

1033 WEST
LAURIDSEN-BLVD

CLALLAM COUNTY
ROAD DEPT

PORT ANGELES
MAINTENANCE AND CONSTRUCTION

**Integrated Weed
Management
Season II**

Paving the Way to Pollinator Corridors

2017: C. C. Ordinance 923

Ordinance 923

AN ORDINANCE creating a chapter titled "*Integrated Weed Management*"

BE IT ORDAINED BY THE BOARD OF CLALLAM COUNTY COMMISSIONERS:

Section 1. Section .010, Purpose, is created to read as follows:

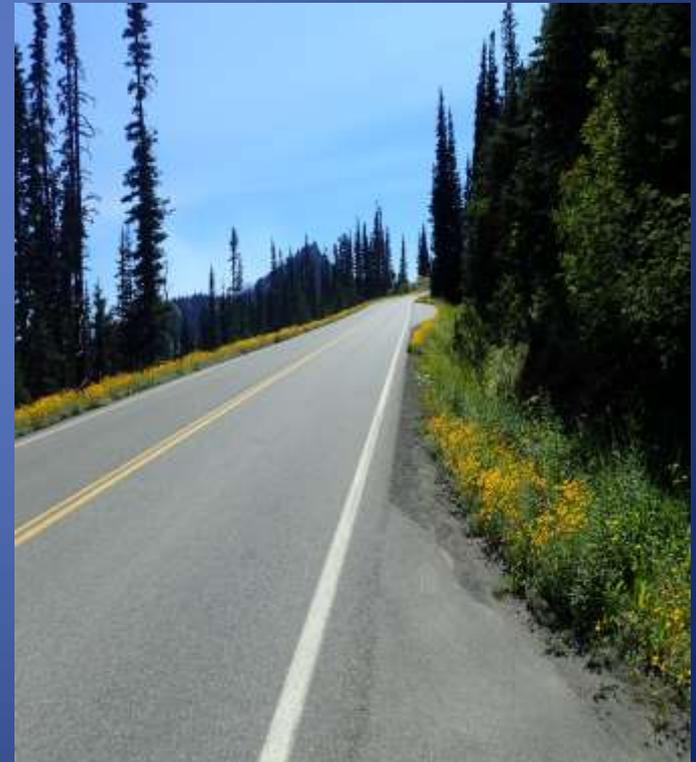
The purpose of this chapter is to establish an integrated weed management approach that aids Clallam County in keeping county owned or managed lands, including its improved and unimproved right-of-ways, quarries, parks and other county lands safe and operating at an efficient level of service while meeting its legal obligations and stewardship responsibilities to control noxious weeds.



Integrated Weed Management

The use of strategies that shift the competitive advantage from weeds

To desirable vegetation



IWM Plan



CLALLAM COUNTY ROAD DEPARTMENT INTEGRATED WEED MANAGEMENT PLAN 2018



Landscape Goals

1. Safe transport of people, goods and services



VISION

A map of Clallam County, Washington, showing the road system and surrounding areas. The map is overlaid with a grid and various colored regions. The text is overlaid on the map.

Roadsides: an Ecological opportunity?

Clallam County Road System

- 8 foot x 1 mile=1 acre
- 528 miles-8 foot/shoulder
- 2 shoulders X 528 miles=1,050 acres

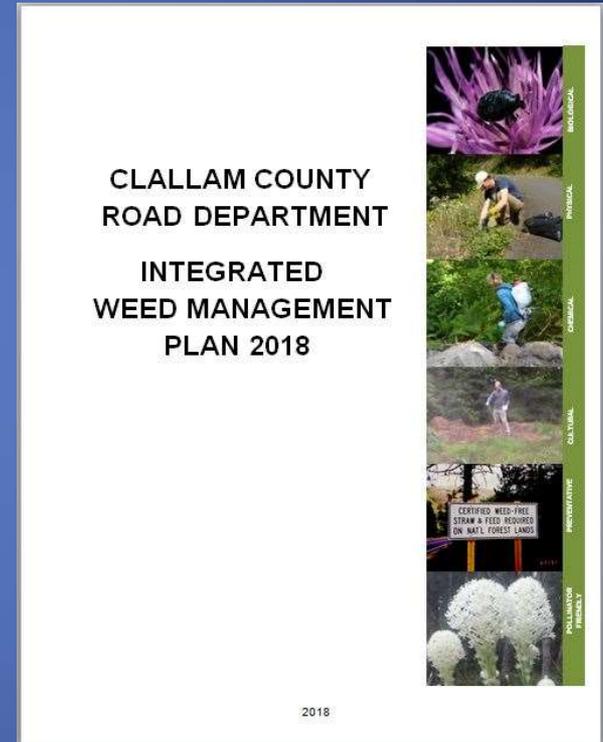
2018 Integrated Weed Management Plan

Landscape Goal:

Low maintenance, site-appropriate plant community. Native and pollinator friendly.

Treatment Priorities:

1. Regulated weeds on county roadsides.
2. Regulated weeds and select weeds in county rock sources.
3. Category 1 and 2 weeds at locations with most impact to **local agriculture**.
4. Category 1 and 2 weeds at locations with most impact to **local forestry**.
5. Requests by the public and local agencies.



Methods



How'd we do?

Treatments: (herbicide/manual)

93 Roads: 170 Miles

- 44 species
- 6.63 gallons herbicide
- 63 control days
- 140 Individuals responded in-situ

21 Pits: 176 acres

- 15.34 gallons herbicide

3 seasonal staff, Chain Gang, Partners

Master Gardener Monitoring Team (66% complete)

Complete report to be posted online





2017



2018



Measuring Success

Treatment Maps

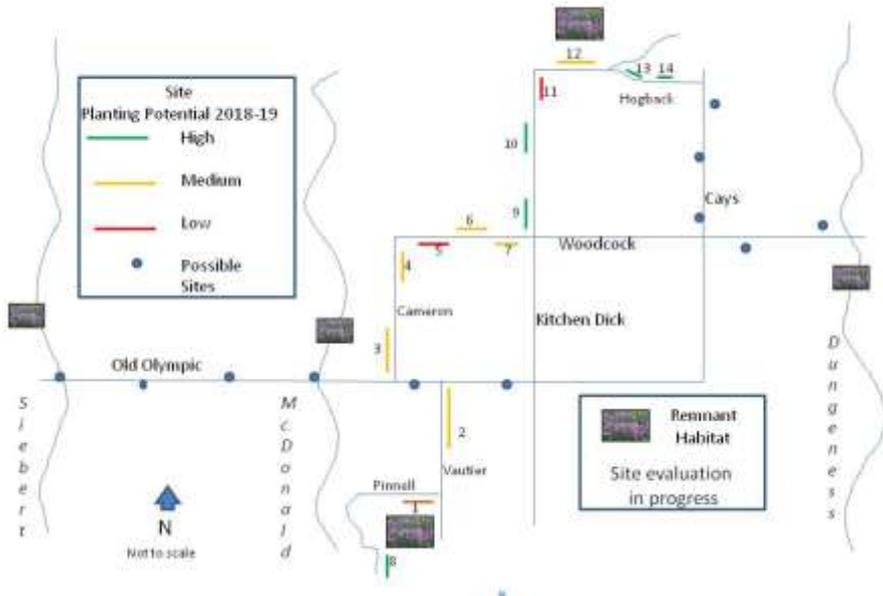


Density Metrics

Road Name	Treatment Method	Date	Total Miles	Acres Examined	Acres Treated	Manual Acres	Solid Acres Treated (includes)	Species Treated
		9/17/2018	0.45	1.2	0.40	0.03	-	CEMO, SEJA
Whiskey Creek Beach Rd	M	7/9/2018	0.47	0.6	0.37	-	0.002	SEJA
		9/20/2018	0.50	1.0	0.01	-	0.01	CYSC
Whitcomb-Dumas Rd	M, H	9/19/2018	0.70	2.0	2.00	0.00	0.15	CYSC, SEJA
Wilson Rd	M	9/13/2018	0.75	1.5	1.50		0.01	SEJA
Woodcock Rd	H	4/23/2018	0.02	0.0	0.002	0.14	-	COMA
		5/14/2018	0.10	1.0	0.20	0.01	-	COMA
		6/4/2018	1.60	2.5	2.50	0.37	-	CIAR, CIVU, COMA, CYSC, FOVU, LALA, RUAR
		6/6/2018	0.10	0.1	0.07	0.05	-	COMA, GERO, HEHE
	M	6/4/2018	0.10	0.3	0.002	-	5.7E-08	COMA
		6/12/2018	0.10	0.1	0.10	-	0.003	COMA
M, H	6/5/2018	1.90	3.8	3.80	0.32	0.01	CIAR, COMA, CYSC, FOVU	
Woods Rd	H	8/6/2018	1.00	1.2	1.20	0.75	-	CEMO, CIVU, GERO, LALA, RUAR*, SEJA
	M	7/23/2018**	-	-	-	-	0.09	CYSC, SEJA
Total Roads: 93		Days: 63	167 mi	359 ac.	302 ac.	2.61 ac.	33.65 ac.	42 Species

Native Plantings: Corridors

Pollinator Corridor Site Evaluation 2018





Life on the Edge

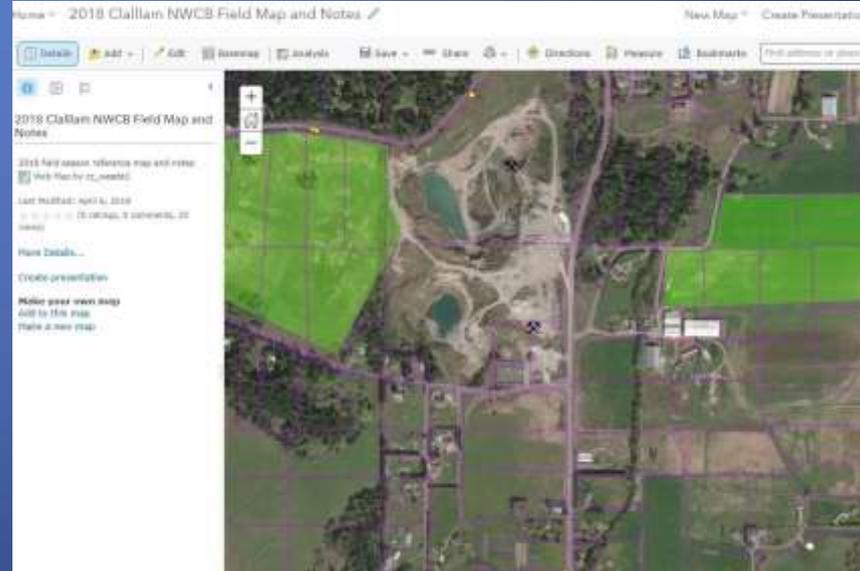
Keys to success:

1. Make the public aware
2. Utilize technology and landscape for boundaries
3. Invest in communication
4. Find compatible landscape goals
5. Publish and Report



Appendix E: Herbicide Volumes by County Road and Rock Source

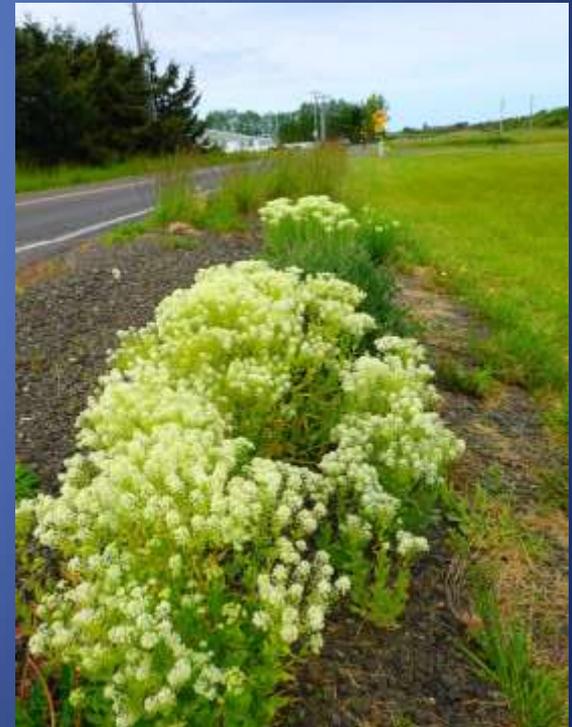
Road Name	Treated Road Section ^a	Total Miles	Mandicarb ^b (oz)	Eliminax 3A ^c (oz)	Valkar ^d (oz)	Polaris ^e (oz)	Aqua Flow ^f (oz)
Happy Valley Rd	JCT w/ Hwy 101 to River Rd	5.00	11.3	-	-	-	-
Hermiston Rd	193 Hermiston Rd to 800 Hermiston Rd	0.25	-	-	-	3	-





Roadsides Noxious Weeds: On the Move

- Disturbed and open ground-
Vulnerable to weed invasions
- Act as a conduit and vector
for spread of weeds
- Cross and link many
properties and land uses

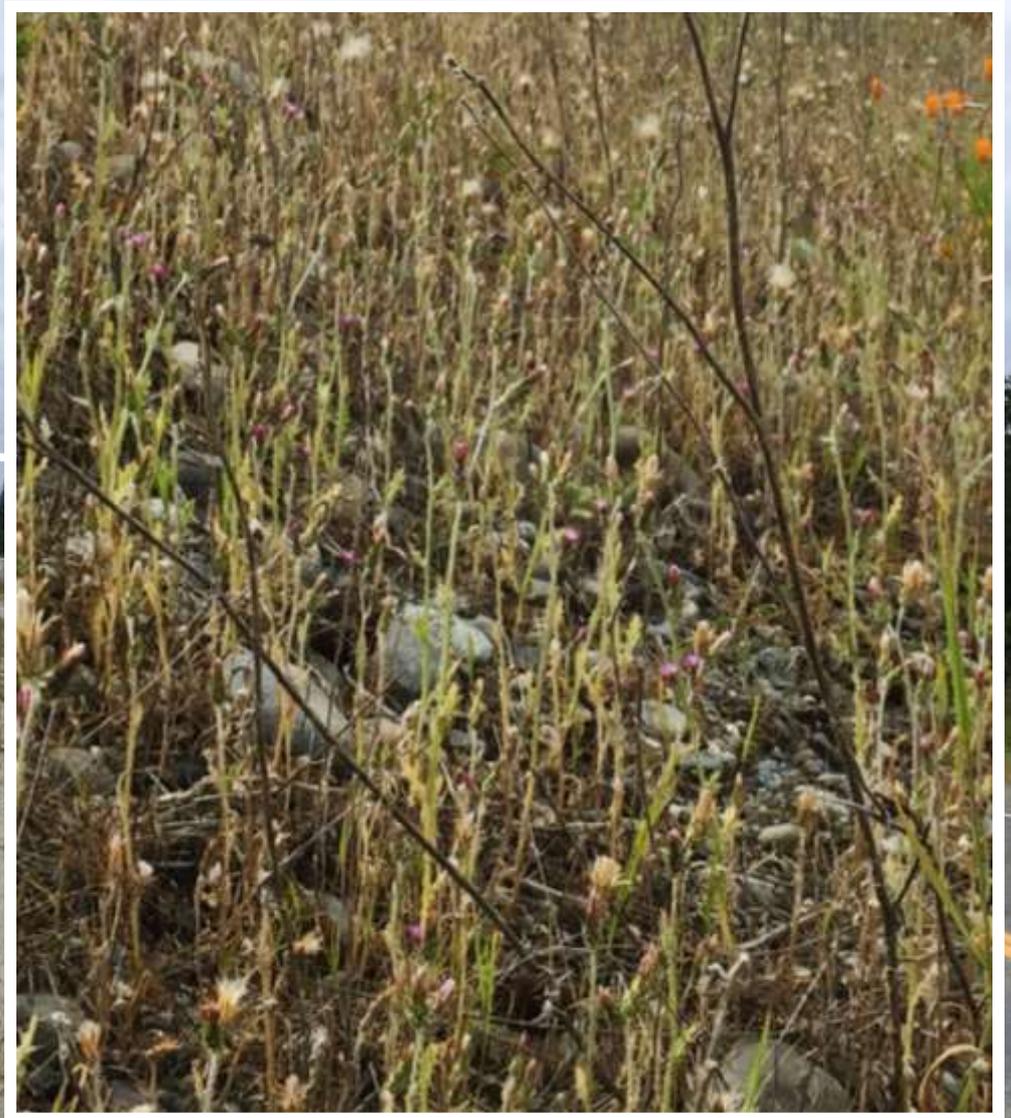


Roadsides Noxious Weeds: Italian Thistle

- *Carduus pycnocephalus*
- Class A Noxious Weed
- 2 sites in Sequim, including pit and road side locations
- Early blooming annual
- Flowerheads narrow and in terminal clusters of 1 to 5. Bracts at the base of flowerheads are stiff and upright with forward pointing hairs. Leaves green and nearly hairless above and have cobwebby hairs below. Leaves are pinnately lobed into spiny-lobed segments, with the terminal spine being most prominent.









2019 Plan

- Input on 2019 Plan priorities and project areas
- Public Requests
- Where are you working?
- Other County lands/Departments