

Noncropland

(Perennial, Annual Grass Weeds and Vines)

Table 1. Bareground herbicides.

Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
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 gal. 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 lbs/A	Grasses and broadleaf weeds.	Apply in spring and summer in 150-200 gal. of water. Do not use on irrigation ditches or near desirable trees. Apply with surfactant if weeds are present.
Karmex 80% DF @ 20-60 lbs/A	Woody plants.	Apply before weed growth begins in 150-200 gal. of water. Use lower rates on lighter soils.
Imazuron, Mojave DG @ 13-19 lbs/A	Most annual and perennial weeds.	Apply at preemergence or early postemergence in 10-20 GPA of water. Always use a non-ionic surfactant or crop oil concentrate for postemergence applications.
Sodium chlorate @ 650-870 lbs/A or 1.5-2 lbs/100 sq ft (Atlacide)	Johnsongrass, bermudagrass; 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.
Viewpoint @ 13-20 oz/A	Grasses, broadleaf weeds, many woody plants.	Apply preemergence or postemergence to weeds. Consult label for proper rate selection.

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.

Table 2. Abatement - Not Bareground.

Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
Arsenal and other imazapyr formulations @ 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; some brush species.	Apply in spring and summer in 10-20 of water. Good brush control. Weak on some broadleaf weeds. Effective on briars and other vines. Recommended for use in 2,4-D-restricted parishes and areas.
Journey @ 10.7-16.4 oz/A	Johnsongrass, vaseygrass, certain broadleaf weeds.	Apply in spring and summer in 10-20 gal. of water with 0.5% V/V surfactant. Use at higher rate in spring for bermudagrass release on non-crop areas where bahiagrass is not desirable. Lower rate may or may not control bahiagrass. Use in combination with mowing for best results.

Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
Karmex 80DF @ 5-10 lbs/A	Johnsongrass, other grasses, most annual and perennial broadleaf weeds.	Apply in late winter or early spring in 100-150 gal. of water. Can be applied to fence rows including pasture fences for season-long weed control.
Karmex 80 DF @ 3.0 lbs/A + MSMA @ 3.0 lbs/A OR Hyvar X 80WP @ 1.5 lbs/A + MSMA @ 3.0 lbs/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% non-ionic surfactant.
Esplanade 200 SC @ 3.5-7.0 fl oz/A	Preemergence control of annual grasses and certain broadleaf weeds.	Apply prior to weed germination. Excellent long-term preemergence annual grass and small-seeded broadleaf control. Apply with postemergence herbicide such as glyphosate.
Outrider @ 1.3 oz/A	Johnsongrass and sedges.	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 GPA.
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 (4 lbs/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 nonselective 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 non-crop areas.
Milestone @ 4.0-7.0 oz/A	Many broadleaf weeds.	Very effective on broadleaf weeds such as clovers, Virginia buttonweed, thistle and horsenettle.
Spike 80WP @ 5-20 lbs/A	Annual and perennial broadleaf grasses and woody plants.	Apply in winter and early spring in 100-200 gal. of water. Use high rates for perennial grasses and woody plants. Don't use on fence rows.
Ureabor @ 1-3 lbs/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.
Streamline @ 1.7-9.5 oz/A	Most broadleaf weeds and bahiagrass.	Apply at full-leaf, avoid drift to desirable plants. Can be used in certain unimproved turf and roadside applications. Consult label for proper rate and weed selection. Apply when weeds are actively growing. Add 0.25 % v/v non-ionic surfactant.

Table 3. Vegetation control under asphalt pavement and existing asphalt pavement.

Attention: Vegetation such as trees and shrubs may be damaged or even killed if their roots grow into the herbicide-treated soil.

Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
CBM (Sodium chlorate + sodium metaborate) @ 240 gal/A	All weeds controlled.	Apply just ahead of prime coat at 200 GPA. Weeds from adjacent areas may grow under edge of pavement.
Hyvar XL @ 12 gal/A or Hyvar X @ 30 lbs/A	All grasses, sedges, 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 lbs/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 lbs/A	Broadleaf weeds and grasses.	Same as above. Rate depends on weeds to be controlled. See label.
Roundup Ultra, Roundup Pro, others 4 lbs active ingredient @ 5 qt/A	Broadleaf weeds and grasses.	Weeds in existing asphalt pavements: Apply in 10-40 gal of water. Use 2 oz/ gal of water per 1,000 sq ft to control annual grasses. Bermudagrass, nutsedge, other perennial weeds, use 3 oz per gallon of water per 1,000 sq ft). For torpedograss infestations, use 5 oz per gallon of water per 1,000 sq ft.

Other treatments listed for soil sterilization also can 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.

Table 4. Foliage treatments nonselective - grasses and broadleaf weeds.

Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
Arsenal and other imazapyr formulations @ 2.0-6.0 pt/A	Annual and perennial grasses and weeds; some brush species.	Apply at 30-50 GPA. Good residual activity.
Finale @ 3.0-6.0 qt/A	Annual and perennial grasses and broadleaf weeds.	Apply at 20 GPA. No residual activity. Fast acting.
Herbicide Naphtha	Annual grasses and broadleaf weeds; top kill of perennial weeds.	Apply at 50-100 GPA. Regrowth will occur from roots; other annual weeds will probably appear. Repeat as needed.
Roundup Ultra/Pro, others @ (4 lbs/gal) 2-5 qt/A	Annual and perennial weeds.	Apply in 10-40 GPA. Apply 1% solution to annual weeds and johnsongrass (1.25 oz Roundup/gal). Apply 2% solution to bermudagrass and nutsedge (2.5-3 oz Roundup/gal).

