| **Table 3. Bt Corn Products for 2015 in the Southeastern U.S. (updated October 13, 2014).** |  |
| --- | --- |
|  |  | **———————Amount of Insect Control 1———————** |  |  |  |
| **Product Trade Name (Abbreviation)** | **Bt protein(s)** | **CornEar-worm (ear)** | **Fall Army-worm(whorl)** | **Corn Borers2(stalk)** | **BlackCutworm (seed-ling)** | **LCB3(seed-ling)** | **Corn root-worm4 (roots)** | **Herbi-cideToler-ance5** | **Required refuge in the South6** | **Event(s)** |
|  |  | **———————Aboveground———————** | **In soil** |  |  |  |
| **Agrisure Products**  |
| Agrisure 3011 | Cry1Ab mCry3A | F | F-G | E | P | G | F-G | GT LL | 50% | Bt11, MIR604, GA21 |
| Agrisure Viptera 3110 | Vip3Aa20 Cry1Ab | E | E | E | G | G | — | GT LL | 20% | MIR162, Bt11, GA21 |
| Agrisure Viptera 3111 | Vip3Aa20 Cry1Ab mCry3A | E | E | E | G | G | F-G | GT LL | 20% | MIR162, Bt11, MIR604, GA21  |
| Agrisure Viptera 3220 | Vip3Aa20 Cry1Ab Cry1F  | E | E | E | VG | VG | — | GT LL | 20% | MIR162, Bt11, TC 1507, GA21 |
| **Herculex and Optimum Products** |
| Herculex I (HX1or HR) | Cry1F | P | G-VG7 | E | G | G | — | LL | 50% | TC 1507 |
| Optimum Intrasect (YHR) | Cry1F Cry1Ab | F-G | VG | E | VG | VG | -- | LL RR2 | 20% | TC 1507, MON810 |
| Optimum Intrasect XTRA (YXR) | Cry1F Cry1AbCry34Ab1/Cry35Ab1 | F-G | VG | E | VG | VG | E | LL RR2 | 20% | TC 1507, MON810, DAS-59122-7 |
| Optimum Leptra (VYHR) | Cry1F Cry1Ab Vip3Aa20 | E | E | E | VG | VG | — | LL RR2 | 20% | TC 1507, MON810, MIR162  |
| **YieldGard Products** |
| YieldGard Corn Borer (YGCB) | Cry1Ab | F | F-G | E | P | G | — | — | 50% | MON810 |
| YieldGard VT Triple (VT3) | Cry1Ab Cry3Bb1 | F | F-G | E | P | G | VG | RR2 | 50% | MON810, MON88017 |
| **Genuity/SmartStax/POWERCORE Products** |
| Genuity VT Double PRO (GENVT2P) | Cry1A.105 Cry2Ab2 | G-VG | E | E | P | VG | — | RR2 | 20% | MON89034, NK603 |
| Genuity VT Triple PRO (GENVT3P) | Cry1A.105 Cry2Ab2 Cry3Bb1 | G-VG | E | E | P | VG | VG | RR2 | 20% | MON89034, MON88017 |
| POWERCORE | Cry1A.105 Cry2Ab2 Cry1F | VG | E | E | G | VG | — | LL RR2 | 20% | MON89034, TC 1507, NK603 |
| SmartStax (SSX, Dow) or Genuity SmartStax (GENSS, Monsanto)  | Cry1A.105 Cry2Ab2 Cry1F Cry3Bb1 Cry34Ab1/Cry35Ab1 | VG | E | E | G | VG | E | LL RR2 | 20% | MON89034, TC 1507, MON88017, DAS-59122-7 |
| 1 E = excellent, VG = very good, G = good, F = fair, P = poor. Excellent usually means better than 95 percent control. Poor means less than about 30% control 2 Southwestern corn borer, European corn borer, and sugarcane borer, and others. 3 Lepidopteran Bt traits do not specifically list lesser cornstalk borer (LCB) as a target pest. 4 Bt rootwom traits target western corn rootworm larvae (CRW), which occurs in areas such as north Alabama and north Georgia. These traits are not effective against southern corn rootworm.5 GT = Glyphosate tolerant; LL= Liberty Link (glufosinate tolerant); RR2= Roundup Ready 2 (glyphosate tolerant) 6 See product Insect Resistance Management (IRM) documentation from the seed companies for more details. 7Resistance to Cry1F has been reported in some areas of the Southeast. Adapted from D. Buntin and K. Flanders, 2014, Bt Corn Products for the Southeastern United States. Based on input from the Southern Corn Insect Working Group and the Southern Row Crop Insects Group. |