

**WEED CONTROL IN ROUNDUP READY (GLYPHOSATE
TOLERANT) COTTON WITH STAPLE PLUS**

Larry B. Gillham, C. Steve Williams, Alex Yang and Jon Claus

DuPont Crop Protection

Doraville, GA; Madison, MS; Memphis, TN; and Wilmington, DE

Abstract

Staple Plus is a combination package containing 6 ounces of Staple (pyrithiobac sodium) 85% soluble powder active ingredient and 15 pints of DuPont Glyphosate (glyphosate) 4 pounds active ingredient per gallon. The Staple soluble powder is packaged within a water soluble bag, which is in turn packaged within a sealed plastic cup that resides at the top of the Staple Plus container.

Staple Plus was introduced into the market channel this past season (2000) in the Southeast, Mid South and Texas with a great deal of positive response from the cotton grower community.

Staple plus combines the strengths of both Staple and Glyphosate to give improved over the top post emergence control of: pitted, entireleaf, and ivy leaf morningglory (*Ipomoea* spp.); hemp sesbania (*Sesbania exaltata*); yellow nutsedge (*Cyperus esculentus*) and prickly sida (*Sida spinosa*) while giving residual control of: redroot and smooth pigweed (*Amaranthus* spp.); spotted spurge (*Euphorbia maculata*); prickly sida; spurred anoda (*Anoda cristata*) and velvetleaf (*Abutilon theophrasti*) over straight glyphosate programs.

Studies in 2000 showed Staple Plus to give better control than either Staple or Roundup Ultra alone on the 12 broadleaf and grass weeds evaluated.

Staple Plus offers flexibility for weed management in cotton in use rates, timing of applications, avoidance of potential weather delays and potential reduced trips across the field.