed	6.72	\$159.38	\$318.76
Crumley Family	Scotch thistle; musk thistle; bull thistle	0.01	\$28.53	\$57.08
Dirty Dicks Saloon	Scotch thistle	0.03	\$38.02	\$76.04
Kreschmer, Ray	hoary cress; perennial pepperweed	13.52	\$339.12	\$678.23
Marden, Vincent	Scotch thistle; musk thistle; bull thistle	0.04	\$28.64	\$57.28
Marsh, Jim	Scotch thistle; musk thistle; bull thistle	0.01	\$28.52	\$57.03
Monitor Ranch	Russian knapweed; hoary cress; perennial pepperweed	113.68	\$3,891.58	\$7,783.16
Motis, Donna	bull thistle	0.01	\$28.52	\$57.05
Total No. Nye & Esmeralda Counties CWMA		231.38	\$6,133.05	\$12,265.91
<i>Golden Gate CWMA</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA</i>
Canning, Stan	hoary cress	0.05	n/a	\$267.94
Uhalde, Gracian	hoary cress	0.14	n/a	\$709.34
Total Golden Gate CWMA & Members		0.19	n/a	\$977.28

<i>Newark-Long Valley CWMA</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA</i>
Cowboys Rest Ranch	<i>leafy spurge; bull thistle; Scotch thistle; hoary cress</i>	21.24	n/a	\$3,722.48
Cowboys Rest Ranch <i>client contributed room & board</i>	<i>leafy spurge</i>	142.64	n/a	\$6,202.57
Goichechea Ranches	<i>leafy spurge; musk thistle; Scotch thistle</i>	0.07	n/a	\$592.89
Graber, Gary	<i>hoary cress</i>	0.04	n/a	\$204.29
Neal, Jack	<i>hoary cress</i>	3.43	n/a	\$843.41
Patterson, Ben	<i>poison hemlock; Russian knapweed</i>	17.10	\$2,769.25	n/a
Scoppettone Ranch	<i>poison hemlock; musk thistle; hoary cress; herbicide purchase</i>	4.70	632.00	\$1,351.60
<i>Newark/Long Valley CMWA Houndstongue (admin fee)</i>				\$24.44
Orchard Canyon	<i>houndstongue; bull thistle; musk thistle; black henbane; hoary cress</i>	0.47	n/a	\$1,003.44
No Name Spring	<i>musk thistle; houndstongue; bull thistle; poison hemlock; Scotch thistle</i>	0.08	n/a	\$711.12
<i>Total Newark/Long Valley CWMA & Members</i>		<i>189.77</i>	<i>\$3,401.25</i>	<i>\$14,656.24</i>
<i>Railroad Valley CWMA</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA</i>
Bradshaw, Norma	<i>Russian knapweed</i>	0.25	n/a	\$211.53
Currant Creek Ranch	<i>perennial pepperweed; Russian knapweed</i>	208.57	n/a	\$6,558.68
Forsgren, Alan	<i>hoary cress; bull thistle; perennial pepperweed; Russian olive; willows</i>	46.25	n/a	\$4,805.30
Higbee, Sam	<i>Russian knapweed</i>	40.99	n/a	\$1,507.91
<i>Total Railroad Valley CWMA & Members</i>		<i>296.06</i>	<i>n/a</i>	<i>\$13,083.42</i>
<i>Snake Valley CWMA</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA</i>
Baker Fire Station	<i>puncture vine</i>	0.01	n/a	\$253.26
Baker Ranches	<i>spotted knapweed; Russian knapweed; houndstongue; Russian olive; tamarisk</i>	2.57	\$70.33	\$3,087.15
Jordan, Ronny	<i>spotted knapweed</i>	4.99	\$82.48	\$292.33
Stedman, Terry	<i>spotted knapweed</i>	0.06	\$70.63	\$185.74
Weisbrot, Ed	<i>musk & bull thistle; hoary cress</i>	3.43	\$50.00	\$776.58
<i>TCWC In-Kind</i>	<i>\$86.28</i>			

Snake Valley CMWA Houndstongue				
Baker Ranches	<i>houndstongue; spotted knapweed</i>	36.09	n/a	\$1,240.35
Home Farm	<i>houndstongue; bull thistle; musk thistle; Scotch thistle; sow thistle</i>	0.45	n/a	\$1,026.58
Hidden Canyon	<i>houndstongue; Canada thistle; musk thistle; bull thistle; sow thistle</i>	6.63	n/a	\$1,388.45
Total Snake Valley CWMA & Members		54.23	\$273.44	\$8,250.44
Spring Valley CWMA	Species Targeted	Acreage	Private Landowner	CWMA
Ahlvers, Fred	<i>hoary cress; Russian knapweed</i>	0.51	n/a	\$309.49
Andrea, Art	<i>foxtails; Canada thistle; bull thistle; herbicide</i>	14.67	n/a	\$1,410.87
Fava, Paul	<i>spotted knapweed</i>	1.27	n/a	\$312.83
Fillman, Pat	<i>bull thistle; Canada thistle; spotted knapweed</i>	4.51	n/a	\$859.76
Parker Ranch	<i>musk thistle; Canada thistle; bull thistle; sow thistle</i>	2.24	n/a	\$1,520.33
Vogler, Hank	<i>musk thistle; wild iris</i>	44.01	n/a	\$3,076.67
Spring Valley CWMA Houndstongue				
Osceola	<i>houndstongue (nwp); spotted knapweed; bull thistle</i>	0.29	n/a	\$1,124.31
Total Spring Valley CWMA & Members		67.50	n/a	\$8,614.26
Steptoe/Butte Valley CWMA	Species Targeted	Acreage	Private Landowner	CWMA
Baker, Nancy	<i>bull thistle</i>	1.98	\$50.00	\$271.11
Bath, Jim	<i>curly dock; bull thistle; musk thistle; Canada thistle; Scotch thistle</i>	6.76	\$299.28	\$1,539.09
Baynes, Harry	<i>Russian knapweed</i>	0.07	n/a	\$102.26
Bradley, Burk	<i>spotted knapweed</i>	0.26	\$50.00	\$222.15
Clayton, Bob	<i>poison hemlock; bareground</i>	0.81	\$50.00	\$413.81
District 4H - Fairgrounds	<i>spotted knapweed</i>	1.16	\$50.00	\$307.70
Ely, City of- Waste Dept.	<i>herbicide</i>	n/a	\$649.20	\$1,514.80
Georgetown Ranch	<i>hoary cress; water hemlock; bull thistle; poison hemlock; curly dock</i>	264.65	\$250.00	\$14,846.89

Godon, Susie	<i>hoary cress; perennial pepperweed; Canada thistle</i>	3.26	\$294.94	\$688.20
Hermansen, Bret	<i>spotted knapweed</i>	1.57	\$50.00	\$308.87
Kemp, Cliff	<i>spotted knapweed; perennial pepperweed</i>	0.16	\$50.00	\$207.08
Kennecott Ranch	<i>hoary cress; bull thistle; musk thistle; Canada thistle; spotted knapweed; bareground</i>	19.47	\$1,051.92	\$5,960.87
Netcher, Janet	<i>spotted knapweed</i>	1.27	\$50.00	\$168.90
Ollila, Shelly	<i>hoary cress</i>	1.00	\$50.00	\$301.70
Paulson, Eric	<i>hoary cress</i>	0.80	\$50.00	\$335.85
Ryan, Maria	<i>halogeton; Russian thistle; kochia</i>	14.75	\$154.55	\$1,079.72
Schellbourne Ranch	<i>musk thistle; Canada thistle; bull thistle, Scotch thistle</i>	1.90	\$233.27	\$544.30
Uhalde, Gracian	<i>hoary cress; musk thistle; bull thistle; spotted knapweed; Canada thistle; Scotch thistle; Russian knapweed</i>	4.50	\$568.78	\$1,902.20
UNR-Coop Ext.- Exp. Plot	<i>labor</i>	4.00	n/a	\$4,336.00
Vaught, Brandon	<i>hoary cress; bull thistle; sow thistle</i>	1.09	n/a	\$174.38
	<i>TCWC in-kind \$50.00</i>			
White Pine Golf Course	<i>water hemlock; hoary cress; bull thistle; morning glory; spotted knapweed; curly dock; poison hemlock; Russian knapweed</i>	69.06	\$272.82	\$3,928.42
Williams, Kevin	<i>hoary cress</i>	0.05	\$50.00	\$104.97
Wolf, Bill	<i>hoary cress</i>	1.63	\$50.00	\$253.28
Total Steptoe/Butte Valley CWMA & Members		400.20	\$4,324.76	\$39,512.55
Upper Meadow Valley CWMA	Species Targeted	Acreage	Private Landowner	CWMA
<i>Upper Meadow Valley Wash</i>	<i>Scotch thistle; bull thistle; yellow pea</i>	1.31	n/a	\$717.86
<i>Upper Meadow Valley drainage</i>	<i>Scotch thistle; hoary cress</i>	0.46	n/a	\$895.17
<i>Hollinger Basin</i>	<i>Scotch thistle</i>	1.02	n/a	\$824.43
<i>Ursine Dump</i>	<i>Scotch thistle; Russian knapweed</i>	0.26	n/a	\$800.82
Total Upper Meadow Valley CWMA & Members		3.05	n/a	\$3,238.28

<i>White River Valley CWMA</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA</i>
Allred, Jim	<i>rabbit brush</i>	22.29	n/a	\$1,396.15
Ashworth, John	<i>hoary cress</i>	0.52	n/a	\$213.16
Baker, Judy	<i>hoary cress; puncturevine; bull thistle</i>	3.12	n/a	\$475.73
Brown, Charlie	<i>hoary cress; Russian knapweed</i>	4.56	n/a	\$775.02
Cannon Ranch	<i>herbicide</i>	n/a	n/a	\$573.00
Carter, Steve	<i>herbicide</i>	n/a	\$166.00	\$1,271.00
Denton, John	<i>hoary cress; herbicide</i>	1.38	n/a	\$367.99
Forest Moon Ranch	<i>Russian knapweed</i>	1.72	n/a	\$1,144.41
Gardner, Brent	<i>herbicide</i>	n/a	\$1,808.00	\$1,270.00
Gubler, Denton	<i>herbicide</i>	n/a	n/a	\$694.00
Gubler, E.H.	<i>herbicide</i>	n/a	\$190.95	\$623.05
Halstead, Dan	<i>hoary cress; herbicide</i>	1.26	n/a	\$1,001.89
Hay U Hay Company	<i>hoary cress; perennial pepperweed; bull thistle; musk thistle; herbicide</i>	0.07	n/a	\$1,031.97
Hendrix, Laine	<i>hoary cress</i>	8.58	n/a	\$683.32
Hendrix, Norris	<i>hoary cress</i>	8.36	n/a	\$583.18
Hyde, Lora	<i>hoary cress; puncturevine</i>	6.03	n/a	\$182.56
Lane, Gary	<i>herbicide</i>	n/a	\$287.00	n/a
Lane, Renea	<i>hoary cress; herbicide</i>	1.90	n/a	\$465.85
Little, Ann	<i>foxtail</i>	0.59	n/a	\$210.45
Lund Irrigation & Water Company	<i>herbicide</i>	0.00	n/a	\$112.00
Macfarlan, Betsy	<i>Russian thistle; bur buttercup; herbicide</i>	39.20	\$318.50	\$1,271.00
Maynard, Cody	<i>hoary cress</i>	0.02	n/a	\$52.74
Maynard, Orvan	<i>herbicide</i>	n/a	n/a	\$578.00
McKenzie, Rod	<i>herbicide</i>	n/a	n/a	\$50.00
Rosevear, Bill	<i>foxtails</i>	5.33	n/a	\$236.21
Seal, Mindy	<i>broadleaf</i>	38.70	n/a	\$1,145.50

White River Valley CWMA Houndstongue				
WRV Houndstongue	<i>houndstongue</i>	0.06	n/a	\$405.20
Lund Lanes	<i>houndstongue; sow thistle; bull thistle; musk thistle</i>	0.63	n/a	\$777.26
White River CWMA (volunteer day)	<i>herbicide</i>	n/a	n/a	\$198.26
Total White River Valley CWMA & Members		144.32	\$2,770.45	\$17,788.90
Total CWMA's & Members		1,386.70	\$16,902.95	\$118,839.28
Total Private Landowners Not Included in the CWMA's		6,214.90	\$228,706.45	n/a

In 2012, Tri-County Weed Control's net income was \$922,916.33. In 2013, Tri-County Weed Control's total income was \$844,848.52, less TCWC in-kind of \$9,975.45, for a net total of \$834,873.07. This is a decrease of approximately 9.55% from 2012.