Speaking Biotech

There are several terms are used in the seed industry, which identify Trait-Events. It is helpful if all those involved understand the differences in the terms. Please encourage your staff to use the **"Trait - Event"** format when requesting tests and referencing hybrid traits to assure the correct tests are conducted.

- Trait a characteristic of an organism, which manifests itself in the phenotype (physically). In the use of a trait, it may be developed through a transgene (a package of genetic material (DNA) that is inserted into the genome of a cell via gene splicing technique or through other breeding methods. The same trait may be produced by different events and may need to be tested in a different manner.
- Event each instance of a genetically engineered organism. This can be thought of as similar to a Latin name for plant species.
- Brand a trademark that is used to market a product, such as YieldGard[®], VT[®], Herculex[®], Agrisure[®], etc.

Below is a table of several corn biotechnology traits events along with a description of the brand, trait description, and protein expressed.

<u> Trait - Event</u>	Brand, Description and protein expressed
CB - Bt11	Agrisure [™] Corn Borer, marketed as YieldGard [®] , cry1Ab/Ac
CB - Mon810	YieldGard [®] Corn Borer, cry1Ab/Ac
CB -TC1507	Herculex [®] (HX) Corn Borer, cry1f
RW - Mon863	YieldGard [®] Corn Rootworm, cry3Bb1
RW- Mon 88017	YieldGard $^{\ensuremath{ extsf{w}}}$ VT, RW trait portion, inbred denotation is CCR, cry3Bb1
RW- DAS 59122-7	Herculex [®] (HX) Corn Rootworm, cry34Ab1/cry35Ab1
RW – MIR604	Agrisure™ Rootworm, mcry3A
GT - NK603	RR trait for corn, Glyphosate tolerance, CP4EPSPS RR trait portion of YieldGard [®] VT, inbred denotation is CCR, Glyphosate tolerance,
GT- Mon 88017	CP4EPSPS
GT - GA21	Agrisure™ GT, Glyphosate tolerance (GT), EPSPS
LL - T25	Liberty Link (LL) trait for corn, Glufosinate tolerance, pat
LL – DAS59122-7	LL trait portion of HX RW, Glufosinate tolerance, pat
LL-TC1507	LL trait portion of HX CB, Glufosinate tolerance, pat
LL-Bt11 Definitions from Nill, Company.	LL trait portion of Agrisure CB, Glufosinate tolerance, pat Kimball R. 1998. Glossary of Biotechnology Terms, Technomic Publishing

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