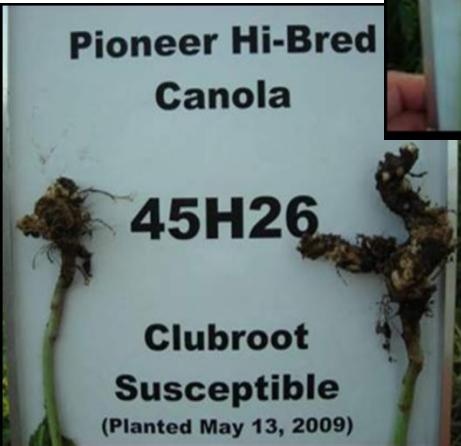
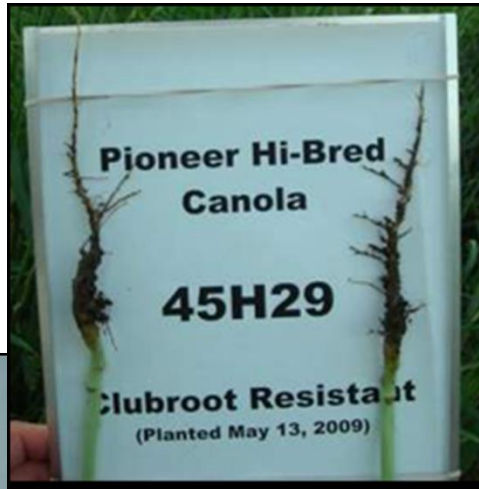


Stacking the Deck with Pioneer Canola



MN Canola Council – Dec '15
Marc Cartwright

2009 – Pioneer launches “Protector” brand canola!





What we do is in our name.



DuPont Pioneer is the first company to offer hybrids with resistance to the two most economically significant diseases in canola – sclerotinia and clubroot. Now for your 2016 crop, we're introducing high-yielding canola hybrids with two new traits – to further protect your yields and your peace of mind.

Pioneer Protector® Plus hybrids are the first and only canola hybrids with built-in resistance to both sclerotinia and clubroot.



Pioneer Protector® Plus. Unlike standard canola hybrids, Pioneer Protector® Plus canola hybrids have built-in protection against both sclerotinia and clubroot in one convenient, high-yielding package.



Pioneer Protector® HarvestMax. This is the first Pioneer Protector® brand canola hybrid with technology to reduce pod shatter. This provides a wider window at harvest so that growers have the flexibility to straight cut or delay swathing so more pods can fill. It all adds up to more seed in the bin. With less pod shatter, Pioneer Protector® HarvestMax can also reduce the potential for volunteer canola the next growing season.

Coming Soon
Fall 2016



Pioneer Protector® Plus canola hybrids

Will your canola be infected with sclerotinia or clubroot this year? Growers who plant Pioneer Protector® Plus canola hybrids are covered no matter what. Pioneer Protector® Plus canola hybrids are the first hybrids with built-in disease protection from both sclerotinia and clubroot, in one convenient, high-yielding package.

Pioneer Protector® Plus canola hybrids deliver the power of Pioneer Protector® Sclerotinia and Clubroot resistance:

- **Reduced sclerotinia incidence** of over 60%.
- **High level of clubroot resistance** to the most prevalent clubroot race – race 3 – along with resistance to races 2, 5, 6 and 8.
- **Maximum yield potential**, convenience, confidence and peace of mind.
- **Season-long control** - your plants may not mature at the same time throughout the field, but your built-in sclerotinia protection will last in every plant until you are ready to harvest.

Canola Trait Stacks are Here!



45CS40

Yield, Protector Clubroot, Protector Sclerotinia and Blackleg in one package

Key Benefits

- Stacked traits - Protector Clubroot & Sclerotinia
- Glyphosate herbicide system – most economical weed control program in canola
- 5M-L for maturity
- Improved standability
- Excellent early growth
- “R” for blackleg (very similar to 45H29)
- “R” for Fusarium Wilt

- Low to Moderate supplies for 2016 planting





NEW Pioneer Protector® HarvestMax



There are always lots of questions on your mind at harvest.

- Do you wait, holding out for more yield?
- Do you swath sooner, to avoid shatter and pod drop?
- Should you swath the crop or straight-cut it for best quality and yield?

The NEW Protector® HarvestMax canola hybrid makes your harvest decision-making simpler and less risky. It's the first-ever Genuity® Roundup Ready® canola hybrid with built-in resistance to pod shatter and pod drop.



Pioneer® hybrid 46M34 is the **NEW** canola hybrid with the Pioneer Protector® HarvestMax trait, with strong seed pods for reduction of seed losses at harvest.

Photo courtesy of DuPont Pioneer, 2014.

Consider these agronomic benefits, and how they translate into bushels and dollars at harvest time.

- **Swathing later.** A Pioneer Protector® HarvestMax canola hybrid may allow for a later swath timing, giving a wider window of swathing and harvesting. In fields with uneven emergence, you can leave your crop until it's ready to harvest.
- **Straight-cut option.** On many farms, straight-cutting makes great sense. Pioneer® hybrid 46M34 with the built-in Pioneer Protector® HarvestMax trait will help reduce the incidence of pod shatter and pod drop, making straight-cutting a more practical option. Pioneer® hybrid 46M34 has been developed with multiple sources of pod shatter resistance traits, to reduce pod shatter and pod drop.
- **Reduced shatter.** Typical yield losses from shattering can exceed 30% in extreme conditions in a delayed harvest situation. However, shatter losses in canola typically range between 2-10% in swathed or delayed harvest situations.* Less shatter gives you more seed in the bin. For every 100 seeds per foot that don't hit the ground, you get 1 bu/ac of extra yield to increase your revenue.
- **Reduced volunteers.** When pod shatter puts seeds on the ground, those seeds return the following year as volunteer canola. Less shatter translates into easier weed control the following year.

*Canola shatter information is from the Indian Head Agricultural Research Foundation research report (Holzapfel, 2013) and Price et al., 1996 – J. of Agric Engng Res. 65,183-191.



Pioneer® hybrid 46M34 in a Proving Ground™ trial near Lloydminster, AB

Photo courtesy of DuPont Pioneer, August 2014.

Pioneer® hybrid 46M34 with the Pioneer Protector® HarvestMax trait is the FIRST and ONLY Genuity® Roundup Ready® canola hybrid with resistance to pod shatter and pod drop, to reduce harvest risk and maximize yields.

46M34



Yield, Standability and Harvest Flexibility in one package

Pioneer® hybrid 46M34, a new canola hybrid for growers looking for superior yields with built-in the Pioneer Protector® HarvestMax.

Key Benefits

- 6E for maturity
- Very good Standability
- Excellent yield potential
- Excellent early growth
- “MR” for blackleg
- “R” for Fusarium Wilt



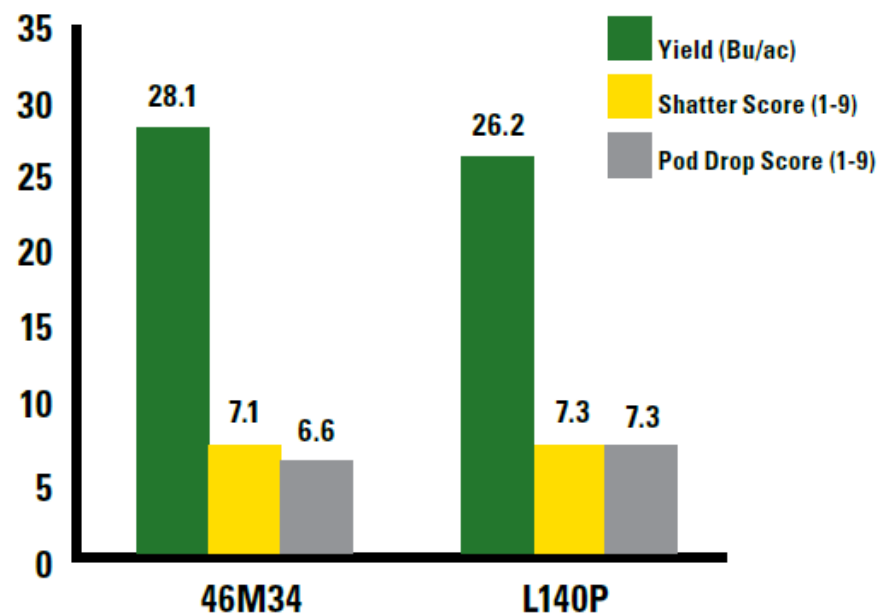
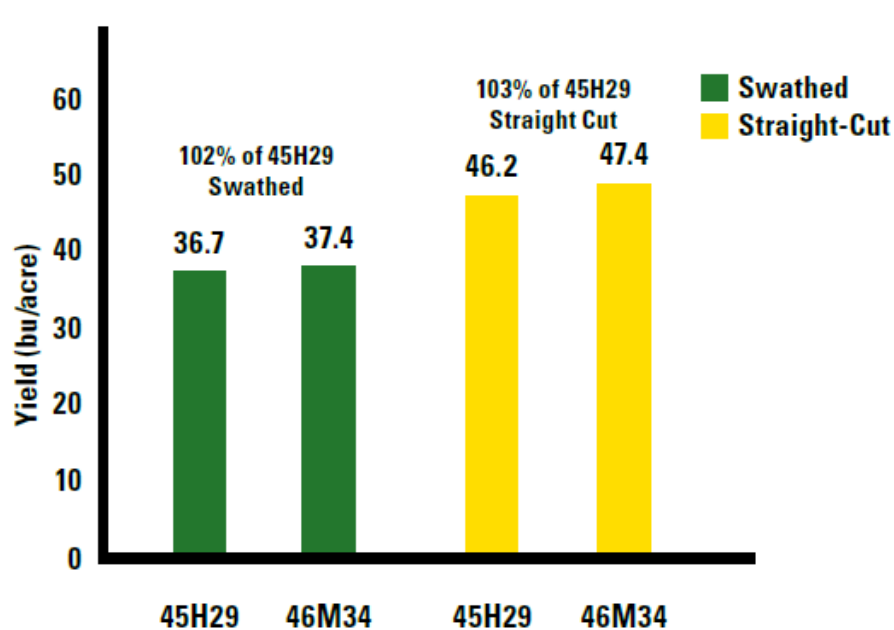
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How does Pioneer® hybrid 46M34 compare to the competition?

Across the board, a canola hybrid with the Pioneer Protector® HarvestMax trait provides improvements in yield, shatter resistance, and pod drop, compared to a competitive canola hybrid.



Canola yield data average from large-scale, grower managed field trials across Western Canada in 2014. Product responses are variable and subject to any number of environmental, disease and pest pressures. Individual results may vary. Multi-year and multi-location data are a better predictor of future performance. Do not use this or any other data from a limited number of trials as a significant factor in product selection. Refer to pioneer.com/yield or contact your local Pioneer Hi-Bred sales representative for the latest and complete listing of trials and scores for each Pioneer® brand product.

**Look for the Pioneer Protector® logo on high-performing canola hybrids this season.
It's a symbol of canola seed traits that protect your yield and your business.**

For more information, speak with your local Pioneer Hi-Bred sales representative or visit pioneer.com/Canada.

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2014 Performance Data

13N0924R*



Yield, Standability and Harvest Flexibility in one package

Pioneer® hybrid 46M34, a new canola hybrid for growers looking for superior yields with built-in the Pioneer Protector® HarvestMax.

Key Benefits of 0924R*

- 5L for maturity
- Very good Standability
- Exceptional yield potential
- Excellent early growth
- “MR” for blackleg
- “R” for Fusarium Wilt
- Very small supplies for 2016



* Pending Registration

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Lethbridge, AB – Canola seed production facility and seed production research

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Georgetown, ON – Worldwide canola breeding HQ and parent seed facility for Pioneer





Thank You
Questions?