03-04-2004





U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (H7505C) 401 "M" St., S.W. Washington, D.C. 20460 EPA Reg. Number: 1812-320

Dalla of Issuance:

Term of Issuance:

Unconditional

Name of Pesticide Product:

Lorox DF Herbicide

NOTICE OF PESTICIDE:

Registration
x Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Griffin, LLC c/o DuPont Crop Protection Stine-Haskell Research Center P.O. Box 30

Newark, DE 19714-0030

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

Based on your response to the Reregistration Eligibility Document, EPA has reregistered the product listed above, with the following provisions:

- 1. At the beginning of the list of Personal Protective Equipment (PPE) within the Precautionary Statements, add the statements, "Some of the materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.
- 2. In the list of Personal Protective Equipment (PPE) for applicators and other (other than mixers and loaders) handlers must wear:, revise the current glove statement to read "Chemical-resistant gloves made of any waterproof material such as nitrile, butyl, neoprene, and/or barrier laminate.
- 3. Revise the last sentence of your Environmental Hazards section to read "Do not contaminate water when cleaning of equipment or disposing of equipment washwaters or rinsate.
- 4. In the Agricultural Use Requirements box, revise the current glove requirement to read "chemical resistant gloves made of any waterproof material."
- 5. In the Non-Agricultural Use Requirements box, add a statement similar to "Do not enter or allow unprotected persons to enter treated areas until the sprays have dried."
- 6. Under "Storage and Disposal add a subheading "Pesticide Storage."

Signature of Approving Official:

Date:

3-4-04

EPA Form 8570-6

- 7.. Based on available residue data, a one (1) day PHI must be added to the directions for use for asparagus—Directed Seeded or Newly Planted Crowns.
- 8. Modify the directions for use for asparagus to make it clear that the maximum combined application rate is 4.0 lb ai/A /season when more than one type of application (preemergence, postemergence, or application st the fern stage) is made.
- 9. Please note the available residue data support application of linuron to asparagus in all areas of the US, therefore, you may remove state restrictions.
- 10.. Based on the available residue data, a 14-day PHI must be added to the directions for use of carrots-Postemergence Application NY.
- 11. Based on available residue data, PHIs of 45 days east of Rocky Mountains and 67 days west of the Rocky Mountains must be added to the directions for use for post-transplant application to celery.
- 12. Based on the available residue data, a PHI of 57 days must be added to the directions for use for directed postemergence application to field corn.
- 13. The statement "Do not graze or feed sorghum forage or silage from treated fields to dairy animals" must be removed from the directions for use for sorghum.
- 14. Based on available data, a PHI of 75 days must be added to the directions for use for directed postemergence application to sorghum.
- 15. Delete all references to tank-mixes with Surflan (oryzalin) from the directions for use for soybeans.

Enclosed is a copy of your label stamped "Accepted With Comments". This action is taken under the authority of section 4(g)(2)(C) of the Federal Insecticide, Fungicide and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain registration of your product.

Submit two (2) copies of final labeling incorporating the above changes for our files.

with COMMENTS In EPA Letter Datedt MAR - 4 2004

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No.

Lorox® DF Herbicide

Dry Flowable

AC1	Π	Ε	IN	GR	ED	IEI	VT:

Linuron 3-(3, 4-dichlorophenyl)-1-methoxy-1-methylurea	50.00%
INERT INGREDIENTS:	
TOTAL	

KEEP OUT OF REACH OF CHILDREN

CAUTION

***************************************	FIRST AID
IF SWALLOWED	 Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes.
IF IN EYES	 Hold eye open and rinse slowly and gently with water for 15 – 20 minutes.
•	 Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
	Call a poison control center or doctor for treatment advice.
IF INHALED	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
	Call a poison control center or doctor for further treatment advice.

For medical emergencies involving this product, call toll free 1-888-324-7598. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Griffin LLC Valdosta, GA 31601 EPA Reg. No. 1812-320 EPA Est. No. 37429-3A-1

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NET	CON.	TENTS:	

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and handlers (except mixers and loaders) must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves, such as nitrile, natural rubber, or neoprene
- Chemical-resistant footwear

Mixers and loaders must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical resistant footwear
- Chemical resistant gloves, such as nitrile, natural rubber, or neoprene
- Chemical resistant apron

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering controls statement:

When handlers use closed systems, enclosed cabs, in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240 (d)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

[The following text is only applicable to Lorox 50DF that is packaged in water-soluble packets]

Water-soluble packets when used correctly qualify as a closed loading system under the WPS. Handlers handling this product while it is enclosed in intact water-soluble packets may elect to wear reduced PPE of long-sleeved shirt, long pants, shoes, socks, and chemical resistant gloves.

When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

USER SAFETY RECOMMENDATIONS

Users should:

-Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
-Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put officient clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where weather conditions favor drift from areas treated. Do not containing the water when disposing of equipment wash waters or rinsate.

Ground Water Advisory: This chemical is known to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

Surface Water Advisory: Linuron may contaminate surface water through spray drift or under certain conditions, from surface runoff into adjacent surface water bodies (ponds, lakes, streams, etc.) For several weeks post-application, linuron has a high potential to runoff when applied to fields with any of the following conditions: sloping land draining into nearby surface waters; very poorly to somewhat poorly drained soils; areas with extremely shallow ground water; frequently flooded areas; fields with surface water canals or ditches; and highly erodible land cultivated with poor management practices.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves
- Shoes and socks
- Chemical-resistant headgear for overhead exposure

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses. Noncrop weed control is not within the scope of the Worker Protection Standard.

STORAGE AND 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.

PESTICIDE DISPOSAL Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Plastic Containers - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Paper and Plastic Bag: 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.

GENERAL INSTRUCTIONS AND INFORMATION

Lorox DF is a dispersible granule to be mixed in water and applied as a spray for selective control of weeds on certain crops and for non-selective weed control on non-cropland areas. Lorox DF is non-corrosive to equipment, non-flammable and non-volatile.

To control susceptible weed seedlings for an extended period of time, apply Lorox DF to soil before weed emergence. The degree of control and duration of effect will vary with the amount of chemical applied, soil texture, rainfall and other conditions. Higher dosages are needed for soils high in clay or organic matter. Soil low in clay or organic matter will require lower dosages to obtain equivalent herbicide performance. Since moisture is needed to activate Lorox DF, rainfall or irrigation is needed within 2 weeks of application.

When using Lorox DF to control emerged weeds best results are obtained on succulent weeds growing in temperatures of 70°F or higher with high humidity. Where recommended, addition of a surfactant to the spray increases contact effects of Lorox DF.

It is suggested that growers limit their first use to small areas as the effect of Lorox DF varies with soils, uniformity of application and environmental conditions. Follow all label directions on this and any product used in mixtures.

GRASSES AND BROADLEAF WEEDS CONTROLLED BY LOROX DF

PREEMERGENCE USE (GERMINATING WEEDS)

Lorox DF, at recommended rates, controls annual weeds such as:

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Broadleaf Weeds	Grasses	u C	sing do
Carpetweed	Barnyardgrass	5.1.11.5	
Chickweed	(watergrass)	* *	ab birahir. €
Dayflower, common	Canarygrass	୦୫୯-ଓ ଅଟେ ଅନ୍ତ ଅଟେମ୍ବର	e e e
Florida beggarweed	Crabgrass	40000	^: # @ E
Florida pusley (Florida purslane)	Foxtail		ର ଜଣ୍ଡ ଜଣ୍ଡଣ
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Broadleaf Weeds (Continued)

Galinsoga
Nettleleaf goosefoot
Lambsquarter
Mustard
Pigweed
Purslane (common)
Radish, wild
Ragweed (common)
Shepard's-Purse
Smartweed (Pennsylvania)

Grasses (Continued)

(including giant) Goosegrass Fall panicum

Lorox DF will provide partial control of the following:

Annual morningglory Cocklebur Prickly sida (teaweed) Sicklepod Velvetleaf (buttonweed)

Lorox DF will not control established perennials such as bermudagrass, Canada thistle, field bindweed, johnsongrass, and purple nutsedge. The lower dosage rates are effective on coarser soils and the higher rates on finer soils and on the more resistant seedling weeds. Sufficient moisture (½ " to 1" on moist soils; 1" to 2" on dry soils) in the form of rainfall or sprinkler irrigation is necessary after treatment to carry the chemical into the root zone of germinating weeds; best results are obtained when this occurs within two weeks after application. If heavy rainfall occurs soon after application, injury to crop may result.

Lorox DF applied preemergence, before emergence of soybeans, asparagus, carrots, corn (field), parsnips, potatoes, and weeds, is an effective procedure because susceptible weeds are controlled in an early, vulnerable seedling stage before they compete with the crop. With favorable moisture conditions, Lorox DF continues to control weeds for some time as the crop becomes better able to compete. Should weed seedlings begin to break through the preemergence treatment in significant numbers, secondary weed control procedures should be implemented; these include cultivation and postemergence herbicide application.

A good seed bed must be prepared before application of Lorox DF as crop injury may result if application is made to ground which is cloddy or compacted resulting in improperly planted seed. Plant seed to depth specified. Surface of the soil should not be cultivated or disturbed after application of Lorox DF and before emergence of the crop as weed control may be redûced and crop injury may result. However, if moisture is insufficient to activate the herbicide, a shallow cultivation (rotary hoe preferred) should be made after emergence of row crops while weeds are small enough to be controlled by mechanical means. Deep cultivation reduces the effectiveness of Lorox DF.

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POSTEMERGENCE USE (EMERGED SEEDLING WEEDS)

Lorox DF, at recommended rates, controls weeds such as:

Broadleaf

Annual morningglory

Carpetweed

Cocklebur (common)

Dayflower (common)

Dog Fennel

Fiddleneck (amsinckia)

Florida beggarweed

Florida purslane

(Florida pusley)

Groundsel

Knawel

Lambsquarter

Mustard

Nettleleaf goosefoot

Pigweed

Prickly sida (teaweed)

Purslane (common)

Ragweed (common)

Sesbania

Sicklepod

Smartweed (Pennsylvania)

Velvetleaf (buttonweed)

Wild buckwheat

Grasses

Barnyardgrass

(watergrass)

Broadleaf signalgrass

Canarygrass Crabgrass

Fall panicum

Foxtail (including giant)

Goosegrass Rattail fescue

Ryegrass, annual

Texas panicum

Results of postemergence treatment of emerged weeds vary with rate applied and environmental conditions; best results are obtained on succulent weeds growing under conditions of high humidity and temperatures of 70 degrees F or higher. Addition of a surfactant to the spray (where recommended) increases contact effects of Lorox DF. Application will also provide control of emerging susceptible weed seedlings for an extended period of time

APPLICATION DIRECTIONS

AERIAL APPLICATION IS PROHIBITED

Lorox DF should be used only in accordance with recommendations on this label. Do not exceed 4 pounds per acre per year. Injury to or loss of desirable trees or other plants may result from failure to observe the following:

GROUND APPLICATION: Use a fixed-boom power sprayer calibrated to a constant speed and rate of delivery. Openings in screen should be equal to or larger than 50 mesh. Continuous agitation in the spray tank is necessary to keep the material in suspension. Agitation can be by hydraulic or mechanical means. If a by-pass or return line is used it should terminate at the bottom of the tank to minimize foaming. Avoid overlapping of spray swaths and shut off spray booms while starting, turning, slowing or stopping or crop injury may result.

For preemergence application, use a minimum of 15 gallons of water per acre. For postemergence application, use sufficient volume of water (minimum of 25 gallons per acre) for thorough coverage of weed foliage. Always apply in a manner and under conditions favorable to avoid spray drift.

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CLEANING: Equipment should be cleaned of all traces of Lorox DF immediately after use. Nozzle tips and screens should be removed and cleaned separately. Flush tank, pump, hoses and boom with several changes of water.

Equipment should not be flushed or drained or Lorox DF applied 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. Lorox DF should not be used on home plantings of trees, shrubs or herbaceous plants, lawns, walks, driveways, tennis courts or similar areas. Keep drift of dry powder or spray from desirable plants.

SPRAY PREPARATION: The tank should be ¼ full with clean water. Start agitation system, add Lorox DF and continue adding water. Each component of any tank mix should be added separately while adding water. Surfactant, if used, should be added last when the tank is nearly full. Agitation should continue throughout. If poor mixing should occur with any component, premix the component with two parts water before adding to the spray tank.

RATES: All rates are expressed as broadcast rates; for band treatment, use proportionately less. For example, use 1/3 of the broadcast rate when treating a 14" band where row spacing is 42". Where a range of dosages is given, use the lower rate on coarser soils (low in clay or organic matter) and the higher rate on finer soils (high in clay or organic matter); for postemergence application, use the lower rate on smaller weeds and the higher rate on larger weeds.

SOIL LIMITATIONS: Do not use on sand, loamy sand, gravelly soils or exposed subsoils or on soils containing less than 1% organic matter unless otherwise directed by supplemental labeling for specific crop uses.

REPLANTING: If initial seeding fails to produce a stand, crops registered for the rate of Lorox DF that has been applied may be replanted into the treated area. Thoroughly rework soil before replanting. Do not retreat during the same crop year as injury to the crop may result.

CROP ROTATION RECOMMENDATIONS: Unless otherwise directed, any crop may be planted after 4 months except for cereals where only barley, oats, rye and wheat may be planted.

West of the Rocky Mountains: Carrots or celery may be planted 4 months after the last application. Do not plant any other crop until 1 year after the last application as crop injury may result. In the state of Washington, when applications are made during the months of October, November, and December then these crops can be planted 6 months after application.

FERTILIZER SPRAY MIXTURES: For preemergence application, nonpressure nitrogen or fertilizer solution may be used in the spray mixture unless otherwise directed. Small quantities should be tested for compatibility by the following procedure before full scale mixing.

- 1. Measure one pint of intended spray water or fertilizer solution into a jar.
- 2. Add in the order given, the intended ingredients, shaking after each addition.
 - (a) Surfactants (spreaders), acidifiers, compatibility agents and activators: add 16 to teaspoon for each pint/100 gallons.
 - (b) Dry ingredients (wettable powders, dry flowables): add 1 tablespoon for each pound/100 gallons.
 - (c) Flowables: add 1 teaspoon for each pint/100 gallons.
 - (d) Soluble ingredients: add 1 tablespoon for each pound/100 gallens.
 - (e) Spreaders/stickers: add 1 teaspoon for each pint/100 gallons.

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- 3. The final mixture should be uniform and smooth with no evidence of coagulation occurring. If incompatibility is evident, begin test again with a compatibility agent added first. Six drops is equivalent to 4 ounces per 100 gallons. If this does not smooth the mixture, try higher concentrations and other compatibility agents.
- 4. Allow the mixture to stand undisturbed thirty minutes. If separation occurs, shake and observe the resulting mixture. If mixture is smooth proceed with spraying, provided the tank has good agitation. If mixture is not smooth do not spray. You may try:
 - (a) more compatibility agents.
 - (b) different formulations of the active ingredients (switch from WP or EC to flowable or from WP to EC).
 - (c) change active ingredients; some combinations will not tank mix.

GENERAL CHEMIGATION INSTRUCTIONS

Apply this product only through one or more of the following types of systems: sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set or hand move irrigation system(s). Do not apply this product through any other type of irrigation system.

Crop injury or lack of effectiveness or illegal pesticide residues in the crop can result from the nonuniform distribution of treated water.

If you have any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional, interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

When mixing, fill nurse tank half full with water. Add Lorox DF slowly to tank while hydraulic or mechanical agitation is operating and continue filling with water. Stickers, spreaders, insecticides, nutrients, etc. should be added last. If compatibility is in question, use the compatibility jar test before mixing a whole tank. Because of the wide variety of possible combinations which can be encountered, observe all cautions and limitations on the label of all products used in mixtures.

Lorox DF should be added through a traveling irrigation system continuously or at the last 30 minutes of solid set or hand moved irrigation systems. Agitation is recommended. Shut off injection equipment after treatment and continue to operate irrigation system until Lorox DF has been cleared from the last sprinkler head.

SPRINKLER CHEMIGATION

The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

When mixing, fill nurse tank half full with water. Add Lorox DF slowly to tank while hydraulic or mechanical agitation is operating and continue filling with water. Stickers, spreaders, insecticides, nutrients, etc. should be added last. If compatibility is in question, use the compatibility jar test before mixing a whole tank. Because of the wide variety of possible combinations which can be encountered, observe all cautions and limitations on the label of all products used in mixtures.

Lorox DF should be added through a traveling irrigation system continuously or at the last 30 minutes of solid set or hand moved irrigation systems. Agitation is recommended. Shut off injection equipment after treatment and continue to operate irrigation system until Lorox DF has been cleared from the last sprinkler head.

ASPARAGUS

California, Hawali, Idaho, Maryland, Michigan, Minnesota, New Jersey, (preemergence only) North Carolina, North Dakota, Oregon, Washington & Wisconsin Only

Direct Seeded or Newly Planted Crowns:

Do not exceed 4 pounds total per acre per season with a maximum of 3 applications per year. Do not use surfactant or fertilizer solution in spray mixture.

Preemergence Application: Make a single application of 2 to 4 lbs. per acre after planting seed ½ inches deep in coarse soil and 1 inch deep in fine soils. During planting operation, spray activated charcoal as a 1 inches band on soil surface directly over seed rows at the rate of 300 lbs. per acre (equivalent to 15 lbs. per acre of crop with 20 inches row spacing). Preemergence weed control will be reduced in soils with high organic matter (greater than 5% and peat or muck).

Postemergence Application: Make 1 or 2 applications of 1 to 2 pounds per acre when ferns are in 6 inches to 18 inches stage and weeds are not over 4 inches tall.

Established Beds:

Do not apply within 1 day of harvest. Do not exceed 4 pounds total per acre per season with a maximum of 3 applications per year. Do not use surfactant or fertilizer solution in spray mixture. **Preemergence Application:** Make a single application of 2 to 4 lbs. per acre. Preemergence weed control will be reduced in soils with high organic matter (greater than 5% and peat or muck).

Postemergence Application: Make 1 to 3 applications of 1 to 2 pounds per acre before weeds exceed 4 inches in height. Apply before cutting season or immediately after cutting.

Directed Postemergence Application (Fern Stage): Make a single application of 4 pounds per acre as directed. Spray to base of plants for control of dudain melon.

In California, dudain melon and annual nightshade are controlled.

BULBS

Tulip, Caladium, Calla Lily, Daffodil and Dutch Iris California, Florida

After planting of bulbs, settle the soil with sprinkler irrigation (rainfall will serve the same purpose); then before emergence of plants (bulbs), apply 2 lbs. Lorox DF per acre in a minimum of 20 gallons of water per acre. Treat only once during the growing season.

CARROT

Preemergence Application - California, Florida, Michigan, Minnesota, New Jersey, North Dakota, Ohio Oregon, Washington, and Wisconsin only:

A single application of 1 - 2 lbs. per acre in California, Florida, Minnesota, North Dakota, Oregon, and Washington and 1 - 3 lbs. per acre in Michigan, New Jersey, Ohio, and Wisconsin should be made after planting but prior to carrots emerging. Seed should be planted at least ½ inch deep. The lower rate should be used on lighter soils and the higher rate on heavier soils. Additional postemergence applications may be made as long as the total does not exceed 4 lbs. of Lorox DF per acre per season.

NOTE: To prevent possible crop injury in various varieties of carrots determine tolerance to Lorox DF before adoption as a field practice. Do not apply within 14 days of harvest. **Postemergence - Entire U.S.:**

Apply 1.5 to 3 lbs. per acre as a non-directed spray after carrots are at least 3 inches tall. Apply before annual grasses exceed 2 inches in height and before broadleaf weeds exceed 6 inches in height. Repeat application may be made but do not exceed 4 lbs. Lorox DF per acre (West of Rocky Mountains, do not exceed 3 lbs. Lorox DF per acre). Do not exceed 40 psi spray nozzle pressure as crop injury may result.

NOTE: Because carrot varieties vary in their resistance, determine tolerance to Lorox DF prior to adoption as a field practice to prevent possible crop injury. Do not treat susceptible varieties which show an initial burning of foliage following postemergence treatment with Lorox DF. Do not apply within 14 days of harvest.

Postemergence Application - Alternate Treatment for New York: For control of emerged broadleaf weeds early in the development of the carrot crop, apply 0.25 lb. per acre to carrots having at least one fully developed true leaf and 0.5 lb. per acre to carrots having three or more leaves. A single application applied prior to the five-leaf stage of carrots may not provide adequate season-long control. Multiple applications at 1- and 3-, and 2- and 4-, or 3- and 5-leaf stages will significantly improve weed control. Early crop injury can occur, however the effect should be transitory, with no yield losses attributable to crop injury. At normal rate recommendation, carrots must be at least 3 inches tall at the time of application. Failure to control weeds before this stage of development will result in significant yield losses due to weed competition.

NOTE: The activity of Lorox DF on both carrots and weeds is increased if applied after 3 or more cloudy days. If spraying is done under these conditions, the dosage of Lorox DF must be reduced. Do not apply when the temperature exceeds 85° F. Lorox DF often interacts with other herbicides or insecticides and damages carrots when the chemicals are tank mixed or applied sequentially at close intervals. Several days, preferably a week should elapse between Lorox DF applications and application of insecticides.

Lorox DF may be applied following an application of Stoddard solvent provided treatments are at least one day apart. Stoddard solvent may be applied following application of Lorox DF provided treatments are at least 2 weeks apart. Shorter time intervals between applications may result in crop injury. Do not apply Lorox DF as a tank mixture with Stoddard solvent, surfactants, nitrogen or fertilizer solution, or other pesticides, nor when temperature exceeds 85° F as crop injury may result.

FOR USE ON CARROTS IN CHEMIGATION SYSTEMS IN CALIFORNIA

Preemergence Application: Make a single application of 1 to 2 lbs per acre. Subsequent postemergence application may be made. Trial on a small area to evaluate unanticipated problems is suggested. Injury may potentially occur from this application.

Postemergence Application: Apply 1 ½ to 3 lbs per acre after carrots are at least 3" tall. Apply before grasses exceed 2" in height and before broadleaves exceed 6" in height. Repeat applications may be made.

Precautions: Do not apply within 14 days of harvest. Do not exceed 3 lbs total product per acre per season. Do not make more than 3 applications by any method per acre per season. Do not use surfactant.

CHEMIGATION: Lorox DF can be applied using center pivot, lateral move, solid set or hand move irrigation systems. Do not apply Lorox DF using any other type of irrigation system. Check irrigation systems to ensure uniform application of water to all areas. Failure to apply Lorox DF uniformly may result in crop injury and/or poor weed control. Lorox DF may be mixed in a supply tank with water, fertilizer, or other appropriate agricultural chemicals. Maintain continuous agitation in the injection nurse tanks during application.

For solid set and hand move irrigation systems, apply Lorox DF at the beginning of the set and then apply $\frac{1}{3}$ to 1" of water for activation (sandy soils apply at least $\frac{1}{3}$ ", sandy loams apply at least ½ ", silt soils apply at least ¾ ", clay soils apply at least 1"). For center pivot and lateral move irrigation s systems, apply Lorox DF in ¹/₃ to 1" of water for activation as a continuous injection (sandy soils apply at least 1/3", sandy loams apply at least 1/2", silt soils apply at least 3/4 ", clay soils apply at least 1"). If you have questions about calibrating chemigation equipment, contact State Extension Service specialists, equipment manufacturers, or other experts. If the chemigation equipment needs adjustment, only the custodian responsible for its operation, or someone under the supervision of that custodian, should make the necessary adjustments. Irrigation System Requirements: The irrigation system must contain the following: a functional check valve; vacuum relief valve; a low pressure drain (to prevent water source contamination form backflow; should be located on the irrigation pipeline); functional interlocking controls (to automatically shut-off the pesticide injection pump when the water pump motor stops); a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

The pesticide injection pipeline must contain the following: a functional, automatic, quick-closing check valve (to prevent the flow of fluid back toward the injection pump); a functional, solenoid-operated valve (normally closed) located on the intake side of the injection pump (should be connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is shut down either automatically or manually)

The irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when pesticide distribution is adversely affected by a decrease in water pressure

CHEMIGATION PRECAUTIONS: Distributing treated water in an uneven manner can result in crop injury, lack of effectiveness, or overtolerance pesticide residues in the crop. Therefore, to ensure that the mixture is applied evenly at the recommended rate, use sufficient water, and apply the mixture for the proper length of time. Do not permit run-off during chemigation. Do not apply when wind speed favors drift beyond the area intended for treatment. Do not connect an irrigation system (including greenhouse systems) used for Lorox DF application to a public water system.

CELERY

Post-transplant Application:

Make a single application of 1.5 to 3 pounds per acre in all states except California. In California use 1.5 to 2 pounds per acre. Apply as a non-directed spray after celery is transplanted and established, but before celery is 8 inches tall. Apply before annual grasses exceed 2 inches in height and before broadleaf weeds exceed 6 inches in height. In the Northeast, use only on celery grown on muck soils.

Do not exceed 40 psi spray nozzle pressure, and do not apply when temperature exceeds 85°F nor as a tank mixture with surfactants, nitrogen or fertilizer solution, or other pesticides as injury to the crop may result. Do not replant to crops other than celery or carrots within 4 months after application as injury to subsequent crops may result.

CORN (Field) East of the Rocky Mountains only

Preemergence Application:

Select one of the following herbicide treatments for application as a tank mixture. A single application should be made after planting but prior to crop emergence. Do not exceed 1.5 pounds per acre per season. Seed should be planted at least 1 % inches deep on either flat or raised seed beds only or injury to the crop may result. Do not spray over top of emerged corn.

Lorox DF + Lasso

Pounds of Lorox DF + Quarts of Lasso per acre

	Percent Organic Matter in Soil		
Soil Texture Description	1 to 3%	3 to 6%	
Coarse: Sandy loam	² / ₃ to 1 ½ + 1 ½ to 2	1 1/4 to 1 1/2 + 1 1/2 to 2	
Medium : Loam, Silt loam, Silt, Sandy clay, Sandy clay loam	1 to 1 ½ + 1 ½ to 2	1 ½ + 2 to 2 ¼	
Fine : Silty clay, Silty clay loam, Clay, Clay loam	1 1/4 to 1 1/2 + 2 to 2 1/4	1 ½ + 2 to 2 ¾	

Replanting: Corn or soybeans may be replanted within 4 months. After 4 months, any crop may be planted.

Lorox DF + Ramrod

Pounds of Lorox DF + Quarts of Ramrod (4 lb / gal) per acre

	Percent Organic Matter in Soil		
Soil Texture Description	1 to 3%	3 to 6%	
Coarse: Sandy loam	$^{2}/_{3}$ to $1^{1}/_{3}$ + 4 to 4 $\frac{1}{2}$	$1^{1}/_{3}$ to $1^{1}/_{2}$ + 4 $1/_{2}$ to 5	
Medium : Loam, Silt loam, Silt, Sandy clay, Sandy clay loam	1 ¹ / ₂ + 4 ½ to 5	1 ¹ / ₂ + 5 1/ ₄ to 5 1/ ₂	
Fine : Silty clay, Silty clay loam, Clay, Clay loam	1 ¹ / ₄ to 1 ¹ / ₂ + 5 ½ to 5 ½	1 ¹ / ₂ + 5 ½ to 6	

Replanting: Corn may be replanted within 4 months. After 4 months, any crop may be planted.

Lorox DF + atrazine

Pounds of Lorox DF + Pounds of atrazine 80% per acre

	Percent Or	ganic Matter in Soil
Soil Texture Description	1 to 2%	2 to 5%
Coarse: Sandy Loam	$^{2}/_{3}$ to 1 + $^{1}/_{2}$ to $^{2}/_{3}$	1 to 1 ½ + ² / ₃ to 1 ¼
Medium: Loam, Silt Loam, Silt, sandy Clay, Sandy Clay	1 to 1 ½ + ² / ₃ to 1	1½ + 1 to 1½
Fine: Silty clay, Silty clay loam, Clay, Clay loam	1 ¹ / ₃ to 1 ½ + ¾ to 1	1½ + 1 to 2

Directed Postemergence Application:

A single application as a directed spray should be made after the corn is at least 15 inches high. Do not spray over top of corn. There should be sufficient differential between height of corn and weeds so that the directed spray thoroughly covers all weed foliage without contact of upper leaves or whorl of corn by spray or drift. Such contact may cause crop injury. Early cultivation will aid in achieving proper differential between height of corn and weeds.

Apply 1.25 to 3 pounds Lorox DF per acre. A pint of surfactant for each 25 gallons of spray mixture may be added. Non-pressurized nitrogen solution may be substituted for all or part of the water. On lighter soils (low in clay or organic matter) the lower rate should be used and when weeds do not exceed 2 inches in height. The higher rate should be used on heavier soils (soils high in clay or organic matter) and for weeds up to 5 inches in height.

HYBRID POPLAR

Midwest

Apply 2 to 4 pounds Lorox DF per acre before bud break in the spring. For application after bud break, apply 2 to 4 pounds Lorox DF per acre as a directed spray. Spray should be directed to weed growth and to avoid contact with the poplar plant. Do not spray over the top of the poplar as injury to the plant will result.

Use the lower rate on light soils and higher rate on heavier soils. For best results on emerged weeds, treat at the seedling stage.

More than one treatment may be made but no more than 8 pounds Lorox DF per acre should be applied per year.

PARSLEY

(East of Mississippi River and Texas)

In Texas, use on mineral soils only.

Preemergence Application (Mineral and Muck Soils):

Make a single broadcast application of Lorox DF at a rate of 1 to 3 lbs. per acre after planting, but before the crop emerges. Do not exceed a total of 3 lbs. of Lorox DF per acre per season. Use lower rates on coarse soils and higher rates on heavier soils. Do not apply within 30 days of harvest.

Postemergence Application (Muck Soils Only):

Make a single application of Lorox DF at a rate of 1 lb. per acre to control emerged weeds. Do not exceed a total of 3 lbs. of Lorox DF per acre per season. Apply after parsley has a minimum of 3 true leaves or crop injury may result. Apply when weeds are in the 1 to 3 true leaf stage. Do not apply within 30 days of harvest.

PARSNIP

Preemergence Application:

A single application of 1.5 to 3 lbs. per acre should be made after planting but prior to crop emergence. Seed should be planted at least ½ inch deep.

POTATO

Preemergence Application:

A single application of Lorox DF should be made as a broadcast spray after planting but prior to crop emergence. Seed should be planted at least 2 inches deep. Do not spray over top of emerged potatoes. If beds are to be dragged and/or hilled, apply after the final dragging or hilling operation. Application should be made before grasses are 2 inches tall and before broadleaf weeds are 6 inches tall, preferably just before or when weed seedlings emerge. A pint of surfactant for each 25 gallons of spray mixture can be added if emerged weeds are present. In irrigated areas, best results are obtained when application is made to moist soil, followed within 2 weeks by 1 to 2 inches of sprinkler irrigation (or rainfall). If soil is dry and powdery, irrigate before application and follow with sprinkler irrigation to activate herbicide. Do not use West of Rocky Mountains.

East of Rocky Mountains only:

On sandy loam, silt loam soil with 1 to 2% organic matter (coarser soils) apply 1.5 to 2.5 lbs. of Lorox DF per acre. On silts, clay loams and soils with 2 to 5% organic matter (fine soils) apply 2.5 to 3 lbs. per acre to emerged weeds (before potato emergence).

Northeast:

Use the following tank mix for improved control of annual grasses. Follow directions and precautions on the Dual label also.

Lorox DF + Dual MAGNUM

Pounds of Lorox DF + pints of Dual MAGNUM per acre

	Percent Organic Matter in Soil		
Soil Texture Description	1 to 3%	3 to 5%	
Coarse: Sandy loam	1 to 1 ½ + 1	1 ½ to 2 + 1 ¹ / ₃	
Medium : Loam, Silt loam, Silt, Sandy clay, Sandy clay loam	1½ to 2 + 1 ¹ / ₃	2 to 2 ½ + 1 ² / ₃ to 2	

SORGHUM

Preemergence Application:

Select a registered herbicide treatment for application as a tank mixture. Make a single application as a tank mixture. Make a single application after planting but before crop emerges. In soil with 1 to 2% organic matter apply 0.5 to 1 pound per acre on sandy loam and 1 to 1.5 pounds per acre on loam, silt loam, silt, sandy clay, or sandy clay loam. In soil with 2 to 4% organic matter apply 1 to 1.5 pounds per acre on sandy loam and 1 to 2 pounds per acre on loam, silt loam, silt, sandy clay, or sandy clay loam. Plant seed at least 1 inch deep on flat or raised seedbeds only as injury to the crop may result. Do not apply over top of emerged sorghum.

Directed Postemergence Application:

Make a single application of Lorox DF as a directed spray. Add 1 pint surfactant for each 25 gallons spray mixture. If sprayer is equipped with skids, shoes or shields, apply 1 pound per acre when sorghum is 12 inches tall (free standing plants) and weeds are up to 2 inches in height. Use 1 to 2 pounds per acre when sorghum is 15 inches tall and weeds are 2 to 4 inches in height. Apply only when there is sufficient differential between height of sorghum and weeds so that the directed spray thoroughly covers all weed foliage without contact on upper leaves or whorf of sorghum by spray or drift as such contact may cause crop injury.

Replanting: Do not follow treated sorghum with any fall crop, nor with sugarbeets, tobacco, vegetables or potatoes in rotation. Prior to replanting, thorough seedbed preparation including fall or spring plowing is recommended. Sorghum or field corn may be replanted within 4 months, after 4 months any crop may be replanted.

Note: Do not graze or feed sorghum forage or silage from treated fields to dairy animals. Follow label instructions on product to be tank mixed.

SOYBEAN- CONVENTIONAL TILLAGE

Make only a single preemergence application of Lorox DF per season.

Do not exceed 2 lbs of Lorox DF in any application.

For broad spectrum weed control, select one of the following herbicide combination treatments and make a single application after planting but before crop emerges. Plant seed at least 1 ¾ " deep on flat or raised seedbeds only or injury to the crop may result. Injury to soybeans may result if application is made to fields with standing water or fields too wet to cultivate. Do not apply more than 2 lbs per acre of Lorox DF in any application. Do not spray over top of emerged soybeans. Do not use on sand or loamy sand nor any soil containing less organic matter than listed below.

For control of common ragweed, hemp sesbania, jimsonweed, lambsquarters, pigweeds, prickly sida, sicklepod, velvetleaf, spotted spurge, Venice mallow, purslane, carpetweed, Pennsylvania smartweed, and partial control of cocklebur*, use the following:

Lorox DF + Lexone DF*

Pounds of Lorox DF + pounds of Lexone DF* per acre

	Percent Organic Matter in Soil		
Soil Texture Description	1 to 3%	3 to 6%	
Coarse: Sandy loam	$\frac{1}{3}$ to $\frac{1}{2}$ + $\frac{1}{6}$ to $\frac{1}{3}$	1/2 to 3/4 + 1/2	
Medium : Loam, Silt loam, Silt, Sandy clay, Sandy clay	½ to ¾ + ½ to ½	% to 1 ½ + ² / ₃	
Fine: Silty clay, Silty clay loam, Clay, Clay loam	34 to 1 ½ + ½ to ² / ₃	1 ½ to 2 + ² / ₃	

^{*}For improved control of annual grasses, tank mix with Lasso or Dual (per labeling):

Herbicide Recropping/Restrictions

Lasso

Soybeans or field corn may be replanted within 4 months; after 4 months, see "Replanting".

Treated vines may be grazed or fed to livestock 40 days after application.

Of

Dual

Soybeans or field corn may be replanted within 4 months, for rotation crops, see "Replanting" and follow instructions on Dual label.

Do not graze or feed forage from treated areas to livestock.

NOTE: Soybean varieties such as Altona, Coker 102 and 156, Govan, NKS 1884, Semmes, Tracy, Vansoy, Terra Vig 505 and 606, Agripro 55, Agrow 6520, Maple Amber, Portage, Vinton 81, and AP 71 are sensitive to Lexone DF. If Lexone DF is used on these varieties, injury may occur. Tolerance to Lexone DF should be determined before use on any other soybean variety. Varieties showing above average tolerance to Lexone DF are American Revere, Asgrow 1937, Asgrow 3659, Asgrow 3860, DSR 171, DSR 207, Essex, Fayette, Hisoy 170, Lakota, Lawrence, LOL 4207, NKS 1492, Pride B216, Pride B242, SRF 250, SRF 350P, Union, Wayne, Wells II, and Williams 82. For maximum weed control, use the higher rate (where a range of rates is listed) for the appropriate soil type and organic matter as shown in the following tables. If Lexone DF is used on soils having a calcareous surface layer or pH of 7.5 or higher, or if used in conjunction with soil applied organophosphate pesticides such as Dasanit, Disyston, Mocap, Nemacur, Thimet, Parathion, Lorsban 15G or Counter, injury to soybean may occur. Do not feed treated plant parts to livestock. If atrazine was applied on the soil the year before, injury may occur. Increased possibility of crop injury may occur when soybean seedlings are weakened because of seedling disease, cold weather, deep planting (more than 2 inches). excessive moisture, high soil pH of 7.5 or higher, high salt concentration or drought. Do not use on sand or loamy sand soils.

Cultivation After Planting: Treated soil may be shallow-cultivated, rotary hoed or hand hoed without reducing the weed control activity of the tank mixture. Do not cultivate deeper than the treated layer of soil since this may bring untreated soil to the surface and poor weed control may result

Replanting: Treated fields may be replanted to soybeans if initial seeding fails to produce a stand. Soil should not be reworked. Crop injury may result if second application is applied. Do not replant treated areas to any crop other than soybeans within four months after treatment as injury to subsequent crops may result.

Lorox DF * Pounds of Lorox DF* per acre

	Percent Organic Matter in Soil		
Soil Texture Description	1 to 3%	3 to 6%	
Coarse: Sandy loam	² / ₃ to 1 ¼	1 ¼ to 2	
Medium: Loam, Silt loam, Silt, Sandy clay, Sandy clay loam	1 to 1 ² / ₃	1 ² / ₃ to 2	
Fine: Silty clay, Silty clay loam, Clay, Clay loam	1 ¼ to 2	2	

^{*}For improved control of annual grasses, add as per the following labeling:

Herbicide Recropping/Restrictions:

Lasso Soybeans or field corn may be replanted within 4 months; after 4 months,

see 'Replanting"

or

Dual Soybeans or field corn may be replanted with 4 months; for rotation crops,

see "Replanting" and follow instructions on Dual label. Do not graze or

feed forage from treated areas to livestock.

or

Prowl Soybeans or field corn may be replanted within 4 months; crops listed in

"Replanting" may be planted the following year.

or

Surflan Soybeans may be replanted within 4 months; after 4 months, see

"Replanting" but do not plant potatoes within 12 months. Do not use

treated vines for feed or forage.

For control of black nightshade, apply:

Lorox DF + Lasso

Pounds of Lorox DF + Quarts of Lasso per acre

Soil Texture Description	1 to 3% Percent Organic Matter in Soil
Coarse: Sandy loam	% to 1 ½ + 1 % to 2 ¼
Medium : Loam, Silt Ioam, Silt, Sandy clay, Sandy clay Ioam	1 to 1 ² / ₃ + 2 to 2 ½
Fine: Silty clay, Silty clay loam, Clay, Clay loam	1 1/4 to 2 + 2 1/4 to 2 3/4

Do not use on sand or loamy sands.

Replanting: Soybeans or field corn may be replanted within 4 months; after 4 months, see

"Replanting"

For control of black nightshade in Kentucky, Illinois, Indiana and Ohio:

Lorox DF + Dual MAGNUM

Pounds of Lorox DF + Pints of Dual MAGNUM per acre

Soil Texture Description	1 to 3% Percent Organic Matter in Soil
Coarse: Sandy loam	3/4 to 1 ½ + 4/5 to 1
Medium : Loam, Silt loam, Silt, Sandy clay, Sandy clay loam	1 to $1^{2}/_{3}$ + 1 to $1^{1}/_{3}$
Fine: Silty clay, Silty clay loam, Clay, Clay loam	1 1/4 to 2 + 1 1/3 to 1 2/3

Do not use on sand or loamy sands.

Replanting: Soybeans or field corn may be replanted within 4 months; after 4 months, see "Replanting"

Preemergence Following Treflan or Prowl Preplant:

Where Treflan or Prowl has been used as a preplant incorporated treatment (according to directions on product label), apply Lorox DF preemergence (after planting and before emergence of soybeans) as a separate operation using rates recommended below for Lorox DF alone. For rotation crops, follow instructions on Treflan or Prowl labels and see "Replanting". Plant seed at least 1 ³/₄" deep on flat or raised seedbeds only or injury to the crop may result. Injury to soybeans may result if application is made to fields with standing water or fields too wet to cultivate. Do not spray over top of emerged soybeans. Do not use on sand or loamy sand nor any soil containing less organic matter than listed below.

Lorox DF Alone--If weeds have emerged, add 1 pint surfactant for each 25 gals spray mixture.

Lorox DF
Pounds of Lorox DF per acre

	Percent Organic Matter in Soil	
Soil Texture Description	1 to 2%	2 to 5%
Coarse: Sandy loam	1 to 1 ² / ₃	1 ² / ₃ to 2
Medium : Loam, Silt loam, Silt, Sandy clay, Sandy clay loam	1 ¼ to 2	2
Fine: Silty clay, Silty clay loam, Clay, Clay loam	1 ¹ / ₃ to 2	(over 5% organic matter, use 2 lbs)

Replanting: Soybeans or field corn may be replanted within 4 months; after 4 months, see "Replanting"

SOYBEANS - MINIMUM OR NO TILLAGE

Preemergence to Soybeans Postemergence to Weeds: Lorox DF preemergence to soybeans may be used for preemergence and postemergence control of many broadleaf weeds and grasses where soybeans will be planted directly into a preformed bed (stale seed bed), cover crop or in previous crop residues such as corn or small grain stubble. Apply with ground

equipment immediately before, during or after planting but before crop emerges; maintain constant agitation of spray mixture.

Lorox DF Alone

Lorox DF

Pounds of Lorox DF per acre

	Percent Organic Matter in Soil	
Soil Texture Description	1 to 2%	2 to 5%
Coarse: Sandy loam	1 to 1 ² / ₃	1 ² / ₃ to 2
Medium: Loam, Silt loam, Silt, Sandy clay, Sandy clay loam	1 1/4 to 2	2
Fine: Silty clay, Silty clay loam,	1 ¹ / ₃ to 2	2
Clay, Clay loam		(over 5% organic matter, use 2 lbs)

Replanting: Soybeans or field corn may be replanted within 4 months; after 4 months, see "Replanting"

If small seedling weeds are present, add 1 pint surfactant for each 25 gals spray mixture for improved contact activity. On larger weeds, add paraquat or Roundup as described under these combinations; these treatments will also suppress some perennial weeds.

Lorox DF + Lasso or Dual MAGNUM or Surflan --will improve control of grasses and volunteer small grains.

Lorox DF + Lasso* (or Dual* or Surfian*) + paraquat or Roundup-Thoroughly mix Lorox DF and companion herbicide in spray tank first according to directions; then add paraquat, or Roundup as directed under Paraquat Combinations or Roundup Combinations below.

Lorox DF + Lasso

Pounds of Lorox DF + Quarts of Lasso per acre

	Percent Organic Matter in Soil	
Soil Texture Description	1 to 3%	3 to 6%
Coarse: Sandy loam	% to 1 ½ + 1 % to 2 ¼	1 ½ to 2 + 2 ¼ to 2 ½
Medium : Loam, Silt loam, Silt, Sandy clay, Sandy clay loam	1 ¹ / ₈ to 2 + 2 to 2 ½	2 + 21/2
Fine: Silty clay, Silty clay loam, Clay, Clay loam	1 1/4 to 2 + 2 1/2	2 + 2½ to 3

*For improved control of annual grasses and volunteer small grains, add as per labeling:

<u>Herbicide</u>	Recropping/Restrictions
Lasso	Soybeans or field corn may be replanted within 4 months; after 4 months, see "Replanting".
	or
Dual	Soybeans or field corn may be replanted within 4 months; for

rotation crops see "Replanting" and follow instructions on Dual label. Do not graze or feed forage from treated areas to livestock.

or

Surflan

Do not use treated vines for feed or forage. Soybeans may be replanted within 4 months; after 4 months, see "Replanting" and do not plant potatoes within 12 months.

For control of black nightshade apply with paraquat or Roundup as shown below:

Lorox DF + Lasso

Pounds of Lorox DF + Quarts of Lasso per acre

Soil Texture Description	1 to 3% Percent Organic Matter in Soil
Coarse: Sandy loam	34 to 1 1/2 + 1 3/4 to 2 1/4
Medium: Loam, Silt loam, Silt, Sandy clay, Sandy clay loam	1 to 2 + 2 to 2 ½
Fine: Silty clay, Silty clay loam, Clay, Clay loam	1 1/4 to 2 + 2 1/2 to 3

Replanting: Soybeans or field corn may be replanted within 4 months; after 4 months, see "Replanting"

Paraquat Combinations-Select and tank mix in water one of the above treatments; then add ¼ to ½ lb. active ingredient paraquat per acre for control of emerged weeds. Use the higher rate for weeds 4" to 6" tall. As the last ingredient, add ½ pint Ortho X-77 spreader per 100 gals of spray mixture. Maintain constant agitation. Use 20 to 60 gals of water per acre. Use the higher gallonage for dense stubble or vegetation.

Roundup Combinations-Select and tank mix one of the above treatments. As last ingredient, add 1 ½ quarts of Roundup per acre for control of emerged annual weeds or 2 to 4 quarts per acre for control of emerged perennial and annual weeds. Use 20 to 30 gals of water per acre.

Replanting Soybeans: If initial seeding fails to produce a stand, treated fields may be replanted to soybeans; do not rework soil; do not retreat field with a second application as injury to the crop may result. Do not replant treated areas to any crop other than soybeans within four months after treatment as injury to subsequent crops may result. See "Replanting".

NONCROP WEED CONTROL

Apply 2 to 6 pounds Lorox DF per acre in 40 to 100 gallons of water for short term control of annual weeds on non cropland areas such as roadsides and fence rows. Apply shortly before weed growth begins or at early seedling stage of growth for best results. Add 2 quarts of surfactant per 100 gallons of spray mixture for control of established annual weeds. Apply as a thorough coverage spray during periods when daily temperatures exceed 70° F and before weed growth exceeds 8 inches in height.

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[Possible label language for product marketed in California]:

ATTENTION: This product contains linuron, a chemical known to the State of California to cause birth defects or other reproductive harm in laboratory animals.

WARRANTY STATEMENT

GRIFFIN 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 directions under normal use conditions. It is impossible to eliminate all risks inherently associated with 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 GRIFFIN. In no case shall GRIFFIN 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. The exclusive remedy of any buyer or user of this product for any and all losses, injuries, or damages resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort, negligence, strict liability, or otherwise, shall not exceed the purchase price paid for this product or at Griffin's election, the replacement of this product.

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Prowl is a registered trademark of BASF
Surfian is a registered trademark of Dow AgroSciences LLC. Lexone is a registered trademark of E.I. DuPont de Nemours and Company.

Treflan is a registered trademark of Dow AgroSciences LLC Roundup is a registered trademark of Monsanto Company.