



U.S. ENVIRONMENTAL PROTECTION AGENCY  
 Office of Pesticide Programs  
 Registration Division (H7505C)  
 401 "M" St., S.W.  
 Washington, D.C. 20460

EPA Reg. Number:

42545-52

Date of Issuance:

01/23/93

Term of Issuance:

Conditional Expires  
 June 30, 1994

Name of Pesticide Product:

Tough 3.75 EC

NOTICE OF PESTICIDE:  
 Registration  
 Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Agrolinz, Inc.  
 6525 Quail Hollow, Suite 107  
 Memphis, TN 38120-4422

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

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

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

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(C) provided that you:

1. Add the phrase "EPA Registration No. 42545-52" to your labeling prior to releasing your product for shipment.
2. You must submit a new anaerobic soil metabolism study, conducted in accordance with GRN 162-2. These data must be received by the Agency by April 30, 1993.
3. Under Environmental Hazards, delete the third sentence and replace it with "Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark."
4. Submit five (5) copies of your revised final printed label for the record.

Signature of Approving Official:

151

Date:

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy is enclosed for your records.

Sincerely,

Cynthia Giles-Parker  
Product Manager (22)  
Fungicide-Herbicide Branch  
Registration Division (H7505C)

Enclosure

PHCO 42545-52

20418

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

42545-52

**TOUGH 3.75 EC**

**FOR THE POSTEMERGENCE CONTROL OF  
ANNUAL WEEDS IN PEANUTS AND CORN**

**ACTIVE INGREDIENT:**

Pyridate*	.....	45%
INERT		
INGREDIENTS:	.....	55%
Total		100%

\*O-(6-chloro-3-phenyl-4-pyridazinyl)-S-octyl-carbonothioate  
Contains 3.75 lbs. of pyridate per gallon of product.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION - CAUCION**

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

**STATEMENT OF PRACTICAL TREATMENT**

**IF SWALLOWED:** Do not induce vomiting. Get medical attention.  
Contains petroleum distillates.

**IF ON SKIN:** Wash with plenty of soap and water. Do not reuse  
contaminated clothing until washed. Get medical attention if  
irritation persists.

**IF IN EYES:** Flush with plenty of water for 10-15 minutes. Get  
medical attention.

**NOTE TO ATTENDING PHYSICIAN:** May cause chemical pneumonitis if  
aspirated. If lavage is performed, suggest endotracheal and/or  
esophagosopic control.

EPA Est. No.  
3362-AT-02  
42545-MO-1

Agrolinz, Inc.  
1669 Kirby Parkway  
Suite 100  
Memphis, TN 38120  
Phone: (901)756-4422  
Fax: (901) 757-9367

EPA Reg. No.  
42545

Net Contents 2.5 gallons / 9.45 liters

Precautionary Statements

**SEE OTHER PANELS FOR ADDITIONAL PRECAUTIONARY STATEMENTS**

# CAUTION

## HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if swallowed. Avoid breathing spray mist. Avoid contact with eyes, skin, or clothing. In case of contact immediately flush eyes or skin with plenty of water. Product may cause skin sensitization in some individuals. Get medical attention if irritation persists. If swallowed, contact your local poison control center, hospital, or physician. Do not apply this product in such a manner to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

NOTE TO PHYSICIAN: Treat symptomatically. There is no specific antidote. If this product is ingested, induce emesis or lavage stomach. The use of an aqueous slurry of activated charcoal may be considered.

## ENVIRONMENTAL HAZARDS

Do not contaminate water intended for irrigation or domestic purposes. Runoff may adversely affect nontarget plants. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Do not contaminate water when disposing of equipment washwater or rinsate. This pesticide is toxic to estuarine organisms.

## PHYSICAL AND CHEMICAL HAZARDS

Keep away from heat or open flame.

## AGRICULTURAL CHEMICAL

DO NOT SHIP OR STORE WITH FOODS, FEEDS, DRUGS, OR CLOTHING.

**DIRECTIONS FOR USE**

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

**RE-ENTRY STATEMENT:**

Do not enter treated areas without protective clothing until sprays have dried. Protective clothing should include: hat or other suitable head covering, long sleeved shirt and long legged trousers, or a coverall type garment, shoes and socks. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. The front panel PRECAUTIONARY STATEMENTS should be read to workers as well as the instruction not to enter until sprays have dried. When oral warnings are given, warnings shall be given in a language customarily understood by the workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers.

Written warnings must include the following information: **CAUTION:** Area treated with pyridate on (date of application). Do not enter without appropriate protective clothing until sprays have dried. (Insert here statement of practical treatment as shown on front panel).

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or by disposal.

**Storage:** Store unused product in original container only in cool, dry area out of reach of children and animals. Keep storage locked.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed on site or at an approved disposal facility.

**Container Disposal:** Triple rinse (or equivalent) adding rinsate to spray tank, then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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549

**GENERAL INFORMATION**

**Biological Activity:** TOUGH 3.75 EC is a contact herbicide that is mixed with water and applied as a postemergence spray for the selective control of certain broadleaf weeds.

TOUGH 3.75 EC is formulated as an emulsifiable concentrate containing 3.75 pounds of active ingredient per gallon of product.

TOUGH 3.75 EC is rapidly absorbed by leaves. It penetrates into both sensitive and tolerant plants but is quickly broken down and inactivated in tolerant crops such as peanuts and corn. In sensitive weeds activity is evident by marginal yellowing, followed by yellowing and browning of the entire leaf. This visible evidence generally occurs within 4-7 days of application. Activity is more rapid at higher temperatures and under good growing conditions. Weed control under drought conditions may be decreased.

Uptake of TOUGH 3.75 EC is very rapid. Rainfall 1-2 hours after application has little effect on the degree of control.

TOUGH 3.75 EC rapidly decomposes in the soil and has no effective preemergence or residual control.

Peanuts are very tolerant to TOUGH 3.75 EC at any stage of growth.

**Mixing:** Fill the spray tank 1/2 full with water. Add the required amount of TOUGH 3.75 EC, mix thoroughly and continue filling. Maintain sufficient agitation during mixing and spraying to insure a uniform spray mixture.

In tank mixes, after the spray tank is 1/2 full of water first add the wettable powders or dry flowables. Agitate. Add any aqueous flowables. Agitate. Add any emulsifiable liquids and TOUGH 3.75 EC last.

NOTE: Agitation must be provided during mixing and spraying to ensure a uniform spray mixture. Spray mixture should be used immediately and not stored.

**Application:** TOUGH 3.75 EC is noncorrosive to spray equipment. Apply TOUGH 3.75 EC with a boom sprayer properly calibrated to a constant speed and delivery. TOUGH 3.75 EC should be applied in sufficient water (minimum of 20-30 gallons per acre), at 30-40 psi. Thorough coverage of the weeds is important for best results. Large crop and weed canopies shelter smaller weeds and prevent adequate coverage. Do not apply when conditions for drift can carry spray to non-target areas. Do not combine TOUGH 3.75 EC with liquid fertilizer solutions, adjuvants or other pesticides except as specifically directed on this label. Do not apply this product through any type of irrigation equipment.

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**PEANUT**

**Timing:** TOUGH 3.75 EC is recommended to be used as part of a sequential and seasonal peanut herbicide program. Depending on the weed spectrum it should be applied at cracking or postemergence following standard recommended preplant, preplant incorporated, preemergence or other at-cracking programs of such herbicides as: Balan 1.5 LC\*, Vernam 7E, Dual 8E, Lasso 4 EC, Prowl 4\*, and Amiben DS\*. See the labels of these herbicides for specific rates and timings.

Application of TOUGH 3.75 EC must be carried out after the susceptible target weeds have germinated and are in the 2 to 4 leaf stage and 2 to 3 inches in height or less. Early timing is the key to good weed control.

Delay in spraying which permits weeds to grow beyond the proper application time may result in poor control. A cultivation may be necessary if all weeds are not controlled or if weeds regrow.

Do not treat within 68 days of harvest. Do not apply when conditions favor drift which can carry spray to adjacent sensitive non-target areas.

**CORN**

**TIMING:** TOUGH 3.75 EC is most effective on actively growing weeds in the 1-4 true leaf stage.

A delay in spraying which permits weeds to grow beyond the proper application time may result in poor control. If weeds are under stress and not actively growing, they are harder to kill. Scout your fields 14-16 days after planting to determine exact timing for application. A cultivation may be necessary after application if all weeds are not properly controlled or if weeds regrow.

Do not apply TOUGH 3.75 EC to corn within 68 days of harvest.

Do not apply when conditions favor drift which can carry spray to adjacent sensitive non-target areas.

**USE DIRECTIONS**

Refer to the WEED CHART for specific weed information.

**USE ON PEANUT**

Peanut plants are tolerant to TOUGH 3.75 EC at all stages of development. However, for optimal control and minimal competition to the crop, timing of application must be based on the stage of weed growth.

**RESTRICTIONS**

Do not graze or otherwise feed treated peanut hay and peanut vines to livestock.

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**OPTION 1 - TOUGH 3.75 EC AT CRACKING:** Apply TOUGH 3.75 EC in a tank mix with Dual or Lasso when the weeds are in the 1-3 leaf stage.

Tank mix 2 pints of TOUGH 3.75 EC with 2-4 quarts of Lasso 4 EC, or with 1.5-3 pints of Dual 8E. Read product labels carefully before using products.

**OPTION 2 - TOUGH 3.75 EC POST-EMERGENCE TREATMENT AGAINST CERTAIN ANNUAL BROADLEAF WEEDS:** 2-3 pints of TOUGH EC will control certain broadleaf weeds at the 2-4 leaf stage and when they are 2-3 inches high.

TOUGH 3.75 EC can be applied at any crop stage without burning the peanuts.

Application should be made when most of the weeds have germinated and weeds are in the 2-4 leaf stage.

**OPTION 3 - TOUGH 3.75 EC PLUS 2,4-DB IN TANK MIX COMBINATION:** For the control of a broad spectrum of broadleaf weeds, combine 2-3 pints of TOUGH 3.75 EC with 1 pint to 1-3/4 pints of a 1.75 pounds 2,4-DB Amine (Butoxone) or .9 pints to 1.6 pints of 2 pounds of 2,4-DB Amine (Butoxone 200) per acre. Apply when the weeds are in the 2-4 leaf stage.

**SPECIAL USE DIRECTIONS**

Yellow and Purple Nutsedge (C. esculentus, Cyperus rotundus): Yellow and purple nutsedge are suppressed significantly with TOUGH 3.75 EC. Apply TOUGH 3.75 EC at the 2-3 pint/acre rate when the sedges are 6-8 inches high. TOUGH 3.75 EC will burn back the top growth of nutsedge. Regrowth may occur.

TOUGH 3.75 EC can be applied at any stage of the crop.

- \* Butoxone is a registered trademark of Cedar Chemical Corp.
- \* Balan is a registered trademark of Dow Elanco.
- \* Vernam is a registered trademark of ICI.
- \* Dual is a registered trademark of Ciba-Geigy Agricultural Products Co.
- \* Lasso is a registered trademark of Monsanto Co.
- \* Prowl is a registered trademark of American Cyanamid Corp.
- \* Amiben DS is a registered trademark of Rhone Poulenc Ag Co.

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**USE ON FIELD CORN**

Field corn is tolerant to TOUGH 3.75 EC at all stages of development. However, for optimum weed control and minimal competition to the crop, timing of application must be based on the stage of weed growth.

**RESTRICTIONS**

Do not graze or otherwise feed treated corn grain, forage or fodder to livestock within 68 days of application of TOUGH 3.75 EC.

**Option 1: TOUGH 3.75 EC Plus Atrazine** - In tank mix combination against annual broadleaf weeds including triazine resistant weeds.

For the control of annual broadleaf weeds up to the 4 leaf stage. Combine 1 pint of TOUGH 3.75 EC with 0.75 lbs. of atrazine 80WP (or the equivalent 90 DF or 4 L) per acre for early post-emergence application. This combination is to be applied in a sequential treatment following a pre-emergence grass herbicide or in fields without grass infestation. Grasses up to the 3 leaf stage, escaping from pre-emergence treatment, are suppressed with the TOUGH 3.75 EC-atrazine combination.

**Option 2: TOUGH 3.75 EC Plus Atrazine** - In tank mix combination broad spectrum post-emergence treatment including triazine resistant weeds.

For broad spectrum weed control, combine 2 pints of TOUGH 3.75 EC with 1.25-2 lbs. of atrazine 80WP (or the equivalent 90 DF or 4 L) per acre.

Make application when susceptible grass species are in the 1-3 leaf stage. For best control of most broadleaf species, apply when they are in the 2-4 leaf stage. Use the higher rate of atrazine for most consistent grass control. Avoid fields with problem grasses which atrazine does not control or include a grass herbicide in the control program. Get further instructions from the weed chart.

Read atrazine label for additional instructions and restrictions.

**Option 3: TOUGH 3.75 EC Plus Cyanazine (Bladex)** - Tank mix combination broad spectrum post-emergence treatment including triazine resistant weeds (for use in Northeast and Central States only).

For broad spectrum weed control where atrazine residue carry-over may be a problem, combine 2 pints of TOUGH 3.75 EC with 1.25 - 2 lbs. of Bladex 80WP (or the equivalent DF).

Apply when the susceptible grasses are in the 1-3 leaf stage. For best control of broadleaf weeds, spray when they are in the 2-4

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leaf stage. Use the higher rate of Bladex for most consistent grass control. Get further instructions from the weed chart.

**Precautions for TOUGH 3.75 EC plus Bladex (80WP or DF)**

- DO NOT apply if the fifth leaf of corn is visible.
- DO NOT use the Bladex flowable formulation.
- DO NOT apply during cool wet conditions or when corn is under stress.
- DO NOT use on sandy soils with less than 1% O.M.
- Read Bladex label.

**Option 4: TOUGH 3.75 EC alone to control broadleaf weeds including triazine resistant species.**

For the control of broadleaf weeds including triazine resistant species, apply 2 pints of TOUGH 3.75 EC when the weeds are in the 2-4 leaf stage.

TOUGH 3.75 EC alone may be used as part of a sequential treatment to control escaping broadleaf weeds, following a preplant incorporated or pre-emergence grass herbicide.

**SPECIAL USE DIRECTIONS**

**Yellow and purple nutsedge (C. esculentus, Cyperus rotundus):**

Yellow and purple nutsedge are suppressed significantly with TOUGH 3.75 EC. Apply 2 pints/acre TOUGH 3.75 EC when the sedges are 6-8 inches high. TOUGH 3.75 EC will burn back the top growth of nutsedge. Regrowth may occur. TOUGH 3.75 EC alone or TOUGH 3.75 EC plus atrazine can be applied at any stage of the crop growth.

**Grasses:**

TOUGH 3.75 EC at a rate of 2 pints/acre plus atrazine will control moderate infestations of escaped grasses following application of a pre-plant incorporated or pre-emergence grass herbicide.

TOUGH 3.75 EC at rate of 2 pints/acre plus atrazine or cyanazine (Bladex\*) will control susceptible grasses up to the 3 leaf stage.

Early timing is the key for good broadleaf weed and grass control. Delay in timing may result in reduced control. A timely cultivation 10-14 days after an application may aid in control.

\*Bladex is a registered trademark of Du Pont Inc.

**WARRANTY LIMITATIONS AND DISCLAIMER**

Agrolinz, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes

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stated on the label when used in strict accordance with the Directions For Use when used under normal conditions. **THIS IS THE ONLY WARRANTY MADE ON THIS PRODUCT. NO OTHER EXPRESS AND NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE OUTSIDE OF THIS LABEL.** Therefore, neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), under abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes, etc.) or under conditions not reasonably foreseeable to or beyond the control of seller.

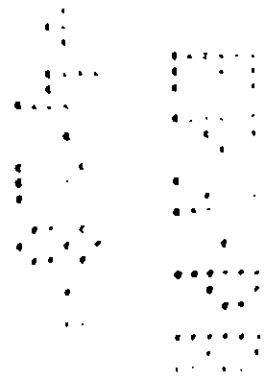
When buyer or user suffers losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability, or other legal theories), buyer or user must promptly notify in writing Agrolinz, Inc. of any claims to be eligible to receive either remedy given below. The EXCLUSIVE REMEDY OF THE BUYER OR USER and the LIMIT OF LIABILITY of Agrolinz, Inc. or any other seller will be one of the following, at the election of Agrolinz, Inc.:

1. Refund of purchase price paid by buyer or user for product bought or
2. Replacement of amount of product used.

The seller will not be liable for consequential or incidental damages or losses.

The terms of this Warranty Limitations and Disclaimer cannot be varied by any written or verbal statements or agreements. Any employee or sales agent of the seller is not authorized to vary or exceed the terms of this Warranty Limitations and Disclaimer in any manner.

AGROLINZ, INC.  
1669 KIRBY PARKWAY, SUITE 100  
MEMPHIS, TN 38120  
USA



WEED CHART FOR USE OF TOUGH 3.75 EC ON CORN

<u>WEED</u>	<u>COMMON NAME</u>	<u>OPTION 1</u>	<u>OPTION 2</u>	<u>OPTION 3</u>
		1 pt. TOUGH 3.75 EC + 0.75 lbs. of atrazine 80 WP	2 pts. TOUGH 3.75 EC + 1.25-2 lbs. of atrazine 80 WP	2 pts. T 3.75 EC 1.25-2 of Blad 80 W
Amaranth, palmer spiny	A. palmeri A. spinosus	X X	X X	X X
Anoda, spurred	Anoda cristata	X	X	X
Artichoke, Jerusalem	Helianthus tuberosus		XS	XS
Bedstraw, catchweed	Galium aparine	X	X	X
Bindweed, field	Convolvulus arvensis	XS	XS	XS
Buckwheat, wild	Polygonom convolvulus		X	X
Carpetweed	Mollugo verticillata	X	X	X
Chickweed, common	Stellaria media	X	X	X
Cocklebur, common	Xanthium strumarium	X	X	X
Corn chamomile	Anthemis arvensis	X	X	X
Corn spurry	Spergula arvensis	X	X	X
Dead nettle, purple spotted	Lamium purpureum Lamium maculatum	X X	X X	X X
Galinsoga, hairy small flower	Galinsoga ciliata Galinsoga parviflora	X X	X X	X X
Henbit	Lamium amplexicaule	X	X	X
Jimsonweed	Datura stramonium	X	X	X

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<u>WEED</u>	<u>COMMON NAME</u>	<u>OPTION 1</u>	<u>OPTION 2</u>	<u>OPTION 3</u>	<u>OPTION 4</u>
		1 pt. TOUGH 3.75 EC + 0.75 lbs. of atrazine 80 WP	2 pts. TOUGH 3.75 EC + 1.25-2 lbs. of atrazine 80 WP	2 pts. TOUGH 3.75 EC + 1.25-2 lbs. of Bladex 80 WP	2 pts TOUGH 3.75 EC
Kochia	Kochia scoparia	X	X	X	X
Knotweed, prostrate	Polygonum aviculare		X	X	
Lady's thumb	Polygonum persicaria		X	X	
Lambsquarters, common	Chenopodium album	X	X	X	X
Mayweed chamomile	Anthemis cotula	X	X	X	X
Morningglory entireleaf	Ipomea hederacea var integriuscula		X	X	
ivyleaf	Ipomea hederacea	X	X	X	
pitted	Ipomea lacunosa	XS	X	X	
red	Ipomea coccinea	XS	X	X	XS
smallflower	Jacquemontia tamnifolia	XS	X	X	X
tall	Ipomea purpurea		X	X	X
Mustard white	Sinapsis alba	X	X		
wild	Sinapsis arvensis	X	X	X	
Nighthade, American black	Solanum americanum	X	X	X	
black	Solanum nigrum	X	X	X	X
eastern black	Solanum ptycanthum	X	X	X	X
purple	Solanum xantii	X	X	X	X
silverleaf	Solanum elaeagnifolium	X	X	X	X
Pigweed, fringed	Amaranthus fimbriatus	X	X	X	X
prostrate	Amaranthus blitoides	X	X	X	X

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11  
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<u>WEED</u>	<u>COMMON NAME</u>	<u>OPTION 1</u>	<u>OPTION 2</u>	<u>OPTION 3</u>	<u>OPTION 4</u>
		1 pt. TOUGH 3.75 EC + 0.75 lbs. of atrazine 80 WP	2 pts. TOUGH 3.75 EC + 1.25-2 lbs. of atrazine 80 WP	2 pts. TOUGH 3.75 EC + 1.25-2 lbs. of Bladex 80 WP	2 pts TOUGH 3.75 EC
Pigweed, con't redroot	Amaranthus retro- flexus	X	X	X	
smooth tumble	Amaranthus hibridus	X	X	X	X
	Amaranthus albus	X	X	X	X
Prickly Sida	Sida spinosa	X	X	X	
Ragweed, common	Ambrosia artemisi- folia				
giant	Ambrosia trifida	XS	X	X	XS
		XS	X	X	XS
Shepherdspurse	Capsella bursa- pastoris	X	X	X	X
Sicklepod	Cassia obtusifolia	X	X	X	XS
Smartweed, Pennsylvania	Polygonum pensylvanicum	X	X	X	XS
Thistle, Canada	Cirsium arvense		XS	XS	
Velvetleaf	Abutilon theophrasti	X	X	X	X
Yellow rocket	Barbarea vulgaris	X	X	X	X

14 of 18

WEED CHART FOR USE OF TOUGH 3.75 EC ON CORN

<u>WEED</u>	<u>COMMON NAME</u>	<u>OPTION 1</u>	<u>OPTION 2</u>	<u>OPTION 3</u>	<u>OPTION 4</u>
		1 pt. TOUGH 3.75 EC + 0.75 lbs. of atrazine 80 WP	2 pts. TOUGH 3.75 EC + 1.25-2 lbs. of atrazine 80 WP	2 pts. TOUGH 3.75 EC + 1.25-2 lbs. of Bladex 80 WP	2 pts TOUGH 3.75 EC
<u>Grasses</u>					
Barnyard grass	Echinochloa crus-galli	XE	X	X	XE
Crabgrass, large	Digitaria sanguinalis	XS	XS	X	
smooth	Digitaria ischaemum	XS	X	X	XE
Foxtail, giant	Setaria faberi	XS	X	X	
giant green	Setaria viridis var. major	XS	X	X	
green	Setaria viridis	XE	X	X	XS
yellow	Setaria glauca	XE	X	X	XS
Panicum, fall	Panicum dichotomiflorum			X	
Panicum, Texas	Panicum texanum		X	X	
Witchgrass	Panicum capillare			X	

XE = Control of escaped grasses up to the 3 leaf stage

XS = Suppression

X = Controlled

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	or Lasso at Cracking	postemergent	+ Butoxone
Amaranth,			
palmer (A. palmeri)	X	X	X
spiny (A. spinosus)	X	X	X
Anoda, spurred (Anoda cristata)	XS	XS	X
Beggarweed, Florida (Desmodium tortuosum)	X	X	X
Carpetweed (Mollugo verticillata)	X	X	X
Chickweed, common (Stellaria media)	X	X	X
Cocklebur, common (Xanthium strumarium)	X	X	X
Hemp sesbania (Sesbania exaltata)	X	X	X
Jimsonweed (Datura stramonium)	X	X	X
Lambsquarters, common (Chenopodium album)	X	X	X
Morningglory,			
entireleaf (Ipomea hederacea var. integriuscula)	XS	XS	X
ivyleaf (Ipomea hederacea)	XS	XS	X
palmleaf (Ipomea wrightii)	XS	XS	X
pitted (Ipomea lacunosa)	XS	XS	X
red (Ipomea coccinea)	XS	XS	X

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17 of 18

WEED CHART FOR USE OF TOUGH 3.75 EC ON PEANUTS

	<u>Opt. 1</u>	<u>Opt. 2</u>	<u>Opt. 3</u>
	2 pts. TOUGH EC + Dual or Lasso at Cracking	2-3 pts. TOUGH postemergent	2-3 pts. TOUGH EC + Butoxone
Morningglory, con't smallflower (Jacquemontia tannifolia)	XS	XS	X
tall (Ipomea purpurea)	XS	XS	X
Mallow, venice (Hibiscus trionum)	XS	XS	X
Nightshade, American black (Solanum americanum)	X	X	X
black (Solanum nigrum)	X	X	X
eastern black (Solanum ptycanthum)	X	X	X
purple (Solanum xantii)	X	X	X
silverleaf (Solanum elaegnifolium)	X	X	X
Nutsedge purple (Cyperus rotundus)		XS	XS
yellow (Cyperus esculentus)		XS	XS
Pigweed, fringed (Amaranthus fimbriatus)	X	X	X
prostrate (Amaranthus blitoides)	X	X	X
redroot (Amaranthus retroflexus)	X	X	X
smooth (Amaranthus hybridus)	X	X	X

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WEED CHART FOR USE OF TOUGH 3.75 EC ON PEANUTS

	<u>Opt. 1</u>	<u>Opt. 2</u>	<u>Opt. 3</u>
	2 pts. TOUGH EC + Dual or Lasso at Cracking	2-3 pts. TOUGH postemergent	2-3 pts. TOUGH EC + Butoxone
Pigweed, con't tumble ( <i>Amaranthus albus</i> )	X	X	X
Prickly sida ( <i>Sida spinosa</i> )	XS	XS	X
Purslane, common ( <i>Portulaca oleracea</i> )	X	X	X
Ragweed, common ( <i>Ambrosia artemisifolia</i> )	X	X	X
giant ( <i>Ambrosia trifida</i> )	X	X	X
Senna, coffee ( <i>Cassia occidentalis</i> )	X	X	X
Sicklepod ( <i>Cassia obtusifolia</i> )	XS	XS	X
Velvetleaf ( <i>Abutilon theophrasti</i> )	X	X	X
Watermelon, wild ( <i>Citrullus lanatus</i> )	XS	XS	*

X = Controlled

XS = Suppression

The maximum weed stage: 2-4 leaves (do not count the cotyledon leaves)