

## **DRILL SEEDED RICE AND WATER SEEDED RICE - WEEDS CONTROLLED PREFLOOD (< 24\" RUNNERS STAGE OF WEED DEVELOPMENT)**

General Information

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Grasp Xtra herbicide is a postemergence herbicide for selective control of susceptible grass, broadleaf, and annual sedge weeds in rice. Susceptible weeds emerged at the time of application will be controlled. A spray volume of 10 gallons or more per acre (gpa) and uniform coverage are required for optimum performance. Thorough coverage of target weeds is important. Grasp Xtra is rainfast within 1 hour after application and has soil residual herbicidal activity dependent upon weed species, soil type, soil moisture (rainfall or irrigation after application) and the rate of application. Do not apply Grasp Xtra later than 3 months prior to crawfish production.

Rice crops grown under adverse environmental conditions, such as extreme cold or heat, may express temporary crop injury, including slight height reduction or root stunting, when Grasp Xtra is applied. Any crop stress or environmental factors which decrease plant metabolism and growth may reduce weed control efficacy and crop tolerance. Such effects are transient and do not affect yield. Grasp Xtra may be used on all rice varieties.

General Use Precautions and Restrictions

- Preharvest Interval: Do not apply within 60 days before rice harvest. Do not apply to any other crop or site.
- Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.
- Do not rotate treated land to crops other than rice for 3 months following application.
- Use of an agriculturally approved crop oil concentrate or methylated seed oil

adjuvant at a minimum of 1 quart per acre is necessary with Grasp Xtra.

- Do not use organosilicone surfactants in spray mixtures of this product.
- Do not apply this product prior to the 2- to 3-leaf stage or after the 1/2" internode elongation stage of rice development (see special water seeded rice timing of application instructions in Application Instructions, Water Seeded Rice). Do not apply in the booting or subsequent stages of rice development.
- Direct application to ditches used to transport irrigation water is prohibited.
- Do not apply more than 22 fl oz of Grasp Xtra per acre in a single application.
- Do not make more than 1 application or apply more than 22 fl oz of Grasp Xtra per acre during the growing season in both the first and ratoon crops combined.
- A sequential application of Grandstand R herbicide can be made at no more than 1 pint per acre at least 20 days before or after applying Grasp Xtra. Follow all restrictions on the label for Grandstand R.
- Do not apply Grasp Xtra less than 20 days prior to draining the field unless the water is contained within a tailwater recovery system or other system appropriate for preventing discharge from rice. Discharge is permitted 20 days following the last application of Grasp Xtra within the system.
- Poor weed control may result from application of Grasp Xtra made to plants under stress from abnormally hot or cold weather; environmental conditions such as drought, hail damage, hydrogen sulfide, or high pH soils; or prior herbicide applications.
- Do not apply where runoff or irrigation water may flow directly onto agricultural land other than rice fields.
- Do not tank mix Grasp Xtra with malathion or methyl parathion. Do not make an application of malathion or methyl parathion within 7 days of an application of Grasp Xtra.
- Do not apply Grasp Xtra directly to, or otherwise permit Grasp Xtra to come into contact with, cotton, soybeans, grapes, tobacco, vegetable crops, flowers, ornamental shrubs or trees, or other desirable broadleaf plants, as serious injury

may occur. Do not permit spray mists containing Grasp Xtra to drift onto desirable broadleaf plants.

- Application of Grasp Xtra to fields which have been leveled (except water leveling) within 12 months prior to application may result in serious rice injury in areas that have been cut or filled.
- Application of Grasp Xtra to rice grown in soils with pH >7.8 or high salt content may result in serious rice injury.
- Except for crawfish, do not fish or commercially grow fish, shellfish or crustaceans on treated acres during the year of treatment. For crawfish production, do not apply Grasp Xtra later than 3 months prior to crawfish harvest.
- Do not allow tank mixes of Grasp Xtra to sit overnight.
- Do not overlap or double spray ends of fields.
- Do not apply Grasp Xtra with 32% liquid nitrogen fertilizer or zinc fertilizer.
- Chemigation: Do not apply this product through any type of irrigation system.
- Do not use Grasp Xtra on wild rice.

## Mixing Instructions

### Grasp Xtra - Alone

Fill spray tank to one-half full with water. Start agitation. Add correct quantity of Grasp Xtra and recommended adjuvant. Continue agitation while filling spray tank to required volume and during application.

### Grasp Xtra - Tank Mixes

Continuous agitation is required for tank mixes. Sparger pipe agitators generally provide the best agitation in spray tanks.

Grasp Xtra may be applied in tank mix combination with labeled rates of Command (clomazone-containing products), pendimethalin, propanil-containing products, Clincher SF herbicide, Facet (quinclorac-containing products), Londax (bensulfuron-containing products), Newpath and Permit (halosulfuron-containing products). Tank mixing or sequential applications to stressed weeds of Grasp Xtra with propanil-

containing products may result in reduced control of some weeds (i.e., alligatorweed). Tank mixing Grasp Xtra with Facet (quinclorac-containing products) may result in reduced control of annual smartweed. Tank mixing or using Grasp Xtra with any other product not specifically and expressly authorized by the label shall be the exclusive risk of the user, applicator and/or application advisor. When tank mixing, follow label directions, including application rates, use precautions and limitations on each respective label. Applications to rice less than 3 leaves may cause unacceptable injury.

## Application Instructions

### Environmental Conditions and Herbicidal Activity of Grasp Xtra

Factors for effective weed control with Grasp Xtra include proper application rate, weed size, daytime and nighttime temperatures, soil moisture prior to and following application, and use of adjuvants. Best weed control results are obtained when Grasp Xtra is applied to small, actively growing weeds, when daytime and nighttime temperatures are warm (60°F or more), and soil moisture is adequate to support active weed growth prior to and following application. If weeds are under drought stress, consider delaying application until more favorable conditions resume. Application when weeds are moisture stressed or larger than the recommended size for control may result in only partial control.

- Grasp Xtra is rainfast in 1 hour.
- Applications made immediately prior to, during, or immediately following periods of large day/night temperature fluctuations or where daytime and nighttime temperatures do not exceed 60°F may decrease weed control.
- Poor weed control may result from application of Grasp Xtra made to plants under stress from abnormally hot or cold weather; environmental conditions such as drought, hail damage, hydrogen sulfide, or high pH soils; or prior herbicide applications.

### Aerial Application

Apply in a spray volume of 10 gpa or more when applying by air. Apply with coarse droplet category per S-572 ASABE standard; see NAAA, USDA or nozzle manufacturer guidelines. Follow guidelines in the Aerial Drift Reduction Advisory to

minimize potential drift to off-target vegetation.

Aircraft should be patterned per Operation Safe/PAASS program for calibration and uniformity to provide sufficient coverage and control.

### Ground Application

Apply in a spray volume of 10 gpa or more when applying by ground. Use coarse or coarser nozzle spray quality per S-572 ASABE standard; see USDA literature or nozzle manufacturer guidelines. Follow nozzle manufacturer's recommendations for nozzle pressure, spacing and boom height to provide a uniform spray pattern. Follow appropriate Spray Drift Management information where drift potential is a concern.

### Resistance Management

Grasp Xtra contains two different mode of action products. The modes of action of Grasp Xtra are the inhibition of the acetolactate synthase (ALS) enzyme and auxin inhibition. Weed populations may develop biotypes that are resistant to different herbicides with the same mode of action. If herbicides with the same mode of action are used repeatedly in the same field, resistant biotypes may eventually dominate the weed population and may not be controlled by these products. Other resistance mechanisms, such as enhanced metabolism, may also exist and may cause reduced weed control.

This product should be used as part of an Integrated Pest Management (IPM) program that may include biological, cultural, and chemical practices aimed at preventing economic pest damage. Application of this product should be based upon appropriate IPM and resistance management strategies and practices that delay or reduce the development of resistant weed biotypes.

Such practices include, but are not limited to, field scouting, use of weed free crop seed, proper water management, correct weed pest identification, following rotational practices outlined on pesticide labels, and treating when target weed populations are at the correct stage and economic thresholds for control. Make only 1 application per year of Grasp Xtra. Allow at least 20 days between applications. Follow all rice stage growth restrictions for applications of Grandstand R in rice.

To delay development of herbicide resistance, the following practices are

recommended:

- The use of herbicides with the same mode of action should not be used in sequential applications.
- Grasp Xtra can be tank mixed or used sequentially with other approved ALS mode of action products to broaden the spectrum of weed control and control weeds that Grasp Xtra does not control.
- Herbicides should be used based upon an IPM program.
- Monitor treated areas and control escaped weeds.
- Contact local extension or crop advisor for IPM and resistance management information.

### Limitations, Restrictions, and Exceptions

#### Application Timing

#### Drill Seeded Rice

Grasp Xtra may be applied to drill seeded rice from the 2 to 3 leaf to 1/2" internode elongation stage of growth. Within this application window, application timing is dependent upon cultural practices and optimum timing for weed species present. (See Application Rates and Weeds Controlled table.) Do not apply if crop or weeds are under drought stress.

A shallow flood may be applied no sooner than 72 hours following application of Grasp Xtra. If the weeds are drought stressed, flush the field (with irrigation or adequate rainfall) before applying Grasp Xtra so that weeds are actively growing at time of treatment.

Preflood Application: Adequate soil moisture for actively growing weeds is essential for preflood applications. Flushing of rice fields may be necessary prior to application if rice or weeds are moisture stressed. Residual water remaining in the field does not adversely affect weed control as long as weeds are at least 70% exposed. Flushing fields or rainfall after application may improve weed control. After application, follow standard cultural practices for flooding fields. Following the application, wait at least 3 days before establishing the permanent flood, then

establish permanent flood as soon as rice can tolerate flooding. Reinfestation of some weeds may occur if a permanent flood is not established in a timely manner. One sequential application of Grandstand R at up to 1 pint per acre can be applied before or after applying Grasp Xtra. Allow at least 20 days between applications. Follow all rice stage growth restrictions for applications of Grandstand R in rice.

### Water Seeded Rice

Grasp Xtra may be applied to water seeded rice from the 3 to 4 leaf to 1/2" internode elongation stage of growth. Rice crowns need to be completely covered by water. Within this application window, application timing is dependent upon cultural practices and optimum timing for weed species present. (See Application Rates and Weeds Controlled table.) Do not apply if crop or weeds are under drought stress.

Fields must be partially drained to expose weeds prior to application. Treatments should be made when weeds are well emerged above the water surface. Residual water remaining in the field does not adversely affect weed control so long as weeds are at least 70% exposed. Weeds submerged at the time of application will not be controlled. If water level is dropped to expose weeds prior to application, do not raise water level for at least 48 hours after application. The growing points of rice plants at the soil surface (crown) should be covered with water at the time of application.

For delayed flood application, do not allow excessive drying of the soil which may cause the weeds to become drought stressed resulting in unacceptable weed control. For best results, soils should be moist at application and maintain good soil moisture after application by flushing or rainfall until establishment of permanent flood. After an application of Grasp Xtra to a partially drained field with standing water present over the entire field, wait at least 3 hours before beginning the establishment of the permanent flood.

If the field is completely drained with no standing water at application, wait at least 3 days before beginning the establishment of the permanent flood. One sequential application of Grandstand R at up to 1 pint per acre can be applied before or after applying Grasp Xtra; allow at least 20 days between applications. Follow all rice stage growth restrictions for applications of Grandstand R in rice.

Note: Rice is most tolerant to postemergence applications of Grasp Xtra from the 2-

to 3-leaf stage to the 1/2" internode elongation stage of rice development. Postemergence applications of Grasp Xtra may result in temporary rice injury that appears as leaf chlorosis or stunting. Rice will normally recover from these symptoms in two to four weeks. Treatments applied after the 1/2" internode elongation stage may result in increased rice injury. Do not apply in the booting or subsequent stages.

#### Weeds Controlled

Note: Do not make more than 1 application or apply more than 22 fl oz of Grasp Xtra per acre during the growing season in both the first and ratoon crops combined. One sequential application of Grandstand R at up to 1 pint per acre can be applied before or after applying Grasp Xtra. Allow at least 20 days between applications. Follow all rice stage growth restrictions for applications of Grandstand R in rice.

#### Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

Pre-Harvest Interval

60 days

#### Rates

[field rates 0](#)

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Restricted Entry Interval

24 hours

#### Timings

[Postemergence \(Weed\)](#)

[<24" runners stage of weed development.](#)