Active Ingredients

*Bacillus thuringiensis* Cry1F protein and the genetic material (plasmid insert PHI8999A) necessary for its production in corn event DAS-Ø15Ø7-1 ..................................................... <0.0017%*

*Bacillus thuringiensis* Cry1Ab protein and the genetic material (vector PV-ZMBK07) necessary for its production in corn event MON-ØØ81Ø-6 ................................................... <0.0013%*

*Bacillus thuringiensis* Vip3Aa20 protein and the genetic material (via elements of pNOV1300) necessary for its production in corn event SYN-IR162-4 ........................................................... <0.02%*

Inert Ingredients

Phosphinothricin acetyltransferase (PAT) protein and the genetic material (plasmid insert PHI8999A) necessary for its production in corn events DAS-Ø15Ø7-1 ..................................................... <0.00046%*

Phosphomannose isomerase (PMI) protein and the genetic material (via elements of pNOV1300) necessary for its production in corn event SYN-IR162-4 ........................................................... <0.00048%*

* Percentage (wt/wt) on a dry wt. basis for whole plant (forage).

KEEP OUT OF REACH OF CHILDREN

CAUTION

NET CONTENTS ________________

EPA REGISTRATION NUMBER: 29964-19

EPA ESTABLISHMENT NUMBER: 029964-IA-001

Pioneer Hi-Bred International, Inc.
7300 NW 62nd Avenue
Johnston, IA 50131
DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

The plant-incorporated protectant must be used as specified in the terms and conditions of the registration.

This plant-incorporated protectant (PIP) may be combined through conventional breeding with other registered plant-incorporated protectants that are similarly approved for use in combination, through conventional breeding, with other registered plant-incorporated protectants to produce inbred corn lines and hybrid corn varieties with combined pesticidal traits.

Optimum® Leptra™ combines the insect protection features of 1507xMON810 and Agrisure® Viptera (MIR162) in the same corn hybrid (inbred). Optimum® Leptra™ hybrids protect corn crops from leaf, stalk and ear damage caused by lepidopteran corn pests such as the European corn borer and other lepidopteran pests. In order to minimize the risk of the corn pests developing resistance to Optimum® Leptra™, an insect resistance management plan must be implemented.

INSECT RESISTANCE MANAGEMENT

Growers are instructed to read information on insect resistance management.

These refuge requirements do not apply to seed increase/propagation of inbred and hybrid seed corn up to a total of 20,000 acres per county and up to a combined United States (U.S.) total of 250,000 acres per plant-incorporated protectant active ingredient per registrant per year.

Corn seed bags or bag tags for products containing Optimum® Leptra™ must include the refuge size requirement in text and graphical format.

The following information regarding commercial production must be included in the grower guides for cotton and non-cotton growing areas:

Corn-Belt/Non-Cotton Growing Areas

Optimum® Leptra™ grown outside cotton-growing areas (e.g., the Corn Belt), growers must adhere to the following refuge requirements.

- Growers must plant a structured refuge of at least 5% non-\textit{Bt} corn and/or non-lepidopteran resistant \textit{Bt} corn which may be treated with insecticides as needed to control lepidopteran stalk-boring and other pests.
- Refuge planting options include: separate fields, blocks within fields (e.g., along the edges or headlands), and strips across the field.
- External refuges must be planted within 1/2 mile of the \textit{Bt} cornfield(s).
- When planting the refuge in strips across the field, refuges must be at least one (1) row wide.
- Foliar insecticide treatments for control of European corn borer, corn earworm, southwestern corn borer, fall armyworm, black cutworm, stalk borer, western bean cutworm, lesser corn stalk borer, southern corn stalk borer, sugarcane borer, beet armyworm and dingy cutworm may be applied only if economic thresholds are reached for one or more of these target pests. Economic thresholds will be determined using methods recommended by local or regional professionals (e.g., Extension Service agents, crop consultants). Microbial \textit{Bt} insecticides must not be applied to non-\textit{Bt} corn and/or non-lepidopteran resistant \textit{Bt} corn refuges.
Cotton-Growing Areas

Optimum® Leutra™ grown in cotton-growing areas:

- Growers must plant a structured refuge of 20% non-Bt corn and/or non-lepidopteran resistant Bt corn that may be treated with insecticides as needed to control lepidopteran stalk-boring and other pests.
- Refuge planting options include: separate fields, blocks within fields (e.g., along the edges or headlands), and strips across the field.
- External refuges must be planted within 1/2 mile of the Bt cornfield(s).
- When planting the refuge in strips across the field, refuges must be at least four (4) rows wide.
- Foliar insecticide treatments for control of European corn borer, corn earworm, southwestern corn borer, fall armyworm, black cutworm, stalk borer, western bean cutworm, lesser corn stalk borer, southern corn stalk borer, sugarcane borer, beet army worm and dingy cutworm may be applied only if economic thresholds are reached for one or more of these target pests. Economic thresholds will be determined using methods recommended by local or regional professionals (e.g., Extension Service agents, crop consultants). Microbial Bt insecticides must not be applied to non-Bt corn and/or non-lepidopteran resistant Bt corn refuges.
- Cotton-growing areas include the following states: Alabama, Arkansas, Georgia, Florida, Louisiana, North Carolina, Mississippi, South Carolina, Oklahoma (only the counties of Beckham, Caddo, Comanche, Custer, Greer, Harmon, Jackson, Kay, Kiowa, Tillman, Washita), Tennessee (only the counties of Carroll, Chester, Crockett, Dyer, Fayette, Franklin, Gibson, Hardeman, Hardin, Haywood, Lake, Lauderdale, Lincoln, Madison, Obion, Rutherford, Shelby, and Tipton), Texas (except the counties of Carson, Dallam, Hansford, Hartley, Hutchinson, Lipscomb, Moore, Ochiltree, Roberts, and Sherman), Virginia (only the counties of Dinwiddie, Franklin City, Greensville, Isle of Wight, Northampton, Southampton, Suffolk City, Surrey, Sussex) and Missouri (only the counties of Dunklin, New Madrid, Pemiscot, Scott, Stoddard).

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<thead>
<tr>
<th>Crop</th>
<th>Pests</th>
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<tbody>
<tr>
<td>Field Corn</td>
<td>black cutworm</td>
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<td>beet armyworm</td>
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<td>sugarcane borer</td>
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