LEPIDOPTERAN PROTECTION II

THE GOAL OF THE DUPONT PIONEER PROGRAM FOR PIONEER® BRAND SOYBEAN VARIETIES WITH LEPIDOPTERAN PROTECTION is to provide durable efficacy against above-ground Lepidopteran pests including the velvetbean caterpillar, soybean looper, and corn earworm (soybean podworm). In addition, Pioneer has a robust pipeline for insect protection traits to provide the long term reliability our customers’ desire.

R&D PIPELINE PHASE

- **PHASE 2**
  - **EARLY DEVELOPMENT**
    - Pioneer researchers are continuing to characterize and evaluate new leads.

**GROWER VALUE**  HARVESTABLE YIELD + INPUT COST CONTROL + RISK MANAGEMENT

ANTICIPATING NEEDS / If left untreated, soybean fields in the southern U.S. and Brazil can experience yield losses and significant damage due to defoliation and pod feeding. This can result in complete loss of leaves and damage to the stem and buds. Pioneer soybeans with Lepidopteran resistance will help growers manage the insect populations on their farms, reduce or eliminate the need for pesticide applications, and improve farmer profitability from the increase in yield.

DELIVERING SOLUTIONS / Researchers at Pioneer are testing new genes and gene combinations to provide a product with multiple, novel modes of action against these key pests. Utilizing biotech approaches, these gene products are expressed throughout the plant and provide protection against overlapping generations of insects during the entire growing season. Currently, Pioneer utilizes DuPont™ Dermacor™ insecticide seed treatment as an additional mode of protection against lepidopteran pests in Latin America. Future lepidopteran protection products will continue to utilize leading biotech traits in combination with advanced seed treatments to enhance the durability and longevity of the product solutions available to growers around the world.

Pioneer® brand hybrids with increased oil and improved feed efficiency will not be offered for sale or distribution until completion of field testing and applicable regulatory reviews.

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