

PIONEER PREMIUM SEED & TREATMENTS, CROP INSURANCE, AGRONOMY SERVICES, FIELD DAYS, SEED WHEAT, SEED DELIVERY, & PERSONAL SERVICE

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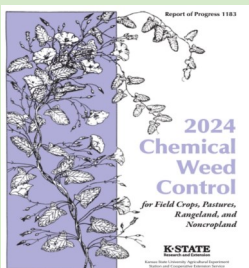
### K-State 2024 Chemical Weed Control Guide

One of the most popular K-State Research and Extension publications is now online besides being available in print. This publication provides suggestions for chemical weed control in several major crops. Orders for paper copies can be placed starting in January by contacting the K-State R & E bookstore.

(785) 532-5830  
(785) 532-7938 fax  
[orderpub@k-state.edu](mailto:orderpub@k-state.edu)

View & download it online on our website  
[www.wildcatagriservices.com/resources](http://www.wildcatagriservices.com/resources)

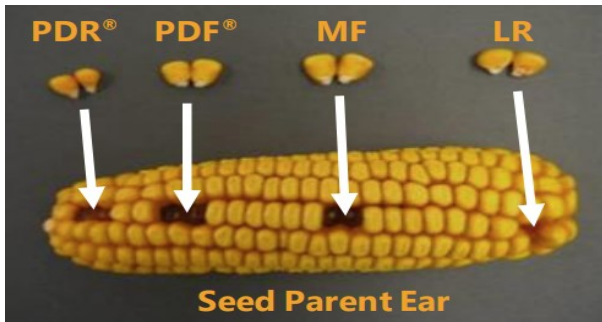
and then click on K-State Research & Extension



## UNDERSTANDING CORN SEED SIZING

### Corn Seed Sizing

- When corn seed goes through the conditioning process, it is separated into fractions based on kernel size and shape creating uniformity.
- Kernel size (small medium or large) and shape (round or flat) is determined primarily by the position of the kernels on the ear.
- Seed size and shape can also vary by hybrid and weather conditions during seed production, including temperature and rainfall.
- Small round kernels originate from the ear tip, flats from the middle and large round kernels from the butt end of the ear.
- All kernel sizes from the same hybrid have the same yield



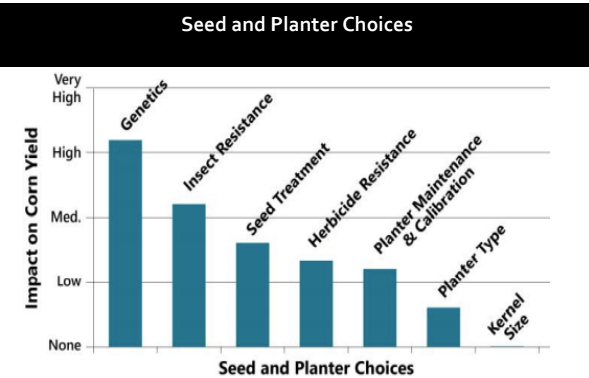
- F denotes flat seed and R denotes round seed.
- L denotes large seed and M denotes medium seed.
- Precision design rounds and flats (PDR® seed and PDF® seed) reference specific sizes that are suitable to specific planter plates. The majority of the seed from an ear segregate into PDR seed and PDF seed fractions.

Ave. fractions of Pioneer seed corn in different kernel sizes in the U.S.

Kernel Size	% in Kernel Size
PDR	30
PDF	24
LR	2
MR	25
LF	1
MF	18

### Impact of Seed Size

- Kernel size has minimal effect on seed vigor, field emergence or final yield.
- Seed is sized to maintain uniformity based on planter requirements.
- The most important factor in corn yield is the choice of hybrid (genetics). Planting the right hybrid with the desired agronomic traits will provide the best overall yield results.



- Nearly all kernel sizes can be successfully planted with all planter types. Additional adjustment may be required in some cases.

Kernel size Plantability guidelines for air, vacuum, finger pick-up & plate-type planters					
Kernel Sizes		Planter Type			
		Air	Vacuum	Finger Pickup	Plate
-	PDR	●	●	●	●
-	PDF	●	●	●	●
Large round	R22	●	◆	◆	●
Medium round	R23	●	●	●	●
Large flat	F12	●	●	●	●
Medium flat	F14	●	●	◆	●

● Acceptable Plantability ◆ Requires Additional Adjustment

- For the most precise recommendations, you can directly access information for individual seed batch numbers and your specific planter type at [www.pioneer.com/plantability](http://www.pioneer.com/plantability)

## 2024 PIONEER INFINITY PROGRAM

15% CASH DISCOUNT Silver LEVEL

### QUALIFIERS:

Invoice and Payment by March 1, 2024

### BENEFITS:

50% Replant

Granular Insights

Financing: Prime - 1 @ 12% Discount

### AG RISK MANAGEMENT

Crop Insurance today offers...Lots of choices, if you want a crop insurance agent that can help you make choices from a farmers perspective contact

Steve McGinn 316-284-1935

**Discounts for 2024** Platinum and Gold customers who prepay for approved Corteva Agriscience™ crop protection products by **March 1st 2024** will earn an additional 5% on your Corteva Prepay dollars. Total savings adds up to 15% cash or 10% credit.

See eligible crop protection products at [www.wildcatagriservices.com/services](http://www.wildcatagriservices.com/services) then click on TruChoice Financing or at [pioneer.com/truchoice](http://pioneer.com/truchoice)

### CROP PROTECTION SAVINGS

Earn		Qualification
Prepay Savings	10% Cash or 5% Credit	Fund a TruChoice® prepay account, with a minimum of \$5,000 by Mar. 1, 2024
PLUS		
Earn		Qualification
Pioneer Customer Bonus	5% Additional Upfront Savings	Achieve Infinity Platinum or Gold level
Total Savings		15% Cash or 10% Credit

## UPCOMING AG MEETINGS, CONFERENCES AND SCHOOLS

**FARMCON** Jan 3rd –4th in Kansas City MO. [www.farmcon.com/#registerNow](http://www.farmcon.com/#registerNow)

**SOIL HEALTH U AND TRADESHOW** Jan 17th-18th in Salina <https://soilhealthu.net>

**K-State Corn and Soybean Crop Schools** January 17th in Hesston At Agco Corporation Online registration is open. Please visit <https://ksccorn.com/schools/>

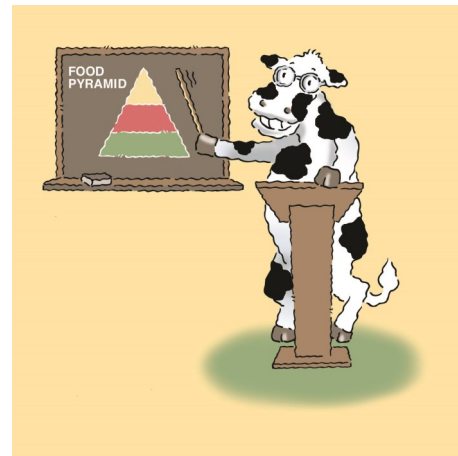
**KARTA AG TECHNOLOGY CONFERENCE** Jan 25-26th <https://www.karta-online.org/attendee-registration>

**NO-TILL ON THE PLAINS** Jan. 22nd –24th 2024 [www.notill.org/events/28th-no-till-on-the-plains-winter-conference](http://www.notill.org/events/28th-no-till-on-the-plains-winter-conference)

**TOP PRODUCER SUMMIT** Feb 5th –7th in Kansas City <https://events.farmjournal.com/top-producer-summit-2024/begin>

**AG INNOVATION FORUM 2024** Feb 13th in Kansas City MO. [www.agbizkc.com/upcoming-events](http://www.agbizkc.com/upcoming-events)

**WOMEN MANAGING THE FARM CONFERENCE** Feb 14-16th <http://womenmanagingthefarm.com>



### HAVE SOMETHING TO SELL?

IF YOU WANT TO ADVERTISE FARM EQUIPMENT OR FARM RELATED ITEMS YOU MAY DO SO FREE OF CHARGE. DEADLINE IS THE LAST DAY OF EACH MONTH. SEND YOUR AD TO

[SUSANNAH.MCGINN@PLANTPIONEER.COM](mailto:SUSANNAH.MCGINN@PLANTPIONEER.COM)

**AGRI-PRODUCTS 500 GALLON SADDLE TANKS** FOR 8000 SERIES TRACTOR \$1500 OBO. 316-284-1935.

**BERKELEY 8X6 PUMP** w/trailer. \$1000. 316-772-0147

**1200 FEET OF GATED 8" PVC PIPE.** 620-386-0569

**WESTERN LAND ROLLER TAILWATER PUMP.** SINGLE PHASE MOTOR 5 HP. 316-650-2678

**IRRIGATION GEAR HEAD 6-5 RATIO.** 620-386-0569  
**PRECISION PLANTING PARTS**—Call Mike for pricing on parts. 316-772-7171





## A NEW ERA IN SOYBEAN PERFORMANCE

Pioneer® brand Z-Series Soybeans – a new class of soybean genetics, that's in a class of its own. Our soybean research consistently leads the industry with cutting-edge innovation and years of comprehensive testing to bring farmers top-end performance.

### Z-SERIES SOYBEANS ZONE OF SUCCESS

#### MORE YIELD

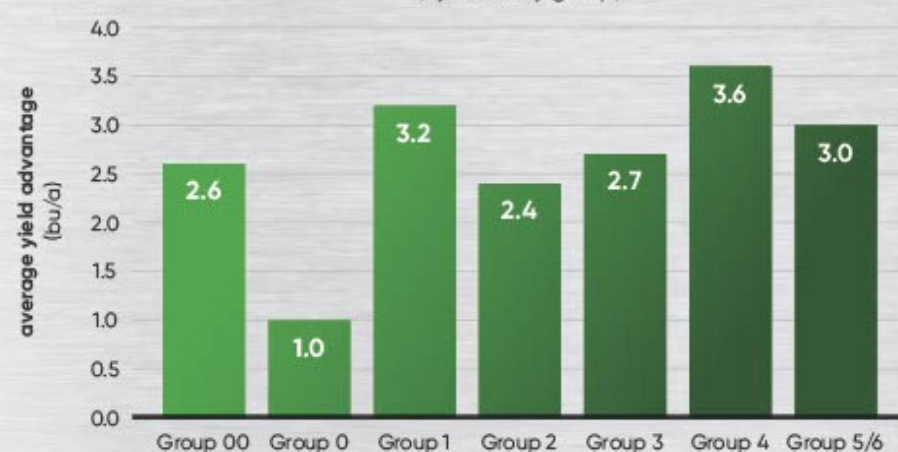
Exclusive varieties delivering breakthrough genetic gains and unleashing game-changing yields.

**Plant the leader!**

**2.7** bu/a yield advantage  
vs. current A-Series Soybeans

Additional **\$35.00** /per acre  
return on investment

Average Z-Series Soybeans yield advantage over A-Series Soybeans  
(by maturity group)



#### MORE CONSISTENT AGRONOMICS & ENHANCED DISEASE PROTECTION

Bred for offensively strong defensive traits. Nearly 10,000 IMPACT™ and on-farm local trials from 2020-2023 to rigorously test varieties under various conditions so they can thrive in every grower's unique local conditions.

Increased scores in Sudden Death Syndrome (SDS), white mold, iron deficiency chlorosis and lodging resistance over current varieties.

Lodging Resistance

0.3

SDS

0.5

Iron Chlorosis

0.5

White Mold

0.6

**13**

new varieties with Peking Source SCN resistance for increased SCN resistance management.

#### EXCLUSIVE, SUPERIOR GENETICS

Over 50 varieties in Group 00 to Group 6. 100% exclusive! Only in a Pioneer soybean bag. Varieties with the leading soybean trait technology, Enlist E3® soybeans.



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"We don't look for one hit wonders. We look for stability and yield performance across a wide area."

— Les Kuhlman, Soybean Breeder

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# ACHIEVING 100 BU/ACRE YIELDS IN SOYBEANS

BY MARK JESCHKE, PH. D, AGRONOMY MANAGER

## Increasing Yields in Soybeans

- Improvements in genetics and management have driven substantial gains in soybean yields in the U.S. over the past 50 years, at a rate of 0.48 bu/acre/year.
- U.S. average soybean yields topped 50 bu/acre for the first time in 2016 and again in 2018.
- 100 bu/acre has often served as a target yield level for farmers seeking to see how high they can push yields with optimized management and the newest genetics.
- Across all of the on-farm genetic and agronomic trials Pioneer conducts each year in the U.S. and Canada, it has not been unusual for a few entries each year to top 100 bu/acre.
- In 2018 however, the number of plots exceeding 100 bu/acre increased dramatically. The majority of these plots were planted to new Pioneer®brand A-Series soybean varieties

## Pioneer On-Farm Trial Results

- A total of 101 on-farm soybean trial entries exceeded 100 bu/acre in 2018, 84 of which were planted to A-Series soybean varieties .
- 100 bu/acre was achieved with 35 different Pioneer brand varieties from maturity group 2.3 to 5.2
- Yields over 100 bu/acre were achieved over a relatively wide geography from 2013 to 2018 including 17 U.S. states and 2 Canadian provinces

## Agronomic Practices

- 100 bu/acre yields were achieved in a range of different environments and with a range of different agronomic practices.
- Analyses of management practices used in yield contest winners in other crops have produced similar findings (Jeschke, 2019), indicating that there is no single one-size-fits-all formula for achieving high yield potential.

## Previous Crop

- The vast majority of 100 bu/acre plots were planted to corn the prior season –155 of 168 –while 9 were planted to soybeans and 4 to another crop.

## Tillage

- The most common tillage system used at locations with 100 bu/acre plots was conventional tillage, followed by no-till.

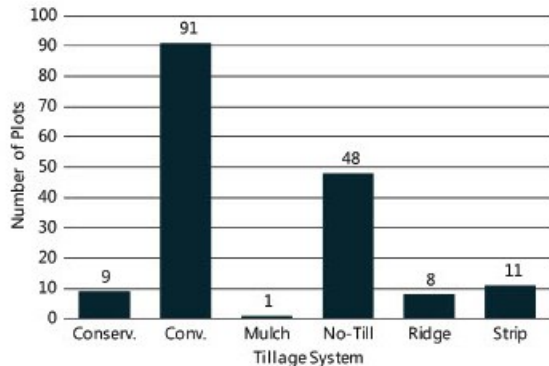


Figure 3. Tillage practices used in Pioneer on-farm trials with entries exceeding 100 bu/acre, 2013-2018.

## Seeding Rate

- Seeding rates used in plots yielding above 100 bu/acre ranged from 110,000 seeds/acre to 200,000 seeds/acre, with an average of 157,000 seeds/acre.
- Average seeding rate was slightly higher among no-till locations (159,000 seeds/acre) than conventional till locations (152,000 seeds/

acre).

- Seeding rates differed among the four states with the most 100 bu/acre plots:

⇒

The average seeding rate across Illinois and Indiana locations was 149,000 seeds/acre. The average seeding rate across Kansas and Nebraska locations was 170,000 seeds/acre

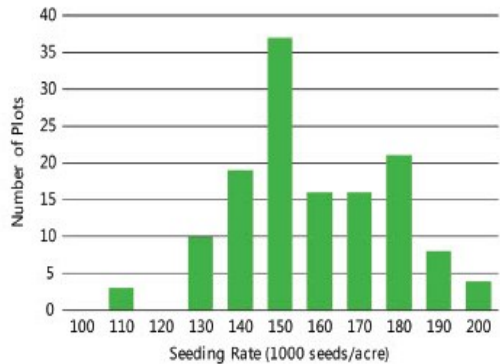


Figure 4. Seeding rate used in Pioneer on-farm trials with entries exceeding 100 bu/acre, 2013-2018.

- Seeding rates in Kansas and Nebraska are similar to those documented in a larger, multi-year survey of high yield soybean production in these states, which found an average seeding rate of 174,000 seeds/acre (Propheter and Jeschke, 2017).

## Row Spacing

- Over half of the 100 bu/acre plots were planted in 30-inch rows with most of the rest in 15-inch rows or other narrow row configurations and a few in rows wider than 30 inches.
- Geographic distribution of row spacing practices roughly corresponded with findings of recent USDA surveys, with 30inch rows most common from Illinois west and narrower rows more common from Indiana east (Jeschke and Lutt, 2016) (data not shown).

## Planting Date

- Recent research has shown the importance of early planting for maximizing soybean yields (Van Roekel, 2019). Most trial locations with 100 bu/acre plots were planted in the latter half of April through the first half of May (Figure 6).

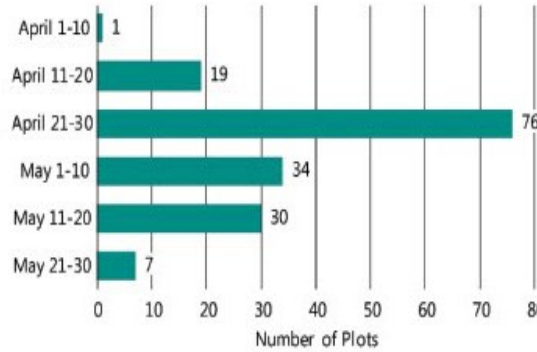


Figure 6. Planting date of Pioneer on-farm trials with entries exceeding 100 bu/acre, 2013-2018.

## Other Practices

- Other management practices employed at locations with 100 bu/acre plots included foliar fungicides, foliar insecticides and supplemental nitrogen applications.



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PIONEER SEEDS :  
GET A LOOK INTO  
PIONEER'S BREED-  
ING PROGRAM



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### BILLING QUESTIONS

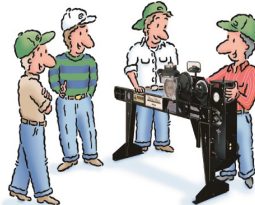
SUSANNAH MCGINN OFF. 316-772-5050  
susannah.mcginn@plantpioneer.com

## PLANTER TEST STAND

Get your meters calibrated and repaired. We have a planter test stand for checking the accuracy of vacuum, finger pickup, and Kinze brush meter units.

This is something that we suggest should be done on a planter at least every other year. Contact Mike, Tye, or Korey for details and to schedule your test. We would really like to do these this winter instead during the spring rush.

**Pricing is \$20/row before December 31st, \$25/row before March 1st and /\$30/row after March 1st.**



As we approach the end of another year, we would like to take this opportunity to say Thank You for the business that you have given to us this past year. We appreciate your loyalty and friendship that you have shared with us. We want to continue to earn the opportunity to build a lasting relationship with you.

From all of us at Wildcat Agri-Services we want to wish everyone a Merry Christmas and a happy, healthy, and prosperous 2024!

