

| Crop, Situation, and Active Chemical Per Broadcast Acre | Weeds Controlled | Formulated Material Per Broadcast Acre | Time of Application | Method of Application and Precautions |
|---|--|---|---|---|
| Oats | | | | |
| carfentrazone-ethyl @ 0.008 to 0.031 lb/A | Annual broadleaf weeds. | Aim 2 EC 1.0 to 1.9 oz/A. | Postemergence to weeds up to 4 inches tall. | Use a nonionic surfactant at 0.25% v/v. Coverage is essential for good control. Do not apply more than 1.9 oz/A per year. |
| dicamba @ 0.063 to 0.125 lb/A | Annual broadleaf weeds. | Clarity 2.0 to 4.0 oz/A. | At planting or postemergence prior to 5-leaf stage on spring-seeded oats or prior to jointing on fall-seeded oats. | |
| thifensulfuron-methyl + tribenuron-methyl @ 0.014 to 0.01875 lb/A | Annual broadleaf weeds. | Harmony Extra 75 XP 0.3 to 0.4 oz/A. | Make application after the 2-leaf stage, but before flag leaf in fall-seeded oat and after 3-leaf stage but before jointing in spring-seeded oat. | Add a nonionic surfactant at 0.25% v/v. Check rotation intervals. |
| 2,4-D amine @ 0.25 to 1.0 lb/A | Annual and perennial broadleaf weeds. | 2,4-D amine 0.5 to 2 pt/A of 4 lb/gal 2,4-D. Use the higher rate for late applications and high infestations. | Apply after oat is fully tillered but not forming joints in the stem. | Apply 0.25 to 0.5 pt/A if underseeded with legume. Use higher rate only if weed infestation is severe and legume injury can be tolerated. |
| Millet (Japanese, Proso, Others) | | | | |
| glyphosate @ 1 lb/A | Annual grass and broadleaf weeds. Weak on morningglories. | Glyphosate (4 lb/gal formulations) 2 pt/A. | Use prior to planting for vegetation knockdown. | Apply to actively growing weeds. |
| 2,4-D amine @ 0.5 lb/A | Morningglory, cocklebur, and most other broadleaf weeds. | 2,4-D 4L 1 pt/A. Add 0.25% v/v nonionic surfactant. | 4- to 6-inch millet. | Do not apply when heading. |
| dicamba @ 0.25 lb/A | Morningglory, cocklebur, and most other broadleaf weeds, horseweed and ragweeds. | Banvel or Clarity 4SL 0.5 pt/A. | 2- to 5-leaf stage. | Do not apply when heading. |
| prosulfuron @ 0.027 lb/A | Most broadleaf weeds. | Peak 0.75 oz/A. Add 0.25% v/v nonionic surfactant. | Apply to actively growing millet 8 to 10 inches tall. | Will not control ALS-resistant weeds. Do not apply to millet under stress. |
| SUNFLOWERS (Grown for Doves) | | | | |
| Note: Sunflower recommendations are based on drilled or planted sunflowers with adequate seed coverage. Broadcast seeding may result in an increased risk of herbicide injury. | | | | |
| Preplant Incorporated | | | | |
| S-metolachlor @ 1.27 lb/A | Annual grasses, nutsedge, and small-seeded broadleaf weeds. | Dual Magnum 1.33 pt/A. | Prior to planting. | Avoid high rates. |
| pendimethalin @ 0.5 to 1.5 lb/A | Annual grasses and small-seeded broadleaf weeds. | Prowl 3.3 EC or Pendimax 3.3 EC 1.2 to 3.6 pt/A. | Up to 14 days prior to planting. | Incorporate within 7 days. Use low rate on sandy soils. |

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| ethalfuralin @ 0.56 to 1.125 lb/A | Annual grasses and small-seeded broadleaf weeds. | Sonalan HFP 1.5 to 3 pt/A. | Prior to planting. | Incorporate with two passes in opposite directions no more than 48 hours after application. See label for improved groundcherry control program. |
| trifluralin @ 0.5 to 1.0 lb/A | Annual grasses and small-seeded broadleaf weeds. | Treflan, Trilin, Trifluralin 4 EC 1.0 to 2.0 pt/A. | Up to 14 days prior to planting. | Incorporate immediately. Use 1 pt/A on sandy soils. |
| Preemergence | | | | |
| S-metolachlor @ 1.27 lb/A | Annual grasses and small-seeded broadleaf weeds. | Dual Magnum 1.33 pt/A. | Immediately after planting. | Do not apply POST. Avoid high rates. |
| pendimethalin @ 0.5 to 1.5 lb/A | Annual grasses and small-seeded broadleaf weeds. | Prowl or Pendimax 3.3 1.2 to 3.6 pt/A. | Immediately after planting. | Must receive activating rainfall within 7 days. Do not apply POST. |
| pyoxasulfone @ 0.05 to 0.2 lb/A | Grasses and broadleaves, including pigweed. | Zidua 4.17 SC Pre-plant/PRE 1.75 to 6.50 oz/A POST 1.75 to 3.25 oz/A See label for specifics. | Zidua may be applied preplant surface, preemergence or early postemergence to sunflower for residual preemergence weed control. | Do not exceed 1.5 oz on sandy soils or 5.0 oz on other soils. Do not apply PPI, or at crack/cotyledon stages. Do not tank mix POST with Beyond Xtra on CL sunflowers. 60 day PHI. |
| pyoxasulfone + carfentrazone @ 0.06 + 0.004 to 0.21 + 0.015 lb/A | Grasses and small-seeded broadleaves, pigweed. | Anthem Flex 4 SC 2.0 to 7.3 oz/A | Preplant or prior to emergence. | Do not exceed 9.12 oz/A per year. Do not exceed 7.3 oz/A per application. |
| sulfentrazone + carfentrazone @ 0.12 + 0.014 to 0.15 to 0.016 lb/A | Annual broadleaf weeds. | Spartan Charge 5 to 6 oz/A. | Up to 3 days after planting. | Do not use POST. Tank mixtures of Prowl or Dual with Spartan have performed well in University trials. |
| sulfentrazone + S-metolachlor @ 0.13 + 1.2 lb/A | Grass and broadleaf weeds. | BroadAxe 7 EC or Authority Elite 24 oz/A. | Immediately after planting. | Do not apply POST. |
| sulfentrazone + pyoxasulfone @ 0.1 + 0.1 to 0.21 + 0.21 lb/A or 0.09 + 0.05 to 0.25 + 0.139 lb/A | Grasses and broadleaves, including pigweed. | Authority Supreme 6 to 13 oz/A or Authority Edge 4.4 to 11.7 oz/A. | Up to 3 days after planting. | Rainfall required for activation. Rate depends on soil type. Do not apply POST. |
| Postemergence | | | | |
| clethodim @ 0.125 lb/A | Annual grasses, johnsongrass, and weedy rice. | Select Max 0.97 EC 16 oz/A. Use 1 qt/A or 1.0% v/v crop oil concentrate. | 2- to 6-inch tall grass weeds. | Must add crop oil concentrate. Avoid applications during periods of drought. |
| Clearfield and Clearfield Plus Sunflowers | | | | |
| imazamox @0.039 lb/A | Annual grasses, suppression of johnsongrass and certain broadleaf weeds. Good on broadleaf signalgrass and foxtail. | Beyond Xtra 1 AS 4 oz/A for Clearfield varieties; 4-6 oz/A for Clearfield Plus varieties. Surfactant and liquid nitrogen are required as adjuvants. | 3- to 4-inch weeds and grass. Apply when sunflower is 2-leaf to 8-leaf. | Use on Clearfield hybrids only! Avoid applications during dry periods. Preliminary research has shown that a soil-applied program is needed prior to making POST Beyond Xtra applications in Arkansas. Do not use COC or MSO on Clearfield varieties. They can be used on Clearfield Plus varieties only. |