

SURVEIL HERBICIDE WEED GUIDE

HERBICIDE

Surveil

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BARNYARDGRASS

Barnyardgrass is an annual grass that prefers wet sites. Stems of young barnyardgrass plants often grow outward along the ground before turning upward. Stems are flattened near the base and may reach a height of 5 feet.

This weed is the only common summer grass that has no hairs or membranes at the collar region and lacks a ligule. Flower heads are extremely variable, but they often droop slightly with lower flower branches farther apart than upper ones. It is closely related to and resembles junglerice without the distinctive purple bands.

Resistance:

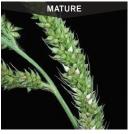
Photosystem II inhibitors (C1/5)

Control:

Preemergence: 2.8 to 4.2 oz./A Surveil® herbicide + 1 pt./A 2,4-D + 24 to 40 oz./A glyphosate or 4 to 6 oz./A Sonic® herbicide + 1 pt./A 2,4-D + 24 to 40 oz./A glyphosate

In-crop: 32 to 48 oz./A glyphosate





COMMON COCKLEBUR

A summer annual that produces a conspicuous prickly bur and ranges from ½ to 6½ feet in height. The relatively large, linear to oblong waxy cotyledons help to distinguish this weed in the early stages of development. Additionally, the long triangular leaves, stems with maroon to black lesions and the distinctive prickly fruit are all features that help in the identification of this weed. The cotyledons of common cocklebur are much longer and more linear than those of giant ragweed.

Resistance:

ALS inhibitors (B/2)

Control:

Preemergence: 2.8 to 4.2 oz./A Surveil® herbicide + 1 pt./A 2,4-D + 24 to 40 oz./A glyphosate or 4 to 6 oz./A Sonic® herbicide + 1 pt./A 2,4-D + 24 to 40 oz./A glyphosate

In-crop: 32 to 48 oz./A glyphosate + 0.3 to 0.6 oz./A FirstRate® herbicide

Does not control ALS-resistant bioptypes





COMMON LAMBSQUARTERS

Common lambsquarters is a summer annual with medium to pale green stems with red stripes. Stems tend to be multibranched and grow 1 to 6 feet tall. Leaves are shaped like a goose foot, often with a whitish powdery coating. Common lambsquarters prefers fertile, cultivated soils, meaning that a lambsquarters infestation is an indicator of good soil.

Resistance:

ALS inhibitors (B/2), photosystem II inhibitors (C1/5)

Control:

Preemergence: 2.8 to 4.2 oz./A Surveil® herbicide + 1 pt./A 2,4-D + 24 to 40 oz./A glyphosate or 4 to 6 oz./A Sonic® herbicide + 1 pt./A 2,4-D + 24 to 40 oz./A glyphosate

In-crop: 32 to 48 oz./A glyphosate (add in PPO mode of action as needed for control)





GIANT RAGWEED

Giant ragweed is a summer annual that can grow up to 16 feet tall. Its leaves are large and distinctively three-lobed, but they can sometimes be five-lobed. Its rough, hairy leaves are about 6 inches long and 4 to 6 inches wide. Opposite leaves occur in pairs at nodes. It prefers moist soil.

Resistance:

ALS inhibitors (B/2), glyphosate (G/9)

Control:

Preemergence: 2.8 to 4.2 oz./A Surveil® herbicide + 1 pt./A 2,4-D + 24 to 40 oz./A glyphosate or 4 to 6 oz./A Sonic® herbicide + 1 pt./A 2,4-D + 24 to 40 oz./A glyphosate

In-crop: 32 to 48 oz./A glyphosate + 0.3 to 0.6 oz./A FirstRate® herbicide

Does not control ALS-resistant bioptypes





IVYLEAF MORNINGGLORY

A summer annual twining or climbing vine with distinctive three-lobed leaves and large showy purple to blue or white flowers. Leaves, stems and fruit can be somewhat hairy. It produces burlike seedpods.

Control:

Preemergence: 2.8 to 4.2 oz./A Surveil® herbicide + 1 pt./A 2,4-D + 24 to 40 oz./A glyphosate or 4 to 6 oz./A Sonic® herbicide + 1 pt./A 2,4-D + 24 to 40 oz./A glyphosate

In-crop: 32 to 48 oz./A glyphosate + 0.3 to 0.6 oz./A FirstRate® herbicide





MARESTAIL (HORSEWEED)

Marestail is an erect winter or summer annual reaching 6½ feet in height. Seedlings develop a basal rosette from which sprouts a 2- to 6-foot-tall stalk covered with narrow leaves. The stems are usually hairy and branch near the top. At the top of the stalks are small white flowers that ripen to white, windblown parachute seeds.

Resistance:

ALS inhibitors (B/2), glyphosate (G/9), PSI electron diverter (D/22), photosystem II inhibitors (C1/5)

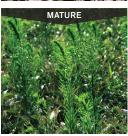
Control:

Preemergence: 2.8 to 4.2 oz./A Surveil® herbicide + 1 pt./A 2,4-D + 24 to 40 oz./A glyphosate or 4 to 6 oz./A Sonic® herbicide + 1 pt./A 2,4-D + 24 to 40 oz./A glyphosate

In-crop: 32 to 48 oz./A glyphosate + 0.3 to 0.6 oz./A FirstRate® herbicide

Does not control ALS-resistant bioptypes





PALMER AMARANTH

An erect summer annual that may reach 6½ feet in height. Seedlings have leaves that are narrow and green to reddish in color. Its first true leaves are alternate, oval-shaped and slightly notched at the tip of the leaf. Mature leaves are alternate, without hairs, and lance-shaped or egg-shaped in outline. Leaves are 2 to 8 inches long and ½ inch to 2½ inches wide. Stems are without hairs. Seed heads are typically over 2 feet long.

Resistance:

ALS inhibitors (B/2), glyphosate (G/9), microtubule inhibitors (K1/3), HPPD inhibitors (F2/27), photosystem II inhibitors (C1/5)

Control:

Preemergence: 2.8 to 4.2 oz./A Surveil® herbicide + 1 pt./A 2,4-D + 24 to 40 oz./A glyphosate or 4 to 6 oz./A Sonic® herbicide + 1 pt./A 2,4-D + 24 to 40 oz./A glyphosate In-crop: Add in PPO mode of action as needed for control





VELVETLEAF

Velvetleaf is aptly named because the large leaves have velvety hair. It is an erect summer annual with leaves and stems that are covered with short, soft hairs. Seedlings have one round and one heart-shaped cotyledon. The first true leaves and subsequent leaves are alternate, heart-shaped and covered with hairs on both surfaces. Mature leaves are approximately 2 to 6 inches long and wide and have slightly toothed margins.

Resistance:

Photosystem II inhibitors (C1/5)

Control:

Preemergence: 2.8 to 4.2 oz./A Surveil® herbicide + 1 pt./A 2,4-D + 24 to 40 oz./A glyphosate or 4 to 6 oz./A Sonic® herbicide + 1 pt./A 2,4-D + 24 to 40 oz./A glyphosate

In-crop: 32 to 48 oz./A glyphosate + 0.3 to 0.6 oz./A FirstRate® herbicide





WATERHEMP

Common waterhemp is a slender, willowy plant with many branches. Mature plants range from 4 inches to 12 feet in height. Stems and leaves are often brightly colored, varying from deep red or pink to emerald green. Its stems, leaves and seed head all may be differently colored on a single plant. Stems and leaves are very smooth and hairless with a bright, glossy appearance. Leaves are long and narrow.

Resistance:

ALS inhibitors (B/2), glyphosate (G/9), PPO inhibitors (E/14), HPPD inhibitors (F2/27), photosystem II inhibitors (C1/5)

Control:

Preemergence: 2.8 to 4.2 oz./A Surveil® herbicide + 1 pt./A 2,4-D + 24 to 40 oz./A glyphosate or 4 to 6 oz./A Sonic® herbicide + 1 pt./A 2,4-D + 24 to 40 oz./A glyphosate In-crop: Add in PPO mode of action as needed for control

Does not control glyphosate-resistant biotypes





The two nonglyphosate modes of action of Surveil® herbicide offer a double barrier of protection, so even sneaky, herbicideresistant weeds have absolutely nowhere to hide.

Visit SurveilSoybeans.com for additional resources.



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