

Soybean. (*Glycine max*).

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Pennsylvania smartweed (*Polygonum pennsylvanicum*)

Common lambsquarters (*Chenopodium album*), marestail (*Conyza canadensis*) and common ragweed (*Ambrosia artemisiifolia*), Palmer pigweed (*Amaranthus palermi*)

Applications of Spectrum, Preplant Burndown

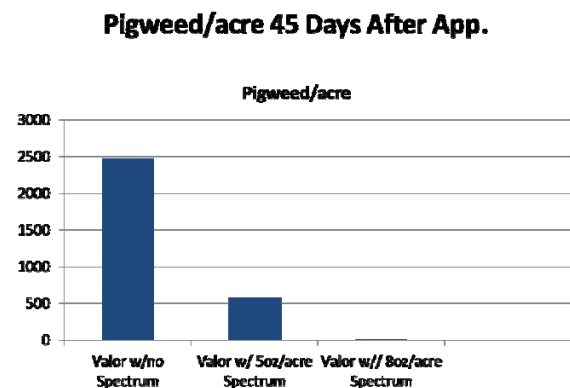
Spectrum Applied as a Spray Partner for PrePlant Burndown Weed Control in Soybean, 2011

PrePlant burndown applications of Touchdown Total® 22 oz/A + Valor® 2 oz/A + Rage D Tech™ at 1 pint/A were applied with and without Spectrum on April 13th, 2011. Spectrum was applied at either 5 or 8 oz/A. Soil type was Norfolk series. Treatments were applied in 100 x 9 ft strips and sprayed at 15 GPA. Weeds present at application were smartweed, lambsquarters, marestail and common ragweed.

Spectrum is a nonionic spray adjuvant that contains methylated seed oils and an organo-silicone based surfactant/emulsifier system. Spectrum provides penetration properties superior to crop oil concentrate with the coverage of a nonionic adjuvant.

Evaluations were made and recorded. All weeds were controlled from the initial herbicide application. However, by 15 days after treatment, the plot applied without Spectrum was starting to fail. Palmer pigweed was germinating in the Touchdown Total® + Valor® + Rage D Tech™ plot applied without Spectrum. Similar treatments with Spectrum at 5 or 8 oz/A were providing longer Palmer pigweed control. The best treatment was Touchdown Total® 22 oz/A + Valor® 2 oz/A + Rage D Tech™ at 1 pint/A mixed with 8 oz/A Spectrum. Palmer pigweeds were counted and the following numbers were plotted:

- 51 Pigweeds counted in 9ft x 100ft area where no Spectrum was used
- 12 Pigweeds counted in 9ft x 100ft area where 5oz/acre of Spectrum was used
- 0 Pigweed counted in 9ft x 100ft area where 8 oz/acre of Spectrum was used



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