

1/17 352-501 PM 25

CLIENT: Unified Resources

DESC: Du Pont Extrazine 90DF/ACI 7/84

DRAFT: D-111986 Small Bo



10F17  
1.69

CLIENT JOB NO.:

AREA: 16(ss)

OPERATOR/DATE: ah 6/12/86

MACHINE 1  MACHINE 2

SPECS: 10pt Helvetica Bold Heads: 8/9 x 19 Helvetica w/Bold

P.O. NO.:

DISK(S): o1 & Sh

REV DRAFT: fjc 12/1/86

REV AAs: yw 7/31

DENSITY

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1



**RESTRICTED USE PESTICIDE**

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification. See Precautionary Statements for reasons for this product being classified Restricted Use.

**RESTRICTED**  
MAR - 6 1987  
U.S. Department of Agriculture  
Federal Insecticide, Fungicide, and Rodenticide Act  
EPA Reg. No. 352-501

**Extrazine 90DF**  
Herbicide

Use of Extrazine 90DF in  
Corn and Fallow Cropland.

D-111986

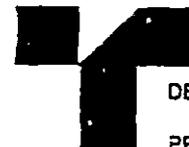
EPA Reg. No. 352-501

2/11  
JOB NO.: 9123-F (8296-C/8251-B)  
CLIENT: Unified Resources

GALLEY: 1-3  
DESC: Du Pont Extrazine 90DF/ACL 2564  
CRAFT: D-111986 Small Book

CLIENT JOB NO.:  
AREA: 16(ss)  
OPERATOR/DATE: dh 8/12/86  
MACHINE 1  MACHINE 2   
SPECS: 10pt Helvetica Bold Heads; 8/9 x 19 Helvetica w/Bold

R.O. NO.:  
DISK(S): ot & Sh  
REV DRAFT: ljc 12/1/86  
REV AAs: yw 7/31



DENSITY \_\_\_\_\_

PROOF 1/10/87

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E.I. DU PONT DE NEMOURS & CO. (INC.)  
AGRICULTURAL PRODUCTS DEPT.  
WILMINGTON, DE 19898

D-111986

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3/17

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**Typographic Resources**

**937-6896**

JOB NO.: 9123-F (8296-C/8251-B)  
CLIENT: Unified Resources

GALLEY: 1-4  
DESC: Du Pont Extrazine 90DF/ACL 2564  
DRAFT: D-111986 Small Book

CLIENT JOB NO.:  
AREA: 22  
OPERATOR/DATE: dh 6/12/86  
MACHINE 1 O MACHINE 2 O  
SPECS: 10pt Helvetica Bold Heads; 8/9 x 19 Helvetica w/Bold

P.O. NO.:  
DISK(S): o1 & Sh  
REV DRAFT: ljc 12/1/86  
REV AAs: yw 7/31; cl 1/8/87



DENSITY 1.67  
PROOF 551-9-81

# Extrazine® 90DF Herbicide

EXTRAZINE 90DF is a water dispersible granule.

ACTIVE INGREDIENTS	BY WEIGHT
2-[[4-chloro-6-(ethylamino)-s-triazin-2-yl]amino]-2-methylpropionitrile	60.0%
Atrazine: 2-chloro-4-(ethylamino-6-(isopropylamino)-s-triazine	28.5%
Related compound	1.5%
INERT INGREDIENTS	10.0%
<b>TOTAL</b>	<b>100.0%</b>

EPA Reg. No. 352-501

## KEEP OUT OF REACH OF CHILDREN WARNING!

### STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED, call a physician or poison control center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

IF IN EYES, flush with plenty of water. Get medical attention if irritation persists.

IF ON SKIN, wash with plenty of soap and water.

IF INHALED, remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.

See additional precautionary statements.

## AVISO

### PRECAUCION AL USUARIO:

Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicado ampliamente.

## PRECAUTIONARY STATEMENTS HAZARD TO HUMANS AND DOMESTIC ANIMALS WARNING

WARNING: May be fatal if swallowed. Harmful if inhaled or absorbed through the skin. Causes temporary eye injury.

This product may be hazardous to your health. This product has been determined to cause birth defects in laboratory animals. Use of protective clothing and equipment and following the precautions below can reduce risk.

Avoid breathing spray mist. Avoid contact with skin, eyes, or clothing. Do not get in eyes or on clothing. Wear a face shield when mixing and loading. Wash thoroughly with soap and water after handling and before eating or smoking.

Wear long trousers and long-sleeved clothing when applying this product. Wear rubber gloves extending above the wrist, long trousers and long-sleeved clothing when mixing or loading or when adjusting, repairing or cleaning equipment. Remove contaminated clothing and wash before reuse. Heavily contaminated clothing should be taken off immediately and incinerated or burned, if allowed by state and local authorities, or disposed of in a sanitary landfill and not laundered.

Do not apply this product in such a manner as to directly, or through drift, expose workers or other persons. The area being treated must be vacated by unprotected persons. For medical emergencies involving this product, call toll free 1-800-441-3637.

Keep out of reach of domestic animals, particularly cattle. Consumption of this product, spray solutions, or water contaminated with product can result in serious illness or possible death of bovines.

### ENVIRONMENTAL HAZARDS

Cyanazine and Atrazine, the active ingredients of EXTRAZINE, are pesticides which can move (seep or travel) through soil and can contaminate groundwater which may be used as drinking water. Cyanazine and Atrazine have been found in groundwater as a result of agricultural use. Users are advised not to apply EXTRAZINE where the water table (groundwater) is close to the surface and where the soils are very permeable (i.e. well drained soils such as loamy sands). Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

**BEST AVAILABLE COPY**

JOB NO.: 9123-F (8296-C/8251-B)  
CLIENT: Unified ResourcesGALLEY: 1-5  
DESC: Du Pont Extrazine 90DF/ACL 2564  
DRAFT: D-111986 Small Book

CLIENT JOB NO.:

P.O. NO.:

AREA: 22

DISK(S): 01 &amp; Sh

OPERATOR/DATE: gh 6/12/86

REV DRAFT: ljc 12/1/86

MACHINE 1  MACHINE 2 

REV AAs: yw 7/31; cl 1/8/87

SPECS: 10pt Helvetica Bold Heads; 8/9 x 19 Helvetica w/Bold



DENSITY 169

PROOF 5-1-86

Atrazine is toxic to aquatic invertebrates. Do not apply directly to water or wetlands. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

**DIRECTIONS FOR USE**

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

**STORAGE AND DISPOSAL**

**Storage:** Do not contaminate water, food or feed by storage or disposal. Do not use or store around the home environment. Avoid contact with water. In case of spill or leak, soak up with sand, earth, or synthetic absorbent. Do use alkaline absorbents, and dispose of wastes in compliance with local, state, and Federal regulations.

**Pesticide Disposal:** Pesticide, spray mixture, or rinsate that cannot be used according to label instructions must be disposed of according to applicable Federal, state, or local procedures.

**Container Disposal:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**NOTICE OF WARRANTY**

Du Pont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purposes stated on such label only when used in accordance with the directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Du Pont. In no case shall Du Pont be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be

assumed by the buyer. DU PONT MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

**GENERAL INFORMATION**

EXTRAZINE 90DF Herbicide is a selective herbicide for the control of annual grasses and broadleaved weeds in field corn, popcorn, and sweet corn, and fallow cropland.

Consult your local Agricultural Extension Agent for help in determining soil texture, organic matter content, and the most appropriate herbicide rate for local conditions.

Where surfactants or emulsifiable vegetable oils are added to EXTRAZINE 90DF for over the top of corn postemergence applications, use on field corn only.

As a preemergence herbicide, EXTRAZINE 90DF is active mainly through the roots, and, therefore, its effect on weeds is dependent on adequate rainfall or sprinkler irrigation to move the herbicide into the root zone. Moisture should be sufficient to wet the top 1 1/2 to 2 inches of soil or make the soil too wet to cultivate; for most soils 1/2 to 3/4 inches of moisture is sufficient. A rotary hoeing or shallow cultivation is recommended if a rainfall or sprinkler irrigation has not occurred within about ten days after application of EXTRAZINE 90DF. Under conditions which delay weed germination, such as low temperatures, lack of soil surface moisture, or when germination extends over a long period, the effectiveness of the herbicide may be impaired. Rotary hoeing, a shallow cultivation or a postemergence herbicide treatment may be of benefit under these circumstances. When applied as a postemergence herbicide, EXTRAZINE 90DF is also active through foliage, as well as through the roots.

EXTRAZINE 90DF is not effective when used preemergence on peat or muck soils. Do not use EXTRAZINE 90DF alone on sands or loamy sands (soils consisting of more than 70 percent sand) containing less than 1 percent organic matter.

OBSERVE ALL CAUTIONS AND LIMITATIONS ON LABELING OF ALL PRODUCTS USED IN MIXTURES.

2/17  
CLIENT: Unified Resources

DESC: Du Pont Extrazine 90DF L 2564  
DRAFT: D-111986 Small Book

CLIENT JOB NO.:

AREA: 16(ss)

OPERATOR/DATE: dh 6/12/86

MACHINE 1 C MACHINE 2 C

SPECS: 10pt Helvetica Bold Heads: 8/9 x 19 Helvetica w/Bold

P.O. NO.:

DISK(S): 01 & Sh

REV DRAFT: ljg 12/1/86

REV AAs: yw 7/31

DENSITY \_\_\_\_\_

PROOF ljg 12/2

Rotational crops: (1) Plant only corn, peanuts, sorghum, or soybeans the year following the use of this mixture. (2) If soybeans are to be planted, injury may occur due to the carryover of atrazine. (3) If applied after June 10, do not rotate with crops other than corn or sorghum the next year or injury may occur. (4) In the high plains and intermountain areas of the West where rainfall is sparse and erratic or where irrigation is required, use only when corn or sorghum is to be planted the following year, or a crop of corn or sorghum not treated with atrazine is to precede other rotational crops. (5) Small grains may be planted 15 months following treatment. (6) All other crops may be planted 18 months after application.

### APPLICATION DIRECTIONS

#### GENERAL MIXING AND SPRAYING INSTRUCTIONS

Use sufficient agitation to ensure that the EXTRAZINE 90DF is completely dispersed (dissolved) and in uniform suspension prior to application or tank mixing with other formulations.

The following general mixing instructions are recommended when using this or any other dry flowable formulation.

##### I. General

1. Unless otherwise specified, use at least 15 gallons of water per acre for all applications with ground equipment. For aerial application, apply a minimum of 4 gallons of water per acre.
2. A nitrogen solution or complete liquid fertilizer may replace all or part of the water as a carrier for pre-emergence or preplant application on corn or sorghum. Do not apply fertilizer mixtures after crop emerges, as injury may occur.
3. Always check the tank mix compatibility (TMC) of this or any other formulation before mixing with liquid fertilizer carriers or other formulations. A simple but generally reliable TMC evaluation procedure has been provided for your use in Step II of these mixing instructions.

4. Start with thoroughly clean equipment.
5. Fill tank  $\frac{1}{4}$  full with carrier. Start and maintain consistent agitation through all mixing and spraying procedures. Make sure that the agitation system is working properly and creates a rippling or rolling action on the liquid surface.
6. Slowly add the dry flowable (DF) to the tank or inductor.
7. Fill tank to 75 percent capacity with carrier. Filling and bypass lines should be kept below liquid surface. Increase tank agitation if necessary to maintain surface action.
8. When desired, appropriate emulsifiable oil, oil concentrate, or other tank mix formulations should be added at this time. Preslurry these added ingredients before addition if the compatibility test shows it to be necessary.
9. Complete filling tank, maintaining sufficient agitation at all times to ensure surface action. This applies to both spray and nurse tanks.
10. Tank mixtures should always be applied immediately after preparation. If for any reason this is not possible, assure that sufficient agitation has been provided to remix all products and check for complete resuspension prior to application.
11. Empty tank as completely as possible before refilling to prevent buildup of oil or emulsifiable concentrate residues when tank mixing with these formulations. Always maintain agitation to avoid separation.
12. If an oil or emulsifiable concentrate film starts to build up after using these formulations, drain and clean the tank with strong detergent solution or appropriate solvent.
13. It is recommended that the sprayer be thoroughly cleaned by flushing with a detergent solution at the end of each work day when any emulsifiable oil, oil concentrate, or other emulsifiable formulation has been used either alone or in tank mix combinations with other pesticide formula-

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JOB NO.: 9123-F (8236-C:8251-8)  
 CLIENT: Unified Resources

GALLEY: 1-7  
 DESC: Du Pont Extrazine 90DF/ACL 2564  
 DRAFT: D-111986 Small Book

CLIENT JOB NO.:  
 AREA: 16(ss)  
 OPERATOR/DATE: dh 6/12/86  
 MACHINE 1  MACHINE 2   
 SPECS: 10pt Helvetica Bold Heads; 8/9 x 19 Helvetica w/Bold

P.O. NO.:  
 DISK(S): o1 & Sh  
 REV DRAFT: ljc 12/1/86  
 REV AAs: yw 7/31



DENSITY \_\_\_\_\_  
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tions, even if no obvious problems have been encountered. This precaution will ensure a clean sprayer and continued trouble-free operation.

**II. Tank Mix Compatibility Evaluation Procedure**

1. Add 1 pint of carrier liquid to each of 2 one-quart jars. Mark 1 quart jar "with" and the other "without."
2. Add 1/4 teaspoon of a suitable tank mix compatibility agent (1/4 teaspoon/pint = 2 pints/100 gallons of carrier) to the jar marked "with," cap the jar and shake gently for 5 to 10 seconds to mix.
3. Add the appropriate amount of herbicide to both jars, cap each jar, and shake gently for 5 to 10 seconds to mix. If problems are encountered in mixing wettable powder or dry flowable formulations into a liquid fertilizer, pre-slurry these formulations in water prior to their addition to the liquid fertilizer and proceed with the test. The following chart has been provided to assist in selecting the approximate EXTRAZINE 90DF use rate for this evaluation. If more than one herbicide is to be used in the tank mixture, each should be added separately as follows: water solubles first, wettable powders or dry flowables second, liquid flowables third, and emulsifiable concentrate or oil formulations last, with each jar capped and gently shaken for 5 to 10 seconds for each addition.

**JAR TEST FOR EXTRAZINE 90DF  
 COMPATIBILITY**

Gallons of Liquid Carrier per Acre	15	20	25	30	40
Teaspoons of EXTRAZINE 90DF per Pint of Liquid Carrier	1 1/2	1 1/4	1	3/4	1/2

This chart is based on 1 pound of EXTRAZINE 90DF (0.9 pounds active ingredient) per acre in the indicated carrier volumes. Intended field use rates are achieved by

varying the amount of EXTRAZINE 90DF; i.e., for a field use rate of 2.5 pounds of EXTRAZINE 90DF in 15 gallons of carrier per acre, add 3.75 teaspoons of EXTRAZINE to the quart jars containing 1 pint of carrier. Calculation: 2.5 pounds of EXTRAZINE 90DF/15 gallons of carrier per acre = 2.5 X 1.5 or 3.75 teaspoons of EXTRAZINE 90DF per pint of carrier.

4. Let each jar stand one-half hour and make observations. If any separation, agglomeration, or precipitation has occurred, shake the jar again for 10 to 15 seconds, and note whether any of the following occur:
  - a. Separated phases do not remix uniformly.
  - b. Screen/nozzle plugging lumps do not disperse.
  - c. Precipitate does not resuspend readily.
  - d. Precipitate sticks tenaciously to the glass.
5. If none of the above problems occur in either jar, the herbicides can, in most cases, be safely used without a compatibility agent.
6. If problems 4.a. or 4.b. occur in the jar marked "without," but do not occur in the jar marked "with," the compatibility agent should be used.
7. If problems 4.a. or 4.b. are seen in both jars, then the herbicides and carrier mixture are incompatible and should not be used in the same spray tank. Alternatively, a different tank mix compatibility agent can be evaluated.
8. If problems 4.c. or 4.d. occur in the jar marked "without" but do not occur in the jar marked "with," the compatibility agent should be used unless constant, thorough agitation can be maintained and immediate clean-out of spray system is performed.
9. If problems 4.c. and 4.d. are seen in the jar marked "with," the user proceeds with mixing and application at his own risk should agitation in the system be insufficient or curtailed.

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JOB NO.: 9123-F (8296-C/8251-B)  
CLIENT: Unified ResourcesGALLEY: 1-8  
DESC: Du Pont Extrazine 90DF/ACL 2564  
DRAFT: D-111986 Small Book

CLIENT JOB NO.:

P.O. NO.:

AREA: 16(ss)

DISK(S): o1 &amp; Sh

OPERATOR/DATE: dh 6/12/86

REV DRAFT: jpc 12/1/86

MACHINE 1:  MACHINE 2: 

REV AAs: yw 7/31

SPECS: 10pt Helvetica Bold Heads; 8/9 x 19 Helvetica w/Bold

DENSITY 1.69

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10. Those mixtures defined as compatible in this test should then be mixed for use as indicated in Steps 1 through 12 of the general mixing instructions listed above.
- III. Application Equipment
1. Use application equipment fitted with nozzles that provide accurate and uniform coverage. Be certain that nozzles are uniformly spaced and the same size. Calibrate sprayer before use and recheck frequently during use whenever possible.
  2. Use a pump with capacity to:
    - a. Maintain 35 to 40 psi at nozzles.
    - b. Provide sufficient agitation in tank to keep mixture in suspension.
    - c. Provide a minimum of 20 percent bypass at all times.
  3. Use centrifugal pumps which provide sufficient shear action for dispersing and mixing this product. The pump should provide a minimum of 10 gallons/minute/100-gallon tank size circulated through the jets of a correctly-positioned sparger tube.
  4. Use screens to protect the pump and to prevent nozzles from clogging. Screens placed on suction side of pump should be 10 to 16 mesh. Do not place a screen in the recirculation line. Use a 40-to 50-mesh screen between the pump and boom and, where required, 50-mesh screens at the nozzles. Check your equipment manufacturer's literature for specific recommendations.

### PREEMERGENCE-PREFLANT INCORPORATED

Apply EXTRAZINE treatments just before, at, or after planting but before crop has emerged. Avoid removal of treated soil from seedrow prior to or during the planting operation.

EXTRAZINE may also be applied early prior to planting or in a split application if pre-season weed control is desired. For split applications, do not exceed the total amount of EXTRAZINE for the soil texture and organic matter shown in Table 1. If EXTRAZINE is applied early, more than 15 days before planting, a split application of EXTRAZINE or some other herbicide treatment may be necessary at or after planting to provide additional length of weed control. For further information, see "Early Preplant" recommendations in the Conservation Tillage section of this label.

A rotary hoeing is recommended for preemergence applications which do not receive adequate rainfall or sprinkler irrigation to wet the top 1 1/2 to 2 inches of soil within about 10 days after application.

If an EXTRAZINE mixture is to be incorporated, except as noted, single- or two-pass incorporation is acceptable. Care should be taken to incorporate the EXTRAZINE mixture no deeper than the top 2 inches of soil.

#### EXTRAZINE Applied Alone

Use at the proper rate for soil texture and organic matter indicated in Table 1.

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JOB NO.: 9123-F (8296-C/8251-B)  
CLIENT: Unified Resources

GALLEY: 1-9  
DESC: Du Pont Extrazine 90DF:ACL 2564  
DRAFT: D-111986 Small Book

CLIENT JOB NO.:  
AREA: 16(ss)  
OPERATOR/DATE: dh 6/12/86  
MACHINE 1  MACHINE 2   
SPECS: 10pt Helvetica Bold Heads; 8/9 x 19 Helvetica w/Bold

P.O. NO.:  
DISK(S): o1 & Sh  
REV DRAFT: ljc 12/1/86  
REV AAs: yw 7/31



DENSITY: 1.62

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### CORN WEEDS CONTROLLED BY EXTRAZINE 90DF ALONE AND IN COMBINATION WITH OTHER HERBICIDES ON CORN

#### Grasses

Annual bluegrass  
Annual fescues  
Annual (Italian) ryegrass

Barnyardgrass<sup>1</sup>  
Bulgrass  
Crabgrass  
Fall panicum

Giant foxtail  
Goosegrass  
Green foxtail  
Jungtione

Stinkgrass  
(Indian  
lovegrass)  
Witchgrass  
Yellow foxtail

#### Broadleaves

Annual groundcherry  
Annual morningglory  
Annual sedge  
Black mustard  
Buffalobur  
Buttercup (annual)  
Carpetweed  
Cocklebur<sup>2</sup>  
Common chickweed  
Common groundsel  
Common mallow

Common purslane  
Corn spurry  
Curly Dock (seedling)  
Fiddleneck  
Florida pusley  
(Florida purslane)  
Hedge mustard  
Jimsonweed<sup>1</sup>  
Kochia  
Ladythumb  
Lambquarters  
Mayweed

Nightshade (annual)  
Pigweed<sup>1</sup>  
Pineappleweed  
Plantain  
Poonoe  
Prickly sida  
(tatweed)  
Prostrate knotweed  
Prostrate spurge  
Ragweed  
Russian thistle  
Shepherdspurse  
Smallflower galinsoga

Smartweed  
(Pennsylvania)  
Spiny sida  
Sunflower<sup>2</sup>  
(wild, annual,  
common)  
Tanweed cuphea  
(Gumweed)  
Velvetleaf<sup>1</sup>  
Wild buckwheat  
Wild mustard  
Wild radish  
Wild turnip

<sup>1</sup>Under conditions such as low temperatures, lack of soil surface moisture or other factors that may cause delay in germination of the seeds, the effectiveness of EXTRAZINE may be impaired against these weeds.

<sup>2</sup>The degree of control will be reduced if soil moisture and temperature conditions cause deep germination of the seed.

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**TypographicResources**

**937-6896**

JOB NO.: 9123-F (8298E/8249-K)

GALLEY: 2-1

CLIENT: Unified Resources

DRAFT: D-112186 Small Book

CLIENT JOB NO.:

DESC: Du Pont Conquest 90DF ACL2554

AREA: 22

P.O. NO.: 00697

OPERATOR/DATE: yw 3/27/86

DISK(S): 102 & S

MACHINE 1  MACHINE 2

REV DRAFT: ljc 12/1/86

SPECS: 10pt Helvetica Bold Heads; 8/9 x 19 Helvetica w/Bold

REV AAs: dh 4/15; yw 7/30; cl 1/8/87



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PROOF 551-9-87

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**TABLE 1  
PREEMERGENCE BROADCAST APPLICATION RATES PER ACRE  
FOR CONQUEST 90DF APPLIED ALONE ON CORN**

Soil Texture Description	Pounds of CONQUEST 90DF					
	Percent Organic Matter in Soil*					
	Less than 1%	1%	2%	3%	4%	5% & Over
Sand, Loamy Sand	DO NOT USE	1.4	1.7	2.2	2.8	3.6
Sandy Loam	1.4	1.7	2.2	2.8	3.6	4.4
Loam, Silt Loam, Silt	1.7	2.2	3.1	3.6	4.4	5.0
Sandy Clay Loam, Clay Loam, Silty Clay Loam	2.2	3.1	3.6	4.4	5.0	5.3
Sandy Silty Clay	3.1	3.6	4.4	5.0	5.3	5.8
Peat or ...	NOT RECOMMENDED					

\*For organic matter content between those listed, adjust the rate proportionately.

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**TypographicResources**

937-6896

JOB NO.: 9123-E (8296-C/8014-G)  
CLIENT: Unified Resources

GALLEY: 2-2  
DESC: Du Pont Extrazine 90DF ACL 2564  
DRAFT: D111986 Small Book

CLIENT JOB NO.:

P.O. NO.: 00722

AREA: 16(ss)

DISK(S): 01/S

OPERATOR/DATE: dh 6/12/86

REV DRAFT: ljc 12/2/86

MACHINE 1  MACHINE 2

REV AAs: dh 7/29/86

SPECS: 10pt Helvetica Bold Heads; 8/9 x 19 Helvetica w/Bold



DENSITY 1.68

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**EXTRAZINE COMBINATIONS**

**EXTRAZINE plus Lasso 4 EC**

Use EXTRAZINE 90DF at the proper rate for the soil texture and organic matter shown in Table 2 plus 2 quarts per acre of Lasso. (Use 2.5 quarts Lasso on clay soils containing 5 percent organic matter and over.)

**EXTRAZINE plus Sutan + 8.7E/Genate Plus, or Eradicane™ 6.7E**

Use EXTRAZINE 90DF at the proper rate for the soil texture and organic matter shown in Table 2 plus 1.3 quarts per acre of Sutan +/Genate Plus or Eradicane for control of many annual grasses and broadleaf weeds. (Use 2.4 quarts of Sutan +/Genate Plus or Eradicane on loam soils containing 5 percent or more organic matter, and clay loams and clays containing 4 percent or more organic matter). Do not use on sands and loamy sands of less than 1 percent organic matter in the light sandy soils of eastern coastal states. Do not use on corn seed stock.

Apply before planting. Incorporate the mixture immediately upon application using power-driven cultivation equipment set for 2 to 3 inch depth, or a tandem disc set to cut to a depth of about 4 inches while operating at 4 to 6 mph. For thorough mixing, disc in two directions (cross disc), and follow with a harrow, drag, or other leveling device. Prior to the second discing, readjust the disc to prevent cutting deeper than 4 inches. EXTRAZINE 90DF may be applied preemergence as an overlay over previous incorporated Sutan +/Genate Plus or Eradicane, if desired.

Existing stands of quackgrass, purple and yellow nutsedge must be turned under and thoroughly chopped up prior to chemical treatments.

Additional weeds controlled by Sutan +/Genate Plus or Eradicane combinations:

**Grasses**

Sandbur  
Shattercane (Wild Cane)\*  
Texas Panicum  
Quackgrass (Eradicane only)  
Wild Proso Millet\*  
(Eradicane only)

**Perennial Weeds**

Yellow Nutsedge (nutgrass)  
Purple Nutsedge (nutgrass)

\*Suppression only — refer to Sutan +/Genate Plus or Eradicane label for appropriate supplement cultural and tillage practices.

For fields with moderate to heavy infestations of these weeds, refer to the Sutan +/Genate Plus or Eradicane labels for appropriate higher rates.

**EXTRAZINE Plus Dual 8E**

Use EXTRAZINE 90DF at the proper rate for soil texture and organic matter shown in Table 2. Use Dual as follows:

SOIL TEXTURE	BROADCAST RATE PER ACRE
Coarse Sand, loamy sand, sandy loam	1.25 - 1.5 pints
Medium Loam, silt loam, silt	1.5 - 2.0 pints
Fine Sandy clay loam, silty clay loam, clay loam, sandy clay, silty clay, clay	1.5 - 2.5 pints

The low end of the rate range should be used for lowest organic matter soils and the rate increased as organic matter increases to a point that soils containing 4 percent organic matter or more require the highest rate shown for that soil texture. Refer to the Dual label for precautions on rotational crops.

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**TypographicResources**

**937-6896**

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JOB NO.: 9123-F (8298E/8249-K)

GALLEY: 2-3

CLIENT: Unified Resources

DRAFT: D-1 12186 Small Book

CLIENT JOB NO.:

DESC: Du Pont Conquest 90DF ACL2554

AREA: 22

P.O. NO.: 00697

OPERATOR/DATE: yw 3/27/86

DISK(S): 102 & S

MACHINE 1 ○ MACHINE 2 ○

REV DRAFT: ljc 12/1/86

SPECS: 10pt Helvetica Bold Heads; 8/9 x 19 Helvetica w/Bold

REV AAs: dh 4/15; yw 7/30; cl 1/8/87



DENSITY \_\_\_\_\_

PROOF \$ 1-12-87

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TABLE 2 PREEMERGENCE BROADCAST APPLICATION RATES PER ACRE FOR CONQUEST 90DF USED IN TANK-MIX COMBINATIONS WITH LASSO, SUTAN + /GENATE PLUS, ERADICANE, OR DUAL ON CORN						
Soil Texture Description	Pounds of CONQUEST 90DF					
	Percent Organic Matter in Soil*					
	Less than 1%	1%	2%	3%	4%	5% & Over
Sand, Loamy Sand	0.7**	0.8	1.4	1.7	1.9	2.2
Sandy Loam	0.8	1.4	1.7	1.9	2.2	2.5
Loam, Silt Loam, Silt	1.4	1.7	1.9	2.2	2.5	2.8
Sandy Clay Loam, Clay Loam, Silty Clay Loam	1.7	1.9	2.2	2.5	2.8	3.1
Sandy Clay, Silty Clay, Clay	1.9	2.2	2.5	2.8	3.1	3.3
Peat or Muck	NOT RECOMMENDED					
*For organic matter content between those listed, adjust the rate proportionately.						
**Do not use in the Atlantic Coastal Plain.						

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12/17

JOB NO.: 9123-E (8296-C/8014-G)  
CLIENT: Unified Resources

GALLEY: 2-4  
DESC: Du Pont Extrazine 90DF ACL 2564  
DRAFT: D111986 Small Book

12  
1.6  
DENSITY  
PROOF

CLIENT JOB NO.:  
AREA: 16(ss)  
OPERATOR/DATE: dh 6/12/86  
MACHINE 1  MACHINE 2   
SPECS: 10pt Helvetica Bold Heads; 8/9 x 19 Helve... 1 w/Bold

### CONSERVATION TILLAGE WEED CONTROL

#### Early Preplant (EPP)

[Prior to planting weed control for land going into production of corn.]

Complete any planned early spring tillage prior to application. Apply herbicide treatment before weeds germinate or before weed seedlings are more than 3 inches tall. Tillage after application may reduce the effectiveness of the herbicide treatment.

Apply EXTRAZINE 90DF 15 to 30 days prior to planting. Use the proper rate for soil texture and organic matter indicated in Table 1. Where heavy crop residues exist, the rates shown in Tables 1 should be increased by 25 percent.

Where broadleaf weeds are present, add 2,4-D LV Ester at 1 1/2 to 2 pints/Acre (6 pounds/gallon) or 2 to 3 pints per Acre pounds/gallon plus X-77 surfactant at 1 quart/100 gallons of diluted spray, or other suitable surfactant at its recommended rate. When 2,4-D Ester is tank mixed with EXTRAZINE as previously described, these additional weeds will be controlled: Buckwheat, Dandelion, Dock, Maretail, Pennygrass, Prickly lettuce, and Tansy mustard. If existing annual weeds exceed 3 inches in height, add 1 to 2 pints per Acre of paraquat or 2 pints per Acre of Roundup to the above mixture. Well established weeds over 6 inches tall may not be well controlled. Use at least 25 gallons per Acre of spray ... by ground ng or 5 to 10 gallons per Acre for aerial application.

Depending upon weather conditions following the EPP application, a postemergence EXTRAZINE or BLADEx Herbicide treatment, or some other herbicide treatment, may be necessary at or after planting to provide additional length of weed control. If desired, 1 1/2 to 2 pints per Acre of Dual or 2 quarts per Acre of Lasso may be tank-mixed with the EXTRAZINE EPP treatment or applied preemergence at planting.

Rotational Crops: Refer to the General Information section of the label.

#### At Planting

EXTRAZINE 90DF applied alone or in combination with Lasso or Dual according to the following directions will kill most existing small weeds and suppress many emerged perennial weeds when corn is planted into no-till stalk ground (corn, sorghum), stubble ground (soybean, small grains), and any minimum-till situation. This treatment then provides residual control of annual weeds as in conventional tillage.

Apply EXTRAZINE 90DF alone or with other products according to the directions for those treatments in the Preemergence section of the label. Where heavy crop residues exist, the EXTRAZINE rate shown in Tables 1 or 2 should be increased by 25 percent. Add 1/2 to 1 pint per Acre of 2,4-D Low Volatile 6-pound Ester (0.75 to 1.5 pint per Acre 2,4-D LV 4-pound Ester). Add the 2,4-D LV to the spray tank last. Refer to the EPP section above for additional broadleaf weeds controlled with an EXTRAZINE/2,4-D Ester tank mix treatment. Use a minimum of 25 gallons per Acre of carrier. Complete spray coverage of the weeds is essential for best performance. Nitrogen solutions and complete liquid fertilizers are the preferred carriers for this treatment as they aid in the burndown of existing weeds. Add Ortho X-77™ surfactant at 1 to 2 quarts per 100 gallons of diluted spray, or other suitable surfactant at its recommended rate. If water is used as a carrier, crop oil concentrate may be used as a surfactant. Apply before weeds exceed 3 inches in height. For control of existing alfalfa, add 1/2 pint per Acre of Banvel™ to the spray mixture. Apply before the alfalfa exceeds 6 inches in height.

For fields with existing sod grasses such as orchardgrass, bromegrass, rye or timothy, or when very dry conditions exist, or when existing weeds exceed 3 inches in height, add Paraquat CL to the tank-mix. Use 2 pints per Acre of Paraquat CL in combination with EXTRAZINE as described above in this section, except the 2,4-D LV may be omitted, if desired. Do not apply Paraquat CL in suspension-type liquid fertilizer.

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**937-6896**

JOB NO.: 9123-E (8296-C:8014-G)  
 CLIENT: Unified Resources

GALLEY: 2-5  
 DESC: Du Pont Extrazine 90DF ACL 2564  
 DRAFT: D111986 Small Book

CLIENT JOB NO.:  
 AREA: 16(ss)  
 OPERATOR/DATE: dh 6/12/86  
 MACHINE 1 ○ MACHINE 2 ○  
 SPECS: 10pt Helvetica Bold Heads: 8/9 x 19 Helvetica w/Bold

P.O. NO.: 00722  
 DISK(S): o1/S  
 REV DRAFT: ljc 12/2/86  
 REV AAs: dh 7/29/86



DENSITY 1.65  
 PROOF ljc 12/2

**POSTEMERGENCE**

**EXTRAZINE Applied Alone**

Use EXTRAZINE 90DF at the proper rate for the soil texture and organic matter shown in Table 3 or 3A. Use rates shown in Table 3 if EXTRAZINE or BLADEX has not been applied to the soil this season. Use rates shown in Table 3A if EXTRAZINE or BLADEX has been applied to the soil this season. This treatment may be used on peat or muck soils for burndown and suppression of existing weeds but will not provide residual control. Apply from crop emergence through the four-leaf stage of corn growth before weeds exceed about 1 1/2 inches in height. Do not apply over the top of corn if the fifth leaf is visible. Apply in water only. Do not spray emerged corn plants in a liquid fertilizer carrier.

DO NOT APPLY THIS TREATMENT UNDER COLD, WET WEATHER CONDITIONS, OR TO WEATHER-STRESSED OR STORM-DAMAGED CORN. Yellowing of the corn may result from this treatment, particularly if cold, adverse growing conditions occur after application. Extended or extreme cold and wet conditions may reduce stands. Do not use on corn grown for seed.

Rotational Crops: Refer to the "General Information" section of the label.

TABLE 3 POSTEMERGENCE BROADCAST APPLICATION RATES PER ACRE FOR EXTRAZINE 90DF ON CORN NO PRIOR EXTRAZINE OR BLADEX APPLICATION				
Soil Texture	Pounds of EXTRAZINE 90DF			
	Percent Organic Matter in Soil*			
	Less than 1%	1%	2%	Over 2%
Sand, Loamy Sand	DO NOT USE	1.3	1.8	2.2
Sandy Loam	1.3	1.8	2.2	2.2
Loam, Silt Loam, Silt	1.8	2.2	2.2	2.2
All other textures	2.2	2.2	2.2	2.2

\*For organic matter content between those listed, adjust the rate proportionately.

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14/17  
JOB NO.: 9123-E (8296-C/8014-G)  
CLIENT: Unified Resources

GALLEY: 2-6  
DESC: Du Pont Extrazine 90DF ACL 2564  
DRAFT: D111986 Small Book  
P.O. NO.: 00722  
DISK(S): 01/S  
REV DRAFT: lj 12/2/86  
REV AAs: dh 7/29/86



14  
DENSITY 16'  
PROOF \_\_\_\_\_

CLIENT JOB NO.:  
AREA: 16(ss)  
OPERATOR/DATE: dh 6/12/86  
MACHINE 1 ○ MACHINE 2 ○  
SPECS: 10pt Helvetica Bold Heads; 8/9 x 19 Helvetica w/Bold

TABLE 3A  
POSTEMERGENCE BROADCAST APPLICATION RATES  
PER ACRE FOR EXTRAZINE 90DF ON CORN  
EXTRAZINE OR BLADEx USED IN PRIOR APPLICATION

Soil Texture	Pounds of EXTRAZINE 90DF			
	Percent Organic Matter in Soil*			
	Less than 1%	1%	2%	Over 2%
Sand, Loamy Sand	DO NOT USE	DO NOT USE	1.5	1.5
Sandy Loam	DO NOT USE	DO NOT USE	1.75	2.2
Loam, Silt Loam, Silt	DO NOT USE	1.5	2.2	2.2
All other textures	DO NOT USE	2.0	2.2	2.2

\*For organic matter content between those listed, adjust the rate proportionately.

15/17

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**TypographicResources**

**937-6896**

JOB NO.: 9123-E (8296-C/8014-G)  
CLIENT: Unified Resources

GALLEY: 2-7  
DESC: Du Pont Extrazine 90DF ACL 2564  
DRAFT: D111986 Small Book



CLIENT JOB NO.:  
AREA: 16(ss)  
OPERATOR/DATE: dh 6/12/86  
MACHINE 1  MACHINE 2   
SPECS: 10pt Helvetica Bold Heads; 8/9 x 19 Helvetica w/Bold

P.O. NO.: 00722  
DISK(S): 01/S  
REV DRAFT: ljc 12/2/86  
REV AAs: dh 7/29/86

DENSITY 1.6  
PROOF \_\_\_\_\_

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**FALLOW CROPLAND**

Weeds Controlled by EXTRAZINE 90DF Alone and In Tank-Mix Combinations

- |                           |                   |
|---------------------------|-------------------|
| <b>Grasses</b>            |                   |
| Annual (Italian) ryegrass | Yellow foxtail    |
| Barnyardgrass*            | Indian lovegrass  |
| Crabgrass                 | (Stinkgrass)      |
| Cheatgrass                | Volunteer wheat   |
| Downy brome               | Witchgrass        |
| Green foxtail             | Wild oat*         |
| <b>Broadleaves</b>        |                   |
| Cocklebur*                | Prostrate spurge  |
| Common chickweed          | Purslane          |
| Dog fennel                | Russian thistle   |
| False flax                | Shepherdspurse    |
| Henbit                    | Smartweed         |
| Horseweed (mare's tail)   | (Pennsylvania)    |
| Kochia                    | Sunflower* (wild) |
| Lambsquarters             | Purple mustard    |
| Pennycress                | Tansy mustard     |
| Pigweed*                  | Tumble mustard    |
| Prickly lettuce           | Wild radish       |
| Prostrate knotweed        | Wild buckwheat*   |

Additional weeds controlled are listed in the Corn section of this label.

\*Under soil moisture and temperature conditions favoring deep germination, or other factors that may cause delayed germination, these species may not be completely controlled.

EXTRAZINE 90DF may be used alone or in tank-mix combination for the control of certain annual weeds during a fallow program.

EXTRAZINE 90DF should be used in tank-mix combination with Roundup, Paraquat CL, and/or 2,4-D as described below if growing vegetation is present. Should weeds become established before adequate rainfall for herbicide activation occurs, sweep tillage may be employed to destroy them.

**Application Directions**

Apply fallow cropland herbicide treatments uniformly to the soil surface. Adjust boom height on groundings to obtain the correct spray pattern at the top of the stubble rather than the ground. At sprayer speeds over 8 mph and when crop residues are heavy, use floodtype nozzles and at least 25 gallons per A. of carrier, unless Roundup is used. Refer to "EXTRAZINE combination with Roundup" in this section of the label for specific instructions.

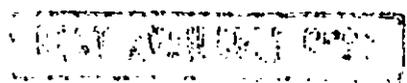
**EXTRAZINE 90DF Alone**

EXTRAZINE 90DF may be used where a maximum period of weed control is desired in a fallow cropland program. Treatments must be applied before November 15 of the year before planting winter wheat, or at least 11 months before planting spring wheat or durum wheat. Select the appropriate rates of EXTRAZINE for a particular location from Table 4. Add X-77 surfactant at 1 quart per 100 gallons of diluted spray.

Do not use this treatment on sands or on Rosebud or Canyon series soils, or on calcareous or calcine outcroppings because of possible atrazine carryover damage to the succeeding crop.

Do not graze or feed forage from treated areas to livestock within six months after application.

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**TypographicResources**

937-8896

JOB NO.: 9123-E (8296-C/8014-G)  
CLIENT: Unified Resources

GALLEY: 2-8  
DESC: Du Pont Extrazine 90DF ACL 2564  
DRAFT: D111986 Small Book

CLIENT JOB NO.:  
AREA: 16(ss)  
OPERATOR/DATE: dh 6/12/86  
MACHINE 1  MACHINE 2   
SPECS: 10pt Helvetica Bold Heads; 8/9 x 19 Helvetica w/Bold

P.O. NO.: 00722  
DISK(S): 01/S  
REV DRAFT: lj 12/2/86  
REV AAs: dh 7/29/86



DENSITY \_\_\_\_\_

PROOF \_\_\_\_\_

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TABLE 4 BROADCAST APPLICATION RATES PER ACRE FOR EXTRAZINE 90DF ON FALLOW CROPLAND*	
LOCATION/TREATMENT	LBS/ACRE EXTRAZINE 90DF
FALL APPLICATION FOR WINTER WHEAT Kansas, Southern Nebraska, Oklahoma, Colorado East Slope between Highway I-76 and State Highway 96	2.7

\*Use an additional 0.4 pounds per acre of BLADEX 90DF for soils with 2.0 to 3.0 percent organic matter.

Use an additional 0.9 pounds per acre of BLADEX 90DF for soils containing more than 3.0 percent organic matter.

Note: If conditions cause weeds to begin to germinate in the spring or summer following a post-harvest treatment of EXTRAZINE, an application of BLADEX 90DF may be made for additional weed control in the spring or summer prior to planting winter wheat. Apply as directed in the "BLADEX 90DF Applied Alone" fallow section of the BLADEX 90DF label. Do not make more than two applications of BLADEX 90DF or EXTRAZINE 90DF prior to planting.

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JOB NO.: 9123-E (8296-C:8014-G)  
CLIENT: Unified ResourcesGALLEY: 2-9  
DESC: Du Pont Extrazine 90DF ACL 2564  
DRAFT: D111986 Small BookCLIENT JOB NO.:  
AREA: 16(ss)  
OPERATOR/DATE: jh 6/12/86  
MACHINE 1 C MACHINE 2 C  
SPECS: 10pt Helvetica Bold Heads; 8/9 x 19 Helvetica w/BoldP.O. NO.: 00722  
DISK(S): o1/S  
REV DRAFT: ljc 12/2/86  
REV AAs: dh 7/29/86DENSITY: \_\_\_\_\_  
PROOF 10/12**EXTRAZINE Combinations With Paraquat**

On fallow cropland having an existing or established weed population, paraquat may be tank mixed at 1 to 2 pints per acre with EXTRAZINE as previously described in this section. Apply the recommended rates in at least 25 gallons of spray mixture per acre by ground rig or 5 to 10 gallons per acre for aerial application. Use higher volumes and the high rates of paraquat when weed growth is heavy or when dry weather conditions prevail. Add X-77 surfactant at 1 quart per 100 gallons of diluted spray.

**EXTRAZINE Combinations With 2,4-D Low Volatile Ester**

2,4-D LV Ester may be added to help control broadleaf weeds growing at the time of application. Use 1 1/2 to 2 pints per acre of 2,4-D LV 6-pound Ester (2 to 3 pints per acre of 2,4-D LV 4-pound Ester). Use the high rate when weeds are over 4 inches tall or when directed on the 2,4-D label for the control of hard-to-kill weed species, such as perennials. When 2,4-D LV is used, it should be added to the spray tank last.

**EXTRAZINE Combination with Roundup**

On fallow cropland having an existing or established weed population, Roundup may be tank mixed at 1 pint per acre with EXTRAZINE as previously described in this section. Apply the recommended rate of Roundup plus 0.5 to 1 percent non-ionic surfactant by total spray volume in 5 to 10 gallons of spray mixture per acre by ground rig. Refer to the Roundup label for specific application directions and weeds controlled with Roundup.

**Use of Supplemental Tillage**

In fields where established weeds are too large to be effectively controlled with paraquat or 2,4-D, sweep tillage should be employed. Till before applying the herbicide treatment. This type of tillage will preserve a maximum amount of existing stubble on the surface for soil protection. Similar tillage may also be used if weeds become established prior to receiving adequate rainfall for activation of the herbicide treatment. At some point prior to seeding wheat, the herbicide will degrade and no longer be effective. Limited tillage should be employed at this time. This tillage should be kept shallow to preserve as much moisture as possible for the crops.

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Dual™ - Trademark of Ciba-Geigy Corporation  
Eredicane™, Sutan +™ - Trademarks of Stauffer Chemical Company  
Roundup™, Lasso™ - Trademarks of Monsanto Company  
Ortho X-77™ - Trademark of Chevron Chemical Company  
Genete Plus™ - Trademark of PPG Industries, Inc.

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