

# Pioneering Our Way Back into the US Canola Industry

Kristie Sundeen – Field Agronomist – NE ND & NW MN Dec. 10, 2019





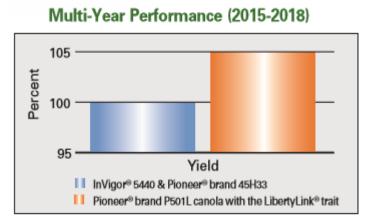




## **Pioneer's First Hybrid for the Liberty-Link Canola Market!**

- Outstanding Yield Potential
- Very good for Lodging
- Liberty Link Trait and Clubroot (CR1) Trait Pkg.
- Maturity 5 (medium-early)
- "R" for Blackleg
- Swath hybrid not suitable for Straight-Cut

## Suitability:



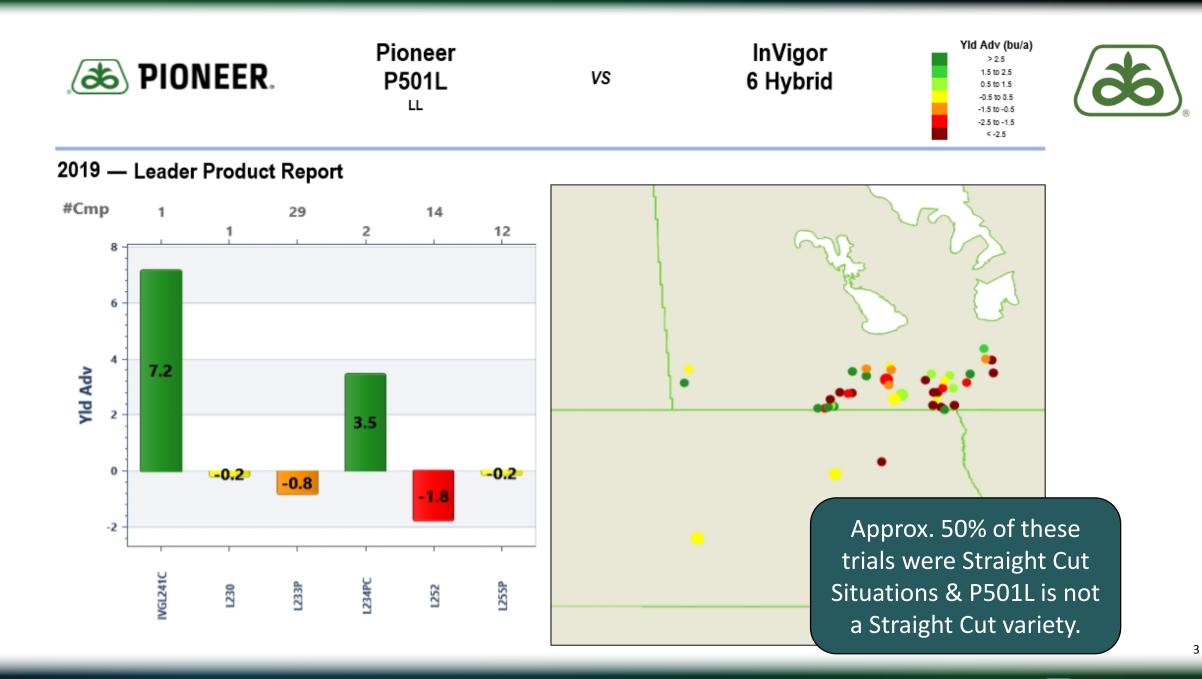
Early Planting	Highly Suitable
Delayed Harvest	Not Suitable
No-Till	Highly Suitable
Reduced Tillage	Highly Suitable

## **Characteristics:**

Early Growth	8
Lodging	7
Plant Height	7
Blackleg	7
Sclerotinia	1
Clubroot	8
Shatter Score	6







North Dakota and Manitoba Combined Plot Data w/out Impact Plots





## **Pioneer's First Hybrid for the Liberty-Link Canola Market!**

- Excellent Yield Potential 103% of \_
- Very good for Lodging -
- Roundup Ready, Harvest Max, and "New" Clubroot Trait Pkg. -
- Maturity 5 (medium-early)
- "R" for Blackleg
- Suitable for Straight-Cut -

## **Suitability:**

Early Planting	Highly Suitable
Delayed Harvest	Suitable
No-Till	Highly Suitable
Reduced Tillage	Highly Suitable

## **Characteristics:**

Early Growth	8
Lodging	7
Plant Height	7
Blackleg	7
Sclerotinia	NA
Clubroot	8
Shatter Score	7



## (æ) PIONEER.

#### 45CM39 vs. DKTF92-SC 2019 Yield Performance 56 54 52 Bushels/A. 50 48 46 44 Yield 45CM39 DKTF92-SC 5.7 bu/A 12 locations 2019 USA/CA Advantage

92% Winc

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Field Plots & Side

by Sides



45M35 vs. DKTF92-SC 2019 Yield Performance

> Yield ■ 45CM39 ■ DKTF92-SC

> > 10 locations 2019 USA/CA

by Sides

Field Plots & Side

## **Pioneer's First Hybrid for the Liberty-Link Canola Market!**

- Great Yield Potential
- Excellent for Lodging
- Roundup Ready and Harvest Max Trait Package.
- Maturity 5 (medium-early)
- "MR" for Blackleg
- Suitable for Straight-Cut

## Suitability:

Early Planting	Highly Suitable
Delayed Harvest	Suitable
No-Till	Highly Suitable
Reduced Tillage	Highly Suitable

## **Characteristics:**

Early Growth	8
Lodging	8
Plant Height	8
Blackleg	7
Sclerotinia	NA
Clubroot	NA
Shatter Score	7



5





100% Wins

5.1 bu/A

Advantage

54

52

50

48

# **Non-GMO Canola Offering**



### AGRONOMIC INFORMATION YIELD DATA

- Across 49 locations over the last 5 years, 46H75 has a 88% win rate against Brett Young 5525CL with an average yield advantage of 165 lbs/ac<sup>1</sup>.
- Across 9 locations over the last 5 years, 46H75 has a 78% win rate against Brett Young 5535CL with an average yield advantage of 195 lbs/ac<sup>1</sup>.

### AGRONOMIC TRAITS

- Late Group maturity hybrid
- · Consistently high yield performer
- Outstanding standability and harvestability for swath and combine harvest
- Best practice Clearfield weed management strategies would include Treflan<sup>™</sup> or Sonalan<sup>™</sup> pre-emerge followed by Beyond<sup>™</sup> plus Stinger<sup>™</sup> post-emerge

### DISEASE RESISTANCE

Resistant to blackleg

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### AGRONOMIC INFORMATION YIELD DATA

 In 32 comparisons across the last 5 years, 45H76 has 75% win rate against Brett Young 5525CL with an average yield advantage of 115 lbs/ac<sup>1</sup>.

### AGRONOMIC TRAITS

- Mid-Group maturity hybrid (about 3-4 days earlier than 46H75)
- Very strong blackleg resistance for fields with heavy canola history
- Good table-top harvest presence for straightcut harvesting; manage appropriately as not a HarvestMax<sup>™</sup> hybrid
- Best practice Clearfield weed management strategies would include Treflan<sup>™</sup> or Sonalan<sup>™</sup> pre-emerge followed by Beyond<sup>™</sup> plus Stinger<sup>™</sup> post-emerge

### DISEASE RESISTANCE

Resistant to blackleg



### AGRONOMIC INFORMATION YIELD DATA

- New hybrid for the 2020 season, and will be the replacement product for 45H76 in 2021
- P502CL will be the new yield leader in the Pioneer CL segment

### AGRONOMIC TRAITS

- Mid-Group maturity hybrid
- Very good blackleg resistance rating for fields with heavy canola history
- Outstanding standability with low late-season lodging potential
- Best practice Clearfield weed management strategies include Treflan<sup>™</sup> or Sonalan<sup>™</sup> pre-emerge followed by Beyond<sup>™</sup> plus Stinger<sup>™</sup> post-emerge

### DISEASE RESISTANCE

· Resistant to blackleg









# **Clearfield (Non-GMO) Canola Trial Data**



Pioneer® Hybrid	RM	Competitor Hybrid	Number of Comparisons	% of Wins	Pioneer Yield Advantage (Bu/A)
P502CL	5	46H75	41	46%	0.0
P502CL	5	45H76	27	85%	2.2
P502CL	5	Brett Young 5545CL	39	62%	0.9
P502CL	5	Canterra CS2500CL	39	79%	2.8

Pioneer® Hybrid	RM	Competitor Hybrid	Number of Comparisons	% of Wins	Pioneer Yield Advantage (Bu/A)
46H75	6	45H76	43	53%	1.1
45H75	6	P502CL	41	51%	0.0
45H75	6	Brett Young 5545CL	44	52%	0.5
45H75	6	Canterra CS2500CL	41	71%	2.7



# **Non-GMO Canola Offering**

## CLEARFIELD® CANOLA: CONTRACTING OPPORTUNITY

Cargill/West Fargo has contracts available for identity preserved, non-GMO Clearfield<sup>®</sup> Canola. Pioneer<sup>®</sup> hybrid **45H76, 46H75** and **P502CL\*** canola seed products are eligible for participation in Cargill/West Fargo's program.

Contracting opportunities include attractive basis level opportunities and potential off-farm pick-up.

For more information on Cargill/West Fargo's program, please contact Cargill/West Fargo directly.

### **Cargill/West Fargo – Contact Information**

	OFFICE	CELL	
John Zietz	701-282-1614	701-630-0939	
Ray Albrecht	701-282-1631	701-936-5931	
Darcy Smith	701-282-1676	701-367-6707	
Jacob Downing	701-282-1636	318-418-0856	
Caraill   250 7th Ave NE   West Farao. ND 58078			











# Lumiderm

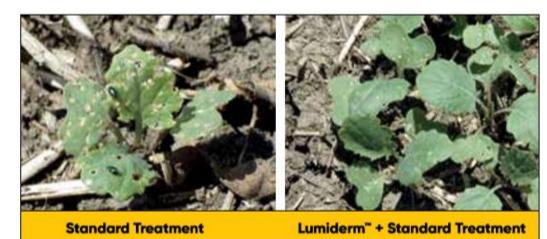
## INSECTICIDE SEED TREATMENT

## **Better Start. Better Harvest.**

Lumiderm<sup>™</sup> insecticide seed treatment provides excellent plant protection against both flea beetles and cutworms in one convenient bag.

### **Key Benefits:**

- Enhanced crucifer and striped flea beetle protection
- Excellent control of early season cutworms
- Excellent early season seedling stand establishment, vigour and biomass
- Up to 35 days of protection through the critical stages of seedling growth
- Novel class of chemistry (Group 28) for resistance management



Source: Lumsden, SK. 22 Days After Seeding.



**Crucifer Flea Beetle** 

**Striped Flea Beetle** 





## Lumiderm

**INSECTICIDE SEED TREATMENT** 

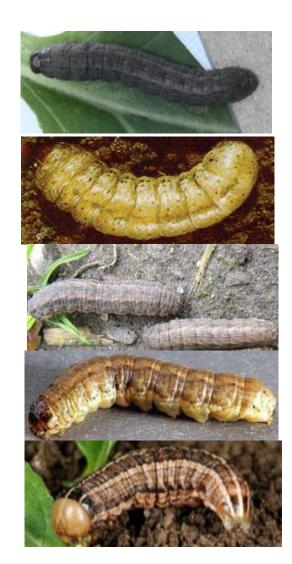
## Lumiderm<sup>™</sup> Controls all Types of Cutworms

## Peace of Mind

- Controls all species of cutworm
- Activity on both above and below ground feeders

## High Risk Fields for Cutworm

- Fields that had flowering weeds in August or September
- Pea / Lentil / Hemp fields / Alfalfa (??)
- Tight canola rotations











## Flea beetle feeding

- Enhanced protection against both crucifer and striped flea beetles
  Stronger on striped flea beetles than other options
  Lumiderm stops flea beetle feeding quicker than standard seed treatment



## Reduced feeding duration = less stress on plants

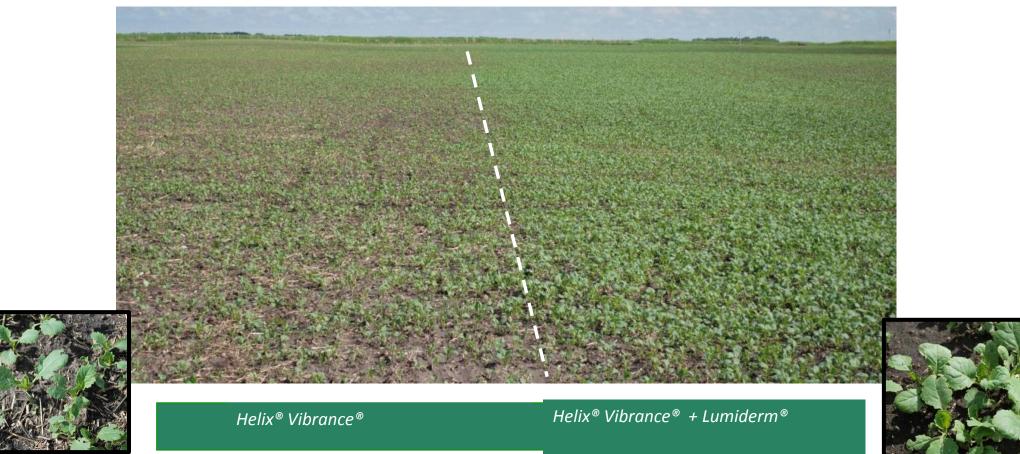






## **ENHANCED** FLEA BEETLE PROTECTION





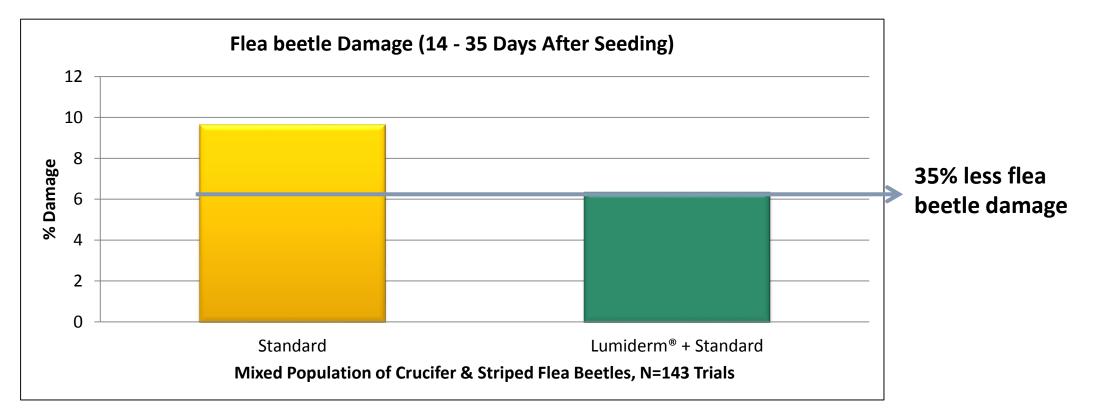








# WHAT DOES "Enhanced protection against both crucifer and striped flea beetles" LOOK LIKE? Less damage per leaf.



Source: Corteva™ Research & Development (replicated) trials and Grower Demo strip trials (2010-2015)



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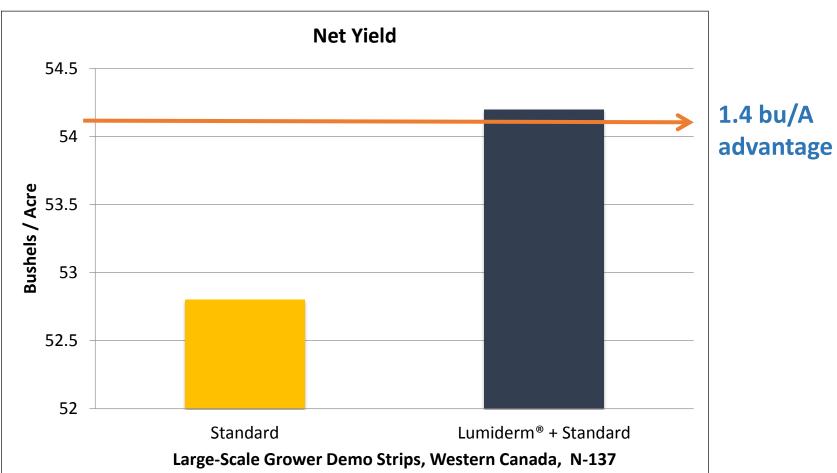
(æ) PIONEER.

# Lumiderm



## INSECTICIDE SEED TREATMENT





### Lumiderm<sup>™</sup>: Yield update 137 sites over 3 years





# Lumiderm<sup>®</sup>



P501L vs. L-233P Side by Side

- Planted on May 18, 2019.
- Pictures were taken June 5, 2019.
- The field was sprayed with insecticide for Flea Beetles on June 4, 2019.
- P501L has Helix Vibrance w/ Lumiderm Seed Treatment while the InVigor L-233P has just Prosper Evergol.

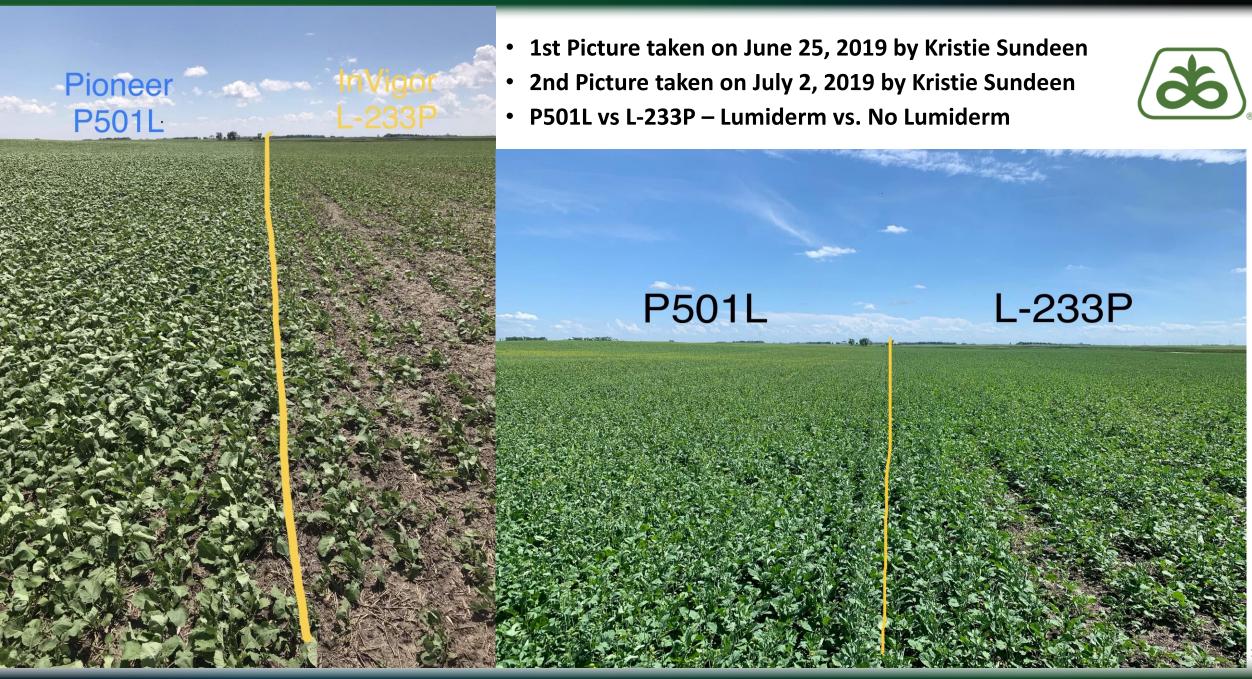






# P501L

InVigor L-233P



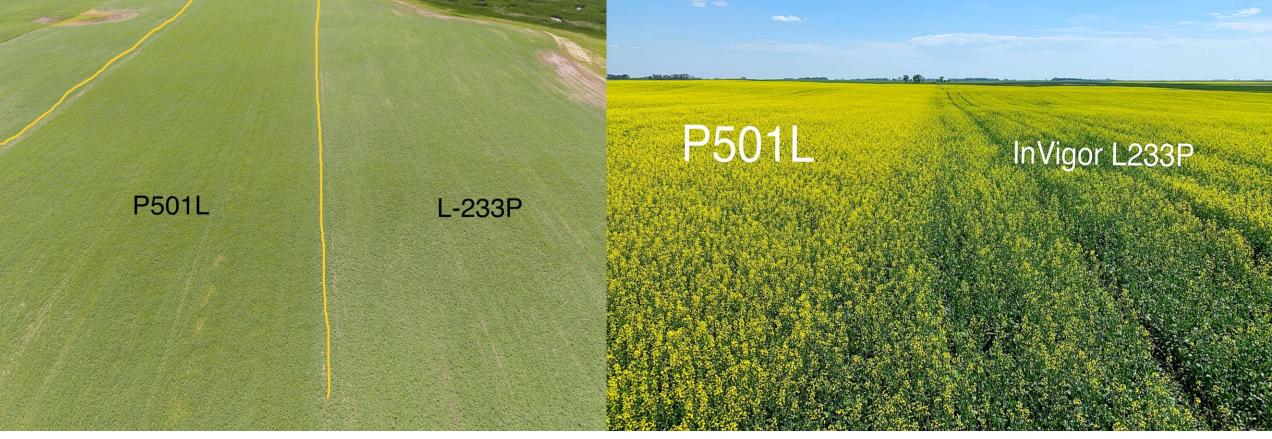






- 1st Picture taken by drone on July 3, 2019 by Zach Fore
- 2nd Picture taken on July 11, 2019 by Kristie Sundeen
- P501L vs L-233P Lumiderm vs. No Lumiderm









Lesson Learned – P501L is a hybrid better suited to the swath market.

### P501L vs L-233P – Lumiderm vs. No Lumiderm

- Desiccated August 18, 2019 w/ Roundup w/ Sharpen
- Harvested Sept. 4, 2019
  - Rain/Wind Storm Sept 1, 2019
  - Pod Shatter occurred on P501L due to storm causing about 10-15% Yield loss on P501L.
  - Yield Results
    - P501L 2078 lbs/A. Mst. 11
    - L233P 2242 lbs/A. Mst. 12.5





🙈 PIONEER.





# Any Questions? Thank You!

If Interested the best discounts on seed are available until this Friday, Dec. 13<sup>th</sup>.



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