



**DIFFUSE KNAPWEED**  
(*Centaurea diffusa* Lam.)

**GROWTH HABIT:** Annual or biennial, bushy, up to 2 ft tall. **Rosette formed first year, flowering stalk elongates second year.**

**LEAVES:** Greyish-green, alternate, basal leaves whorled, upper leaves much reduced. Covered with fine hair.

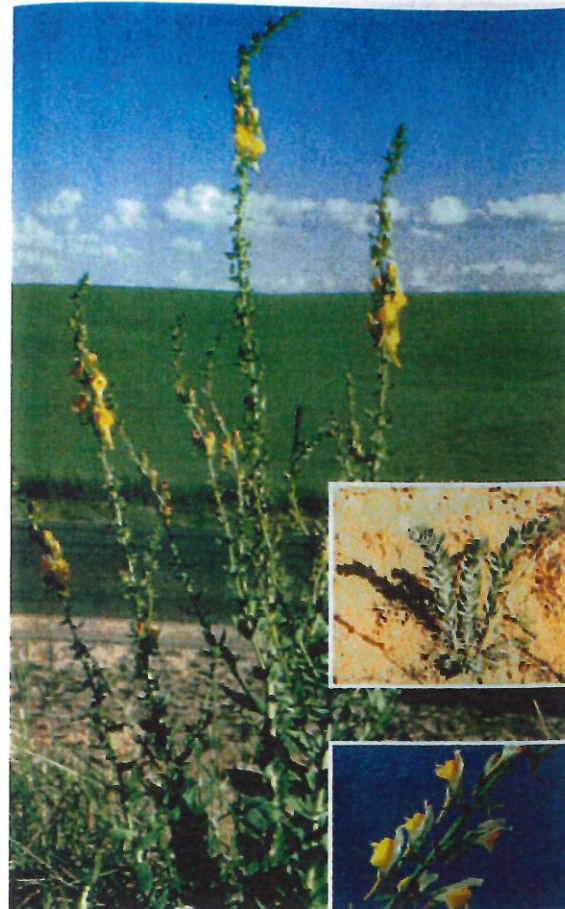
**STEM:** Hairy, erect, single main stem from a rootstock, branched near or above the base.

**FLOWER:** Solitary, usually white, sometimes pink, rose or lavender; seedhead bracts end as sharp, rigid spines.

**ROOTS:** Elongated taproot.

**SEEDS:** Oblong, dark brown or grey with longitudinal lines.

**OTHER:** May seriously reduce productive potential of infested rangelands.



**DALMATIAN TOADFLAX**  
(*Linaria dalmatica* (L.) Mill.)

**GROWTH HABIT:** Perennial, often over 3 ft. tall, erect.

**LEAVES:** Light green, alternate, broad, heart-shaped, clasping the stem.

**STEM:** Branching, light green, smooth and leafy.

**FLOWERS:** Snapdragon type, bright yellow, tinged with orange, to 1 1/2 long spur, born in upper leaf axils.

**ROOTS:** Vigorous, deep and extensive, creeping roots.

**SEEDS:** Numerous, irregularly angled.

**OTHER:** Spread by seed and creeping roots.



**YELLOW STARHISTLE**  
(*Centaurea solstitialis* L.)

**GROWTH HABIT:** Annual, erect, rigid branching stems.

**LEAVES:** Basal leaves deeply lobed, upper leaves not lobed, small, sharply pointed.

**STEMS:** Rigid, covered with a cottony fiber, to 30 inches tall, winged structures.

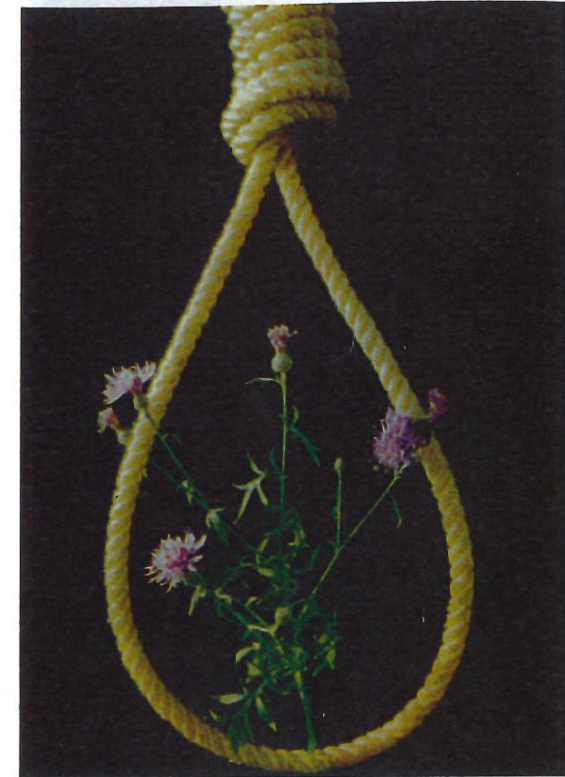
**FLOWER:** Yellow, terminal, flower bracts are tipped with straw-colored, 1/4 inch thorn.

**ROOTS:** Taproot.

**SEEDS:** Smooth, light-colored, often darker mottled, 1/8 inch long, notched just above the base.

**OTHER:** Causes "chewing disease" in horses.

# NOXIOUS WEEDS



**HELP SAVE WYOMING FROM THESE INVADERS**

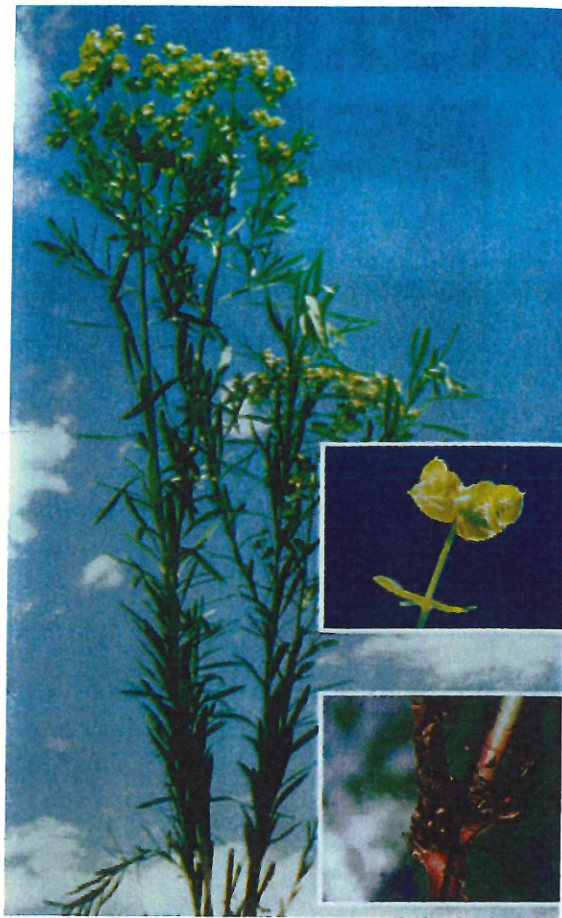
**Laramie County Weed & Pest**

801 Muddy Creek Drive

Pine Bluffs, WY 82082

(307) 245-3213





**LEAFY SPURGE**  
(*Euphorbia esula* L.)

**GROWTH HABIT:** Perennial, erect, up to 3' tall, spreading by seed or **creeping roots**.  
**LEAVES:** Alternate, **long, narrow**, 1/4" wide and 2" long, usually drooping.  
**STEMS:** Branching near top, hairless, **entire plant contains milky sap**.  
**FLOWERS:** Inconspicuous, surrounded by **large heart-shaped floral leaves** which turn **yellow-green** near maturity.  
**ROOTS:** **Brown, numerous pink buds**, deep, spreading, very persistent.  
**OTHER:** Grows in nearly all soil types and habitats. Seed is thrown to 20' by exploding seed capsule.



**MUSK THISTLE**  
(*Carduus nutans* L.)

**GROWTH HABIT:** Biennial, or winter annual, erect up to 7' tall. Freely branching. **Rosette formed 1st year, flowering stem elongates 2nd year**.  
**LEAVES:** **Dark green with light midrib, hairless on both sides**, long sharp spines.  
**STEMS:** **Hairless**.  
**FLOWER:** Solitary, terminal, **nodding heads, 1 1/2" to 3" in diameter, deep rose to violet to purple**.  
**ROOTS:** Fleshy **taproot**, hollow near ground surface.  
**SEEDS:** Can be in excess of 20,000 per plant with 90% viable. 90% may germinate in first two years. Seeds may germinate after 10 years in soil.  
**OTHER:** **Reproduce by seed only**.



**CANADA THISTLE**  
(*Cirsium arvense* L.)

**GROWTH HABIT:** Perennial, erect, up to 4' tall.  
**LEAVES:** Varies from **light to dark green, oblong or lance shaped**, deeply cut, spiny toothed margins (some may be smooth); slightly hairy below. Tremendous leaf variability.  
**STEMS:** Smooth to **slightly hairy**, branched at top.  
**FLOWER:** **Small bristly clusters, 3/8 to 5/8 inch in diameter**, light lavender to deep rose purple. Plants are male or female.  
**ROOTS:** Extensive, fleshy, **creeping rootstocks**.  
**SEEDS:** Smooth, light to dark brown, tipped by a cupped conical point, approx. 1/8" long.  
**OTHER:** Reproduces by seed and creeping rootstocks.



**SPOTTED KNAPWEED**  
(*Centaurea maculosa* Lam.)

**GROWTH HABIT:** Biennial or short lived perennial, up to 3 ft. tall. **Rosette formed first year, flowering stalk elongates second year**.  
**LEAVES:** Long and divided below, **short and narrow above. Covered with fine hair**.  
**STEM:** Erect with slender wiry branches. **Covered with fine hair**.  
**FLOWER:** Seed heads mostly on branch tips, solitary, to 1" diameter. **Pink to purple, rarely white. Seed head bracts are black tipped**, with 5 to 7 pairs of short feathery appendages.  
**ROOTS:** Taproot not well developed.  
**SEEDS:** Brownish, 1/8" long, notched on one side of base, short tuft of bristles at tip end.  
**OTHER:** Very aggressive, can infest large areas quickly, offers very little big game or livestock forage value.