

Prickly Sida (Teaweed) Management in Soybeans



Despite its spindly appearance, prickly sida has the potential to reduce soybean yields by 5 to 10 percent. Protect yields by finding out more about this summer annual.

Prickly Sida Distribution and Biology

- Prickly sida (teaweed) is distributed throughout much of the temperate regions of the eastern two-thirds of the United States.
- Plants typically emerge in the field from April through September. Seed germination is promoted with high temperatures and enhanced when seeds are subjected to wet-dry cycles.
- Although prickly sida is not very competitive with soybeans, it has been shown to reduce yields by 5 to 10 percent when emerging at a density of 20 plants per square foot. Individual prickly sida plants can produce 1,000 seeds per plant.
- Prickly sida, which can grow up to 3 feet in height, can be identified by its relatively small, simple leaves, which are oval in shape with toothed leaf margins, alternately arranged on occasionally branched stems. The flowers are pale yellow with five petals. In the early vegetative growth stages, prickly sida might resemble hophornbeam copperleaf.



Management of Prickly Sida in Soybeans

- 1. Consider cultural practices.** Cultural practices, such as the ones listed below, can help make soybeans more competitive with prickly sida and improve the consistency of any herbicide program.
 - *These practices include altering planting date relative to weed emergence, planting soybeans in narrow rows and using higher seeding rates for greater crop competition.*
- 2. Control existing weeds at planting.** As a warm-season plant, prickly sida often does not emerge until after full-season soybeans have been planted. Burndown applications of glyphosate, glufosinate or paraquat are effective if prickly sida plants have emerged prior to planting.

Herbicide Resistance in Prickly Sida

Prickly sida with resistance to imazaquin (a Group 2 ALS-inhibiting herbicide) was reported in Georgia in 1993.

Table 1. Herbicide resistance in prickly sida has been shown in this site of action.

Group #	Group 2
Site of Action	ALS inhibitors
Product Examples	Scepter

3. Apply an effective soil-applied, pre-emergence herbicide. Many soil-applied herbicides can effectively control prickly sida.

- Apply the **full rate** of an effective soil-applied herbicide prior to or soon after soybean planting (Table 2).

Table 2. Soil-applied herbicides for good to excellent control of prickly sida.

Herbicide	Group #
Authority Elite, BroadAxe XC	14 & 15
Authority MTZ	14 & 5
Authority XL	14 & 2
Boundary	5 & 15
Canopy	2 & 5
Envide, Enlite	2 & 2 & 14
Fierce	14 & 15
Fierce XLT	2 & 14 & 15
Intimidator	5 & 14 & 15
Metribuzin	5
Prefix	14 & 15
Scepter †	2
Surveil	2 & 14
Valor SX	14
Valor XLT	2 & 14

† Biotypes resistant to imazaquin (Scepter) will not be controlled.



4. Make timely postemergence herbicide applications.

Fewer herbicide options are available for postemergence control of prickly sida. The application of postemergence treatments is often based on size with smaller prickly sida plants more susceptible. Table 3 lists postemergence herbicide options.

Table 3. Postemergence herbicide options for prickly sida control.†

Herbicide	Group #
Basagran	6
Cobra	14
Glyphosate (RR-soybean)	9
Liberty	10

† Follow label guidelines for maximum weed size and adjuvant selection for each herbicide.

5. Scout fields 10 to 14 days later for effectiveness. If prickly sida escapes initial control, a second postemergence application of herbicide can be applied. However, these are “rescue” treatments and will increase the selection pressure for the evolution of herbicide resistance.

- Weeds not controlled with a second application of the same active ingredient should be tested for herbicide resistance.

For more information and links to additional resources, visit www.TakeActionOnWeeds.com.

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