

Reg # 42545-52

PM-22

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

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OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

J.R. Fisher
AGROLINZ INC.
6525 N QUAIL HOLLOW RD STE 107
MEMPHIS, TN 38120

Subject: Label Amendment Submission of 11/02/93 in Response to PR Notice 93-7
EPA Reg. No. 42545-52
TOUGH 3.75 EC

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

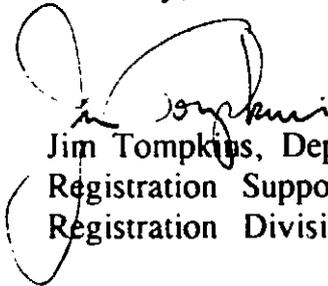
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

3 9 18

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

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. 33526-AT-02

EPA Reg. NO. 42545-52

Agrolinz, Inc.
6525 Quail Hollow
Suite 107
Memphis, TN 38120
Phone: (901)756-4422
Fax: (901) 757-9367

ACCEPTED
with COMMENTS
In EPA Letter Dated

MAR 30 1994

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

Net Contents 2.5 gallons / 9.45 liters

42545-52

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.

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.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

1. Long-sleeved shirt and long pants
2. Chemical-resistant gloves, such as viton or barrier laminate
3. Shoes plus socks

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

USER SAFETY RECOMMENDATIONS

Users should:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not contaminate water intended for irrigation or domestic purposes. Runoff may adversely affect nontarget plants. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. 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.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated,

such as plants, soil or water is:

1. Coveralls
2. Chemical-resistant gloves such as viton or barrier laminate
3. Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENT

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

Keep children, pets and other unprotected persons out of treated areas until sprays have dried.

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.

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.

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.

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.

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 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 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.
6525 Quail Hollow, Suite 107
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> 1 pt. TOUGH 3.75 EC + 0.75 lbs. of A.azine 80 WP	<u>OPTION 2</u> 2 pts. TOUGH 3.75 EC + 1.25-2 lbs. of Atrazine 80 WP	<u>OPTION 3</u> 2 pts. TOUGH 3.75 EC + 1.25-2 lbs. of Bladex 80 WP	<u>OPTION 4</u> 2 pts TOUGH 3.75 EC
Amaranth, palmer spiny	A. palmeri A. spinosus	X X	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	X
Bindweed, field	Convolvulus arvensis	XS	XS	XS	
Buckwheat, wild	Polygonom convolvulus		X	X	
Carpetweed	Mollugo verticillata	X	X	X	X
Chickweed, Common	Stellaria media	X	X	X	X
Cocklebur, common	Xanthium strumarium	X	X	X	X
Corn chamomile	Anthemis arvensis	X	X	X	X
Corn spurry	Spergula arvensis	X	X	X	X
Dead nettle, purple spotted	Lanium purpureum Lanium maculatum	X X	X X	X X	X X
Galinsoga, hairy small flower	Galinsoga ciliata Galinsoga parviflora	X X	X X	X X	X X
Henbit	Lanium amplexicaule	X	X	X	X
Jimsonweed	Datura stramonium	X	X	X	X
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 integriscula		X	X	
ivyleaf	Ipomea hederacea	X	X	X	
pitted	Ipomea lacunosa	XS	X	X	XS
red	Ipomea coccinea	XS	X	X	X
smallflower	Jacquemontia tamnifolia	XS	X	X	X
tall	Ipomea purpurea		X	X	

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WEED CHART FOR USE OF TOUGH 3.75 EC ON CORN, Con't.

<u>WEED</u>	<u>COMMON NAME</u>	<u>OPTION 1</u> 1 pt. TOUGH 3.75 EC + 0.75 lbs. of Atrazine 80 WP	<u>OPTION 2</u> 2 pts. TOUGH 3.75 EC + 1.25-2 lbs. of Atrazine 80 WP	<u>OPTION 3</u> 2 pts. TOUGH 3.75 EC + 1.25-2 lbs. of Bladex 80 WP	<u>OPTION 4</u> 2 pts TOUGH 3.75 EC
Mustard					
white	<i>Sinapsis alba</i>	X	X		
wild	<i>Sinapsis arvensis</i>	X	X	X	
Nightshade,					
American black	<i>Solanum americanum</i>	X	X	X	X
black	<i>Solanum nigrum</i>	X	X	X	X
eastern black	<i>Solanum ptycanthum</i>	X	X	X	X
purple	<i>Solanum xanthi</i>	X	X	X	X
silverleaf	<i>Solanum elaeagnifolium</i>	X	X	X	X
Pigweed,					
fringed	<i>Amaranthus fimbriatus</i>	X	X	X	X
prostrate	<i>Amaranthus blitoides</i>	X	X	X	X
redroot	<i>Amaranthus retro-</i> <i>flexus</i>	X	X	X	X
smooth	<i>Amaranthus hybridus</i>	X	X	X	X
tumble	<i>Amaranthus albus</i>	X	X	X	X
Prickly Sida	<i>Sida spinosa</i>	X	X	X	
Ragweed,					
common	<i>Ambrosia artemisi-</i> <i>folia</i>	XS	X	X	XS
giant	<i>Ambrosia trifida</i>	XS	X	X	XS
Shepherdspurse	<i>Capsella bursa-</i> <i>pastoris</i>	X	X	X	X
Sicklepod	<i>Cassia obtusifolia</i>	X	X	X	XS
Smartweed,					
Pennsylvania	<i>Polygonum</i> <i>pensylvanicum</i>	X	X	X	XS
Thistle, Canada	<i>Cirsium arvense</i>		XS	XS	
Velvetleaf	<i>Abutilon theophrasti</i>	X	X	X	X
Yellow rocket	<i>Barbarea vulgaris</i>	X	X	X	X

WEED CHART FOR USE OF TOUGH 3.75 EC ON CORN

<u>WEED</u>	<u>COMMON NAME</u>	<u>OPTION 1</u> 1 pt. TOUGH 3.75 EC + 0.75 lbs. of Atrazine 80 WP	<u>OPTION 2</u> 2 pts. TOUGH 3.75 EC + 1.25-2 lbs. of Atrazine 80 WP	<u>OPTION 3</u> 2 pts. TOUGH 3.75 EC + 1.25-2 lbs. of Bladex 80 WP	<u>OPTION 4</u> 2 pts TOUGH 3.75 EC
Grasses					
Barnyard grass	Echinochloa crusgalli	XE	X	X	XE
Crabgrass, large	Digitaria sanguinalis	XS	XS	X	XE
smooth	Digitaria ischaemum	XS	X	X	
Foxtail, giant	Setaria faberi	XS	X	X	
giant green	Setaria viridis var. major	XS	X	X	XS
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

WEED CHART FOR USE OF TOUGH 3.75 EC ON PEANUTS

	<u>Opt. 1</u> 2 pts. TOUGH EC + Dual or Lasso at Cracking	<u>Opt. 2</u> 2-3 pts. TOUGH Post- emergent	<u>Opt. 3</u> 2-3 pts. TOUGH EC + Butoxone
Amaranth,			
palmer (<i>A. palmeri</i>)	X	X	X
spiny (<i>A. spinosus</i>)	X	X	X
Anoda, spurred (<i>Anoda cristata</i>)	XS	XS	X
Beggarweed, Florida (<i>Desmodium tortuosum</i>)	X	X	X
Carpetweed (<i>Mollugo verticillata</i>)	X	X	X
Chickweed, common (<i>Stellaria media</i>)	X	X	X
Cocklebur, common (<i>Xanthium strumarium</i>)	X	X	X
Hemp sesbania (<i>Sesbania exaltata</i>)	X	X	X
Jimsonweed (<i>Datura stramonium</i>)	X	X	X
Lambsquarters, common (<i>Chenopodium album</i>)	X	X	X
Momingglory,			
entireleaf (<i>Ipomea hederacea</i> var. <i>integrifolia</i>)	XS	XS	X
ivyleaf (<i>Ipomea hederacea</i>)	XS	XS	X
palmleaf (<i>Ipomea wrightii</i>)	XS	XS	X
pitted (<i>Ipomea lacunosa</i>)	XS	XS	X
red (<i>Ipomea coccinea</i>)	XS	XS	X

WEED CHART FOR USE OF TOUGH 3.75 EC ON PEANUTS, con't.

	<u>Opt. 1</u> 2 pts. TOUGH EC + Dual or Lasso at Cracking	<u>Opt. 2</u> 2-3 pts. TOUGH Post- emergent	<u>Opt. 3</u> 2-3 pts. TOUGH EC + Butoxone
Morningglory, con't.			
smallflower (Jacquemontia tamnifolia)	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

WEED CHART FOR USE OF TOUGH 3.75 EC ON PEANUTS, con't.

	<u>Opt. 1</u> 2 pts. TOUGH EC + Dual or Lasso at Cracking	<u>Opt. 2</u> 2-3 pts. TOUGH Post- emergent	<u>Opt. 3</u> 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

X = Controlled

XS = Suppression

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