



## PLANTS

### GROWTH STAGE

VE = emergence; VC = cotyledon; V1, V2, V3, .... = vegetative nodes (plants not flowering)

R1 = beginning bloom; R2 = full bloom; R3 = beginning pod; R4 = full pod; R5 = beginning seed; R6 = full seed; R7 = beginning maturity; R8 = full maturity

### HEIGHT (In.)

Measured from the ground of the soybean plant to the upper main-stem node.

## SUGGESTED THRESHOLDS AND RATING SCALES

### STINK BUGS

From bloom (R1) to near maturity (R7), when 36 stink bugs are caught per 100 sweeps (or 1 per 1 foot of row)

### BEAN LEAF BEETLE

From bloom (R1) to near maturity (R7), when 200 beetles are caught per 100 sweeps (50 per 25 sweeps)

### THREECORNERED ALFALFA HOPPERS

When 10% of plants (up to 10-12 inches tall) are infested with adults or nymphs, or anytime 100 or more threecornered alfalfa hoppers are caught per 100 sweeps (25 per 25 sweeps)

### CORN EARWORM and FALL ARMYWORM

When 36 larvae are caught per 100 sweeps (or 3 or more larvae per foot of row)

### GREEN CLOVERWORM

From bloom (R1) to near maturity (R7), when 152 larvae are caught per 100 sweeps (38 per 25 sweeps)

### CABBAGE LOOPER and SOYBEAN LOOPER

From bloom (R1) to near maturity (R7), when 76 larvae are caught per 100 sweeps (19 per 25 sweeps)

### DEFOLIATION

30% prior to bloom, 20% from bloom to full seed (R6), 30% after R6.

### SOYBEAN APHID

L, < 5 per leaflet; M, 6-25 per leaflet; H, > 25 per leaflet)

Treat when an average of 250 aphids is found per plant and soybeans are at V5 to R3 stage of development.

Treatment after R5 is unlikely to increase yield

### SPIDER MITES (twospotted or carmine)

L, < 10% infested plants; M, 10-50% infested plants; H, > 50% infested plants

### FROGEYE LEAF SPOT

Severity rating from 0 (none) to 10 (highest)

Other potential insect pests not listed on this form include cutworms, grasshoppers, beet armyworm, yellowstriped armyworm, saltmarsh caterpillar, velvetbean caterpillar, grape colaspis, Dectes stem borer, blister beetles, Japanese beetle, whiteflies and potato leafhopper.

Other potential plant diseases include *Septoria* brown spot, stem canker, sudden death syndrome, powdery mildew, and soybean rust.

**Hint:** Take a minimum of 100 sweeps per field. In soybeans planted on 36-inch or wider rows, sweep only one row. In narrow-row soybeans, allow the normal arch of a sweep net to continue through the adjacent rows.

## THE UNIVERSITY of TENNESSEE

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