Corn Seed Treatments and Their Relative Efficacy for Control of Seedling Insect Pests in Field Corn. Updated 10/13/2014. Table courtesy of Kathy Flanders, Auburn University.

Insecticide	Rate	Relative Efficacy of the Seed Treatment[1]											
		Corn Billbug	White Grubs	Wire-worms	Seedcorn Maggot	Cutworm[2]	Sugar-cane Beetle	Southern Green Stink bug	Brown Stink bug	Chinch Bug	Southern Corn Rootworm[2]	Western Corn Rootworm	Lesser Cornstalk Borer
Active Ingredient (a.i.): clothianidin													
PONCHO 250 or ACCELERON [3]	0.25 mg a.i./kernel	NL	F	G	G	P-F	F	F	NL	G	E	NL	G, NL
PONCHO 500 or ACCELERON with PONCHO VOTiVO 500 [4]	0.50 mg a.i./kernel	F	E	G	E	P-F	G	G	NL	G-E	E	P, NL	G, NL
PONCHO 1250, ACCELERON with PONCHO VOTiVO 1250, or PONCHO VOTiVO [4]	1.25 mg a.i./kernel	G	E	E	E	F-G	G	G	G, NL	E	E	F-G	E, NL
Active Ingredient (a.i.): thiamethoxam													
CRUISER MAXX 250 [3]	0.25 mg a.i./kernel	NL	F	G	E	P	P	P	NL	F	G-E, NL	NL	G, NL
PPST 250 [6]	0.25 mg a.i./kernel	NL, F	F	G	E	P	P	P	NL	F	G-E, NL	NL	G, NL
CRUISER MAXX 500 [3] or AVICTA COMPLETE CORN [4]	0.50 mg a.i./kernel	NL	G	G	E	P	F	F	NL	F	E	NL	G, NL
CRUISER MAXX 1250 [3]	1.25 mg a.i./kernel	G	E	E	E	F	F	G	NL	G	E	P	E, NL
Active Ingredients (a.i.):thiamethoxam + chlorantraniliprole (Rynaxypyr)													
PPST 250 PLUS LUMIVIA[3]	0.25 mg a.i.+0.25 mg a.i./kernel	E	G[7]	VG[7]	E	G[7]	P	P	NL	F	G-E, NL	NL	G, NL

(Table continued on next page)

Table (continued).

Insecticide	Relative Efficacy of the Seed Treatment[1]												
	Rate	Corn Billbug	White Grubs	Wire-worms	Seedcorn Maggot	Cutworm[2]	Sugar-cane Beetle	Southern Green Stink bug	Brown Stink bug	Chinch Bug	Southern Corn Rootworm[2]	Western Corn Rootworm	Lesser Cornstalk Borer
Active Ingredient (a.i.): imidacloprid													
IMIDA E-AG 5 FST, SENATOR 600, IMIDACLOPRID 5, ATTENDANT 600	0.60 mg a.i./kernel [5]	NL	G	G	E	P, NL	P, NL	P, NL	NL	F	G, NL	NL	NL
LATITUDE [5]	3.5 oz./ hundred-weight	NL	F, NL	G	G	NL	NL	NL	NL	F, NL	G, NL	NL	NL
CONCUR [3]	1.5 oz./ 42 lb. seed	NL	F	G	G	NL	NL	NL	NL	F, NL	G, NL	NL	NL
Active Ingredient (a.i.): permethrin													
KERNEL GUARD SUPREME [3] or KICKSTART VP [3]	1.5 oz./ 42 lb. seed	NL	F, NL	P?	F	NL	NL	NL	NL	NL	NL	NL	NL

[1] E = highly effective, G = effective, F = inconsistent results, P = not effective, based on trials in the Southeastern U.S.; L = insect is on the label for this product; NL = insect is not on the label for this product. In this case it is best to assume that the product is ineffective against that particular pest, unless there is specific knowledge to the contrary about product efficacy in the Southeast.

[2]In the Southeast, several species of cutworms overwinter as medium to large-sized larvae. They may be capable of cutting considerable numbers of seedlings before they eat a lethal dose of the insecticide. Black cutworm, the cutworm that appears on the label of most of these products, has a different life cycle in which eggs are laid in the spring, so that black cutworm larvae will be small if they have hatched out by the time the corn is planted. Southern corn rootworm larvae are a seedling pest, not a mid-season pest like western corn rootworm larvae. Ratings based on input from the Southern Corn Insect Working Group who meet at the Annual Meeting of the Southeastern Branch, Entomological Society of America.

[3] Product name as marketed included fungicides.

[4]Product name as marketed included fungicides and a nematicide. AVICTA COMPLETE CORN contains abamectin; PONCHO VOTiVO contains *Bacillus firmus* I-1582.

[5] Other rates for this active ingredient are available. See label.

[6]Product name as marketed contains fungicides and a biological growth promoter.

[7]Product sell sheets state that this product provides enhanced control of white grubs, wireworms, and cutworms relative to PPST 250. Therefore efficacy ratings were increased by one level relative to PPST 250.