

DOSAGE TABLE 6 (Michigan only):

Soil Texture	Broadcast Rates Per Acre			
	NORTRON E C (qt)	ANTON 4ES (qt)	Pyranin 80W (lbs)	FL (qt)
Coarse Textured Soils: Sandy loams only	4	1.5	3	or 2.5
Medium Textured Soils: Loams, sil loams and clay loams containing less than 3% organic matter	5.3	2	3	or 2.5
Fine Textured Soils: Clay loams and clays containing more than 3% organic matter	5.3	3	3	or 2.5

See 7969-50

NORTRON E C + TCA (tank-mix)

CENTRAL AND EASTERN STATES, INCLUDING MICHIGAN AND OHIO

The control of certain grass weeds, particularly yellow foxtail and barnyardgrass, can be enhanced by the use of this tank-mix.

Apply preemergence at time of planting or shortly after but prior to weed germination. Apply at rates recommended in Dosage Table 7. For use, read TCA label for additional information and precautions.

DOSAGE TABLE 7
(Central and Eastern States, including Michigan and Ohio):

Soil Texture	NORTRON E C/ACRE		TCA/ACRE ¹	
	Broadcast	7-inch Band ² 28" Row	Broadcast	7-inch Band ² 28" Row
Coarse Textured Soils: Sandy loams only	1 Gallon	2 Pints	3 Quarts	1½ Pints
Medium Textured Soils: Silt and clay loams which contain less than 3% organic matter	1½ Gallons	2½ Pints	1 Gallon	1 Quart
Fine Textured Soils: Clay loams which contain more than 3% organic matter and clays	2 Gallons	4 Pints	1 Gallon	1 Quart

¹ Based on commercial liquid formulation containing the equivalent of 6 pounds of dry 90% sodium TCA per gallon.

² For other band or row widths, adjust the rate in proportion to the area actually treated.

NORTH DAKOTA AND MINNESOTA ONLY

This tank-mix enhances the control of yellow foxtail (pigeongrass) and barnyardgrass, especially on fine-textured soils. Apply to the soil surface preplant or at time of planting and incorporate into the soil. Apply at recommended rates listed in Dosage Table B. Before use, read TCA label for additional information and precautions.

DOSAGE TABLE B (North Dakota and Minnesota only):

Soil Texture	RATE OF NORTRON E C / ACRE		RATE OF TCA/ACRE ⁽¹⁾	
	Broadcast	7-inch Band 22" Row	Broadcast	7-inch Band 22" Row
Coarse Textured Soils: Sandy loams	1½ Gallons	3¼ Pints	1½ Gallons	3¼ Pints
Medium Textured Soils: Clay loams and silt loams	2 Gallons	5 Pints	1½ Gallons	3¼ Pints
Fine Textured Soils: Heavy clays	2½ Gallons	6¼ Pints	1½ Gallons	3¼ Pints

⁽¹⁾ Based on commercial liquid formulation containing the equivalent of 5 pounds of dry 80% sodium TCA per gallon.

⁽²⁾ For other band or row widths, adjust the rate in proportion to the area actually treated.

EPTAM[®] (fall-applied) + NORTRON E C (spring-applied)

NORTH DAKOTA AND MINNESOTA ONLY (sequential treatment)

The control of certain weeds, particularly yellow foxtail and redroot pigweed, can be improved by the sequential treatment of Eptam 7E applied in the fall followed by a spring application of NORTRON E C. Furthermore, the addition of NORTRON E C provides up to 10 weeks' control of susceptible weeds. Apply Eptam 7E in the fall in accordance with directions on the label.

Apply NORTRON E C in the spring to the soil surface preplant or at the time of planting and incorporate into the soil. Apply at recommended rates listed in Dosage Table B. This sequential treatment is not recommended for use on coarse-textured soils.

Do not use in areas or under conditions where Eptam 7E is not recommended. Before use, read Eptam 7E label for additional information and precautions.

DOSAGE TABLE 8 (North Dakota and Minnesota only):

Soil Texture	NORTRON E C PER ACRE	
	Broadcast	7-inch Band Width ¹¹
		22" Row
Coarse Textured Soils: Sands, loamy sands and sandy loams	NOT RECOMMENDED	
Medium Textured Soils: Silt loams and clay loams	2 Gallons	5 Pints
Fine Textured Soils: Heavy clays	2 Gallons	5 Pints

¹¹For other band or row widths, adjust the rate in proportion to the area actually treated.

POSTEMERGENCE APPLICATION

(For use in California, Michigan, Ohio, Minnesota, and North Dakota only)

GENERAL INFORMATION

The tank-mixes of NORTRON E C plus Betanex and NORTRON E C plus Betamix applied post-emergence broaden and enhance the control of weeds. Furthermore, control of susceptible weeds which may germinate after treatment can be obtained provided overhead moisture is applied to activate NORTRON E C. The choice of tank-mixes is dependent upon weed species present.

NORTRON E C alone is not recommended for postemergence use.

Timing of Application:

Apply the tank-mix NORTRON E C + Betanex or NORTRON E C + Betamix when sugarbeets have at least 4 fully expanded true leaves. Apply at rates recommended in the Dosage Tables. Use the higher rate of NORTRON E C where increased residual weed control is desired. Where Eptam has been applied preplant (fall or spring-applied), do not apply NORTRON E C + Betanex or Betamix tank-mix before the sugarbeets have 6 expanded true leaves. Sugarbeets may be killed or severely injured if treated at earlier stages of crop growth. See Postemergence Use Precautions for additional information on proper use.

Mixing the Spray:

NORTRON E C, Betanex and Betamix are formulated as emulsifiable concentrates and are easily mixed. Add NORTRON E C to the water in the spray tank followed by Betanex or Betamix while agitating the spray solution thoroughly. Refer to the Betanex or Betamix labels for additional precautions and information on mixing.

Spray Equipment:

Apply the tank-mix using standard low pressure (20-60 psi) spray equipment. Ensure that the sprayer is thoroughly clean. Spray equipment should be carefully calibrated before use and checked frequently during application to see that it is functioning properly. Uniformly apply the recommended rate in 20-60 gallons of water per acre on a broadcast basis. Avoid overlaps, since crop injury may result. When applying in a band, check to make certain that the band width is accurate for the dosage rate being applied. Do not use strainer smaller than 50-mesh.

Moisture Following Application/Residual Weed Control:

Rainfall or sprinkler irrigation within 3 hours of spraying may reduce weed control, however, moisture after this period of time is advantageous for moving NORTRON E C into the 1-2" layer of soil where it

can be absorbed by the roots of sprayed and germinating weeds to provide optimum control. One-half inch or more of sprinkler irrigation is required to activate NORTRON E C on most soil types. Residual control of weeds is dependent upon soil moisture conditions, rate of herbicide used, and soil texture. The activity of NORTRON E C in the soil is reduced as the soil texture becomes finer and organic matter increases.

CAUTION:

MINNESOTA AND NORTH DAKOTA — Do not apply to crop which has been previously treated with NORTRON E C.

CALIFORNIA, MICHIGAN AND OHIO — Following a preemergence treatment of NORTRON E C, do not apply NORTRON E C postemergence where more than 2 gallons were applied preemergence. No more than a total of 2½ gallons of NORTRON E C should be applied in a single growing season. See Postemergence Use Precautions for additional information on proper use.

NORTRON E C + BETANEX® (tank-mix)

MICHIGAN, OHIO, MINNESOTA, AND NORTH DAKOTA ONLY

NORTRON E C applied postemergence in a tank-mix with Betanex broadens and enhances the control of troublesome weeds. Furthermore, preemergence control of susceptible weeds which may germinate following treatment can be obtained provided overhead moisture is sufficient to activate NORTRON E C.

Weed Species Controlled:

Group I: Weeds controlled up to the 4-leaf stage.

Redroot pigweed	<i>Amaranthus retrofractus</i>
Wild mustard	<i>Brassica kaber</i>
Nettleleaf goosefoot	<i>Chenopodium murale</i>
London rocket	<i>Sisymbrium irio</i>
Common lambsquarters	<i>Chenopodium album</i>

Group II: Weeds controlled up to the 4-leaf stage.

Common chickweed	<i>Stellaria media</i>
Black nightshade	<i>Solanum nigrum</i>
Common ragweed	<i>Ambrosia artemisiifolia</i>
Shepherdspurse	<i>Capsella bursa-pastoris</i>
Groundcherry	<i>Physalis lanceolata</i>
Pennsylvania smartweed	<i>Polygonum pennsylvanicum</i>
Ladysthumb	<i>Polygonum persicaria</i>

Group III: Weeds controlled up to the 2-leaf stage.

Annual sowthistle	<i>Sonchus oleraceus</i>
Kochia*	<i>Kochia scopulina</i>
Common purslane	<i>Portulaca oleracea</i>
Wild buckwheat	<i>Polygonum compositum</i>

*Spray kochia while in the rosette stage, less than 1" in diameter.

DOSEAGE TABLE 10 (Michigan, Ohio, Minnesota and North Dakota only):

Rate of Nortron E C Per Acre ¹					Rate of Betamix Per Acre ¹				
Broadcast Rate	Band ² Width (in)	Row Spacing			Broadcast Rate	Band ² Width (in)	Row Spacing		
		22"	28"	36"			22"	28"	36"
4-1		2-2½	1½-2½	1½-1½	4½-6		1½-2	1½-1½	1-1½
Gallons	7	Pnts	Pnts	Pnts	Pnts	7	Pnts	Pnts	Pnts

¹Use the high or rate on larger weeds and sugar beets.

²For other band or row widths, adjust rates in proportion to the area actually treated.

NORTRON E C + BETAMIXTM (tank-mix)

CALIFORNIA, MICHIGAN, OHIO, MINNESOTA AND NORTH DAKOTA ONLY

NORTRON E C applied postemergence in a tank-mix with Betamix broadens and enhances the control of troublesome weeds. Furthermore, preemergence control of susceptible weeds which may germinate following treatment can be obtained provided overhead moisture is sufficient to activate NORTRON E C.

Weed Species Controlled:

Group I: Weeds controlled up to the 6-leaf stage.

Redroot pigweed	<i>Amaranthus retrofractus</i>
Wild mustard	<i>Brassica kaber</i>
Nettleleaf goosefoot	<i>Chenopodium murale</i>
London rocket	<i>Sisymbrium</i>
Common lambquarters	<i>Chenopodium album</i>

Group II: Weeds controlled up to the 4-leaf stage.

Common chickweed	<i>Stellaria media</i>
Black nightshade	<i>Solanum nigrum</i>
Common ragweed	<i>Ambrosia artemisiifolia</i>
Shepherdspurse	<i>Capsella bursa-pastoris</i>
Groundcherry	<i>Physalis lanceolata</i>
Pennsylvania smartweed	<i>Polygonum pennsylvanicum</i>
Ladyshrub	<i>Polygonum persicaria</i>
Prostrate pigweed	<i>Amaranthus blitoides</i>
Coast bindweed	<i>Ampelopsis</i>

Group III: Weeds controlled up to the 2-leaf stage.

Annual sowthistle	<i>Sonchus oleraceus</i>
Kochia [*]	<i>Kochia scoparia</i>
Common purslane ^{**}	<i>Portulaca oleraceus</i>
Prostrate knotweed	<i>Polygonum aviculare</i>
Wild buckwheat	<i>Polygonum convolvulus</i>
Green foxtail ^{***}	<i>Setaria viridis</i>
Yellow foxtail	
(pigeongrass) ^{***}	<i>Setaria glauca</i>
Annual bluegrass ^{***}	<i>Poa annua</i>
Canarygrass ^{***}	<i>Phalaris canariensis</i>

^{*}Spray kochia while in the rosette stage, less than 1" in diameter.

^{**}Group II weed in California.

^{***}For best control, overhead moisture required.

DOSAGE TABLE 11 (California, Michigan, Ohio, Minnesota and North Dakota only):

Broadcast Rate	Rate of Nortron E C Per Acre**			Rate of Betanex Per Acre**		
	Band Width (in)	Row Spacing		Broadcast Rate	Band Width (in)	Row Spacing
4-1 Gallon	12"	36"	30"	4 1/2 Pints	32"	36"
	2-2 1/2 Pints	1 1/2-2 1/4 Pints	4 1/2-5 Pints	1 1/2-2 Pints	1 1/2 Pints	1 1/2 Pints

**Use the higher rate on larger weeds and sugar beets
or for other band or row widths, adjust rate in proportion to the area actually treated.

GENERAL USE PRECAUTIONS:

NORTRON E C or tank-mixes should be used for recommended purposes and at recommended rates only (DO NOT OVERTREAT).

Apply tank-mixes only in specified regions or states and in accordance with directions on label. Do not rotate with any other crops other than sugarbeets for 12 months after a preplant or preemergence application. Thorough tillage, including moldboard plowing, should precede the planting of crops other than sugarbeets.

If crop is lost due to climatic or soil conditions following application of NORTRON E C or tank-mixes, do not plant crops other than sugarbeets in treated land during the same season. Do not retreat field with NORTRON E C if label is repainted to sugarbeets, reseed into treated band.

Do not mix NORTRON E C or tank-mixes with liquid fertilizers.

Do not allow spray mixture to stand in tank overnight. Flush and drain spray equipment after each day's use. Store unused spray mixture in tightly-sealed containers and protect from frost.

Do not use NORTRON E C in water having a temperature below 40°F., as crystallization of spray mixture may occur in the nozzles and strainers.

PREPLANT AND PREEMERGENCE USE PRECAUTIONS:

NORTRON E C applied alone or in tank-mixes according to label directions and under normal growing conditions may cause temporary leaf burn, distortion and stunting. Crop injury may occur during early growth when crop is stressed due to herbicide residue carryover, highly saline or alkaline soils, unusually cold and wet weather or improperly placed fertilizers or soil insecticides.

Unusually dry, windy weather following application of NORTRON E C, which dries the upper soil layer, may reduce effectiveness.

Where NORTRON E C is used in a tank-mix with TCA, do not use treated sugar beet tops for feed or forage.

POSTEMERGENCE USE PRECAUTIONS:

Make only one application of NORTRON E C + Betanex or Betanex tank-mix during each growing season.

Do not apply NORTRON E C + Betanex or Betanex tank-mix to sugarbeets later than 80 days prior to harvest.

Crop Planting Precautions: If crop is lost due to unfavorable growth conditions following treatment, do not replant with crops other than sugarbeets in treated land during the same season. If fields are replanted to sugarbeets, reseed into treated band. Do not retreat field with NORTRON E C in the same season.

NORTRONE C + BETANEX OR BETAMIX MAY CAUSE SUGARBEET INJURY OR STAND LOSS IF THE CROP IS UNDER STRESS FROM ONE OR MORE OF THE FOLLOWING CONDITIONS.

Rapid climatic change from cool, overcast days, to hot (80°F or over), bright days. When the air temperature is, or is likely to be, above 80°F on the day of spraying, application should be made in the evening when the temperature is lower.

Frost within seven days following treatment.

Windy or drought conditions.

Use of preplant or preemergence herbicides or other chemicals.

Insect or disease injury.

Close cultivation.

If stress conditions are present, delay application until crop has recovered.

DO NOT OVER-TREAT. The use of higher than recommended rates may cause crop injury.

Do not spray while dew is present.

Rentail or sprinkler irrigation within 6 hours of application may reduce weed kill.

Do not allow spray drift to contact adjacent crops which may be injured by spray drift.

IMPORTANT

This tank-mix may cause temporary growth retardation and/or chlorosis or tip-burn of sugarbeets. Sugarbeets usually resume normal growth within 10 days.

DISCLAIMER OF WARRANTIES: THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of BFC Chemicals, Inc. is authorized to make any warranties beyond those contained herein or modify the warranties contained herein. UNDER NO CIRCUMSTANCES SHALL BFC CHEMICALS, INC. BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM FAILURE TO USE THIS PRODUCT IN ACCORDANCE WITH LABEL DIRECTIONS.

"Pyramin" is a registered trademark of BASF Aktiengesellschaft.

"Eplam" is a registered trademark of Stauffer Chemical Company.

"Betanex" is a registered trademark of Schering A.G. Berlin/Bergkamen.

"Betamix" is a trademark of Schering A.G. Berlin/Bergkamen.

4091-15-20

BEST DOCUMENT AVAILABLE

NORTRON^{EC}

HERBICIDE

For selective control of weeds in sugarbeets

ACTIVE INGREDIENT:

Ethofumesate: (2, ethoxy-2,3-dihydro-3,3-dimethyl-5-benzofuranyl methanesulfonate*)

INERT INGREDIENTS:

Percent
by Weight

19%

81%

Total 100%

*Protected by U.S. Patent No. 3,689,507

This product contains 1.5 lb. active ingredient per gallon.

EPA REGISTRATION NO. 45639-5

PRECAUCION AL USARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

KEEP OUT OF REACH OF CHILDREN

DANGER

CORROSIVE. CAUSES EYE DAMAGE.

WEAR GOGGLES OR FACE SHIELD WHEN HANDLING.

IF SWALLOWED — DRINK PROMPTLY A LARGE QUANTITY OF MILK, EGG WHITES, GELATIN SOLUTION OR IF THESE ARE NOT AVAILABLE, DRINK LARGE QUANTITIES OF WATER. AVOID ALCOHOL. CALL A PHYSICIAN.

IF ON SKIN — FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES

IF IN EYES — IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN.



SFC Chemicals, Inc.
4311 Lancaster Pke., P.O. Box 2887
Wilmington, DE 19805

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

DANGER

Corrosive. Causes eye damage. Do not get in eyes. Wear goggles or face shield when handling. Harmful if absorbed through skin. Avoid contact with skin.

FIRST AID — In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Get medical attention if skin irritation persists. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS — Do not apply directly to water. Do not apply when weather conditions favor drift from treated area. Do not contaminate water by cleaning of equipment or disposal of wastes.

PHYSICAL OR CHEMICAL HAZARDS — Do not use, pour, spill or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Read entire Directions for Use and Disclaimer of Warranties before using this product.

STORAGE AND DISPOSAL

STORAGE

Store NORTON E C in a cool place above 34°F. Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

PESTICIDE DISPOSAL

Pesticide, spray mixture, or residue that cannot be used according to label instructions must be disposed of according to federal, state or local procedures under the Resource Conservation and Recovery Act.

CONTAINER DISPOSAL

Triple rinse (or equivalent) and offer for recycling or reconditioning, or dispose of in a sanitary landfill, or by other approved state and local procedures.

Consult federal, state or local disposal authorities for approved alternative procedures.

CANNgraphics September 1, 1982

GENERAL INFORMATION

NORTRONE C is a selective herbicide for use in sugar beets for the control of the weed species listed below. It provides effective control weeds for up to 10 weeks following application.

Weed Species Controlled

Annual Broadleaf Weeds

Black nightshade
Common chickweed
Common lambsquarters
Common purslane
Kochia
Ladysthumb
Pennsylvania smartweed
Redroot pigweed
Russet thistle
Wild buckwheat

Solanum nigrum
Stellaria media
Chenopodium album
Portulaca oleracea
Kochia scoparia
Polygonum persicaria
Polygonum pennsylvanicum
Amaranthus retrofractus
Salsola kali var. *tenuifolia*
Polygonum convolvulus

Annual Grass Weeds

Annual bluegrass
Barnyardgrass**
Canarygrass
Green foxtail
Large crabgrass
Volunteer barley
Volunteer wheat
Wild oats**
Yellow foxtail

Poa annua
Echinochloa crus-galli
Phalaris canadensis
Setaria viridis
Digitaria sanguinalis
Hordeum sp.
Triticum sp.
Avena fatua
Setaria glauca

*Control of barnyardgrass may be reduced with the NORTRONE C + Pyramin because of the lower rate of NORTRONE C recommended.

**Control of wild oats has been inconsistent in Minnesota and North Dakota.

NORTRONE C alone will also reduce competition from these HARD-TO-CONTROL weeds.

Annual couchgrass
Puncturevine
Shepherdspurse
Purple nutsedge
Yellow nutsedge

Sonchus oleraceus
Trifolium terrestris
Capsella bursa-pastoris
Cyperus rotundus
Cyperus esculentus

PREPLANT INCORPORATED AND PRE-EMERGENCE APPLICATIONS

SOIL PREPARATION: The soil should be prepared according to good agricultural practices. Large clods can reduce the effectiveness of NORTRONE C and tank-mixes. All existing vegetative growth should be thoroughly worked into the soil before treatment.

SPRAY EQUIPMENT: Apply NORTRONE C alone or in tank-mixes to the soil using standard low pressure (20-50 psi) spray equipment. Spray equipment should be carefully calibrated before use and checked frequently during application to see that it is functioning properly. Do not use smaller than 50-mesh strainer. Uniformly apply the recommended rates of NORTRONE C or NORTRONE C tank-mixes in 20-60 gallons of water per acre on a broadcast basis. Avoid overlaps since crop injury may result. When applying NORTRONE C or tank-mixes in a band, check to make certain that the band width is accurate for the dosage rate being applied.

The spray tank and lines should be thoroughly cleaned and rinsed prior to using NORTRONE C.

INCORPORATION EQUIPMENT: Where soil incorporation is recommended use a hooded power or ground-driven rotary tiller, rolling cultivator or similar equipment properly adjusted to uniformly incorporate NORTRONE C or tank-mixes to a depth of 1 to 2 inches. Deeper incorporation may

reduce effectiveness. Do not apply NORTRON E C or tank-mixes through soil injector shanks. Incorporation should be accomplished prior to planting, or if done after planting, proper precautions should be taken to avoid damaging or moving the crop seed. See below for Layering Application.

LAYERING APPLICATION:

Spring: Form beds with appropriate bedding equipment. Pre-irrigate field if necessary. Remove bed top with suitable de-ridding machinery to provide a minimum width of 10" across the top of the bed. Apply NORTRON E C in a band at the recommended rate indicated in the appropriate regional dosage table and cover the treated band with 1 inch of soil using ditchers or discs equipment. Shape the bed with roller shaper and engage until the top of the beds are thoroughly wetted. Irrigate from furrows on both sides of the row.

Fall: This method of application can be used when spring moisture is marginal or where irrigation water is not available at planting time. Fall bedding utilizes the winter-accumulated moisture to enhance activation of the herbicide and to aid in germination of the sugar beet crop.

Prepare the field (as for planting, plow, pack, and float, etc.), in the fall, usually late September or October. Apply NORTRON E C in a band to the soil surface at the recommended rate indicated in the appropriate regional dosage table. Be sure that the soil surface to be treated is free from trash and vegetation.

Cover the treated bands with soil and form beds or ridges using ditchers or discs. In the spring when the soil is sufficiently dry to be worked, de-ridge the beds down to within 1/2" to 1" of the treated layer using suitable equipment such as the Kitchner bedder or Oregon Northslope harrow. When de-ridging, maintain the original bedding guidance system by using a bull tongue chisel, slide guides or similar equipment. This will ensure that the planter will follow in the treated band. Plant sugar beets in the de-ridged area when the soil conditions allow.

MIXING DIRECTIONS: When mixing NORTRON E C in the spray tank with Pyramin or TCA, add NORTRON E C first. Agitate spray solution thoroughly and continuously. See Pyramin label for additional mixing directions.

GENERAL APPLICATION

Sugarbeets grown under rainfall: Apply NORTRON E C alone or in a tank-mix preemergence at time of planting or shortly after, but prior to weed germination. NORTRON E C or tank-mix does not require mechanical soil incorporation provided that sufficient rainfall occurs shortly following application to activate the chemical. One-half inch of rainfall is usually adequate for activation. In areas where rainfall can be marginal for activation, such as the Red River Valley (Minnesota and North Dakota), it is recommended that NORTRON E C or the tank-mix be applied before or at the time of planting and incorporated into the soil.

Sugarbeets grown under furrow irrigation: Apply NORTRON E C alone or in a tank-mix to the soil surface preplant or at time of planting, but prior to weed germination, and incorporate into the soil. Where sugarbeets are grown in beds, apply NORTRON E C or tank-mix after bedding and incorporate. Since NORTRON E C or tank-mix must have moisture to control weeds effectively, irrigate until tops of beds are thoroughly wetted.

Sugarbeets grown under sprinkler irrigation: Apply NORTRON E C alone or in tank-mix preemergence at time of planting or shortly after, and irrigate prior to crop and weed germination. Repeat irrigation as necessary to maintain good moisture in upper soil layer. Apply at least one-half inch of water during first irrigation. Do not mechanically incorporate NORTRON E C or tank-mix into the soil under sprinkler irrigation.

CULTURAL PRACTICES FOLLOWING APPLICATION:

When properly applied, NORTRON E C alone or in a tank-mix will provide up to 10 weeks control of susceptible weed species. When cultivating fields in which NORTRON E C or tank-mixes have been banded, care should be exercised to minimize the movement of untreated soil into the treated band. Where a broadcast application has been made, do not cultivate deeper than two inches or this reduces the effectiveness of NORTRON E C or tank-mixes.

NORTON E C ALONE

DOSAGE TABLE 1 (All Regions Except North Dakota and Minnesota):

Soil Texture	RATE OF NORTON E C PER ACRE ⁽¹⁾			
	Broadcast	7-inch Band Width ⁽¹⁾		
		22" Row	26" Row	30" Row
Coarse Textured Soils: Sands, loamy sands and sandy loams	¾ to 1½ Gallons	2 to 3½ Pints	1½ to 2½ Pints	1½ to 2½ Pints
Medium Textured Soils: Silt loams, clay loams which contain less than 3% organic matter	1½ to 2 Gallons	3½ to 5 Pints	2½ to 4 Pints	2½ to 3½ Pints
Fine Textured Soils: Clay loams which contain more than 3% organic matter and clays	2 to 2½ Gallons	5 to 6½ Pints	4 to 5 Pints	3½ to 4½ Pints

- ⁽¹⁾ Use the higher rate within each soil texture category on the finer texture soils and/or where Kochia, barnyardgrass or black nightshade are expected to be a problem.
⁽²⁾ For other band or row widths, adjust the rate in proportion to the area actually treated.

DOSAGE TABLE 2 (North Dakota and Minnesota only):

Soil Texture	NORTON E C / ACRE	
	Broadcast	7-inch Band Width ⁽¹⁾
		22" Row
Coarse Textured Soils: Sandy loams only	2 Gallons	5 Pints
Medium Textured Soils: Silt loams and clay loams	2 Gallons	5 Pints
Fine Textured Soils: Heavy clays	2½ Gallons	6½ Pints

- ⁽¹⁾ For other band or row widths, adjust the rate in proportion to the area actually treated.

NORTRON E C + ANTOR* 4 ES (tank-mix)

CALIFORNIA ONLY

The tank-mix controls these additional weeds:

<i>Italian ryegrass (annual)</i>	<i>Lolium multiflorum</i>
<i>Annual sowthistle</i>	<i>Sonchus oleraceus</i>
<i>Fall panicum</i>	<i>Panicum dichotomiflorum</i>
<i>Portulac mallow</i>	<i>Setaria italica</i>
<i>Groundcherry</i>	<i>Physalis longifolia</i>
<i>Juncifera</i>	<i>Echinochloa colonum</i>
<i>Prostrate pigweed</i>	<i>Amaranthus biocoloratus</i>
<i>Shepherdspurse</i>	<i>Capsella bursa-pastoris</i>
<i>Witchgrass</i>	<i>Panicum capillare</i>

NORTRON E C + ANTOR 4 ES tank-mix may be applied preplant incorporated where furrow irrigation is practiced using shallow incorporation implements such as rolling cultivators or harrows, or using power tillers set to a depth of 1-2 inches.

Preemergence applications of NORTRON E C + ANTOR 4 ES tank-mix may be used when application is followed by sprinkler irrigation prior to weed germination and crop emergence, or where rainfall can be expected to occur within 7-10 days after application.

ANTOR 4 ES may also be utilized in sequential applications with NORTRON E C where a broadcast preemergence treatment of ANTOR 4 ES is followed by a band overlay of NORTRON E C preemergence. The same dosage rates should be used as in the tank-mix.

Refer to the Dosage Table 3 for recommended rates.

Before use, read the ANTOR 4 ES label for additional information and precautions.

DOSAGE TABLE 3 (California only):

Soil Texture	ANTOR 4ES PER ACRE ¹	NORTRON EC PER ACRE ²
Coarse: Loamy sands and sandy loams	1.5 Quarts	4 Quarts
Medium: Loams and silty loams	2 Quarts	5.5 Quarts
Fine: Clay loams and clays	3 to 4 Quarts ²	6.6 Quarts

¹ See section on Band Applications for calculations of proportional amounts.
² Use higher rate on heavy clay soils.

NORTRON E C + PYRAMIN[®] (tank-mix)

The tank-mix controls these additional broadleaf weeds:

Annual sowthistle	<i>Sonchus oleraceus</i>
Black mustard	<i>Brassica nigra</i>
Buffalobur	<i>Solanum rostratum</i>
Coast fiddleneck	<i>Amaranthus retrofractus</i>
Common groundsel	<i>Senecio vulgaris</i>
Common ragweed	<i>Ambrosia artemisiifolia</i>
Cutleaf nightshade	<i>Solanum elaeagnifolium</i>
Groundcherry	<i>Physalis spp.</i>
Henbit	<i>Lamium amplexicaule</i>
Henbit goosefoot	<i>Chenopodium murale</i>
Picky lettuce	<i>Lactuca scariola</i>
Prostrate knotweed	<i>Polygonum aviculare</i>
Shepherdspurse	<i>Capsella bursa-pastoris</i>

CALIFORNIA (winter-grown sugarbeets only)

Under sprinkler irrigation or where natural rainfall is adequate, apply this tank-mix preemergence. See Pyramin label for precautions regarding application of sprinkler irrigation. Where furrow irrigation is to be used, apply preplant incorporated. Prepare seedbed or form beds for planting. Then use rotary tiller type of incorporation and incorporate not more than 2 inches deep. Plant sugarbeets and engage. Sub-irrigate until tops of beds are thoroughly wetted.

DOSEAGE TABLE 4 (California, winter-grown sugarbeets only):

Soil Texture	NORTRON E C PER ACRE		PYRAMIN PER ACRE	
	Broadcast (For calibration purposes only)	10-inch Band Width ¹ 30" Row	Broadcast (For calibration purposes only)	10-inch Band Width ¹ 30" Row
Coarse Textured Soils: Sands, loamy sands and sandy loams	NOT RECOMMENDED			
Medium Textured Soils: Silt loams, clay loams which contain less than 3% organic matter	1 to 1 1/4 Gallons	2 1/2 to 3 1/2 Pints	4 Pounds	1 1/2 Pounds
Fine Textured Soils: Clay loams which contain more than 3% organic matter and clays	1 1/2 to 1 3/4 Gallons	3 1/2 to 4 1/2 Pints	4 Pounds	1 1/2 Pounds

¹ For other band or row widths, adjust rates in proportion to the area actually treated. Do not apply this mixture broadcast.

² Use the higher rate of NORTRON E C within each soil texture category on the finer-textured soils and/or where volunteer barley or wheat are expected to be a problem.

PRECAUTIONS: Do not exceed 1/2 inch of sprinkler irrigation per set until the beets have two true leaves. Do not use the tank-mix under conditions where Pyramin alone is not recommended. Before use, read the Pyramin label for additional information and precautions.

CENTRAL AND EASTERN STATES, INCLUDING MICHIGAN AND OHIO

This tank-mix controls the additional weed, common ragweed, and other broadleaf weeds specified in the weed table. Apply preemergence at the time of planting or shortly after, but before weed germination using recommended rates listed in Dosage Table 5. Do not mechanically incorporate the herbicides into the soil as crop injury may result. Do not use this tank-mix where Pyramin alone is not recommended. Before use, read Pyramin label for additional information and precautions.

DOSAGE TABLE 5 (Central and Eastern States only):

Soil Texture	NORTRON E C /ACRE			PYRAMIN/ACRE		
	Broad- cast	7-inch Band Width ¹		Broad- cast	7-inch Band Width ¹	
		22" Row	28" Row		22" Row	28" Row
Coarse Textured Soils: Sandy loams only	1 Gallon	2 1/2 Pints	2 Pints	3 Pounds	1 Pound	3/4 Pound
Medium Textured Soils: Silt and clay loams which contain less than 3% organic matter	1 1/2 Gallons	3 1/2 Pints	2 1/2 Pints	4 Pounds	1 1/4 Pounds	1 Pound
Fine Textured Soils: Clay loams which contain more than 3% organic matter and clays	1 1/2 Gallons	4 1/4 Pint	3 1/2 Pints	4 Pounds	1 1/4 Pounds	1 Pound

¹ For other band or row widths, adjust the rate in proportion to the area actually treated.

NORTRON E C + ANTOR 4ES + PYRAMIN (tank-mix)

A tank-mix of NORTRON EC + ANTOR 4ES + Pyramin may be used in Michigan for control of the seasonal weeds.

Common ragweed
Wild mustard
Italian ryegrass (annual)
Annual sowthistle
Fall panicum
Foxtail millets
Groundcherry
Juncos
Prostrate pigweed
Shepherdspurse
Witchgrass
Verbit
Famweed (henweed)

Ambrosia artemisiifolia
Brassica kaber
Lolium multiflorum
Sorghum bicolor
Panicum dichotomiflorum
Setaria italica
Physalis longifolia
Echinochloa colonum
Amaranthus albidus
Cephaelis bursa-pastoris
Panicum capillare
Lactuca ampullacea
Thlaspi arvense

For preemergence use without irrigation, apply the tank-mix to the soil surface at the time of planting or shortly after, but prior to weed germination. Use rates recommended in Dosage Table 5.

Do not use this mixture under conditions where Pyramin alone is not recommended. Before use, read the Pyramin and ANTOR 4ES labels for additional information and precautions.