

2018 Season
Report

TRI-COUNTY

W
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D CONTROL



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WELCOME

What we will be presenting

- ▶ Outreach and Education
- ▶ Inventory/Survey
- ▶ Weed Database to Date
- ▶ Monitoring
- ▶ Treatments/ Treatment Totals
- ▶ Average Cost/Treatment Acre
- ▶ Annual % of No Weeds Present
- ▶ Last 5 Years
- ▶ 2019 Outlook
- ▶ TCWC Financial for 2018

Outreach and Education



- ▶ 572 man hours dedicated
- ▶ Met with numerous landowners and managers regarding noxious and nuisance weeds
- ▶ Identified numerous plants for local residents, both at their properties and in the office.
- ▶ Provided information material to landowners in regards to sprayer calibration.
- ▶ Co-hosted the 13th Annual Winter Weed Workshop: 1/10-11/2018
- ▶ Attended a number of workshops and classes: MSHA, GIS class, NASIMA Conference in Reno Nevada
- ▶ Attended numerous meetings with the different CWMA areas

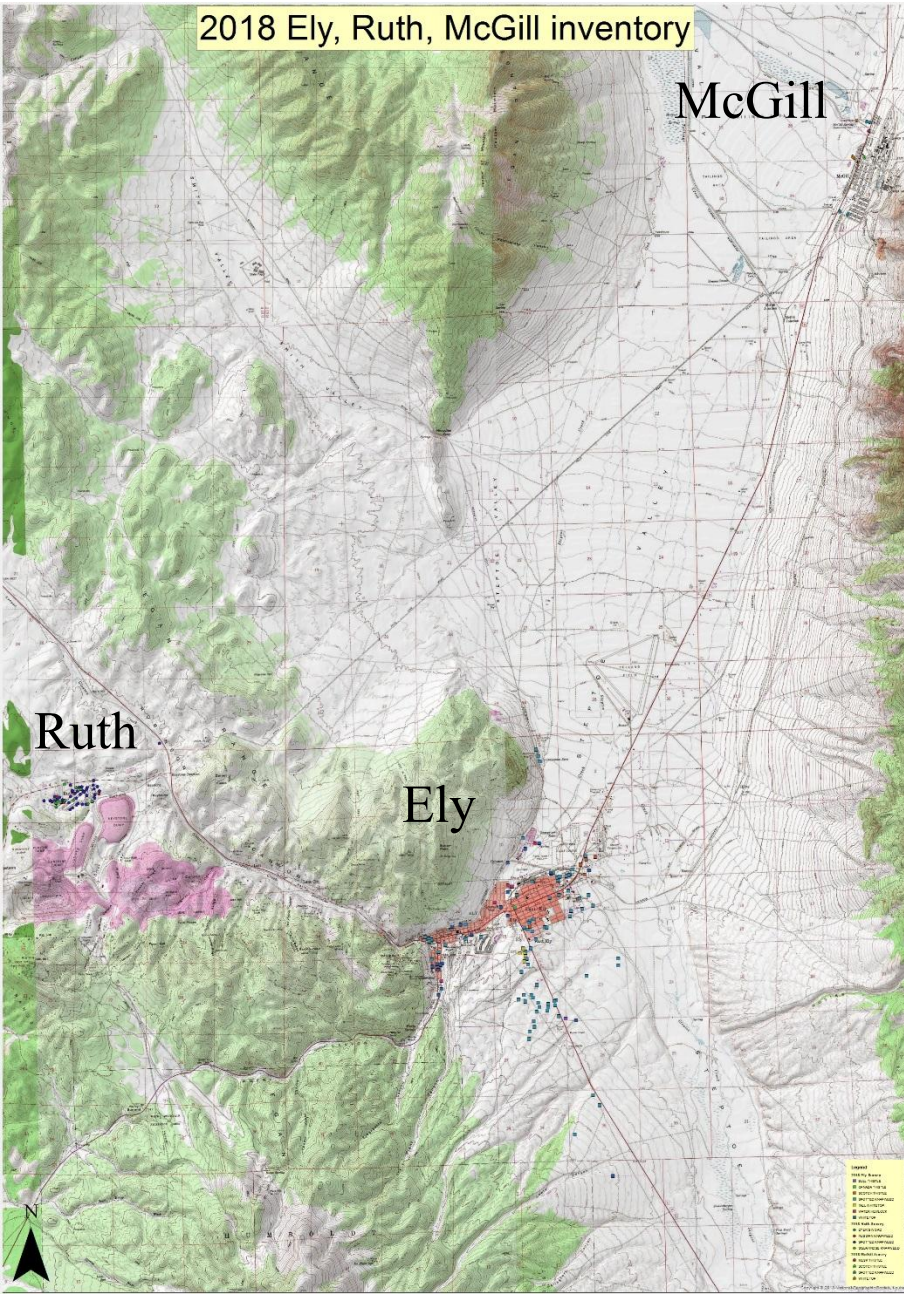
Inventory/Survey

- ▶ Nevada Cooperative Extension inventory Ely, Ruth and McGill noxious weed inventory/monitoring
- ▶ Duckwater's land expansion inventoried and a management plan was prepared



2018 Nevada Cooperative Extension Inventory

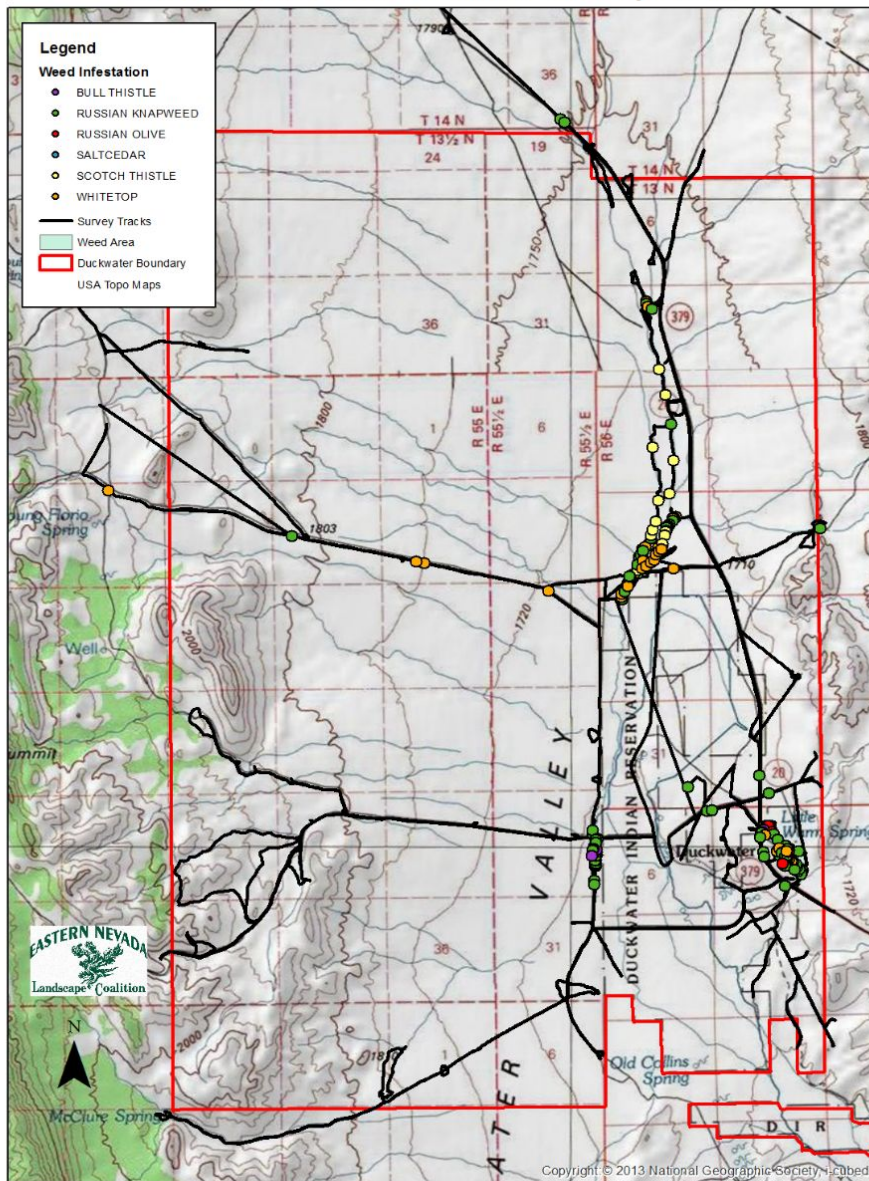
TCWC inventoried
Ely, Ruth and Mc Gill



Surveyed Species	2018 Surveyed	Previous Surveyed
Ely -		
Bull Thistle	50 sq/ft	1.1 acres
Canada Thistle	500 sq/ft	
Dalmatian Toadflax		2,000 sq/ft
Hoary Cress	6.5 acres	7.5 acres
Perennial Pepperweed	2.6 acres	4.25 acres
Poison Hemlock		0.1 acres
Russian Knapweed		2,600 sq/ft
Scotch Thistle	1.5 acres	
Spotted Knapweed	28.7 acres	1.8 acres
Squarrose Knapweed		500 sq/ft
Water Hemlock	3.1 acres	
Ruth -		
Dyer's Wood	0.5 acres	3,000 sq/ft
Hoary Cress		2.2 acres
Russian Knapweed	0.6 acres	68.2 acres
Spotted Knapweed	9.5 acres	
Squarrose Knapweed	2 acres	
McGill -		
Hoary Cress	0.1 acres	
Musk Thistle	0.5 acres	
Scotch Thistle	500 sq/ft	
Spotted Knapweed	0.1 acres	0.1 acres

2018 Duckwater Land Expansion Inventory

Duckwater Noxious Weed Survey 2018



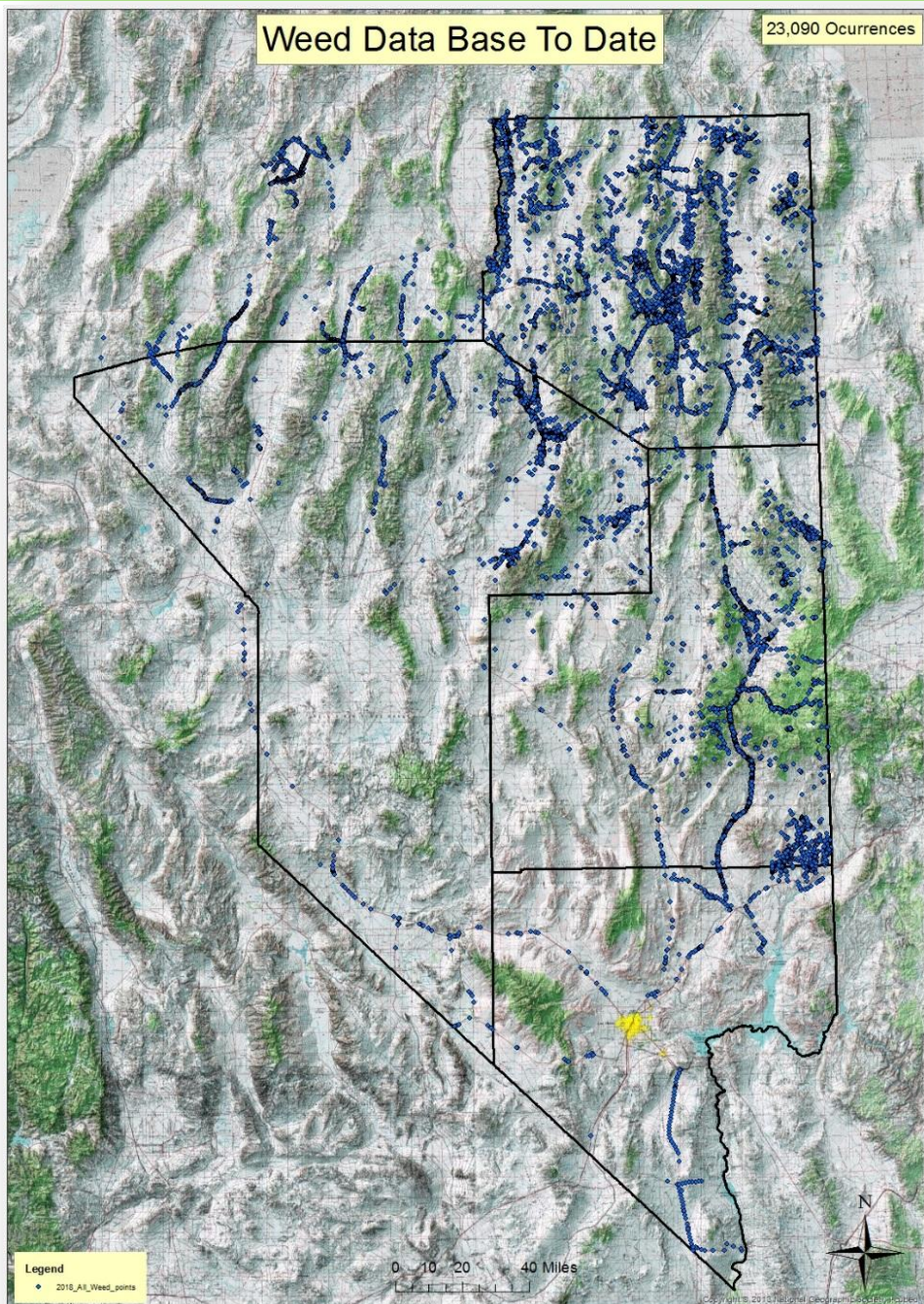
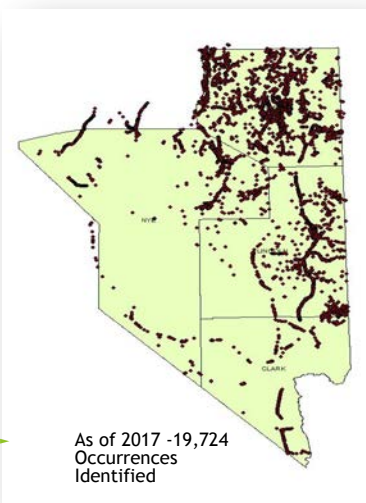
For 2018 TCWC utilized the Eastern Nevada Landscape Coalition to complete the task of inventorying the 31,269 acres

- 1 Survey area consisted of open sagebrush rangeland surrounding the existing Duckwater Shoshone Reservation
- 1 Surveyors documented their survey path using both Garmin e-trex 20 and Trimble GPS devices
- 1 Russian knapweed, hoary cress, scotch thistle, russian olive, bull thistle and saltcedar were identified



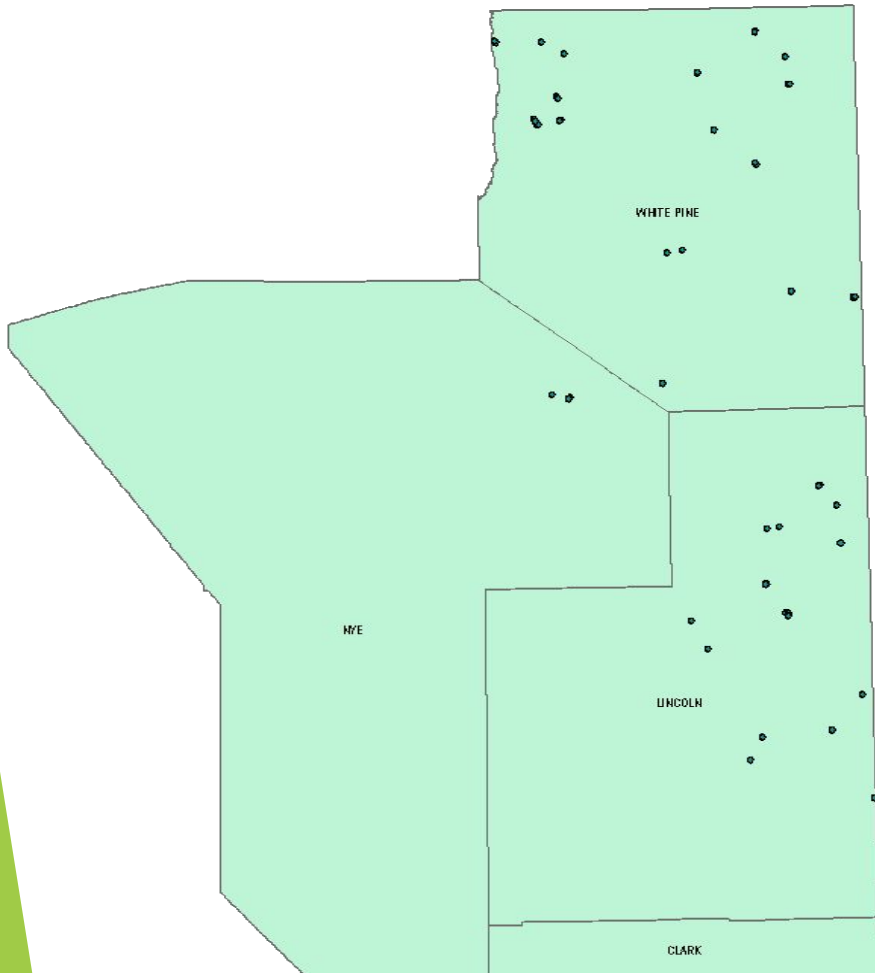
Little Warm Springs – Russian Olive

Weed Database to Date



□ **As of 2018
23,090
Occurrences
Identified**

Monitoring



- ▶ 42 Sites visited 2018
- ▶ Began on July 30, 2018
- ▶ Completed on August 22, 2018
- ▶ 198 man hours logged

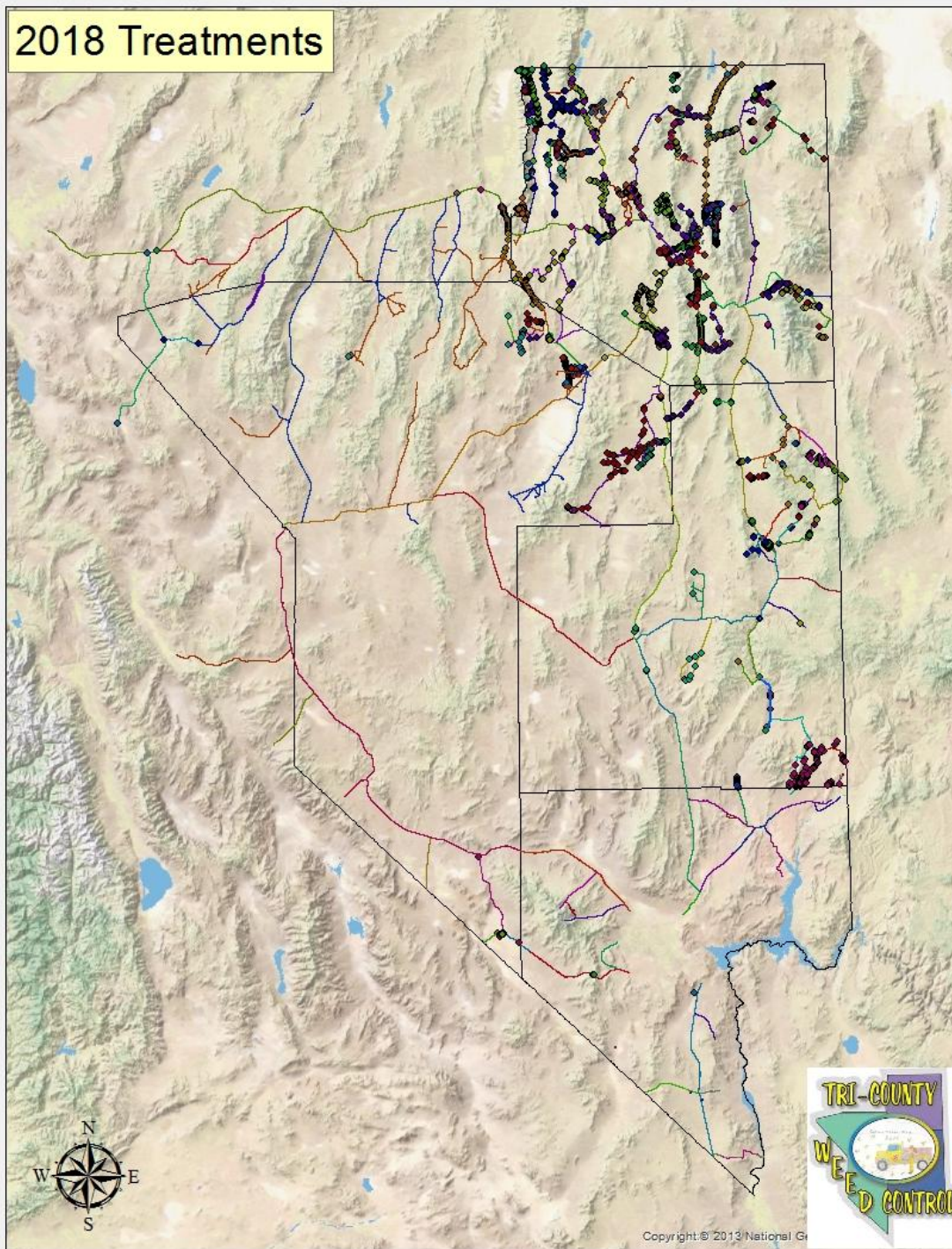


Treatments



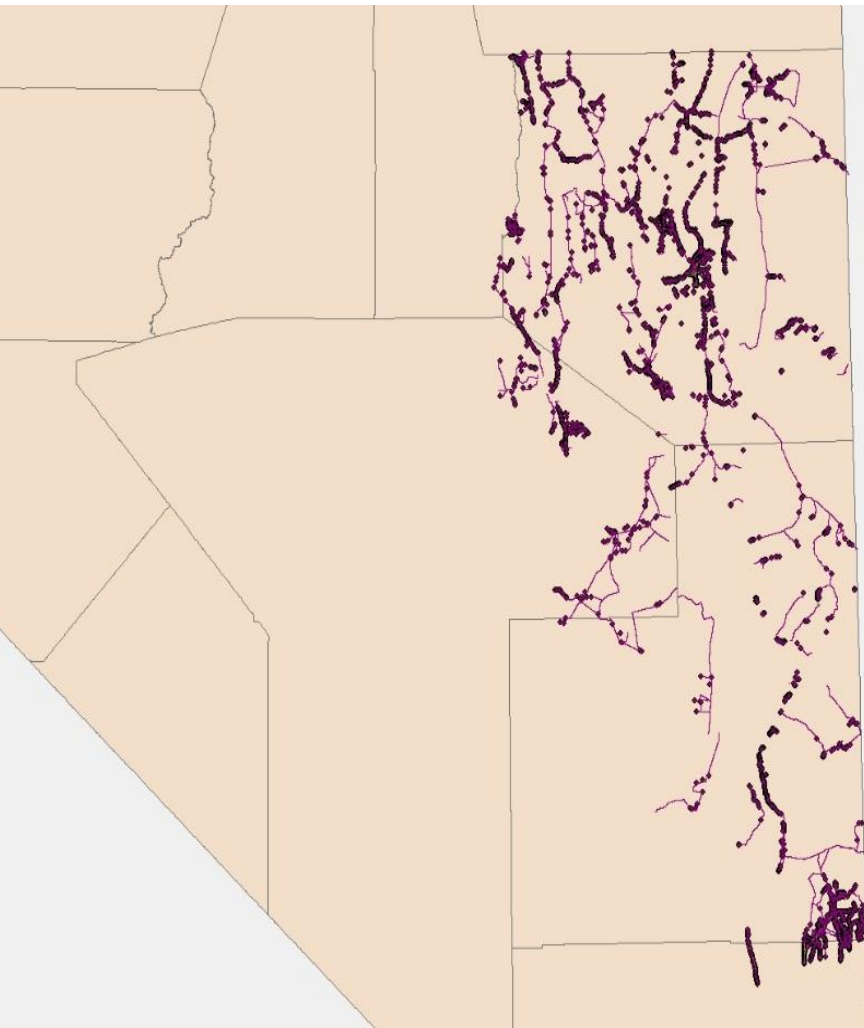
Treatments

2018 Treatments



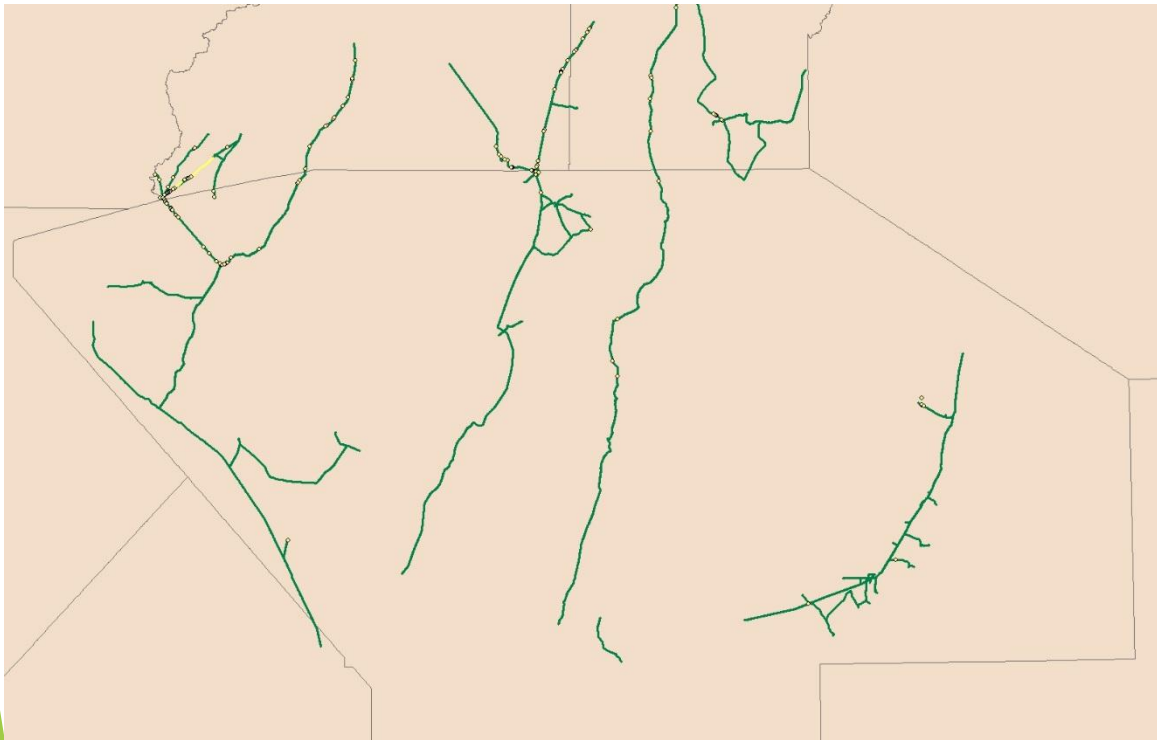
- The spray crew consisting of two full time and three seasonal sprayers began the 2018 season on January 22, 2018 and completed in December 14, 2018
- In total, spray crews completed 412 different projects

Bureau of Land Management



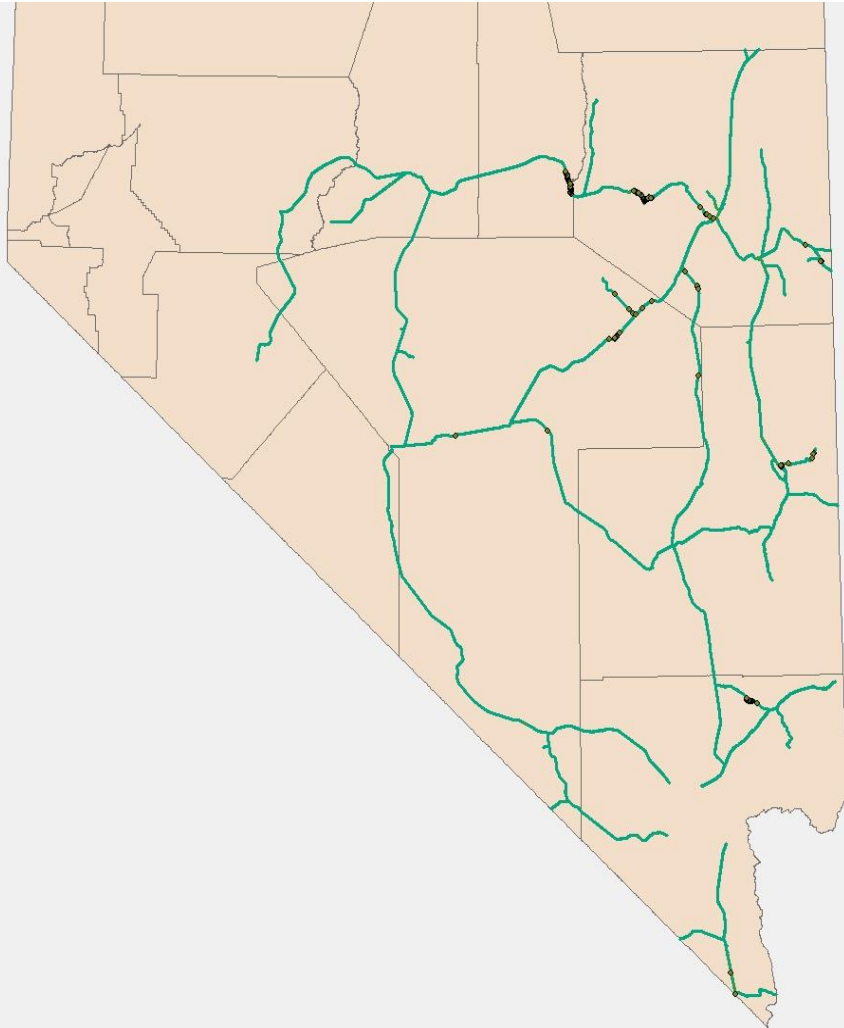
- 2,515.82 miles of recorded spray path
- 91,484.36 gross acres
- 552.18 actual acres treated for 2018
- 1,722.0 man hour logged

Tonopah Conservation District



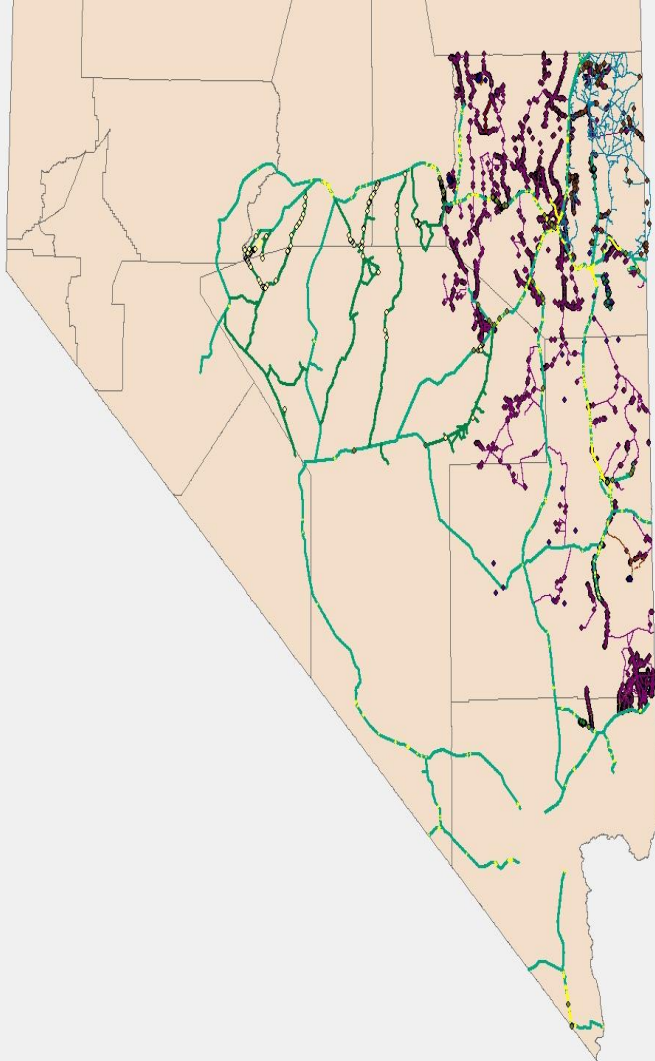
- 25.95 acres treated for the Battle Mountain BLM
- Species Treated: hoary cress, musk thistle, bull thistle, russian knapweed, perennial pepperweed

Nevada Department of Transportation



- 12,466 weed lines recorded
- 5,968.05 miles of recorded spray path
- 217,018.72 gross acres
- 580.41 actual acres treated
- 803.0 man hours logged

2018 Public Lands Summary



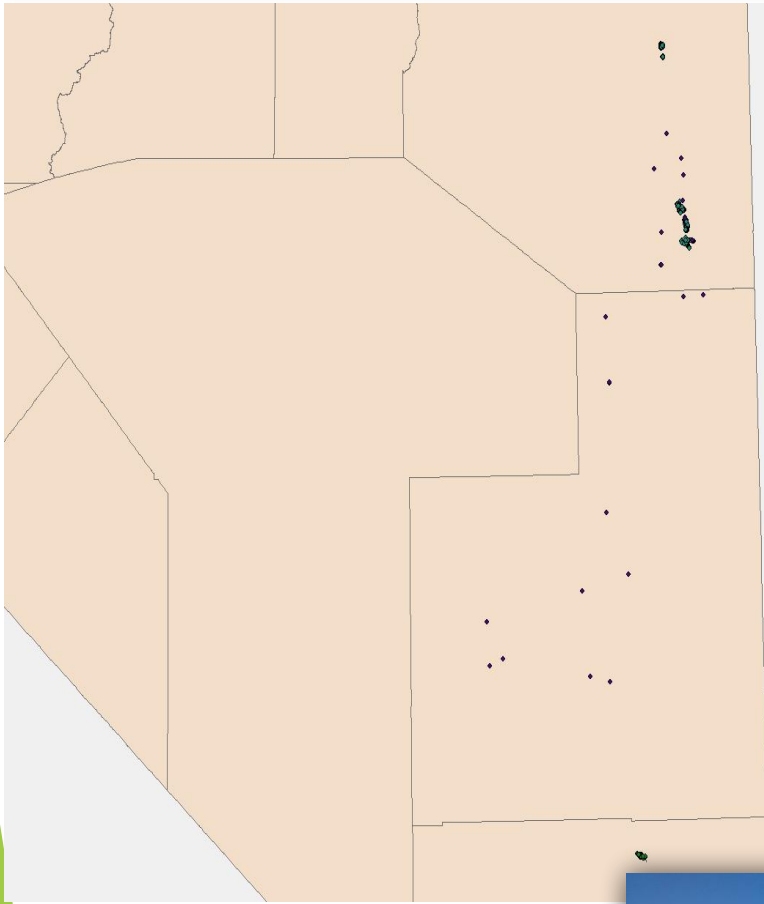
Revenue of \$ 319,050.85

Recorded 9,642.12 miles of paths during spray and inventory sessions

175,311.3 Gross visited acres

1,158.54 acres treated

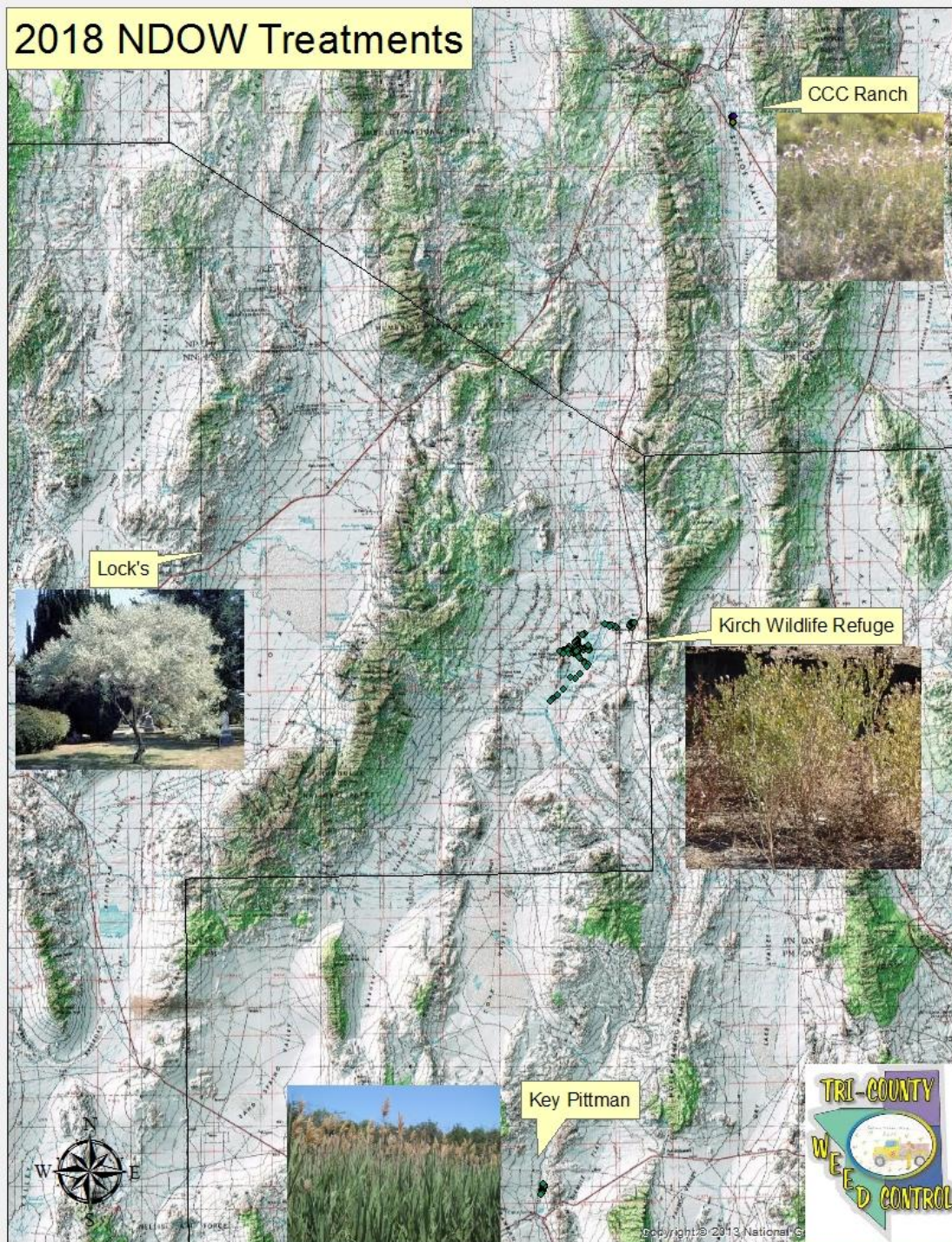
Southern Nevada Water Authority



- 448.63 acres of treatment
- 327.5 man hours logged
- Species treated: musk thistle, cocklebur, burdock, bull thistle, perennial pepperweed, saltcedar, ravenna grass, malta starthistle, russian knapweed, johnson grass, silverleaf nightshade, phragmites, halogeton, white horehound



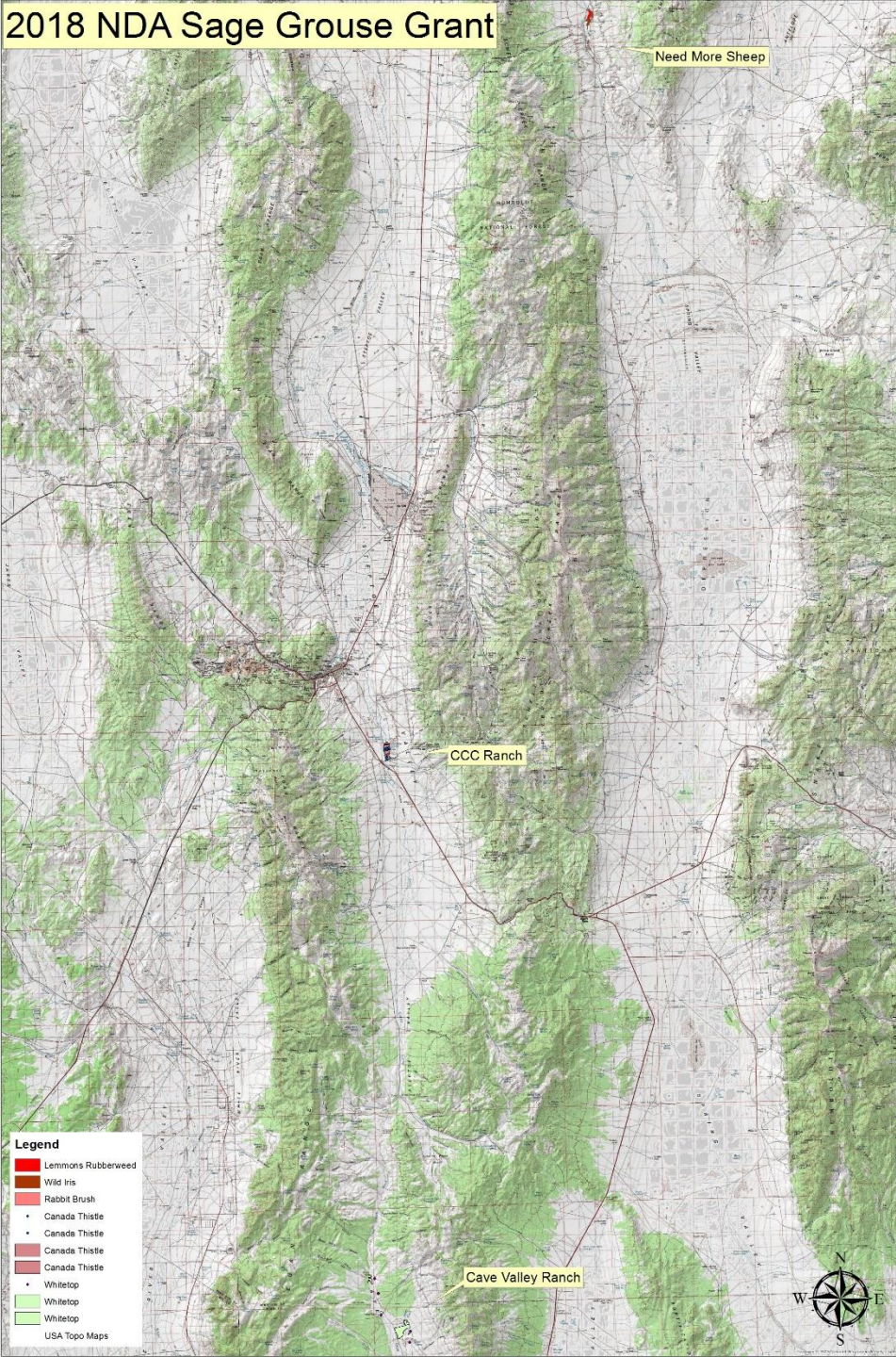
2018 NDOW Treatments



Nevada Department of Wildlife

- ▶ 125.47 acres treated
- ▶ 3 locations:
 - Locks Ranch – russian Olive
 - Kirch Wildlife Refuge - russian knapweed
 - Key Pittman - phragmites





Nevada Department of Agriculture

- ▶ Received funding for Sage Grouse Weed Control
- ▶ Budget of \$129,151.40
- ▶ Used \$35,852.10
- ▶ 27.8% expended of grant
- ▶ 877.50 acres treated
- ▶ Species treated: hoary cress, lemons rubber weed, canada thistle, wild iris, rabbit brush



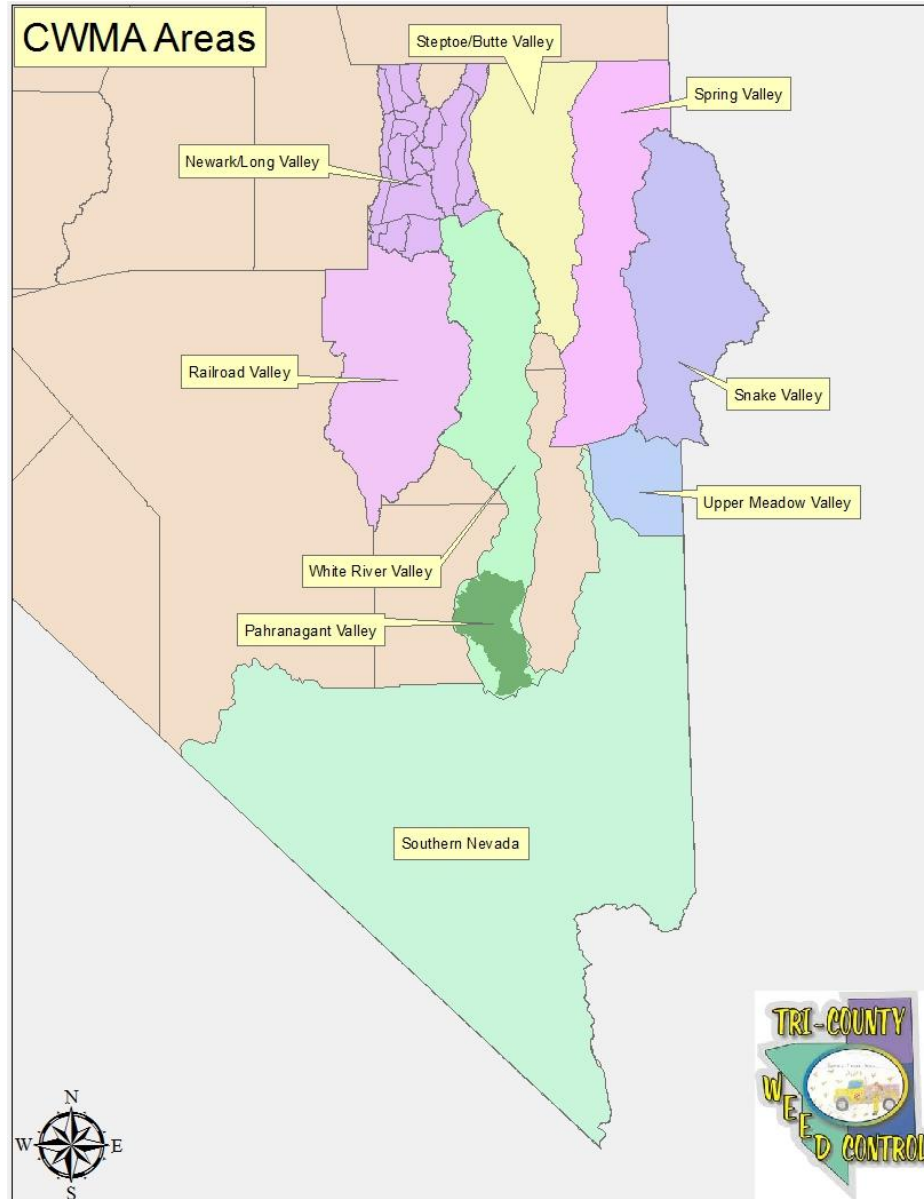
Private Landowner/Managers



- ▶ Other Work outside of the CWMA's
- ▶ Some of the customers are Nye County Building & Grounds, Tonopah Public Utilities, Town of Tonopah, City of Ely, Northern NV High Sierra, NV Northern Railroad, Kinross - Bald Mountain, Town of Belmont, BP Weeds, Nevada Select Royalty, Inc., Duckwater Shoshone Tribe, Ely State Prison, U.S. Fish & Wildlife, NV Cooperative Extension, Southern Nevada Water Authority and Private Landowners.

EASTERN NEVADA LANDSCAPE COALITION

Cooperative Weed Management Areas



Newark/Long Valley CWMA



- ▶ ENLC fiscally manages and attains the grants
- ▶ 5 land owners utilized grant
- ▶ 97.08 acres of treatment
- ▶ Land owner portion of \$ 3,962.17
- ▶ CWMA portion \$6,653.81
- ▶ Target species: spotted knapweed, scotch thistle, musk thistle, canada thistle, leafy spurge, houndstongue and hoary cress.



Pahranagat Valley CWMA



- ▶ ENLC fiscally manages and attains the grants
- ▶ 36 land owners utilized grant
- ▶ 22.78 acres of treatment
- ▶ Landowner portion of \$ 4,080.00
- ▶ CWMA portion \$ 30,265.43
- ▶ Target species: cocklebur, russian olive



Railroad Valley CWMA



- ▶ ENLC fiscally manages and attains the grants
- ▶ 5 projects completed
- ▶ 16.8 acres of treatment
- ▶ Land owner portion \$2,000.00
- ▶ CWMA portion \$ 3,462.03
- ▶ Target species: hoary cress, perennial pepperweed, russian olive, russian knapweed



Snake Valley CWMA



- ▶ ENLC fiscally manages and attains the grants
- ▶ 12 projects completed
- ▶ 10.97 acres of treatment
- ▶ Land owner portion \$ 159.24
- ▶ CWMA portion \$5,460.02
- ▶ Target species: musk thistle, scotch thistle, houndstongue, spotted knapweed, canada thistle, bull thistle, puncturevine, russian knapweed

Southern Nevada CWMA



- ▶ ENLC fiscally manages and attains the grants
- ▶ 2 projects completed
- ▶ 19.91 acres of treatment
- ▶ Land owner portion \$3,534.76
- ▶ CWMA portion \$ 4,266.33
- ▶ Target species: tamarisk, cat tails, johnson grass



Spring Valley CWMA



ENLC fiscally manages and attains the grants

- ▶ 7 projects completed
- ▶ 62.98 acres treated
- ▶ Land owner portion \$6,127.29
- ▶ CWMA portion \$3,596.52
- ▶ Target species: bull thistle, scotch thistle, hoary cress

Steptoe Valley CWMA

- ▶ ENLC fiscally manages and attains the grants
- ▶ 41 project completed
- ▶ 62.39 acres treated
- ▶ Landowner portion \$4,447.52
- ▶ CWMA portion \$9,571.01
- ▶ Target species: spotted knapweed, hoary cress, bull thistle, perennial pepperweed, poison hemlock, musk thistle, canada thistle, water hemlock, bur buttercup, russian olive, rose brush



Upper Meadow Valley CWMA

- ▶ ENLC fiscally manages and attains the grants
- ▶ 8 projects completed
- ▶ 15.93 acres treated
- ▶ Landowner portion \$509.77
- ▶ CWMA portion \$6,038.49
- ▶ Target species: puncture vine, scotch thistle, bull thistle, musk thistle, spotted knapweed



White River Valley CWMA



- ENLC fiscally manages and attains the grants
- 28 projects completed
- 162.3 acres treated
- Landowner portion \$20,066.34
- CWMA portion \$10,205.18
- Target species: hoary cress, scotch thistle, cockel bur, curly dog, burdock, willows, bur buttercup, russian knapweed, bull thistle

Total Funding for ENLC

		Acreage	Private Landowner	CWMA's
Eastern Nevada Landscape Coalition Grant				
1	Newark/Long Valley CWMA	97.08	3,962.17	6,653.81
2	Pahrnagat Valley CWMA	5.50	4,080.00	6,037.20
2	Pahrnagat Valley Russian Olive	17.28	-	24,228.23
3	Rail Road Valley CWMA	16.80	2,000.00	3,462.03
4	Snake Valley CWMA	10.97	159.24	5,460.02
5	Southern Nevada CWMA	19.91	3,534.76	4,266.33
6	Spring Valley CWMA	62.98	6,127.29	3,596.52
7	Steptoe-Butte Valley CWMA	62.39	4,447.52	9,571.01
8	Upper Meadow Valley CWMA	15.93	509.77	6,038.49
9	White River Valley CWMA	162.30	20,066.34	10,205.18
Subtotal CWMA's		471.14	\$ 44,887.09	\$ 79,518.82

Total of other Revenue

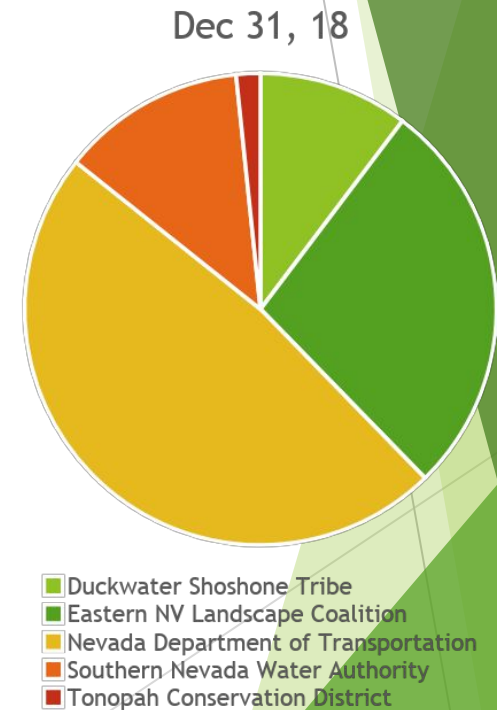
	Acres	Private Landowner/ State & Federal Agencies	Other Grant
Lincoln County	23.85	8,434.22	-
Nye County	42.68	10,900.15	-
White Pine County	36.11	12,705.52	-
Tonopah Conservation District	4.81	901.84	300.67
Bureau of Land Management	552.18	181,566.61	-
Southern Nevada Water Authority	448.63	53,626.80	-
Nevada Department of Agriculture	877.50	35,852.10	-
NDA Grant Member Share		8,572.96	-
Nevada Department of Transportation	580.41	116,799.01	-
Others	2,013.64	138,293.31	-
Miscellaneous income		72,834.77	-
Subtotal	4,579.81	640,487.29	300.67

2018 TCWC Total Income

	Acres	Private Landowner/ State	ENLC Grant
Total covered by ENLC	471.14		\$ 79,518.82
Total Private Landowners	107.45	86,401.78	
Total State and Federal Agencies	4,472.36	526,438.50	
Total Miscellaneous		72,834.77	
	5,050.95	685,675.05	79,518.82
		Total Income \$	765,193.87

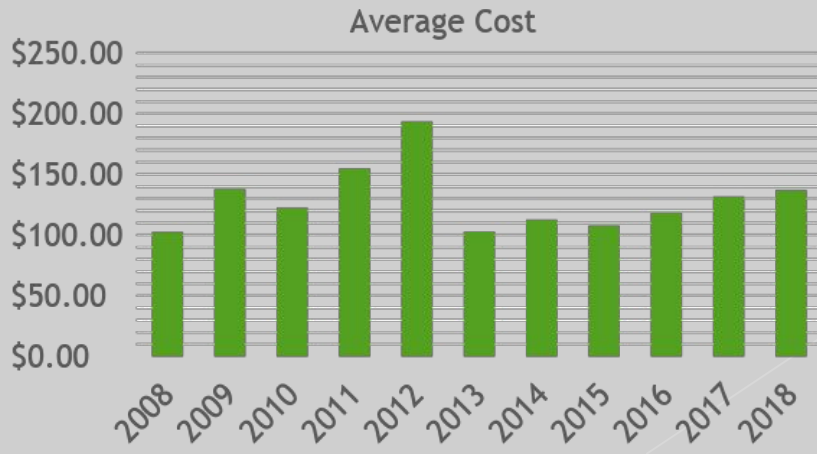
Accounts Receivable as of 12/31/18

Duckwater Shoshone Tribe	5,750.00
Eastern NV Landscape Coalition	
Newark/Long Valley CWMA	803.81
Pahranagat Valley CWMA	885.20
Railroad Valley CWMA	2,330.60
Snake Valley CWMA	661.34
Spring Valley CWMA	924.00
Steptoe-Butte Valley CWMA	2,259.00
Upper Meadow Valley CWMA	2,001.12
White River Valley CWMA	<u>5,459.07</u>
Total Eastern NV Landscape Coalition	<u>15,324.14</u>
Nevada Department of Transportation	26,830.87
Southern Nevada Water Authority	7,062.47
Tonopah Conservation District	<u>925.43</u>
TOTAL	<u>55,892.91</u>



Average Cost per Treatment Acre

Year	Acreage	Treatments	Average
2008	7,886.92	\$808,637.00	\$102.53
2009	4,562.52	\$629,196.91	\$137.91
2010	6,649.70	\$814,142.07	\$122.43
2011	4,729.48	\$732,183.56	\$154.81
2012	4,336.56	\$838,951.93	\$193.46
2013	6,654.67	\$684,203.67	\$102.82
2014	5,736.00	\$645,742.66	\$112.58
2015	7,437.26	\$802,246.46	\$107.87
2016	6,842.79	\$809,174.34	\$118.25
2017	6,231.10	\$821,042.74	\$131.77
2018	5,050.95	\$692,359.10	\$137.08
Totals	66,117.95	\$8,277,880.44	\$125.20

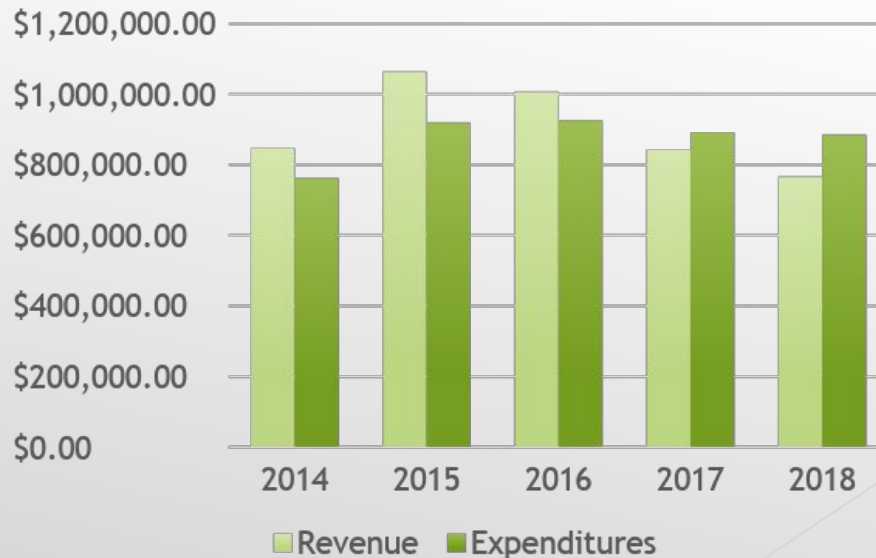


Annual Percentage of No Weeds Present

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Points evaluated	N/A	6,016	5,132	5,604	6,112	7,559	5,516	5,954	7,049	6,878	6,986	3,855
No weeds present	N/A	2,668	1,949	2,358	2,595	3,513	2,423	2,604	2,550	2,745	3,063	2,278
%	N/A	44	38	42	43	47	44	44	36	40	44	56

Last 5 years

Year	Revenue	Expenditures
2014	\$848,091.93	\$762,338.14
2015	\$1,064,119.06	\$919,216.06
2016	\$1,007,727.92	\$925,811.33
2017	\$843,981.44	\$892,234.95
2018	\$766,342.02	\$885,841.84



2019 OUTLOOK

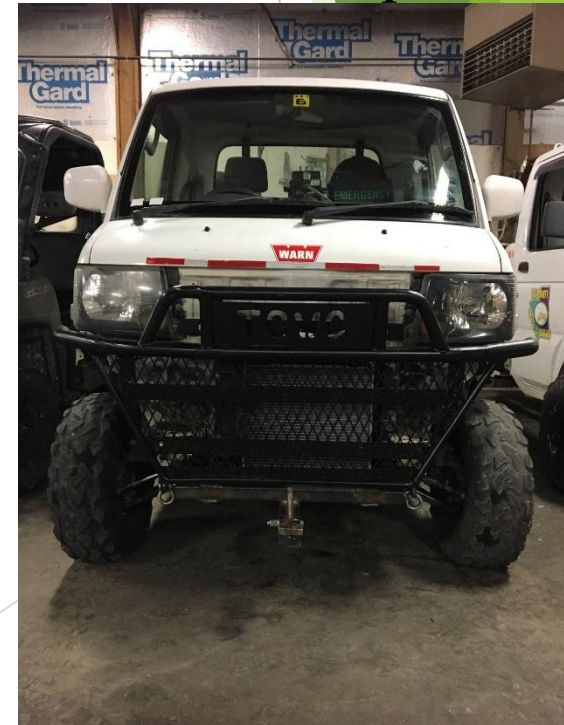
Projected Income	
BLM	292,217.30
CWMAs	31,500.00
TCD	72,239.08
NDA - Sage Grouse Grant	93,299.30
Duckwater	53,000.00
NDOT	200,395.58
SNWA	48,000.00
Kinross	69,615.00
Total	\$ 860,266.26

QUESTIONS?

T3 Truck



Mini Truck – Fabricated New Bumper



TCWC Financial

12/31/18



Maintenance Costs

Man Hours (2,458.0)

Equipment repair & maint. \$ 38,433.55

Repair parts and supplies \$ 9,619.41

Spay parts & supplies \$ 12,399.15

Tires \$ 4,348.30

TOTAL: \$ 64,800.41

Spray Costs

Contract labor	\$ 116,492.50
Fuel	\$ 31,524.81
Freight	\$ 1,813.53
Herbicide	\$ 123,059.57
TCWC In-kind	\$ 2,751.38
Travel Expense	\$ 13,587.15
TOTAL:	\$ 289,228.94

Inventory

	On Hand	Asset Value	Sales Price	Retail Value
Bronc-Max (in pints)	80.00	215.22	3.00	240.00
Bronc Triple (in pints)	20.00	90.00	5.25	105.00
Climb (in ounces)	199.00	202.23	1.00	199.00
Detonate (in pints)	60.00	724.65	9.50	570.00
Dye (in pints)	410.79	2,174.44	6.50	2,670.14
Escort XP (in ounces)	106.00	1,096.15	12.00	1,272.00
Esplanade (in ounces)	192.00	1,665.11	10.25	1,968.00
Gly Star Plus (in pints)	132.00	330.00	3.00	396.00
In-Place (in pints)	8.00	41.51	6.00	48.00
Mad Dog Plus (in pints)	200.00	387.50	2.50	500.00
Method (in ounces)	269.05	875.89	3.00	807.15
Milestone (in ounces)	1,183.50	2,758.96	3.00	3,550.50
MSO Concentrate w/Leci-Tech (in pints)	662.91	1,325.82	2.50	1,657.28
No Foam (in pints)	24.00	69.38	5.50	132.00
Plateau (in ounces)	2,688.00	2,421.01	1.25	3,360.00
Polaris (in ounces)	662.40	391.59	0.80	529.92
Rainier (in pints)	507.84	2,063.10	5.25	2,666.16
Rodeo (in pints)	48.00	151.10	3.75	180.00
Syl-Tac (in pints)	464.90	3,961.23	9.95	4,625.76
Telar (in ounces)	196.00	3,626.12	21.00	4,116.00
Tordon 22K (in pints)	385.60	3,179.75	10.00	3,856.00
Transline (in ounces)	1,152.00	1,615.55	1.75	2,016.00
Tri-Fol (in pints)	80.00	210.40	3.75	300.00
Weedar 64 (in pints)	97.95	196.76	2.75	269.36
TOTAL	9,829.94	29,773.47		36,034.26

Administration Costs

Capital Improvement	\$ 33,814.00
Drug Testing	\$ 885.50
Dues & Subscription	\$ 1,901.95
Lease	\$ 30,276.12
License	\$ 50.00
Misc. Expense	\$ 28,877.19
Payroll	\$ 407,349.74
Unemployment Expense	\$ 3,049.96
POOL/Pact Insurance	\$ 16,907.00
Training	\$ 1,010.00
Utilities	\$ 7,691.03
TOTAL	\$ 531,812.49

2018 Income/Expense

Revenue	\$	765,193.87
Interest Income	\$	<u>1,148.15</u>
Income Total	\$	766,342.02

Expense		
Maintenance	\$	64,800.41
Spray	\$	289,228.94
Administration	\$	<u>531,812.49</u>
Expense Total	\$	885,841.84

Difference \$ (119,499.82)

TCWC at 12/31/2018

2018 Income/Expense Difference \$ (119,499.82)

Liquid Assets

Inventory on hand @ 2018 worth \$ 36,034.27

Accounts Receivable @ end of 2018 \$ 55,892.91

Bank Account Balance @ end of 2018 \$ 177,831.68

TCWC Saving Account @ end of 2018 \$ 165,166.43

Total \$ 434,925.29

Net Worth \$ 315,425.47

QUESTIONS?

TRI-COUNTY

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