

## Monsanto Dekalb Hybrids and Yieldgard Corn Technology

### #1 Dekalb Hybrids

**DK818 (Status, Features & Benefits)**

**DK9132 (new & better Dekalb hybrid for Luzon)**

**DK878 (new & better Dekalb hybrid for Mindanao)**

### #2 Yieldgard Corn Technology

**Feature**

**Yieldgard Adoption Trend (2003-2005)**

**Benefits**

## DK818

- Tried and tested for over 10 years now
- Number 1 Hybrid in Luzon (Market Share: 60%)
- National Check in Philippine Seed Board, since year 2000



## DK818

- All-Season Hybrid
- Proven consistently HIGH and STABLE Yield
- Drought tolerance
- High Shelling Recovery (80%)



## DK818

- Plant Ht. : 2.1 m
- Ear Ht : 0.9 m
- Leaves : Green, Semi-erect
- Husk Cover : Good
- Grain Color/Type : Yellow-orange, semi-flint
- Grain Filling : Very good
- Tip Filling : Excellent
- Shelling Recovery : 80-81%
- Standability : Very good (Rating: 3)
- Maturity : 105-110 DAP
- Reactions to Diseases
  - Leaf Blight : Moderately resistant
  - Rust : Moderately resistant
  - BLSB : Moderately resistant
  - BSR : Moderately resistant
  - Brown Spot : Resistant
  - Diplodia Ear Rot : Moderately resistant
  - Vivipary : Resistant

## DK9132

	DK818	DK9132
Yield (t/ha)	8.36	9.91
Yield dif (t/ha)		1.55
Yield advantage (%)		18.5
No. of Field Trials	30	30.0
No. of Wins		26
% Wins		87

Source: Monsanto Technology Development Trials, 2005


- Stable and higher yield
- 15-20% Yield advantage over existing DK818



## DK9132

- Plant Ht. : 1.9 m
- Ear Ht : 0.94 m
- Leaves : Green, erect to droopy
- Husk Cover : Good
- Grain Color/Type : Yellow-orange, semi-dent
- Grain Filling : Very good
- Tip Filling : Excellent
- Shelling Recovery : 80%
- Standability : Moderate
- Maturity : 110 DAP
- Reactions to Diseases
  - Rust : Moderately resistant
  - BLSB : Moderately resistant-susceptible
  - BSR : Moderately resistant
  - Brown Spot : Highly Resistant
  - Diplodia Ear Rot : Moderately resistant
  - Vivipary : Resistant

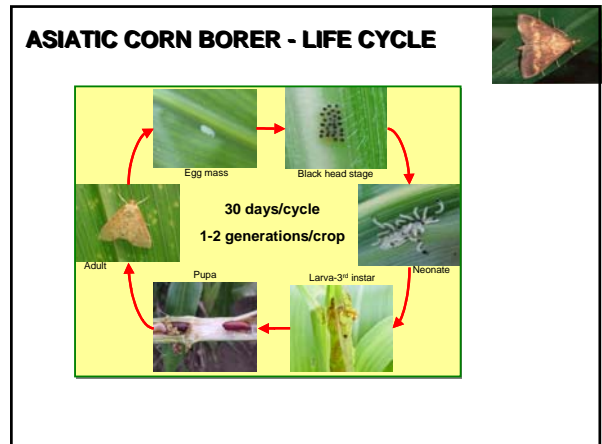
## DK878



- Stable Yield Performer across diverse growing environment in Mindanao
- Better tolerance to diseases such as ear & stalk rots and corn rust.
- All season hybrid for Mindanao

	DK878	DK9051
Yield (t/ha)	6.45	6.20
Yield dif (t/ha)		0.25
Yield advantage (%)		4.03
No. of Field Trials	27	27
No. of Wins		15
% Wins		55

Source: Monsanto Technology Development Trials, 2005



## ACB DAMAGE RESULTS TO YIELD LOSSES

### LEAF DAMAGE




Gunshot holes




- reduced photosynthesis
- reduced plant vigor
- susceptibility to leaf diseases

## ACB DAMAGE RESULTS TO YIELD LOSSES

### STALK DAMAGE



Tunneling




Borer hole


- poor translocation of water & nutrients
- reduced grain filling
- predisposition to lodging

## ACB DAMAGE RESULTS TO YIELD LOSSES

### TASSEL/EAR DAMAGE


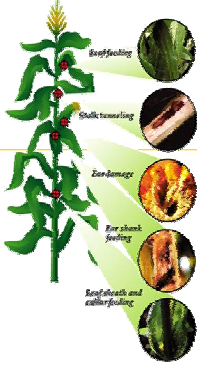


Damage to ears

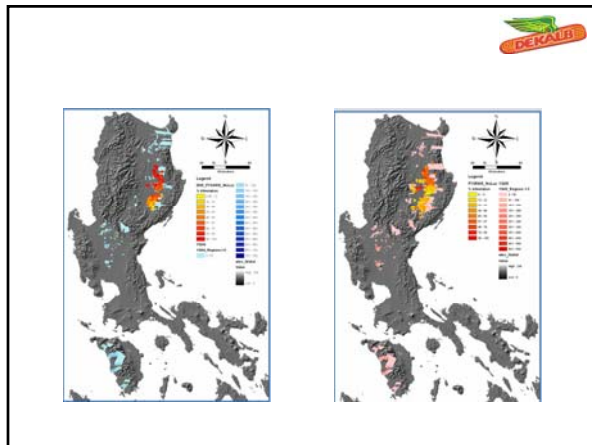
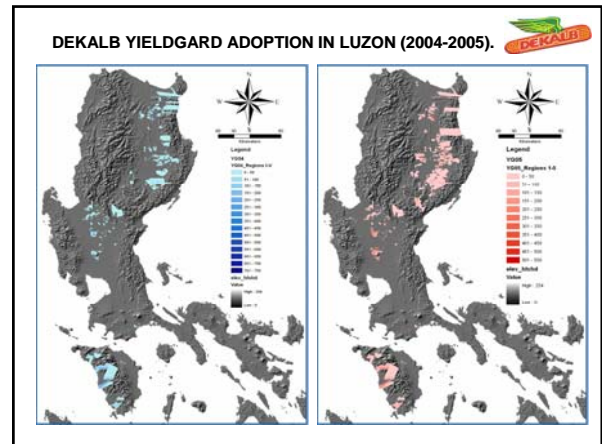
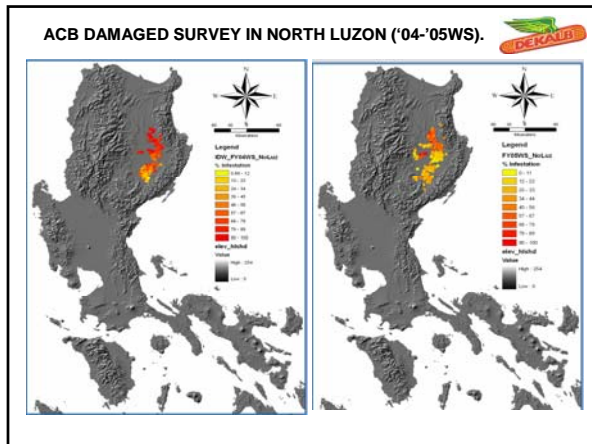


Tassel breakage

- reduced reproductive capability & seed setting
- direct grain feeding loss
- susceptibility to ear rots

- Dekalb YieldGard corn is an outstanding corn borer protection in all plant parts throughout the season



**DEKALB Yieldgard corn delivers benefits to Philippine farmers**

Commercial field comparison (2 seasons)

- ✓ Yield advantage: 800-900 kgs/ha
- ✓ Insecticide cost reduction: PhP1T/ha
- ✓ Profit advantage: PhP7-8T/ha

Yield comparison from commercial fields

Season	Hybrid	Yield (T/ha)	Advantage (%)
WS ('04)	Conven	6.1	13%
	Yieldgard	6.8	
DS ('04)	Conven	4.6	18%
	Yieldgard	5.5	

- Summary**
- Trusted Leader **DK818** hybrid for over 10 years
  - Better new high yielding **DK9132** hybrid for Luzon
  - Better new high yielding and disease tolerant **DK878** hybrid for Mindanao
  - Corn borer protected **Dekalb Yieldgard** that protects your grain yield and income!