

# An Annotated Checklist of Poisonous or Injurious Plants of New Mexico

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## INTRODUCTION

Poisonous plants represent one of the greatest hazards to livestock ranching on western rangelands. In addition to direct losses by death, there are those due to weight loss, poor reproductive performance, and poor health. Through scientific reports and practical experience, stockmen have learned to recognize poisonous plants and keep livestock losses to a minimum. Some of the things that can be done to prevent problems with poisonous plants are:

1. Know the poisonous plants. This is the first line of defense against toxic plants.
2. Practice good range management. To a limited degree, poisonous plants will always be present on rangelands, but the real danger is when the plants are eaten. Livestock poisoning is more often the result of poor range condition and poor management than the presence of poisonous plants. Most poisonous plants are unpalatable and will be eaten only if other good quality forage is not available.
3. Feed adequate mineral and vitamin A supplements. Livestock in poor health are more susceptible to many toxins than are healthy animals.
4. Provide adequate forage, especially during early spring or drought periods.
5. Avoid driving livestock through infested or poor condition range. Hungry animals lose their selectivity, and poor rangelands contain far more poisonous plants than those in good condition.
6. Use control measures—herbicides, grubbing, etc.—on heavy infestations of toxic plants.

The most common toxins in New Mexico poisonous plants are alkaloids, glycosides, minerals, nitrogenous compounds, oxalates and other organic acids, compounds causing photosensitivity, and resins or resinoids (see Tables 1 and 2).

**Alkaloids.** These are the most powerful poisons and produce strong physiological reactions, generally affecting the nervous system. The alkaloid is usually distributed throughout the plant and is active whether it is fresh or dry. There are no antidotes for alkaloid poisoning. Some of the common alkaloid-containing range plants are locoweeds (*Astragalus* spp.), larkspur (*Delphinium* spp.), groundsel (*Senecio* spp.), and lupine (*Lupinus* spp.).

**Glycosides.** Glycosides are compounds composed of a toxic agent combined with a sugar. The toxic agent is harmful when released from the glycosides. Cyanide (HCN, prussic acid) is the most common toxin in the glycosides. Glycoside levels in the plant are often related to environmental factors such as freezing, wilting, drought, and crushing. Cyanide is generally not retained in plant tissues after drying. Catclaw (*Acacia greggii*), chokecherry (*Prunus virginiana*), and

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johnsongrass (*Sorghum halepense*) are potential cyanide producers.

**Minerals.** Excessive absorption of certain minerals may be dangerous to livestock. Selenium is possibly the most important poisonous mineral in New Mexico. It may be found in some species of locoweed (*Astragalus* spp.), fourwing saltbush (*Atriplex canescens*), snakeweed (*Xanthocephalum sarothrae*), and asters (*Aster* spp.). Prince's plume (*Stanleya pinnata*) grows only on seleniferous soils.

**Nitrogenous compounds.** Both range and crop plants may contain potentially toxic levels of nitrogenous compounds. Care must be taken during drought or after fertilizer or herbicide application. Nitrates are also toxic in dry material and silage. Nitrogenous compounds often are found in many species of the amaranth (*Amaranthaceae*), sunflower (*Asteraceae*), mustard (*Brassicaceae*), and goosefoot (*Chenopodiaceae*) families.

**Oxalates and organic acids.** Many plants contain oxalates, but few species in New Mexico contain enough to be considered dangerous. Halogeton and dock (*Rumex* spp.) possess soluble oxalates that are corrosive to animal tissue. Non-ruminants are more susceptible to oxalate poisoning than ruminants because the large rumen capacity enables the animal to detoxify small amounts of soluble oxalates. Most cases of ruminant poisoning occur on poor condition rangelands.

**Compounds causing photosensitivity.** On certain occasions, animals become hypersensitive to light. Photodynamic pigments contained in horsebrush (*Tetradymia* spp.), lechuguilla (*Agave lechuguilla*), sacahuista (*Nolina* spp.), and puncture-vine (*Tribulus terrestris*) react with light to produce swelling about the head, blistering, and a sunburned appearance. Damage may be so severe that the lips, ears, and eyelids may be lost. Bacterial infection may also set in.

**Resins or resinoids.** These are highly complex organic compounds that are present in a number of plants. Resins are found in milkweeds (*Asclepias* spp.), marijuana (*Cannabis sativa*), water hemlock (*Cieuta douglasii*), and china-berry tree (*Melia azedarah*).

Several noxious plants contain no poisonous compounds, but if grazed, cause injury through mechanical means. This is often by long awns or bristles (*Aristida* spp., *Hordeum jubatum*, *Stipa* spp.) or by stinging hairs (*Urtica* spp.).

**Table 1. Plant Toxins and Their Effects on Livestock**

Toxin	Effect and Symptoms
Alkaloids	Nervous system, liver damage, locoism, trembling, abortion, depression, paralysis, vomiting, loss of coordination, coma, and death.
Glycosides	Excitement, gasping, staggering, paralysis, prostration, convulsions, emphysema, blindness, coma, and death.
Mineral poisoning	Birth defects, loss of appetite, depression, labored breathing, excessive urination, coma, and death through respiratory and myocardial failure.
Nitrogenous compounds	Abortion, depression of lactation, discolored urine, vitamin A deficiency, brown blood, trembling, weakness, labored breathing, hemorrhages, coma, and death.
Oxalates	Nervous system, reduced coagulability of blood, acute kidney inflammation, dullness, colic, depression, labored breathing, prostration, weakness, coma, and death.
Compounds causing photosensitivity	Liver damage, inflammation of skin, itching, necrosis of skin, restlessness, leakage of serum through skin; death does not occur directly from the photodynamic action, but through kidney failure.
Resins or resinoids	Direct irritation of the nervous and muscular tissue, depression, weakness, staggering, labored breathing, elevated temperature, dilation of pupils, degeneration of kidneys, coma, and death.

## POISONOUS PLANTS OF NEW MEXICO

There are at least 270 poisonous plants known to occur in New Mexico (Table 3). The following list includes all New Mexico range plants known to be poisonous or injurious to livestock or man, even though many of these do not pose a threat except in exceptional circumstances. Also included are a few very common poisonous ornamentals or garden plants that may occasionally escape. The major poisonous plants that are likely to cause problems and should be watched for are marked with an asterisk (\*). The list is arranged in alphabetical order by plant family and scientific name. Indications of toxins and animals affected are only those reported and verified. The plants may be toxic to animals other than those listed.

**Table 2. Distribution of Toxins in the Major Plant Families in New Mexico**

Family Toxin	Number of species in which toxin occurs in New Mexico	Family Toxins	Number of spe- cies in which toxin occurs in New Mexico	Family Toxin	Number of species in which toxin oc- curs in New Mexico
<b>Fabaceae</b>		Photosensitization	2	<b>Brassicaceae</b>	
Alkaloids	21	Unknown	2	Allylisothiocyanate	2
Dicoumarin	2	<b>Solanaceae</b>		Glycosides	1
Glycosides	3	Alkaloids	11	Mustard oil	1
Photosensitization	3	Glycosides	1	Selenium	1
Saponin	1	Unknown	2	Unknown	2
Selenium	13	<b>Chenopodiaceae</b>		<b>Asclepiadaceae</b>	
Unknown	10	Antihelminthic oil	1	Alkaloids	7
<b>Asteraceae</b>		Glycosides	1	Glycosides	7
Acrid substance	2	Nitrogenous compounds	3	Resinoids	7
Alcohol	1	Oxalates	4	<b>Rosaceae</b>	
Alkaloids	5	Photosensitization	1	Glycosides	7
Glycosides	3	Selenium	3	<b>Euphorbiaceae</b>	
Nitrogenous compounds	2	<b>Ranunculaceae</b>		Acrid substance	3
Photosensitization	2	Alkaloids	6	Croton oil	1
Saponin	2	Glycosides	4	Photosensitization	1
Selenium	11	Hairballs	1	Unknown	1
Unknown	21	Irritant oils	1	<b>Liliaceae</b>	
Volatile oils	2	<b>Apiceae</b>		Alkaloids	4
<b>Poaceae</b>		Alcohol	2	Unknown	2
Fungus	1	Alkaloids	2	<b>Polygonaceae</b>	
Glycosides	3	Nitrogenous compounds	2	Nitrogenous compounds	1
Mechanically injurious	10	Unknown	2	Oxalates	4
Nitrogenous compounds	3			Photosensitization	1

**Table 3. Number of Poisonous or Noxious Range Plants in New Mexico**

Family	Number of species	Family	Number of species	Family	Number of species
Fabaceae	52	Ranunculaceae	12	Rosaceae	6
Asteraceae	50	Apiaceae	10	Polygonaceae	5
Poaceae	32	Brassicaceae	8	38 other families	66
Solanaceae	14	Asclepiadaceae	7		
Chenopodiaceae	12	Euphorbiaceae	7	<b>Total</b>	<b>281</b>

## **Agavaceae**

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### ***Agave lechuguilla* Torr.**

Common name: lechuguilla

Toxin: unknown substances producing hepatogenic photosensitization; saponins

Habitat: dry hills and plains

Animals affected: sheep, goats

### ***Nolina microcarpa* Wats.**

Common name: beargrass, sacahuista

Toxin: unknown

Habitat: dry, rocky hills and plains

Animals affected: cattle, sheep, goats

### ***Nolina texana* Wats.**

Common name: beargrass, sacahuista

Toxin: unknown

Habitat: dry, rocky hills and plains

Animals affected: cattle, sheep, goats

## **Amaranthaceae**

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### **\**Amaranthus palmeri* S. Wats.**

Common name: pigweed, carelessnessweed, redroot amaranth

Toxin: nitrates

Habitat: gardens and old fields, waste areas

Animals affected: cattle, sheep, horses

### **\**Amaranthus retroflexus* L.**

Common name: pigweed, carelessnessweed, redroot amaranth

Toxin: nitrates

Habitat: gardens and old fields, waste places

Animals affected: cattle, sheep, horses

## **Anacardiaceae**

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### **\**Toxicodendron radicans* (L.) Kuntze**

Common name: poison ivy

Toxin: urushiol, a skin irritant

Habitat: moist areas at lower elevations, ravines

Animals affected: humans (dermatitis)

## **Apiaceae**

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### ***Apium graveolens* L.**

Common name: celery

Toxin: nitrates (in the tops)

Habitat: waste ground

Animals affected: cattle

### ***Berula erecta* (Huds.) Cov.**

Common name: water parsnip

Toxin: alkaloids

Habitat: waterways, wet habitats

Animals affected: cattle

### **\**Cicuta douglasii* (DC.) Coull. & Rose**

Common name: water hemlock

Toxin: cicutoxin (alcohol)

Habitat: streams and marshes

Animals affected: all animals and humans

*Conium maculatum* L.

Common Name: poison hemlock

Toxin: alkaloids

Habitat: moist roadsides, ditches, edges of cultivated fields

Animals affected: all animals and humans

### ***Daucus carota* L.**

Common name: wild carrot, Queen Ann's lace

Toxin: nitrates

Habitat: waste areas

Animals affected: horses, cattle

### ***Pastinaca sativa* L.**

Common name: parsnip

Toxin: unknown

Habitat: disturbed ground, cultivated areas

Animals affected: humans

### ***Sium suave* Walt.**

Common name: water parsnip

Toxin: unknown

Habitat: marshes and wet soils

Animals affected: cattle, swine

## **Apocynaceae**

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### ***Apocynum androsaemifolium* L.**

Common name: spreading dogbane

Toxins: resins, glycosides

Habitat: open places, coarse soils along streams, meadows and wooded hillsides

Animals affected: cats, dogs

### ***Apocynum cannabinum* L.**

Common name: dogbane, hemp dogbane

Toxin: resins, glycosides

Habitat: open places, coarse soils along streams

Animals affected: cats, dogs

### ***Nerium oleander* L.**

Common name: oleander

Toxin: glycosides

Habitat: common ornamental

Animals affected: cattle, sheep, horses, humans

## **Asclepiadaceae**

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### **\**Asclepias asperula* (Decne) Woodson**

Common name: rough milkweed, spider antelopehorn

Toxins: resinoids, glycosides, alkaloids

Habitat: open dry plains, flats, desert swales, sandy or rocky hillsides with pinyon, juniper, or oak

Animals affected: sheep, cattle goats, horses, poultry

**\**Asclepias incarnata* L.**

Common name: swamp milkweed  
Toxin: resinoids, glycosides, alkaloids  
Habitat: marshes  
Animals affected: sheep, cattle, horses, poultry

**\**Asclepias latifolia* (Torr.) Raf.**

Common name: broadleaf milkweed  
Toxin: resinoids, glycosides, alkaloids  
Habitat: dry plains in sandy soils  
Animals affected: sheep, goats

**\**Asclepias pumila* Voil.**

Common name: low whorled milkweed, plains whorled milkweed  
Toxin: resinoids, glycosides, alkaloids  
Habitat: plains, low hills  
Animals affected: sheep, goats

**\**Asclepias speciosa* Torr.**

Common name: showy milkweed  
Toxin: resinoids, glycosides, alkaloids  
Habitat: prairies, open areas  
Animals affected: sheep, goats

**\**Asclepias subverticillata* Vail.**

Common name: whorled milkweed, western whorled milkweed  
Toxin: resinoids, glycosides, alkaloids  
Habitat: dry plains and foothills, waterways, irrigation canals  
Animals affected: sheep, goats

**\**Asclepias verticillata* L.**

Common name: whorled milkweed  
Toxin: resinoids, glycosides, alkaloids  
Habitat: plains of northeastern New Mexico  
Animals affected: sheep, cattle, horses

**Asteraceae**

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***Achillea millefolium* L.**

Common name: yarrow  
Toxin: alkaloids and glycosides  
Habitat: various  
Animals affected: cattle, sheep, horses

***Anthemis cotula* L.**

Common name: dog fennel, mayweed  
Toxin: acrid substance irritating to mucous membranes  
Habitat: disturbed soils, fields, waste places  
Animals affected: poultry

***Artemisia filifolia* Torr.**

Common name: sand sagebrush  
Toxin: volatile oils  
Habitat: sandy soils  
Animals affected: horses

***Artemisia spinescens* (DC.) Eaton**

Common name: bud sagebrush  
Toxin: volatile oils  
Habitat: dry plains, hills  
Animals affected: cattle, sheep

***Aster adscendens* Lindt.**

Common name: aster  
Toxin: selenium  
Habitat: mountain meadows  
Animals affected: cattle, sheep

***Aster coeruleus* DC.**

Common name: aster  
Toxin: selenium  
Habitat: wet ground, along streams  
Animals affected: cattle, sheep

***Aster commutatus* Gray**

Common name: aster  
Toxin: selenium  
Habitat: open fields, waste grounds  
Animals affected: cattle, sheep

***Aster ericoides* L.**

Common name: aster  
Toxin: selenium  
Habitat: meadows, open woods  
Animals affected: cattle, sheep

***Aster glaucoides* Blake**

Common name: gray aster  
Toxin: selenium  
Habitat: mountains  
Animals affected: sheep

***Aster laevis* L.**

Common name: smooth aster  
Toxin: selenium  
Habitat: scattered in dry to moist places  
Animals affected: cattle, sheep

***Aster occidentalis* (Nutt.) Torr. & Gray**

Common name: western aster  
Toxin: selenium  
Habitat: mountain meadows at moderate elevations  
Animals affected: cattle, sheep

***Aster pauciflorus* Nutt.**

Common name: fewheaded aster  
Toxin: selenium  
Habitat: widespread in saline soils  
Animals affected: cattle, sheep

***Baccharis pteronioides* DC.**

Common name: yerba-de-pasmo  
Toxin: unknown  
Habitat: dry, open hills  
Animals affected: cattle, sheep

***Bahia oppositifolia* (Nutt.) DC.**

Common name: bahia, plains bahia  
Toxin: cyanogenetic glycoside  
Habitat: dry soils of plains and hills  
Animals affected: cattle, sheep

**\**Baileya multiradiata* Harv. & Gray**

Common name: desert baileya, desert marigold  
Toxin: unknown  
Habitat: sandy and gravelly soils in dry areas  
Animals affected: sheep, goats

**\**Baileya pleniradiata* Harv. & Gray**

Common name: desert marigold, desert baileya  
Toxin: unknown  
Habitat: mesas, deserts  
Animals affected: sheep, goats

***Centaurea repens* L.**

Common name: Russian knapweed  
Toxin: unknown  
Habitat: fields, roadsides, waste places  
Animals affected: horses

***Centaurea solstitialis* L.**

Common name: yellow starthistle  
Toxin: unknown  
Habitat: waste grounds  
Animals affected: horses

***Chrysothamnus nauseosus* (Pall.) Britton**

Common name: rubber rabbitbrush  
Toxin: unknown  
Habitat: dry, open places at moderate and low elevations  
Animals affected: cattle, sheep, horses

***Conyza coulteri* Gray**

Common name: conyza  
Toxin: unknown  
Habitat: plains, valleys, alkaline soils  
Animals affected: sheep

***Flourensia cernua* DC.**

Common name: tarbush  
Toxin: unknown  
Habitat: dry plains, hills, mesas  
Animals affected: sheep, goats

***Grindelia squarrosa* (Pursh) Dunal**

Common name: curlycup gumweed  
Toxin: selenium  
Habitat: dry open places, prairies, plains, roadsides, fields  
Animals affected: cattle, sheep, horses

**\**Gutierrezia microcephalum* (DC.) Gray**

Common name: broomweed, perennial snakeweed, turpentine weed, snakeweed, matchweed  
Toxin: saponin

Habitat: dry plains, slopes, mesas

Animals affected: cattle, sheep, goats, swine, chicks, rabbits

**\**Gutierrezia sarothrae* (Pursh) Britt. & Rusby**

Common name: broom snakeweed, snakeweed, matchbrush, turpentine weed  
Toxin: saponin

Habitat: dry stony plains, slopes, mesas

Animals affected: cattle, sheep, goats, swine, chicks, rabbits

**\**Haplopappus tenuisectus* (Greene) Blake**

Common name: burroweed  
Toxin: tremetol (alcohol)  
Habitat: dry slopes and mesas  
Animals affected: cattle, sheep

**\**Helenium autumnale* L.**

Common name: sneezeweed, bitterweed  
Toxin: unknown acrid substance  
Habitat: moist low ground in lowlands and foothills  
Animals affected: cattle, sheep

**\**Helenium hoopesii* Gray**

Common name: sneezeweed, orange sneezeweed  
Toxin: glycoside (dugaldin)  
Habitat: high mountain slopes and valleys, often forming dense stands in moist, sunny, undisturbed localities  
Animals affected: cattle, sheep

**\**Helenium microcephalum* DC.**

Common name: sneezeweed  
Toxin: unknown  
Habitat: moist ground  
Animals affected: cattle, sheep, horses, mules

**\**Hymenoxys odorata* DC.**

Common name: bitterweed, bitter rubberweed  
Toxin: unknown  
Habitat: semiarid range  
Animals affected: sheep

**\**Hymenoxys richardsonii* (Hook.) Cockerell**

Common name: pingue, Colorado rubberweed, rubberweed  
Toxin: unknown, may be associated with mineral imbalance  
Habitat: dry, rocky, or clay soils of plains and mountain slopes  
Animals affected: cattle, sheep, goats

**\**Isocoma wrightii* (Gray) Rydb.**

Common name: rayless goldenrod, jimmyweed, burrowweed  
Toxin: tremetol (alcohol)  
Habitat: river valleys, drainage areas, irrigation canals  
Animals affected: cattle, sheep, horses



***Lactuca serriola* L.**

Common name: wild lettuce  
Toxin: unknown  
Habitat: waste grounds, valleys, streamsides  
Animals affected: cattle

**\**Oxytenia acerosa* Nutt.**

Common name: copperweed  
Toxin: unknown  
Habitat: alkaline soils in draws and streambeds, desert ranges  
Animals affected: cattle, sheep

***Psathyrotes annua* (Nutt.) Gray**

Common name: annual psathyrotes  
Toxin: unknown  
Habitat: dry, sandy, often alkaline soils, especially creek-beds, dry washes  
Animals affected: sheep

**\**Psilostrophe sparsiflora* (Gray) A. Nels.**

Common name: paperflower  
Toxin: unknown, induces kidney damage  
Habitat: dry, open range  
Animals affected: sheep

**\**Psilostrophe tagetinre* (Nutt.) Greene**

Common name: paperflower  
Toxin: unknown, induces kidney damage  
Habitat: dry, open range  
Animals affected: sheep

***Rudbeckia laciniata* L.**

Common name: golden glow, coneflower, thimble weed  
Toxin: unknown  
Habitat: moist, rich soils  
Animals affected: swine, sheep

***Rudbeckia hirta* L.**

Common name: black-eyed Susan  
Toxin: unknown  
Habitat: open slopes, meadows  
Animals affected: cattle, swine

***Sartwellia flaveriae* Gray**

Common name: sartwellia  
Toxin: unknown  
Habitat: alkaline soils, gypsum  
Animals affected: cattle, sheep, goats

**\**Senecio douglasii* DC. var. *longilobus* (Benth.)**

**L. Benson**

Common name: threadleaf groundsel  
Toxin: pyrrolizidine alkaloids  
Habitat: dry slopes, mesas, dry washes  
Animals affected: cattle, sheep, horses, goats

**\**Senecio riddellii* Torr. & Gray**

Common name: Riddell's groundsel  
Toxin: pyrrolizidine alkaloids  
Habitat: dry, sandy soils  
Animals affected: cattle, sheep, horses, goats

***Senecio spartioides* Torr. & Gray**

Common name: broom groundsel  
Toxin: pyrrolizidine alkaloids  
Habitat: valleys, plains, open areas, pine forests  
Animals affected: cattle, sheep, horses, goats

***Senecio vulgaris* L.**

Common name: common groundsel  
Toxin: pyrrolizidine alkaloids  
Habitat: gardens, disturbed ground  
Animals affected: cattle, sheep, horses, goats

***Sideranthus grindelioides* (Nutt.) Rydb.**

Common name: ironweed  
Toxin: selenium  
Habitat: dry plains, rocky hills  
Animals affected: sheep

***Tanacetum vulgare* L.**

Common name: common tansy  
Toxin: ethereal oil; causes abortions  
Habitat: roadsides, waste areas, ditchbanks, moist areas  
Animals affected: cattle

**\**Tetradymia canescens* DC.**

Common name: horsebrush  
Toxin: photosensitizing compounds  
Habitat: dry desert and sagebrush range  
Animals affected: sheep

**\**Tetradymia spinosa* Torr. & Gray**

Common name: spiny horsebrush  
Toxin: photosensitizing compounds  
Habitat: dry desert and sagebrush range  
Animals affected: sheep

***Viguiera annua* (Jones) Blake**

Common name: annual goldeneye  
Toxin: unknown  
Habitat: dry hills and mesas  
Animals affected: cattle

**\**Xanthium spinosum* L.**

Common name: spiny cocklebur  
Toxin: hydroquinone  
Habitat: waste places, fields  
Animals affected: cattle, sheep, fowl, swine

**\**Xanthium strumarium* L.**

Common name: cocklebur  
Toxin: hydroquinone

Habitat: fields and waste places  
Animals affected: cattle, sheep, horses, fowl, wines

### **Boraginaceae** \_\_\_\_\_

#### ***Amsinckia intermedia* Fisch & May**

Common name: fiddleneck  
Toxin: unknown  
Habitat: dry, open, cultivated ground and waste areas  
Animals affected: cattle, horses, swine

#### ***Cynoglossum officinale* L.**

Common name: hounds tongue  
Toxin: unknown  
Habitat: waste places in plains and hills  
Animals affected: cattle

### **Brassicaceae** \_\_\_\_\_

#### ***Barbarea vulgaris* R. Br.**

Common name: yellow rocket  
Toxin: mustard oil  
Habitat: wet meadows, waste places  
Animals affected: horses

#### ***Brassica hirta* Moench**

Common name: white mustard  
Toxin: cyanogenetic glycoside  
Habitat: cultivated fields, waste areas  
Animals affected: cattle, sheep

#### ***Brassica kaber* Wheeler**

Common name: charlock  
Toxin: cyanogenetic glycoside  
Habitat: grain fields, waste areas  
Animals affected: cattle, sheep, swine

#### ***Brassica nigra* Koch**

Common name: black mustard  
Toxin: goiterogenic glycoside  
Habitat: cultivated fields  
Animals affected: cattle

#### **\**Descurainia pinnata* (Walt.) Britt.**

Common name: tansy mustard  
Toxin: unknown  
Habitat: sandy soils  
Animals affected: cattle

#### ***Raphanus raphanistrum* L.**

Common name: wild radish  
Toxin: unknown  
Habitat: cultivated areas, waste places  
Animals affected: cattle

#### ***Stanleya pinnata* (Pursh) Britt.**

Common name: prince's plume  
Toxin: selenium  
Habitat: desert areas, dry plains and mesas

Animals affected: cattle, sheep

#### ***Thlaspi arvense* L.**

Common name: field pennycress  
Toxin: cyanogenetic glycoside  
Habitat: cultivated fields, waste areas  
Animals affected: cattle

### **Campanulacea** \_\_\_\_\_

#### ***Lobelia cardinalis* L.**

Common name: western cardinal flower  
Toxin: alkaloids  
Habitat: wet ground  
Animals affected: cattle, sheep, goats

### **Cannabinaceae** \_\_\_\_\_

#### ***Cannabis sativa* L.**

Common name: marijuana  
Toxin: tetrahydrocannabinol  
Habitat: waste places  
Animals affected: cattle, sheep, horses, humans

### **Capparidaceae** \_\_\_\_\_

#### ***Wislizenia refracta* Engelm.**

Common name: jackass clover  
Toxin: unknown  
Habitat: roadsides, fields  
Animals affected: cattle

### **Caprifoliaceae** \_\_\_\_\_

#### ***Sambucus mexicana* Presl.**

Common name: Mexican elder  
Toxin: unknown  
Habitat: valleys, streambanks, ornamental  
Animals affected: cattle, swine

#### ***Sambucus pubens* Michx.**

Common name: stinking elder  
Toxin: unknown  
Habitat: streambanks  
Animals affected: cattle, swine

#### ***Sambucus microbotrys* Rydb.**

Common name: Rocky Mountain red elder  
Toxin: unknown, concentrated in root  
Habitat: moist woods, 8,000–12,000 feet  
Animals affected: cattle, swine

### **Caryophyllaceae** \_\_\_\_\_

#### ***Agrostemma githago* L.**

Common name: corn cockle  
Toxin: cardiac glycoside  
Habitat: cultivated fields, waste places  
Animals affected: cattle, swine, poultry



**\**Drymaria pachyphylla* Woot. & Standl.**

Common name: inkweed, drymary

Toxin: unknown

Habitat: alkaline clay soils

Animals affected: cattle, sheep

***Saponaria officinalis* L.**

Common name: bouncing bet, soapwort

Toxin: saponin

Habitat: waste areas, roadsides

Animals affected: sheep, rabbits

***Saponaria vaccaria* L.**

Common name: cow cockle

Toxin: saponin

Habitat: waste areas, roadsides

Animals affected: sheep, rabbits

**Chenopodiaceae** \_\_\_\_\_

***Atriplex canescens* (Pursh) James**

Common name: four-wing saltbush

Toxin: selenium

Habitat: dry plains, canyons

Animals affected: cattle, sheep

***Atriplex nuttallii* Wats. subsp. *cuneata* (A. Nels.)**

Common name: Nuttall saltbush

Toxin: selenium

Habitat: dry hills and slopes

Animals affected: cattle, sheep

***Atriplex rosea* L.**

Common name: red orache, red shadscale

Toxin: selenium

Habitat: waste areas

Animals affected: cattle, sheep

***Bassia hyssopifolia* (Pall.) Kuntze**

Common name: bassia

Toxin: oxalates

Habitat: dry, saline areas

Animals affected: sheep

**\**Chenopodium album* L.**

Common name: lambsquarter, goosefoot

Toxin: nitrates

Habitat: waste places

Animals affected: cattle, sheep, horses

***Chenopodium ambrosioides* L.**

Common name: goosefoot

Toxin: antihelminthic oil

Habitat: waste places

Animals affected: geese

***Chenopodium glaucum* L.**

Common name: oakleaf goosefoot

Toxin: nitrates

Habitat: waste places

Animals affected: cattle, sheep

**\**Halogeton glomeratus* (Bieg.) C.A. Mey.**

Common name: halogeton, barilla

Toxin: oxalates

Habitat: dry saline plains and alkaline areas, roadsides

Animals affected: cattle, sheep

***Kochia scoparia* (L.) Schrad.**

Common name: summer cypress, kochia

Toxin: photosensitizing compounds

Habitat: dry soils, roadsides, waste places

Animals affected: cattle, sheep, horses

***Salsola iberica* Sennen Pau.**

Common name: Russian thistle, tumbleweed

Toxin: nitrates

Habitat: dry soils of plains and foothills

Animals affected: cattle, sheep, horses

**\**Sarcobatus vermiculatus* (Hook.) Torr.**

Common name: greasewood

Toxin: oxalates

Habitat: alkaline flats or saline areas at low elevations

Animals affected: sheep, sometimes cattle

***Suckleya suckleyana* (Torr.) Rydb.**

Common name: poison suckleya

Toxin: hydrocyanic acid

Habitat: moist ground, near ponds and reservoirs

Animals affected: cattle, sheep

**Cyperaceae** \_\_\_\_\_

***Scirpus americanus* Pers.**

Common name: bulrush

Toxin: unknown, suspected of producing pulmonary emphysema

Habitat: wet or moist ground

Animals affected: sheep, sometimes cattle

**Equisetaceae** \_\_\_\_\_

**\**Equisetum arvense* L.**

Common name: horsetail, scouring rush

Toxin: alkaloids

Habitat: sandy or gravelly soils along streams, moist fields, meadows

Animals affected: cattle, sheep, horses, goats

**\**Equisetum hiemale* L.**

Common name: scouring rush, horsetail

Toxin: alkaloids

Habitat: low moist areas, mostly along streams

Animals affected: cattle, sheep, horses, goats

**\**Equisetum laevigatum* R. Br.**

Common name: smooth horsetail

Toxin: thiaminase

Habitat: marshes, alluvial thickets, cultivated areas

Animals affected: cattle, sheep, horses, goats

**Euphorbiaceae**

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***Croton texensis* (Klotz.) DC.**

Common name: Texas croton

Toxin: croton oil (caustic)

Habitat: roadsides, fields, dry streambeds

Animals affected: cattle, sheep, horses

***Euphorbia albomarginata* Torr. & Gray**

Common name: spurge

Toxin: unknown photosensitizing substance

Habitat: dry flats and slopes

Animals affected: cattle, sheep

***Euphorbia esula* L.**

Common name: leafy spurge

Toxin: unknown acrid principle

Habitat: waste areas

Animals affected: sheep, horses

***Euphorbia maculata* L.**

Common name: eyebane, spotted spurge

Toxin: unknown photosensitizing substance

Habitat: fields, slopes, canyons

Animals affected: sheep

***Euphorbia marginata* Pursh**

Common name: snow-on-the-mountain

Toxin: unknown acrid principle

Habitat: plains, ornamental

Animals affected: cattle, humans

***Euphorbia prostrata* Alt.**

Common name: euphorbia

Toxin: unknown acrid principle

Habitat: open plains and waste areas

Animals affected: cattle

***Reverchonia arenaria* Gray**

Common name: reverchonia

Toxin: unknown

Habitat: dry, sandy ground

Animals affected: sheep

**Fabaceae**

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**\**Acacia constricta* Benth.**

Common name: whitehorn acacia

Toxin: cyanogenetic glycoside

Habitat: dry slopes and mesas

Animals affected: cattle

**\**Acacia gregii* Gray**

Common name: catclaw acacia

Toxin: cyanogenetic glycoside

Habitat: along streams and washes; southern New Mexico

Animals affected: sheep

***Astragalus albulus* Woot. & Standl.**

Common name: Cibola milkvetch

Toxin: selenium

Habitat: clay flats, low hills, sandstone soils

Animals affected: cattle, sheep, horses

***Astragalus allochrous* Gray var. *allochrous***

Common name: halfmoon locoweed

Toxin: swainsonine

Habitat: dry slopes, plains, and valleys

Animals affected: cattle, sheep, horses

**\**Astragalus allochrous* Gray var. *playanus***

**(M.E. Jones) Isely**

Common name: Wooton locoweed

Toxin: alkaloid (locoine)

Habitat: plains, slopes, valleys

Animals affected: cattle, sheep, horses

***Astragalus bisulcatus* (Hook.) Gray var. *bisulcatus***

Common name: two-grooved milkvetch

Toxin: selenium

Habitat: plains and bottomlands, sagebrush zones

Animals affected: cattle, sheep, horses

***Astragalus bisulcatus* var. *haydenianus* (Gray) Barneby**

Common name: two-grooved milkvetch

Toxin: selenium

Habitat: plains, dry slopes, sagebrush zone

Animals affected: cattle, sheep, horses

***Astragalus canadensis* L.**

Common name: Canada milkvetch

Toxin: swainsonine

Habitat: moist ground or sometimes rocky slopes

Animals affected: cattle, sheep, horses

***Astragalus confertiflorus* Gray**

Common name: yellow milkvetch

Toxin: selenium

Habitat: rocky slopes

Animals affected: cattle, sheep, horses

***Astragalus drummondii* Hook.**

Common name: Drummond milkvetch

Toxin: swainsonine

Habitat: plains and hillsides, brush places

Animals affected: cattle, sheep, horses

***Astragalus emoryanus* (Rydb.) Cory**

Common name: Emory milkvetch

Toxin: alkaloid, produces locoism when found on limestone soils or red sandy soils

Habitat: rocky hillsides, canyons, disturbed areas

Animals affected: cattle, sheep, goats

***Astragalus flavus* Torr. & Gray**

Common name: yellow milkvetch

Toxin: selenium

Habitat: rocky slopes, low hills

Animals affected: cattle, sheep, horses

**\**Astragalus lentiginosus* Hook var. *lentiginosus***

Common name: blue loco

Toxin: swainsonine

Habitat: rocky slopes, canyons, mesas

Animals affected: cattle, sheep, horses

**\**Astragalus lentiginosus* Hook. var. *diphysus* (Gray)**

**M.E. Jones**

Common name: blue loco, rattleweed

Toxin: swainsonine

Habitat: rocky slopes, canyons, mesas

Animals affected: cattle, sheep, horses

**\**Astragalus mollissimus* Torr. var. *mollissimus***

Common name: woolly locoweed

Toxin: swainsonine

Habitat: open plains and valleys

Animals affected: cattle, sheep, horses

**\**Astragalus mollissimus* var. *earlei* (Rydb.) Tidestrom**

Common name: woolly locoweed

Toxin: swainsonine

Habitat: dry slopes and plains

Animals affected: cattle, sheep, horses

**\**Astragalus nothoxys* Gray**

Common name: beaked milkvetch

Toxin: alkaloid swainsonine

Habitat: open slopes, sandy areas, among oak and juniper

Animals affected: cattle, sheep, horses

***Astragalus oocalycis* M.E. Jones**

Common name: locoweed

Toxin: selenium

Habitat: dry hills, plains, valleys

Animals affected: cattle, sheep, horses

***Astragalus pattersonii* Gray**

Common name: Patterson locoweed

Toxin: selenium

Habitat: dry plains and hillsides, in alkaline or seleniferous soils

Animals affected: cattle, sheep, horses

***Astragalus pectinatus* G. Don**

Common name: tine-leaved milkvetch

Toxin: selenium

Habitat:

Animals affected:

***Astragalus praelongus* Sheld. var. *praelongus***

Common name: stinking milkvetch

Toxin: selenium

Habitat: variety of habitats

Animal affected: cattle, sheep, horses

***Astragalus praelongus* var. *ellisire* (Rydb.) Barneby**

Common name: Ellis milkvetch

Toxin: selenium

Habitat: variety of habitats, widespread

Animals affected: cattle, sheep, horses

***Astragalus racemosus* Pursh var. *racemosus***

Common name: alkali milkvetch

Toxin: selenium

Habitat: barren slopes, alluvial areas, alkaline soils

Animals affected: cattle

***Astragalus racemosus* var. *longisetus* M.E. Jones**

Common name: alkali milkvetch

Toxin: selenium

Habitat: eroded slopes, along streams

Animals affected: cattle

***Astragalus tephrodes* Gray**

Common name: silverline locoweed

Toxin: swainsonine

Habitat: rocky slopes to sandy plains

**\**Astragalus thurberi* Gray**

Common name: Thurber milkvetch

Toxin: alkaloid (locoine)

Habitat: plains, valleys, open slopes

Animals affected: cattle, sheep, horses

***Cassia fasciculata* Michx. var. *fasciculata***

Common name: partridge-pea

Toxin: unknown

Habitat: dry fields and hillsides

Animals affected: cattle, sheep, horses

***Cassia fasciculata* var. *rostrata* (Woot. & Standl.)**

**B.L. Turner**

Common name: partidge-pea

Toxin: unknown

Habitat: restricted to the plains of east-central

New Mexico

Animals affected: cattle, sheep, horses

***Crotalaria sagittalis* L.**

Common name: rattlebox, crotalaria

Toxin: unknown

Habitat: sandy soil near streams

Animals affected: horses

***Lathyrus polymorphus subsp. incanus* (J.G. Sm. & Rydb.) C.L. Hitchc.**

Common name: wild pea  
Toxin: alpha-, gamma-diaminobutyric acid  
Habitat: dry plains, sandy banks, washes  
Animals affected: horses

***Lotus comiculatus* L.**

Common name: birdsfoot trefoil  
Toxin: cyanogenetic glycoside  
Habitat: sandy roadsides  
Animals affected: cattle, sheep, horses

**\**Lupinus alpestris* A. Nels.**

Common name: lupine, bluebonnet  
Toxin: alkaloids  
Habitat: mountains  
Animals affected: cattle, sheep

**\**Lupinus argenteus* Pursh var. *argenteus***

Common name: silvery lupine  
Toxin: alkaloids  
Habitat: meadows, open woods  
Animals affected: cattle, sheep, deer

**\**Lupinus argenteus* var. *stenophyllus* (Torr. & Gray) Davis**

Common name: silvery lupine  
Toxin: alkaloids  
Habitat: meadows, open woods  
Animals affected: cattle, sheep, deer

**\**Lupinus caudatus* Kell.**

Common name: Kellogg's spurred lupine, tailcut lupine  
Toxin: alkaloids  
Habitat: exposed hillsides  
Animals affected: cattle

***Medicago hispida* Gaertn.**

Common name: burclover  
Toxin: photosensitization compounds  
Habitat: waste areas  
Animals affected: cattle, sheep, swine

***Medicago sativa* L.**

Common name: alfalfa, lucerne  
Toxin: saponin, photosensitization compounds  
Habitat: cultivated and escaping  
Animals affected: cattle, sheep, chicks, wines

***Melilotus albus* Desv.**

Common name: white sweetclover  
Toxin: dicoumarin  
Habitat: waste areas, fields  
Animals affected: cattle

***Melilotus officinalis* Lam.**

Common name: yellow sweetclover

Toxin: dicoumarin  
Habitat: waste areas, fields  
Animals affected: cattle, sheep, horses

**\**Oxytropis lambertii* Pursh**

Common name: Lambert's crazyweed  
Toxin: unknown alkaloid, produces locoism  
Habitat: plains, mountain slopes  
Animals affected: cattle, sheep, horses

**\**Oxytropis sericea* Torr. & Gray**

Common name: white loco, silky crazyweed  
Toxin: alkaloids, produces locoism  
Habitat: open slopes, widespread  
Animals affected: cattle, sheep, horses

***Pisum sativum* L.**

Common name: garden pea  
Toxin: unknown  
Habitat: gardens  
Animals affected: cattle, sheep

***Poinciana gilliesii* Hook**

Common name: bird of paradise  
Toxin: unknown, green seed pods are gastrointestinal irritants  
Habitat: around dwelling sites, waste areas  
Animals affected: cattle

***Prosopis glandulosa* Torr.**

Common name: mesquite  
Toxin: unknown, may cause a nutritional deficiency  
Habitat: plains, prairies, river valleys  
Animals affected: cattle

***Psoralea argophylla* Pursh**

Common name: scurf pea  
Toxin: unknown  
Habitat: plains and hills  
Animals affected: cattle, sheep

***Psoralea tenuiflora* Pursh**

Common name: scurf pea, Indian turnip  
Toxin: unknown  
Habitat: dry plains, low hills  
Animals affected: cattle, horses

***Robinia pseudoacacia* L.**

Common name: black locust  
Toxin: unknown  
Habitat: along roadsides, escaped from cultivation  
Animals affected: cattle, sheep, horses, poultry

***Sophora secundiflora* (Ort.) Lag.**

Common name: mescal bean, frijolito  
Toxin: alkaloids  
Habitat: along limestone bluffs, gravelly outwashes  
Animals affected: cattle, sheep, goats

***Sophora sericia* Nutt.**

Common name: silky sophora  
Toxin: alkaloids  
Habitat: dry fields and plains  
Animals affected: horses

***Thermopsis montana* Nutt.**

Common name: mountain golden pea  
Toxin: alkaloids  
Habitat: mountain valleys and clearings  
Animals affected: cattle

***Thermopsis rhombifolia* Rich.**

Common name: prairie thermopsis  
Toxin: alkaloids  
Habitat: dry, sandy soils of hills and plains  
Animals affected: cattle, horses

***Trifolium hybridum* L.**

Common name: alsike clover  
Toxin: photosensitizing compound  
Habitat: meadows, waste areas  
Animals affected: cattle, sheep, horses, swine

***Trifolium pratense* L.**

Common name: red clover  
Toxin: unknown  
Habitat: fields and waste areas  
Animals affected: cattle, sheep, horses

***Trifolium repens* L.**

Common name: white clover  
Toxin: cyanogenetic glycoside  
Habitat: fields and waste areas  
Animals affected: newborn pigs

***Vicia villosa* Roth**

Common name: hairy vetch, wintervetch  
Toxin: photosensitizing compound  
Habitat: cultivated areas  
Animals affected: cattle, horses

**Fagaceae** \_\_\_\_\_

**\**Quercus gambelii* Nutt.**

Common name: Gambel oak  
Toxin: tannins  
Habitat: canyons and mountain slopes  
Animals affected: cattle, sheep, goats

**\**Quercus havardii* Rydb.**

Common name: Havard shinoak, shinnery  
Toxin: tannins  
Habitat: sandy plains  
Animals affected: cattle, sheep

**Fumariaceae** \_\_\_\_\_

**\**Corydalis aurea* Willd.**

Common name: golden corydalis  
Toxin: alkaloids  
Habitat: damp slopes and plains  
Animals affected: cattle, sheep

**Gentianaceae** \_\_\_\_\_

***Centaurium calycosum* Fern.**

Common name: mountain pink  
Toxin: unknown  
Habitat: boggy or marshy places  
Animals affected: sheep, goats

**Hypericaceae** \_\_\_\_\_

***Hypericum formosum* H.B.K.**

Common name: southwestern St. Johnswort  
Toxin: photosensitizing compounds  
Habitat: moist soil in damp meadows  
Animals affected: cattle, sheep, horses, goats

**Iridaceae** \_\_\_\_\_

***Iris missouriensis* Nutt.**

Common name: Rocky Mountain iris  
Toxin: unknown  
Habitat: open meadows in the higher mountains  
Animals affected: calves

**Juncaginaceae** \_\_\_\_\_

**\**Triglochin maritima* L.**

Common name: arrowgrass  
Toxin: hydroqanic acid  
Habitat: marshy ground  
Animals affected: cattle, sheep

**\**Triglochin palustris* L.**

Common name: arrowgrass  
Toxin: hydroqanic acid  
Habitat: marshy ground  
Animals affected: cattle, sheep

**Lamiaceae** \_\_\_\_\_

***Lamium amplexicaule* L.**

Common name: henbit, dead nettle  
Toxin: unknown  
Habitat: waste areas  
Animals affected: cattle, sheep, horses

***Salvia reflexa* Hornem.**

Common name: annual sage, mintweed  
Toxin: nitrates  
Habitat: rocky slopes, open woods  
Animals affected: cattle



## **Liliaceae**

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### ***Asparagus officinalis* L.**

Common name: asparagus

Toxin: unknown compound in fruits

Habitat: valleys, roadsides, loose or sandy soils

Animals affected: cattle and dairy cattle

### **\**Veratrum californicum* Durarid**

Common name: false hellebore, cornlily

Toxin: alkaloids

Habitat: moist meadows in the mountains

Animals affected: cattle, sheep, fowl

### **\**Zigadenus venenosus* Pursh**

Common name: death camas

Toxin: alkaloids

Habitat: wooded slopes in the mountains

Animals affected: cattle, horses, swine, fowl

### **\**Zigadenus gramineus* Rydb.**

Common name: death camas

Toxin: alkaloids

Habitat: wooded slopes and open ground

Animals affected: cattle, sheep, horses

### **\**Zigadenus paniculatus* (Nutt.) Wats**

Common name: death camas

Toxin: alkaloids

Habitat: open grassy or rocky plains and hills

Animals affected: cattle, horses, swine

## **Linaceae**

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### ***Linum neomexicanum* Greene**

Common name: New Mexico yellow flax

Toxin: saponin, glycoside

Habitat: wooded mountain slopes

Animals affected: cattle

### ***Linum usitatissimum* L.**

Common name: flax

Toxin: cyanogenetic glycoside

Habitat: waste areas around cultivated areas

Animals affected: cattle

## **Loranthaceae**

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### ***Phoradendron flavescens* (Pursh) Nutt. var. *flavescens***

Common name: mistletoe

Toxin: pressor amines, phenylethylamine, tyramine

Habitat: parasitic on cottonwood and other deciduous trees

Animals affected: cattle

### ***Phoradendron flavescens* var. *macrophyllum* Engelm.**

Common name: mistletoe

Toxin: pressor amines, phenylethylamine, tyramine

Habitat: parasitic on cottonwood and other deciduous trees

Animals affected: cattle

### ***Phoradendron flavescens* var. *orbiculatum* Engelm.**

Common name: mistletoe

Toxin: pressor amines, phenylethylamine, tyramine

Habitat: parasitic on oak

Animals affected: cattle

### ***Phoradendron flovescens* var. *villosum* (Nutt.) Engelm.**

Common name: mistletoe

Toxin: pressor amines, phenylethylamine, tyramine

Habitat: parasitic on deciduous trees

Animals affected: cattle

## **Malvaceae**

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### ***Gossypium barbadense* L.**

Common name: sea-island cotton

Toxin: gossypol in seeds

Habitat: cultivated

Animals affected: cattle, sheep, horses

### ***Malva parviflora* L.**

Common name: mallow, cheeseweed

Toxin: fatty acids (malvalic and sterculic)

Habitat: waste areas

Animals affected: cattle, sheep, horses

## **Meliaceae**

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### ***Melia azedarach* L.**

Common name: chinaberry tree

Toxin: resins, especially in fruits

Habitat: waste areas, ornamental

Animals affected: cattle, sheep, horses

## **Moraceae**

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### ***Maclura pomifera* Schneid**

Common name: Osage-orange

Toxins: unknown compounds in fruit

Habitat: waste areas and arroyos

Animals affected: cattle, sheep, horses

## **Oxalidaceae**

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### ***Oxalis corniculata* L.**

Common name: creeping woodsorrel

Toxin: oxalates

Habitat: moist waste areas, often in lawns

Animals affected: sheep

## **Papaveraceae**

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### ***Argemone mexicana* L.**

Common name: Mexican poppy

Toxin: alkaloids

Habitat: waste areas

Animals affected: cattle, sheep, horses, fowl



***Argemone polyanthemus* (Fedde) G. Ownbey**

Common name: prickly poppy

Toxin: alkaloids

Habitat: dry plains, waste areas

Animals affected: cattle, sheep, horses, fowl

***Papaver nudicaule* L. var. *radicatum* (Rottb.) DC.**

Common name: Iceland poppy

Toxin: alkaloids

Habitat: open slopes and summits

Animals affected: cattle, sheep, horses

***Papaver somniferum* L.**

Common name: common poppy

Toxin: alkaloids

Habitat: ornamental

Animals affected: cattle, sheep, horses

**Pinaceae** \_\_\_\_\_

***Pinus ponderosa* Laws.**

Common name: Western yellow pine, ponderosa pine

Toxin: unknown compounds in leaves

Habitat: mountain areas

Animals affected: cattle

**Poaceae** \_\_\_\_\_

***Agropyron* spp.**

Common name: wheatgrass

Toxin: ergot infestation of seedheads

Habitat: rangeland and pastures

Animals affected: cattle, sheep, horses, humans

***Aristida* spp.**

Common name: red three-awn

Toxin: awns are mechanically injurious

Habitat: plains and rocky slopes

Animals affected: cattle, sheep, horses

***Avena fatua* L.**

Common name: wild oats

Toxin: nitrates

Habitat: cultivated land and waste areas

Animals affected: cattle, sheep, horses

***Avena sativa* L.**

Common name: cultivated oats

Toxin: nitrates, photosensitizing compounds, grass tetany

Habitat: open ground, grasslands, waste areas

Animals affected: cattle, sheep, horses

***Bouteloua* spp.**

Common name: grama grasses

Toxin: low levels of cyanide

Habitat: plains

Animals affected: cattle

***Bromus diandrus* Roth**

Common name: riggut brome

Toxin: mechanical injury from mature awns

Habitat: weedy ground

Animals affected: cattle, sheep

***Bromus inermis* Leyss.**

Common name: smooth brome

Toxin: ergot infestation of seed heads

Habitat: mountain slopes and meadows

Animals affected: cattle, sheep, horses

***Bromus rubens* L.**

Common name: foxtail chess, red brome

Toxin: mechanical injury from mature awns

Habitat: dry hills and waste areas

Animals affected: cattle, sheep

***Bromus tectorum* L.**

Common name: cheatgrass, down cheat

Toxin: mechanical injury from mature awns; may also cause ergot poisoning

Habitat: roadsides and waste areas

Animals affected: cattle

***Cynodon dactylon* L. Pers.**

Common name: Bermudagrass

Toxin: photosensitizing compound, hayfever

Habitat: waste areas; widespread

Animals affected: cattle

***Elymus* spp.**

Common name: wildrye

Toxin: ergot infestation

Habitat: mountain slopes, plains

Animals affected: cattle

***Eragrostis cilianensis* (All.) Lin.**

Common name: lovegrass, stinkgrass

Toxin: unknown

Habitat: cultivated or waste areas

Animals affected: horses

***Festuca arundinacea* Schreber**

Common name: tall fescue

Toxin: alkaloids, fescue foot

Habitat: pastures

Animals affected: cattle

***Glyceria striata* (Lam.) Hitchc.**

Common name: fowl mannagrass

Toxin: cyanogenetic compounds

Habitat: plains and foothills

Animals affected: cattle, sheep, horses

***Hilaria jamesii* (Torr.) Benth.**

Common name: galleta

Toxin: ergot infestation of sheedheads

Habitat: plains and foothills  
Animals affected: cattle, sheep, horses  
*Hilaria mutica* (Buckl.) Benth.

Common name: tobosa  
Toxin: ergot infestation of seedheads  
Habitat: plains and foothills  
Animals affected: cattle, sheep, horses

***Hordeum jubatum* L.**

Common name: foxtail barley  
Toxin: mechanical injury from mature awns  
Habitat: plains and open slopes  
Animals affected: cattle, sheep, horses

***Hordeum vulgare* L.**

Common name: barley  
Toxin: mechanical injury from mature awns  
Habitat: waste areas  
Animals affected: cattle, swine, dogs, poultry

***Lolium perenne* L.**

Common name: perennial ryegrass  
Toxin: ergot infestation of seed heads  
Habitat: meadows, waste areas  
Animals affected: cattle

***Panicum antidotale* Retz.**

Common name: blue panicum  
Toxin: nitrates  
Habitat: rangelands  
Animals affected: cattle

***Panicum capillare* L.**

Common name: witchgrass  
Toxin: nitrates  
Habitat: roadsides, waste places  
Animals affected: cattle

***Panicum coloratum* L.**

Common name: Kleinegrass  
Toxin: photosensitivity  
Habitat: pastures  
Animals affected: sheep

***Paspalum dilatatum* Poir.**

Common name: dallisgrass  
Toxin: ergot infestation of seed heads  
Habitat: irrigated pastures, moist disturbed areas  
Animals affected: cattle, sheep, horses

***Poa pratensis* L.**

Common name: Kentucky bluegrass  
Toxin: ergot infestation of seed heads  
Habitat: lawns, pastures, meadows  
Animals affected: cattle, sheep, horses

***Secale cereale* L.**

Common name: rye  
Toxin: ergot infestation of seed heads

Habitat: cultivated  
Animals affected: cattle, sheep, horses, humans

***Setaria lutescens* (Wiegel) Hubb.**

Common name: yellow bristlegrass  
Toxin: mechanically injurious (rare)  
Habitat: waste areas  
Animals affected: cattle

***Sorghum bicolor* (L.) Moench**

Common name: common sorghum, milo  
Toxin: cyanide  
Habitat: waste areas, cultivated  
Animals affected: cattle, sheep, horses

**\**Sorghum halepense* (L.) Pers.**

Common name: Johnsongrass  
Toxin: cyanide  
Habitat: waste areas, cultivated fields  
Animals affected: cattle, sheep, horses

***Stipa comata* Trin. Rupr.**

Common name: needle-and-thread  
Toxin: mechanical injury from mature awns  
Habitat: open slopes  
Animals affected: cattle, sheep, horses

***Stipa neomexicana* (Thurb.) Scribn.**

Common name: New Mexico feathergrass  
Toxin: mechanical injury from mature awns  
Habitat: dry hills  
Animals affected: cattle, sheep, horses

***Stipa robusta* (Vasey) Scribn.**

Common name: sleepygrass  
Toxin: unknown narcotic  
Habitat: open slopes, northern to south-central New Mexico  
Animals affected: horses

***Zea mays* L.**

Common name: common maize  
Toxin: nitrates  
Habitat: cultivated  
Animals affected: cattle

**Polygalaceae** \_\_\_\_\_

***Polygala sanguinea* (L.) Farwell**

Common name: milkwort, snakeroot  
Toxin: irritant drug  
Habitat: plains  
Animals affected: horses

**Polygonaceae** \_\_\_\_\_

***Beta vulgaris* L.**

Common name: beet, sugar beet  
Toxin: oxalates, nitrates  
Habitat: cultivated  
Animals affected: cattle

***Fagopyrum sagittatum* Gilib.**

Common name: buckwheat  
Toxin: primary photosensitizer  
Habitat: waste areas, roadsides  
Animals affected: cattle, sheep, horses, goats, swine, fowl

***Rheum rhaponticum* L.**

Common name: rhubarb  
Toxin: oxalic acid in the leaf blades  
Habitat: cultivated  
Animals affected: cattle, sheep

***Rumex acetosella* L.**

Common name: sheep sorrel, dock  
Toxin: oxalates in the leaf blades  
Habitat: disturbed places  
Animals affected: sheep

***Rumex crispus* L.**

Common name: curlyleaf dock  
Toxin: oxalates  
Habitat: cultivated fields, waste areas  
Animals affected: sheep

**Polypodiaceae** \_\_\_\_\_

**\**Pteridium aquilinum* (L.) Kuhn.**

Common name: bracken fern  
Toxin: thiaminase  
Habitat: open woods and clearings in the mountains  
Animals affected: cattle, sheep, horses

**Portulacaceae** \_\_\_\_\_

***Portulaca oleracea* L.**

Common name: common purslane  
Toxin: oxalates  
Habitat: waste areas, cultivated areas  
Animals affected: sheep

**Primulaceae** \_\_\_\_\_

***Anagallis arvensis* L.**

Common name: pimpernel  
Toxin: unknown  
Habitat: waste areas  
Animals affected: sheep

**Ranunculaceae** \_\_\_\_\_

**\**Aconitum columbianum* Nutt.**

Common name: monkshood  
Toxin: alkaloids  
Habitat: moist ground, often along streams  
Animals affected: cattle, sheep, horses  
*Actea arguta* Nutt.  
Common name: baneberry  
Toxin: irritant oil

Habitat: woods  
Animals affected: cattle, sheep, horses, humans

***Anemone patens* L.**

Common name: pasque flower  
Toxin: glycoside  
Habitat: open meadows  
Animals affected: sheep

***Caltha leptosepala* DC.**

Common name: elkslip, march marigold  
Toxin: glycoside  
Habitat: wet meadows, boggy ground  
Animals affected: cattle, sheep

**\**Delphinium barbeyi* Huth.**

Common name: Barbey larkspur, tall larkspur  
Toxin: alkaloids  
Habitat: open meadows  
Animals affected: cattle, occasionally sheep

**\**Delphinium nelsonii* Greene**

Common name: Nelson larkspur  
Toxin: alkaloids  
Habitat: dry plains  
Animals affected: cattle, sheep, horses

**\**Delphinium occidentale* Wats.**

Common name: larkspur  
Toxin: alkaloids  
Habitat: dry slopes in oak scrub  
Animals affected: cattle, sheep, horses

**\**Delphinium robustum* Rydb.**

Common name: larkspur  
Toxin: alkaloids  
Habitat: mountain meadows  
Animals affected: cattle, sheep, horses

**\**Delphinium vireseens* Nutt.**

Common name: larkspur  
Toxin: alkaloids  
Habitat: dry plains and hills  
Animals affected: cattle, sheep, horses

***Ranunculus aeris* L.**

Common name: tall buttercup  
Toxin: glycoside  
Habitat: open areas  
Animals affected: cattle, sheep, horses

***Ranunculus cymbalaria* Pursh**

Common name: alkali buttercup, trailing buttercup  
Toxin: glycoside  
Habitat: wet ground  
Animals affected: cattle, sheep, horses

***Ranunculus scleratus* L.**

Common name: crowfoot, buttercup

Toxin: glycoside  
Habitat: marshy ground  
Animals affected: cattle, sheep, horses

## **Rosaceae** \_\_\_\_\_

### **\**Cercocarpus montanus* Raf.**

Common name: mountain mahogany  
Toxin: cyanogenetic glycosides  
Habitat: dry hillsides  
Animals affected: cattle

### ***Malus sylvestris* Mill.**

Common name: apple  
Toxin: cyanide in leaves  
Habitat: cultivated  
Animals affected: cattle, horses, mules

### ***Prunus armeniaca* L.**

Common name: apricot  
Toxin: cyanogenetic glycoside, especially in seeds (pits)  
Habitat: cultivated  
Animals affected: cattle, sheep, horses

### ***Prunus persica* Batsch**

Common name: peach  
Toxin: cyanogenetic glycoside, especially in seeds (pits)  
Habitat: cultivated  
Animals affected: cattle, sheep, horses

### **\**Prunus serotina* Ehrh.**

Common name: southwestern chokecherry  
Toxin: cyanogenetic glycoside  
Habitat: along streams  
Animals affected: cattle, sheep, horses

### **\**Prunus virginiana* L.**

Common name: chokecherry  
Toxin: cyanogenetic glycoside  
Habitat: moist canyons and slopes  
Animals affected: cattle, sheep

## **Santalaceae** \_\_\_\_\_

### ***Comandra umbellata* (L.) Nutt.**

Common name: bastard toadflax  
Toxin: alkaloids, glycosides, selenium  
Habitat: plains and forested slopes; parasitic on other plants  
Animals affected: cattle, sheep, horses

## **Scrophulariaceae** \_\_\_\_\_

### ***Castilleja* spp.**

Common name: paintbrushes  
Toxin: selenium  
Habitat: foothills and plains

Animals affected: cattle

## **Sinopteridaceae** \_\_\_\_\_

### ***Dryopteris filix-mas* (L.) Schott**

Common name: malefern  
Toxin: thiaminase  
Habitat: damp, rocky places, often along streams  
Animals affected: horses

### **\**Notholaena sinuata* (Lag.) Kaulf. var. *cochisenis* (Goodding) Weath.**

Common name: Jimmy fern, cloak fern  
Toxin: unknown, passed through the milk  
Habitat: dry, rocky areas, along canyon walls  
Animals affected: sheep

## **Solanaceae** \_\_\_\_\_

### **\**Datura stramonium* L.**

Common name: Jimsonweed  
Toxin: alkaloids  
Habitat: waste or cultivated ground  
Animals affected: cattle, sheep, horses, swine, mules, chickens, humans

### **\**Datura wrightii* Regel.**

Common name: datura, thornapple  
Toxin: alkaloids  
Habitat: mesas and waste grounds  
Animals affected: cattle, sheep, horses, swine, mules, chickens, humans

### ***Hyoscyamus niger* L.**

Common name: henbane  
Toxin: alkaloids  
Habitat: moist roadsides  
Animals affected: cattle, sheep, fowl

### ***Lycium halimifolium* Mill.**

Common name: matrimony vine  
Toxin: unknown  
Habitat: dry hills and plains  
Animals affected: calves, sheep

### ***Lycopersicon esculentum* Mill.**

Common name: tomato  
Toxin: alkaloids in leaves and vines  
Habitat: cultivated  
Animals affected: cattle, swine

### ***Nicotiana attenuata* S. Wats.**

Common name: coyote tobacco  
Toxin: nicotine  
Habitat: sandy ground near streams and washes  
Animals affected: cattle, sheep, horses, swine

### ***Nicotiana glauca* Graham**

Common name: tree tobacco

Toxin: nicotine  
Habitat: along desert streams and washes  
Animals affected: cattle, sheep, horses

***Nicotiana trigonophylla* Dunal**

Common name: desert tobacco  
Toxin: nicotine  
Habitat: desert canyons, washes  
Animals affected: cattle, sheep, horses

***Physalis virginiana* Mill. var. *sonora* (Torr.) Waterfall**

Common name: groundcherry  
Toxin: unknown  
Habitat: moist ground, widespread  
Animals affected: sheep

**\**Solanum elaeagnifolium* Cav.**

Common name: silverleaf nightshade, horsenettle  
Toxin: glycoalkaloids  
Habitat: shaded slopes or waste areas  
Animals affected: cattle, sheep

***Solanum nigrum* L.**

Common name: black nightshade  
Toxin: glycoalkaloids  
Habitat: shaded slopes or waste areas  
Animals affected: cattle, sheep, horses

***Solanum rostratum* Dunal.**

Common name: buffalobur  
Toxin: glycoalkaloids  
Habitat: plains and waste areas  
Animals affected: cattle, swine

***Solanum triflorum* Nutt.**

Common name: cutleaf nightshade  
Toxin: glycoalkaloids  
Habitat: plains, roadsides, streambeds  
Animals affected: cattle, horses

***Solanum sarachoides* Sendt.**

Common name: hairy nightshade  
Toxin: glycoalkaloids  
Habitat: waste areas  
Animals affected: cattle, sheep, horses

**Typhaceae**

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***Typha latifolia* L.**

Common name: cattail  
Toxin: hayfever  
Habitat: marshes, ponds  
Animals affected: horses

***Urtica gracilis* Ait.**

Common name: stinging nettle  
Toxin: stinging hairs cause dermatitis, nitrates  
Habitat: rich damp soil in thickets in mountains  
Animals affected: horses

**Verbenaceae**

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***Aloysia wrightii* (Gray) Heller**

Common name: whitebrush  
Toxin: unknown  
Habitat: dry, rocky slopes, often on limestone soils  
Animals affected: horses

**Zygophyllaceae**

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***Kallstroemia hirsutissima* Vail**

Common name: hairy caltrop  
Toxin: unknown  
Habitat: dry plains, widespread  
Animals affected: cattle, sheep, goats

***Peganum harmala* L.**

Common name: African rue  
Toxin: alkaloids  
Habitat: southern dry plains  
Animals affected: cattle

**\**Tribulus terrestris* L.**

Common name: puncturevine, goathead  
Toxin: nitrates, photosensitizing compound, saponins  
Habitat: disturbed areas  
Animals affected: sheep

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Perennial ryegrass	16	Red three-awn	15
Perennial snakeweed	16	Reverchonia	10
<i>Phoradendron flavescens</i>	14	<i>Reverchonia arenaria</i>	10
<i>Physalis virginiana</i> var. <i>sonora</i>	19	<i>Rheum rhaponticum</i>	17
Pigweed	4	Rhubarb	17
Pimpernel	17	Riddell's groundsel	7
Pingue	6	Ripgut brome	15
<i>Pinus ponderosa</i>	15	<i>Robinia pseudoacacia</i>	12
<i>Pisum sativum</i>	12	Rocky Mountain iris	13
Plains bahia	6	Rocky Mountain red elder	8
Plains whorled milkweed	5	Rough milkweed	4
<i>Poa pratensis</i>	16	Rubber rabbitbrush	6
Poison hemlock	4	Rubberweed	6
Poison ivy	4	<i>Rudbeckia hirta</i>	7
Poison suckleya	9	<i>Rudbeckia laciniata</i>	7
<i>Polygala sanguinea</i>	16	<i>Rumex acetosella</i>	19
Ponderosa pine	15	<i>Rumex crispus</i>	19
<i>Portulaca oleracea</i>	17	Russian knapweed	6
Prairie thermopsis	13	Russian thistle	9
Prickly poppy	15	Rye	16
Prince's plume	8		
<i>Prosopis glandulosa</i>	12	<b>S</b>	
<i>Prunus armeniaca</i>	18	Sacahuista	4
<i>Prunus persica</i>	18	<i>Salsola tragus</i>	9
<i>Prunus serotina</i>	18	<i>Salvia reflexa</i>	13
<i>Prunus virginiana</i>	18	<i>Sambucus mexicana</i>	8
<i>Psathyrotes annua</i>	7	<i>Sambucus microbotrys</i>	8
<i>Psilostrophe sparsiflora</i>	7	<i>Sambucus pubens</i>	8
<i>Psilostrophe tagetinae</i>	7	Sand sagebrush	5
<i>Psoralea argophylla</i>	12	<i>Saponaria officinalis</i>	9
<i>Psoralea tenuiflora</i>	12	<i>Saponaria vaccaria</i>	9
<i>Pteridium aquilinum</i>	17	<i>Sarcobatus vermiculatus</i>	9
Puncturevine	19	Sartwellia	7
		<i>Sartwellia flaveriae</i>	7
<b>Q</b>		<i>Scirpus americanus</i>	9
Queen Ann's lace	4	Scouring rush	9
<i>Quercus gambelii</i>	13	Scurf pea	12
<i>Quercus havardii</i>	13	Sea-island cotton	14
		<i>Secale cereale</i>	16
<b>R</b>		<i>Senecio flaccidus</i>	7
<i>Ranunculus aeries</i>	17	<i>Senecio riddellii</i>	7
<i>Ranunculus cymbalaria</i>	17	<i>Senecio spartioides</i>	7
<i>Ranunculus sceleratus</i>	17	<i>Senecio vulgaris</i>	7
<i>Raphanus raphanistrum</i>	8	<i>Setaria lutescens</i>	16

Sheep sorrel	17	<i>Tanacetum vulgare</i>	7
Shinnery	13	Tansy mustard	8
Showy milkweed	5	Tarbush	6
<i>Sideranthus grindelioides</i>	7	<i>Tetradymia canescens</i>	7
Silky crazyweed	12	<i>Tetradymia spinosa</i>	7
Silky sophora	13	Texas croton	10
Silverleaf nightshade	19	<i>Thermopsis montana</i>	13
Silverline locoweed	11	<i>Thermopsis rhombifolia</i>	13
Silvery lupine	12	Thimble weed	7
<i>Sium suave</i>	4	<i>Thlaspi arvense</i>	8
Sleepygrass	16	Thornapple	18
Smooth aster	5	Threadleaf groundsel	7
Smooth brome	15	Thurber milkvetch	11
Smooth horsetail	10	Tine-leaved milkvetch	11
Snakeroot	16	Tobosa	16
Snakeweed	6	Tomato	18
Sneezeweed	6	<i>Toxicodendron radicans</i>	4
Snow-on-the-mountain	10	Trailing buttercup	17
Soapwort	9	Tree tobacco	18
<i>Solanum elaeagnifolium</i>	19	<i>Tribulus terrestris</i>	19
<i>Solanum nigrum</i>	19	<i>Trifolium hybridum</i>	13
<i>Solanum rostratum</i>	19	<i>Trifolium pratense</i>	13
<i>Solanum sarachoides</i>	19	<i>Trifolium repens</i>	13
<i>Solanum triflorum</i>	19	<i>Triglochin maritima</i>	13
<i>Sophora secundiflora</i>	12	<i>Triglochin palustris</i>	13
<i>Sophora sericea</i>	13	Tumbleweed	9
<i>Sorghum bicolor</i>	16	Turpentine weed	6
<i>Sorghum halepense</i>	16	Two-grooved milkvetch	10
Southwestern chokecherry	18	<i>Typha latifolia</i>	19
Southwestern St. John's wort	13		
Spider antelopehorn	4	<b>U</b>	
Spiny cocklebur	7	<hr/>	
Spiny horsebrush	7	<i>Urtica gracilis</i>	19
Spotted spurge	10		
Spreading dogbane	4	<b>V</b>	
Spurge	11	<hr/>	
<i>Stanleya pinnata</i>	8	<i>Veratrum californicum</i>	14
Stinging nettle	19	<i>Vicia villosa</i>	13
Stinkgrass	15	<i>Viguiera annua</i>	7
Stinking milkvetch	11		
<i>Stipa comata</i>	16	<b>W</b>	
<i>Stipa neomexicana</i>	16	<hr/>	
<i>Stipa robusta</i>	16	Water hemlock	4
<i>Suckleya suckleyana</i>	9	Water parsnip	4
Sugar beet	16	Western aster	5
Summer cypress	9	Western cardinal flower	8
Swamp milkweed	5	Western whorled milkweed	5
		Western yellow pine	15
<b>T</b>		Wheatgrass	15
<hr/>		Whitebrush	19
Tailcut lupine	12	White clover	13
Tall fescue	15	Whitehorn acacia	10
Tall larkspur	17	White loco	12
		White mustard	8
		White sweetclover	12

Whorled milkweed	5
Wild carrot	4
Wild lettuce	7
Wild oats	15
Wild pea	12
Wild radish	8
Wildrye	15
Wintervetch	13
<i>Wislizenia refracta</i>	8
Witchgrass	16
Woolly locoweed	11
Wooton locoweed	10

**X**

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<i>Xanthium spinosum</i>	7
<i>Xanthium strumarium</i>	7

**Y**

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Yarrow	5
Yellow bristlegrass	16
Yellow milkvetch	10, 11
Yellow rocket	8
Yellow starthistle	6
Yellow sweetclover	12
Yerba-de-pasmo	5

**Z**

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<i>Zea mays</i>	16
<i>Zigadenus gramineus</i>	14
<i>Zigadenus paniculatus</i>	14
<i>Zigadenus venenosus</i>	14





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