Chemical Weed Control for Alfalfa in the Low Deserts of Arizona

Herbicide	Rate lbs ai/A	Application	Grasses			Broadleaves						Perennials		Comments
			Summer annual grasses	Winter annual grasses	Sandbur	Shepherdspurse	Londonrocket	Common lambsquarter	Nettleleaf Goosefoot	Little mallow	Pigweed	Bermudagrass	Nutsedge	
Balan	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.
Eptam EC 20% Granules	2.0 to 3.0	Preplant Incorporated & Preemergence	◗	◗	●	○	○	◗	◗	◗	●	○	◗	Poor weed control may result when exposed to moisture. Should be incorporated immediately. Very volatile. Use lowest label rates for preplant treatments especially when temperatures exceed 90° for injury may occur.
Pursuit	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 applica-tion. Weak on the composites, & lambsquarter. Suppresses grasses. Apply when weeds are small.
Trifluralin 10% Granules	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.
2,4-DB Amine	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 increase injury.
Gramoxone	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.
Kerb	0.5 to 2.0	Preemergence & early Postemergence	○	●	○	○	○	○	○	○	○	○	○	Label restricts the application of this herbicide to after the first trifoliate leaf stage of the alfalfa. Irrigation tends to move this herbicide below the germinating broadleaf weeds.
Sencor	0.375 to 0.6	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.
Poast	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.
Buctril	0.25 to 0.375	Postemergence	○	○	○	◗	●	●	●	◗	●	○	○	Alfalfa must have a least 2 trifoliate leaves. Do not apply when temperatures exceed 70°F at or within 3 days of application because unacceptable crop injury may occur. Contact activity only, will not control weeds that emerge following treatment.

Zorial	1.0 to 2.0	Preemergence	●	●	●	◗	◗	◗	◗	◗	◗	○	◗	Apply soon after cutting or grazing & incorporate with a minimum of 2 inches of water. Annual applications for 2 or 3 years will be required to control nutsedge. Long soil residue will prohibit rotation to many annual crops.
Select	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   * Pursuit does not control common lambsquarters