2024 NCS Weed Identification & Management

Loretta Nichols Pend Oreille County Noxious Weed Board

Todays Presentation

Weed Law RCW 17.10
Tools
Noxious Weed Identification
Management Options
More Tools

Law's &

RCW 17.10 basic weed law & WAC 16-750 detailed noxious weed list & penalties.

- 1. Class A noxious weeds objective is to eradicate
- 2. Class B the goal is to control and prevent further spread
- 3. Class C weeds are often widespread throughout the State

Class A noxious Weeds

Class A weeds currently found in Pend Oreille County are bighead knapweed, flowering rush, and vochin knapweed.



Tools in the toolbox

- 1. Prevention education, weed seed free forage, mulch, soil, gravel, vehicle & equipment cleaning
- 2. Mechanical by hand, machinery mowing, pulling, hoeing, digging or cultivating
- 3. Cultural grazing management, fertilizing and competitive planting

More Tools . . .

- 4. Herbicides spraying the weeds
- 5. Biocontrol introducing specific insects or disease organisms that produce a suppression of the weeds

Fertilizing in conjunction with all management methods increases their effectiveness

Annual bugloss

Identification

- Pale blue flowers are tube shaped with white center
- Leaves alternate, wavy edges & have bristly hairs that come out of the warty bumps
- Annual that spread by seed

- Dig or pull
- Cutting NOT recommended (will cause mold in Hay)
- Herbicides 2,4-D + dicamba + metsulfuron + picloram mix (weed master, escort & tordon 22K) always add a surfactant & fertilizer

Annual Bugloss





Babysbreath

Identification

- Clusters of many small white flowers
- Leaves are opposite & narrow
- ▶ Tap root
- Perennial that spread by seed

- Dig or pull
- Cut to reduce seed
- Herbicides 2,4-D + triclopyr + metsulfuron mix (2,4-D, vastlan & escort) always add a surfactant & fertilizer

Babysbreath



Canada thistle

Identification

- Flower pink or lavender-purple
- Leaves alternate, wavy & spiney
- Stems smooth & 1 4 feet tall
- Perennial with deep root system that spreads by rhizomes.

- Cutting can be effective when done just before bloom for several years
- Herbicides 2,4-D, 2,4-D + dicamba (weedmaster); metsulfuron methyl (escort), clopyralid + triclopyr (prescott) or clopyralid (transline) always add surfactant & fertilizer.

Canada thistle



Canada thistle



Common catsear

Identification

- Flower yellow & strap shaped
- Leaves toothed, rough-hairy, basil
- Stems are sparsely branched
- Perennial spreads by windborne seeds.

- Digging
- Cutting is not effective
- Herbicides 2,4-D + dicamba (weedmaster) always add surfactant & fertilizer.

Common catsear



common bugloss

Identification

- Flowers are blue to purple or pink with white center & 5 petals
- Coarse hairs cover the entire plant
- Leave alternate
- Perennial that spread by seed & root fragments

Management

Dig

- Cutting NOT recommended (will cause mold in Hay)
- Herbicides 2,4-D + triclopyr + metsulfuron + picloram mix (2,4-d, vastlan, escort & tordon 22K) add a surfactant & fertilizer

Common bugloss



Flowering rush

Identification

- Flowers are pink an umbel
- Leaves are triangular
- Stem is round
- Perennial that spreads by bulbils

- Dig, hand pull NOT recommended
- Cutting NOT recommended
- Herbicides in the works
- Contact Weed Board



HAWKWEEDS YELLOW & ORANGE

Identification

- Flower heads small & composed of yellow or orange rays
- Leaves long, narrow, clustered at base & covered with fine hairs.
- Flower stalks hairy & sometimes have small leaf
- Perennial spreads vegetatively & by seeds.

- Can be cut and rolled up like sod
- Cutting NOT recommended as it leads to spread, also toxic, unknown toxin
- Herbicides 2,4-D + dicamba (weedmaster) or clopyralid + triclopyr (prescott) add surfactant & fertilizer.

HAWKWEEDS YELLOW & ORANGE





Hoary alyssum

Identification

- Flowers are small, white, arranged along an uncoiling stalk as they bloom.
- Leaves are long, narrow, slightly lobed, and covered with starshaped hairs.
- Annual that spreads by small, hard seeds.

- Dig or pulled
- Cutting NOT recommended toxic to horses, unknown toxin
- Herbicides 2,4-D + dicamba + metsulfuron methyl mix (Weedmaster & Escort) add surfactant & fertilizer

Hoary alyssum





Houndstongue

IDENTIFICATION

- Flowers are reddish-purple and at the end of stem.
- Leaves are long, narrow, hairy and alternate.
- Biennial that spreads by seed.

MANAGEMENT

- Dig or pull
- Do not cut toxic to an<mark>imals</mark>
- Herbicides 2,4-D + dicamba or metsulfuron methyl (Weedmaster, Escort) add surfactant & fertilizer

Houndstongue



HOUNDSTONGUE







KnapWEEDS diffuse & spotted Identification

- Flower heads small & composed of cream or purple ray & disc flowers.
- Bract characteristics indicate species, beige with short sharp spine or black comb-like fringe.
- Leaves long, narrow, slightly lobed, covered in short white hairs
 - Biennial & perennial, spreads by seeds

- Dug or pulled
- Cutting before bloom
- Herbicides 2,4-D + dicamba (weedmaster), clopyralid + triclopyr (prescott), or clopyralid (Transline) add surfactant & fertilizer.

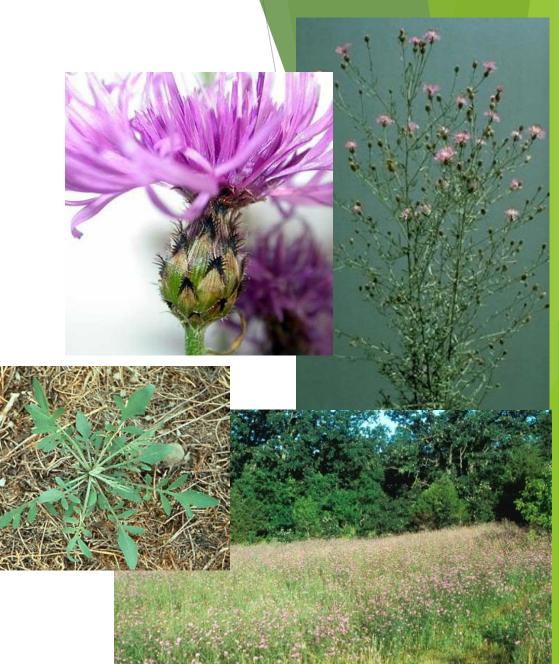
KnapWEEDS diffuse 4 control











kochia

Identification

- ► Flowers are small & green
- Leave alternate with soft hair on the underside
- Stems can have hair & often red tinged
- Annual that spread by seed

Management

Dig

- Cutting NOT recommended (toxic to livestock)
- Herbicides 2,4-D + dicamba + metsulfuron mix (weedmaster & escort) with a surfactant & fertilizer

kochia



Leafy spurge

Identification

- Flowers are small, greenish & clustered
- Leave alternate & narrow
- Toxic milky sap
- Perennial that spread by seed & rhizomes

- Digging NOT recommended
- Cutting NOT recommended
- Herbicides ask your local Weed Board about specific products add surfactant R-900 & fertilizer

Leafy spurge





Musk thistle

Identification

- Flowers pink-purple & drooping when mature & spiny bracts
- Leave dark green, deeply lobed & waxy
- Stems upper smooth, lower spiny & winged
- Biennial spread by seed

Management

Dig

- Cut (watch for regrowth)
- Herbicides 2,4-D + dicamba + metsulfuron mix (weedmaster & escort) add surfactant & fertilizer

Musk thistle



Ox-eye daisy

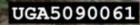
Identification

- Classic white daisy flowers are borne at the tops of the stems.
- Leaves are long, narrow, bright green & frilly along edges
- Stalks are fibrous, up to 3 feet.
- Perennial, spreading by seeds & crown division

- Cutting not effective
- Intensive fertilization program can suppress infestation
- Herbicides 2,4-D + dicamba (weedmaster), clopyralid + triclopyr mix (prescott), or metsulfuron (escort) add surfactant & fertilizer

Ox-eye daisy





plumeless thistle

Identification

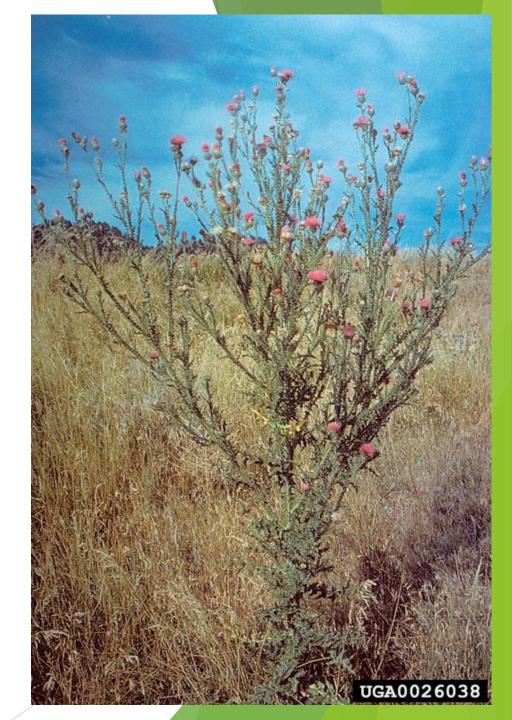
- Flowers are small & purple
- Leaves spines on margins with hairs on the undersides
- Stems have many leaf-like spines
- Biennial spreads by seed

Dig

- Cut (watch for regrowth)
- Herbicides 2,4-D + dicamba (weedmaster), clopyralid + triclopyr mix (prescott), or clopyralid (transline) add surfactant & fertilizer

Plumeless thistle





Rush skeletonweed

Identification

- Flowers bright yellow
- Leaves resemble a dandelion & inconspicuous
- Stem branched with few leaves, base has coarse brown hairs
- Perennial spreads by seed & root

- Dig remove all root
- Cutting NOT recommended (milky sap & root)
- Herbicides 2,4-D + triclopyr + metsulfuron + picloram mix (2,4d, vastlan, escort & tordon) add surfactant & fertilizer

Rush skeletonweed



Scotch thistle

Identification

- Flowers pink-lavender & globe shaped
- Leave covered with cotton like hair & yellow spines & 2 feet long
- Stems spiny & winged
- Biennial that spread by seed 40K

- Dig
- Cut (watch for regrowth)
- Herbicides 2,4-D + dicamba + metsulfuron mix (weedmaster & escort) add surfactant & fertilizer

Scotch thistle



St. johnswort

Identification

- Flowers yellow with tiny black dots
- Leaves oppositely arranged on stem & looks like it has pin holes
- Stems reddish & woody
- Perennial spread by seed & root

- Dig or Pulling repeated
- Cut not recommended (toxic)
- Herbicides 2,4-D + metsulfuron, mix (2,4-D & escort) add surfactant & fertilizer

St. johnswort





Tansy ragwort

Identification

- Flowers numerous yellow disked with 13 rays
- Leaves deeply lobed & alternate
- Stems branch near tip
- Annual, biennial or perennial spread by seed

- Dig or Pulling
- Cutting NOT recommended (toxic to livestock)
- Herbicides 2,4-D + dicamba, picloram mix (weedmaster or tordon) add surfactant & fertilizer

Tansy ragwort



Viper's bugloss

Identification

- Many bright blue funnel shaped flowers, fiddleneck appearance
- Leaves are hairy & covered with white bumps
- Stem covered with stiff hairs & reddish spots
- Biennial spreads by seed

Management

Dig

- Cutting NOT recommended (toxic to livestock)
- Herbicides 2,4-D + metsulfuron + picloram mix (2,4-d, escort & tordon 22K) add surfactant & fertilizer

Viper's bugloss



Wild Carrot queen ann's lace

Identification

Management

- Flowers several small white flat topped umbel
- Leaves alternate & fern like
- Strong carrot odor
- Biennial spreads by seed

Dig

- Cutting (mildly toxic to livestock)
- Herbicides triclopyr + metsulfuron mix (vastlan & escort) add surfactant & fertilizer

queen ann's lace Wild Carrot



Yellow Starthistle

Identification

- Yellow flowers with sharp spines
- Stems & leaves covered with woolly hairs giving it a grayish-green appearance
- Annual or biennial that spread by seed

- Dig or pull
- Cut (watch for regrowth)
- Herbicides 2,4-D, triclopyr + clopyralid or picloram (prescott & tordon 22k) add surfactant & fertilizer (hay harvest restrictions)

Yellow Starthistle



Product Recommendations

Always read the label it's the law!

Need help call the Weed Board Office 509 447 2402

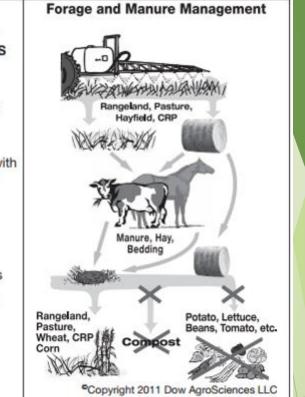
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	and Landscapes ^a												
•					ornamental shrubs/trees	annual flower beds	perennial flower beds	home vegetable gardens	home orchards (tree fruit/ nut)	home small fruit/berry	pasture, borders, and non-crop	Ш	
	Herbicide ingredient	Examples of brand names	Timing ^e and application notes	lawn/turf	ornamer	annual fi	annuai n perennia	home ve					ер Н
	2,4-D ^c	Broadrange, many others	Selective, POST	x	x						×		1L
	acetic acid	WeedPharm	Nonselective, POST		x	x	×	×	x	×			1
	benefin	Hi-Yield Crabgrass Control	Nonselective, PRE	x									
	clove or citrus oils	Burnout II	Nonselective, POST		x	×	×	×	×	×			1
	corn gluten meal	Concern, WOW!	Nonselective, PRE	x	x	×	x	×	×	×			<u> </u>
	dicambac	Weed Beater, Brush Killer	Selective, POST	×							×		n.
	dichlobenil	Image, Noxall	Nonselective, PRE		x				x	×			Len
	dithiopyr	Duraturf, Crabgrass Preventer	Selective, POST	x									×L
	fluroxypyr	Vista XRT	Nonselective, POST	x							x		~
	glyphosate	RoundUp, Pronto, Zap-It	Nonselective,		×	×	×	x	×	x		~	→
8.50 x 11.00 in	4		PUN	111								•	1.

WATCH

FOR Herbicides with this ON THE LABEL

IMPORTANT USE PRECAUTIONS AND RESTRICTIONS TO PREVENT INJURY TO DESIRABLE PLANTS

- Carefully read the section
 "Restrictions in Hay or
 Manure Use ."
- It is mandatory to follow the "Use Precautions and Restrictions" section of this label.
- Manure and urine from animals consuming grass or hay treated with this product may contain enough aminopyralid to cause injury to sensitive broadleaf plants.
- Hay can only be used on the farm or ranch where product is applied unless allowed by supplemental labeling.
- Consult with a Dow AgroSciences representative if you do not understand the "Use Precautions and Restrictions". Call [1-(800) 263-1196] Customer Information Group.



TESTING THE SOIL





Herbicide Contamina compost



MORE Tools

Digital Resource

- 1. Grass Snap App
- 2. Bayer VM App
- 3. PictureThis App
- 4. Plantsnap App
- 5. SoilWeb App

Grass snap app

A mobile app that is available for Apple and Android smart phones as well as other devices. It is free and makes photo-monitoring a snap. Useful to compare your weed control progress from year to year.

Bayer VM

- The official Bayer VM app includes:
- 1. Expert advice
- 2. Calibration calculators
- 3. Product information for all portfolios
- 4. Weather information and alerts
- 5. Weed identification library

Picture this app

A plant identification app! How do you use a plant identifier? It's simple. Just take or submit a photo to instantly and accurately identify thousands of plants, flowers, or trees, and then learn more about them with a detailed description - all in less than a second

PlantSnap App

PlantSnap is probably the most high-tech, comprehensive and accurate plant identification app created! Identify 90% of all known species of plants and trees. 585,000 species in our searchable database. Get instantaneous, accurate results. There is a monthly use fee with this app.



Thank you