



TRI-COUNTY WEED CONTROL
133 Fay Avenue – Ely, NV 89301
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2015 SEASON REPORT

For our 2015 seasonal year, TCWC hired seven seasonal employees for inventory, spraying, monitoring and maintenance. We also utilized Bert Paris, BP Livestock, whose services were a tremendous benefit this season. We ended the season with five "regular full-time" employees, who will help support our winter administrative and maintenance operations.

We did have to replace one of our trailers that was totaled due to an accident in late July. We purchased a 2016 18x83' PJ Trailer from Wasatch Trailers out of Salt Lake City. Our 2007 Dodge Ram 3500 spray pickup was also severely damaged resulting in us having to rent a pickup from Barco Rental out of Salt Lake City for five months.

For 2015, we paid one seasonal employee \$196.12 from the Seasonal Incentive Program. We had two seasonal employees lose their incentive due to accidents. We are still committed in continuing this program in the future rewarding seasonal employees 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. Also, this season we sent seven applicants for drug screening and happy to say no one failed the drug test this year.

Tri-County Weed Control's Board of Directors is responsible for broad corporate policies 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. This year the TCWC board voted to update our Cooperative Agreement to add three alternate board members. On given occasions, members of the Noxious Weed Management Program Board of Directors may be faced with a conflict of interest in scheduling, prohibiting him/her in attending a board meeting. This situation may make it difficult to obtain a majority of the board to move an action forward, or to take a final action. This problem was resolved through the appointment of the alternate members to serve in such circumstances. Our board currently consists of 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); Jack Neal (White Pine County land manager); Steve Meldrum (Lincoln County Land Owner) and alternates, Tim Carlo (Southern Nye County Land Owner) and Gary Perea (White Pine County Commissioner). We want to thank our board for taking the time out of their busy schedule to serve on our board and welcome Steve and Tim.

TRI-COUNTY WEED CONTROL OUTREACH AND EDUCATION

In 2015, TCWC logged over 463.0 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 165.0 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 Tenth 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) Education and Training:
 - Attended The Nevada Rangeland Resources Commission's N-4 Grazing Board meetings;
 - 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)*;
 - Attended the *2015 Nevada Weed Management Associations' Conference* in Sparks, Nevada;
 - Attended the *2015 Medusahead Symposium* in Sparks, Nevada;
 - Presentation to the Tonopah Conservation District's Board of Directors on the noxious weeds in Nye and Esmeralda Counties.
- 4) Community Outreach:
 - Assisted at the *White River Valley CWMA's Weed Treatment Volunteer Day* in Lund.
 - This year, Paula Day attended several Nevada Weed Management Association Board meetings; helped coordinate the 2015 Medusahead Symposium and 2015 NWMA Conference; and was re-elected as their 2016-2018 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 21,864,097.99 acres of land in White Pine, Lincoln, Nye, and Clark Counties.

For 2015, TCWC had a 2-man inventory crew. The crew inventoried 892,727.8 acres for noxious weeds for BLM's Ely District in the Delamar Mountains, Chief Range, Highland Range, Lake Valley, Meadow Valley, Cedar Range, Eagle Valley, and the Panaca Hills from May 26, 2015 through July 21, 2015, using 546.0 man hours.

July 29, 2015, we started the inventory of BLM's Black Fire; Lages Fire; Middle Ridge Fire; North Creek Fire, North Schell Fire; Pinto Fire; and Sampson Fire areas. We completed the 33,862.71 acres of inventory on September 16, 2015, using 748.0 man hours.

For 2015, we recorded 747 different occurrences representing 200.68 acres for this year's BLM inventory. The spray crew added an additional 304 points of infestations for 45.68 acres. The inventory crew logged 1,146.99 miles during these inventory sessions, which does not include travel miles to and from a site

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 May 20, 2015, we began the process of the monitoring of these 42 sites. The monitoring project was completed on July 7, 2015 using 263.0 man hours. All data was collected and added to the previous years' information.

TREATMENTS:

This year, the spray crew consisted of four "full-time regular" licensed applicators plus five "seasonal" sprayers using spray trucks, 6-wheelers, mini-truck, horses/mules, and backpack sprayers to meet the needs for the projects. The spray crew began the 2015 season on February 2 and completed its last project on December 10, 2015. In total, the spray crews completed 500 different projects within 8,490.0 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	3,142.52	76,182.30
NDOT– Tri-Counties & Clark County	7,145.65	129,920.91
Totals:	10,288.17	206,103.21

The following pages set forth detail information for the work completed during the 2015 season of the TCWC. This work was completed with 8,490.0 hours for weed treatment; 1,294.0 hours for inventory; and 263.0 hours for monitoring for a grand total of 10,047.0 man hours for completion of TCWC's season.

USDI Bureau of Land Management, Ely District			
Agreement No: L11AC20130		<i>Acres</i>	<i>Income</i>
Inventory, Sup 0015 (<i>Delamar Mountains; Chief Range; Highland Range ; Lake Valley; Meadow Valley; Cedar Range; Eagle Valley; Panaca Hills</i>)		892,727.80	\$53,000.00
Monitoring (42 sites) Sup 0015		n/a	\$10,000.00
Tule Desert Treatments	Sup 0004, Treat 2	769.52	\$54,618.49
Tule Desert Treatments (<i>no weeds present</i>)	Sup 0004, Treat 3	0.00	\$2,861.30
Range Fire Treatments	Sup 0004, Treat 4	643.14	\$12,502.27
<i>TCWC In-kind</i>		<i>\$17,015.72</i>	
General Treatments	Sup 0005, Treat 3	52.53	\$12,161.35
Meadow Valley Treatments	Sup 0006, Treat 2	66.71	\$26,932.51
Meadow Valley Treatments	Sup 0006, Treat 3	13.10	\$2,138.09
Meadow Valley Treatments	Sup 0006, Treat 4	5.10	\$4,826.45
Step toe Valley Treatments	Sup 0007, Treat 2	403.23	\$51,035.58
Railroad Valley Treatments	Sup 0008, Treat 2	372.47	\$28,972.48
Railroad Valley Treatments	Sup 0008, Treat 3	19.18	\$3,552.80
White River Valley Treatments	Sup 0009, Treat 2	59.00	\$19,514.16
White River Valley Treatments	Sup 0009, Treat 3	10.00	\$4,141.70
White River Valley Treatments	Sup 0009, Treat 4	0.41	\$3,835.02

USDI Bureau of Land Management, Ely District			
East Schell Fire Treatments	Sup 0010, Treat 1	800.00	\$40,250.00
<i>TCWC In-kind</i>	<i>\$5,386.43</i>		
Fuel Breaks Treatments	Sup 0010, Treat 2	264.84	\$16,786.19
Fuel Breaks Treatments	Sup 0010, Treat 3	458.93	\$24,074.29
Becky's Fire Treatments	Sup 0011, Treat 1	71.30	\$8,509.04
Sampson Fire Treatments	Sup 0011, Treat 2	42.60	\$6,327.45
Kern Mountain Fire Treatments	Sup 0012, Treat 1	50.61	\$11,826.12
Kern Mountain Fire Treatments	Sup 0012, Treat 2	13.98	\$19,504.81
Fires Inventory (<i>Black Fire; Lages Fire; Middle Ridge Fire; North Creek Fire; North Schell Fire; Pinto Fire; and Sampson Fire</i>)	Sup 0013	33,862.71	\$56,500.00
<i>TCWC In-kind</i>	<i>\$648.00</i>		
Parsnip Peak Treatments	Sup 0014, Treat 2	495.78	\$14,320.72
Lincoln County Wilderness Treatments	Sup 0015, Treat 1	0.25	\$6,104.02
Lincoln County Wilderness Treatments	Sup 0015, Treat 2	0.05	\$33,895.98
<i>TCWC In-kind</i>	<i>\$8,434.32</i>		
General Treatments	Sup 0015, Treat 1	271.59	\$84,883.17
General Treatments	Sup 0015, Treat 2	7.12	\$7,237.96
Total for Bureau of Land Management		931,481.95	\$620,311.95

Other Government Entities			
Ely State Prison	<i>bareground</i>	8.57	\$1,648.23
USF&W (Bobby Allison, Carp)	<i>fence-NDF</i>	n/a	\$2,410.32
USF&W (Bobby Allison, Carp)	<i>perennial pepperweed</i>	9.46	\$3,832.63
USF&W (Bobby Allison, Carp)	<i>salt cedar; perennial pepperweed</i>	7.35	\$2,856.78
US Forest Service	herbicide	n/a	\$384.00

<i>Total for Other Government entities</i>		<i>25.38</i>	<i>\$11,131.96</i>
Nevada Department of Transportation			
Clark County	<i>(details listed below)</i>	30.32	\$13,859.99
Tri-Counties & Clark County	<i>(details listed below)</i>	617.13	\$78,246.02
<i>Total for Nevada Department of Transportation</i>		<i>647.45</i>	<i>\$92,106.01</i>

Summary of State Highways in Clark County

Treated in 2015 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 treated next to the on ramp of 95 and 93 between Railroad Pass Casino and Boulder City in 2015.

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 in small patches from Las Vegas to south of Indian Springs.

Hwy 160 – Weeds known to be present are Russian knapweed, Malta starthistle, Sahara mustard and Scotch thistle. Only Sahara mustard and Russian knapweed were found and treated in 2015.

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 2015, 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 found in 2015.

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 Russian knapweed treated in 2015.

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. A few infestations of silverleaf nightshade were found and treated along with Malta starthistle. No Russian knapweed was found this year.

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 2015.

MS 09-04 – Sahara mustard has been treated in the past. No weeds present in 2015.

MS 11-06 – There has been a small infestation of Sahara mustard in the past. For 2015, not treated, site was in use.

MS 18-2 – For 2015, no weeds present at this time.

MS 18-3 – For 2015, 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 2015, 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 2015, only Sahara mustard found and treated at this time.

MS 32-02 – For 2015, no weeds present at this time.

MS 47-03 – For 2015, no weeds present at this time.

MS 47-04 – Found and treated Sahara mustard in 2015.

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 2015.

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 2015.

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 2015, only scattered patches of Malta starthistle and Sahara mustard found and treated.

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 2015, no weeds present at this time.

OBSERVATIONS OF THE 2015 SEASON

Fall precipitation caused major flooding events in Clark County; however, 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. The targeted species were Malta starthistle, Sahara mustard and Russian knapweed.

Summary of State Highways in Lincoln, Nye & White Pine Counties Treated in 2015 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. 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 Summit.

Hwy 6 – Tonopah – For 2015, no weeds present at this time.

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 Connors Summit. Spotted knapweed occurs in small patches from Ely to Connors 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 Sacramento Pass to the rest area and thinning to small patches ending at the Maintenance Station. No Russian knapweed was found this year. A new infestation of Dalmatian toadflax was found and treated on Connor Pass.

Hwy 50 west of Ely – Weeds that are known to be present are spotted knapweed, diffuse knapweed, musk thistle, Scotch thistle, and hoary cress. Two new points of Dalmatian toadflax were found and treated; one in Long Valley and one in Newark Valley. 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 and spotted knapweed. 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 Bob Scott Summit. Spotted knapweed treated near Middle Gate. Musk thistle treated in Reese River Valley.

Hwy 93 north of Ely – Weeds that are known to be present are spotted knapweed, hoary cress, musk thistle, Scotch thistle, water hemlock, Canada 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, Canada thistle, water hemlock, and Scotch thistle from Hwy 490 to Lagos Junction. 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. No weeds were found south of Alamo to the Clark County line. 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 Clark County line. Scotch thistle was treated north of Beatty.

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 and in the material site near the junction of Hwy 160 & 95.

Hwy 267 – No weeds present in 2015.

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, 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 2015.

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. Spotted knapweed and Scotch thistle treated in 2015.

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.

Hwy 322 – Weeds that are known to be present are Dalmatian toadflax, spotted knapweed and Scotch thistle. Spotted knapweed treated around Junction 93. Puncture vine treated from Ersine to the reservoir in 2015. Scotch thistle treated along entire route. A new infestation of hoary cress was found and treated just east of 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 2015.

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 or Russian knapweed were found in 2015.

Hwy 373 – No weeds present in 2015.

Hwy 374 – No weeds present in 2015.

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. Russian knapweed and perennial pepperweed treated north of Nye/Lander County line.

Hwy 377 – This highway was not treated in 2015.

Hwy 379 – There are small patches of both hoary cress and Russian knapweed. Perennial pepperweed was found this year and treated along with hoary cress. No Russian knapweed was found in 2015.

Hwy 487 - Spotted knapweed and Scotch thistle treated in 2015. Water hemlock treated in Baker.

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 spotted knapweed were treated but no Russian knapweed was found in 2015.

Hwy 844 – No weeds present in 2015.

Hwy 722 – Hoary cress and Russian knapweed were found and treated in 2015.

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 patches of hoary cress, water hemlock, and musk 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 – Musk thistle and spotted knapweed were treated this year along this route.

Hwy 895 – Not treated in 2015.

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 weeds found in 2015.

Ely Station – Spotted knapweed was treated at this station in 2015.

OBSERVATIONS OF THE 2015 SEASON

Very little moisture early on resulted in slow green-up; however, late May and June storms brought on significant weed growth, especially spotted knapweed. Early snows caused difficult conditions for treatment of Dalmatian toadflax in the Pioche area.

In 2014, Tri-County Weed traversed 6,135.2 miles, covered 111,549.1 gross acres, and treated 819.59 acres for NDOT at a cost of \$76,102.35. In 2015, Tri-County Weed logged 7,145.65 miles, covered 129,920.91 gross acres, and treated 617.13 acres at a cost of \$78,246.02. This was a decrease of approximately 32.8% in the number of acres treated from the previous year.

Miscellaneous Income		
<i>Source</i>	<i>Description</i>	<i>Amount</i>
Miscellaneous Reimbursements	<i>POOL</i>	\$4,687.96
Money Market Interest Income	<i>Mellon Investments & Wells Fargo Securities</i>	\$964.61
BP Livestock	<i>Spray parts & 6-wheeler parts</i>	\$546.40
Stewart, Henry	<i>1996 Ford F150</i>	\$50.00
Total Miscellaneous Income		\$6,248.97

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>TCWC In-kind</i>	<i>musk thistle; bull thistle; Scotch thistle; common mullein; cocklebur; Canada thistle; hoary cress; bareground; perennial pepperweed; water hemlock; poison hemlock</i> <i>\$516.77</i>	120.87	\$23,631.42	n/a
Subcontract #X0391-Well Sites	<i>bareground</i>	9.90	\$4,284.26	\$200.00
SNWA Warm Springs (<i>spring treatment</i>)	<i>Malta starthistle; Sahara mustard; hoary cress; Russian knapweed</i>	58.09	\$11,078.23	n/a
SNWA Warm Springs (<i>spring treatment</i>) <i>TCWC In-kind</i>	<i>Malta starthistle; Russian knapweed; perennial pepperweed</i> <i>\$22.17</i>	46.42	\$4,279.13	n/a
SNWA Warm Springs (<i>fall treatment</i>)	<i>Johnson grass; silverleaf nightshade; perennial pepperweed; Russian knapweed; Bermuda grass; Russian thistle</i>	47.40	\$13,422.13	n/a
Total Southern Nevada Water Authority		282.68	\$56,695.17	\$200.00

PRIVATE LANDOWNERS BY COUNTIES

<i>Lincoln County</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA</i>
Coyote Springs Lane	salt cedar	1.95	\$1,978.33	n/a
Total Lincoln County Landowners		1.95	\$1,978.33	n/a
<i>Nye County</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA</i>
M&K Enterprise	bareground	0.10	\$59.41	n/a
Round Mountain Gold	spotted knapweed; hoary cress	1.45	\$1,952.46	n/a
Round Mountain Gold	bareground	3.69	\$881.70	n/a
Round Mountain Gold	broadleaf	59.0	\$2,020.00	n/a
Tonopah Water District	bareground	9.55	\$1,546.06	n/a
Total Nye County Landowners		73.79	\$6,459.63	n/a
<i>White Pine County</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA</i>
Apex Pest Control	herbicide	n/a	\$560.00	n/a
Barrick – Bald Mountain Propane tank Area	bareground	0.14	\$231.31	n/a
Barrick – Bald Mountain Sub Stations	bareground	3.50	\$875.00	n/a
Barrick-Bald Mountain Mine Spring (includes \$406.78 for MSHA training & lodging)	musk thistle; Canada thistle; bull thistle; hoary cress; black henbane	7.74	\$13,097.17	n/a
Barrick-Bald Mountain Mine Summer treat	musk thistle; bull thistle; Scotch thistle; spotted knapweed; houndstongue; black henbane	36.80	\$22,431.69	n/a
Barrick-Bald Mountain Mine Fall treat	bull thistle; musk thistle; black henbane; bareground	6.70	\$9,680.44	n/a
Barrick-Bald Mountain Mine-Man Camp TCWC In-kind	bareground \$317.04	23.40	\$2,500.00	n/a
Bell, Mildred	bareground; hoary cress	2.81	\$454.21	n/a
Chachas, George	bareground	0.99	\$251.67	n/a
Ciscar, Javier	bareground	3.28	\$449.17	n/a
Criner, Jan	bareground	0.24	\$231.66	n/a
Duckwater Shoshone Tribe (Spring treatment)	bull thistle; Russian knapweed; perennial pepperweed; water hemlock; hoary cress; Scotch thistle; musk thistle; cocklebur	668.89	\$40,847.16	n/a

Duckwater Shoshone Tribe- (Fall treat)	<i>Russian knapweed</i>	266.45	\$16,928.84	n/a
<i>TCWC In-kind</i>	<i>\$6,218.44</i>			
Flower Basket	<i>bareground</i>	0.30	\$127.50	n/a
Leavitt, Paul	<i>herbicide</i>	n/a	\$329.00	n/a
Ostlund, Bob	<i>herbicide</i>	n/a	\$12.02	n/a
Reck Brothers	<i>bareground</i>	3.06	\$576.96	n/a
Saw Mill Estates	<i>bareground</i>	2.08	\$387.12	n/a
Winter, Sandra	<i>bareground</i>	0.59	176.88	n/a
<i>Total White Pine County Landowners</i>		<i>1,026.97</i>	<i>\$110,147.80</i>	<i>n/a</i>

<i>Tonopah Conservation District (TCD)</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA</i>
Battle Mountain BLM-TCD's Agreement No: L12AC20500, Sup 0001 Treat 2	<i>hoary cress; musk thistle; perennial pepperweed</i>	1,404.19	\$47,902.27	n/a
Battle Mountain BLM-TCD's Agreement No: L12AC20500, Sup 0001 Treat 3 <i>TCWC In-kind</i>	<i>hoary cress; bull thistle; perennial pepperweed; salt cedar</i> \$1,278.24	704.28	\$18,030.15	n/a
Battle Mountain BLM-TCD's Agreement No: L16AC00001, Treat 1	<i>Russian knapweed</i>	13.60	\$7,288.84	n/a
<i>Total Tonopah Conservation District</i>		<i>2,122.07</i>	<i>\$73,221.26</i>	<i>n/a</i>
COOPERATIVE WEED MANAGEMENT AREAS (CWMA)				
<i>No. Nye/Esmeralda CWMA</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>TCD</i>
Belmont, Town of	<i>bareground</i>	6.09	\$1,522.50	n/a
Boni, Keith	<i>bareground</i>	0.50	\$93.75	\$31.25
Christensen, Josh	<i>hoary cress; general</i>	41.00	\$1,603.88	n/a
Dessauer, Numa	<i>bareground</i>	0.45	\$84.45	\$28.15
Eckhardt, Kurt	<i>bareground</i>	0.50	\$93.75	\$31.25
Kretschmer, Ray	<i>hoary cress; perennial pepperweed</i>	6.72	\$679.12	n/a
Motis, Rick	<i>bareground</i>	1.07	\$233.13	\$34.37
Terras, John	<i>bareground</i>	1.15	\$215.70	\$71.90
<i>Total No. Nye & Esmeralda Counties CWMA</i>		<i>57.48</i>	<i>\$4,526.28</i>	<i>\$196.92</i>
<i>Golden Gate CWMA</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA</i>
Uhalde, Gracian	<i>Scotch thistle</i>	1.60	n/a	\$1,189.77
<i>Total Golden Gate CWMA & Members</i>		<i>1.60</i>	<i>n/a</i>	<i>\$1,189.77</i>
<i>Newark-Long Valley CWMA</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA</i>
Cowboys Rest Ranch-NDA/CWMA Sage Grouse Grant	<i>reseeding</i>	33.92	n/a	\$3,900.00
Goicoechea Ranches	<i>musk thistle; spotted knapweed</i>	0.32	n/a	\$309.68
Neal, Jack	<i>spotted knapweed; hoary cress</i>	5.90	n/a	\$710.60
<i>Total Newark/Long Valley CWMA & Members</i>		<i>40.14</i>	<i>n/a</i>	<i>\$4,920.28</i>

<i>Pahranagat Valley CWMA</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA</i>
Pahranagat Valley CWMA <i>TCWC-In-kind</i>	<i>herbicide; education & outreach</i> <i>\$111.80</i>	n/a	n/a	\$1,160.00
<i>Total Pahranagat Valley CWMA & Members</i>		<i>n/a</i>	<i>n/a</i>	<i>\$1,160.00</i>
<i>Railroad Valley CWMA</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA</i>
Biocontrol	<i>Urophora cardui; Cyphocleonus achates; Jaapiella galls; Larinus obtusus; Aulacides wasps for Russian knapweed</i>	n/a	n/a	\$885.00
Bradshaw Ranches	<i>Russian knapweed</i>	0.07	n/a	\$255.65
Currant Creek Ranch	<i>perennial pepperweed; hoary cress</i>	4.09	n/a	\$1,831.60
Drayton, Carolyn	<i>puncture vine; perennial pepperweed</i>	0.09	n/a	\$307.59
Duckwater Shoshone Tribe	<i>evaluation & monitoring</i>	0.00	n/a	\$610.00
Forsgren, Alan	<i>perennial pepperweed; Russian knapweed; phragmites; bull thistle; hoary cress</i>	2.44	n/a	\$1,560.16
<i>Total Railroad Valley CWMA & Members</i>		<i>6.69</i>	<i>n/a</i>	<i>\$5,450.00</i>
<i>Snake Valley CWMA</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA</i>
Baker Ranch & Hidden Canyon Ranch-NDA/CWMA Sage Grouse Grant	<i>reseeding</i>	16.96	n/a	\$1,950.00
Baker Ranches	<i>spotted knapweed; Russian knapweed; houndstongue</i>	6.54	\$403.44	\$1,193.10
Gonder, Daisy	<i>spotted knapweed</i>	0.14	n/a	\$157.62
Gonder, Dawn	<i>spotted knapweed</i>	0.04	n/a	\$152.40
Hidden Canyon Ranch-NDA Houndstongue Grant <i>TCWC In-kind</i>	<i>houndstongue; spotted knapweed; musk thistle; bull thistle</i> <i>\$45.28</i>	23.21	n/a	\$6,000.00
Home Farm	<i>bull thistle; Scotch thistle; musk thistle; houndstongue; show thistle</i>	0.53	\$171.73	\$500.00
Jordan, Ronny	<i>spotted knapweed; Scotch thistle</i>	0.12	n/a	\$257.75
Nevada Land Trust	<i>bull thistle</i>	0.46		\$461.38
Weisbrot, Ed	<i>hoary cress; musk thistle; bull thistle; stinging nettle</i>	0.71	\$76.97	\$500.00
<i>Total Snake Valley CWMA & Members</i>		<i>48.71</i>	<i>\$652.14</i>	<i>\$11,172.25</i>

<i>Southern Nevada CWMA</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA</i>
Young, Maryann	<i>herbicide; bindweed</i>	4.72	\$569.00	\$52.00
<i>Total Southern Nevada CWMA & Members</i>		4.72	\$569.00	\$52.00
<i>Spring Valley CWMA</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA</i>
Ahlvers, Fred	<i>hoary cress; herbicide; Russian knapweed</i>	1.15	n/a	\$575.54
Andrea, Art	<i>herbicide</i>	n/a	n/a	\$30.00
Biocontrol	<i>Urophora cardui for spotted knapweed</i>	n/a	n/a	\$400.00
Cleveland Ranch	<i>herbicide; evaluation & monitoring</i>	n/a	\$246.82	\$1,326.18
Fillman, Pat	<i>herbicide</i>	n/a	n/a	\$321.06
Geysler Ranch	<i>herbicide</i>	n/a	n/a	\$420.76
Parker Ranch	<i>Canada thistle; bull thistle; musk thistle; poison hemlock</i>	2.54	n/a	\$1,533.54
Vogler, Hank	<i>evaluation & monitoring; wild iris</i>	29.88	n/a	\$2,599.22
<i>Total Spring Valley CWMA & Members</i>		33.57	\$246.82	\$7,206.30
<i>Steptoe/Butte Valley CWMA</i>	<i>Species Targeted</i>	<i>Acreage</i>	<i>Private Landowner</i>	<i>CWMA</i>
Ag District 13	<i>spotted knapweed</i>	0.03	n/a	\$151.80
Ag District 13-White Pine Conservation District Grant	<i>spotted knapweed; Scotch thistle; hoary cress</i>	7.27	n/a	\$384.59
Auclaire, Eric	<i>spotted knapweed</i>	0.30	n/a	\$78.39
Baker, Nancy	<i>hoary cress; bull thistle; Canada thistle</i>	2.92	\$225.39	\$200.00
Bartlett, Bob	<i>foxtail</i>	0.55	n/a	\$200.00
	<i>TCWC In-kind</i>			<i>\$12.55</i>
Bath, Jim	<i>spotted knapweed; curly dock; hoary cress; Scotch thistle</i>	8.36	\$499.91	\$524.66
Biocontrol	<i>Cyphocleonus achates; Larinus obtusus for spotted knapweed</i>	n/a	n/a	\$1,100.00
Bradley, Burk	<i>spotted knapweed</i>	0.30	n/a	\$115.58
Brown, Rick	<i>hoary cress</i>	1.25	\$51.11	\$200.00
Bunson, Thomas	<i>evaluation and monitoring</i>	n/a	n/a	\$488.00

Carson, Keith	<i>poison hemlock; hoary cress; spotted knapweed; bull thistle; musk thistle</i>	0.25	\$56.11	\$200.00
Derbidge, Gretchen	<i>spotted knapweed; general</i>	1.56	\$15.13	\$200.00
Garza, Jim	<i>spotted knapweed; bareground</i>	1.39	\$116.31	\$200.00
Georgetown Ranch	<i>poison hemlock</i>	0.25	\$106.04	\$200.00
Georgetown Ranch-White Pine Conservation District Grant	<i>hoary cress</i>	0.16	n/a	\$312.46
Georgetown Ranch-NDA/CWMA Sage Grouse Grant	<i>seeding and drilling</i>	25.87	n/a	\$3,750.00
Godon, Susie	<i>hoary cress; cheatgrass; herbicide</i>	8.45	\$407.22	\$245.00
Henriod Ranch	<i>evaluation & monitoring</i>	0.00	n/a	\$852.00
Hermansen, Bret	<i>spotted knapweed</i>	0.20	n/a	\$127.50
Maes, Dan & Colleen	<i>herbicide</i>	n/a	n/a	\$62.00
Netcher, Janet	<i>spotted knapweed</i>	1.03	\$21.85	\$200.00
Ollila, Shelly	<i>hoary cress</i>	1.44	\$34.41	\$200.00
Oxborrow, Ron	<i>hoary cress</i>	0.40	n/a	\$199.75
Oxborrow, Tom	<i>hoary cress</i>	0.66	n/a	\$199.75
Paulson, Eric	<i>hoary cress</i>	0.76	\$180.84	\$200.00
Robison, Doug	<i>hoary cress</i>	0.65	n/a	\$158.33
Ryan, Maria	<i>kochia</i>	4.00	\$158.69	\$200.00
Schellbourne Ranch	<i>musk thistle; Canada thistle; bull thistle; hoary cress</i>	2.57	\$332.09	\$300.00
Stolk, Jason	<i>evaluation and monitoring; spotted knapweed; elm tree</i>	0.12	n/a	\$532.74
Tehama Creek Ranch	<i>hoary cress; musk thistle; Canada thistle</i>	2.84	\$361.79	\$200.00
Thomas, Kehrin	<i>evaluation and monitoring; silver nightshade</i>	0.02	n/a	\$639.87
Uhalde, Gracian	<i>spotted knapweed</i>	1.15	n/a	\$167.14
Valley View RV Park	<i>hoary cress</i>	0.11	8.36	\$200.00
Vaught, Brandon	<i>Russian thistle; bull thistle; musk thistle</i>	7.66	n/a	\$688.25
White Pine Care Center	<i>bareground; Scotch thistle</i>	1.29	\$259.68	\$59.26

White Pine 4-H	<i>spotted knapweed</i>	1.71	\$179.06	\$200.00
White Pine Golf Course	<i>hoary cress; poison hemlock</i>	0.21	\$143.23	\$200.00
White Pine Golf Course	<i>Dalmatian toadflax; Russian knapweed</i>	1.50	n/a	\$254.65
White Pine Golf Course- White Pine Conservation District Grant	<i>spotted knapweed; hoary cress; Dalmatian toadflax</i>	14.81	n/a	\$1,100.76
White Pine Golf Course- NDA/CWMA Sage Grouse Grant	<i>seeding and drilling</i>	25.87	n/a	\$3,750.00
Wilson, Jenny	<i>hoary cress; poison hemlock</i>	2.38	\$381.32	\$200.00
Total Steptoe/Butte Valley CWMA & Members		130.29	\$3,538.54	\$19,442.48
Upper Meadow Valley CWMA	Species Targeted	Acreage	Private Landowner	CWMA
Gloeckner, Kenna	<i>evaluation and monitoring; musk thistle</i>	8.81	n/a	\$2,980.15
Hornbeck, Ronda	<i>bull thistle; yellow pea</i>	0.55	n/a	\$1,138.54
Upper Meadow Valley	<i>Scotch thistle</i>	0.80	n/a	\$209.24
Upper Meadow Valley Water Channel	<i>Scotch thistle</i>	1.52	n/a	\$2,000.00
TCWC-In-kind	\$384.46			
Total Upper Meadow Valley CWMA & Members		11.68	n/a	\$6,327.93
White River Valley CWMA	Species Targeted	Acreage	Private Landowner	CWMA
Allred, Jim	<i>herbicide</i>	n/a	n/a	\$139.00
Ashworth, Rhea	<i>hoary cress</i>	5.20	n/a	\$385.27
Baker, Judy	<i>hoary cress</i>	0.87	n/a	\$219.92
Boren, Shane	<i>general field weeds</i>	12.75	\$274.65	\$400.00
Carter, Steve	<i>herbicide</i>	n/a	\$3,648.00	\$400.00
Cripps, Walter	<i>hoary cress; musk thistle</i>	2.05	\$27.53	\$400.00
Gubler, Denton	<i>herbicide</i>	n/a	\$176.00	\$400.00
Halstead, Dan	<i>hoary cress; herbicide</i>	0.14	n/a	\$264.43
Hendrix, Norris	<i>herbicide</i>	n/a	n/a	\$200.00
Hyde, William	<i>herbicide</i>	n/a	n/a	\$47.75
Jensen, Darrin	<i>herbicide</i>	n/a	\$250.00	\$1,454.20

Johnson, Dana	<i>herbicide</i>	n/a	n/a	\$400.00
Lane, Gary	<i>herbicide</i>	n/a	\$1,501.00	\$400.00
Lane, Renee	<i>hoary cress</i>	0.73	n/a	\$160.04
Macfarlan, Betsy	<i>Russian thistle</i>	18.57	\$659.02	\$400.00
Maynard, Orvan	<i>herbicide</i>	n/a	\$333.00	\$400.00
McKenzie, Rod	<i>herbicide</i>	n/a	n/a	\$358.00
NDOW-Sunnyside WMA	<i>Russian knapweed</i>	101.21	\$2,000.00	\$2,965.13
Replogle, Enjoli	<i>hoary cress</i>	0.58	n/a	\$110.15
Rivero, Greg	<i>herbicide</i>	n/a	n/a	\$2.85
Seal, Tyler	<i>herbicide; willows</i>	0.21	\$300.13	n/a
White River CWMA (volunteer day)	<i>herbicide</i>	n/a	n/a	\$367.39
Whipple, Dixie	<i>Scotch thistle</i>	1.00	n/a	\$120.87
Total White River Valley CWMA & Members		143.31	\$9,169.33	\$9,995.00
Total CWMA's & Members		478.19	\$18,702.11	\$67,116.01
Total Private Landowners Not Included in the CWMA's		3,507.46	\$248,502.19	n/a

In 2014, Tri-County Weed Control's net income was \$848,091.93. In 2015, Tri-County Weed Control's total income was \$1,104,510.42, less TCWC in-kind of \$40,391.22, for a net total of \$1,064,119.20. This is an increase of approximate 25.5% from 2014.