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Apply Dual BE alone or in tank mixtures with AATrex, Lexone, or Sencor in a minimum total volume of 2 gals. per acre by aircraft. Avoid application under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur. In order to assure that spray will be controllable within the target area when used according to label directions, make applications at a maximum height of 10 ft. using low drift nozzles at a maximum pressure of 40 psi, and restrict application to periods when wind speed does not exceed 10 mph. To assure that spray will not adversely affect adjacent sensitive nontarget plants, apply Dual BE alone or Dual BE + AATrex by aircraft at a minimum upwind distance of 300 ft. from sensitive plants, or apply Dual BE + Lexone or Lorox at a minimum upwind distance of 300 ft. from sensitive plants.

Application Procedures

Ground Application: Apply Dual BE in water alone or in tank mixtures by ground equipment in a minimum of 10 gals. per acre, in tank mixtures with AATrex, Lexone, or Sencor.

Use sprayers that provide accurate and uniform application. For Dual BE tank mixtures with wettable powder or dry flowable formulations, screens and strainers (1/8" mesh) should be used. Rinse sprayer thoroughly with clean water immediately after use.

Calculate the amount of herbicide needed for land treatment by the formula:

$$\text{Gals. @ 20 gpm} \times \text{Broadcast rate} = \text{Amount needed per acre}$$

Aerial Application: Apply Dual BE in water alone or in tank mixtures with AATrex, Lexone, or Sencor in a minimum total volume of 2 gals. per acre by aircraft. Avoid application under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur. In order to assure that spray will be controllable within the target area when used according to label directions, make applications at a maximum height of 10 ft. using low drift nozzles at a maximum pressure of 40 psi, and restrict application to periods when wind speed does not exceed 10 mph. To assure that spray will not adversely affect adjacent sensitive nontarget plants, apply Dual BE alone or Dual BE + AATrex by aircraft at a minimum upwind distance of 300 ft. from sensitive plants, or apply Dual BE + Lexone or Lorox at a minimum upwind distance of 300 ft. from sensitive plants.

Avoid application to humans or animals. Flagmen and loaders should avoid inhalation of spray mist and prolonged contact with skin and should wash thoroughly before eating and at the end of each day's operation.

Center Pivot Irrigation Application: Dual BE alone or tank mixtures with AATrex, or other herbicides on this label which are registered for center pivot application, may be applied in irrigation water preemergence (after planting but before weeds or crop emergence) at rates recommended on this label. Use only center pivot systems that apply water uniformly. Prepare a mixture with a minimum of 1 part of water to 1 part herbicide(s), and inject this mixture into the center pivot system using a positive displacement pump injecting a larger volume of a more dilute mixture per foot will usually provide more accurate distribution. Metering equipment. Maintain sufficient agitation to keep the herbicide(s) in suspension. Apply 1/2 inch of water, use the lower water volume (1/2 inch) on coarser textured soils, and the higher volume (1 inch) on finer textured soils. More than 1 inch of water at application may reduce weed control by moving the herbicide below the effective zone in the soil. Refer to supplemental literature published by CIBA-GEIGY for more information on calibration.

Precautions for center pivot applications: 1) Apply only through irrigation systems containing anti-siphon and check valves to prevent contamination of well during shut-down and overflow of solution tank. 2) Inject ahead of any right angle turn in the main line to insure adequate mixing. 3) Chemical injection pumps and water pumps must have interlocking controls to insure simultaneous shut-off. 4) Application when drift may occur, such as from windy conditions, or when distribution and connections are leaking, or when nozzles are not providing uniform distribution may cause crop injury. 5) Where sprinkler distribution patterns do not overlap sufficiently, unacceptable weed control may result. Where sprinkler distribution patterns overlap excessively, crop injury may result.

Dry Bulk Granular Fertilizers

Many dry bulk granular fertilizers may be impregnated or coated with Dual BE alone or Dual BE tank mixtures registered for preplant, incorporated or preemergence use in crops on the Dual BE label.

Labels, supplementary literature, and precautions regarding rates per acre, approved crops, soil texture, application, incorporation, crop rotation and other directions must be followed for Dual BE and other herbicides used in tank mixtures with Dual BE.

All dual state regulations relating to dry bulk granular fertilizer blending, registration, labeling, and application are the responsibility of the individual and/or company using the herbicide/fertilizer mixture.

Apply 200-450 pounds per acre of dry granular fertilizer impregnated with recommended rates of Dual BE alone or Dual BE tank mixtures.

Do not impregnate Dual BE or Dual BE mixtures on ammonium nitrate, potassium nitrate, or sodium nitrate either alone or in blends with other fertilizers.

Do not combine mixtures of Dual BE plus any other herbicide with single superphosphate (0-20-0) or triple superphosphate (0-46-0).

Do not use Dual BE or Dual BE mixtures on straight limestone, since absorption will not be achieved. Fertilizer blends containing limestone can be impregnated.

Prepare the granular herbicide/fertilizer mixtures by using any closed drum, belt, ribbon, or other commonly used dry bulk fertilizer blender. Nozzles used to spray Dual BE and Dual BE mixtures onto the fertilizer must be placed to provide uniform spray coverage.

If the herbicide/fertilizer mixture is too wet, use a highly absorbent powder, such as M-proce, E-Lignos-Mannite Products Corporation, 2400 Macleod St., St. Louis, Mo. 63103, to obtain a dry free-flowing mixture. Add the absorbent powder separately and uniformly to the herbicide/fertilizer mixture and blend to form a suitable free-flowing mixture. Generally, less than 2% by weight of absorbent powder will be needed.

Calculate amounts of Dual BE, AATrex, AATrex + Princep, Badex, Igran, Midgard, or Sencor, Lexone, or Lorox by the following formula:

		pts. per acre of Dual BE		pts. of Dual BE
2,000 lbs. of fertilizer per acre	X	AATrex 4L (4L/C)	=	AATrex 4L (4L/C)
		Badex 4L		Badex 4L
		Midgard 4L		Midgard 4L
		Princep 4L		Princep 4L
		Sencor 4L		Sencor 4L
		Lexone 4L or Lorox 4L per ton of fertilizer		Lexone 4L or Lorox 4L per ton of fertilizer
2,000 lbs. of fertilizer per acre	X	lbs. per acre of AATrex (80W or 90W or 90L)	=	lbs. of AATrex (80W or 90W or 90L)
		Badex 80W		Badex 80W
		Igran 80W, Midgard 80W or Maxx 90L		Igran 80W, Midgard 80W or Maxx 90L
		Princep 80W or Caliber 90L		Princep 80W or Caliber 90L
		Sencor 150WP or Sprayure 150 or Lexone 150WP or DF		Sencor 150WP or Sprayure 150 or Lexone 150WP or DF

For best results, apply this mixture uniformly to soil with properly calibrated equipment immediately after landing and incorporate according to directions.

Use a 1/8" mesh screen in crops where bedding is used to allow the herbicide/fertilizer to pass through the bedding.

Dual BE Applied Alone

Approved crops:

Crop/soil texture	Soil texture	Soil texture	Approved crops
corn/loam	fine	corn/loam	corn/loam
wheat/loam	fine	wheat/loam	wheat/loam
barley/loam	fine	barley/loam	barley/loam
oats/loam	fine	oats/loam	oats/loam
rye/loam	fine	rye/loam	rye/loam
triticale/loam	fine	triticale/loam	triticale/loam
soybeans/loam	fine	soybeans/loam	soybeans/loam
peas/loam	fine	peas/loam	peas/loam
beans/loam	fine	beans/loam	beans/loam
lentils/loam	fine	lentils/loam	lentils/loam
chickpeas/loam	fine	chickpeas/loam	chickpeas/loam
field peas/loam	fine	field peas/loam	field peas/loam
black-eyed peas/loam	fine	black-eyed peas/loam	black-eyed peas/loam
cowpeas/loam	fine	cowpeas/loam	cowpeas/loam
hemp/loam	fine	hemp/loam	hemp/loam
flax/loam	fine	flax/loam	flax/loam
linseed/loam	fine	linseed/loam	linseed/loam
rapeseed/loam	fine	rapeseed/loam	rapeseed/loam
mustard/loam	fine	mustard/loam	mustard/loam
turnip/loam	fine	turnip/loam	turnip/loam
radish/loam	fine	radish/loam	radish/loam
beet/loam	fine	beet/loam	beet/loam
chard/loam	fine	chard/loam	chard/loam
spinach/loam	fine	spinach/loam	spinach/loam
lettuce/loam	fine	lettuce/loam	lettuce/loam
kale/loam	fine	kale/loam	kale/loam
broccoli/loam	fine	broccoli/loam	broccoli/loam
cabbage/loam	fine	cabbage/loam	cabbage/loam
cauliflower/loam	fine	cauliflower/loam	cauliflower/loam
brussels sprouts/loam	fine	brussels sprouts/loam	brussels sprouts/loam
potatoes/loam	fine	potatoes/loam	potatoes/loam
onions/loam	fine	onions/loam	onions/loam
garlic/loam	fine	garlic/loam	garlic/loam
shallots/loam	fine	shallots/loam	shallots/loam
leeks/loam	fine	leeks/loam	leeks/loam
asparagus/loam	fine	asparagus/loam	asparagus/loam
artichokes/loam	fine	artichokes/loam	artichokes/loam
cardinalis/loam	fine	cardinalis/loam	cardinalis/loam
chrysanthemums/loam	fine	chrysanthemums/loam	chrysanthemums/loam
geraniums/loam	fine	geraniums/loam	geraniums/loam
impatiens/loam	fine	impatiens/loam	impatiens/loam
lupines/loam	fine	lupines/loam	lupines/loam
marigolds/loam	fine	marigolds/loam	marigolds/loam
petunias/loam	fine	petunias/loam	petunias/loam
salvia/loam	fine	salvia/loam	salvia/loam
verbena/loam	fine	verbena/loam	verbena/loam
zinnias/loam	fine	zinnias/loam	zinnias/loam

Corn, Soybeans, Safflowers, and Pea Crops*

*Pea crops including garbanzo, great northern beans, kidney beans, lima beans, mung beans, navy beans, pea, peas (English, southern peas, which is blackeye, pigeon, or deer), chickpeas, and snapbeans (green, wax, string).

Apply Dual BE either preplant, incorporated or preemergence using the appropriate rate from Table 1. Preplant incorporated: Apply Dual BE to the soil and incorporate into the top 2 inches of soil within 14 days before planting using a finishing disk, narrow rowing cultivator, or similar implement capable of providing uniform 2-inch incorporation. Use a preplant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected. If crop will be planted on beds, apply and incorporate Dual BE after bed formation. Preemergence: Apply Dual BE during planting (between the planter or after planting but before weeds or crops emerge).

Table 1. Dual BE Alone — Corn, Soybeans, Safflowers, and Pea Crops*

Soil texture	Broadcast rates per acre	
	Less than 3% organic matter	3% organic matter or greater**
COARSE Sandy, loamy sand, sandy loam	1.5-2 pts.	2 pts.
MEDIUM Loam, silt loam	2-2.5 pts.	2-2.5 pts.
FINE Silty clay loam, sandy clay loam, silty clay, sandy clay, clay loam, clay, muck or peat soils	2-2.5 pts.	2-2.5 pts.

*On English peas, use only preemergence applications. Do not use on English peas in northeastern U.S.

**In corn, Dual BE may be used up to 4 pts. A as a preplant incorporated or preemergence treatment on soils having an organic matter content between 6% and 20%.

Peanuts

Apply Dual BE either preplant, incorporated, postplant, incorporated or preemergence using the appropriate rate specified below. Preplant incorporated or Preemergence: Follow instructions for use of Dual BE alone immediately preceding Table 1. Postplant incorporated: Apply and shallowly incorporate Dual BE into the soil after planting, but before peanut germination. Incorporation depth and incorporating implements must be kept above the seed or seed will be damaged.

Apply Dual BE alone incorporated or preemergence at a broadcast rate of 1.5-3 pts. per acre use the lower rate on soils relatively coarse-textured or low in organic matter.

Note: Dual BE alone may be applied as directed after any of the following preplant incorporated herbicides when used according to the label recommendations: Balan at 3-4 pts. per acre, Trellan E-C at 1 pt. per acre, or Vernam at 2-3-3-3 pts. per acre.

Grain Sorghum (Concept-treated seed)

Apply Dual BE either preplant, incorporated or preemergence using the appropriate rate from Table 2. Preplant incorporated or Preemergence: Follow instructions for use of Dual BE alone immediately preceding Table 1.

Table 2. Dual BE Alone — Grain Sorghum

Soil texture	Broadcast rates per acre	
	Less than 3% organic matter	3% organic matter or greater**
COARSE Sandy, loamy sand, sandy loam	1.5-2 pts.	2 pts.
MEDIUM Loam, silt loam	2-2.5 pts.	2-2.5 pts.
FINE Silty clay loam, sandy clay loam, silty clay, sandy clay, clay loam, clay	2-2.5 pts.	2-2.5 pts.

Precautions: Grain sorghum seed is not properly treated with Concept. Dual BE will severely injure the crop. 2) Under high soil moisture conditions prior to sorghum emergence, injury may occur following the use of Dual BE. The crop will normally outgrow this effect. 3) Do not use Dual BE on sorghum grown under dry mulch. 4) Application may occur.

Cotton

Application: Apply Dual BE either preplant, incorporated or preemergence using the appropriate rate from Table 3. Preplant incorporated: Apply to the soil and incorporate into the top inch of soil immediately before planting, at planting, or after planting but before crop or weeds emerge. Use a rolling cultivator or similar implement to uniformly incorporate not more than one inch deep. Use a preplant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected. Where furrow irrigation is used, wet the top of the bed for best results. If the crop is to be planted on beds, apply and incorporate after bed formation. Cotton should be planted below the zone of incorporation, i.e., at least 1 inch on the soil and 1.5 inches on coarse and medium soils. If incorporated prior to planting, use a planter that will result in a minimum of soil disturbance. Preemergence: Apply to the soil surface at planting, or after planting but before weeds or crop emergence.

Note: For best control of johnsongrass and suppression of seedling johnsongrass, apply Dual BE preplant incorporated at the maximum rate for the soil texture from Table 3. Whether applied alone or mixed with Caproth.

Table 3. Dual BE Alone — Cotton (AR, LA, MS, NM, OK, TN, TX, and Bootheel of MO)

Soil texture	Broadcast rates per acre	
	Less than 3% organic matter	3% organic matter or greater**
SAND Sandy sand	DO NOT USE	DO NOT USE
SANDY LOAM	1.5 pts.	1.5 pts.
MED. LOAM Loam, silt loam	1.5-2 pts.	1.5-2 pts.
FINE Silty clay loam, sandy clay loam, silty clay, sandy clay, clay loam, clay	2 pts.	2 pts.

*Use on sandy loams, loams, silty loams, and fine.

Appendix 1: The following table lists the names of the authors of the articles in the special issue. The authors are listed in the order in which they appear in the special issue. The authors are listed in the order in which they appear in the special issue. The authors are listed in the order in which they appear in the special issue.

Preemergence: App. Due 8E at 1.5-3 p's. A rather after pating as a pre-emergence delayed pre-emergence after drag-off on long treatment but before went on high 4 p's. Act Due 8E a chemo, caused anorexia organic matter, a greater in the

Note: Do not use on much or peel soils. Do not use on conditions other than application. Dual may, by maturity, and/or reduce yield of Super and other early maturing potato varieties. Do not use on sweet potatoes or yams.

Rotational Crops: Fall crop treated with a pre and/or preemergence application of Lure 33 alone should corn, cotton, soybeans, peanuts, potatoes, safflowers, Conop, treated grain sorghum, or the seed pod crops may be replanted immediately. Do not make a winter

Dual BE Combinations — Corn

Tank Mixture with AAtrex or Princep, or AAtrex plus Princep Formulations

Preplant Incorporated or Presurgence:
Weeds Controlled

Apply Dual 8E + AAtree or Princep or Dual 8E + AAtree + Princep preplant, incorporate or preemergence using the appropriate rates from Table 1. Preplant, preemergence, or preemergence. For instructions for use of Dual 8E as a nematode and insecticide, see Table 1.

Broadcast rates per acre	
Less than 3% organic matter	3% organic matter or greater

[illegible]

*** Fertilizer: In the knowledge and several control on the treated soils above 3 organic matter. Apply 2.25 lbs. of AATree Nine 0-2-5 lbs. of AATree 60W-4-0 lbs. of AATree 4L-14-0. Of the same total amount of AATree + Phosphorus with 2.25 lbs. of C. BE per acre.

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains.

[illegible]

Table 5 Dual SE + AAbraz Postemergence — Corn

Broadcast rates per acre

* When using AATren 4L, AATren 4LC, or AATren 80W, use equivalent rates. One 5 AATren 4L equals 1 50LS, 1 4L 4LC, or 1 50LS 80W.

Rotational Crops: Follow the crop rotation instructions for Dual EE + Atrial Prepa
Crop Rotation Recommendations - Corn

Quar BE + Bader: other's several effects not controlled by Quar BE alone
 Aspects of ...

Watergrass	Witchgrass	Florida pusley	ajweed
crabgrass	crabgrass	crabgrass	crabgrass

giant foxtail carpetweed
glossy grass

Acres _____ Percent organic matter in soil _____

19	20	21	22
Pts. Qual RE	Pts. Qual RE	Pts. Qual RE	Pts. Qual RE

* When using B 32ex 80W use equivalent rates One qt. of 4L equals 1.25 lbs. of 80W

Final Affix: 4th Segment

NE (4 SD and 40

[illegible]

SECRET

Table 7: Dual BE + Banvel Tank Mixture — Field Corn

Soil texture*	Broadcast rates per acre for soils with more than 2.5% organic matter		
	Dual BE	+	Banvel
MEDIUM Loam, silt loam	2 pts	+	1 pt
FINE Sandy clay loam, silty clay loam, clay, silty clay, silty clay loam, muck or peat soils	2-2.5 pts	+	1 pt
muck or peat soils	DO NOT USE		

*Do not use on coarse sand or on soils with less than 2.5% organic matter.

Rotational Crops: Refer to the crop rotation instructions for Dual BE alone on this label and for Banvel alone on the Banvel label.

Tank Mixture with AAtrex or Princep, or AAtrex plus Princep, with Paraquat or Roundup for Minimum-Tillage or No-Tillage Systems

In minimum-tillage or no-tillage systems where corn is planted directly into a cover crop, established sod, or previous crop residues, the contact herbicides paraquat or Roundup may be added to a tank mix of Dual BE + AAtrex or Princep, or Dual BE + AAtrex + Princep. When used as directed, the paraquat portion of the tank mixture controls most emerged annual weeds and suppresses many perennial weeds. Roundup controls most A control emerged annual and perennial weeds when applied as directed in the Roundup label. The Dual BE + AAtrex or Princep, or Dual BE + AAtrex + Princep portion of the tank mixture provides preemergence control of the weeds listed on this label in the tank mixture section for Dual BE + AAtrex or Princep, or Dual BE + AAtrex + Princep. Prepare and incorporate or preemergence.

Application: Apply before, during, or after planting, but before the corn emerges, at the rates in Table 8. Add paraquat or Roundup at the following broadcast rates:

Paraquat: 1.2 pts. * per acre plus 8 oz. of 77% spreader per 100 gals. of spray mixture. Use the lower rate for control of annual weeds less than 4 inches tall and the higher rate for weeds 4-6 inches tall. This treatment will not consistently control weeds taller than 6 inches.

Roundup: 1.5 pts. per acre for existing annual weeds, or 2.4 pts. per acre for existing perennial weeds. See the Roundup label for weeds controlled and recommended rate, for specific weeds.

Apply in 20-60 gals. of water or fluid fertilizer per acre with ground equipment.

*Based on products containing 2 lbs. active ingredient per gal.

Table 8: Dual BE + AAtrex or Princep, or Dual BE + AAtrex + Princep for Minimum-Tillage or No-Tillage Corn

Soil texture	Broadcast rates per acre		
	Dual BE + AAtrex Nine-O [®] or Princep Caliber 90 [®]	OR	Dual BE + AAtrex Nine-O [®] + Princep Caliber 90 [®]
COARSE Sand loamy sand sandy loam	1.5 pts. + 1.3 lbs.		1.5 pts. + 7.5 + 7.5
MEDIUM Loam, silt loam	2 pts. + 1.8 lbs.		2 pts. + 3.0 + 9.0
FINE Silty clay loam sandy clay loam silty clay sandy clay clay loam clay	2-2.5 pts. + 1.8-2.2 lbs. ***		2-2.5 pts. + 9.1 lbs. *** + 9.1 lbs. ***
muck or peat soils	DO NOT USE		

*When using AAtrex 4L or Princep 4L, AAtrex 4LC or AAtrex 4CW for Princep 80W, use equivalent rates. One lb. of Nine-O or Caliber 90 equals 1.8 pts. of 4L, 4LC or 1.1 lbs. of 80W. Use Princep in preference to AAtrex when heavy infestations of crabgrass or fall panicum are expected.

**When using the tank mixture of Dual BE + AAtrex Nine-O + Princep Caliber 90, use equivalent rates of AAtrex and Princep as shown when heavy broadleaf weed infestations are expected. When heavy infestations of crabgrass or fall panicum are expected, use a 1:2 ratio of AAtrex + Princep instead of the 1:1 ratio given in Table 8 above. For example, for Dual BE + AAtrex Nine-O + Princep Caliber 90 use 1.8 lbs. of AAtrex plus 1.2 lbs. of Princep, respectively. Refer to the asterisk (*) above for AAtrex 4L, 4LC and 80W and Princep 4L and Princep 80W conversions.

***For cocklebur, yellow nutsedge, and velvetleaf control on textured soils, apply 3 lb. of paraquat per acre, 2.25 lbs. of AAtrex Nine-O, 2.5 lbs. of AAtrex 4L or 4LC, or the same total amount of AAtrex + Princep with 2.2 lbs. of Dual BE per acre.

Rotational Crops: Refer to the crop rotation statements for Dual BE alone on this label and for AAtrex and Princep alone on those labels.

Tank Mixture with Bladex and Paraquat for Minimum-Tillage or No-Tillage Systems

Use Dual BE + Bladex + paraquat as a tank mix combination in broadcast treatments to kill existing vegetation and provide residual control of weeds where corn will be planted directly into a cover crop, established sod, or residues of previous crops. This tank mix combination may be applied in liquid nitrogen and/or complete liquid fertilizer solutions when 25 gals. or more of diluted spray are applied per acre. Liquid fertilizers containing phosphate will reduce the activity of paraquat. When liquid fertilizer solutions containing phosphate are used with paraquat and a rapid kill is desired, use the high paraquat rate only. Do not apply Bladex plus paraquat in suspension-type liquid fertilizer for minimum-tillage or no-tillage corn. Use Dual BE and Bladex at rates given in Table 6 for your soil texture, and add 2.2 lbs. of paraquat (for band application, use proportionately less) Add 8-77 at 8 fl. oz. per 100 gals. of diluted spray, or other suitable surfactant at its recommended rate. Should evidence of compatibility problems tend to occur in the tank mixture, add Unile compatibilizer agent at 2-3 pts. 100 gals. of spray mixture.

Notes: (1) Refer to Dual BE, Bladex and paraquat labels for additional precautions and limitations. (2) Continue to update the mixture and to empty the spray tank during the spraying operation. (3) Do not allow tank mixture to stand with the nozzle(s) open for more than 15 minutes. (4) Do not use the tank mixture in a liquid fertilizer without a compatibility test. (5) Do not use the tank mixture in a liquid fertilizer and herbicide.

Rotational Crops: Refer to the crop rotation statements for Dual BE alone on this label and for Bladex and paraquat alone on those respective labels.

Dual BE Combinations — Soybeans

Tank Mixture with Sencor or Loxone

Weeds Controlled:

barleygrass watergrass crabgrass crabgrass fall panicum giant foxtail goosegrass green foxtail	red top sorghum Barnyard southwestern cudgrass yellow foxtail	yellow foxtail black nightshade carpetweed gambusia hemp dogbane and squatters	pigweed prickly sida ragweed smartweed velvetleaf Venice mallow wild mustard
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Weeds Partially Controlled: cocklebur, common purslane, mischweed, morning glory, sandbur, seedling goosegrass, velvetleaf, volunteer sorghum.

Apply Dual BE and Sencor or Loxone preplant, incorporated or preemergence, using the appropriate rates from Table 9. Prepare and incorporate or preemergence. Follow instructions for use of Dual BE alone immediately preceding Table 1. Sequentially apply Dual BE and the Preplant or incorporated, as specified in this tank mixture formula with a preemergence application of Sencor or Loxone during planting (before the planter) or after planting (before weeds or soybeans emerge).

Refer to the Sencor or Loxone labels for planting details and soybean variety restrictions.

Table 9: Dual BE + Sencor or Loxone — Soybeans

Soil texture**	Broadcast rates per acre					
	0.5% to less than 3% organic matter		3% organic matter or greater			
	Dual BE	+	Sencor 50WP [®] or Loxone	Dual BE	+	Sencor 50WP [®] or Loxone
COARSE Loamy sand, loam, 2% organic matter, sandy loam	1.25- 1.5 pts	+	5 lb	1.5 pts	+	7.5 lb
MEDIUM Loam, silt loam, silt	1.5 2 pts	+	7.5 lb	2 pts	+	1 lb ***
FINE Silty clay loam, sandy clay loam, silty clay, sandy clay, clay loam, clay	2 pts	+	1 lb	2-2.5 pts	+	1 lb
Mississippi Delta soil (Silty clay, clay)	2 pts	+	1.5 lbs	2-2.5 pts	+	1.5 lbs
muck or peat soils	DO NOT USE					

*When using Sencor 4L or Loxone 4L, substitute pounds per acre for pounds per pint equals 1 pound for Sencor Spray-L or Loxone DF. Multiply pounds 50WP by 0.67.

**On a sand and on loamy sand with less than 2% organic matter, do not use this tank mixture preemergence or the sequential treatment. Do not use the tank mixture preplant incorporated on any sand, loamy sand, or sandy loam, or crop injury may occur.

***Use 0.75 lb. per acre if applied preplant incorporated.

Rotational Crops: Refer to the crop rotation instructions for Dual BE alone on this label and for Sencor or Loxone alone on those labels.

Precautions: (1) Do not use the tank mix or sequential application on soil with less than 0.5% organic matter or on a saline soil with a pH over 7.4, or crop injury may occur. (2) If heavy rain occurs soon after application, crop injury may result, especially in poorly drained areas where water stands for several days.

Tank Mixture with Lorox

Weeds Controlled:

barleygrass watergrass crabgrass crabgrass fall panicum giant foxtail goosegrass	green foxtail sorghum Barnyard southwestern cudgrass yellow foxtail	yellow foxtail yellow nutsedge black nightshade carpetweed gambusia hemp dogbane and squatters	pigweed prickly sida ragweed smartweed Venice mallow wild mustard
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Weeds Partially Controlled: cocklebur, common purslane, mischweed, morning glory, sandbur, seedling goosegrass, velvetleaf, volunteer sorghum.

Apply during planting (before the planter) or after planting, but before weeds or soybeans emerge. Refer to the Lorox label for planting details. Apply the appropriate rates from Table 10.

Table 10: Dual BE + Lorox — Soybeans

	Broadcast rates per acre			
	0.5% to less than 3% organic matter		3% organic matter or greater	
Soil texture*	Dual BE	+ Lorox***	Dual BE	+ Lorox***
COARSE Sandy loam, loamy sand**	1.25 pts	+ 1 lb	1.5 pts	+ 1.15 lbs
MEDIUM Loam, silt, silt loam	1.5 pts	+ 1.15 lbs	2 pts	+ 1.52 lbs
FINE Silty clay, loam sandy clay, loam, silty clay, sandy clay, clay loam, clay	2 pts	+ 2 lbs	2-2.5 pts	+ 2.53 lbs
muck or peat soils	DO NOT USE			

*Do not use on sand, gravel, or soils of exposed subsoils.

**Do not use on sandy soil, except in the northeastern U.S. on loamy sand with over 1% organic matter.

***When using Lorox L, use equivalent rates. One lb. of Lorox L equals one lb. of Lorox wettable powder.

Precautions: (1) Do not use on soil with less than 0.5% organic matter or crop injury may occur. (2) If heavy rain occurs soon after application, crop injury may result, especially in poorly drained areas where water stands for several days.

Rotational Crops: Refer to the crop rotation instructions for Dual BE alone on this label and for Lorox alone on the Lorox label.

Table 16: Dual BE + Lorox Tank Mix with Paraquat + X-77 or Roundup in Minimum Tillage or No-Tillage Soybeans

Soil texture*	Broadcast rates per acre		
	Dual BE	+	Lorox**
COARSE Sandy loam - fine sand**	1.4 pts	+	1.1 lbs
MEDIUM Loam silt silt loam	2 pts	+	1.2 lbs
FINE Silty clay loam sandy clay loam silty clay sandy clay silt	2.2 pts	+	2.3 lbs

* Do not use on heavy gravel and/or exposed subsoil.
 ** Do not use on heavy sand or silt in the northeastern U.S. on heavy sand with heavy organic matter.
 *** When using Lorox, use equivalent rates. One pt. of Lorox equals one lb. of Lorox wettable powder.

Precautions: 1) Do not use on soils with less than 0.5% organic matter or on soils with less than 0.5% organic matter. 2) Only water should be used as a carrier for Dual BE + Lorox + Paraquat + Roundup.

Rotational Crops: Refer to the crop rotation instructions for Dual BE alone on this label and for Lorox, Paraquat, or Roundup alone on those labels.

Dual BE Combinations—Peanuts

Tank Mixture with Balan L.C.

Dual BE + Balan tank mix applied preplant incorporated controls these weeds listed under Dual BE Applied Alone and those weeds as listed on the Balan label.

Apply Dual BE + Balan at 1.5-3 pts. + 3.4 qts. per acre in a minimum of 10 qts. of spray volume per acre for ground application or in a minimum of 5 qts. of spray volume per acre for aerial application. Follow the recommended procedures for Balan on the Balan label for soil preparation and incorporation of this tank mix. Apply and incorporate Dual BE + Balan up to 14 days prior to planting.

Note: Follow all restrictions and precautions on the Balan label.

Rotational Crops: Refer to the crop rotation instructions for Dual BE alone on this label and for Balan on the Balan label.

Tank Mixture and Sequential Application with Dyanap

Dual BE + Dyanap controls several weeds. It controlled by Dual BE alone or Dyanap alone. **Weeds Controlled:**

barlygrass barnyardgrass crabgrass crownfootgrass fall panicum foxtail green foxtail goosegrass green foxtail sorghum barnyardgrass	southwestern cupgrass mitchgrass yellow foxtail yellow nutsedge beggarweed (beggarweed) black nightshade carpetweed chickweed	cocklebur Florida pusley galinsoga groundcherry jimsonweed lambsquarters marestail mustard pigweed	black y. sida barnyard purslane ragweed shepherdspurse smartweed velvetleaf wild sunflower
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Weeds Partially Controlled: sandbur, seeping johnsongrass, volunteer sorghum, cottonseed, soybean.

Tank Mixtures: Apply Dual BE + Dyanap at 1.5-3 pts. + 6 qts. per acre in 15-40 qts. of spray volume. Use the lower rate of Dual BE on soils with low organic matter or on soils with high organic matter. Use the higher rate on soils with high organic matter. Apply just as the peanuts begin to crack the ground or cracking time. However, application may be made from planting time up to the time the majority of the peanut plants are in the cracking stage.

Note: Peanut storage may or may not be fed to livestock. If peanuts are treated with the Dual BE + Dyanap tank mixture.

Sequential Treatments: Apply Dual BE preplant incorporated or preemergence according to the directions for Dual BE applied alone, and follow with a Dyanap preemergence or cracking time treatment using 6 qts. per acre as specified for use alone on that label.

If a 1-inch or greater rain does not occur within 7 days after application, narrow incorporation of 1 inch is recommended. Cultivate if weeds develop. Refer to the Dyanap label for planting data and information on all other factors affecting its use.

Note: The tank mixture and sequential treatments with Dyanap may be applied as directed after any of the following preplant incorporated herbicides when used according to the label recommendations: Balan at 3.4 qts. per acre, Treban E.C. at 1 pt. per acre, or vernam at 2.33 pts. per acre.

Rotational Crops: Refer to the crop rotation instructions for Dual BE alone on this label and for Dyanap alone on the Dyanap label.

Dual BE Combinations—Grain Sorghum (Concept-treated seed)

Tank Mixture with AAtrex

The Dual BE + AAtrex tank mixture provides control of weeds listed on this label in the tank mixture section for Dual BE + AAtrex on corn.

Apply Dual BE + AAtrex preplant incorporated or preemergence using the appropriate rates from Table 17. Preplant incorporated or preemergence. Follow instructions for use of Dual BE alone immediately preceding Table 1.

Table 17: Dual BE + AAtrex—Grain Sorghum*

Soil texture	Broadcast rates per acre			
	Less than 1.5% organic matter		1.5% organic matter or greater	
	Dual BE	AAtrex Nine-O**	Dual BE	AAtrex Nine-O**
COARSE Sandy loam - fine sand	DO NOT USE		1.4 pts	1.1 lbs
MEDIUM Loam silt silt loam	DO NOT USE		2 pts	1.2 lbs
FINE Silty clay loam sandy clay loam silty clay sandy clay silt	1.5 pts	1.2 lbs	2.2 pts	2.3 lbs

* Do not use on soils with less than 0.5% organic matter or on soils with less than 0.5% organic matter.
 ** Do not use on heavy sand or silt in the northeastern U.S. on heavy sand with heavy organic matter.
 *** When using AAtrex, use equivalent rates. One lb. of AAtrex equals one lb. of AAtrex wettable powder.

Precautions: 1) Applications of Dual BE + AAtrex on highly alkaline soils or on eroded areas where calcareous subsoils are exposed may cause crop injury. 2) If sorghum seed is not properly treated with Concept, Dual BE + AAtrex will severely injure the crop. 3) Under high soil moisture conditions prior to sorghum emergence, injury may occur following the use of Dual BE + AAtrex. The crop will normally outgrow this effect. 4) Do not use Dual BE + AAtrex on sorghum grown under dry, much tillage or injury may occur.

Rotational Crops: Refer to the crop rotation instructions for Dual BE + AAtrex on corn.

Tank Mixture with Igran 80W

Dual BE + Igran 80W controls the same weeds as Dual BE + AAtrex, with the following exceptions: 1) Dual BE + Igran 80W also controls witch and purslane, and 2) Dual BE + Igran 80W may not give adequate control of browntop, panicum, foxtail, cocklebur, and Florida pusley.

Apply Dual BE + Igran 80W preplant incorporated or preemergence using the appropriate rates from Table 18. Preplant incorporated or preemergence. Follow instructions for use of Dual BE alone immediately preceding Table 1.

Table 18: Dual BE + Igran 80W—Grain Sorghum

Soil texture	Broadcast rates per acre		
	Dual BE	+	Igran 80W
COARSE Sandy loam - fine sand	1.25 pts	+	1.5 lbs
MEDIUM Loam silt silt loam	1.5-1.75 pts	+	2.2 lbs
FINE Silty clay loam sandy clay loam silty clay sandy clay silt	1.75-2 pts	+	2.2-2.5 lbs

Precautions: 1) Applications of Dual BE + Igran 80W on highly alkaline soils or on eroded areas where calcareous subsoils are exposed may cause crop injury. 2) If sorghum seed is not properly treated with Concept, Dual BE + Igran 80W will severely injure the crop. 3) Under high soil moisture conditions prior to sorghum emergence, injury may occur following the use of Dual BE + Igran 80W. The crop will normally outgrow this effect. 4) Do not use under dry, much tillage or injury may occur.

Rotational Crops: Refer to the crop rotation instructions for Dual BE alone on this label and for Igran 80W alone on the Igran label.

Tank Mixture with Milogard

Dual BE + Milogard controls the same weeds as Dual BE + AAtrex, with the following exceptions: 1) Dual BE + Milogard also controls preleaves and red rice, and 2) Dual BE + Milogard may not give adequate control of cocklebur, ragweed, smartweed, and velvetleaf.

Apply Dual BE + Milogard preplant incorporated or preemergence using the appropriate rates from Table 19. Preplant incorporated or preemergence. Follow instructions for use of Dual BE alone immediately preceding Table 1.

Table 19: Dual BE + Milogard—Grain Sorghum

Soil texture	Broadcast rates per acre		
	Dual BE	+	Milogard 80W*
COARSE Sandy loam - fine sand	DO NOT USE		
MEDIUM Loam silt silt loam	1.5-1.9 pts	+	1.1-1.2 lbs
FINE Silty clay loam sandy clay loam silty clay sandy clay silt	1.9-2.1 pts	+	1.2-1.3 lbs

* When using Milogard 4L or Milogard Max 90, use equivalent rates. One lb. of Milogard 80W equals 0.9 lb. of Milogard Max 90 or 1.6 pts. of Milogard 4L.

Precautions: 1) Application on highly alkaline soils or on eroded areas where calcareous subsoils are exposed may cause crop injury. 2) If sorghum seed is not properly treated with Concept, Dual BE + Milogard will severely injure the crop. 3) Under high soil moisture conditions prior to sorghum emergence, injury may occur following the use of Dual BE + Milogard. The crop will normally outgrow this effect. 4) Do not incorporate on sandy, loam soils in AR, GA, OK, NM, TX, and the Gulf Coast states. 5) Do not use Dual BE + Milogard on sorghum grown under dry, much tillage or injury may occur.

Rotational Crops: Refer to the crop rotation instructions for Dual BE alone on this label and for Milogard alone on the Milogard label.

Dual BE Combinations—Cotton

Tank Mixture with Caparol

barlygrass barnyardgrass crabgrass crownfootgrass fall panicum foxtail green foxtail goosegrass green foxtail sorghum barnyardgrass	ragweed cupgrass mitchgrass yellow foxtail yellow nutsedge beggarweed (beggarweed) black nightshade carpetweed chickweed	cocklebur Florida pusley galinsoga groundcherry jimsonweed lambsquarters marestail mustard pigweed	black y. sida barnyard purslane ragweed shepherdspurse smartweed velvetleaf wild sunflower
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Weeds Partially Controlled: sandbur, seeping johnsongrass, volunteer sorghum, cottonseed, soybean.

Tank Mixtures: Apply Dual BE + Caparol at 1.5-3 pts. + 6 qts. per acre in 15-40 qts. of spray volume. Use the lower rate of Dual BE on soils with low organic matter or on soils with high organic matter. Use the higher rate on soils with high organic matter. Apply just as the cottons begin to crack the ground or cracking time. However, application may be made from planting time up to the time the majority of the cotton plants are in the cracking stage.

Note: Peanut storage may or may not be fed to livestock. If peanuts are treated with the Dual BE + Dyanap tank mixture.

Sequential Treatments: Apply Dual BE preplant incorporated or preemergence according to the directions for Dual BE applied alone, and follow with a Dyanap preemergence or cracking time treatment using 6 qts. per acre as specified for use alone on that label.

If a 1-inch or greater rain does not occur within 7 days after application, narrow incorporation of 1 inch is recommended. Cultivate if weeds develop. Refer to the Dyanap label for planting data and information on all other factors affecting its use.

Note: The tank mixture and sequential treatments with Dyanap may be applied as directed after any of the following preplant incorporated herbicides when used according to the label recommendations: Balan at 3.4 qts. per acre, Treban E.C. at 1 pt. per acre, or vernam at 2.33 pts. per acre.

Rotational Crops: Refer to the crop rotation instructions for Dual BE alone on this label and for Dyanap alone on the Dyanap label.

Use areas	Soil texture	Broadcast rates per acre	
		Omni 00	Capanol 00W*
All	Sand, sandy loam	1.5 to 2.0 lbs	1.5 to 2.0
California and New Mexico Great Plains Texas	loam	2.0	2.0
Red Grange and Great Plains	loam	1.5 to 2.0 lbs	2.0
	sandy loam	2.0	2.0
New Mexico and Great Plains	sandy loam	1.5 to 2.0 lbs	1.5
Red Grange Great Plains	loam	1.5 to 2.0	1.5 to 2.0
Edwards Plateau of Texas and Southwest Texas	sandy clay loam	2.0	1.5 to 2.0
	other clay soils	2.0 lbs	2.0

[illegible]

Refer to the Capri label for further instructions and limitations.

Dual SE Combinations—Pod Crops

This mature section is all weeds controlled by Dual SE alone and by Eptam. Refer to the Dual SE alone section of this table for weeds controlled by Dual SE alone and to the Eptam alone for weeds controlled by Eptam.

Refer to the D-3 BE and Extra labels for weather, cultural practices and all other pre-cautions and warnings that affect performance of these products.

Soil texture	Broadcast rates per acre			
	Less than 3% organic matter		3% organic matter or greater	
	Dual BE	Epam 7-E*	Dual BE	Epam 7-E*
COARSE				
Sand				
sandy sand	1.25 pts.	3.5-4.5 pts.	1.5 pts.	4-4.5 pt.
sandy loam				
W.B. 10"				
loam s. c.	1.5 pts.	3.5-4.5 pts.	2 pts.	3.5-4.5 pts.
s. l. c.				
FINE				
s. l. clay loam				
sandy, 30-40%				
s. l. clay	2 pts.	3-4.5 pts.	2-2.5 pt.	3.5-4.5 pts.
sandy clay				
clay, 30-40%				
clay, 40-60%				
heavy clay				

Peter is the Editor of *Journal of Species and Conservation Biology*.

Tank Mixture and Sequential Applications with Premerge 3—Beans (Field, Lima and Snap)

[illegible]

Refer to the LEE and Demergut's paper for another explanation of the
relationships and interactions between the variables.

Soil texture	Broadcast rates per acre			
	Premerge 3" — 4 1/2" from crown line depth		Premerge 3" — 4 1/2" from crown line depth	
	Less than 3% organic matter	3% organic matter or greater	Less than 3% organic matter	3% organic matter or greater
Clay loam	2.00	2.00	2.00	2.00
Silt loam	2.00	2.00	2.00	2.00
Silt clay	2.00	2.00	2.00	2.00
Clay	2.00	2.00	2.00	2.00
Silt loam	2.00	2.00	2.00	2.00
Silt clay	2.00	2.00	2.00	2.00
Clay	2.00	2.00	2.00	2.00
Silt loam	2.00	2.00	2.00	2.00
Silt clay	2.00	2.00	2.00	2.00
Clay	2.00	2.00	2.00	2.00
Silt loam	2.00	2.00	2.00	2.00
Silt clay	2.00	2.00	2.00	2.00
Clay	2.00	2.00	2.00	2.00
Silt loam	2.00	2.00	2.00	2.00
Silt clay	2.00	2.00	2.00	2.00
Clay	2.00	2.00	2.00	2.00
Silt loam	2.00	2.00	2.00	2.00
Silt clay	2.00	2.00	2.00	2.00
Clay	2.00	2.00	2.00	2.00
Silt loam	2.00	2.00	2.00	2.00
Silt clay	2.00	2.00	2.00	2.00
Clay	2.00	2.00	2.00	2.00
Silt loam	2.00	2.00	2.00	2.00
Silt clay	2.00	2.00	2.00	2.00
Clay	2.00	2.00	2.00	2.00
Silt loam	2.00	2.00	2.00	2.00
Silt clay	2.00	2.00	2.00	2.00
Clay	2.00	2.00	2.00	2.00
Silt loam	2.00	2.00	2.00	2.00
Silt clay	2.00	2.00	2.00	2.00
Clay	2.00	2.00	2.00	2.00
Silt loam	2.00	2.00	2.00	2.00
Silt clay	2.00	2.00	2.00	2.00
Clay	2.00	2.00	2.00	2.00
Silt loam	2.00	2.00	2.00	2.00
Silt clay	2.00	2.00	2.00	2.00
Clay	2.00	2.00	2.00	2.00
Silt loam	2.00	2.00	2.00	2.00
Silt clay	2.00	2.00	2.00	2.00
Clay	2.00	2.00	2.00	2.00
Silt loam	2.00	2.00	2.00	2.00
Silt clay	2.00	2.00	2.00	2.00
Clay	2.00	2.00	2.00	2.00
Silt loam	2.00	2.00	2.00	2.00
Silt clay	2.00	2.00	2.00	2.00
Clay	2.00	2.00	2.00	2.00
Silt loam	2.00	2.00	2.00	2.00
Silt clay	2.00	2.00	2.00	2.00
Clay	2.00	2.00	2.00	2.00
Silt loam	2.00	2.00	2.00	2.00
Silt clay	2.00	2.00	2.00	2.00
Clay	2.00	2.00	2.00	2.00
Silt loam	2.00	2.00	2.00	2.00
Silt clay	2.00	2.00	2.00	2.00
Clay	2.00	2.00	2.00	2.00
Silt loam	2.00	2.00	2.00	2.00
Silt clay	2.00	2.00	2.00	2.00
Clay	2.00	2.00	2.00	2.00
Silt loam	2.00	2.00	2.00	2.00
Silt clay	2.00	2.00	2.00	2.00
Clay	2.00	2.00	2.00	2.00
Silt loam	2.00	2.00	2.00	2.00
Silt clay	2.00	2.00	2.00	2.00
Clay	2.00	2.00	2.00	2.00
Silt loam	2.00	2.00	2.00	2.00
Silt clay	2.00	2.00	2.00	2.00
Clay	2.00	2.00	2.00	2.00
Silt loam	2.00	2.00	2.00	2.00
Silt clay	2.00	2.00	2.00	2.00
Clay	2.00	2.00	2.00	2.00
Silt loam	2.00	2.00	2.00	2.00

Figure 1. Schematic representation of the experimental design. The subjects were divided into two groups: the control group (CG) and the experimental group (EG). The CG was divided into two subgroups: the control group (CG) and the experimental group (EG). The EG was divided into two subgroups: the control group (CG) and the experimental group (EG). The CG was divided into two subgroups: the control group (CG) and the experimental group (EG). The EG was divided into two subgroups: the control group (CG) and the experimental group (EG).

Relational Crops Rice & sugarcane are grown in rotation in the area.

1994 Drought State of the Environment Report: <http://www.drought.state.nv.us> in D33 D34 + (5/10/94)

Tank Mixture with Treftan—Beans (Dry—Kidney, Navy, Pinto, etc)

[illegible]

Apply DOL + Transition Tax using the appropriate DOL BE rate from Table 1, and the Transition rate from the DOL BEs, and the Limit of 25.00 percent, of the Indian EIC rate. Compute the product rate for the specific, identifiable capital matter classification and Affected Species page 103.

Before Enclava restrictions and regulations on the Syrian E.C. label and on the QUA and the period of this label.

Rotational Crops: Rotate the crop rotation instructions for DUA FLEX one on this label and for Ireland one on the label for Ireland.

Tank Mixture with Amibon—White, Navy, Kidney, Plato, and Lima Beans

Qual BE + A = 0.01304 m x applied pressure incorporated in emergency control to be applied using either Dual BE Applied Alone and these needs stated on the Anubena one and

[illegible]

Father, the Day of the Lord is coming, and the angels are standing at the gates of the Kingdom of Heaven, ready to receive the elect. Therefore, let us be ready, for we know not the day nor the hour when the Son of Man will come.

Rotational Crops - none to the crop rotation on this tract. Due to a long on the way to the field, the crops are not planted.

Tank Mixture with Sencer or Lefane

Arabs Gen. #3

Bainbridge grass	Pringle suppress	ye in hulseedge	plowed
blackgrass	red	black	ploughs
crabgrass	grass	black	ploughs
crowfootgrass	Brin	black	ploughs
full panum	southwestern	black	ploughs
giant fests	supress	black	ploughs
grass	grass	black	ploughs
grass	grass	black	ploughs
green data	ye	black	ploughs

Weeds Partia, Lonicera ed. localbut common parts are hairy nightshade, muscweed
Sage - seed to Johnsongrass & white's grass

On 22 Feb, the 3rd of 4th Marine Amphibious Brigade (MAB) was alerted to the possibility of a surprise attack on the island of Iwo Jima. The 3rd MAB was alerted to the possibility of a surprise attack on the island of Iwo Jima.

Age 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841

Refer to the Sender or Leader labels for precautionary statements, restrictions, application information and needs identified.

Note Do not use this tank mixture on much or peat soils.

Preparation Do not use DUE + Sender of License on prizes from County Center
73 100, 1300, 1500, 1800, 2100, 2400, 2700, 3000, 3300, 3600, 3900, 4200, 4500, 4800, 5100, 5400, 5700, 6000, 6300, 6600, 6900, 7200, 7500, 7800, 8100, 8400, 8700, 9000, 9300, 9600, 9900, 10200, 10500, 10800, 11100, 11400, 11700, 12000, 12300, 12600, 12900, 13200, 13500, 13800, 14100, 14400, 14700, 15000, 15300, 15600, 15900, 16200, 16500, 16800, 17100, 17400, 17700, 18000, 18300, 18600, 18900, 19200, 19500, 19800, 20100, 20400, 20700, 21000, 21300, 21600, 21900, 22200, 22500, 22800, 23100, 23400, 23700, 24000, 24300, 24600, 24900, 25200, 25500, 25800, 26100, 26400, 26700, 27000, 27300, 27600, 27900, 28200, 28500, 28800, 29100, 29400, 29700, 30000, 30300, 30600, 30900, 31200, 31500, 31800, 32100, 32400, 32700, 33000, 33300, 33600, 33900, 34200, 34500, 34800, 35100, 35400, 35700, 36000, 36300, 36600, 36900, 37200, 37500, 37800, 38100, 38400, 38700, 39000, 39300, 39600, 39900, 40200, 40500, 40800, 41100, 41400, 41700, 42000, 42300, 42600, 42900, 43200, 43500, 43800, 44100, 44400, 44700, 45000, 45300, 45600, 45900, 46200, 46500, 46800, 47100, 47400, 47700, 48000, 48300, 48600, 48900, 49200, 49500, 49800, 50100, 50400, 50700, 51000, 51300, 51600, 51900, 52200, 52500, 52800, 53100, 53400, 53700, 54000, 54300, 54600, 54900, 55200, 55500, 55800, 56100, 56400, 56700, 57000, 57300, 57600, 57900, 58200, 58500, 58800, 59100, 59400, 59700, 60000, 60300, 60600, 60900, 61200, 61500, 61800, 62100, 62400, 62700, 63000, 63300, 63600, 63900, 64200, 64500, 64800, 65100, 65400, 65700, 66000, 66300, 66600, 66900, 67200, 67500, 67800, 68100, 68400, 68700, 69000, 69300, 69600, 69900, 70200, 70500, 70800, 71100, 71400, 71700, 72000, 72300, 72600, 72900, 73200, 73500, 73800, 74100, 74400, 74700, 75000, 75300, 75600, 75900, 76200, 76500, 76800, 77100, 77400, 77700, 78000, 78300, 78600, 78900, 79200, 79500, 79800, 80100, 80400, 80700, 81000, 81300, 81600, 81900, 82200, 82500, 82800, 83100, 83400, 83700, 84000, 84300, 84600, 84900, 85200, 85500, 85800, 86100, 86400, 86700, 87000, 87300, 87600, 87900, 88200, 88500, 88800, 89100, 89400, 89700, 90000, 90300, 90600, 90900, 91200, 91500, 91800, 92100, 92400, 92700, 93000, 93300, 93600, 93900, 94200, 94500, 94800, 95100, 95400, 95700, 96000, 96300, 96600, 96900, 97200, 97500, 97800, 98100, 98400, 98700, 99000, 99300, 99600, 99900, 100200, 100500, 100800, 101100, 101400, 101700, 102000, 102300, 102600, 102900, 103200, 103500, 103800, 104100, 104400, 104700, 105000, 105300, 105600, 105900, 106200, 106500, 106800, 107100, 107400, 107700, 108000, 108300, 108600, 108900, 109200, 109500, 109800, 110100, 110400, 110700, 111000, 111300, 111600, 111900, 112200, 112500, 112800, 113100, 113400, 113700, 114000, 114300, 114600, 114900, 115200, 115500, 115800, 116100, 116400, 116700, 117000, 117300, 117600, 117900, 118200, 118500, 118800, 119100, 119400, 119700, 120000, 120300, 120600, 120900, 121200, 121500, 121800, 122100, 122400, 122700, 123000, 123300, 123600, 123900, 124200, 124500, 124800, 125100, 125400, 125700, 126000, 126300, 126600, 126900, 127200, 127500, 127800, 128100, 128400, 128700, 129000, 129300, 129600, 129900, 130200, 130500, 130800, 131100, 131400, 131700, 132000, 132300, 132600, 132900, 133200, 133500, 133800, 134100, 134400, 134700, 135000, 135300, 135600, 135900, 136200, 136500, 136800, 137100, 137400, 137700, 138000, 138300, 138600, 138900, 139200, 139500, 139800, 140100, 140400, 140700, 141000, 141300, 141600, 141900, 142200, 142500, 142800, 143100, 143400, 143700, 144000, 144300, 144600, 144900, 145200, 145500, 145800, 146100, 146400, 146700, 147000, 147300, 147600, 147900, 148200, 148500, 148800, 149100, 149400, 149700, 150000, 150300, 150600, 150900, 151200, 151500, 151800, 152100, 152400, 152700, 153000, 153300, 153600, 153900, 154200, 154500, 154800, 155100, 155400, 155700, 156000, 156300, 156600, 156900, 157200, 157500, 157800, 158100, 158400, 158700, 159000, 159300, 159600, 159900, 160200, 160500, 160800, 161100, 161400, 161700, 162000, 162300, 162600, 162900, 163200, 163500, 163800, 164100, 164400, 164700, 165000, 165300, 165600, 165900, 166200, 166500, 166800, 1671

Rotational Crops Refer to the crop rotation instructions for Olay at a one on in state and for Sensor (exceeds one on the Sensor or Legend) at 5.

*Note: Potatoes treated with Oda BE in tank mixes with Sango or Leaning cannot be harvested within 70 days after application. Potatoes may not be harvested within 40 days after a day-by application of Oda BE alone.

Dual BE + Lorox Tank Mixture (East of Rocky Mountains)

Use Dual BE + Lorox in combination with Premerge 3 for control of weeds in field and other grown woody ornamentals. Apply Dual BE + Lorox at the rate of 1 to 2 pints per acre. Apply Premerge 3 at the rate of 1 to 2 pints per acre. Apply Dual BE + Lorox at the rate of 1 to 2 pints per acre. Apply Premerge 3 at the rate of 1 to 2 pints per acre.

Table 23 Dual BE + Lorox — Potatoes (East of Rocky Mountains)

Soil texture	Broadcast rate per acre			
	1 to less than 3% organic matter		3 to 5% organic matter	
	Dual (Pts.)	Lorox* (Lbs.)	Dual (Pts.)	Lorox* (Lbs.)
Light	1.5	1.5	2	1.5
Medium	2	1.5	2.5	1.5
Heavy	2.5	1.5	3	1.5

*When using Dual BE + Lorox in combination with Premerge 3, use Dual BE + Lorox at the rate of 1 to 2 pints per acre. Apply Premerge 3 at the rate of 1 to 2 pints per acre. Apply Dual BE + Lorox at the rate of 1 to 2 pints per acre. Apply Premerge 3 at the rate of 1 to 2 pints per acre.

Dual BE + Premerge 3 Tank Mix

Dual BE may be applied in a tank mix combination with Premerge 3 as a preemergence broadcast application 1 to 3 days before potatoes emerge. Apply Dual BE + Premerge 3 at 1.5 to 3 pints per acre.

Note: Do not use on light sandy soils with less than 1% organic matter.

Refer to the Dual BE and Premerge 3 labels for the appropriate application rates and restrictions.

Relational Crops: Refer to the crop rotation instructions for Dual BE and Premerge 3 on this label and the Premerge 3 label.

Dual BE Alone and Combinations—Field and Other Grown Woody Ornamentals

To control the weeds indicated below for approximately 60 days, use one of the following:

- Dual BE:** Barnyardgrass, crowfootgrass, fall panicum, giant foxtail, goosegrass, green foxtail, large crabgrass, redroot pigweed, smooth crabgrass, yellow foxtail, yellow nut sedge, and other weeds listed for Dual BE alone on this label.
- Dual BE + Princep:** Galinsoga, lambsquarters, purple dead-nettle, smartweed, yellow nutsedge, and other weeds listed for Dual BE + Princep on this label.

Apply Dual BE alone or in combination with Princep at the rates shown below in a minimum of 15 gals. of water per acre. Direct the spray towards the base of established ornamentals or ornamentals transplanted a minimum of 10 days. Apply before weeds emerge or after removing existing weeds. Use the higher rate of Dual BE alone on the textured soil and where heavy infestations of grass weeds are expected. Use the lower rate of Dual BE on coarse textured soil and where light infestations of grass weeds are expected. Use the higher rate of Dual BE + Princep on the textured soils and where broadleaf weeds are expected to form a significant part of the infestation. Use the lower rate of Dual BE + Princep on coarse textured soil and where light infestations of broadleaf weeds are expected.

Apply Dual BE at 2.3 pints per acre or Dual BE at 2.3 pints per acre plus Princep at 1.6 to 2 pints per acre post transplant to the field or other grown woody ornamentals listed below. For band applications, use a proportional amount of herbicide. When using Princep 80W or Princep Caliber 90, use equivalent rates: 2 pints of 80W equals 1.25 lbs. of 80W or 1.1 lbs. of Caliber 90.

Apply Dual BE alone or Dual BE + Princep as recommended above to the following field and other grown ornamentals:

Dual BE Alone	Dual BE + Princep
*Asteraceae (Rhus spp.)	Honeysuckle (Lonicera spp.)
Azalea (Rhododendron spp.)	Ivy (Hedera spp.)
Hemlock	Japanese Knotweed (Fallopia japonica)
*Cotoneaster (Cotoneaster spp.)	*Juniper (Juniperus spp.)
Barberry (Berberis spp.)	Andromeda (Pieris spp.)
Mentor (Warty Wintergreen)	*Lecythidaceae (Eucommia spp.)
Bor (Tree) (Borax spp.)	Mountain Laurel (Kalmia spp.)
*Crabapple (Malus spp.)	*Osmanthus (Osmanthus spp.)
Dogwood (Cornus spp.)	Pachysandra (Pachysandra spp.)
Eucalyptus (Eucalyptus spp.)	Privet (Ligustrum spp.)
Firethorn (Pyracantha spp.)	Rosebay (Rhododendron spp.)
Persimmon (Diospyros spp.)	*Weigela (Weigela spp.)
Holly (Ilex spp.)	Yew (Taxus spp.)
*Bleed-through (Japanese)	*Glossy Japanese Hips

*Use Dual BE + Princep on these field and other grown ornamentals.

Note: Length of weed control may be reduced when ornamentals are stressed by drought or frost.

Precautions: Do not use on seedbeds or on cultivated crops. Do not use on greenhouses or other enclosed areas.

Storage and Disposal

Do not contaminate water. Do not feed to storage or disposal. Do not use Dual BE + Lorox in combination with Premerge 3. Do not use Dual BE + Lorox in combination with Premerge 3. Do not use Dual BE + Lorox in combination with Premerge 3.

This product may be stored at temperatures down to 30 degrees Fahrenheit.

Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING

The active ingredient in this product may cause skin sensitization reactions in certain individuals. Wear protective clothing, gloves, and goggles when handling this product. Causes skin and eye irritation. Do not get in eyes. Wash thoroughly with soap and water. Harmful if swallowed. Avoid breathing spray mist.

Harmful if swallowed. Wash immediately with soap and water. Wash thoroughly with soap and water. Avoid breathing spray mist.

First Aid: In case of skin contact, wash immediately with soap and water. Wash thoroughly with soap and water. Wash thoroughly with soap and water. Wash thoroughly with soap and water.

Environmental Hazards: Do not apply directly to any body of water. Do not apply where runoff is likely to occur. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply when weather conditions favor drift from treated area.

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U.S. Patent No. 4,070,369

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U.S. Patent No. 4,937,750

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Agriculture Division

Ciba-Geigy Corporation

Greenboro, North Carolina 27419

CGA 49L12J

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Dual®

8E

Herbicide

For weed control in corn,
cotton, pod crops, potatoes,
safflowers, soybeans,
peanuts, grain sorghum,
and woody ornamentals

Active Ingredient:
Metolachlor 2-chloro-N-
(2-ethyl-6-methylphenyl)-
N-(2-methoxy-1-methyl-
ethyl) acetamide... 86.4%

Inert ingredients: 13.6%

Total: 100.0%

Dual 8E contains 8 lbs
active ingredient per gal

See directions for use
in attached booklet.

EPA Reg. No. 100-597

Dual is trademark of

CIBA-GEIGY for

metolachlor

U.S. Patent No. 3,937,730

© 1982 CIBA-GEIGY
Corporation

2½ Gallons

U.S. Standard Measure

Keep Out of Reach of Children.

Warning

Precautionary Statements

Hazard to Humans and Domestic Animals

The active ingredient, metolachlor, may cause skin sensi-
tization reactions in certain individuals. Wear protective
clothing, gloves, and goggles while handling or using
this product. Causes skin and eye irritation. Do not get in
eyes. Do not get on clothing. Harmful if inhaled. Avoid
breathing spray mist.

First Aid: If inhaled, move to fresh air. If on skin, wash
with soap and water. If in eyes, flush with water for
15 minutes. If swallowed, do not induce vomiting. Seek
medical attention.

Environmental Hazards: Do not apply to water bodies.
Do not apply to areas where wildlife may be present.
Do not apply to areas where domestic animals may be present.

Storage: Store in original container. Do not use if
container is damaged. Do not use if contents are
solid or semi-solid.

Disposal: Dispose of empty container in accordance
with local regulations. Do not reuse.

Other Information: For more information, see the
attached booklet. For more information, see the
attached booklet.

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