



DuPont™ Harmony® GT XP

HERBICIDE



LICENSED

PERIOD 2014-2016 LIC. NO. 9200.145

Dry flowable

GROUP 2 HERBICIDE

Active Ingredient

Thifensulfuron methyl

Methyl 3-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]-2-thiophenecarboxylate 75%

Other Ingredients

25%

TOTAL 100%

EPA Reg. No. 352-446

KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

FIRST AID

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

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

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Caution! Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves made out of any waterproof material.
- Shoes plus socks.

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

USER SAFETY RECOMMENDATIONS

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

Refer to accompanying labeling for additional precautions and complete directions for use.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Notice to Buyer: Purchase of this material does not confer any rights under patents of countries outside of the United States.

**Net 30 lb
Refillable Container
EPA Est. 352-IL-001**

PLACE
DIRECTIONS
FOR
USE
FOLDER
HERE

E. I. du Pont de Nemours and Company, 1007 Market Street, Wilmington, DE 19898 U.S.A.

A01729614

Made in U.S.A.



DuPont Harmony® GT XP herbicide

GROUP 2 HERBICIDE

Directions for Use
A01729133 (SL-1819 052314 05-29-14)

For Use on Wheat, Barley, Oat, Triticale, Fallow, Corn, Soybeans and as a Pre-Plant or Post-Harvest Herbicide

Active Ingredient Thiensulfuron-methyl **By Weight**
75%

Other Ingredients 25%
TOTAL 100%

EPA Reg. No. 352-446

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First Aid

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Caution! Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves made out of any waterproof material.
- Shoes plus socks.

USER SAFETY RECOMMENDATIONS ENVIRONMENTAL HAZARDS

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

PESTICIDE HANDLING

- Calibrate sprayers only with clean water away from the well site.
- Make scheduled checks of spray equipment.
- Assure accurate measurement of pesticides by all operation employees.
- Mix only enough product for the job at hand.
- Avoid over-filling of spray tank.
- Do not discharge excess material on the soil at a single spot in the field/grove or mixing/loading station.
- Dilute and agitate excess solution and apply at labeled rates/uses.
- Avoid storage of pesticides near well sites.
- When multiple rinsing of the pesticide container, be sure to add the rinsate to the spray mix.

PRODUCT INFORMATION

DuPont™ HARMONY® GT XP herbicide may be used for selective postemergence control of certain broadleaf weeds in wheat (including durum), barley, oat, triticale, post-harvest burndown, pre-plant burndown, fallow, corn and soybeans. HARMONY® GT XP is a dry flowable granule to be mixed in water or other liquid carrier and applied as a uniform broadcast spray. It is noncorrosive, nonflammable, nonvolatile and does not freeze.

RESTRICTIONS

Injury to or loss of adjacent sensitive crops, desirable trees or vegetation may result from failure to observe the following:

- Do not apply, 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 herbicide may be washed or moved into contact with them.
- Do not use on lawns, walks, driveways, tennis courts, or similar areas.
- Do not allow sprays to drift to desirable plants.
- Do not apply to wheat, barley, oats or triticale crops underseeded with another crop.
- Do not apply this product through any type of irrigation system.

PRECAUTIONS

Injury to or loss of adjacent sensitive crops, desirable trees or vegetation may result from failure to observe the following:

- Take all necessary precautions to avoid all direct or indirect contact (such as spray drift) with non-target plants or areas.

Carefully observe all sprayer cleanup instructions both prior to and after using this product, as spray tank residue may damage crops other than wheat, barley, oats, triticale, corn or soybeans.

For ground applications applied when dry, dusty field conditions exist, control of weeds in wheel track areas may be reduced. Soybeans, corn, and cereal varieties may differ in their response to various herbicides. DuPont recommends that you first consult your state experiment station, university, or extension agent as to sensitivity to any herbicide. If no information is available, limit the initial use of HARMONY® GT XP herbicide to a small area.

BIOLOGICAL ACTIVITY AND ENVIRONMENTAL CONDITIONS

Best results are obtained when HARMONY® GT XP is applied to young, actively growing weeds. The use rate will depend on weed spectrum and size of weed at time of application. The degree of control and duration of effect are dependent on rate used, sensitivity and size of target weed and environmental conditions at the time of and following application.

HARMONY® GT XP stops growth of susceptible weeds rapidly. However, typical symptoms of dying weeds (discoloration) may not be noticeable for 1-3 weeks after application (2-5 weeks for wild garlic) depending on the environmental conditions and weed susceptibility. Warm, moist conditions following treatment promote the activity of HARMONY® GT XP, while cold, dry conditions delay the activity. Weeds hardened-off by cold weather or drought stress will be less susceptible.

A vigorous growing crop will aid weed control by shading and providing competition for weeds. However, a dense crop canopy at time of application can intercept spray and result in reduced weed control. Weeds may not be adequately controlled in areas of thin crop stand or seeding spikes.

DuPont™ HARMONY® GT XP may injure crops that are stressed from adverse environmental conditions (such as extreme temperatures or moisture), abnormal soil conditions, or cultural practices. In addition, different varieties of the crop may have differing levels of sensitivity to treatment with HARMONY® GT XP under otherwise normal conditions. Treatment of sensitive crop varieties may injure crops.

Weed control may be reduced if rainfall or snowfall occurs soon after application. Several hours of dry weather are needed to allow HARMONY® GT XP to be sufficiently absorbed by weed foliage.

To reduce the potential of crop injury in cereals, tank mix HARMONY® GT XP with 2,4-D (ester formulations perform best—see the "TANK MIXTURES" section of this label) and apply after the crop is in the tillering stage of growth.

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls.
- Chemical-resistant gloves made out of any waterproof material.
- Shoes plus socks.

HARMONY® GT XP herbicide must be used only in accordance with instructions on this label or in separately published DuPont instructions. DuPont will not be responsible for losses or damages resulting from the use of this product in any manner not specified by DuPont.

HARMONY® GT XP is for use on wheat, barley, oat, triticale, fallow, corn, soybeans and as a pre-plant and/or post-harvest burndown herbicide in most states. Check with your state extension service or Department of Agriculture before use, to be certain HARMONY® GT XP is registered in your state.

CEREALS, FALLOW AND PREPLANT BURNDOWN WEEDS CONTROLLED

Annual knawel	Corn spurry	Miners lettuce	Stinking mayweed
Annual sowthistle	Cress (mouse-ear)	Mooseear chickweed	(Dogfennel)
Black mustard (such as "Banvel"/ "Clarity")	Curly dock	Pennsylvania smartweed	Swinecress
Bushy wallflower	Falsed chamomile	Prostrate knotweed	Tarweed fiddleneck
†Tritacle mustard	Field pennycress	Redmaids	Tumble/Jim Hill mustard
Carolina geranium	Flaxweed	Redroot pigweed	Volunteer lentils
Coast fiddleneck	Green smartweed	Russian thistle*	Volunteer peas
Common buckwheat	Kochia †	Scoutless	Volunteer sunflower*
Common chickweed*	Ladysthumb	†chamomile/mayweed	Wild buckwheat*
Common groundsel	London rocket	Shepherdspurse	Wild chamomile
Common lambsquarters	Mallow (little)	Smallflower buttercup	Wild garlic*
Corn chamomile	Marshelder		Wild mustard

PARTIAL CONTROL **			
Common cocklebur	Cutleaf eveningprimrose	Mallow (common)	Tansymustard*
Common sunflower	Henbit	Prickly lettuce*	Wild radish*

* See SPECIFIC WEED PROBLEMS in the Cereals section below for more information.

** Partial control: A visual reduction of weed population as well as a significant loss of vigor for individual weed plants. For better results, use 0.5 or 0.6 ounce DuPont™ HARMONY® GT XP per acre and include a tank mix partner such as 2,4-D, MCPA, bromoxynil (such as "Buctril", "Bison", "Bronate" or "Bronate Advanced"), or dicamba (such as "Banvel"/ "Clarity"), refer to the "TANK MIXTURES" section of this label.

† Naturally occurring resistant biotypes of Kochia, prickly lettuce and Russian thistle are known to occur. See the "TANK MIXTURES" and "SPECIFIC WEED PROBLEMS" sections of this label for additional details.

FALLOW APPLICATION TIMING

Apply HARMONY® GT XP in the spring, summer or fall when the majority of weeds have emerged and are actively growing. (See the "CROP ROTATION" section of this label for additional information.)

USE RATES

HARMONY® GT XP may be used as a fallow treatment for burndown of emerged weeds, in combination with other suitable registered fallow herbicides (See the "TANK MIXTURES" section of this label for additional information). Apply HARMONY® GT XP at 0.3 to 0.6 ounce per acre to fallow for control or partial control of the weeds listed above. Sequential treatments of HARMONY® GT XP may be made provided the total amount of HARMONY® GT XP applied does not exceed 1.0 ounce per acre.

TANK MIXTURES IN FALLOW PREPLANT BURNDOWN APPLICATIONS

HARMONY® GT XP, when used as a fallow treatment, should be tank mixed with other herbicides that are registered for use in fallow, including glyphosate (such as Roundup), Landmaster II, Fallow Master, RT Master, glyphosate plus 2,4-D (ester formulations work best), glyphosate plus dicamba (such as "Banvel"/ "Clarity"), 2,4-D (ester formulations work best), or dicamba (such as "Banvel"/ "Clarity") alone.

PREPLANT BURNDOWN APPLICATION TIMING

For burndown of emerged weeds, broadcast applications of HARMONY® GT XP may be applied before planting or shortly after planting, but prior to emergence of wheat (including durum), barley, oat, triticale, soybeans and field corn. Apply HARMONY® GT XP as a burndown treatment up to the day of planting grain sorghum and rice. Apply HARMONY® GT XP as a burndown treatment at least 7 days prior to planting cotton. Apply HARMONY® GT XP as a burndown treatment before planting any other crop (such as sugarbeets or canola) at least 45 days prior to planting.

Cotton Precaution: Seedling disease, nematodes, cold weather, deep planting (more than 2"), excessive moisture, high salt concentration, and/or drought may weaken cotton seedlings and increase the possibility of crop injury. Cotton resumes normal growth once favorable growing conditions return.

USE RATES

Apply HARMONY® GT XP at 0.3 to 0.6 ounce per acre for control or partial control of the weeds listed above, except when planting to cotton where HARMONY® GT XP can be applied at 0.2 to 0.33 ounce per acre. Use the 0.6 ounce per acre rate when weed infestation is heavy and predominantly consists of those weeds listed under the "WEEDS PARTIALLY CONTROLLED" section of this label, or when application timing and environmental conditions are marginal.

HARMONY® GT XP should be applied in combination with other suitable registered preplant burndown herbicides (See the "TANK MIXTURES" section of this label for additional information).

TANK MIXTURES IN PRE-PLANT BURNDOWN APPLICATIONS

HARMONY® GT XP may be used as a pre-plant burndown treatment alone or tank mixed with other herbicides that are registered for use as a pre-plant burndown product, including glyphosate (such as Roundup), Landmaster II, Fallow Master, RT Master, glyphosate plus dicamba (such as "Banvel"/ "Clarity") or dicamba (such as "Banvel"/ "Clarity").

Pre-plant or at-planting burndown in cotton, field corn, rice, grain sorghum, and soybeans

HARMONY® GT XP herbicide may be used as part of a pre-plant or at-planting burndown treatment, in combination with other suitable registered herbicides. Read and follow all manufacturers' label directions for the companion herbicide. If those directions conflict with this label, do not tank mix the herbicide with DuPont™ HARMONY® GT XP.

In fields to be planted to cotton, apply HARMONY® GT XP at 0.2 to 0.33 ounce per acre. Allow at least 7 days between application and planting of cotton. In fields to be planted to field corn, grain sorghum, rice or soybeans, apply HARMONY® GT XP at 0.3 to 0.6 ounce per acre for control or partial control of the weeds listed on the EPA registered label. Include a nonionic surfactant, petroleum based crop oil concentrate, or vegetable-seed oil based product (methylated seed oils are considered a vegetable seed-based oil).

- If another herbicide is tank mixed with HARMONY® GT XP to increase the broadleaf weed spectrum, select adjuvants based on the adjuvant limitations of the companion herbicide.

SPRAY ADJUVANTS

Nonionic Surfactant (NIS)

Apply at a rate (concentration) of 0.25-0.5% v/v (1-2 qt per 100 gal spray solution). Use the higher rate in hot and dry conditions to enhance control.

Crop Oil Concentrate

Under dry conditions or during cool weather, a petroleum based crop oil concentrate, or vegetable-seed oil-based product may be used in place of a nonionic surfactant at 1-2 gallon/100 gal of spray solution (1-2% v/v) to enhance weed control. Use a petroleum-based crop oil concentrate with at least 14% emulsifiers/ surfactant and 90% oil.

Ammonium Nitrogen Fertilizer

An ammonium nitrogen fertilizer can be added to a surfactant or a crop oil concentrate to enhance control. Alternatively, a high quality, sprayable grade of ammonium sulfate (21-0-0) may be used.

COTTON PRECAUTION RESTRICTIONS

Seedling disease, nematodes, cold weather, deep planting (more than 2"), excessive moisture, high salt concentration, and/or drought may weaken cotton seedlings and increase the possibility of crop injury. Cotton resumes normal growth once favorable growing conditions return.

RESTRICTIONS

- DO NOT apply by air in the State of New York.
- DO NOT apply after planting sorghum or rice.
- DO NOT apply later than 7 days before planting cotton.
- DO NOT allow livestock to graze on, or feed forage, hay or straw from treated soybean fields.
- DO NOT make more than one pre-plant or at-planting application of HARMONY® GT XP to field corn, rice, sorghum, or soybeans per growing season.
- DO NOT apply more than 0.6 oz. of HARMONY® GT XP per acre to rice or grain sorghum pre-plant or at-planting.
- DO NOT apply more than 0.6 oz. HARMONY® GT XP per acre per growing season to field corn or soybeans. Application(s) to these crops can be made pre-plant/at-planting, and/or postemergence.

CEREALS APPLICATION TIMING

Wheat (including Durum), Barley, Triticale and Winter Oat
Make applications after the crop is in the 2-leaf stage, but before the flag leaf is visible.

Spring Oat
Make applications after the crop is in the 3-leaf stage, but before jointing. Do not use on "Ogle", "Porter" or "Premier" varieties since crop injury can occur.

USE RATES

If predominant weed(s) in field is (are) one of those listed in WEEDS PARTIALLY CONTROLLED table above, always include a tank mix partner (refer to TANK MIXTURES).

Wheat, Barley and Triticale

Apply 0.5 ounce HARMONY® GT XP herbicide per acre to wheat (including durum), barley or triticale for control or partial control of the weeds listed above. Use 0.6 ounce HARMONY® GT XP per acre when weed infestation is heavy and predominantly consists of those weeds listed under partial control, or when application timing and environmental conditions are marginal (refer to the "APPLICATION TIMING" and "PRODUCT INFORMATION" sections of this label).

Use 0.3 ounce DuPont™ HARMONY® GT XP per acre when weed infestation is light and predominately consists of those weeds listed under weeds controlled, and when optimum application conditions occur.

Sequential treatments of DuPont™ HARMONY® GT XP may be made provided the total amount of HARMONY® GT XP applied to the crop does not exceed 1.0 ounce per acre.

Oat (Spring and Winter)

Apply 0.3 to 0.4 ounce HARMONY® GT XP per acre for control of the weeds listed in WEEDS CONTROLLED table.

If predominant weed(s) in field is(are) one of those listed in WEEDS PARTIALLY CONTROLLED table above, always include a tank mix partner (refer to TANK MIXTURES). Do not make more than one application of HARMONY® GT XP per crop season on oat.

SPECIFIC WEED PROBLEMS

Common chickweed and wild buckwheat: For best results, apply a minimum of 0.5 ounce HARMONY® GT XP per acre plus surfactant when all or the majority of weeds have germinated and are past the cotyledon stage. Weeds should be less than 3 inches tall or across at the time of HARMONY® GT XP application.

Kochia: Naturally occurring biotypes resistant to HARMONY® GT XP are known to occur. For best results, use HARMONY® GT XP in a tank mix with Starane, Starane + Salvo, Starane + Sword, dicamba (such as "Banvel"/ "Clarity") and 2,4-D or MCPA (ester or amine), or bromoxynil containing products (such as "Buctril", "Bison", "Bronate", "Bronate Advanced" or "WideMatch").

HARMONY® GT XP should be applied in the spring when kochia are less than 2" tall and are actively growing (refer to the "TANK MIXTURES" section of this label for additional details on rates and restrictions).

Tansymustard: For best results, use 0.5 to 0.6 ounce HARMONY® GT XP per acre plus 2,4-D or MCPA. Refer to the TANK MIXTURES section of this label for more information.

Russian thistle, Prickly lettuce: Naturally occurring biotypes resistant to HARMONY® GT XP of these weeds are known to occur. For best results, use HARMONY® GT XP in a tank mix with dicamba (such as "Banvel"/ "Clarity") and 2,4-D or MCPA (ester or amine), or bromoxynil containing product (such as "Buctril", "Bison", "Bronate", "Bronate Advanced" or "Rhino") and 2,4-D (3/4 - 1 pint "Buctril" + 1/4 - 3/8 lb active 2,4-D ester).

HARMONY® GT XP should be applied in the spring when Russian thistle, and prickly lettuce are less than 2" tall or 2" across and are actively growing (refer to the "TANK MIXTURES" section of this label for additional details on rates and restrictions).

Wild garlic: For best results, apply 0.5 to 0.6 ounce HARMONY® GT XP per acre plus surfactant when wild garlic plants are less than 12 inches tall with 2 to 4 inches of new growth. For severe infestations, use the 0.6 ounce per acre rate of HARMONY® GT XP. Control may be reduced when plants are hardened-off by cold weather and/or drought stress. Control is enhanced when applications are made during warm temperatures to actively growing wild garlic plants. Typical symptoms of dying wild garlic plants (discoloration and collapse) may not be noticeable for 2-5 weeks.

Thorough coverage of all garlic plants is essential.

Tank mixes of HARMONY® GT XP plus metribuzin may result in reduced control of wild garlic.

Wild radish: For best results, apply 0.5 to 0.6 ounce HARMONY® GT XP per acre plus surfactant either in the fall or spring to wild radish rosettes less than 6 inches in diameter. Applications made later than 30 days after weed emergence will result in partial control. Fall applications should be made prior to hardening-off of plants.

SU IIMI Tolerant Volunteer Sunflowers: Control may not be adequate because varieties resistant to SU and IIMI products (like DuPont™ EXPRESS® Beyond™) are under development. For best results, use HARMONY® GT XP in a tank mix with Starane, Starane + Salvo, Starane + Sword, dicamba (such as "Banvel"/ "Clarity") and 2,4-D or MCPA (ester or amine), or bromoxynil containing products (such as "Buctril", "Bison", "Bronate" or "Bronate Advanced").

TANK MIXTURES

Read and follow all manufacturers' label instructions for any companion herbicides, fungicides, and/or insecticides. If those instructions conflict with this label (including tank mix that product with HARMONY® GT XP), Read and follow all label instructions on timing, precautions, and warnings for any companion products before using these tank mixtures. Follow the most restrictive labeling.

With 2,4-D (amine or ester) or MCPA (amine or ester)

HARMONY® GT XP may be tank mixed with the amine and ester formulations 2,4-D and MCPA herbicides for use on wheat, barley, oat, triticale or fallow. For best results in the Red River Valley and adjacent areas of North Dakota and Minnesota, add the ester formulations of 2,4-D or MCPA herbicides to the tank at 3/8 lb active ingredient (such as 3/4 pint of a 4 lb/gal product, 1/2 pint of a 6 lb/gal product). No additional surfactant is needed with this mixture.

For best results, in other areas, add the ester formulations of 2,4-D or MCPA herbicides to the tank at 1/4 to 3/8 lb active ingredient (such as 1/2-3/4 pint of a 4 lb/gal product, 1/2-3/4 pint of a 6 lb/gal product). No additional surfactant may be added to the mixture at 1/2 to 1 quart per 100 gal of spray solution (0.125 to 0.25% v/v); however, adding nonionic surfactant may increase the potential for crop injury, especially at the higher phenoxo rates. Higher rates of 2,4-D or MCPA may be used, but do not exceed the highest rate allowed by those respective labels.

With dicamba (such as "Banvel"/ "Clarity")

DuPont™ HARMONY® GT XP may be tank mixed with 1/16 to 1/8 lb active ingredient dicamba (such as 2-4 fluid ounces "Banvel" or 2-4 fluid ounces "Clarity"). Use higher rates when weed infestation is heavy. Nonionic surfactant may be added to the mixture at 1/2 to 1 quart per 100 gal of spray solution (0.125 to 0.25% v/v); however, adding nonionic surfactant may increase the potential for crop injury. Refer to the specific dicamba label for application timing and restrictions. Tank mixes of HARMONY® GT XP plus dicamba may result in reduced control of some broadleaf weeds.

With 2,4-D (amine or ester) and "Banvel"/ "Clarity"

HARMONY® GT XP may be applied in a 3-way tank mix with formulations of dicamba and 2,4-D or MCPA. Make application of HARMONY® GT XP plus 1/16 to 1/8 lb active ingredient dicamba (such as 2-4 fluid ounces "Banvel" or 2-4 fluid ounces "Clarity") plus 1/4-3/8 lb active ingredient 2,4-D or MCPA ester or amine per acre. Use higher rates when weed infestation is heavy. Nonionic surfactant may be added to the mixture at 1/2 to 1 quart per 100 gal of spray solution (0.125 to 0.25% v/v); however, adding nonionic surfactant may increase the potential for crop injury. Apply this three-way combination to winter wheat and winter oat after the crop is tillering and prior to jointing (first node).

In Spring Wheat (including Durum) and Spring Oat, apply after the crop is tillering and before it exceeds the 5-leaf stage.

In Spring Barley, apply after the crop is tillering and before it exceeds the 4-leaf stage.

With Bromoxynil containing products (such as "Buctril", "Bison", "Bronate", "Bronate Advanced" or "Rhino")

HARMONY® GT XP may be tank mixed with bromoxynil containing herbicides registered for use on wheat, barley or triticale. For best results, add bromoxynil containing herbicides to the tank at 3/4 - 3/8 lb active ingredient per acre (such as "Bronate" or "Bison" at 3/4 - 1 1/2 pt per acre). Note that tank mixes of HARMONY® GT XP plus bromoxynil may result in reduced control of Canada thistle.

With "Starane", "Starane + Salvo", "Starane + Sword"

For improved control of Kochia (2-4" tall) HARMONY® GT XP may be tank mixed with 1/3 to 1 1/3 pints per acre of Starane, 2/3 to 2 2/3 pints per acre of Starane + Salvo, 3/4 to 2 3/4 pints per acre of Starane + Sword.

2,4-D and MCPA herbicides (preferably ester formulations) may be tank mixed with HARMONY® GT XP plus Starane. Consult local guidance and the "TANK MIXTURES" section of this label for additional information.

With "Maverick"

HARMONY® GT XP can be tank mixed with "Maverick" herbicide for improved control of weeds in wheat. Refer to the "Maverick" label for information regarding use restrictions, labeled crops, rotational cropping intervals, sprayer cleanup, use precautions and other information. The most restrictive provisions on either label will apply. Do not use the tank mix if any restrictions on the "Maverick" label conflict with the instructions on the DuPont herbicide label.

With "Aim"

HARMONY® GT XP can be tank mixed with "Aim" herbicide for improved control of weeds in wheat and barley. Refer to the "Aim" label for information regarding use restrictions, labeled crops, rotational cropping intervals, sprayer cleanup, use precautions and other information. The most restrictive provisions on either label will apply. Do not use the tank mix if any restrictions on the "Aim" label conflict with the instructions on the DuPont herbicide label.

With "Stinger" or "Curtail" or "Curtail M" or "WideMatch"

HARMONY® GT XP can be tank mixed with "Stinger" or "Curtail" or "Curtail M" or "WideMatch" herbicide for improved control of weeds in wheat and barley. Refer to the "Stinger" or "Curtail" or "Curtail M" or "WideMatch" labels for information regarding use restrictions, labeled crops, rotational cropping intervals, sprayer cleanup, use precautions and other information. The most restrictive provisions on either label will apply. Do not use the tank mix if any restrictions on the "Stinger" or "Curtail" or "Curtail M" or "WideMatch" labels conflict with the instructions on the DuPont herbicide label.

With DuPont™ EXPRESS® or EXPRESS® XP Herbicide

HARMONY® GT XP may be tank mixed with EXPRESS® or EXPRESS® XP based on local guidance.

With DuPont™ ALLY® or ALLY® XP Herbicide

HARMONY® GT XP may be tank mixed with ALLY® or ALLY® XP based on local guidance.

With "Assert" Herbicide or "Avenge" Herbicide

HARMONY® GT XP can be tank mixed with "Avenge" or "Assert". When tank mixing HARMONY® GT XP with "Assert", always include another broadleaf weed herbicide with a different mode of action (such as 2,4-D ester, MCPA ester, or bromoxynil (such as "Buctril", "Bison", "Bronate" or "Bronate Advanced"). Applications of HARMONY® GT XP plus "Assert" may cause temporary crop discoloration, stunting, or injury when heavy rainfall occurs shortly after application.

With "Discover NG"

DuPont™ HARMONY® GT XP can be tank mixed with "Discover NG" herbicide for improved control of weeds in spring wheat. Refer to the "Discover NG" label for information regarding use restrictions, labeled crops, rotational cropping intervals, sprayer cleanup, use precautions and other information. The most restrictive provisions on either label will apply. Do not use the tank mix if any restrictions on the "Discover NG" label conflict with the instructions on the DuPont herbicide label.

With "Everest"

HARMONY® GT XP can be tank mixed with "Everest" herbicide for improved control of weeds in spring wheat. Refer to the "Everest" label for information regarding use restrictions, labeled crops, rotational cropping intervals, sprayer cleanup, use precautions and other information. The most restrictive provisions on either label will apply. Do not use the tank mix if any restrictions on the "Everest" label conflict with the instructions on the DuPont herbicide label.

With "Holoen"

A tankmix of "Holoen" 3EC herbicide + HARMONY® GT XP herbicide can be applied for annual ryegrass (in the Pacific Northwest only), wild oat and broadleaf weed control in wheat and spring wheat and spring barley. The "Holoen" 3EC herbicide rate should be 2/3 pints per acre with up to 0.5 ounce per acre HARMONY® GT XP herbicide in spring and winter wheat.

A three-way tankmix of "Holoen" 3EC herbicide + "Buctril" herbicide + HARMONY® GT XP herbicide can be applied for annual ryegrass (in the Pacific Northwest only), wild oat and broadleaf weed control in winter and spring wheat, and spring barley. The "Holoen" 3EC herbicide rate should be 2 2/3 pints per acre with up to 0.5 ounce per acre HARMONY® GT XP herbicide in winter wheat (up to 0.4 ounce per acre in spring wheat and spring barley). "Buctril" herbicide should be used at 1 pint per acre.

This tank mixture should only be used under good soil moisture conditions when wild oats are in the 1 to 4 leaf stage. Reduced control of foxtail is likely when tank mixing "Holoen" with HARMONY® GT XP herbicide. When foxtail is the major grass weed in the field, DO NOT tank mix "Holoen" 3EC herbicide + HARMONY® GT XP herbicide. Use sequential treatments. Be sure to follow all use directions, warnings and cautions on the EPA approved "Holoen" 3EC and "Buctril" labels.

With "Achieve"

HARMONY® GT XP can be tankmixed with "Achieve" for wild oat control. This tankmix may also include 2,4-D ester, MCPA ester, bromoxynil or bromoxynil/MCPA for greater spectrum of broadleaf control - see "Achieve" label for specific use directions and restrictions on tank mixes.

To minimize the reduction in wild oat control, use the higher rates of "Achieve" when using rates of HARMONY® GT XP greater than 0.3 ounce per acre. Note: Green foxtail, yellow foxtail, Persian darnel and other grass weeds will not be controlled by this tankmix.

Read and follow all label instructions on tank mixes, application timing, precautions, and warnings on the "Achieve" label.

With "Puma"

HARMONY® GT XP herbicide can be tankmixed with "Puma" 1EC for control of some annual grass weeds. This tankmix may also include MCPA ester, bromoxynil or bromoxynil/MCPA for greater spectrum of broadleaf control - see "Puma" 1EC label for specific use directions and restrictions on tank mixes. Read and follow all label instructions on the EPA approved "Puma" 1EC label for tank mixes, application timing, precautions, and restrictions. If those instructions conflict with this label, do not tank mix the product with HARMONY® GT XP herbicide.

With "Tiler"

HARMONY® GT XP can be tankmixed with "Tiler" for green foxtail, foxtail millets and volunteer corn control. Refer to the "Tiler" label for information regarding use restrictions, labeled crops, rotational cropping intervals, sprayer cleanup, use precautions and other information. The most restrictive provisions on either label will apply. Do not use the tank mix if any restrictions on the "Tiler" label conflict with the instructions on the DuPont herbicide label.

With "ACHIEVE" and "STARANE" herbicides for wild oat control in wheat and barley

HARMONY® GT XP can be tank mixed with "Achieve" 40 DG and "Starane" herbicides for improved control of wild oat in wheat and barley. For best results, use tank mixes with "Achieve" and "Starane" herbicides, do not use less than 0.5 ounce of "Starane" herbicide per acre. Tank mix HARMONY® GT XP with 0.62 ounce per acre (0.24 pounds active ingredient per acre) "Achieve" 40 DG for wild oat control. This tank mix should also include 0.5 pints per acre of "Starane" for a greater spectrum of broadleaf weed control.

Note: Green foxtail, yellow foxtail, Persian darnel and other grass weeds will not be controlled by this tank mix.

For postemergence applications, apply to young, actively growing weeds after crop emergence. Typically, small weeds (less than 1" in height or diameter) that are actively growing at application are most easily controlled.

Refer to the "Achieve" 40 DG, "Starane", and HARMONY® GT XP labels for information regarding use restrictions, labeled crops, rotational cropping intervals, sprayer cleanup, use precautions and other information. The most restrictive provisions on any tank mix partner label will apply. Do not use the tank mix if any restrictions on the "Achieve" or "Starane" label conflict with recommendations on the DuPont herbicide label.

With Other Grass Control Products

DuPont™ HARMONY® GT XP can be tankmixed with grass control products. Antagonism generally does not occur. However, DuPont recommends that you first consult your state experiment station, university, or extension agent, Agricultural dealer, or DuPont representative as to the potential for antagonism when using the mixture. If no information is available, limit the initial use of HARMONY® GT XP and the grass product to a small area.

With Fungicides

HARMONY® GT XP may be tank mixed or used sequentially with fungicides registered for use on listed cereal grains.

With Insecticides

HARMONY® GT XP may be tank mixed or used sequentially with insecticides registered for use on listed cereal grains.

However, under certain conditions (drought stress, cold weather, or if the crop is in the 2-4 leaf stage), tank mixes or sequential applications of HARMONY® GT XP with organophosphate insecticides (such as "Lorsban") may produce temporary crop yellowing or, in severe cases, crop injury. The potential for crop injury is greatest when wide fluctuations in day/night temperatures occur just prior to or soon after application. Test these mixtures in a small area before treating large areas.

Do not apply HARMONY® GT XP within 60 days of crop emergence where an organophosphate insecticide has been applied as an in-furrow treatment because crop injury may result.

Do not use HARMONY® GT XP plus "Malathion" because crop injury will result.

With Liquid Nitrogen Solution Fertilizer

Liquid nitrogen fertilizer solutions may be used as a carrier in place of water. Run a tank mix compatibility test before mixing HARMONY® GT XP in fertilizer solution. HARMONY® GT XP must first be slurried with water and then added to liquid nitrogen solutions (e.g., 28-0-0, 32-0-0). Ensure that the agitator is running while the HARMONY® GT XP is added. Use of this mixture may result in temporary crop yellowing and stunting.

If using low rates of liquid nitrogen fertilizer in the spray solution (less than 50% of the spray solution volume), the addition of surfactant is necessary. Add surfactant at 1/2 pint -1 quart per 100 gal of spray solution (0.06 -0.25% v/v) based on local guidance.

When using high rates of liquid nitrogen fertilizer in the spray solution, using surfactant increases the risk of crop injury. Consult your agricultural dealer, consultant, fieldman, or DuPont representative for specific instructions before adding an adjuvant to these tank mixtures.

If 2,4-D or MCPA is included with HARMONY® GT XP and the fertilizer mixture, ester formulations tend to be more compatible (See manufacturer's label). Additional surfactant may not be needed when using HARMONY® GT XP in tank mix with 2,4-D ester or MCPA ester and liquid nitrogen fertilizer solutions. Consult your agricultural dealer, consultant, field advisor, or DuPont representative for specific instructions before adding an adjuvant to these tank mixtures.

Note: In certain areas east of the Mississippi river unacceptable crop response may occur with use of straight or dilute nitrogen fertilizer carrier solutions where cold temperatures or widely fluctuating day/night temperatures exist. In these areas consult your agricultural dealer, consultant, field advisor, or DuPont representative for specific instructions before using nitrogen fertilizer carrier solutions.

LIQUID NITROGEN SOLUTIONS DO NOT USE LOW RATES OF LIQUID FERTILIZER AS A SUBSTITUTE FOR A SURFACTANT. DO NOT USE LIQUID FERTILIZER SOLUTIONS WITH A pH LESS THAN 3.0.

SOYBEANS APPLICATION TIMING (POST EMERGENCE)

HARMONY® GT XP herbicide may be applied to soybeans any time after the first trifoliolate has expanded fully. Apply no later than 60 days before harvest.

Early-season soybean injury may result from tank-mix applications with other registered herbicides. Injury may manifest itself as stunting (seen as a reduction in leaf size or internode length), yellowing leaves and/or red veins, and necrosis in the leaves and petioles. The potential for soybean injury is most pronounced with applications made during hot, humid conditions, under widely fluctuating weather or temperature conditions, or with applications to soybeans under stress.

USE RATES IN SOYBEANS

Make a single application of HARMONY® GT XP at a rate of 0.083 (1/12) ounce per acre for selective postemergence broadleaf weed control on conventional soybean varieties. HARMONY® GT XP at up to 1/3 ounce per acre may be used on soybeans designated DuPont™ STS®. Severe injury or death of soybeans will result if any soybeans not designated as STS® are treated with more than 1/12 ounce of HARMONY® GT XP. Multiple applications of HARMONY® GT XP may be applied to STS® soybeans provided no more than a total of 1/3 ounce is applied per season.

SPRAY ADJUVANTS APPLICATIONS OF DU PONT™ HARMONY® GT XP IN SOYBEANS MUST INCLUDE A NONIONIC SURFACTANT OR CROP OIL CONCENTRATE, AND AN AMMONIUM NITROGEN FERTILIZER. SEE SPRAY ADJUVANTS.

WEEDS CONTROLLED

When applied to soybeans as directed, HARMONY® GT XP will control the following weeds:

Weeds Controlled	Maximum Size (inches) at Application
Annual Smartweeds	6
Lambsquarters	

ADJUVANTS

Postemerge applications of HARMONY® GT XP tank mixed with "PURSUIT" DG must include the addition of a nonionic surfactant and ammonium nitrogen fertilizer.

- A nonionic surfactant must be included at the rate of 1 pint per 100 gallons of solution (0.125% v/v concentration). Do not use "DASH" or "SUNIT-II"
- Use a high quality liquid nitrogen fertilizer such as 28-0-0 at a rate of 4 - 8 pints per acre, or 10-34-0 at a rate of 2 - 4 pints per acre. Use the lower rate for spray volumes less than 15 gallons per acre. Alternatively, a high quality, sprayable grade of ammonium sulfate (21-0-0) may be used at a rate of 2 - 4 pounds per acre.

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 spray pressure, or spray 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 Application: For band application, use proportionately less spray mixture. To avoid crop injury, carefully calibrate the band applicator not to exceed the labeled rate. Carefully follow the manufacturer's instructions for nozzle types (flat fan nozzles preferred), nozzle orientation, distance of nozzles from the crop and weeds, spray volumes, calibration, and spray pressure.

Aerial Application: 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. Consult the respective product labels for special directions for aerial application.

ROTATIONAL CROP GUIDELINES

Soybeans, field corn, grain sorghum, rice, safflower, wheat, barley, oats, and triticale may be planted anytime after the application of HARMONY® GT XP. Cotton may be planted 7 days after application. Any other crop may be planted 45 days after the application of HARMONY® GT XP. Refer to the "PURSUIT" DG labels for crop rotation and pre-planting intervals. Do not plant any crop within the maximum time interval listed on the respective labels prior to planting a rotational crop. The most restrictive time interval shall apply.

RESTRICTIONS AND LIMITATIONS

Refer to the "PURSUIT" DG label for additional use directions, use restrictions, and precautions. The most restrictive provision on either the "Pursuit" DG label, or this HARMONY® GT XP label will apply.

- Sequential applications of HARMONY® GT XP following postemerge "PURSUIT" DG treatments are not recommended because:
 - Crop injury from sequential postemerge applications of HARMONY® GT XP following "PURSUIT" DG is greater than from the use of either product applied alone. The first application interferes with the soybean plant's ability to metabolize the second herbicide treatment. Sequential applications may result in severe crop injury.
 - Any weeds not controlled by the "PURSUIT" DG application will be stressed at the time of the sequential treatment. This will result in unsatisfactory weed control, particularly for stress sensitive weeds such as lambsquarters.
 - Weeds that have recovered from a "PURSUIT" DG application will typically be larger than labeled size by the time soybeans may be safely treated with a second HARMONY® GT XP application. This will result in unsatisfactory weed control.

HARMONY® GT XP plus "PURSUIT" DG treatments may be tank mixed with DuPont™ ASSURE® II Herbicide to control volunteer corn and shattercane. "PURSUIT" DG will reduce the activity of ASSURE® II on all other grasses. For broad spectrum grass control, apply ASSURE® II 1 day before, or 7 days after "PURSUIT" DG treatments. Refer to the ASSURE® II label for application rates, weed sizes, and restrictions.

Applications within 1 hour of rain may reduce weed control. Cultivation before, during, or within 7 days after the application may put the weeds under stress by pruning roots. Root pruning may reduce weed control. The best time to cultivate is approximately 14 days after application. Do not allow spray from either ground or aerial equipment to drift onto adjacent crops or land, as injury to other plants may occur. Do not tank mix with organophosphate insecticides, or apply within 14 days before or after an application of an organophosphate insecticide as severe crop injury may occur.

To avoid subsequent injury to crops other than soybeans, thoroughly clean all mixing and spray equipment immediately following application. Refer to the respective labels for cleanout procedures. Follow the more restrictive cleanout directions.

Do not graze animals on green forage or stubble. Do not utilize hay or straw for animal feed or bedding.

With reduced rates of "PURSUIT" DG herbicide or with DuPont™ CLASSIC® herbicide plus reduced rates of "PURSUIT" DG herbicide for control of nightshade in soybeans in the States of Indiana, Iowa, Michigan, Minnesota, Ohio, Pennsylvania, South Dakota and Wisconsin

HARMONY® GT XP at 1/12 oz/ac, or CLASSIC® herbicide plus HARMONY® GT XP at 1/12 oz/ac may be tank mixed with 0.72 oz/ac "PURSUIT" DG for postemergence control of weeds controlled on the CLASSIC® and/or HARMONY® GT XP labels, and for the control of eastern black nightshade less than 2 inches tall. Refer to the CLASSIC® and HARMONY® GT XP labels for other weeds controlled and maximum heights. Best results are obtained when either HARMONY® GT XP or CLASSIC® plus HARMONY® GT XP are tank mixed with "PURSUIT" DG and applied to weeds that are young (after the first true leaves have expanded, but before they exceed the size indicated on this label) and actively growing. This is generally 21-30 days after planting of soybeans.

Applications made to weeds that are in the cotyledon stage, or to weeds larger than the sizes indicated, or to weeds under stress (weather, herbicide, or other) may result in unsatisfactory weed control.

This program is recommended for the control of broadleaf weeds only. Other measures should be used to control grassy weeds.

ADJUVANTS: Postemerge applications of either HARMONY® GT XP or CLASSIC® plus HARMONY® GT XP tank mixed with "PURSUIT" DG must include the addition of a nonionic surfactant and ammonium nitrogen fertilizer.

- Use a nonionic surfactant at the rate of 1 pint per 100 gal of solution (0.125% v/v). Under dry, cool (generally 70° F or less) conditions the rate of nonionic surfactant may be increased to 2 pints per 100 gal. of solution (0.25% v/v).
- Use a high quality nitrogen fertilizer product such as 28-0-0 at a rate of 4 - 8 pints per acre, or 10-34-0 at a rate of 2 - 4 pints per acre. Alternately, a high-quality, sprayable grade of ammonium sulfate (21-0-0) may be used at a rate of 2 - 4 pounds per acre. Use the lower rate for spray volumes less than 15 gal/ac.
- Do not use "Dash", "Dash HC", crop oil concentrates or methylated seed oil products such as "Sun-It II" when tank mixing either HARMONY® GT XP or CLASSIC® plus HARMONY® GT XP with "PURSUIT" DG as excessive crop injury may occur.

APPLICATION INFORMATION

Broadcast Application: Use flat fan nozzles at 25 - 40 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 Application: For band application, use proportionately less spray mixture. To avoid crop injury, carefully calibrate the band applicator so as not to exceed the desired use rate.

Carefully follow the manufacturer's instructions for nozzle type, (flat fan preferred), nozzle orientation, distance of the nozzles from the crop and weeds, spray volume, calibration, and spray pressure.

Aerial Application: Use nozzle types and arrangements that will provide for optimum spray distribution and maximum coverage at 5 to 10 gallons per acre. Do not apply during a temperature inversion, 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. Consult the respective product labels for special directions for aerial application.

IMPORTANT PRECAUTIONS

- Soybeans should be free from stress and actively growing at the time of application. Stress may be caused by abnormally hot or cold weather, growing conditions such as drought or water-saturated soil, disease, soil nutrient deficiencies such as iron chlorosis, or injury from nematodes, insects, or prior herbicide applications.

- Applications of either DuPont™ HARMONY® GT XP Herbicide or CLASSIC® plus HARMONY® GT XP when tank mixed with "PURSUIT" DG may shorten stem internodal length and cause temporary crop injury. Crop response may be increased when applications are made to soybeans that are under stress.

Soybeans will recover quickly under normal growing conditions.

- Cultivation may put weeds under stress by pruning roots, thus reducing weed control. Avoid cultivation 7-10 days prior to or following application of the herbicide treatment. For maximum weed control, cultivate 7-10 days after application.

- Apply this treatment after the first trifoliolate of the soybean has fully expanded and the plants are actively growing, but before soybeans begin to flower.
- Refer to the DuPont™ CLASSIC®, HARMONY® GT XP, "PURSUIT" DG Herbicide labels for additional use directions, use restrictions, rotational crop intervals, and precautions. The most restrictive provision on either label will apply.

- Applications within 1 hour of rain may reduce weed control.

With Glyphosate
HARMONY® GT XP herbicide may be tank mixed with glyphosate for control of certain broadleaf weeds in Roundup Ready or Roundup Ready X STS® stacked trait soybeans.

For tank mixtures of HARMONY® GT XP plus glyphosate herbicide, always read and follow all use directions, restrictions, and pre-cautions on the EPA approved labels. When tank mixing, the most restrictive label applies.

For improved control of common lambsquarters, volunteer "Roundup Ready" canola, ALS-sensitive horseweed and Kochia, and/or wild buckwheat, tank mix up to 0.33 oz of HARMONY® GT XP per acre with a labeled rate of glyphosate. Refer to the HARMONY® GT XP and glyphosate manufacturer's labels and technical bulletins for other weeds which may be controlled or suppressed, and the maximum weed size at application. For best results, apply to small, actively growing weeds.

The HARMONY® GT XP plus glyphosate tank mix may be applied to STS® X "Roundup Ready" stacked trait soybeans anytime after the first trifoliolate has expanded fully and up until 60 days before soybeans are harvested.

The tank mixture of HARMONY® GT XP plus glyphosate is for use only on soybeans designated STS® X "Roundup Ready" stacked trait. Severe injury or death of soybeans will result if any soybeans not designated as STS® X "Roundup Ready" stacked trait are treated with this tank mixture.

Do not apply more than 0.33 oz HARMONY® GT XP per acre per growing season.

Adjuvants: When tank mixing HARMONY® GT XP with glyphosate, it is recommended to add ammonium sulfate (AMS) at 4.25 - 17 lb per 100 gal of spray mixture. See the glyphosate manufacturer's label for specific ammonium nitrogen instructions. When velvetleaf is present, ammonium sulfate is required at a minimum rate of 2 lb per acre.

The addition of surfactant at 0.125 - 0.25% v/v (1-2 pt per 100 gal spray mixture) to some HARMONY® GT XP plus glyphosate tank mixes will improve weed control when glyphosate products are used that do not contain built-in adjuvant systems. Glyphosate products differ in their adjuvant contents. Glyphosate products such as Glyphomax or Roundup Original allow for addition of surfactants. See the manufacturer's specific surfactant instructions.

SEQUENTIAL APPLICATIONS IN SOYBEANS

Before making applications of HARMONY® GT XP to soybeans previously treated with other herbicides, ensure that the soybeans are free from stress (herbicide or environmental) and actively growing.

FIELD CORN

Do not apply to sweet corn, popcorn or field corn grown for seed. Do not apply this product through any type of irrigation systems. Do not graze or feed forage or grain from treated field corn to livestock within 30 days of application.

RESTRICTION

Do not apply by air in the State of New York.

APPLICATION INFORMATION

HARMONY® GT XP may be applied to 2-6 leaf field corn (1-5 collars, up to 16 inches tall) at a rate of 0.083 (1/12) ounce per acre. Do not apply to field corn taller than 16 inches or 5 collars, whichever is more restrictive.

HARMONY® GT XP may be applied as a tank mixture with labeled rates of atrazine and glyphosate. Do not tank mix with other corn herbicides unless specified on HARMONY® GT XP labels or technical bulletins.

Apply DuPont™ HARMONY® GT XP to field corn hybrids with a Relative Maturity (RM) of 88 days or more, including "food grade" (yellow dent, hard endosperm), waxy and high-oil corn. Not all field corn hybrids of less than 88 days RM, not all white corn hybrids or Hi-Lysine hybrids have been tested for crop safety with this product. For more information, contact your local DuPont Ag dealer. Do not apply to field corn hybrids with a Relative Maturity (RM) of 88 days or more. The responsibility of the user. Consult with your seed supplier before applying HARMONY® GT XP to any of these corn types.

Do not make more than one application per season.

TIMING TO WEEDS

Apply to weeds whose first true leaves are expanded but before weeds exceed the sizes listed below. When applied as directed, HARMONY® GT XP will control the following weeds:

WEED	Maximum Size (Inches)
Velvetleaf	6
Pigweed species	12
Lambsquarters	4
Annual smartweeds	6
Wild mustard	up to 4" in diameter

ADJUVANTS

Always add either nonionic surfactant at 0.25% v/v (1 qt/100 gal) or crop oil concentrate at 1% v/v (1 gal/100 gal) plus either ammonium nitrogen solution such as 28% UAN (2-4 lb/acre) of ammonium sulfate (2-4 lb/acre).

When tank mixing HARMONY® GT XP with glyphosate, it is recommended to add ammonium sulfate (AMS) at 4.25 - 17 lb per 100 gal of spray mixture. See the glyphosate manufacturer's label for specific ammonium nitrogen instructions. When velvetleaf is present, ammonium sulfate is required at a minimum rate of 2 lb per acre.

The addition of surfactant at 0.125 - 0.25% v/v (1-2 pt per 100 gal spray mixture) to some HARMONY® GT XP plus glyphosate tank mixes will improve weed control when glyphosate products are used that do not contain built-in adjuvant systems. Glyphosate products differ in their adjuvant contents. Glyphosate products such as Glyphomax or Roundup Original allow for addition of surfactants. See the manufacturer's specific surfactant instructions.

SOIL INSECTICIDE INTERACTIONS

HARMONY® GT XP may interact with certain insecticides previously applied to the crop. Crop response varies with field corn type, insecticide used, insecticide application method, and soil type.

HARMONY® GT XP may be applied to corn previously treated with "Fortress", "Aztec", "Force" or non-organophosphate (OP) soil insecticides regardless of soil type.

DO NOT APPLY HARMONY® GT XP to corn previously treated with Counter 15G.

- Applications of HARMONY® GT XP to corn previously treated with "Counter 20CR", "Lorsban" or "Thimet" may cause unacceptable crop injury, especially on soils of less than 4% organic matter.

- Applications of HARMONY® GT XP to corn previously treated with "Lorsban", or other organophosphate insecticides not listed above, may result in temporary crop injury.

POST HARVEST APPLICATION TIMING

HARMONY® GT XP may be used as a burndown treatment to crop stubble when the majority of weeds have emerged and are actively growing. (See the "CROP ROTATION" section of this label for additional information).

USE RATES

Apply HARMONY® GT XP at 0.3 to 0.6 ounce per acre to crop stubble after harvest. Use the 0.6 ounce per acre rate when weed infestation is heavy and predominantly consists of those weeds listed under the "WEEDS PARTIALLY CONTROLLED" section of this label or when application timing and environmental conditions are marginal. (See the "APPLICATION TIMING" section of this label for restriction on planting intervals). HARMONY® GT XP should be applied in combination with other suitable registered burndown herbicides (See the "TANK MIXTURES" section of this label for additional information).

Sequential treatments of HARMONY® GT XP may also be made provided the total amount of HARMONY® GT XP applied during one fallow/pre-plant cropland season does not exceed 1.0 ounce per acre.

TANK MIXTURES IN POST HARVEST APPLICATIONS

HARMONY® GT XP may be used as a post harvest treatment to crop stubble, and should be tank mixed with other herbicides that are registered for use in fallow.

PRODUCT USE AND APPLICATION

DIRECTIONS - ALL CROPS AND USES

GROUND APPLICATION

For best performance, select nozzles and pressure that deliver MEDIUM spray. Nozzles that deliver COARSE spray droplets may be used to reduce drift, provided spray volume is increased to maintain coverage on small weeds. For optimal product performance and minimal spray drift, adjust the spray boom to the lowest possible spray height listed in manufacturer's specifications.

Overlaps or starting, stopping, slowing, and turning while spraying may result in crop injury.

WHEAT, BARLEY, OAT, TRITICALE, POST-HARVEST BURNDOWN, PRE-PLANT BURNDOWN AND FALLOW:

For flat-fan nozzles, use a spray volume of at least 5 gal per acre (GPA). For flood nozzles on 30" spacings, use at least 10 GPA, flood nozzles no larger than TK10 (or the equivalent), and a pressure of at least 30 psi. For 40" nozzle spacings, use at least 13 GPA; for 60" spacings use at least 20 GPA. It is essential to overlap the nozzles 100% for all spacings.

"Raindrop RA" nozzles are not recommended for DuPont™ HARMONY® GT XP herbicide applications, as weed control performance may be reduced. Use screens that are 50-mesh or larger.

CORN AND SOYBEANS: Broadcast Application

Use 10-25 gallons of water per acre.

Ensure that equipment is set up to avoid applying an excessive rate directly over the rows and into the corn plant whorl. Overlaps or starting, stopping, slowing, and turning while spraying may result in crop injury.

Under heavy weed pressure or dense crop foliage, increase minimum spray volume to 15-25 gal per acre.

Band Application
For band applications, use proportionately less spray mixture.

To avoid crop injury, carefully calibrate the band applicator to not exceed the labeled rate.

Carefully follow the manufacturer's instructions for nozzle type (flat fans), orientation, distance of nozzles from the crop and weeds, spray volumes, calibration and spray pressure.

AERIAL APPLICATION

Do not apply by air in the State of New York.

Do not apply during a temperature inversion, when winds are gusty, or when conditions favor poor coverage and/or off-target spray movement.

In wheat, barley, oats, triticale, post-harvest burndown, pre-plant burndown and fallow use 2 to 5 gallons per acre; use at least 3 gallons per acre in Idaho, Oregon and Utah.

In corn and soybeans, use a minimum of 5 gallons per acre. When applying HARMONY® GT XP by air in areas adjacent to sensitive crops, use solid stream nozzles oriented straight back. Adjust the swath to avoid spray drift damage to sensitive crops downwind and/or use ground equipment to treat the border edge of fields. See the Spray Drift Management section of this label.

SPRAY ADJUVANTS

Always include a spray adjuvant with applications of HARMONY® GT XP. In addition to a spray adjuvant, an ammonium nitrogen fertilizer may be used. Do not use low rates of liquid nitrogen fertilizer solution as a substitute for surfactant. Antifoaming agents may be used if needed.

Nonionic Surfactant (NIS)
Consult your Ag dealer or applicator, local DuPont fact sheets and technical bulletins prior to using an adjuvant system. If another herbicide is tank mixed with HARMONY® GT XP, consult the respective product labels for use with both products. Products must contain only EPA-exempt ingredients.

Nonionic Surfactant (NIS)

- Apply 0.06 to 0.50% volume/volume (1/2 pt to 4 pt per 100 gal of spray solution).
- Surfactant products must contain at least 60% nonionic surfactant with a hydrophilic/lipophilic balance (HLB) greater than 12. -- See the "TANK MIXTURES" section of this label for additional information.

Crop Oil Concentrate (COC) - Petroleum or Modified Seed Oil (MSO)

- Apply at 1% v/v (1 gal per 100 gal spray solution) or 2% under arid conditions. MSO adjuvants may be used at 0.5% v/v if specified on local DuPont product literature or service policies.
- Oil adjuvants must contain at least 80% high quality, petroleum (mineral) or modified vegetable seed oil with at least 15% surfactant emulsifiers.

Special Adjuvant Types

- Combination adjuvant products may be used at doses that provide the required amount of NIS, COC, MSO and/or ammonium nitrogen fertilizer. Consult product literature for use rates and restrictions.
- In addition to the adjuvants specified above, other adjuvant types may be used if they provide the same functionality and have been evaluated and approved by DuPont product management. Consult separate DuPont technical bulletins for detailed information before using adjuvant types not specified on this label.

Ammonium Nitrogen Fertilizer

- Use 2 qt/acre of a high-quality urea ammonium nitrate (UAN), such as 28%N or 32%N, or 2 lb/acre of a spray-grade ammonium sulfate (AMS). Use 4 qt/acre UAN or 4 lb/acre AMS under arid conditions.

CROP ROTATION

Soybeans, field corn, grain sorghum, rice, safflower, wheat, barley, oats, and triticale may be planted anytime after the application of DuPont™ HARMONY® GT XP. Cotton may be planted 7 days after application. Any other crop may be planted 45 days after the application of HARMONY® GT XP.

GRAZING

Allow at least 7 days between application and grazing of treated forage. In addition, allow at least 7 days between application and feeding of forage from treated areas to livestock. Allow at least 30 days between application and feeding of hay from treated areas to livestock. Harvested straw may be used for bedding and/or feed.

MIXING INSTRUCTIONS

Do not use with spray additives that alter the pH of the spray solution below pH 5.0 or above pH 9.0, as rapid product degradation can occur. Spray solutions of pH 5.0 and above are acceptable for HARMONY® GT XP.

- Fill the tank 1/4 to 1/3 full of water.
- While agitating, add the required amount of HARMONY® GT XP.
- Continue agitation until the HARMONY® GT XP is fully dispersed, at least 5 minutes.
- Once the HARMONY® GT XP is fully dispersed, maintain agitation and continue filling tank with water. HARMONY® GT XP should be thoroughly mixed with water before adding any other material.

- As the tank is filling, add tank mix partners (if desired) then add the required volume of spray adjuvant. Always add spray adjuvant last. Antifoaming agents may be added after the tank is 1/4 full of water. Do not add any other spray solution below pH 6.0 as rapid product degradation can occur. Spray solutions of pH 7.0 and higher allow for optimum stability of HARMONY® GT XP.

- If the mixture is not continuously agitated, settling will occur. If settling occurs, thoroughly re-agitate before using.
- Apply HARMONY® GT XP spray mixture within 24 hours of mixing to avoid product degradation.
- If HARMONY® GT XP and a tank mix partner are to be applied in multiple loads, pre-slurry the HARMONY® GT XP in clean water prior to adding to the tank. This will prevent the tank mix partner from interfering with the dissolution of the HARMONY® GT XP.

SPRAY EQUIPMENT

For specific application equipment, refer to the manufacturer's instructions for additional information on GPA, pressure, speed, nozzle types and arrangements, nozzle heights above the target canopy, etc.

Be sure to calibrate air or ground equipment properly before application. Select a spray volume and delivery system that will ensure thorough coverage and a uniform spray pattern with minimum drift. Use higher spray volumes to obtain better coverage when crop canopy is dense. Avoid swath overlapping, and shut off spray booms while starting, turning, slowing, or stopping, to avoid injury to the crop. Do not make applications using equipment and/or spray volumes or during weather conditions that might cause spray to drift onto nontarget sites. For additional information on spray drift refer to the "SPRAY DRIFT MANAGEMENT" section of this label. Continuous agitation is required to keep HARMONY® GT XP herbicide in suspension.

SPRAYER CLEANUP

The spray equipment must be cleaned before HARMONY® GT XP is sprayed. Follow the cleanup procedures specified on the labels of the previously applied products. If no directions are provided, follow the six steps outlined in the "AFTER SPRAYING HARMONY® GT XP" section of this label.

AT THE END OF THE DAY

It is recommended that during periods when multiple loads of HARMONY® GT XP herbicide are applied, at the end of each day of spraying the interior of the tank be rinsed with fresh water and then partially filled, and the boom and hoses flushed. This will prevent the buildup of dried pesticide deposits which can accumulate in the application equipment.

AFTER SPRAYING DUPONT™ HARMONY® GT XP AND BEFORE SPRAYING CROPS OTHER THAN WHEAT, BARLEY, OAT, TRITICALE, FIELD CORN AND SOYBEANS

To avoid subsequent injury to desirable crops, thoroughly clean all mixing and spray equipment immediately following applications of HARMONY® GT XP as follows:

- Drain tank; thoroughly rinse spray tanks, boom, and hoses with clean water. Loosen and physically remove any visible deposits.
- Fill the tank with clean water and 1 gal of household ammonia (contains 3% active ingredient) for every 100 gal of water. Flush the hoses, boom, and nozzles with the cleaning solution. Then add more water to completely fill the tank. Circulate the cleaning solution through the tank and hoses for at least 15 min. Flush the hoses, boom, and nozzles again with the cleaning solution, and then drain the tank.
- Remove the nozzles and screens and clean separately in a bucket containing cleaning agent and water.

- Rinse step 2.
- Rinse the tank, boom, and hoses with clean water.
- If only ammonia is used as a cleaner, the rinseate solution may be applied back to the crop(s) specified on this label. Do not exceed the maximum labeled use rate. If other cleaners are used, consult the cleaner label for rinseate disposal instructions. If no instructions are given, dispose of the rinseate on site or at an approved waste disposal facility.

- Equivalent amounts of an alternate-strength ammonia solution or a DuPont-approved cleaner can be used in the cleanout procedure. Carefully read and follow the individual cleaner instructions. Consult your Ag dealer, applicator, or DuPont representative for a listing of approved cleaners.

- CAUTION:** Do not use chlorine bleach with ammonia because dangerous gases will form. Do not clean equipment in an enclosed area.
- Steam-cleaning aerial spray tanks is recommended prior to performing the above cleanout procedure to facilitate the removal of any caked deposits.
- When HARMONY® GT XP is tank mixed with other pesticides, all cleanout procedures for each product should be examined and the most rigorous procedure should be followed.

- In addition to this cleanout procedure, all pre-cleanout guidelines on subsequently applied products should be followed as per the individual product labels.
- Where routine spraying practices include shared equipment frequently being switched between applications of HARMONY® GT XP and applications of other pesticides to HARMONY® GT XP-sensitive crops during the same spray season, it is recommended that a sprayer be dedicated to HARMONY® GT XP to further reduce the chance of crop injury.

SPRAY DRIFT MANAGEMENT

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

IMPORTANCE OF DROPLET SIZE

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances coverage and control. APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS. See **Wind, Temperature and Humidity, and Temperature Inversions** sections of this label.

Controlling Droplet Size - General Techniques

- Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure** - Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.
- Nozzle Type** - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles.

Controlling Droplet Size - Aircraft

- Number of Nozzles** - Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.
- Nozzle Orientation** - Orienting nozzles so that the spray is emitted backwards, parallel to the airstream will produce larger droplets than other orientations.
- Nozzle Type** - Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types.
- Boom Length** - The boom length should not exceed 3/4 of the wing or rotor length - longer booms increase drift potential.
- Application Height** - Application more than 10 ft above the canopy increases the potential for spray drift.

BOOM HEIGHT

Setting the boom at the lowest referenced height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimum bounce.

WIND

Drift potential increases at wind speeds of less than 3 mph (due to inversion conditions) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. AVOID APPLICATIONS DURING GUSTY OR WINDLESS CONDITIONS.

Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SHIELDED SPRAYERS