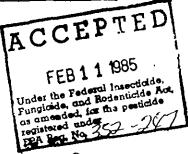
SEE FOLDER IN BOTTOM FLAP FOR USE INSTRUCTIONS





KARMEX

WETTABLE POWDER

ACTIVE INGREDIENT:

Ĺ

 Diuron [3-(3,4-dichlorophenyl)-1,1-dimethylurea]
 80%

 INERT INGREDIENTS
 20%

 EPA Reg. No. 352-247

KEEP OUT OF REACH OF CHILDREN. PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS

CAUTION! MAY IRRITATE EYES, NOSE, THROAT AND SKIN.

Avoid breathing dust or spray mist. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling.

Do not apply this product in such a manner as to directly or through drift expose workers, or other persons. The area being treated must be vacated by unprotected persons.

STATEMENT OF PRACTICAL TREATMENT

If on skin: Wash with plenty of soap and water; get medical attention if irritation persists. If in eyes: Flush with plenty of water; get medical attention if irritation persists.

ENVIRONMENTAL HAZARDS

Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal or wastes. Cover or incorporate spins.

IMPORTANT: Injury to or loss of desirable trees or other plants may result from failure to observe the following:

Do not apply (except as recommended for crop use), or drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. Do not use on home plantings of trees, shrubs or herbaceous plants, nor on lawns, walks, driveways, tennis courts, or similar areas. Prevent drift of dry powder or spray to desirable plants. Do not contaminate any body of water. Keep from contact with fertilizers, insecticides, fungicides, and seeds.

Thoroughly clean all traces of "Karmex" from application equipment immediately after use. Flush tank, pump, hoses, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately).

NET 4 LBS.

E. I. du Pont de Nemours & Co. (Inc.)

Agricultural Chemicals Dept., Wilmington, Del.

EPA Est, 352-TX-1; 5905-AR-1; 477-TX-1 SUPERSCRIPT USED IS FIRST LETTER OF LOT NUMBER

NOTICE OF WARRANTY

Ou Pont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purposes stated on such label only when used in accordance with the directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Du Pont. In no case shall Du Pont be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. DU PONT MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

SELECTIVE USE IN CROPS

Do not use in Kern County, Cakfornia, except for non-cropiand and citrus weed control.

FIELD CROPS

Alfalfa: United States
Artichoke: California
Asparagus: United States

Barley, Winter: Western Oregon and

Western Washington

Bermudagrass Pastures (Newly Sprigged): United States

Birdsfoot Trefoil (Lotus): Western Oregon

Corn (Field):

Postemergence—United States
Preemergence—Arkansas, Louisiana,
Mississippi and Tennessee

Cotton:

Preplant-Arizona and California

Preemergence—United States, except Arizona, California, and certain other areas

Postemergence—United States

Grass Seed Crops (Perennial): Colorado, Kansas, New Mexico, Oklahoma and Oregon

Oats: Idaho, Oregon and Washington

Peppermint: Pacific Northwest Red Clover: Western Oregon

Sorghum (Grain): Southwestern States Sugarcane: Florida, Hawaii, Puerto

Rico and Louisiana

Wheat, Winter: Idaho, Oregon, Washington and certain other areas

FRUIT AND NUT CROPS

Apples: United States

Bananas and Plantains: United States

Blueberries, Caneberries and

Gooseberries: Indiana, Michigan and Ohio—Blueberries and Raspberries; Massachusetts and New Jersey—Blueberries; California—Raspberries, Blackberries, Boysenberries, Dewberries, and Loganberries; Western Oregon and Western Washington—Blueberries, Caneberries and Gooseberries; Georgia—Blueberries

Çitrus: Arizona (except Yuma area) and California (except Imperial and Coachella Valleys), Florida, Texas and Puerto Rico

Grapes: United States Macadamia Nuts: Hawaii Olives: California

Papayas: United States
Peaches: United States
Pears: United States
Pecans: United States

Pineapple: Hawaii and Florida Walnuts (English): California

ORNAMENTAL CROPS

Ornamental Bulb Crops (Bulbous Iris, Narcissus): Western Washington Plumosus Fern: Florida

Tree Plantings: Colorado, Montana, Nebraska, North Dakota, South Dakota and Wyoming

NON-CROP WEED CONTROL

UTILITY, HIGHWAY, PIPELINE, RAILROAD RIGHT OF WAYS—INDUSTRIAL PLANT SITES—STORAGE AREAS—LUMBERYARDS—PETROLEUM TANK FARMS—FARM BUILDINGS—IRRIGATION AND DRAINAGE DITCHES

STORAGE AND DISPOSAL

STORAGE: Store product in original container only, away from other pesticides, fertilizer, food, or feed.

DISPOSAL: Do not contaminate water, food, or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

9 n e 378 - A08.

Marks In 41 C & ... Balance In 44 C A



Product Labeling

DIRECTIONS FOR USE

E. I. DU PONT DE NEMOURS & CO. (INC.) AGRICULTURAL CHEMICALS DEPT., WILM., DE

AG-242 0984

Made in USA Printed in USA

BEST AVAILABLE COPY

ACTIVE INGREDIENT:

EPA Reg. No. 352-247

KEEP OUT OF REACH OF CHILDREN PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS

CAUTION! MAY IRRITATE EYES, NOSE, THROAT, AND SKIN.

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STATEMENT OF PRACTICAL TREATMENT

If on skin: Wash with plenty of soap and water; get medical attention if irritation persists. If in eyes: \mathbf{F}' is with plenty of water; get medical attention if irritation persists.

ENVIRONMENTAL HAZARDS

Do not apply directly to water. Do not contaminat water by cleaning of equipment or disposal of wastes. Cover or incorporate spills.

IMPORTANT—Injury to or loss of desirable trees or other plants may result from failure to observe the following:

Do not apply (except as recommended for crop use), or drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. Do not use on home plantings of trees, shrubs or herbaceous plants, nor on lawns, walks, driveways, tennis courts, or similar areas. Prevent drift of dry powder or spray to desirable plants. Do not contaminate any body of water. Keep from contact with fertilizers, insection es, fungicides, and seeds.

Thoroughly clean all traces of "Karmex" from application equipment immediately after use. Flush tank, pump, hoses, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately).

GENERAL INFORMATION

Ou Pont "Karmex" Herbicide is a wettable powder to be mixed in water and applied as a spray for selective control of weeds in certain crops and for nonselective weed control on non-cropland areas. It is non-corrosive to equipment, nonflammable and nonvolatile

"Karmex" may be applied to soil prior to emergence of weeds to control susceptible weed seedlings for an extended period of time; the degree of control and duration of effect will vary with the amount of chemical applied, soil texture, rainfall and other conditions. Soils high in clay or organic matter require higher dosages than soil low in clay or organic matter to obtain equivalent berbiede performance. Moisture is

ALFALFA: Treat only stant at a tablished for 1 year or more. Do not grass mixtures; do not apply alfalfa under stress from disease, i (such as on shallow hard pans), alkali spots; nor to flooded fields on snow-covered or frozen ground.

Idaho, Oregon, Washington: Use 1½ to 3 lbs. per acre for control Apply in fall after alfalfa becomes dormant but no later than m California (Dormant and Semi-Dormant Varieties): Use 1½ to 3 lbs. use 4 lbs. per acre. Apply in fall or winter after alfalfa becomes growth begins in the spring. Crop injury may result if application best results, apply before weeds have emerged or become establis of established weeds is improved by applying "Karmex" with a such use. Sufficient rainfall for soil activation of "Karmex" is a Treated areas may be replanted to any crop after one year from

Arizona, Nevada: Use $1\frac{1}{2}$ to 3 lbs. per acre, apply in fall after alfa January.

Eastern Colorado, Kansas: For control of tansymustard, apply 1 lb. tard in the fall or winter; use 2 lbs. per acre if weeds are 2" to 4" weeds are present, apply 2 to 3 lbs. per acre in February or March Other Areas Where Alfalfa Becomes Winter Dormant: Use 11 z to 3 lb Appalachian Mountains). Apply in March or early April, but before

- ARTICHOKE—California: Apply 2 to 4 lbs. per acre in late fall Apply before weeds germinate or to emerging seedlings. Direct spra at the base of artichoke plants, keeping contact with crop plant
- ASPARAGUS: Apply as a band or broadcast treatment. Do not growing season (except as noted below), nor to newly seeded assor as severe injury may result. Preemergence weed control will be (greater than 5%).
- Established Plantings; On light, sandy soils and other soils low in classifier. On soils high in clay or organic matter, use 2 to 4 lbs, per acre application should be made before weeds become established be emergence and no later than the early cutting period (if weeds a cultural practices, application may be delayed until immediately a cation may be made immediately following completion of harvest applications are used in one season, do not exceed 3 lbs. per (irrigated crop), apply a single treatment of 4 lbs. per acre. If or early spring, incorporation of the chemical in the top 1" of rain to activate the herbicide.

Newly Planted Crowns—California (San Joaquin Delta): Make a sir soils high in clay or organic matter; use the lower rate on clay loam: use on soils containing less than 2% organic matter. Soil must b treatment. Do not treat crowns planted to a depth of less than

- BARLEY, WINTER (Drill-Planted)—Western Oregon and Wester of 1½ to 2 lbs. per acre as soon as possible after planting but be treated areas to any crop within 1 year after last application as injury.
- BERMUDAGRASS PASTURES (Newly Sprigged): Apply 1 gence of bermudagrass or weeds. Alternatively, for control of en apply ½ to 1 lb. per acre; add 1 pt. Surfactant WK per 25 gals. o time of treatment, temporary burn of exposed plant parts may

Plant sprigs (stolons) 2" deep in a well-prepared seedbed; do not than 2" deep as crop injury may result. Do not graze or feed foliage days after application.

BIRDSFOOT TREFOIL (Lotus)—Western Oregon: Treat only
not apply to seedling trefoil as injury may result. Make a single a
dormant (October 15 to December 15). Do not replant treated a
application as injury to subsequent crops may result.

● CORN ("IELD):

Postemergence—Make a single application of % lb. per acre in solution. If nitrogen solution is not used, apply 1 lb. per acre; add Apply as a directed spray when corn is at least 20" high and wer OVER TOP OF CORN. Do not replant to any crop within 1 year, eximally be planted the spring following treatment.

Presmergence—Arkansas, Leuislane, Mississippi and Tennessee:

"Karmex" applied preemergence, before emergence of crop and weeds, is an effective procedure because susceptible weeds are controlled in an early, vulnerable seedling state before they compete with the exposition survey and the exposition of the competence of the

include cultivation and postemergence herbicide application.
"Karmex" may also be used to control emerged weeds. Results vary with rate applied and environmental conductions; best results are obtained on succulent weeds growing under conditions of high humidity and temperatures of 70°F or higher. Addition of a surfactant such as Du Port Surfactant WK to the spray

(where recommended) increases contact effects of "Karmex."

"Karmex" may be used as a directed posternergence application, where spray nozzels are adjusted so that weeds are sprayed but the crop is not, on the following crops: artichoke, corn (field), cotton, sorghum (grain), sugarcane, and established plantings of apples, tunanas, plantains, blueberries, caneberries, gooseberries, citrus, grapes, macadamia nuts, olives, papayas, peaches, pears, pecans, walnuts and code in the plantings.

gooseberries, citrus, grapes, macadamia nuts, olives, papayas, peaches, pears, pecans, walnuts and certain tree plantings.

Under specified conditions (see Directions for Use), "Karmex" without surfactant may be applied over the top of alfalfa (established, dormant or semidormant), asparagus (established), birdsfoot trefoil (established).

lished, dormant), grass seed crops (established), oats, red clover (established, dormant), sugarcane, wheat, pineapple and plumosus fern (established, mowed).

Weed species vary in susceptibility to "Karmex" and they may be more difficult to control when under stress. Combinations of "Karmex" with other herbicides (as registered) increase the number of weed.

species controlled; consult labels of the companion product for this and other information.

Since the effect of "Karmex" varies with soils, uniformity of application, and environmental conditions, it is suggested that growers limit their first use to small areas. Observe all cautions and limitations on labeling of all products used in mixtures.

-NOTICE OF WARRANTY--

Du Pont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with the directions under normal use conditions. It is impressible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Du Pont. In no case shall Du Pont be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. Du Pont MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

DuPont "Karmex" Herbicide should be used only in accordance with recommendations on this

label, or in separate published Du Pont recommendations available through local dealers.

Du Pont will not be responsible for losses or damages resulting from use of this product in any manner not specifically recommended by Du Pont. User assumes all risk associated with

such non-recommended use.

Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. When oral warnings are given, warnings shall be given in a language customarily undershood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Warnings must include the following information: "CAUTION. Area treated with 'Karmex' on (date of application). Do not enter without appropriate protective clothing until sprays have dried in case of contact, wash skin with plenty of soap and water, flush eyes with plenty of water. Get medical

Do not use in Kern County, California, except for non-croptand and citrus weed control.

attention if irritation to skin or eyes persist

SELECTIVE USE IN CROPS

PREEMERGENCE USE (Germinating Weeds): "Karmex", at recommended rates, controls annual weeds such as:

Broadleaves				Grasses		
% to 1 Lb./Acro	1½ to 2 Lbs./Acre	2 to 6 Lbs./Acre	% to 1 Lb./Acre	14 to 2 Lbs./Acro	2 to 6 Lbs./Acr	
Lambsquarters Pigreed Purslane	Annual groundcherry Annual morningglory Chickweed	Ageratum Annual smartwead Annual southistle	Barnyardgrass (watergrass) Crabgrass	Annual bluegrass Annual sweet vernalgrass	Annual lovegrass Annual ryegrass Kyllinga	

ment and 6 months tollowing proadcast treatment as crop injury may result.

COTTON: During a single crop season, do not exceed the following amounts of "Karmex" per acre as injury to subsequent crops may result: 1 lb. on loamy sand; 1½ lbs. on sandy loam; 2 lbs. on clay loam; 2½ lbs. on clay. Injury may occur if "Karmex" is used in conjunction with soil-applied organic phosphate pesticides. Do not allow livestock to graze treated cotton.

"Karmex" as a broadcast spray after beds are formed, preirrigated, and final seedbeds prepared. Prior to planting, drag-off the tops of the beds and plant in moist soil not treated with "¡Karmex". Treated soil is returned to the bed after planting when irrigation furrows are reformed after cotton has emerged. If more than two furrowing-out operations are made prior to lay-by, or deep furrows are made early, weed control may be reduced in furrow bottoms. Use at the following rates:

Preplant—Arizona and California: Use "Karmex" alone, or apply as a separate operation following preplant

broadcast treatment with "Treflan" (incorporated according to directions on "Treflan" label) Apply

"Karmex" Alone: 1 to 21/2 lbs per acre.

"Karmex" Following "Treflan":

	Product Per Acre—Preplant		
Soil Texture	"Treflan"	"Karmex"	
Sandy loam, loam, silt loam, silt	l pt	⅔ to 1 lb.	
Sandy clay loam, clay loam, silty clay loam, sandy clay, clay	1½ pts	1 to 1¼ lbs	

Sandy clay loam, clay loam, silty clay loam, sandy clay, clay 1½ pts. 1 to 1½ lbs.

Note: Seedling disease may weaken plants and increase the possibility of injury from the use of "Treflan' followed by "Karmex". These treatments should be used only in conjunction with a standard fungicide seed.

treatment plus a good supplemental soil fungicide program such as captan-PCNB mixture.
*Reg trademark of Elance Products Co

Preemergence—U.S., except Arizona, California, and areas west of Interstate 35 or 35W in Texas and Oklahoma: Use "Karmex" alone or apply as a separate operation following preplant treatment with "Treflan". Apply "Karmex" after planting but before cotton emerges. Do not treat cotton in deep furrows as crop injury may result, use only where cotton is planted on flat or raised seedbeds. Shallow incorporation (no deeper than '4") with a rotary hoe or similar equipment following planting usually improves results

especially during dry weather. A wide press wheel should be used on the planter to provide a level seedbed

for subsequent early season posternergence treatments. If moisture is insufficient to activate "Karmex"

or if soil becomes crusted before crop emerges, a shallow rotary hoeing (no deeper than ¼") should be made before weeds become established.

"Karmex" Alone: Make a single application as a broadcast or band spray, using the following broadcas rates: for band treatment, use proportionately less.

Soil Texture**	Lbs. "Karmex" Per Acre
Loamy sand	33
Sandy loam, loam, silt loam, silt	1
Sandy clay loam, clay loam, sifty clay loam, sandy clay.	11/4
Silty clay, clay	2

**Do not use on soils with less than 1% organic matter as crop injury may result

"Karmex" Following "Treflan" Preplant: Apply "Treflan" prior to planting as a broadcast or band treatment, incorporate according to directions on "Treflan" label. As a separate operation, apply "Karmex" as band treatment (14" to 20" wide) after planting but before cotton emerges. Use at the following broadcast rates; for band Teatment, use proportionately less. See "Note" under Preplant at the

	Produ	ct Per Acre
Soil Texture**	Preplant "Treflan"	Preemergence "Karmex"
Loamy sand.	. ½ pt.	35 lb.
Sandy loam, loam, silt loam, silt .	1 pt.	1 lb
Sandy cłay loam, silty clay loam, sandy clay, silty clay, clay	1½ pts.	1¼ to 2 lbs.

^{**} Φ) not use on soils with less than 1% organic matter as crop injury may result.

Postemergence—U.S.:Apply only as a directed spray to cover weed foliage, adjust nozzles to minimize contact of cetton leaves with spray or drift or crop injury may result. DO NOT SPRAY OVER TOP COTTON

Early Season—Apply when cotton is at least 6" tall and when weeds are actively growing and do no exceed 2" in height. Apply as a band treatment at following rates; for each 25 gals, of spray, add 1 p. Surfactant WK. Two applications may be made if needed

TANKS AND DESTRUCTION

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Warnings must include the following information: "CAUTION. Area treated with 'Karmex' on (date of application). Do not enter without appropriate protective clothing until sprays have dried. In case of contact, wash skin with plenty of soap and water, flush eyes with plenty of water. Get medical attention if irritation to skin or eyes persist."

Do not use in Kern County, California, except for non-cropland and citrus weed control.

SELECTIVE USE IN CROPS

PREEMERGENCE USE (Germinating Woods): "Karmex", at recommended rates, controls annual weeds such as:

	Broadleaves			Grasses	_
% to I LA./Acro	1% to 2 Lbs./Acre	2 to 6 Lbs./Acre	% to 1 Lb./Acro	1% to 2 Lbs./Acre	2 to 6 Lbs./Acro
LambSquarters Pigweed Pursiane Ragweed	Annual groundcherry Annual morningglory Chickweed Corn spussy Dogfennel Fidd'eneck (amsinckia) Cromwell Knawel Pennycress Shepherdspurse Tansy-mustard Wild buckwheat Wild lettuce Wild mustard	Ageratum Annual smartweed Annual sowthistle Corn speedwell Dayflower Flora's paintbrush Hawksbeard Horseweed Kochia Marigold Mexican clover Pineappleweed Pokeweed Rabbict tobacco Sganishneedles Yelvetlaaf (buttonweed) Wild radish	FEB	deral Insecticide A Radesticide A	

Partial control of the following weeds usually occurs at rates stated:

Broadleaves	dieavesGra		Grasses	
I Lb./Acre	4 Llis./Acre	4 Lbs./Acre	# to 10 Lbs./Acre	
Annual morningglory Cocklebur	Horsenettle	Quackgrass	Guineagrass Maidencane	
Prickly sida (teaweed)			Pangolagrass	
Sesbania				

POSTEMERGENCE USE (Emerged Seedling Weeds): "Karmex" at recommended rates, controls annual weeds such as annual morningglory, barnyardgrass (watergrass), crabgrass, crowfoot, goosegrass, pigweed and purslane. Addition of Surfactant WK to the spray (where recommended) increases contact effects of "Karmex". Best results are obtained on succulent weeds growing under conditions of high numidity and temperatures of 70°F or higher.

ECUIPMENT—SPRAY VOLUMES AND PRESSURES: Use a boom power sprayer properly and the continuous agitation in the spray tank is required to keep the material in suspension. Agitate by mechanical or hydraulic means; if by-pass or return line is used, it should terminate at bottom of tank to minimize foaming. Avoid overlapping, and shut off spray booms while starting, turning, slowing or stopping, or injury to the crop may result.

For preemergence application, use 25 to 40 gals, per acre and spray pressure of 30 to 40 psi. For postemergence application, use sufficient volume (min. 25 gals, per acre) for thorough coverage of weed foliage; use spray pressure of 20 to 25 psi to keep spray drift to a minimum.

Aerial: For alfalfa, asparagus, barley (winter), cotton (preplant or preemergence only), grass seed crops, prescription of spray swatch and avoid application may be made by aircraft (5 to 10 gals, per acre); avoid exercipting of spray swatch and avoid application under conditions where excessive drift may occur. Where and is bedded, make application parallel to rows.

PRAY PREPARATION: Mix proper amount of "Karmex" into necessary volume of water; where use of Ju Pont Surfactant WK is recommended, dilute with 10 parts of water and add as last ingredient to nearly ull tank.

JSE RATES: All dosages of "Karmex" are expressed as broadcast rates: for band treatment, use proortionately less. For example, use % of the broadcast rate when treating a 14" band where row spacing is 2". Where a range of dosages is given, use the lower sate on connect tendencial Administration of the connect tendencial rates; for band treatment, use proportionately less. See "Note" under Preplant above.

	Prod	uct Per Acre
Soli Texture**	Preplant "Treflan"	Preemergence "Karmex"
Loamy sand	½ pt	ኝ (b.
Sar dy loam, loam, silt loam, silt	1 pt	1 lb
Sandy clay loam, clay loam, silty clay loam, sandy clay, silty day, clay	11/4 pts.	1¼ to 2 lbs

**Do not use on soils with less than 1% organic matter as crop injury may result

Postemergence—U.S.:Apply only as a directed spray to cover weed foliage, adjust nozzles to minii contact of cutton feaves with spray or drift or crop injury may result. DO NOT SPRAY OVER TOI COTTON.

Early Season—Apply when cotton is at least 6" tall and when weeds are actively growing and diexceed 2" in height. Apply as a band trealment at following rates, for each 25 gals of spray, add Surfactant WK. Two applications may be made if needed.

Weed Problem (Up to 2" Tall)	Lbs, "Karmex" Per Acre (Broadcast Basis)
Annual grasses	1/3
Pigweed	

For control of seedling perennial grasses such as johnsongrass and partial control of nutsedge or wieed growth is under drought stress or as high as 4", add 2 to 3½ lbs, disodium methylarsonate (DS 63% anhydrous or equivalent) to above spray mixture. If DSMA is used, do not apply after first blooms and the second stress of the second stress of

Late Season (Lay-By)—Apply 1 to 1½ tbs. per acre (1 to 2 lbs. in Arizona and California) when cotton least 12" tall (at least 20" tall for Pima S-2). For control of germinating weed seedlings, apply to beneath cotton plants and between rows immediately after last cultivation. In irrigated cotton, best control is obtained if the field is irrigated within 3 to 4 days after application, thoroughly wet the surfathe ground over the row to carry the herbicide into the root zone of germinating weeds. Alternatively control of emerged annual weeds (up to 4" in height) at tay by time, make a single application in comit tion with Surfactant WK (1 pt. per 25 gals, spray), or use ½ to ¾ lb. "Karmex" (plus surfactant) per acre repeat later if needed.

Replanting: If initial seeding fails to produce a stand, cotton may be replanted in soil treated prepla preemergence with "Karmex", alone or following "Treffan". Wherever possible, avoid disturbing origibed. If necessary to rework soil before replanting, use shallow cultivation such as discoing, do not relis move soil into the original drill area. Plant seed at least 1" deep. Do not retreat field with a second prepor preemergence application during the same crop year as injury to the crop may result. Subsequent Crops:

"Karmex"—Type of Application	Crops That May Follow Treated Cotton		
Band preemergence or postemergence	Any crop 4 months after fast application.		
Band preemergence plus postemergence or. Broadcast preemergence (and preplant) or. Broadcast preemergence plus band postemergence	or forage sorghums nor grass sorghums) the n		
Elbadess posteriergence (lay by)	Cotton, corn, grain sorghums (not sorgos or fora sorghums nor grass sorghums) the next spring. Do n replant treated areas to any other crop within one ye after last application as injury to subsequent cro		

For subsequent crops in fields where "Trellan" is used, follow instructions on "Trellan" label.

may result

Continued on reverse





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Historical from front side

SEED CROPS (Perennial): Except as noted, apply only to established plantings at least 1 /ear

Colorado, Kansas, New Mexico and Oklahoma: On sand bluestem, side oats grama and switchgrass, aprily 2 to 3 lbs. per acre during the dormant period shortly before weed seedlings emerge. Do not apply after crop begins growth in the spring as crop injury may result. In fields where ash residues have accumulated from burning straw, use 3 lbs. per acre; spread unburned chaff or straw with a harrow or chopper before application.

Western Oregon: On alta fescue, Astoria bentgrass, Highland bentgrass, Kentucky bluegrass (Merion bluegrass) and orchardgrass, apply 2 to 4 lbs. per acre between October 1 and November 15. In fields where ash residues have accumulated from burning straw, use 3 to 4 lbs. per acre; spread unburned chaff or straw with a harrow or chopper before application. If perennial velvetgrass (Holcus fanatus) is a problem, use 4 lbs. per acre. For best results, apply as soon as possible after fall rains start. Established weeds (beyond 2 to 4 leaf stage) should be removed prior to treatment.

Well established vigorous stands of spring-planted alta fescue, Kentucky bluegrass and orchardgrass may be treated the following fall provided the crop is planted before April 1 and treatment is not applied before October 15; use 2 lbs. per acre.

Oregon: For use in newly planted bentgrass, Chewing fescue, Kentucky bluegrass, perennial ryegrass, orchardgrass and tall fescue. During planting operation, spray Aqua Nu-Char† or Gro-Safe†† or other suitable brands of activated charcoal as a 1" band on soil surface at rate of 300 lbs. per acre (broadcast basis; equivalent to 15 lbs. per acre of crop where row spacing is 20"). Mount nozzles to apply directly over seed rows to prevent crop injury. Follow with "Karmex" as a single broadcast spray at rate of 2½ to 3 lbs. per acre; apply as soon as possible after planting but before crops or weeds emerge and before rains or sprinkler irrigation. Fall or spring plantings may be treated; best results usually occur with early fall plantings. Treatment will not control downy brome or wild oats.

TReg. trademark of Westvaco Corp
TT Reg. trademark of ICt United States Inc.

OATS (Drill-Planted): Do not replant treated areas to any crop within one year after last application as injury to subsequent crops may result.

Spring Oats—Idaho, Eastern Oregon, Eastern Washington: Use in areas where average annual rainfall exceeds 16". Make a single application of 1 to 1½ lbs. per acre after planting, either before or after oats emerge but within 6 weeks of planting. Best results are usually obtained when application is made 3 to 4 weeks after planting. Apply before weeds are 3" to 4" tall.

Winter Oats and Mixtures with Peas or Vetch—Western Oregon and Western Washington: Make a single application of 1½ to 2 lbs. per acre as soon as possible after planting but before emergence of the crop

- PEPPERMINT—Pacific Northwest: Apply 3 lbs. per acre just after the last cultivation in the spring prior to emergence of peppermint. Do not apply to newly planted (less than 1 year) nor to emerged peppermint as injury may result.
- **RED CLOVER—Western Oragon:** Make a single application of two pounds per acre on established red clover stands (at least 9 months). Apply "Karmex" when red clover is dormant (October 15 to December 15). Do not apply to seedling red clover, and do not replant treated area to any crop within one year after (ast application.

Treatment will control annual weeds such as bluegrass, chickweed, hawksbeard, rattail fescue, rye grass, and velvet grass.

SORGHUM (GRAIN)—Southwestern States: Apply ¼ to ½ lb. per acre; add 1 pt. Surfactant WK per 25 gals. of spray. Apply as a directed postemergence broadcast or band spray after sorghum is 15" tall to control weeds 2" to 4" in height. DO NOT SPRAY OVER TOP OF SORGHUM. Use the lower rate on broadleaved weeds up to 2" tall; use the higher rate on grasses up to 2" and broadleaved weeds up to 4" tall. When the lower rate is used, a second application may be made if needed provided the amount applied in one crop year does not exceed ½ fb, per acre. Treatment of weeds under drought stress is usually ineffective.

Do not replant treated areas to crops other than cotton or corn within 4 months following band treatment and 6 months following broadcast treatment as crop injury may result.

BUGARCANE: To prevent possible crop injury on new cane varieties, tolerance to "Karmex" should be
determined prior to adoption as field practice. Do not treat sugarcane growing on thinly covered subsoils or
rocky areas as crop injury may result. Temporary chlorosis of the crop may result from application over
amerged cane; to minimize chlorosis, use directed postemergence sprays.

Florida: Presmergence—For high organic soils, apply 2 to 4 lbs. per acre as a broadcast or band spray prior to weed emergence after planting or after harvesting plant crop (for ration crop). Postemergence—Make 1 or 2 applications of 2 lbs. per acre as needed by directed spray inter-row. Afternatively, for panicum control, make up to 3 applications of ½ to 1 lb. per acre as a directed spray after cane has emerged but before panicum exceeds 2" in height; add 1 qt. Surfactant WK per 100 gals. of spray. Adjust nozzles to spray beneath cane plants and between rows to cover weed foliage and to minimize contact of cane leaves with spray or drift. Do not apply more than 6 lbs. total per acre between planting (or rationing) and harvest

Hawaii and Puerto Rico: Apply 4 to 8 lbs. per acre as a broadcast spray prior to weed emergence after plant in the property of the perfect of

be timed to activate ther broide. Established perennial weeds require other special control procedures. De not apply under cities trees that have been subjected to freezing within 6 months.

Arizona (except Yuma area) and California (except Imperial and Coachella Valleys): Apply 3 to 4 lbs. year acre shortly after grove has been laid-up in final form (nontillage program) in late fall or early winter. Alternatively, apply 2 lbs. per acre in October or November and repeat at the same rate in March or April. Subsequent annual applications of 2 to 3 lbs. per acre will usually give adequate weed control.

Florida and <u>Peurto Rico</u>: Make a single application of 4 to 8 lbs. per acre, or apply 3 to 4 lbs. per acre tollowed by the same rate 4 to 6 months later. On bearing citrus, apply any time when seasonal rains are expected; on nonbearing trees, apply when winter banks are pulled down.

For cor trol of guineagrass, loosestrife, maidencane, paragrass, primrose willow and seamyrtle in ditches adjacent to citrus groves, use 1 lb. per 1000 sq. ft. (40 lbs. per acre) in sufficient water (min. 4 gals. per 1000 sq. ft.) to provide thorough and uniform coverage. Apply in the spring before weed growth starts or after removal of vegetation. Repeat treatment on a spot basis to control hard-to-kill species such as guineagrass. In bedded groves, do not treat water furrows between the beds as injury to the trees may result.

Texas: Apply 2 to 4 lbs. per acre for annual weeds; use 4 to 6 lbs. per acre for control of johnsongrass seedlings. Best results accompany application in the spring; well established weeds should be eliminated by cultivation prior to treatment.

GRAPES: Apply only to established vineyards (at least 3 years old) as a band treatment to grape rows.
 On soils low in clay or organic matter (1 to 2%), severe plant injury may result if heavy rainfall or more than one inch of irrigation occurs soon after treatment. This risk must be assumed by the user.

East of the Rocky Mountains: On soils low in clay or organic matter (1 to 2%), apply 2 to 3 lbs. per acre; on soils high in clay or organic matter, apply 3 to 6 lbs. per acre. Apply in the spring just prior to germination and growth of annual weeds.

West of the Rocky Mountains: Apply in November, December or January. For initial treatment, apply 3 to 4 lbs. per acre; subsequent annual applications of 2 lbs. per acre will usually give adequate weed control. Do not apply to vines with trunks less than 1½" in diameter as injury may result.

New York and Pennsylvania—Perennial Grasses: Use only in established vineyards (at least 4 years old) for spot control of perennial grasses such as orchardgrass, quackgrass and ryegrass. Apply in the spring as a band treatment to ridged soil (2" to 4" high) under the trellis at the rate of 8 to 12 ibs. per acre. Band width should not exceed 30". Do not apply more than once every 4 years. Use only on heavy soils such as loams silt loams, clay loams. Do not use in areas where grape roots are shallow or exposed because of high bedrock, poor drainage, or erosion as injury to grapes may resulf.

- MACADAMIA NUTS—Hawait: Use only under trees established in the orchard for at least 1 year. Apply
 2 to 6 lbs. per acre immediately after harvest, preferably before weeds emerge; if weeds have emerged, add
 1 pt. Surfactant WK per 25 gals, of spray. Retreat as needed but do not exceed 10 lbs. per acre per year.
- OLIVES—California: Use only under trees established in the grove for at least 1 year. Apply 2 lbs. per acre
 after grove has been laid-up in final form in late October or November; repeat at same rate in March or April.
 Remove weed growth prior to treatment.
- PAPAYAS: Use only under trees established in the orchard for at least 1 year. Apply 2½ to 5 lbs. per acre, preferably before weeds emerge; if weeds have emerged, add 1 pt. Surfactant WK per 25 gals. of spray.
- PEACHES—Use "Karmex" alone, or apply as a tank mixture with "Sinbar".

"Karmex" Alune—Use only under trees established in the orchard for at least 3 years. Apply 2 to 5 lbs. per acre in the early spring before weeds emerge or during the early seedling stage of weed growth. Do not apply within 3 months of harvest; in the Far West, do not apply within 8 months of harvest.

"Karmex" + "Sinbar"—Use only under trees established in the orchard for at least 2 years. Apply either in the spring or after harvest in the fall before weeds emerge or during early seedling stage of weed growth

	Lbs. Product Per Acre					
Soil Texture	1 to 2% ("Karmex			More Than 29 "Karmex		
Sandy loam	1	+	1	112	+	152
Loam, sift loam, sift	11/2	+	11/2	2	+	2
C'ay loam, clay	2	+	. 2	2	+	2

Where crop is grown under furrow irrigation or under raised-berm flood irrigation (trees 4" to 6" above waterline), apply only as a band treatment. Do not treat trees planted in the bottom of irrigation furrow nor trees grown under flat flood or basin irrigation, as injury to trees may result. Where complete were control to harvest is desired, additional weed control measures may be required during the grown season.

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Do not apply more than 3 treatments nor more than 10 lbs. (Puerto Rico) or 12 lbs. (Hawaii) total per acrebetween planting (or ratooning) and harvest. Treated areas may be planted to sugarcane or pineapple one year after last application.

Louisians: Use on plant cane seeded on fallowed ground. Make a single application of 3 to 3% lbs. per acre at either of the following times. Fall Treatment (August through October)—Treat a 2 ft. band over the row after planting of cane, but before weeds or cane emerge. Spring Treatment (January through April)—if shaving and off-barring are practiced, treat a 2 ft. band over the row before weeds or cane emerge.

WHEAT, WINTER (Drill-Planted): Crop injury may result where severe winter stress, disease or insect damage follows application; winter-sensitive varieties such as McDermid and Hyslop may be less tolerant of "Karmex" than winter-hardy varieties such as Gaines and Nugaines. Crop injury may also result from failure to observe the following: Do not use on sand or loamy sand soils, nor on gravelly or sandy loams low in organic matter (less than 1%), nor on thinly covered or exposed subsoil areas (clay knobs); do not treat wheat planted less than 1" deep; do not treat wheat where winter climatic conditions have caused "heaving" of plants; do not treat wheat plants lacking in vigor due to poor emergence, insect damage, disease, high alkalinity or other causes; do not apply after wheat has reached the "boot" stage of maturity; do not use with surfactants, or nitrogen solution. Do not replant treated areas to any other crop within 1 year after last treatment (except as noted) as injury to subsequent crops may result.

Idaho, Oragon and Washington—East of Cascade Range:

Areas Where Average Annual Rainfall Exceeds 16 Inches: Make a single application of 1 to 1½ lbs. per acre. Fall Treatment: For early fall-planted wheat (seeded before September 10), apply 3 to 6 weeks after planting but before weeds are 3" to 4" tall. Treatment after October 1 has generally given best results. Application should not be made after soil freezes in the fall. Wheat planted in late October should not be treated until the following spring. Spring Treatment: Apply as soon as wheat starts to grow in the spring. Treatment made prior to April 10 will usually give good results provided weed growth is less than 4" tall. Application later than May 1 may give poor results.

Alternatively, make a single application of ½ to 1 lb. "Karmex" plus ½ lb. bromoxynil per acre as a tank mixture, either in the fall after wheat has emerged but before soil freezes or in the spring as soon as soil thaws; apply before weeds are 2" tall or across.

Areas Where Average Annual Rainfall is 10 to 16 Inches: After wheat is planted in the fall, make a single application of 1 to 1½ lbs. per acre when sufficient moisture is available to germinate wheat seed. Apply before soil freezes and before weeds are 2" tall. Application later than March 1 may give poor results.

Note—If fall-planted wheat fails to grow due to winter kill or adverse growing conditions after fall treatment, only fields treated before November 1 may be replanted to spring wheat. Spring wheat should not be planted before April 1, and only after deep discing and plowing to a depth of 4" to 6" prior to planting. Do not retreat field with a second application during the same crop year as injury to the crop may result.

Oregon and Washington—West of Cascade Range: Make a single application of 1½ to 2 lbs. per acre as soon as possible after planting; if wheat and weeds have emerged, apply before weeds are 3" to 4" tall. Alternatively, apply a tank mixture of "Karmex" plus bromoxynil as detailed above for "East of Cascade Range".

Other Areas: Make a single application in the spring as soon as wheat (fall-planted) starts to grow and before weeds are 2" tall. Application later than May 1 may give poor results.

Central Plains and Midwest: Use 1 to 2 lbs. per acre.

Kansas, Oklahoma and Texas: Do not use on sand or sandy foam soils. Use 1 lb. per acre on silt and silt loam soils and 1½-2 lbs. per acre on clay, clay loam, and silty clay loam soils.

Northeast: Use 1 to 11/2 lbs. per acre.

• FRUIT AND NUT CROPS

(See Soil Limitations)

•Unless otherwise directed, make a single application per year as a directed spray, avoiding contact of foliage and fruit with spray or drift. Do not graze livestock in treated orchards or groves.

APPLES: Use "Karmex" alone, or apply as a tank mixture with Du Pont "Sinbar" Herbicide.

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treatment may be made in winter (December through February), or apply 2 lbs. per acre as a postharvest treatment followed by 2 lbs. in the spring.

"Karmex" + "Sinbar"—Use only under trees established in the orchard for at least 2 years. Apply either in the spring or after harvest in the fall before weeds emerge or during early seedling stage of weed growth

		• , • • • • • • • • • • • • • • • • • •
	Lbs. Pro	oduct Per Acre
Soil Texture	1 to 2% Organic Matter "Karmex" + "Sinbar"	More Than 2% Organic Matter "Karmex" + "Sinbar"
Sandy loam		
Lance wilt loam, with		2

application in the lander op representation of the per active par year. Also but reflect repairs 25 gals, spray micture to improve control of small, emerged weeds.

Where crop is grown under furrow irrigation or under raised-berm flood irrigation (trees 4" to 6" above waterline), apply only as a band treatment. Do not treat trees planted in the bottom of irrigation furrows, nor trees grown under flat flood or basin irrigation, as injury to trees may result. Where complete weed control to harvest is desired, additional weed control measures may be required during the growing season.

- PEARS: Use only under trees established in the orchard for at least 1 year; do not treat varieties grafted or full-dwarf root stocks. Apply 4 lbs. per acre in the spring (March through May). In the Far West, treatment may be made in winter (December through February), or apply 2 lbs. per acre as a postharvest treatment followed by 2 lbs. in the spring.
- PECANS: Use "Karmex" alone or apply as a tank mixture with "Sinbar," Make a single band or broadcast application as a directed spray using a minimum of 30 gals, of water per acre. Apply in the spring before weeds emerge or during the early seedling stage of growth.

	L	bs. Product Per	Acre		
Soli Texture	"Karmex" Alone*	·OR·	Tank Mixture "Karmex" + "Sinbar"		
Sandy loam	2		11/2	+	. 11/2
Loam, silt loam, sill	. 3		134	+	124
Clay loam, clay	4		2	+	2

^{*}Use only on trees established in the grove for at least 3 yrs, and on soils with at least 12% organic matter

Note: Do not use on eroded areas where subsoil or roots are exposed, nor on trees that are diseased or tacking in vigor or on trees planted in irrigation furrows as injury to the trees may result.

- PINEAPPLE—Hawaii and <u>Florida</u>: Apply 4 to 8 lbs. per acre as a broadcast spray just before or immediately after planting but prior to weed emergence. Use 4 lbs. per acre after harvesting plant crop (for ration crop). For plant crop only, a second and third broadcast or interspace application may be made prior to differentiation at the rate of 2 lbs. per acre at intervals of not less than 2 months Additional applications to plant crop may be made as needed to interspace only using 2 lbs. per acre Do not apply more than 3 broadcast sprays (maximum 12 lbs. per acre) prior to differentiation not more than 16 lbs. total per acre per plant crop. Treated areas may be planted to pineapple or sugarcane 1 year after last application.
- WALNUTS (English)—California: Use only under trees established in the orchard for at least 1 year. As an initial treatment, apply 3 to 5 lbs. per acre after the orchard has been faid up in final form (nontillage program) in late fall or early winter; retreat annually with 2 to 3 lbs. per acre. Alternatively apply 2 lbs. per acre in October or November and repeat at same rate in March or April.

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• ORNAMENTAL CROPS

(See Soil Limitations)

- ORNAMENTAL BULB CROPS (Bulbous Iris, Narcissus)—Western Washington: Make a single application of 4 lbs. per acre. Apply after planting but no later than 4 weeks prior to bulb emergence (usually late September or October). Do not replant treated areas to any crop within 1 year after last application as injury to subsequent crops may result.
- e PLUMOSUS FERN—Florida: Hand weed and mow fern; then make a single application of 3 lbs. per acre within 3 to 5 days. Do not cultivate or disturb soil after application as crop injury may result. Treat only established stands at least 1 year old.
 - ash, honeysuckle, Fonderosa pine, redcedar, Russian olive and Siberian elm. Use 2½ to 5 lbs. per acre apply as a band 4 ft. wide in the tree row (2 ft. on each side of row). For example, 1 oz. "Karmex" (4 leve tablespoonfuls) treats 135 ft. of tree row (2 ft. on each side of row) at the rate of 5 lbs. per acre. Apply as a directed spray in early spring before weeds emerge and before trees leaf out. Do not apply to foliage o trees, nor under trees growing in low areas as injury to the trees may result.

NON-CROP WEED CONTROL

"Karmex" is an effective herbicide for the control of many annual and perennial grasses and herbaceou woods on non-cropland are with we have profitted is desired. The degree of control and duration of effective

^{**}Use on trees established in the grove for at least 1 yr, and on soils with at least 1% organic matter

treatment may be made in winter (December through February), or apply 2 lbs. per acre as a postharvest treatment followed by 2 lbs. in the spring.

"Karmex" + "Sinbar"—Use only under trees established in the orchard for at least 2 years. Apply either in the spring or after harvest in the fall before weeds emerge or during early seedling stage of weed growth.

Soli Texture	Lbs. Product Per Acre	
	1 to 2% Organic Matter "Karmex" + "Sinbar"	More Than 2% Organic Matter "Karmex" + "Sinbar"
Sandy loam · · · · · · · · ·		11/2+ 11/2
Loam, silt loam, silt	11/4+ 11/4	2+2
Clay loam, clay	2¥2	2+2

Where crop is grown under furrow irrigation or under raised-berm flood irrigation (trees 4" to 6" above waterline), apply only as a band treatment. Do not treat trees planted in the bottom of irrigation furrows, nor trees grown under flat flood or basin irrigation, as injury to trees may result. Where complete weed control to harvest is desired, additional weed control measures may be required during the growing season.

Georgia—Apply 2 to 3 lbs. per acre in the spring. Repeat application in the fall but do not use more than 4 lbs. per acre per year. Add DuPont Surfactant WK at 1 pint per 25 gals. spray mixture to improve control of small, emerged weeds.

BANANAS AND PLANTAINS—New Plantings: To control annual weeds, apply 1½ to 3 lbs. per acre

after planting but before weeds emerge. Do not apply to loose soil directly over the planting material. Established Plantings: For control of annuals and for top-kill of perennials such as bermudagrass, bird-seed grass and guineagrass, apply 3 to 6 lbs. per acre plus 1 pt. Surfactant WK (or suitable equivalent) per 25 gals, of spray; avoid contact of plants with spray or drift as injury may result. When tall, dense weed growth is present, remove weed growth before application. If application is made to soil free of weeds, omit the surfactant from the spray. Repeat treatment as needed, but do not apply more often than 6 week intervals nor more than a tot-1 of 12 lbs. per acre (broadcast basis) in a 12-month period.

Note: Do not replant treated areas to any crop within 2 years after last application as injury to subsequent crops may result, except that sugarcane or pineapple may be planted one year after last application.

BLUEBERRIES, CANEBERRIES AND GOOSEBERRIES: Use only in helds which have been established for at least 1 year. Do not apply to berries interplanted with fruit trees; do not apply to plants whose roots are exposed as injury may result. Apply as a band treatment at base of canes or bushes; for spring application, apply before germination and growth of annual weeds

Georgia-Blueberries

Apply 1½ to 2 lbs. per acre in the spring and repeat treatment after harvest in the fall Add DuPor. Surfactant WK at 1 pint per 25 gals, spray mixture to improve control of small, emerged weeds

Indiana, Michigan and Ohio—Blueberries: Apply 2 to 4 tos, per acre in 1 ite spring, alternatively, apply 2 tos per acre in the fall and repeat at same rate in the spring. Raspberries: Apply 3 lbs. per acre in the spring. Massachusetts—Blueberries: Apply 2 lbs. per acre in late spring.

New Jersey-Blueberries: For control of winter annuals, apply 2 lbs. per acre in October, November of December, or a single application of 2½ lbs. per acre may be applied in early to mid spring.

California—Raspberries, Blackberries, Boysenberries, Dewberries and Loganberries: For control of winter annuals, apply 2 lbs. per acre in October or November; repeat at same rate in late spring to control summer annuals. A single application of 3 lbs. per acre in January or February will control both winter and summer annuals in some areas, but the separate fall and spring schedule is preferred.

Western Oregon and Western Washington—Blueberries, Caneberries and Gooseberries: Use same schedule as recommended for California.

• CITRUS: Use only under trees established in the grove for at least 1 year. Time application as indicated for ispecific areas, except application may be made any time of the year where sprinkler or flood irrigation can

ash, hone; suckle, Ponderosa pine, redicedar, Russian olive and Siberian elm. Use 2½ to 5 lbs. per acre; apply as a band 4 ft. wide in the tree row (2 ft. on each side of row). For example, 1 oz. "Karmex" (4 level tablespoonfuls) treats 135 ft. of tree row (2 ft. on each side of row) at the rate of 5 lbs. per acre. Apply as a directed spray in early spring before weeds emerge and before trees leaf out. Do not apply to foliage of trees, nor under trees growing in low areas as injury to the trees may result.

NON-CROP WEED CONTROL

"Karmex" is an effective herbicide for the control of many annual and perennial grasses and herbaceous weeds on non-cropland areas where bare ground is desired. The degree of control and duration of effect will vary with the amount of chemical applied, soil texture, rainfall and other conditions.

"Karmex" may be used as a preemergence treatment at any time of the year except when ground is frozen, provided adequate moisture is supplied by rainfall or artificial means to activate the herbicide. Best results are obtained if application is made to the soil shortly before weed growth begins. If dense growth is present, remove tops and spray the ground.

Increased contact activity on established weeds may be obtained by the addition of Du Pont Surfactant WK at the rate of 2 qts. per 100 gals. of spray mixture. Apply as a drenching spray to actively growing weeds during warm weather when daily temperature will exceed 70°F.

Except for small areas, use a fixed-boom power sprayer properly calibrated to insure a constant rate of application. Mix proper amount of "Karmex" into volume of water necessary to obtain uniform coverage; if Surfactant WK is used, difute with 10 parts of water and add as last ingredient to nearly full tank. Material must be kept in suspension at all times. Agitate by mechanical or hydraulic means in the spray tank; if by pass or return line is used, it should terminate at bottom of tank to minimize foaming. Openings in screens should be equal to or larger than 50 mesh.

General Weed Control: To control most weeds for an extended period of time on non-cropland such as utility, highway, pipeline and railroad right of ways, petroleum tank farms, lumberyards, storage areas, industrial plant sites, and around farm buildings—apply 5 to 20 lbs. per acre to control most annual weeds. Use 20 to 60 lbs. per acre for perennial weeds; additional treatment may be required where a longer period of control is desired or when hard-to-kill, deep-rooted perennial weeds such as johnsongrass are present. In two rainfall areas, "Karmex" may not provide satisfactory control of deep-rooted perennial weeds.

For weed control on small areas, use one half cupful of "Karmex" per 100 sq. ft. for a dosage of approximately 50 ibs. per acre.

Irrigation and Drainage Ditches: Apply 5 to 20 lbs. per acre to control most annual weeds, use 20 to 60 lbs. per acre to control both annual and perennial weeds. Apply only when water is not in the ditch. For irrigation ditches, apply during the non-crop season, and when ditch is not in use. To minimize movement of "Karmex" with irrigation water (to avoid possible crop injury), it is essential that the herbicide be fixed in the soil by moisture. Apply before expected seasonal rainfall (if possible when soil in the ditch is still moist). Following treatment, if rainfall has not totated at least 4 inches, fill ditch with water and allow to stand for 72 hours; drain off and waste remaining water before using ditch. Do not treat any ditch into whic's roots of trees or other desirable plants may extend as injury may result.

STORAGE AND DISPOSAL

STORAGE: Store product in original container only, away from other pesticides, fertilizer, food, or feed

DISPOSAL: Do not contaminate water, food, or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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Surfactant WK at 1 pint per 25 gals, spray mixture to improve control of small, emerged weeds.

Indiana, Michigan and Ohio-Blueberries: Apply 2 to 4 lbs per acre in late spring; alternatively, apply 2 lbs per acre in late spring; alternatively, apply 2 lbs per acre in the spring. Respherries: Apply 3 lbs, per acre in the spring.

New parts. Histories: For control of winter annuals, apply 2 bs. per acre in October, November or December, or a single application of 2½ lbs. per acre may be applied in early to mid spring.

California—Raspberries, Blackberries, Boysenberries, Dewberries and Loganberries: For control of winter annuals, apply 2 lbs. per acre in October or November; repeat at same rate in late spring to control summer annuals. A single application of 3 lbs. per acre in January or February will control both winter and summer annuals in some areas, but the separate fall and spring schedule is preferred.

Western Oregon and Western Washington—Blueberries, Caneberries and Gooseberries: Use same schedule as recommended for California.

CITRUS: Use only under trees established in the grove for at least 1 year. Time application as indicated for specific areas, except application may be made any time of the year where sprinkler or flood irrigation can

stand for 72 hours; drain off and waste remaining water before using ditch. Do not treat any ditch into which roots of trees or other desirable plants may extend as injury may result

STORAGE AND DISPOSAL

STORAGE: Store product in original container only, away from other pesticides, fertilizer, food, or feed.

DISPOSAL: Do not contaminate water, food, or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or

Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.