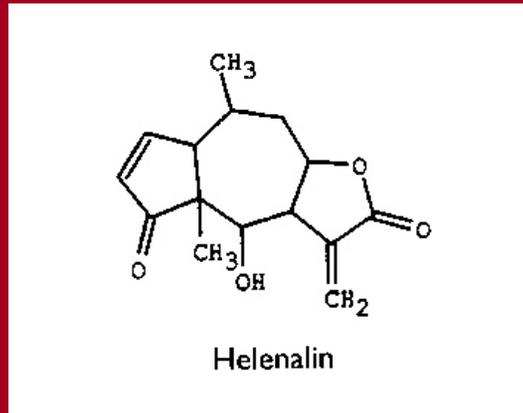


Plants containing Sesquiterpene lactones



Spewing Sickness - Irritate GI tract – Chronic poisoning

Clinical Signs

Diarrhea

Vomiting

Frothing at mouth

Pneumonia from regurgitation

Kidney and liver damage

Dullness

Weakness

Trembling

Stiff lambs

Bitterweed

Hymenoxys odorata

Southwest



Orange sneezeweed

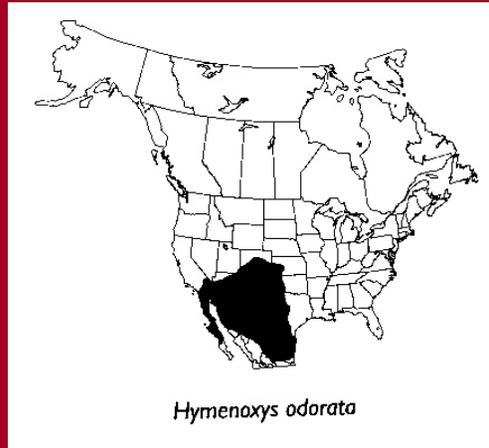
Dagalda (Helenium) hoopesii

Mountain meadows



Bitterweed

Hymenoxys odorata



Largest poisonous plant problem to sheep industry in W. Texas and E. New Mexico

Ecology

Winter annual

Clay soil, flood plain, dry lake bed

Short-grass prairie, Desert grassland

Increaser spp. invade disturbed areas

Overgrazing open niche

Cyclic pop. – increase in wet years

Conditions of poisoning

Unpalatable

Winter – other forage limited

Bitterweed

Management to reduce loss

- Bitterweed wash
- Antidotes
 - Cysteine
 - Santiquin
 - Cottonseed & Soybean meal (sulfur AA)
- Dry lot — allow sheep to recover
- Grazing systems
 - Flash grazing – 7day on and off
 - Merrill 3-herd, 4-pasture deferred rotation
 - Common Use – cattle sheep and goats – reduce grazing pressure
 - Improve range condition
- Herbicide control
 - 2,4-D – apply during early growth while actively growing

Orange sneezeweed

(*Helenium hoopseii*)

Spewing sickness, Stiff lamb disease



Ecology

Mountain meadows

Long-lived perennial

Increaser spp. in disturbed sites

Overgrazing increase

Cold tolerant – spring/fall growth

Sneezeweed

Conditions of poisoning

Bed grounds

Closed herding

Repeat grazing

Excessive use of dogs

Regrowth of rosettes in fall

Management

Herder key to reducing loss

Don't bed in dense patch

Move bedground 1-2 nights

Open herding

Graze sneezeweed stands lightly

On – off grazing

Detoxify 10-14 day off

Avoid early / late season grazing

Herbicide control

2,4-D

Dicamba

Picloram

Knapweeds

Chewing disease in horses

Russian Knapweed



Yellow starthistle

