

WEED MANAGEMENT PROGRAMS WITH TRIFLOXYSULFURON-SODIUM IN COTTON

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Abstract

Trifloxysulfuron-sodium, (ISO proposed name, CGA 362622), is a new sulfonylurea herbicide being developed by Syngenta for post-emergence and post-directed weed control in cotton. CGA 362622 controls a wide spectrum of broadleaf weeds, sedges and some grasses. Proposed use rates of CGA 362622, formulated as a 75 WDG, range between 0.1 – 0.25 oz/A. CGA 362622 application methods under evaluation for cotton include: 1) post-emergence over the top of cotton at lower rates within this range, and/or 2) post-directed at the higher rates. Sequential applications will be allowed, with no more than 0.4 oz/A may be applied per season. CGA 362622 will be approved for use on conventional, RR, and BXN cotton.

CGA 362622 controls many of the most troublesome weeds in cotton. Weeds controlled include: redroot pigweed (*Amaranthus retroflexus*), common cocklebur (*Xanthium strumarium*), coffee senna (*Cassia occidentalis*), sicklepod (*Senna obtusifolia*), hemp sesbania (*Sesbania exaltata*), pitted morningglory (*Ipomoea lacunosa*), and ivyleaf morningglory (*Ipomoea hederacea*). Suppression of yellow nutsedge (*Cyperus esculentus*), purple nutsedge (*Cyperus rotundus*), and seedling johnsongrass (*Sorghum halepense*), is achieved with a single application.

A program integrating glyphosate early post, followed by CGA 362622 post, followed by CGA 362622 + prometryn late post-directed or at lay-by, gives season long control of yellow nutsedge (*Cyperus esculentus*), purple nutsedge (*Cyperus rotundus*), prickly sida (*Sida spinosus*), smallflower morningglory (*Jacquemontia tamnifolia*), Florida pusley (*Richardia scabra*), smooth crabgrass (*Digitaria sanguinalis*), goosegrass (*Eleusine indica*), and broadleaf signalgrass (*Brachiaria platyphylla*), in addition to those controlled by CGA 362622 alone.