

Clark County Vegetation Management Department

Impact of Common Toxic Weeds On Foraging Livestock

<u>PLANT</u>	<u>POISON SYMPTOMS</u>	<u>CAUSATIVE AGENT</u>	<u>LIVESTOCK AFFECTED</u>
<u>Arrowgrass</u> <i>Triglochin</i>	rapid breathing–spasms convulsions–death	prussic acid cyanide	Cattle, Sheep
<u>Brackenfern</u> <i>Pteridium</i>	cattle–hemorrhage–death* horses–stupefied–timid	pteritanic acid cyanide	Cattle, Horses & Sheep
<u>Buttercup</u> <i>Ranunculu</i>	Mouth blisters & narcosis	ranunculin	All
<u>Cocklebur</u> <i>Xanthium</i>	Vomiting–weakness–ataxia spasms & *death within 24 hrs*	glycoside	Swine, Cattle, Sheep, Goats
<u>Death camas</u> <i>Zigadenus</i>	weakness–prostration convulsions–coma–death *high mortality*	alkaloid (zigadenine)	Cattle, Sheep, Goats
<u>Dogbane</u> (Indian Hemp) <i>Apocynum</i>	dilation of pupils–sore mouth sweating–death*	glucoside	Horses, Cattle, Sheep, Goats
<u>False hellebore</u> <i>Veratrum</i>	monkey-faced lamb crooked calf narcosis & diarrhea	helleborin & glycosides	Ruminants
<u>Coast fiddleneck</u> <i>Amsinckia</i>	hepatic cirrhosis–dermatitis	pyrrolizidine	All
<u>St. Johnswort</u> <i>Hypericum</i>	photosensitization–blisters & scabs about eyes/mouth/ears/nose and feet	helianthrone (hypericin)	Cattle, Hogs, Sheep, Goats
<u>Common groundsel</u> <i>Senecio</i>	acute & chronic liver damage, colic - death*	pyrrolizidine alkaloids	All
<u>Poison hemlock</u> <i>Conium</i>	paralysis of skeletal muscle nerves, death due respiratory failure – birth defects	alkaloids (y-coniine)	All
<u>Horsetail</u> <i>Equisetum</i>	weight loss– weakness eventual death*	thiaminase	Horses (in hay)
<u>Jimsonweed</u> <i>Datura</i>	paralysis–delirium–respiratory paralysis and death*	alkaloid (scopolamine)	All
<u>Larkspur</u> <i>Delphinium</i>	constipation–bloat–death* results from respiratory & cardiac failure	alkaloid (delphinine)	Cattle
<u>Lupine</u> <i>Lupinus</i>	spasms–cerebral excitement & death w/in 48 hours–birth defects	alkaloids (lupinine)	Sheep, Goats, Horses, Cattle
<u>Nightshades</u> <i>Solanum</i>	diarrhea–incoordination– paralysis–convulsions–death	glycoside & the alkaloid (solanine)	Swine, Sheep, Goats
<u>Tansy Ragwort</u> <i>Senecio</i>	Liver lesions–staggering weakness and death	alkaloids pyrrolizidine	All

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Western Washington Plants Known to Be Poisonous to Horses

<u>PLANT</u>	<u>PROBABLE TOXIC DOSE</u>	<u>POISON SYMPTOMS</u>	<u>CAUSATIVE AGENT</u>	<u>COMMENTS</u>
<u>Buttercup, creeping</u> <i>Ranunculus repens</i>	very large	inflammation & narcosis	protoanemonin rununculin	rarely eaten unless pasture overgrazed
<u>Black nightshade</u> <i>Solanum spp.</i>	1 – 10 lbs	diarrhea–convulsions - incoordination – death	alkaloid - solanine	danger to stock probably sub-clinical
<u>Common Groundsel</u> <i>Senecio</i>	cumulative 2-10 lbs.	liver lesions–weakness staggering–death	alkaloid - pyrrolizidine	liver damage is permanent
<u>Fern, bracken</u> <i>Pteridium</i>	Large quantity cumulative	appetite loss-timid- stupefied-incoordination	thiaminase cyanide	so abundant that poisoning is common
<u>Fiddleneck</u> <i>Amsinkia sp.</i>	Single dose 20 lbs. or	liver damage & failure depression–dermatitis incoordination - death	alkaloid - pyrrolizidine	similar poison to tansy ragwort
<u>Foxglove</u> <i>Digitalis purpurea</i>	¼ lb. very toxic	contracted pupils-labored breathing-convulsions-death	digitoxin & other glycosides	rarely eaten fresh. dangerous in hay
<u>Horsetail</u> <i>Equisetum arvense</i>	large quantity cumulative	appetite loss incoordination	thiaminase & alkaloids	poison occurs when dry plants are fed in hay rarely eaten fresh
<u>Larkspur</u> <i>Delphinium</i>	1 lb – very toxic	constipation-bloat depression -paralysis	alkaloids - delphinine	deadly
<u>Lupine</u> <i>Lupinus spp.</i>	600-800 lbs	spasm -cerebral excitement - death	alkaloids - lupinine	can cause birth defects
<u>Oak</u> <i>Quercus spp.</i>	very large	constipation - blood in urine	tanninus	leaves can cause problems – acorn poisoning more common
<u>Japanese Yew</u> <i>Taxus cuspidata</i>	little as 0.1-0.5% of body wgt	no warning signs-almost immediate death due to cardiac & or respiratory collapse	alkaloids - taxine	exceptionally toxic affects all animals
<u>Rhododendron</u> <i>Rhododendron spp.</i>	small	vomiting-vertigo-death from respiratory failure	glycosides	dangerous
<u>Tansy Ragwort & Common Groundsel</u> <i>Senecio</i>	cumulative 2-10 lbs	liver lesions-weakness, staggering-death	alkaloid - pyrrolizidine	permanent liver damage
<u>Water hemlock</u> <i>Cicuta douglasii</i>	.2 to .8 lbs. very toxic	teeth grinding-muscle spasms-respiratory Failure-death	circutoxin	roots & stem base most toxic plant in North America