

Checklist to Determine Mesquite Condition for Effective Herbicide Control

Ranch _____

Date _____

Range Site _____

Pasture # _____

MESQUITE CONDITIONS

1. Current foliage volume as a percentage of "normal" _____% <75%.

"RED FLAG" Foliage has been damaged, removed, or reduced by _____% (Circle appropriate agents that have caused damaged, removed, or reduced foliage volume):
 - a. INSECT DAMAGE. Symptoms include: leaflets removed, leaves tied together by webs, insect frass on soil surface, and larvae under loose debris.
 - b. HAIL DAMAGE. Symptoms include: leaves on soil surface, foliage "ragged".
 - c. FREEZE DAMAGE. Symptoms include: yellowing or chlorosis of leaflets and leaf drop.
 - c. DISEASE. Symptoms include: leaf chlorosis, orange dots on lower leaf surfaces, and leaf drop.
 - d. DROUGHT. Symptoms include: necrosis of leaf tips and margins, chlorotic leaves, pale green leaf color, or leaf drop.
2. General foliage color. (Circle appropriate color)
 - a. Dark green
 - b. Pea green **"RED FLAG"**
 - c. Intermediate green (Between dark green and pea green)
3. Is there light or pea green foliage in upper tree canopies and on twig tips? (Circle appropriate response.)
YES NO YES = **"RED FLAG"**
4. Flower color if present. (Circle appropriate answer)
 - a. Yellow
 - b. White **FLAG"**
 - c. None
5. Pod (bean) growth stage. (Circle appropriate answer)
 - a. Not present
 - b. Green and less than fully elongated **"RED FLAG"**
 - c. Green but fully elongated
 - d. Ripe
 - e. Ripe and fallen
6. Notes: Record observations such as the percentage of the trees that appear "normal" and likely susceptible to broadcast sprays, and where these trees occurred (in draws, along roads, in low-density mesquite areas, etc.)

Soil temperature at 18 inches _____ F°

Estimated rainfall within previous week _____ inches

Estimated rainfall within previous month _____ inches

"RED FLAG"= CONDITION FOR POOR SUSCEPTIBILITY TO BROADCAST SPRAYS