



TRI-COUNTY WEED CONTROL
133 Fay Avenue – Ely, NV 89301
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2014 SEASON REPORT

For our 2014 seasonal year, TCWC hired seven (7) seasonal employees for inventory, spraying, monitoring and maintenance. We ended the season with five "regular full-time" and one seasonal employee who will help support our winter administrative and maintenance operations.

We updated our computer equipment with a new server and four (4) workstations. The old server was on its last leg but we managed to help it 'serve' its mission until the new server arrived.

We added to our spray fleet by purchasing a 2002 Suzuki mini-truck. We equipped the mini-truck with new spray equipment and ATV tires instead of tracks. We are putting a new engine in one of our 6-wheelers and making modifications to the Toyota. One of the modifications is to have a lay-down boom with articulating arms for the Toyota because we picked up a job requiring us to do two tracks in rough terrain. The articulating arms will help us out tremendously for this project and future projects.

We purchased a 2014 16'x 83" Channel utility trailer to our auxiliary fleet. We also purchased a 2014 Polaris Ranger ATV 6-wheeler to replace some of our aging 6-wheelers.

We purchased two (2) new 2014 Jeep Patriot Sport 4x4 vehicles to add to our inventory fleet. We were able to sell three (3) old inventory vehicles at an auction we had earlier this year.

The drug testing program we implemented in 2012 has proven to be effective in hiring exceptional employees. This season, we sent five applicants for drug screening and happy to say no one failed the drug tests.

For 2014, we had three seasonal employees meet the requirements of receiving a seasonal incentive bonus. We paid \$384.60 to Thomas Tilford; \$461.52 to Brittany Henriod; and \$468.24 to Rope Ashworth 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 sincerely believe this incentive is worth the value it has added to our program.

Tri-County Weed Control's Board of Directors is responsible for broad corporate policy and overall performance. Our Board members oversee the management and stewardship of the company to enhance TCWC's long-term value and vitality. The directors provide input and perspective in evaluating strategic initiatives. They review and, where appropriate, approve fundamental financial and business strategies and major actions, and ensure processes to maintain our company's integrity. We want to thank Paul Mathews (Lincoln County Commissioner); Laurie Carson (White Pine County Commissioner); Lorinda Wichman (Nye County Commissioner); Dick Reason (Nye County landowner); Ray Kretschmer (Nye County landowner); Ronda Hornbeck (Lincoln County landowner); Tom Baker (White Pine County landowner); and Jack Neal (White Pine County land manager) for taking the time out of their busy schedule to serve on our board.

TRI-COUNTY WEED CONTROL OUTREACH AND EDUCATION

In 2014, TCWC logged over 779.5 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 314.5 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 Ninth Annual Winter Weed Workshop on **Battle Born: Ushering Nevada to the Frontline in the War on Invasive Weeds.***
- 2) Bio Releases: This summer we released (80) *Jaapiella ivannikovi* and (127) *Aulacidea acroptilonica* on the Duckwater Shoshone Reservation to help reduce the Russian knapweed infestations.
- 3) TCWC established plots of Payload on NDOT right-of-ways with assistance from Alligare LLC.
- 4) DuPont paid for seeding on the UNR test plot at the Georgetown Ranch.
- 5) Education and Training:
 - Presentation to the White Pine County and Lincoln County Commissioners with Robert Little, Nevada Department of Agriculture on weed abatement(s);
 - Attended The Nevada Rangeland Resources Commission's N-4 Grazing Board meeting;
 - Attended the Western Region Tribal IPM Work Group Meeting via teleconference at the White Pine County Cooperative Extension Office;
 - Attended Barrick's *Hazard/Environmental Training* at Bald Mountain Mine;
 - Attended Barrick's *Contractor Orientation Training*;

- Attended Porter Merrill's 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 2014 *National Public Lands Day Clean-up* for the Ely BLM District Office.
 - Paula Day attended several Nevada Weed Management Association Board meetings continuing her service 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 **20,937,507.48** acres of land in White Pine, Lincoln, Nye, and Clark Counties.

For 2014, TCWC had a 2-man inventory crew. The crew inventoried 1,487,725 acres for noxious weeds for BLM's Ely District in the Tule Desert, Kane Springs Valley, Meadow Valley Wash, Clover Creek, Tikaboo, Pahranaagat Valley, Sand Springs Valley Pahroc Valley, Badger Valley and Delamar Valley from May 7, 2014 through July 23, 2014, using 614.0 man hours. We recorded 155 different occurrences representing 19.06 acres for this year's BLM inventory. The spray crew added an additional 518 points of infestations for 59.0 acres. The crew also logged 1,646.52 miles during these inventory sessions, which does not include travel miles to and from a site

Our crew also completed an inventory project from April 3, 2014, to May 30, 2014, at the Warm Springs Natural Area and Hidden Valley Natural Area for the Southern Nevada Water Authority. Data was collected using Bureau of Land Management protocols. We inventoried 1,297.12 acres and found a total of 233.28 acres of invasive/noxious weed infestations during this project.

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 10th year of TCWC monitoring these sites for the Bureau of Land Management. On April 16, 2014, we began the process of the monitoring of these 42 sites. The monitoring project was completed on May 31, 2014 using 195.0 man hours. All data was collected and added to the previous years' information.

TREATMENTS:

This year, the spray crew consisted of two “full-time regular” licensed applicators plus five “seasonal” sprayers using spray trucks, 6-wheelers, mini-truck and backpack sprayers to meet the needs for the projects. The spray crew began the 2014 season on January 13 and completed its last project on December 12, 2014. In total, the spray crews completed 415 different projects within 7,189.0 man hours.

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	3,937.28	95,449.21
NDOT– Tri-Counties & Clark County	6,135.20	111,549.10
<i>Totals:</i>	<i>10,072.48</i>	<i>206,998.31</i>

The following pages set forth detail information for the work completed during the 2014 season of the TCWC. 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 7,186.5 man hours for completion of TCWC's season.

USDI Bureau of Land Management, Ely District			
Agreement No: L11AC20130		<i>Acres</i>	<i>Income</i>
BLM Ely District Office-bareground treatment		2.60	\$516.00
Inventory (Tule Desert; Kane Springs Valley, Meadow Valley Wash; Clover Creek; Tikaboo; Pahrnagat Valley; Sand Springs Valley; Pahroc Valley; Badger Valley; and Delamar Valley)		1,487,725.00	\$60,000.00
Monitoring (42 sites)		-	\$10,000.00
General Weed Treatments	Sup 0003, Treat 3	77.33	\$12,711.80
Tule Desert Treatments	Sup 0004, Treat 1	154.87	\$36,547.13
Range Fire Treatments	Sup 0004, Treat 2	598.73	\$12,502.28
Range Fire Treatments	Sup 0004, Treat 3	787.48	\$12,502.28
General Weed Treatments	Sup 0005, Treat 1	539.48	\$87,451.22
General Weed Treatments	Sup 0005, Treat 2	78.63	\$18,286.43
Railroad Valley Weed Treatments	Sup 0005	296.63	\$23,696.21
Meadow Valley Wash Weed Treatments	Sup 0006, Treat 1	6.32	\$6,994.70
Steptoe Valley Weed Treatments	Sup 0007, Treat 1	7.54	\$1,964.42
Railroad Valley Weed Treatments	Sup 0008, Treat 1	8.57	\$5,085.89
White River Valley Weed Treatments	Sup 0009, Treat 1	7.55	\$4,475.02
Fuel Breaks Weed Treatments	Sup 0010, Treat 1	104.77	\$9,139.52
Sampson Fire Weed Treatments	Sup 0011, Treat 1	72.57	\$3,015.10
Parsnip Peak Weed Treatments	Sup 0014, Treat 1	8.14	\$4,679.28
Agreement No: L11AC20139 Meadow Valley Wash		<i>Acres</i>	<i>Income</i>
Weed Treatments	Sup 0001 Treat 3	76.93	\$40,936.08
Weed Treatments	Sup 0001 Treat 4	5.97	\$3,401.99
Agreement No: L11AC20200 White River Valley		<i>Acres</i>	<i>Income</i>
Weed Treatments	Treat 8	198.62	\$23,995.91
Total for Bureau of Land Management		1,490,757.73	\$377,901.26

Other Government Entities			
Ely State Prison	<i>bareground</i>	7.61	\$1,607.17
USF&W (Bobby Allison, Carp)	<i>perennial pepperweed</i>	11.30	\$2,000.00
<i>TCWC In-kind</i>	<i>\$911.60</i>		
US Forest Service	herbicide	n/a	\$768.00
<i>Total for Other Government entities</i>		<i>18.91 a</i>	<i>\$4,375.17</i>
Nevada Department of Transportation			
Clark County & Tri-Counties <i>(spring)</i>	<i>(details listed below)</i>	27.26	\$11,903.26
Tri-Counties & Clark County	<i>(details listed below)</i>	792.33	\$64,199.09
<i>Total for Nevada Department of Transportation</i>		<i>819.59 a</i>	<i>\$76,102.35</i>

Summary of State Highways in Clark County Treated in 2014 by Tri-County Weed Control

Hwy 95 S. of Las Vegas – Weeds that are known to be present are Sahara mustard, salt cedar, spotted knapweed and African rue. 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. African Rue was found and treated next to the on ramp of 95 and 93 between Railroad Pass Casino and Boulder City in 2013.

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 was found and treated between MM 95 and MM 132 in the spring of 2014.

Hwy 160 – Weeds known to be present are Russian knapweed, Malta starthistle, Sahara mustard and Scotch thistle. Heavy shoulder work were Sahara mustard usually found. Malta starthistle and Russian knapweed found and treated on Mountain Springs Summit. Malta starthistle and Sahara mustard treated between Mountain Spring Summit and county line.

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 also are scattered patches from mile marker 0 to mile marker 15. Sahara mustard currently not being treated.

Hwy 164 – Weeds that are known to be present are Malta starthistle and Sahara mustard. Both exist in and around the material yard in Searchlight. For 2014, no weeds present at this time.

Hwy 168 – Weeds known to be present are Sahara mustard, Malta starthistle, salt cedar and Russian knapweed. Sahara mustard and Malta starthistle were found and treated. Russian knapweed was not treated due to heavy flooding and shoulder work going on in treatment sites.

Hwy 169 – Weeds that are known to be present are Sahara mustard, salt cedar, Russian knapweed and Malta starthistle. Small infestations of Malta starthistle and Sahara mustard treated in 2014.

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 currently on Sahara mustard.

I-15 – Weeds that are known to be present are Malta starthistle, Russian knapweed and Sahara mustard. No treatments took place in 2014 due to heavy road work throughout infested areas.

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. 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. No weeds present in 2014.

MS 09-04 – Sahara mustard has been treated in the past. No weeds present in 2014.

MS 11-06 – There has been a small infestation of Sahara mustard in the past. For 2014, not treated, site was in use.

MS 18-2 – For 2014, no weeds present at this time.

MS 18-3 – For 2014, not treated, site was in use.

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 2014, no weeds present at this time for retreat.

MS 25-1 – Weeds have been treated in the past are Sahara mustard, salt cedar and Malta starthistle. For 2014, no weeds present.

MS 32-02 – Not treated in 2014.

MS 47-03 – For 2014, not treated, site in use.

MS 47-04 – Found and treated Sahara mustard in 2014.

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 has been weed free, but with a possibility of salt cedar regeneration in the active areas. Not treated in 2014.

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. No treatments in 2014.

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 2014, only small, scattered patches of Malta starthistle and Sahara mustard found and treated along with a new patch of Johnson grass.

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 2014, no weeds present at this time.

OBSERVATIONS OF THE 2014 SEASON

Extreme low precipitation levels for winter and spring resulted in poor germination, especially in the annuals and bi-annuals, such as Sahara mustard and Scotch thistle; however, the high precipitation levels from October to December could result in heavy infestations for 2015. The targeted species were Malta starthistle, Sahara mustard and Russian knapweed.

Summary of State Highways in Lincoln, Nye & White Pine Counties Treated in 2014 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 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 Black Rock Station. 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. Russian knapweed between Blackjack and White River Road. Treated phragmites west side of Currant.

Hwy 6 – Tonopah –Scotch thistle treated near Hot Creek.

Hwy 50 – 6 east of Ely – One small patch of perennial pepperweed was found near the Sheriff's office. 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 Sacramento Pass and Majors Junction. The spotted knapweed starts thinning to the east of Junction 893. Infestations pick-up again at Osceola increasing in density over Sacrament 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 hoary cress. 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. Treatment extended to Middlegate. Musk thistle, spotted knapweed, and hoary cress treated on Pinto Summit into Diamond Valley. Musk thistle, spotted knapweed, and hoary cress treated on Bobscott 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, spotted knapweed 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. Sahara mustard was treated 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 Beatty and ending north of the county line. Unable to treat entire road from Tonopah to Beatty due to road construction.

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 2014.

Hwy 317 – Weeds that are known to be present are spotted knapweed, hoary cress, Scotch thistle, poison hemlock, and perennial pepperweed. No spotted knapweed found this year.

Hwy 318 – Weeds that are known to be present are spotted knapweed, hoary cress, Russian knapweed, Dalmatian toadflax, Scotch thistle, must 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 2014.

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. No Russian knapweed, spotted knapweed or perennial pepperweed found this year.

Hwy 320 – Weeds that are known to be present are spotted knapweed, musk thistle, Dalmatian toadflax and Scotch thistle. Dalmatian toadflax, spotted knapweed and Scotch thistle treated in 2014.

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. Puncture vine treated from Ersine to the reservoir in 2014.

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 2014.

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. Russian knapweed treated in 2014.

Hwy 373 – No weeds present in 2014.

Hwy 374 – No weeds present in 2014.

Hwy 375 – Treated small infestation of Russian knapweed northwest of Rachel.

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 near Round Mountain. Hoary cress and

Russian knapweed treated in Carvers. A point of Russian knapweed treated north of Nye/Lander County line.

Hwy 377 – This highway was not treated in 2014.

Hwy 379 – There are small patches of both hoary cress and Russian knapweed. Russian knapweed was only weed found and treated in 2014.

Hwy 487 - Spotted knapweed and Scotch thistle treated in 2014.

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. Hoary cress and spotted knapweed treated between mile marker 0 and mile marker 8.

Hwy 844 – No weeds present in 2014.

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 and Scotch thistle were found and treated.

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

Hwy 894 – Scotch thistle and spotted knapweed were treated this year along this route.

Hwy 895 – Not treated in 2014.

Hwy 168 – Russian knapweed is known to be present at the Glendale interchange in the Moapa Valley and next to the Warm Springs Ranch. Not treated due to flooding and road construction.

Ely Station – Spotted knapweed was treated at this station in 2014.

OBSERVATIONS OF THE 2014 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.

In 2013, Tri-County Weed traversed 4,233.06 miles, covered 76,964.72 gross acres, and treated 377.9 acres for NDOT at a cost of \$65,764.94. In 2014, Tri-County Weed logged 6,135.2 miles, covered 111,549.1 gross acres, and treated 819.59 acres at a cost of \$76,102.35. This was an increase of approximately 116% in the number of acres treated from the previous year.

Miscellaneous Income		
<i>Source</i>	<i>Description</i>	<i>Amount</i>
Money Market Interest Income	<i>Mellon Investments & Wells Fargo Securities</i>	\$771.72
BP Livestock	<i>GPS unit; laptop</i>	\$750.00
<i>Less equip. rental</i>		\$-750.00
DuPont	<i>pasture blend seed</i>	\$445.00
Gledhill, Charles	<i>1994 Suzuki SideKick</i>	\$551.00
Herrera, Ross	<i>(2) 2000 Jeep Cherokees</i>	\$2,529.00
Nevada No. Railway	<i>paid invoice written off in 2011</i>	\$1,462.20
Total Miscellaneous Income		\$5,758.92

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>hoary cress; musk thistle; Scotch thistle; bull thistle; bindweed</i>	138.85	\$12,440.94	\$359.82
Subcontract #X0391- Well Sites	<i>Russian thistle; halogeton; bareground; general</i>	5.21	\$5,740.37	n/a
SNWA Warm Springs & Hidden Valley	<i>Inventory</i>	1,297.12	\$12,000.00	n/a
Subcontract #X0355- Warm Springs <i>TCWC In-kind</i>	<i>perennial pepperweed; Russian knapweed; bareground; hoary cress; Malta starthistle; Johnson grass; silver nightshade</i> <i>\$57.96</i>	206.38	\$52,012.65	n/a
Total Southern Nevada Water Authority		1,647.56	\$82,193.96	\$359.82
PRIVATE LANDOWNERS BY COUNTIES				
<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>general; hoary cress; perennial pepperweed; spotted knapweed</i>	30.36	\$3,155.77	n/a
Tonopah Water District	<i>bareground</i>	3.25	\$1,364.78	n/a
Total Nye County Landowners		33.61	\$4,520.55	n/a

White Pine County	Species Targeted	Acreage	Private Landowner	CWMA
Apex Pest Control	<i>herbicide</i>	n/a	\$3,467.80	n/a
Barrick – <i>Bald Mountain Cold Creek Camp</i>	<i>bareground</i>	25.64	\$4,458.00	n/a
Barrick- <i>Bald Mountain Mine Spring (includes \$321.57 for MSHA training & lodging)</i>	<i>musk thistle; Canada thistle; bull thistle; Scotch thistle; bareground; hoary cress; black henbane</i>	86.0	\$32,145.32	n/a
Barrick- <i>Bald Mountain Mine Fall</i>	<i>bareground; bull thistle; musk thistle; spotted knapweed</i>	60.60	\$13,604.68	
Duckwater Shoshone Tribe (<i>spring treatment</i>)	<i>bull thistle; Russian knapweed; perennial pepperweed; water hemlock; hoary cress</i>	375.77	\$34,260.78	n/a
Duckwater Shoshone Tribe <i>TCWC In-kind</i> <i>TCWC In-kind Seed</i>	<i>Russian knapweed; hoary cress; perennial pepperweed; bull thistle; Canada thistle; phragmites</i> \$2,002.56 \$2,920.00	200.46	\$25,739.22	n/a
Kirkeby, Kaye	<i>bareground (client provided chemical)</i>	n/a	\$50.50	n/a
Ostlund, Bob	<i>herbicide</i>	n/a	\$12.41	n/a
Reck Brothers	<i>bareground</i>	2.61	\$346.37	n/a
Winter, Sandra	<i>bareground</i>	2.39	\$423.63	n/a
Total White Pine County Landowners		753.47	\$114,508.71	n/a
Tonopah Conservation District	Species Targeted	Acreage	Private Landowner	CWMA
Battle Mountain BLM	<i>hoary cress; musk thistle; perennial pepperweed; Scotch thistle; musk thistle; Russian knapweed</i>	2,190.50	\$87,777.16	n/a
Carver Rodeo Grounds	<i>bareground</i>	4.73	\$346.96	n/a
Share for No. Nye/Esmeralda CWMA (<i>please see below</i>)	<i>please see below</i>	n/a	\$4,401.05	<i>see below</i>
Total Tonopah Conservation District		2,195.23	\$92,525.17	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>
Belmont, Town of	<i>Scotch thistle</i>	0.04	\$50.79	\$101.58
Berg, Ron & Josh	<i>alfalfa; hoary cress; general</i>	128.36	\$3,777.98	\$1,543.79
Dirty Dicks Saloon	<i>Scotch thistle</i>	0.04	\$50.79	\$101.58
Kretschmer, Ray	<i>hoary cress; perennial pepperweed</i>	16.98	\$309.44	\$618.88
Marsh, Jim	<i>Scotch thistle</i>	0.01	\$50.55	\$101.09
Monitor Ranch	<i>Russian knapweed; hoary cress; perennial pepperweed</i>	124.23	\$3,116.95	\$6,047.99
<i>TCWC-In-kind</i>	<i>\$558.88</i>			
Motis, Rick	<i>bareground</i>	2.30	\$602.14	n/a
Terras, T.E.	<i>bull thistle</i>	0.01	\$50.64	\$101.28
Total No. Nye & Esmeralda Counties CWMA		271.97	\$8,009.28	\$8,616.19
<i>Golden Gate CWMA</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA</i>
Uhalde, Gracian	<i>hoary cress; musk thistle; bull thistle; Scotch thistle; alfalfa</i>	50.99	\$727.24	\$2,047.95
Total Golden Gate CWMA & Members		50.99	\$727.24	\$2,047.95
<i>Newark-Long Valley CWMA</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA</i>
Cowboys Rest Ranch	<i>herbicide</i>	n/a	n/a	\$3,132.00
Total Newark/Long Valley CWMA & Members		n/a	n/a	\$3,132.00
<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>	0.07	n/a	357.63
Currant Creek Ranch	<i>perennial pepperweed; hoary cress; salt cedar</i>	36.98	n/a	\$3,118.82
Currant Creek Ranch	<i>herbicide</i>	n/a	\$614.00	n/a
Drayton, Carolyn	<i>bull thistle; perennial pepperweed; puncture vine; tule</i>	1.41	n/a	\$552.31
Forsgren, Alan	<i>hoary cress; bull thistle; perennial pepperweed; Russian knapweed</i>	1.07	n/a	\$516.67
Higbee, Sam	<i>Russian knapweed</i>	106.18	n/a	\$3,865.58
Total Railroad Valley CWMA & Members		145.71	\$614.00	\$8,411.01

<i>Snake Valley CWMA</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA</i>
Snake Valley CWMA	<i>backpacks</i>	n/a	n/a	\$97.75
Baker Ranches	<i>houndstongue; spotted knapweed; puncture vine; bull thistle; Russian olive; salt cedar; Russian knapweed</i>	2.85	\$2076.40	\$2,250.00
Baker Ranches	<i>herbicide</i>	n/a	\$64.20	\$127.80
Gonder, Daisy	<i>Russian olive; puncture vine; bull thistle; spotted knapweed; Scotch thistle; musk thistle</i>	4.48	n/a	\$559.64
Gonder, Dawn	<i>spotted knapweed; Russian olive</i>	0.07	n/a	\$117.26
Hidden Canyon Ranch	<i>bull thistle; houndstongue; Canada thistle; musk thistle</i>	3.94	n/a	\$1,360.46
Home Farm	<i>houndstongue; bull thistle; musk thistle; Scotch thistle; sow thistle</i>	0.35	n/a	\$1,068.44
Jordan, Ronny	<i>spotted knapweed</i>	3.33	\$88.81	\$349.26
Town of Baker	<i>puncture vine</i>	2.55	n/a	\$464.44
Weisbrot, Ed	<i>bull thistle; musk thistle; hoary cress</i>	0.31	n/a	\$322.41
<i>Total Snake Valley CWMA & Members</i>		<i>17.88</i>	<i>\$2,229.41</i>	<i>\$6,717.46</i>
<i>Spring Valley CWMA</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA</i>
Ahlvers, Fred	<i>hoary cress; Russian knapweed</i>	1.18	n/a	\$521.23
Ahlvers, Fred	<i>herbicide</i>	n/a	n/a	\$58.45
Andrea, Art	<i>puncture vine</i>	5.51	n/a	\$688.18
Andrea, Art	<i>herbicide</i>	n/a	n/a	\$18.85
Cleveland Ranch	<i>herbicide</i>	n/a	\$3,528.18	\$359.82
Fillman, Pat	<i>herbicide</i>	n/a	n/a	\$225.66
Parker Ranch	<i>musk thistle; Canada thistle; bull thistle</i>	1.66	n/a	\$1,427.08
Vogler, Hank	<i>wild iris</i>	58.51	\$1,795.56	\$1,250.00
<i>Spring Valley CWMA Houndstongue</i>				
Osceola	<i>houndstongue (nwp); spotted knapweed; bull thistle; musk thistle; hoary cress</i>	1.04	n/a	\$614.69
<i>Total Spring Valley CWMA & Members</i>		<i>67.90</i>	<i>\$5,323.74</i>	<i>\$5,163.96</i>
<i>Step toe/Butte Valley CWMA</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA</i>
Barber, Heather	<i>hoary cress</i>	0.21	\$50.00	\$151.27
Bartlett, Bob	<i>herbicide</i>	n/a	\$50.00	\$38.80
Bristlecone Apartments	<i>Scotch thistle; hoary cress</i>	0.12	\$50.00	\$103.32

Carson, Laurie	<i>Russian olive; cheat grass; bareground</i>	3.56	\$50.00	\$465.11
Clayton, Bob	<i>bull thistle; poison hemlock; bareground</i>	1.03	\$50.00	\$175.98
Conner, Rod	<i>musk thistle; bull thistle; bareground</i>	0.13	\$50.00	\$257.27
Cox, Andrea	<i>hoary cress</i>	0.09	\$50.00	\$111.58
Derbidge, Gretchen	<i>hoary cress</i>	0.10	\$50.00	\$57.22
District 4H - Fairgrounds	<i>spotted knapweed</i>	1.95	\$50.00	\$272.08
Ely, City of- Waste Dept.	<i>herbicide</i>	n/a	\$648.00	\$1,512.00
ENLC	<i>Granite Seed</i>	n/a	n/a	\$506.34
Georgetown Ranch	<i>poison hemlock; hoary cress; sow thistle</i>	80.32	\$500.00	\$6,302.69
Godon, Susie	<i>hoary cress</i>	2.70	\$96.09	\$557.54
Godon, Susie	<i>herbicide</i>	n/a	n/a	\$52.50
Harruff, Gaylord	<i>hoary cress</i>	4.63	\$50.00	\$138.65
Hermansen, Bret	<i>hoary cress</i>	0.10	\$50.00	\$126.36
Kennecott Ranch	<i>hoary cress; spotted knapweed; water hemlock; musk thistle; Canada thistle; bull thistle; bareground</i>	14.11	\$855.60	\$1,996.41
Manchester, Delores	<i>hoary cress</i>	0.38	\$50.00	\$256.85
Netcher, Janet	<i>spotted knapweed</i>	1.20	\$50.00	\$119.30
Ollila, Shelly	<i>hoary cress</i>	1.25	\$50.00	\$320.58
Oxborrow, Tom	<i>hoary cress</i>	4.15	\$50.00	\$308.75
Paulson, Eric	<i>hoary cress</i>	0.81	\$50.00	\$442.20
Robison, Doug	<i>hoary cress</i>	1.00	\$50.00	\$135.10
Schellbourne Ranch	<i>musk thistle; bull thistle; hoary cress; Canada thistle</i>	7.83	\$223.90	\$855.75
Tehoma Creek Ranch	<i>musk thistle; hoary cress; Canada thistle; rabbit brush</i>	10.84	\$1,089.34	\$823.49
Uhalde, Gracian	<i>hoary cress; spotted knapweed; musk thistle; Canada thistle; bull thistle; Scotch thistle</i>	1.42	\$397.03	\$1,259.50
UNR-Coop Ext.- Exp. Plot	<i>pasture blend (seeding)</i>	n/a	n/a	\$662.21
Valley View RV Park	<i>hoary cress</i>	0.50	\$50.00	\$166.35

Vaught, Brandon	<i>bull thistle; bareground; hoary cress</i>	3.00	\$50.00	\$432.79
White Pine Golf Course	<i>spotted knapweed; hoary cress; poison hemlock; Russian knapweed; Dalmatian toadflax;</i>	13.34	\$759.13	\$1,771.30
Wolf, Bill	<i>bareground</i>	1.66	\$302.00	n/a
Total Steptoe/Butte Valley CWMA & Members		156.43	\$5,821.09	\$20,379.29
Upper Meadow Valley CWMA	Species Targeted	Acreage	Private Landowner	CWMA
Ursine	<i>no weeds present</i>	0.00	n/a	\$101.00
Total Upper Meadow Valley CWMA & Members		0.00	n/a	\$101.00
White River Valley CWMA	Species Targeted	Acreage	Private Landowner	CWMA
Brown, Charlie	<i>Russian knapweed</i>	0.56	n/a	\$322.96
Denton, John	<i>herbicide</i>	n/a	\$65.40	n/a
Forest Moon Ranch	<i>Russian knapweed</i>	6.14	n/a	\$955.98
Gardner, Brent	<i>Herbicide</i>	n/a	\$5,695.00	\$35.00
Jensen, Darrin	<i>herbicide</i>	n/a	n/a	\$2,639.00
Lane, Gary	<i>herbicide</i>	n/a	\$744.00	n/a
Rosevear, Tom	<i>herbicide</i>	n/a	\$268.00	\$35.00
White River Valley CWMA Houndstongue				
WRV Houndstongue	<i>houndstongue</i>	4.94	n/a	\$556.54
White River CWMA	<i>herbicide</i>	n/a	n/a	\$980.00
White River CWMA (volunteer day)	<i>herbicide</i>	n/a	n/a	\$255.47
Total White River Valley CWMA & Members		11.64	\$6,772.40	\$5,779.95
Total CWMA's & Members		722.52	\$41,938.10	\$60,708.63
Total Private Landowners Not Included in the CWMA's		4,629.87	\$281,307.45	n/a

In 2013, Tri-County Weed Control's net income was \$834,873.07. In 2014, Tri-County Weed Control's total income was \$852,341.10, less TCWC in-kind of \$4,249.17, for a net total of \$848,091.93. This is an increase of approximate 1.6% from 2013.