

**Chemical Weed Control for Alfalfa in the Low Deserts of Arizona**

Herbicide	Rate lbs ai/A	Application												Comments
			Summer Annual Grasses	Winter Annual Grasses	Shepherdspurse	Londonrocket	Nettleleaf Goosefoot	Common Lambsquarter	Little Mallow	Bermudagrass	Nutsedge	Sandbur	Pigweed	
<b>Balan</b>	1.12 to 1.5	Preplant Incorporated	●	●	○	○	◐	◐	○	○	○	●	◐	Poor weed control may result where soil cracks & weeds emerge through cracks. Injury may result to alfalfa if stressed. Incorporate in 2 directions within 8 hours.
<b>Eptam EC 20% Granules</b>	2.0 to 3.0	Preplant Incorporated & Preemergence	◐	◐	○	○	◐	◐	◐	○	◐	●	●	This product has a short residual, which will require multiple applications for season long control. Application following 1 <sup>st</sup> , 3 <sup>rd</sup> , & 5 <sup>th</sup> cuttings is most common, with the ability to use up to 12 lbs. per season if needed. Use lowest label rates for preplant treatments when extreme temperatures may occur.
<b>Pursuit</b>	0.047 to 0.094	Postemergence	○	◐	●	●	●	○	●	○	◐	○	●	Long soil residual activity, should not be used if rotation to a susceptible crop if possible within one or 2 years. Check label for restrictions. Some temporary stunting of alfalfa will occur after application. Weak on the composites, & lambsquarter. Suppresses grasses. Apply when weeds are small.
<b>Raptor</b>	0.032 to 0.048	Postemergence	◐	◐	●	●	●	◐	●	○	◐	◐	●	Better than Pursuit on Lambsquarters, Sowthistle, Prickly Lettuce and grasses. Shorter soil residue than Pursuit.
<b>Trifluralin 10% Granules</b>	1.0 to 2.0	Preemergence	●	●	○	○	◐	◐	○	○	○	●	●	Should be incorporated with irrigation within 3 days after application. Do not use in new seeded or reseeded alfalfa. Water ponding or high organic matter may reduce control.
<b>2,4-DB Amine</b>	0.5 to 1.5	Postemergence	○	○	○	●	●	●	○	○	○	○	●	To minimize crop injury, avoid applications when foliage does not cover the soil. Irrigation should be delayed as long as possible (10 days or more) following application. The addition of a non-phototoxic surfactant will improve weed control but may also increase injury.
<b>Gramoxone</b>	0.25 to 0.5	Early Postemergence	◐	◐	◐	●	●	●	◐	○	○	◐	●	Do not apply if regrowth after grazing or cutting is more than 2 inches tall or unacceptable injury may occur. Do not graze or harvest within 60 days of application. Foliage present at time of application will be discolored or stunted. Do not use in seedling alfalfa. Contact activity only, will not control weeds that germinate following treatment.
<b>Kerb</b>	0.5 to 2.0	Pre- & early Postemergence	○	●	○	○	○	○	○	○	○	○	○	Label restricts the application of this herbicide to after the first trifoliolate leaf stage of the alfalfa. Irrigation tends to move this herbicide below the germinating broadleaf weeds.
<b>Sencor</b>	0.375 to 0.5	Preemergence & early Postemergence	◐	●	●	●	●	●	◐	○	○	◐	●	Apply following winter or early spring grazing only to established alfalfa. Regrowth of alfalfa should not exceed 2 inches or unacceptable injury may occur. Do not apply to stressed alfalfa. Do not apply to reseeded alfalfa for at least 6 months following reseeding.
<b>Poast</b>	0.1 to 0.5	Postemergence	●	●	○	○	○	○	○	◐	○	◐	○	Will not control annual bluegrass or sprangletop. Apply to actively growing grasses. Always add a non-phytotoxic oil concentrate. A second application will be required on perennial grasses when regrowth occurs or new plants emerge. Will only control weeds present at time of application and more than one application may be necessary to achieve season long annual grass control.
<b>Buctril</b>	0.25 to 0.375	Postemergence	○	○	◐	●	●	●	◐	○	○	○	●	Alfalfa must have a least 2 trifoliolate leaves. Do not apply when temperatures exceed 70°F at or within 3 days of application because unacceptable crop injury may occur. Contract activity only, will not control weeds that emerge following treatment.
<b>Zorial</b>	1.0 to 2.0	Preemergence	●	●	◐	◐	◐	◐	◐	○	◐	●	◐	Cannot apply for 5 months following planting. Will require more than 1 season for nutsedge control. Due to long residual do not apply during final year of stand. Product needs to contact soil so application following sheep or cutting, but before regrowth starts is optimum.
<b>Select</b>	0.094 to 0.25	Postemergence	●	●	○	○	○	○	○	◐	○	◐	○	Apply to actively growing grasses and use a non-phytotoxic oil concentrate. Will control both annual bluegrass and sprangletop.

● Good Control

◐ Partial Control

○ No Control

○ No Control

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