

NONCROPLAND

Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
BAREGROUND HERBICIDES:		
CBPM (Pramitol 5PS) @ 1-2 lbs/100 sq ft or Pramitol 25E @ 10-20 gal/A	Grasses and broadleaf weeds	Apply anytime to vegetation or soil. IF CBPM is used, broadcast pellets uniformly. If Pramitol 25E is used apply in 150-200 gallons of water. For faster top-kill of existing vegetation, use diesel oil in place of water for a carrier.
Hyvar X 80% WP @ 10-25 lb/A	Grasses and broadleaf weeds	Apply in spring and summer in 150-200 gallons of water. Do not use on irrigation ditches or near desirable trees. Apply with surfactant if weeds are present.
Karmex 80% DF @ 20-60 lb/A	Woody plants	Apply before weed growth begins in 150-200 gallons of water. Use lower rates on lighter soils.
Sahara DG @ 13-19 lb/A	Most annual and perennial weeds	Apply at preemergence or early postemergence in 10-20 GPA of water. Always use a nonionic surfactant or crop oil concentrate for postemergence applications.
Sodium chlorate @ 650-870 lb/A or 1.5-2 lb/100 sq ft (Atlacide)	johnsongrass, bermudagrass and most annual and seedling plants.	Apply to plants actively growing and before seed formation. Easily combustible after drying on clothes and plants. Less flammable when mixed with calcium chloride or borates.
Numerous other herbicide combinations containing borates, chlorates and/or residual compounds are available. Failure to list these in this publication does not indicate that they are ineffective as soil sterilants.		
ABATEMENT - NOT BARE GROUND:		
Arsenal @ 2.0 - 6.0 pt/A	Annual and perennial grasses and broadleaf weeds. Some brush control.	Apply at postemergence to weeds. Good residual activity. For non-cropland use only.
Garlon 4 @ 1.0-2.0 pt/A	Many broadleaf weeds and some brush species.	Apply in spring and summer in 10-20 of water. Good brush control. Weak on some broadleaf weeds. Recommended for use in 2,4-D restricted parishes and areas.
Journey @ 10.7-16.4 oz/A	Johnsongrass, vaseygrass, and certain broadleaf weeds.	Apply in spring and summer in 10-20 gallons of water with 0.5% V/V surfactant. Use at higher rate in spring for bermudagrass release on noncrop areas where bahiagrass is not desirable. Lower rate may or may not control bahiagrass. Use in combination with mowing for best results.
Karmex 80DF @ 5-10 lb/A	Johnsongrass, other grasses and most annual and perennial broadleaf weeds.	Apply in late winter or early spring in 100-150 gallons of water. Can be applied to fence rows including pasture fences for season-long weed control.
Karmex 80 DF @ 3.0 lb/A + MSMA @ 3.0 lb/A	Johnsongrass, dallisgrass and most annual grasses and broadleaf weeds.	Apply in the spring after grasses and broadleaf weeds are growing in 50 gal/A. Hyvar more effective on heavy or clay soil. Apply as a spray to remove grasses and weeds when a bermudagrass sod is desired. Dry ditches, turn rows and fences except around pastures. Do not apply products containing arsenic along pasture fences. Add 0.50% nonionic surfactant.
Hyvar X 80WP @ 1.5 lb/A + MSMA @ 3.0 lb/A		
Oust XP @ 3-12 oz/A	Annual and perennial broadleaf weeds and grasses	Apply preemergence or early postemergence. May be used at up to 10 oz/A for bermudagrass "release" in noncrop areas. Avoid runoff onto crop land. Specific labels exist for the tank-mix of Roundup plus Oust XP for bermudagrass release.

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ABATEMENT - NOT BARE GROUND: continued		
Outrider @ 1.3 oz/A	johnsongrass	Apply at early postemergence. For bermudagrass and bahiagrass release on roadsides and other non crop areas. Apply with 0.5% surfactant.
Overdrive @ 4.0 -8.0 oz/A	Many broadleaf weeds.	Apply in spring and summer in 10-20 gal. water.
Plateau @ 7 - 10 oz/A	Johnsongrass, vaseygrass & certain broadleaf weeds.	Apply at early postemergence for bermudagrass release on roadsides and other noncrop areas. Apply with 0.5% surfactant.
Roundup Ultra/Pro OR other glyphosate formulations ¹ (4 lb/gal) @ 1 - 5 qt/A	Annual and perennial broadleaf weeds and grasses	Apply to actively growing weeds. Use 1-1.5 pt/A for bermudagrass release. High rates give non-selective control. Roundup Pro and Oust XP are currently registered to be tank-mixed at 1.0 pt plus 1.0 oz. Oust XP/A for bermudagrass release in noncropland areas.
Spike 80WP @ 5-20 lb/A	Annual and perennial broadleaf grasses and woody plants	Apply in winter and early spring in 100-200 gallons of water. Use high rates for perennial grasses and woody plants. Don't use on fence rows.
Ureabor @ 1-3 lb/100 sq ft.	Annual and perennial broadleaf weeds	Apply when weeds are actively growing. Noncrop areas only. Can be applied dry or dissolved in water to spray.
VEGETATION CONTROL UNDER ASPHALT PAVEMENT - CAUTION: Vegetation such as trees and shrubs may be damaged or even killed if their roots grow into the herbicide-treated soil.		
Borascu @ 4840 lb/A	All weeds controlled	Apply just ahead of prime coat. Apply dry and incorporate to a 4" depth. Thorough incorporation is needed for proper bonding of asphalt to base.
CBM (Sodium chlorate + sodium metaborate) @ 240 gal/A	All weeds controlled	Apply just ahead of prime coat in 200 gal of water/A. Weeds from adjacent areas may grow under edge of pavement.
Hyvar XL @ 12 gal/A or Hyvar X @ 30 lb/A	All grasses, sedges and broadleaf weeds	Apply after shaping and prior to compacting. After spraying incorporate into the top 6 inches of material with rotary equipment.
Pramitol 25E @ 25 gal/A or Pramitol 80 WP @ 60 lb/A	Same as above.	Same as above. Do not apply Pramitol under asphalt coating less than 3 inches.
Treflan @ 3.0 - 4.0 gal/A	Grasses and some broadleaf weeds	Same as above. Use sufficient water to ensure thorough wetting of the soil.
Spike 80W @ 5.0 - 20.0 lb/A	Broadleaf weeds and grasses	Same as above. Rate depends on weeds to be controlled. See label.
WEEDS IN EXISTING ASPHALT PAVEMENTS:		
Roundup Ultra, Roundup Pro, others @ (4 lb/gal) 5 qt/A	Same as above	Apply in 10-40 gal of water. Use 2 oz/ gallon of water per 1000 sq ft. to control annual grasses. Bermudagrass, nutsedge, other perennial weeds use 3 oz per gallon water per 1000 sq ft.)
Other treatments listed for soil sterilization can also be used to treat the soil under pavement. Hyvar is more effective in controlling nutsedge than many of the other herbicides listed. All of the soil sterilization treatments, except TCA, may injure vegetation some distance from the edge of the pavement. Hyvar, Karmex, AAtrex, Pramitol may injure trees adjacent to the treated area.		
FOLIAGE TREATMENTS NONSELECTIVE - GRASSES AND BROADLEAF WEEDS		
Arsenal @ 2.0 - 6.0 pt/A	Annual and perennial grasses and weeds. Some brush species.	Apply in 30 - 50 gal water/A. Good residual activity.
Finale @ 3.0 - 6.0 qt/A	Annual and perennial grasses and broadleaf weeds	Apply in 20 gal water/A. No residual activity. Fast acting.
Herbicidal Naphtha	Annual grasses and broadleaf weeds; top kill of perennial weeds.	Apply in 50 - 100 gal/A. Regrowth will occur from roots and other annual weeds will probably appear. Repeat as needed.

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Roundup Ultra/Pro, others @ (4 lb/gal) 2 - 5 qt/A	Annual and perennial weeds	Apply in 10 - 40 gal of water per acre. Apply 1% solution to annual weeds and johnsongrass (1 1/4 oz Roundup/gal). Apply 2% solution to bermudagrass and nutsedge (2 1/2 - 3 oz Roundup/gal).

¹ See "Appendix A" for more information on several glyphosate products and formulations.