

Reg # 352-525

PM-25

1921



PINNACLE®

HERBICIDE

REGISTRATION CODE 0000-000
PACKAGE SIZE 6 - 5 OUNCE BOTTLES/CARTON

DRY FLOWABLE

ACTIVE INGREDIENT		BY WEIGHT
Methyl 3-[[[(4-methoxy 5-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-amino]sulfonyl]-2-thiophenecarboxylate.....	25.0%	
INERT INGREDIENTS.....	75.0%	
	TOTAL	100 %

EPA Reg. No. 352-525

U.S. Patent 4,481,029

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

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

CAUTION! Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

STATEMENT OF PRACTICAL TREATMENT

If in eyes: Flush eyes with plenty of water. Call a physician if irritation persists.

If on skin: Wash with plenty of soap and water.

For medical emergencies involving this product, call toll free 1-800-441-3637.

ENVIRONMENTAL HAZARDS

Do not apply directly to water or wetlands (swamps, bogs, marshes and potholes). Do not contaminate water when disposing of equipment washwaters.

IMPORTANT

Injury to or loss of desirable trees or vegetation may result from failure to observe the following: Do not apply or drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. Do not use on lawns, walks, driveways, tennis courts or similar areas. Prevent drift of spray to desirable plants. Do not contaminate any body of water. Thoroughly clean application equipment immediately after use. (Refer to SPRAYER CLEANUP section of this label.)

DIRECTIONS FOR USE

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

FOR USE ON SOYBEANS ONLY.

Do not graze or feed forage, hay or straw from treated areas to livestock.

Do not apply this product through any type of irrigation system.

"Pinnacle" Herbicide should be used only in accordance with recommendations on this label or in separately published Du Pont recommendations. Du Pont will not be responsible for losses or damages resulting from the use of this product in any manner not specifically recommended by Du Pont.

**NOTIFICATION
LABEL NOT REVIEWED
PER PR NOTICE 8-2**
DATE **OCT 31 1907**

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GENERAL INFORMATION

Du Pont "Pinnacle" Herbicide is a dispersible granule formulation to be mixed with water and sprayed for selective postemergence weed control in soybeans.

"Pinnacle" will provide best postemergence results when applied to young actively growing weeds. Degree of control and duration of effect depend on: rate used, weed spectrum, weed size, growing conditions at and following time of treatment, soil moisture, precipitation, and spray adjuvants. Some weeds, such as lambsquarters, are more affected by stress than others. Delay application until stress passes and weeds start to grow again. Treating weeds under stress or large weeds may result in only partial control.

Because many crops, other than soybeans, are highly sensitive to "Pinnacle", all direct or indirect contact (such as spray drift) should be avoided.

BIOLOGICAL ACTIVITY

"Pinnacle" rapidly inhibits the growth of susceptible weeds. Following postemergence application leaves of susceptible plant appear yellow in 5-7 days followed by death of the growing point. Susceptible plants are controlled in 7-21 days. Death of leaf tissue will follow in some species while others will remain green but stunted and noncompetitive.

Temporary leaf yellowing, a wilted appearance, reddened veins and/or growth retardation of soybeans may occur following application of "Pinnacle". This growth retardation is generally in the form of shortened internode spacing. These effects will generally be most evident 5-7 days after application to soybeans. Under favorable soybean growing conditions, the crop will recover quickly.

APPLICATION INFORMATION

RATE

Apply "Pinnacle" at a rate of 1/4 ounce of product per acre.

TIMING TO CROP STAGE

"Pinnacle" may be applied to soybeans any time after the first trifoliolate has fully expanded, but no later than 60 days before harvest.

TIMING TO WEEDS

Best results are obtained when "Pinnacle" is applied to weeds that are young (after the first true leaves have expanded, but before they exceed the size indicated in the table below) and actively growing. Applications made to weeds that are in the cotyledon stage, larger than the size indicated below, or to weeds under stress may result in unsatisfactory control.

WEEDS CONTROLLED

When applied as directed, "Pinnacle" will provide **CONTROL** the following weeds:

	Size Range / Height (inches)
Velvetleaf*	2 - 6
Pigweed species**	2 - 12
Lambsquarters	2 - 4
Annual smartweeds	2 - 6
Wild Mustard**	up to 4***

When applied as directed, "Pinnacle" will provide **SUPPRESSION****** of the following weeds:

	Size Range / Height (inches)
Cocklebur	2 - 6
Jimsonweed	2 - 4
Wild sunflower	2 - 6

- * Requires the addition of ammonium nitrogen fertilizer (see **SPRAY ADDITIVES** section of this label).
- ** In the state of North Dakota and the area of Minnesota north and west of highways MN 27 and US 71, "Pinnacle" is only recommended for control of the pigweed species and wild mustard.
- *** Diameter
- **** Weed suppression is a visual reduction in weed competition (reduced population, size, and/or vigor) as compared to an untreated area. Degree of control can be increased by treating weeds when actively growing (not under stress).

ENVIRONMENTAL CONDITIONS

Conditions which are conducive to healthy, actively growing plants optimize the performance of "Pinnacle". Applications made during or immediately following periods of abnormally cold weather for soybeans may result in unsatisfactory weed control. Applications during periods of hot and humid weather increase the risk of crop injury.

Do not apply "Pinnacle" to plants under stress from abnormal weather (hot or cold), from growing conditions such as drought or water saturated soil, or from disease, nematode, insect or prior herbicide injury, as crop injury or poor weed control may result. Delay application until stress passes and weeds and soybeans resume growth. Severe stress from the above conditions which immediately follow application may also result in crop injury or poor weed control.

Do not apply "Pinnacle" if rain is expected within 1 hour, or weed control may be decreased.

SPRAY ADDITIVES

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Unless otherwise specified, applications of "Pinnacle" must include a nonionic surfactant at the rate (concentration) of 0.125% - 0.25% v/v (1 - 2 pints per 100 gallons of spray solution). **USE OF THE HIGHER RATE OF NONIONIC SURFACTANT, PARTICULARLY UNDER HOT, HUMID CONDITIONS, MAY INCREASE TEMPORARY CROP INJURY.** Use only EPA approved surfactants authorized for use on food crops. Use a nonionic surfactant of at least 80% active ingredient. **DO NOT USE DASH.**

Under dry conditions or during cool weather a crop oil concentrate at 0.5% v/v (4 pints/100 gallons of spray solution) may be used to enhance weed control. Use a petroleum based crop oil concentrate (0.5% v/v) with at least 15% emulsifiers/surfactant. **THE USE OF CROP OIL CONCENTRATE MAY INCREASE TEMPORARY INJURY TO SOYBEANS.**

The addition of ammonium nitrogen fertilizer is required for control of velvetleaf. Use a high quality liquid nitrogen fertilizer such as 28-0-0 at a rate of 2 - 4 quarts per acre (use the lower rate for spray volumes less than 15 gallons per acre) or 10-34-0 at a rate of 1 - 2 quarts per acre. Alternatively, a high quality, sprayable grade of ammonium sulfate (21-0-0) may be used at a rate 2 - 4 pounds per acre. The addition of ammonium nitrogen fertilizer does not replace the need for a surfactant.

CULTIVATION

A timely cultivation may be necessary to control suppressed weeds, weeds which were beyond the maximum size at the time of application, or weeds which emerge after an application of "Pinnacle".

Cultivation before, during or within 7 days after the application is not recommended. Cultivation may put weeds under stress by pruning roots, thus making control more difficult to obtain. The best time to cultivate is approximately 14 days after application.

ROTATIONAL CROP GUIDELINES

Any crop may be planted 45 days after the application of "Pinnacle".

APPLICATION EQUIPMENT

SPRAY TANK PREPARATION

It is important that spray equipment is cleaned and free of existing pesticide deposits before using "Pinnacle". Follow the cleanup procedures specified on the label of the product previously sprayed. If no cleanout is provided, follow this cleanout procedure for all application equipment:

1. Thoroughly rinse sprayer, tanks, boom, and hoses with clean water.
2. Partially fill the tank with water and add ammonia (1 gallon of 3% (household) ammonia per 100-gallons of tank volume) or a tank cleaner (follow individual label instructions for amount of detergent to use). Complete filling the tank and flush the cleaning solution through the boom and hoses. Let stand for 15 minutes with agitation/recirculation and then drain the tank after flushing the hoses, boom and nozzles.
3. Thoroughly rinse sprayer, tanks, boom, and hoses with clean water.
4. Follow label directions of the product previously sprayed for rinsate disposal.

NOTES:

1. A steam cleaning of aerial spray tanks is recommended to dislodge any visible pesticide deposits.
2. During an extended period where spraying (or mixing) equipment will be used to apply multiple loads of "Pinnacle", at the end of each day of spraying partially fill the tank with fresh water, flush the boom and hoses and allow to sit overnight.

GROUND APPLICATION (See also SPRAY DRIFT)

Broadcast Application: Use flat fan nozzles at 25-60 psi. Do not use flood, hollow cone, rain drop, whirl chamber or controlled droplet applicator (CDA) type nozzles as unacceptable crop injury, excessive spray drift, or poor weed control may result. Use 10 - 25 gallons of water per acre. For proper spray coverage adjust the boom and nozzle height according to the specifications listed by the nozzle manufacturer.

Band Applications: For band application, use proportionately less. Carefully calibrate the band applicator to not exceed the labeled rate or injury may occur. To avoid improper use of band application equipment carefully follow the manufacturers instructions for nozzle types, nozzle orientation, distance of the nozzles from the crop and weeds, spray volumes, calibration and spray pressure. For additional information on row banders see Du Pont's bulletin, "Application Accuracy - Row Banders".

AERIAL APPLICATION (See also SPRAY DRIFT)

Use nozzle types and arrangements that will provide for optimum spray distribution and maximum coverage at 5 to 10 GPA. Do not apply during a temperature inversion condition, when winds are gusty, or when other conditions will favor poor coverage and/or off target spray movement. Use a minimum of 5 gallons of water per acre.

MIXING INSTRUCTIONS

"Pinnacle" should be thoroughly mixed with water in the spray tank before adding any other material (e.g. surfactant, crop oil concentrate or nitrogen fertilizer). Agitation is required for uniform mixing and application.

Apply "Pinnacle" spray preparation within 24 hours of product mixing or product degradation may occur.

Thoroughly reagitrate before using if allowed to settle.

TANK MIX APPLICATIONS

Do not tank mix "Pinnacle" with any other pesticide or spray adjuvant except as specified on this or other supplemental labeling.

Do not tank mix "Pinnacle" with organophosphate insecticides, or apply "Pinnacle" within 14 before or after and application of an organophosphate insecticide as severe crop injury may occur.

"PINNACLE" plus CLASSIC® HERBICIDE

"Pinnacle" can be tank-mixed with Du Pont's "Classic" Herbicide to provide control of the weeds listed below. The rates for this tank mix are 1/4 ounce of "Pinnacle" plus 1/4 ounce of "Classic" per acre.

Applications of "Pinnacle" plus "Classic" must include the addition of a nonionic surfactant at a rate (concentration) of 0.125% - 0.25% v/v (1 - 2 pints per 100 gallons of spray solution). USE OF THE HIGHER RATE OF NONIONIC SURFACTANT, PARTICULARLY UNDER HOT AND HUMID CONDITIONS, MAY INCREASE TEMPORARY CROP INJURY. Use only EPA approved surfactants authorized for use on food crops. **DO NOT USE "DASH."**

Under dry conditions or during cool weather a crop oil concentrate at the rate (concentration) of 0.5% v/v (4 pints per 100 gallons of spray solution) may be used to enhance weed control. Use a petroleum based crop oil concentrate with at least 15% emulsifiers/surfactant. THE USE OF CROP OIL CONCENTRATE MAY INCREASE TEMPORARY CROP INJURY.

The use of "Classic" at 1/4 ounce per acre is not limited by soil pH. However, the crop rotation intervals appearing at the end of this section must be adhered to when using "Classic".

Use of the "Pinnacle" plus "Classic" tank mix is not permitted in the state of North Dakota or that area of Minnesota north and west of highways MN 27 and US 71.

When applied as directed, "Pinnacle" plus "Classic", at a rate of 1/4 ounce plus 1/4 ounce per acre, will provide CONTROL of the following weeds:

	Size Range / Height (inches)
Velvetleaf	2 to 8
Pigweed species	2 to 12
Lambsquarters	2 to 4
Annual Smartweeds	2 to 8
Wild Mustard	up to 4"
Cocklebur	2 to 4
Wild Sunflower	2 to 8
Jimsonweed	2 to 5

When applied as directed, "Pinnacle" plus "Classic", at a rate of 1/4 ounce plus 1/4 ounce per acre, will provide **SUPPRESSION**** of the following weeds:

	Size Range / Height (inches)
Morningglory species	
Entireleaf	1 to 2
Ivyleaf	1 to 2
Pitted	1 to 2
Smallflower	1 to 2
Tall	1 to 2
Common Ragweed	1 to 3

* Requires the addition of ammonium nitrogen fertilizer (see **SPRAY ADDITIVES** section of this label).

** Diameter

*** Weed suppression is a visual reduction in weed competition (reduced population, size, and/or vigor) as compared to an untreated area. Degree of control can be increased by treating weeds when actively growing (not under stress).

Crop Rotation: When using "Classic" in a tank mix with "Pinnacle" the following crop rotation intervals must be observed:

Rotational Crop Guidelines for "Pinnacle" Plus "Classic" Tank Mixes

Crop	Rotational Interval In Months
Soybeans	Anytime
Cereal Grains	3
Ryegrass	3
Field Corn*	9
Cotton	9
Alfalfa	9
Clover	9
Dry Beans	9
Sorghum	9
Peanut	6
Rice	9
Tobacco (transplant)	9
Tomato (transplant)	9

All other crops require a successful field bioassay. Suggested interval before initiating bioassay is 9 months. The season before planting any crop not listed above, a successful field bioassay must be completed. The field bioassay will detect small quantities of "Classic" which can remain in the soil and injure rotational crops. A successful field bioassay means growing to maturity a test strip of crop(s) intended for production the following year. The test strip should cross the whole field including knolls and low areas.

* When using "Classic" Herbicide, the term "FIELD CORN" is defined to include only that corn grown for grain or silage, popcorn, and seed corn relative to the Rotational Crop Guidelines section of this label.

"PINNACLE" or "Pinnacle" + "CLASSIC" plus POST GRASS HERBICIDES

"Pinnacle" or "Pinnacle" + "Classic" may be tank-mixed with a post grass herbicide such as "Assure". Under certain conditions, "Pinnacle" may be antagonistic to the grass herbicide. However, the activity of "Pinnacle" or "Pinnacle" plus "Classic" will not be affected. Refer to the grass herbicide label for specific use information and precautions.

When tank mixing "Pinnacle" plus a post grass herbicide or "Pinnacle" + "Classic" plus a post grass herbicide the addition of a nonionic surfactant at a rate (concentration) of 0.125% to 0.25% (1 - 2 pints per 100 gallons of spray solution) is required. **USE OF THE HIGHER RATE OF NONIONIC SURFACTANT, PARTICULARLY UNDER HOT, HUMID CONDITIONS, MAY INCREASE TEMPORARY CROP INJURY.** Ammonium nitrogen fertilizer may also be added if required for weed control. **DO NOT ADD "DASH" OR CROP OIL CONCENTRATE WHEN TANK MIXING WITH POST GRASS HERBICIDES AS INJURY MAY OCCUR.**

NOTE: Do not tank mix "Pinnacle" or "Pinnacle" + "Classic" with Poast¹ or Poast Plus¹.

SPRAYER CLEANUP

To avoid subsequent injury to crops other than soybeans, thoroughly clean all mixing and spray equipment immediately following applications of "Pinnacle" as follows:

1. Drain tank; thoroughly hose down the interior surfaces of the tank; then flush tank, boom and hoses with clean water for a minimum of 5 minutes.
2. Partially fill the tank with clean water and add one of the cleaning agents listed below. Complete filling the tank with water, then flush the cleaning solution through the boom, hoses, and nozzles. Add more water to completely fill the tank and allow to agitate/recirculate for at least 15 minutes. Again, flush the hoses, boom, and nozzles with the cleaning solution, then drain the tank.
3. Repeat Step 2.
4. Remove the nozzles and screens and clean separately in a bucket containing the cleaning agent and water.
5. Thoroughly rinse the tank with clean water for a minimum of 5 minutes, flushing the water through the hoses and boom.

NOTE: Use any of the following cleaning agents. Carefully read and follow the individual cleaning agent instructions.

1. One gallon ammonia (containing 3% active) per 100 gallons of water.
2. Nutra-Soil²
3. Loveland Spray Tank Cleaner³
4. Protank Cleaner⁴
5. Chem-Tank Cleaner and Neutralizer⁵
6. Incide-Out⁶
7. Tank-Aid⁷



SPRAY DRIFT

Do not allow spray from either ground or aerial equipment to drift onto adjacent crops or land, as injury to other plants may occur. When spraying adjacent to crops other than soybeans, minimize the spray drift potential. Follow these practices to minimize spray drift:

- o Stop spraying if wind speed becomes excessive. Spray drift can occur at wind speeds less than 10 MPH. Do not spray if sensitive crops are downwind. **DO NOT SPRAY IF WINDS ARE GUSTY.**
- o High temperatures, drought, and low relative humidity increase the possibility of spray drift. **EXTREME CAUTION MUST BE USED WHEN THESE CONDITIONS ARE PRESENT AND SENSITIVE CROPS OR PLANTS ARE NEARBY, REGARDLESS OF WIND SPEED.**
- o Do not apply when a temperature inversion exists. An inversion is characterized by low air movement and an increase in air temperature with an increase in altitude. In humid regions, a fog or mist may form. An inversion may be detected by producing a smoke column and checking for a layering effect. Smoke-producing devices on aircraft are recommended. *If not sure whether inversion conditions are present, consult with local weather services before making an application.*
- o Drift from aerial or ground equipment may be further reduced by:
 1. Using large droplet size sprays to minimize drift. **DO NOT USE HOLLOW-CONE NOZZLES ON GROUND EQUIPMENT.** Do not use nozzles that produce very small droplets, such as airblast-type nozzles. Nozzles should be oriented at an angle between straight down and straight back for ground applications. For aerial applications orient nozzles straight back along the windstream. If using flood-type nozzles on aircraft, orient them so spray is produced in direction of the airstream.
 2. Increasing volume of spray mix per acre (for example, 10 GPA by air, 25 GPA by ground) by using higher flow rate nozzles.
 3. Reducing pressure (PSI). Do not exceed 60 psi when applying "Pinnacle". (Vehicle speed must also be reduced to maintain spray mix volume per acre.) Consult manufacturer's catalogs for details on correct calibration.
 4. Apply as close to target plants as possible while still maintaining a

STORAGE AND DISPOSAL

STORAGE: Store product in original container only, away from other pesticides, fertilizer, food or feed.

PRODUCT DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning, or purchase and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

good spray pattern.

NOTICE OF WARRANTY

Du Pont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with 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 EXPRESSED OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**

NOTICE TO BUYER: Purchase of this material does not confer any rights under patents of countries outside of the United States.

- 1 Registered Trademark of BASF AG
- 2 Sold by Thomas G. Kilfoil, San Bruno, CA.
- 3 Registered trademark of Loveland Industries, Inc.
- 4 Manufactured for Cenex/Land 'O Lakes Agronomy Co.
- 5 Manufactured by Farmbelt Chemicals, Inc.
- 6 Trademark of Precision Laboratories, Inc.
- 7 Manufactured for Cornbelt Chemical Company.

D-101090

6921

DocuComp Comparison Summary

1. Document Information

	<u>Newer File</u>	<u>Older File</u>
Name:	PINNACLE D-101090 TEXT	PINNACLE AG-3263-1 TEXT
Folder:	TEXT FILES	TEXT FILES
Disk:	Macintosh HD	Macintosh HD
Date:	Fri, Oct 26, 1990	Mon, Aug 20, 1990
Time:	7:34 AM	7:03 AM
Size:	32117 bytes	17920 bytes
Lines:	468	374

2. Summary of Changes

<u>Type</u>	<u>Count</u>	<u>Appearance</u>
Replacements:	55	Old Text <u>New Text</u>
Insertions:	18	<u>Inserted Text</u>
Deletions:	11	Deleted Text
Moves:	9	<u>New Location</u> Old Location

3. Detail of Changes

Page Line Change Text

1	1	Insert	"PINNACLE®"
1	2	Delete	"PINNACLE(R)"
1	36	Replace	"by cleaning" by "when disposing"
1	37	Replace	"or disposal of wastes." by "washwaters."
2	2	Delete	"all traces of Du Pont "Pinnacle" Herbicide from"
2	3	Replace	"sprayer cleanup" by "SPRAYER CLEANUP"
2	3	Replace	"label and the referenced supplemental..." by "label.)"
2	7	Delete	"Du Pont "Pinnacle" Herbicide is a dispersible granule formulation to be mixed with..."
2	21	Move	"DIRECTIONS FOR USE It is a violation of federal law to use this product in a manner..." from page 1 line 39
2	29	Move	"Do not graze or feed forage, hay or straw from treated areas to livestock. Do not" from page 12 line 28
2	31	Replace	"tank mix "Pinnacle" or apply "Pinnacle"..." by "apply this product through any type of..."
2	34	Delete	"...ND...Thefollowing precautions pertain to North Dakota and the area of Minnesota..."
2	45	Replace	"Pinnacle" by "Pinnacle"
2	45	Move	"Herbicide should be used only in accordance with recommendations on this label or in..." from page 1 line 43
2	51	Insert	"GENERAL INFORMATION Du Pont "Pinnacle" Herbicide is a dispersible granule..."
3	18	Replace	"Severe stress, drought, disease, insect..." by "Temporary leaf yellowing, a wilted..."
3	19	Insert	"of "Pinnacle". This growth retardation is generally in the form of shortened internode..."
3	25	Insert	"APPLICATION INFORMATION RATE Apply "Pinnacle" at a rate of 1/4 ounce of..."
4	20	Replace	"may also result in" by "Conditions which are conducive to healthy, actively growing..."
4	25	Move	"Do not apply" from page 2 line 49
4	25	Replace	"Pinnacle" by "Pinnacle"
4	25	Replace	"cold) or" by "cold), from"
4	26	Replace	"conditions, drought," by "conditions such as drought or"

NOTIFICATION
 (LABEL NO) REQUIRED
 FOR ALL NOTICES
 DATE 10/31/90

77-21

- 4 26 Insert "or from"
- 4 27 Insert "nematode,"
- 4 28 Insert "Severe stress from the above conditions which immediately follow application may also..."
- 4 35 Insert "Do not apply "Pinnacle" if rain is expected within 1 hour, or weed control may be..."
- 4 40 Replace "specified otherwise," by "otherwise specified,"
- 4 40 Replace ""Pinnacle" or "Pinnacle" plus "Classic"" by ""Pinnacle""
- 4 41 Insert "nonionic"
- 4 41 Insert "- 0.25%"
- 4 41 Replace "pt." by "- 2 pints"
- 4 42 Insert "USE OF THE HIGHER RATE OF NONIONIC SURFACTANT, PARTICULARLY UNDER..."
- 4 44 Replace "The addition of liquid nitrogen fertilizer (for..." by "DO NOT USE DASH1."
- 4 47 Move "Under dry conditions"
from page 4 line 49
- 4 47 Replace "a nonionic surfactant of 0.25% v/v (2 pts...." by "or during cool weather"
- 4 48 Delete "pts."
- 4 48 Replace "per 100" by "pints/100"
- 4 48 Replace "to the spray solution is required for control..." by "may be used to enhance"
- 4 51 Delete "gal/100 gal) and 4% v/v (4 gal/100 gal) liquid nitrogen may be used to increase"
- 4 52 Replace "The use of crop oil concentrate or high..." by "THE USE OF CROP OIL..."
- 5 2 Replace "GROUND APPLICATION Use flat fan..." by "The addition of ammonium nitrogen fertilizer..."
- 5 24 Move "Cultivation before, during or within 7 days after the application is not recommended..."
from page 4 line 31
- 5 28 Insert "ROTATIONAL CROP GUIDELINES Any crop may be planted 45 days after the..."
- 6 24 Replace "NOTE: Do not apply this product through..." by "MIXING INSTRUCTIONS"
- 7 50 Replace ""Pinnacle"" by ""Pinnacle""
- 7 50 Move "should be thoroughly mixed with water in the spray tank before adding any other..."
from page 2 line 14
- 7 51 Delete "Use a minimum of 10 gallons of water per acre for ground application and a minimum of..."
- 8 1 Replace ""Pinnacle"" by ""Pinnacle""
- 8 6 Replace "Application Recommendation "Pinnacle"..." by "TANK MIX APPLICATIONS Do not tank..."
- 9 28 Replace "Rotational Crop Guidelines for "Pinnacle"..." by "for "Pinnacle" Plus "Classic""
- 9 36 Replace "Corn" by "Field Corn"
- 9 42 Replace "9" by "6"
- 9 49 Replace ""Classic"" by ""Classic""
- 9 54 Insert "When using "Classic" Herbicide, the term "FIELD CORN" is defined to include only..."
- 10 8 Replace "Pinnacle" or "Pinnacle" plus "Classic" by ""Pinnacle" or "Pinnacle" + "Classic""
- 10 8 Move "may be tank-mixed with"
from page 7 line 45
- 10 8 Insert "a"
- 10 9 Replace "herbicides" by "herbicide"
- 10 9 Replace ""Assure" by ""Assure"."
- 10 9 Replace ""Pinnacle"" by ""Pinnacle""
- 10 10 Replace ""Pinnacle"" by ""Pinnacle" or "Pinnacle" plus "Classic""
- 10 14 Replace "Do not allow spray from any tank-mix of..." by "When tank mixing "Pinnacle" plus a post..."
- 10 40 Delete "soybeans immediately after"
- 10 40 Replace "spraying and prior to spraying other crops," by "soybeans."
- 10 41 Replace "remove all traces of "Pinnacle" from" by "clean all"
- 10 42 Insert "immediately following applications of "Pinnacle""
- 10 44 Replace "tank," by "tank; thoroughly hose down the interior surfaces of the tank;"
- 10 44 Replace "tank" by "tank,"
- 10 45 Replace "10 minutes." by "5 minutes."
- 10 47 Replace "2. Fill the tank with clean water then add..." by "2. Partially fill the tank with clean water..."
- 11 16 Replace "Use" by "NOTE: Use"
- 11 16 Replace "solutions " b; "agents. Carefully read and follow the individual cleaning agent..."

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- 11 21 Replace "2. Nutra-Sol[1] (carefully read and follow..." by "2. Nutra-Sol2"
- 11 24 Replace "Cleaner[2] (carefully read and follow..." by "Cleaner3"
- 11 27 Replace "4. Tank-Aid[3] (carefully read and follow..." by "4. Protank Cleaner4 5. Chem-Tank..."
- 11 48 Delete "wheat, barley or corn,"
- 11 49 Delete "This can be accomplished by:"
- 11 49 Move "Follow these practices to minimize"
from page 11 line 45
- 11 49 Replace "drift." by "spray drift:"
- 11 51 Replace "PHP. do" by "MPH. Do"
- 11 52 Delete "adjacent"
- 12 12 Replace "drop" by "droplet"
- 12 12 Insert "DO NOT USE HOLLOW-CONE NOZZLES ON GROUND EQUIPMENT."
- 12 18 Replace "20" by "25"
- 12 21 Replace "Use flat fan nozzles at 25-40 psi or hollow..." by "Do not exceed 60 psi when applying "..."
- 13 4 Insert "1 Registered Trademark of BASF AG"
- 13 5 Replace "[1]" by "2"
- 13 6 Replace "[2]" by "3"
- 13 7 Insert "4 Manufactured for Cenex/Land 'O Lakes Agronomy Co. 5 Manufactured by Farmbelt..."
- 13 10 Replace "[3]" by "7"
- 13 12 Replace "AG-3263 8049/8119 4/28/89" by "D-101090 © 1990 E.I. DU PONT DE NEMOURS &..."

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PINNACLE®

~~PINNACLE(R)~~ HERBICIDE

DRY FLOWABLE

5

ACTIVE INGREDIENT

BY WEIGHT

Methyl 3-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]-amino]sulfonyl]-2-thiophenecarboxylate.....25.0%

10

INERT

INGREDIENTS.....

75.0%

TOTAL 100%

15

EPA Reg. No. 352-525

U.S. Patent 4,481,029

KEEP OUT OF REACH OF CHILDREN
CAUTION

3

20

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION! Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

25

STATEMENT OF PRACTICAL TREATMENT

If in eyes: Flush eyes with plenty of water. Call a physician if irritation persists.

30

If on skin: Wash with plenty of soap and water.

For medical emergencies involving this product, call toll free 1-800-441-3637.

ENVIRONMENTAL HAZARDS

5

Do not apply directly to water or wetlands (swamps, bogs, marshes and potholes). Do not contaminate water by ~~cleaning when disposing of equipment or disposal of wastes.~~ washwaters.

~~DIRECTIONS FOR USE~~

40

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

~~"Pinnacle" Herbicide should be used only in accordance with recommendations on this label or in separately published Du Pont recommendations.~~

45

~~Du Pont will not be responsible for losses or damages resulting from the use of this product in any manner not specifically recommended by Du Pont.~~

50 IMPORTANT

Injury to or loss of desirable trees or vegetation may result from failure to observe the following: Do not apply or drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. Do not use on lawns, walks,

10-7-21

driveways, tennis courts or similar areas. Prevent drift of spray to desirable plants. Do not contaminate any body of water. Thoroughly clean all traces of Du Pont "Pinnacle" Herbicide from application equipment immediately after use. (Refer to ~~sprayer cleanup~~ SPRAYER CLEANUP section of this label and the referenced supplemental bulletin.)

5

~~Du Pont "Pinnacle" Herbicide is a dispersible granule formulation to be mixed with water and sprayed broadcast for selective postemergence weed control in soybeans.~~

10 Spray Tank Preparation

~~Prior to spraying "Pinnacle", thoroughly clean sprayer tanks, booms, hoses, nozzles, mixing cones, etc.)~~

15

~~"Pinnacle" should be thoroughly mixed with water in the spray tank before adding any other material (e.g., surfactant, crop oil concentrate or nitrogen fertilizer). Use a minimum of 10 gallons of water per acre for ground application and a minimum of 5 gallons per acre for aerial application. Agitation is required for uniform mixing and application. Apply "Pinnacle" spray preparation within 24 hours of product mixing or product degradation may occur. Thoroughly reagitrate before using if allowed to settle.~~

20

DIRECTIONS FOR USE

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

25 PRECAUTIONS

FOR USE ON SOYBEANS ONLY.

Do not graze or feed forage, hay or straw from treated areas to livestock.

30

Do not tank mix "Pinnacle" or apply "Pinnacle" within 14 days of application(s) of organophosphate insecticides. apply this product through any type of irrigation system.

~~ND...The following precautions pertain to North Dakota and the area of Minnesota north and west of highways MN 27 and US 71.~~

5

- ~~e. "Pinnacle" plus "Glaccio" tank mix is not recommended.~~
- ~~e. "Pinnacle" is recommended for control of pigweed species.~~
- ~~e. Do not use hollow cone nozzles with "Pinnacle".~~

40

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45 ~~"Pinnacle" "Pinnacle" Herbicide should be used only in accordance with recommendations on this label or in separately published Du Pont recommendations.~~

~~Du Pont will not be responsible for losses or damages resulting from the use of this product in any manner not specifically recommended by Du Pont.~~

50

~~Do not apply "Pinnacle" to plants under stress from abnormal weather (hot or cold), or growing conditions, drought, water saturated soil, disease, insect or prior herbicide injury, as crop injury or poor weed control may result.~~ GENERAL INFORMATION

Du Pont "Pinnacle" Herbicide is a dispersible granule formulation to be mixed with water and sprayed for selective postemergence weed control in soybeans.

5 | "Pinnacle" will provide best postemergence results when applied to young actively growing weeds. Degree of control and duration of effect depend on: rate used, weed spectrum, weed size, growing conditions at and following time of treatment, soil moisture, precipitation, and spray adjuvants. Some weeds, such as lambsquarters, are more affected by stress than others. Delay application until stress passes and weeds start to grow again. Treating weeds under stress or large weeds may result in only partial control.

10 | Because many crops, other than soybeans, are highly sensitive to "Pinnacle", all direct or indirect contact (such as spray drift) should be avoided.

10 | BIOLOGICAL ACTIVITY

15 | "Pinnacle" rapidly inhibits the growth of susceptible weeds. Following postemergence application leaves of susceptible plant appear yellow in 5-7 days followed by death of the growing point. Susceptible plants are controlled in 7-21 days. Death of leaf tissue will follow in some species while others will remain green but stunted and noncompetitive.

20 | Severe stress, drought, disease, insect damage or nutrient deficiency. Temporary leaf yellowing, a wilted appearance, reddened veins and/or growth retardation of soybeans may occur following application of "Pinnacle". This growth retardation is generally in the form of shortened internode spacing. These effects will generally be most evident 5-7 days after application to soybeans. Under favorable soybean growing conditions, the crop will recover quickly.

25 | APPLICATION INFORMATION

30 | RATE

30 | Apply "Pinnacle" at a rate of 1/4 ounce of product per acre.

35 | TIMING TO CROP STAGE

35 | "Pinnacle" may be applied to soybeans any time after the first trifoliolate has fully expanded, but no later than 60 days before harvest.

40 | TIMING TO WEEDS

40 | Best results are obtained when "Pinnacle" is applied to weeds that are young (after the first true leaves have expanded, but before they exceed the size indicated in the table below) and actively growing. Applications made to weeds that are in the cotyledon stage, larger than the size indicated below, or to weeds under stress may result in unsatisfactory control.

45 | WEEDS CONTROLLED

45 | When applied as directed, "Pinnacle" will provide CONTROL the following weeds:

	<u>Size Range / Height (inches)</u>
<u>Velvetleaf</u>	<u>2-6</u>
<u>Pigweed species**</u>	<u>2-12</u>
<u>Lambsquarters</u>	<u>2-4</u>
<u>Annual smartweeds</u>	<u>2-6</u>
<u>Wild Mustard**</u>	<u>up to 4***</u>

12 7 21

When applied as directed, "Pinnacle" will provide SUPPRESSION**** of the following weeds:

Size Range / Height (inches)

Cocklebur	2-6
Jimsonweed	2-4
Wild sunflower	2-6

* Requires the addition of ammonium nitrogen fertilizer (see SPRAY ADDITIVES section of this label).

** In the state of North Dakota and the area of Minnesota north and west of highways MN 27 and US 71, "Pinnacle" is only recommended for control of the pigweed species and wild mustard.

*** Diameter

**** Weed suppression is a visual reduction in weed competition (reduced population, size, and/or vigor) as compared to an untreated area. Degree of control can be increased by treating weeds when actively growing (not under stress).

ENVIRONMENTAL CONDITIONS

may also result in Conditions which are conducive to healthy, actively growing plants optimize the performance of "Pinnacle". Applications made during or immediately following periods of abnormally cold weather for soybeans may result in unsatisfactory weed control. Applications during periods of hot and humid weather increase the risk of crop injury.

Do not apply "Pinnacle" to plants under stress from abnormal weather (hot or cold) or cold, from growing conditions, drought, conditions such as drought or water saturated soil, or from disease, nematode, insect or prior herbicide injury, as crop injury or poor weed control may result. Delay application until stress passes and weeds and soybeans resume growth. Severe stress from the above conditions which immediately follow application may also result in crop injury or poor weed control.

~~Cultivation before, during or within 7 days after the application is not recommended. Cultivation may put weeds under stress by pruning roots, thus making control more difficult to obtain. The best time to cultivate is approximately 14 days after application.~~

Do not apply "Pinnacle" if rain is expected within 1 hour, or weed control may be decreased.

SPRAY ADDITIVES

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Unless specified otherwise, otherwise specified, applications of "Pinnacle" or "Pinnacle" plus "Classic" "Pinnacle" must include a nonionic surfactant at the rate (concentration) of 0.125% - 0.25% v/v (1 pt. - 2 pints per 100 gallons of spray solution). USE OF THE HIGHER RATE OF NONIONIC SURFACTANT, PARTICULARLY UNDER HOT, HUMID CONDITIONS, MAY INCREASE TEMPORARY CROP INJURY. Use only EPA approved surfactants authorized for use on food crops. Use a nonionic surfactant of at least 80% active ingredient. ~~The addition of liquid nitrogen fertilizer (for example, 28-0-0) at the rate (concentration) of 4% v/v (4 gal. DO NOT USE DASH 1.~~

~~Under dry conditions a nonionic surfactant of 0.25% v/v (2 pts. per 100 gallons) or or during cool weather a crop oil concentrate at 0.5% v/v (4 pts. per 100 pints/100 gallons of spray solution) or the spray solution is required for control of certain species. may be used to enhance Under dry conditions a nonionic surfactant of 0.25% v/v (2 pts. per 100 gallons) or a crop oil concentrate at 0.5% v/v (1 pts. gal/100 gal) and 4% v/v (4 gal/100 gal) liquid nitrogen may be used to increase weed control. Use a petroleum based crop oil concentrate (0.5% v/v) with at least 15% emulsifiers/surfactant. The use of crop oil concentrate or high rates (0.25% v/v) of surfactant may increase injury to soybeans. THE USE OF CROP OIL CONCENTRATE MAY INCREASE TEMPORARY INJURY TO SOYBEANS.~~

GROUND APPLICATION

Use flat fan nozzles at 25-40 psi or hollow cone nozzles at 40-60 psi (see "Precautions" ... ND). Adjust the boom height for good weed coverage. Use a minimum of 10 gallons of water per acre.

e. ~~Do not apply "Pinnacle" if rain is expected within 1 hour, or weed control may be decreased.~~

e. ~~For band application, use proportionately less. Carefully calibrate band applicator to not exceed labeled rates or injury may occur.~~

AERIAL APPLICATION

The addition of ammonium nitrogen fertilizer is required for control of velvetleaf. Use a high quality liquid nitrogen fertilizer such as 28-0-0 at a rate of 2 - 4 quarts per acre (use the lower rate for spray volumes less than 15 gallons per acre) or 10-34-0 at a rate of 1 - 2 quarts per acre. Alternatively, a high quality, sprayable grade of ammonium sulfate (21-0-0) may be used at a rate 2 - 4 pounds per acre. The addition of ammonium nitrogen fertilizer does not replace the need for a surfactant.

CULTIVATION

A timely cultivation may be necessary to control suppressed weeds, weeds which were beyond the maximum size at the time of application, or weeds which emerge after an application of "Pinnacle".

Cultivation before, during or within 7 days after the application is not recommended.

Cultivation may put weeds under stress by pruning roots, thus making control more difficult to obtain. The best time to cultivate is approximately 14 days after application.

ROTATIONAL CROP GUIDELINES

Any crop may be planted 45 days after the application of "Pinnacle".

APPLICATION EQUIPMENT

SPRAY TANK PREPARATION

It is important that spray equipment is cleaned and free of existing pesticide deposits before using "Pinnacle". Follow the cleanup procedures specified on the label of the product previously sprayed. If no cleanout is provided, follow this cleanout procedure for all application equipment:

1. Thoroughly rinse sprayer, tanks, boom, and hoses with clean water.

2. Partially fill the tank with water and add ammonia (1 gallon of 3% (household) ammonia per 100-gallons of tank volume) or a tank cleaner (follow individual label instructions for amount of detergent to use). Complete filling the tank and flush the cleaning solution through the boom and hoses. Let stand for 15 minutes with agitation/recirculation and then drain the tank after flushing the hoses, boom and nozzles.

3. Thoroughly rinse sprayer, tanks, boom, and hoses with clean water.

4. Follow label directions of the product previously sprayed for rinsate disposal.

NOTES:

1. A steam cleaning of aerial spray tanks is recommended to dislodge any visible pesticide deposits.

2. During an extended period where spraying (or mixing) equipment will be used to apply multiple loads of "Pinnacle", at the end of each day of spraying partially fill the tank with fresh water, flush the boom and hoses and allow to sit overnight.

5] GROUND APPLICATION (See also SPRAY DRIFT)

10 Broadcast Application: Use flat fan nozzles at 25-60 psi. Do not use flood, hollow cone, rain drop, whirl chamber or controlled droplet applicator (CDA) type nozzles as unacceptable crop injury, excessive spray drift, or poor weed control may result. Use 10 - 25 gallons of water per acre. For proper spray coverage adjust the boom and nozzle height according to the specifications listed by the nozzle manufacturer.

15 Band Applications: For band application, use proportionately less. Carefully calibrate the band applicator to not exceed the labeled rate or injury may occur. To avoid improper use of band application equipment carefully follow the manufacturers instructions for nozzle types, nozzle orientation, distance of the nozzles from the crop and weeds, spray volumes, calibration and spray pressure. For additional information on row banders see Du Pont's bulletin, "Application Accuracy - Row Banders".

] AERIAL APPLICATION (See also SPRAY DRIFT)

20 Use nozzle types and arrangements that will provide for optimum spray distribution and maximum coverage at 5 to 10 GPA. Do not apply during a temperature inversion condition, when winds are gusty, or when other conditions will favor poor coverage and/or off target spray movement. Use a minimum of 5 gallons of water per acre.

] NOTE: Do not apply this product through any type of irrigation system.

25 APPLICATION RATE/GUIDELINES

30 Use 1/4 ounce "Pinnacle" per acre. "Pinnacle" can be applied after the first trifoliolate is fully expanded until 60 days before harvest. Apply to actively growing young weeds.

35 "Pinnacle" 1/4 ounce per acre (See "Precautions"...ND)

<u>Controlled</u>	<u>—Weed Height (inches)</u>
Velvetleaf*	—up to 6
Pigweed species	—up to 12
Lambsquarters	—2-4
Annual smartweed	—up to 6

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<u>Weeds Suppressed**</u>	<u>—Weed Height (inches)</u>
Goosebur	—up to 6
Jimsonweed	—up to 4
Wild sunflower	—up to 6

40 : — Requires the addition of liquid nitrogen fertilizer at the rate of 4% v/v (4 gal/100 gal) to the spray solution. Weed control to other species may also be enhanced.

50 **: — Weed suppression is a visual reduction in weed competition (reduced population, size, and/or vigor) as compared to an untreated area. Degree of control can be increased by treating weeds when actively growing (not under stress).

] TANK MIX APPLICATIONS

"Pinnacle" plus "Classic"

"Pinnacle" can be tank mixed and applied with rates of "Classic" herbicide that do not exceed 1/4 ounce/acre to improve control of certain broadleaf weeds. Rates of "Classic" to be tank mixed with "Pinnacle" described in this label are not limited by soil pH. (See "Precautions" ND). Utilize the surfactant, crop oil and/or liquid nitrogen recommendations indicated for "Pinnacle" applied alone.

1/4 ounce per acre plus "Classic" 1/4 ounce per acre

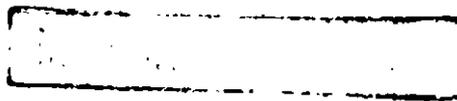
Woods Controlled	—Wood Height (inches)
Velvetleaf*	—up to 8
Pigweeds	—up to 12
Lambsquarters	2-4
Smartweed, annual	—up to 8
Mustard	—up to 4**
Gecklebur	—up to 6
Wild Sunflower	—up to 6
Jimsonweed	—up to 5
Woods Suppressed***	—Wood Height (inches)
Morningglory	
Entireleaf	—up to 2
Ivyleaf	—up to 2
Pitted	—up to 2
Smallflower	—up to 2
Fall	—up to 2
Common Ragweed	—up to 3

* — Requires the addition of liquid nitrogen fertilizer at the rate of 4% v/v (4 gal/100 gal) to the spray solution. Wood control of other species may also be enhanced.

** — Diameter

*** Wood suppression is a visual reduction in wood competition (reduced population, size, and/or vigor) as compared to an untreated area. Degree of control can be increased by treating woods when actively growing (not under stress).

"Pinnacle" or "Pinnacle" + "Classic" + Post Grass Herbicides



MIXING INSTRUCTIONS

~~Pinnacle" or "Pinnacle" plus "Classic" may be tank mixed with post grass herbicides such as "Assure". Under certain conditions, "Pinnacle" may be antagonistic to the grass herbicide. However, the activity of "Pinnacle" will not be affected. Refer to the grass herbicide label for specific use information and precautions.~~

"Pinnacle" "Pinnacle" should be thoroughly mixed with water in the spray tank before adding any other material (e.g. surfactant, crop oil concentrate or nitrogen fertilizer). Use a minimum of 10 gallons of water per acre for ground application and a minimum of 5 gallons per acre for aerial application. Agitation is required for uniform mixing and application.

Apply ~~"Pinnacle"~~ "Pinnacle" spray preparation within 24 hours of product mixing or product degradation may occur.

Thoroughly reagitrate before using if allowed to settle.

Application Recommendation

~~"Pinnacle" can be applied anytime after the first trifoliate soybean leaf has fully expanded up to 60 days before soybean harvest.~~

~~Application should be made by ground or air to young actively growing weeds.~~

TANK MIX APPLICATIONS

Do not tank mix "Pinnacle" with any other pesticide or spray adjuvant except as specified on this or other supplemental labeling.

Do not tank mix "Pinnacle" with organophosphate insecticides, or apply "Pinnacle" within 14 before or after and application of an organophosphate insecticide as severe crop injury may occur.

"PINNACLE" plus CLASSIC® HERBICIDE

"Pinnacle" can be tank-mixed with Du Pont's "Classic" Herbicide to provide control of the weeds listed below. The rates for this tank mix are 1/4 ounce of "Pinnacle" plus 1/4 ounce of "Classic" per acre.

Applications of "Pinnacle" plus "Classic" must include the addition of a nonionic surfactant at a rate (concentration) of 0.125% - 0.25% v/v (1 - 2 pints per 100 gallons of spray solution). USE OF THE HIGHER RATE OF NONIONIC SURFACTANT, PARTICULARLY UNDER HOT AND HUMID CONDITIONS, MAY INCREASE TEMPORARY CROP INJURY. Use only EPA approved surfactants authorized for use on food crops. DO NOT USE "DASH."

Under dry conditions or during cool weather a crop oil concentrate at the rate (concentration) of 0.5% v/v (4 pints per 100 gallons of spray solution) may be used to enhance weed control. Use a petroleum based crop oil concentrate with at least 15% emulsifiers/surfactant. THE USE OF CROP OIL CONCENTRATE MAY INCREASE TEMPORARY CROP INJURY.

The use of "Classic" at 1/4 ounce per acre is not limited by soil pH. However, the crop rotation intervals appearing at the end of this section must be adhered to when using "Classic".

Use of the "Pinnacle" plus "Classic" tank mix is not permitted in the state of North Dakota or that area of Minnesota north and west of highways MN 27 and US 71.

When applied as directed, "Pinnacle" plus "Classic", at a rate of 1/4 ounce plus 1/4 ounce per acre, will provide CONTROL of the following weeds:

Size Range / Height (inches)

<u>Velvetleaf</u>	<u>2 to 8</u>
<u>Pigweed species</u>	<u>2 to 12</u>
<u>Lambsquarters</u>	<u>2 to 4</u>
<u>Annual Smartweeds</u>	<u>2 to 8</u>
<u>Wild Mustard</u>	<u>up to 4"</u>
<u>Cocklebur</u>	<u>2 to 4</u>
<u>Wild Sunflower</u>	<u>2 to 8</u>
<u>Jimsonweed</u>	<u>2 to 5</u>

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When applied as directed, "Pinnacle" plus "Classic", at a rate of 1/4 ounce plus 1/4 ounce per acre, will provide SUPPRESSION*** of the following weeds:

5 | Size Range / Height (inches)

Morningglory species

<u>Entireleaf</u>	<u>1 to 2</u>
<u>Wyeleaf</u>	<u>1 to 2</u>
<u>Pitted</u>	<u>1 to 2</u>
<u>Smallflower</u>	<u>1 to 2</u>
<u>Tall</u>	<u>1 to 2</u>
<u>Common Ragweed</u>	<u>1 to 3</u>

15 | : Requires the addition of ammonium nitrogen fertilizer (see SPRAY ADDITIVES section of this label).

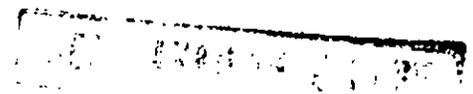
| ** Diameter

20 | *** Weed suppression is a visual reduction in weed competition (reduced population, size, and/or vigor) as compared to an untreated area. Degree of control can be increased by treating weeds when actively growing (not under stress).

25 | Crop Rotation: When using "Classic" in a tank mix with "Pinnacle" the following crop rotation intervals must be observed:

Rotational Crop Guidelines
Rotational Crop Guidelines for "Pinnacle" Plus "Classic" for "Pinnacle" Plus "Classic" Tank Mixes

Crop	Rotational Interval In Months	
Soybeans	Anytime	
Cereal Grains	3	
Ryegrass	3	
Corn <u>Field Corn*</u>	9	
Cotton		9
Alfalfa		9
Clover		9
Dry Beans	9	
Sorghum	9	
Peanut		9-6
Rice	9	
Tobacco (transplant)		9
Tomato (transplant)		9



45 | All other crops require a successful field bioassay. Suggested interval before initiating bioassay is 9 months. The season before planting any crop not listed above, a successful field bioassay must be completed. The field bioassay will detect small quantities of ~~"Classic"~~ "Classic" which can remain in the soil and injure rotational crops. A successful field bioassay means growing to maturity a test strip of crop(s) intended for production the following year. The test strip should cross the whole field including knolls and low areas.

50 | * When using "Classic" Herbicide, the term "FIELD CORN" is defined to include only that corn grown for grain

or silage, popcorn, and seed corn relative to the Rotational Crop Guidelines section of this label.

5
| "PINNACLE" or "PINNACLE" + "CLASSIC" plus POST GRASS HERBICIDES

10
| ~~Pinnacle~~ or ~~Pinnacle~~ plus ~~Classic~~ "Pinnacle" or "Pinnacle" + "Classic" may be tank-mixed with a post grass herbicide herbicide such as "Assure", "Assure". Under certain conditions, "Pinnacle" "Pinnacle" or "Pinnacle" plus "Classic" will not be affected. Refer to the grass herbicide label for specific use information and precautions.

15
| ~~Do not allow spray from any tank mix of either ground or aerial equipment to drift onto adjacent crops or land, as injury to other plants may occur. Do everything possible to reduce spray drift.~~

20
| ~~Crop Rotation~~

20
| ~~"PINNACLE"~~

20
| ~~Any crop may be planted 45 days after the application of "Pinnacle".~~

25
| ~~"PINNACLE" PLUS "CLASSIC"~~

30
| When tank mixing "Pinnacle" plus a post grass herbicide or "Pinnacle" + "Classic" plus a post grass herbicide the addition of a nonionic surfactant at a rate (concentration) of 0.125% to 0.25% (1 - 2 pints per 100 gallons of spray solution) is required. USE OF THE HIGHER RATE OF NONIONIC SURFACTANT, PARTICULARLY UNDER HOT HUMID CONDITIONS, MAY INCREASE TEMPORARY CROP INJURY. Ammonium nitrogen fertilizer may also be added if required for weed control. DO NOT ADD "DASH" OR CROP OIL CONCENTRATE WHEN TANK MIXING WITH POST GRASS HERBICIDES AS INJURY MAY OCCUR.

35
| NOTE: Do not tank mix "Pinnacle" or "Pinnacle" + "Classic" with Poast1 or Poast Plus1.

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SPRAYER CLEANUP

40
| ~~To avoid subsequent injury to crops other than soybeans immediately after spraying and prior to spraying other crops, soybeans, thoroughly remove all traces of "Pinnacle" from clean all mixing and spray equipment immediately following applications of "Pinnacle" as follows:~~

45
| 1. ~~Drain tank, tank; thoroughly hose down the interior surfaces of the tank; then flush tank, tank, boom and hoses with clean water for a minimum of 10 minutes. 5 minutes.~~

50
| 2. ~~Fill the tank with clean water then add cleaning solution.* Flush solution through boom and hoses, then allow to sit for 15 minutes with agitation, then drain.~~

50
| 3. ~~Repeat Step 2.~~

50
| 4. ~~Nozzles and screens should be removed and cleaned separately. To remove traces of cleaning solution, rinse the tank thoroughly with clean water and flush through hoses and boom.~~

~~NOTE: To reduce the amount of water required in the above procedure, see separate Du Pont Bulletin, "Reduced Volume Cleanout Procedure for Large Sprayers."~~

2. Partially fill the tank with clean water and add one of the cleaning agents listed below. Complete filling the tank with water, then flush the cleaning solution through the boom, hoses, and nozzles. Add more water to completely fill the tank and allow to agitate/recirculate for at least 15 minutes. Again, flush the hoses, boom, and nozzles with the cleaning solution, then drain the tank.

3. Repeat Step 2.

4. Remove the nozzles and screens and clean separately in a bucket containing the cleaning agent and water.

5. Thoroughly rinse the tank with clean water for a minimum of 5 minutes, flushing the water through the hoses and boom.

~~Use~~ NOTE: Use any of the following cleaning solutions/agents. Carefully read and follow the individual cleaning agent instructions.

1. One gallon ammonia (containing 3% active) per 100 gallons of water.

~~2. Nutra-Sol[1] (carefully read and follow Nutra-Sol label directions).~~

2. Nutra-Sol2

~~3. Loveland Spray Tank Cleaner[2] (carefully read and follow Loveland Spray Tank Cleaner label directions).~~

3. Cleaner3

~~4. Tank Aid[3] (carefully read and follow Tank Aid label directions).~~

~~SPRAY DRIFT~~

4. Protank Cleaner4

5. Chem-Tank Cleaner and Neutralizer5

6. Incide-Out6

7. Tank-Aid7

SPRAY DRIFT

~~Follow these practices to minimize drift.~~

Do not allow spray from either ground or aerial equipment to drift onto adjacent crops or land, as injury to other plants may occur. When spraying adjacent to crops other than soybeans, ~~wheat, barley & corn,~~ minimize the spray drift potential. ~~This can be accomplished by:~~ Follow these practices to minimize drift. spray drift.

o Stop spraying if wind speed becomes excessive. Spray drift can occur at wind speeds less than 10 ~~MPH.~~ MPH. Do not spray if adjacent sensitive crops are downwind. DO NOT SPRAY IF WINDS ARE GUSTY.

o High temperatures, drought, and low relative humidity increase the possibility of spray drift. EXTREME

CAUTION MUST BE USED WHEN THESE CONDITIONS ARE PRESENT AND SENSITIVE CROPS OR PLANTS ARE NEARBY, REGARDLESS OF WIND SPEED.

- 5 o Do not apply when a temperature inversion exists. An inversion is characterized by low air movement and an increase in air temperature with an increase in altitude. In humid regions, a fog or mist may form. An inversion may be detected by producing a smoke column and checking for a layering effect. Smoke-producing devices on aircraft are recommended. If not sure whether inversion conditions are present, consult with local weather services before making an application.
- 10 o Drift from aerial or ground equipment may be further reduced by:
 1. Using ~~large drop droplet~~ size sprays to minimize drift. **DO NOT USE HOLLOW-CONE NOZZLES ON GROUND EQUIPMENT.** Do not use nozzles that produce very small droplets, such as airblast-type nozzles. Nozzles should be oriented at an angle between straight down and straight back for ground applications. For aerial applications orient nozzles straight back along the windstream. If using flood-type nozzles on aircraft, orient them so spray is produced in direction of the airstream.
 - 15 2. Increasing volume of spray mix per acre (for example, 10 GPA by air, ~~20~~ 25 GPA by ground) by using higher flow rate nozzles.
 - 20 3. Reducing pressure (PSI). ~~Use flat fan nozzles at 25-40 psi or hollow cone nozzles at 40-60 psi. Do not use less than 20 psi nor more than 60 psi. (See "Precautions" on ND).~~ Do not exceed 60 psi when applying "Pinnacle". (Vehicle speed must also be reduced to maintain spray mix volume per acre.) Consult manufacturer's catalogs for details on correct calibration.
 - 25 4. Apply as close to target plants as possible while still maintaining a good spray pattern.
- 30 ~~Do not graze or feed forage, hay or straw from treated areas to livestock.~~
~~Do not tank mix "Pinnacle" or apply "Pinnacle" within 14 days of application(s) of organophosphate insecticides.~~

STORAGE AND DISPOSAL

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35 STORAGE: Store product in original container only, away from other pesticides, fertilizer, food or feed.

PRODUCT DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

40 CONTAINER DISPOSAL: Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities by burning. If burned, stay out of smoke.

45 NOTICE TO BUYER: Purchase of this material does not confer any rights under patent(s) of countries outside of the United States.

NOTICE OF WARRANTY

50 Du Pont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with 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

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FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESSED OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

- 1 Registered Trademark of BASF AG
- 5 | ~~1~~ 2 Sold by Thomas G. Kilfoil, San Bruno, CA.
- | ~~2~~ 3 Registered trademark of Loveland Industries, Inc.
- | 4 Manufactured for Cenex/Land 'O Lakes Agronomy Co.
- | 5 Manufactured by Farmbelt Chemicals, Inc.
- | 6 Trademark of Precision Laboratories, Inc.
- 10 | ~~3~~ 7 Manufactured for Cornbelt Chemical Company.

| ~~AG 3263-8049/8119-4/28/89~~

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