

Bt Corn Traits in Louisiana and Their Associated Codes

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Outline

- **Corn borers in Louisiana**
- **Bt corn traits available in Louisiana and associated codes**
- **Other Bt corn traits available in the United States**

Corn Borer Species and Distribution in Louisiana

- European corn borer (ECB)
- Southwestern corn borer (SWCB)
- Sugarcane borer (SCB)

LA corn borer survey (2004 - 2007)

Year	SWCB	ECB	SCB
2004	13%	1.5%	85%
2005	44%	1%	55%
2006	11%	0.5%	89%
2007	2%	0 %	98 %
Overall	26%	1%	83%



A total of **6,469** corn borer larvae were sampled.

SCB is the dominant corn borer species across LA.

Bt corn traits currently available in Louisiana



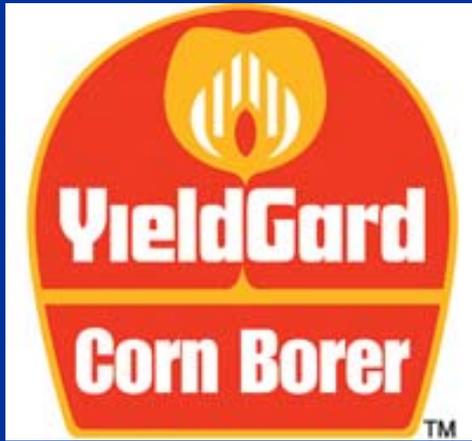


Companies: Monsanto, Syngenta

Bt protein: Cry1Ab

Targets: Sugarcane borer (SCB)
Southwestern corn borer (SWCB)
European corn borer (ECB)

Secondary targets: Corn earworm
Fall armyworm



On a bag-tag
or in a seed
catalog, how do
you recognize
this trait?

Code	Brand	Example
YGCB	DKALB Pioneer Adler	DKC 69-70 (RR2/ YGCB) 33R81 (YGCB /RR2) 8210 YGCB
BT or Bt	Croplan Dyna-Gro	731 RR/ BT ; 296RR/ Bt DG 5528 BT
Y	Belle Vigoro	1545 R Y or Belle 1533 Y V58 Y R2; V49 Y 31
CB	Adler Garst	3715 CB RR 8974 CB /LL
YG1	Garst	8295 YG1 /RR
B	Golden Acres NC+ Terral Croplan	2831RR B NC+ 5402 RB TV25 B R23 8221 RB



Ric Bessin



Ric Bessin



Joe Koyach

Companies: Dow AgroScience, Pioneer-Hi-Bred
Bt protein: Cry1F
Targets: SCB, SWCB, ECB, (black) cutworm,
fall armyworm
Secondary targets: Corn earworm

On a bag-tag or in a seed catalog,
how do you recognize this trait?



Code	Brand	Example
HX	Croplan Genetics	731 HX /LL
	Adler	3660 HX LLRR
	Dyna-Gro	54T42RR/ HX
	Garst	8624 HX /LL
HX1	Pioneer	31G71 (HX1 /LL/RR2)
H	Vigoro	V50 H 71
	NC+	NC+ 5555 HL
	Golden Acres	2821RL H

Other Bt corn traits available in the US and their associated codes



HERCULEX[®] RW
Rootworm Protection



HERCULEX[®] XTRA
Insect Protection



Note: The species of corn rootworms that damages corn in Louisiana is the southern corn rootworm (or called 12-spotted cucumber beetle). All currently available Bt corn varieties are not very effective against this species.



Final Thoughts



- Know your transgenic traits
- Who sells what?
- What will the trait do?
- What won't the trait do?
- Special requirements (refuge size, 50%)
- Logos, Logos, & More Logos
- Too many acronyms!
- Keep good planting records
- If you see something unusual, contact Company/University personnel ASAP