

SKAMANIA COUNTY NOXIOUS WEED CONTROL BOARD

IMPACT OF COMMON TOXIC WEEDS ON FORAGING LIVESTOCK

<u>PLANT</u>	<u>POISON SYMPTOMS</u>	<u>CAUSTIVE AGENT</u>	<u>LIVESTOCK EFFECTED</u>
Arrowgrass <i>triglochin</i>	Rapid breathing – Spasms Convulsions – Death	prussic acid cyanide	Cattle – Sheep
Brackenfern <i>Pteridium</i>	Cattle – Hemorrhage – Death Horses – Stupified – timid	pteritanic acid cyanide	Cattle – Horses & Sheep
Buttercup <i>Ranunculus</i>	Mouth blisters & narcosis	ranunculin	All
Cocklebur <i>Xanthium</i>	Vomiting – Weakness – Ataxia Spasms & Death within 24 hrs	glycoside	Swine – Cattle – Sheep Goats
Death camas <i>Zigadenus</i>	Weakness – Prostration Convulsions – Coma – Death High Mortality	alkaloid	Cattle – Sheep – Goats
Dogbane (Indian Hemp) <i>Apocynum</i>	Dilation of pupils – Sore mouth Sweating – Death	glucoside	Horse – Cattle – Sheep Goats
False hellebore <i>Veratrum</i>	Monkey-faced lamb Crooked Calf Narcosis & Diarrhea	helleborin & glycosides	Ruminants
Coast fiddleneck <i>Amsinckia</i>	Hepatic Cirrhosis – Dermatitis	pyrrolizidine	All
St. Johnswort <i>Hypericum</i>	Photosensitization – Blisters & Scabs about eyes, mouth, ears, nose & feet	helianthrone (hypericin)	Cattle – Hogs – Sheep Goats
Common groundsel <i>Senecio</i>	Acute & chronic liver damage, Colic – Death	pyrrolizidine alkaloids	All
Poison hemlock <i>Conium</i>	Paralysis of skeletal muscle nerves, Death due respiratory failure – Birth defects	alkaloids (γ -coniine)	All
Horsetail <i>Equisetum</i>	Weight loss – Weakness - Eventual Death	thiaminase	Horses (In hay)
Jimsonweed <i>Datura</i>	Paralysis – Delirium – Respiratory Paralysis and Death	alkaloid (scopolamine)	All
Larkspur <i>Delphinium</i>	Constipation – Bloat – Death results from respiratory & cardiac failure	alkaloid (delphinine)	Cattle
Lupine <i>Lupinus</i>	Spasms – Cerebral excitement & death within 48 hours – Birth Defects	alkaloids (lupinine)	Sheep – Goats – Horses and Cattle
Nightshades <i>Solanum</i>	Diarrhea – Incoordination – Paralysis – Convulsions – Death	glycoside & alkaloid (solanine)	Swine – Sheep – Goats
Tansy Ragwort <i>Senecio</i>	Liver lesions – Staggering - Weakness and Death	alkaloids pyrrolizidine	All

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WESTERN WASHINGTON PLANTS KNOW TO BE POISONOUS TO HORSES

<u>PLANT</u>	<u>PROBABLE TOXIC DOSE</u>	<u>POISON SYMPTOMS</u>	<u>CAUSTIVE AGENT</u>	<u>COMMENTS</u>
Buttercup, creeping <i>Ranunculus repens</i>	Very large	Inflammation & narcosis	protoanemonin rununculin	Rarely eaten unless pasture overgrazed
Black nightshade <i>Solanum spp.</i>	1 – 10 lbs	Diarrhea – convulsions incoordination – death	alkaloid - solanine	Danger to stock probably subclinical
Common Groundsel <i>Senecio</i>	Cumulative 2-10 lbs.	Liver lesions – Weakness staggering – death	alkaloid - pyrrolizidine	Liver damage is permanent
Fern, bracken <i>Pteridium</i>	Large – cumulative	Appetite loss – timid stupified - incoordination	thiaminase cyanide	So abundant that poisoning is common
Fiddleneck <i>Amsinkia sp.</i>	Single dose 20 lbs. or	Liver Damage & failure – depression dermatitis – incoordination death	alkaloid – pyrrolizidine	Similar poison to Tansy ragwort
Foxglove <i>Digitalis purpurea</i>	¼ lb. Very toxic	Contracted pupils labored breathing convulsions – death	digitoxin & other glycosides	Rarely eaten fresh. Dangerous in hay
Horsetail <i>Equisetum arvense</i>	Large quantities Cumulative	Appetite loss – incoordination	thiaminase & alkaloids	Poison occurs when dry plants are fed in hay – rarely eaten fresh
Larkspur <i>Delphinium</i>	1 lb Very toxic	Constipation – bloat depression – paralysis	alkaloids - delphinine	Deadly
Lupine <i>Lupinus spp.</i>	600-800 lbs	Spasms – cerebral excitement – death	alkaloids - lupinine	Can cause birth defects
Oak <i>Quercus spp.</i>	Very large	Constipation – blood in urine	tanninus	Leaves can cause problems – acorn poisoning more commo
Poison hemlock <i>Conium maculatum</i>	¼% of body weight	Narcosis – paralysis & death	coniine & other alkaloids	Plant materials remain toxic for up to 3 years
Rhododendron <i>Rhododendron spp.</i>	Small	Vomiting – vertigo death from respiratory failure	glycosides	Dangerous
Tansy Ragwort & Common Groundsel <i>Senecio</i>	Cumulative 2-10 lbs.	Liver lesions – Weakness staggering – death	alkaloid - pyrrolizidine	Liver damage is permanent
Water hemlock <i>Cicuta douglasii</i>	2 to .8 lbs. Very Toxic	Teeth grinding – muscle spasms – respiratory failure – death	circutoxin	Roots & stem base most toxic. Most toxic plant in North America