



LESS GRASS PRESSURE. MORE SORGHUM ACRES.

The Inzen™ technology is a ground-breaking herbicide-tolerant trait for grain sorghum. The non-transgenic Inzen trait was built on Pioneer's elite genetic and agronomic traits and extensively field tested by local Pioneer field teams to help drive profitability on every acre. For farmers the Inzen trait help protect yield potential and maximizes land production by opening sorghum acres previously limited or restricted by grass pressure.

The Inzen trait allows for over-the-top herbicide applications to control annual grasses. Inzen grain sorghum in combination with Zest™ WDG herbicide delivers **excellent postemergence control of key annual grasses such as foxtail, barnyardgrass and panicum.**

BACKED BY ELITE GENETICS

Pioneer® brand sorghum products with the non-transgenic Inzen™ trait are powered by **elite genetics and rigorously tested for several years as part of extensive on-farm trials** to ensure it protects yield and performance potential. Pioneer brand sorghum hybrids are proven winners – consistently dominating top spots in the National Sorghum Producers Yield Contest.

Inzen is the latest offering to the industry's broadest sorghum product lineup designed to meet the needs of today's farmers.

"Farmers will have even more choices when selecting their Pioneer sorghum hybrids with the release of our ALS-tolerant Inzen products further differentiating our industry-leading sorghum lineup. This should help meet the needs of today's farmers."

-Justin Gifford, research scientist and sorghum breeder, Pioneer

NOVEL GRASS CONTROL

The ALS-tolerant Inzen trait gives farmers an **innovative and effective option for postemergence control of key annual grasses in grain sorghum.** Farmers now have more choices when selecting a sorghum hybrid.



Sorghum can now effectively be planted on acres that had previously been limited or considered unplatable because of grass pressure to help farmers maximize their land production.

WEEDS CONTROLLED IN INZEN™ GRAIN SORGHUM

Weeds controlled with 0.67 ounces of Zest™ WDG herbicide

GRASSES / MAX. HEIGHT OR DIAMETER		GRASSES / MAX. HEIGHT OR DIAMETER	
Barnyardgrass [†]	4"	Panicum fall	4"
Broadleaf signalgrass	2"	Ryegrass (Italian, perennial) [†]	6"
Crabgrass (large)*	2"	Sandbur (field, longspine) [†]	3"
Foxtails (bristly, giant, green, yellow) [†]	4"	Wild oats [†]	4"
Itchgrass	6"	Wild proso millet	4"
Panicum (Texas, browntop)	3"	Witchgrass	6"

[†]Naturally occurring resistant biotypes are known to occur. If weed escapes occur, treat with an herbicide having a mode of action other than Group 2 and/or use non-chemical methods to remove escapes, as practicable, with the goal of preventing seed production.

*Refer to specific weed instructions section of this label.



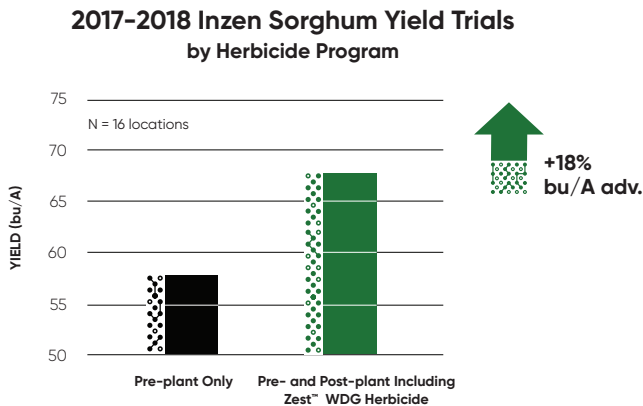
- Photo courtesy of CSU Research Center, Rocky Ford, Colorado.*

"Our sorghum grain hybrids with the novel Inzen herbicide-tolerant trait unlocks acres for farmers that were previously limited by grass pressure. The combination of our elite genetics and Inzen trait delivers the yield potential you expect from Pioneer, with expanded key weed control."

-Cleve Franks, sorghum breeder from Taft, Texas

PROTECTING YIELD

Pioneer® brand grain sorghum products with the Inzen™ herbicide-tolerant trait, paired with Zest™ WDG herbicide protects the yield potential of the high-performance Pioneer genetics in your field by suppressing pressure from grasses such as barnyardgrass, panicum, and other yield-robbing weeds.



"The development of over-the-top grass control has long been recognized as one of the highest priorities of sorghum growers. The Inzen trait, along with Zest WDG herbicide, will now provide a great resource for postemergence grass control."

-Brent Bean, director of agronomy, United Sorghum Checkoff Program

A SYSTEM APPROACH

The Inzen trait in combination with Zest WDG herbicide delivers an unsurpassed postemergence grass control system in grain sorghum. Zest WDG includes a proven herbicide active ingredient - a proprietary formulation of nicosulfuron - that is new for sorghum.

The system was designed specifically for the grain sorghum market with a low use rate and wide application window (between 4" and 20" on Inzen sorghum). Zest WDG herbicide postemergence is part of a program approach to control weeds in Inzen grain sorghum. The program approach with Inzen includes a preemergence application of FulTime® NXT or Cinch® ATZ herbicides followed by Zest WDG postemergence. It also offers exceptional crop safety at all stages of growth.

Zest™ WDG
HERBICIDE



RESPONSIBLE MANAGEMENT

Stewardship best management practices for in-season Inzen™ Trait for sorghum production – growers:

- Start clean: Plant into fields in which emerged weeds have been controlled by non-selective herbicides or pre-plant tillage.
- DO NOT plant the Inzen trait in fields known to contain ALS-resistant johnsongrass or ALS-resistant shattercane.
- DO NOT plant the Inzen trait in consecutive years in the same field.
- Plan crop rotation strategies that allow the use of effective alternate modes of action (MOA) herbicides in the year immediately following the Inzen trait.
- Manage johnsongrass and shattercane to minimize flowering within a certain distance during the pollination window of the sorghum crop, including in road ditches, fence rows, etc.
- Closely monitor effectiveness of herbicide applications, and control escapes, especially of johnsongrass and/or shattercane which might flower at the same time as the sorghum crop.
- Maintain detailed field records so that cropping and herbicide histories are known.

Crop Rotation Alternative Modes of Action (MOA) for Grass Control in Crops Following Sorghum

CORN	<ul style="list-style-type: none"> • Glyphosate in glyphosate-tolerant corn • Glufosinate in glufosinate-tolerant corn • Tembotrione • Quinclorac in Enlist® corn • Topramezone
SOYBEAN	<ul style="list-style-type: none"> • Glyphosate in glyphosate-tolerant soybeans • Glufosinate in glufosinate-tolerant soybeans • ACCase herbicides
COTTON	<ul style="list-style-type: none"> • Glyphosate in glyphosate-tolerant cotton • Glufosinate in glufosinate-tolerant cotton • ACCase herbicides
WHEAT	<ul style="list-style-type: none"> • Preplant or post harvest control nonselective herbicides • Tillage
SUNFLOWER	<ul style="list-style-type: none"> • Preplant tillage and/or • Nonselective herbicides and/or • ACCase herbicides
FALLOW	<ul style="list-style-type: none"> • Tillage • Nonselective herbicides and/or • ACCase herbicides
SORGHUM	Do not plant any sorghum the following year after planting Inzen™ herbicide-tolerant trait sorghum

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*Refer to specific weed instructions section of this label.

2017-2018 Corteva Agriscience Research Trials Inzen grain sorghum hybrids only

Herbicide programs: Cinch ATZ (2 pt/A) Cinch ATZ (2 pt/A) fb Zest WDG (0.67 oz/A) + Atrazine (0.75 qt/A)

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