SEEDLING DESCRIPTION
The stems of witchgrass seedlings are erect, slightly oval, and green, often tinged with purple. Both stems and leaf sheaths are densely covered with stiff hairs up to ≈ ½ inch (3 mm) long. Hairs stick straight out from the stem and give the weed a fuzzy appearance. Young leaves are rolled in the bud. When fully emerged, they taper evenly to a pointed tip. Both surfaces of the leaves are covered with soft short hairs, and the leaf margins have similar hairs on the lower (basal) half of the leaf blade. Leaf sheaths are split and the margins may be overlapping or separate. The ligule is a row of short hairs. Auricles are absent.

1. Fuzzy seedling of witchgrass.
2. Plants become hairier as they mature.
3. Short hairy ligule.
4. Emerging seed heads resemble a witch’s broom.
5. Witchgrass produces a profusion of tiny seeds.
6. The wispy panicle is pyramid shaped.
(13 to 30 cm) long and ¼ to ½ inch (1 to 13 mm) wide. Soft erect hairs cover both surfaces, especially near the base of the blade; the tip end of the leaf is less hairy. The leaf sheaths are covered with dense, soft hairs up to ¼ inch (3 mm) long that stand straight out from the surface and become quite harsh and bristly as the grass matures.

The purple or green seed heads (panicles) are quite large, often one half to two thirds the size of the entire plant. Leaves may hide the base of the seed head until midsummer when the seeds begin to mature. The panicle then opens to form a wide-spreading, branched inflorescence with hundreds of tiny florets on threadlike stalks. Each floret produces a single seed about ¼ inch (1 mm) long.

When the grains ripen, the stem of the seed head becomes brittle and breaks off easily. The whole panicle of springy fine branches drifts and bounces along in the wind like a tumbleweed, scattering seeds over great distances. Witchgrass spreads quickly once introduced to an area.

SIMILAR SPECIES
Fall panicum (Panicum dichotomiflorum) is closely related to witchgrass, but has a smooth shiny stem. Witchgrass has a fuzzy stem, even in the seedling stage. The closely related wild proso millet (Panicum miliaceum) has a hairy stem, but its seedhead is distinctly drooping, while that of witchgrass is stiffer and more erect. Several brome grasses have similar hairy sheaths and stems. These are hairy chess or cheat (Bromus commutatus), downy brome (B. tectorum), and soft chess (B. mollis). However, the ligules of all three of these grasses are membranous, while the ligule of witchgrass is a row of short hairs.

NATURAL HISTORY
Witchgrass is native to the eastern United States and is a common weed in cotton, alfalfa, corn, and other cultivated row crops. It prefers dry soil but adapts well to irrigated crops and gardens. Witchgrass grows in meadows, cultivated fields, and often introduced to new crops when its seed contaminates small crop seed, especially alfalfa.

The young panicle of witchgrass looks like a pointed shaving brush or a witch’s broom. Witchgrass is known by other common names, including tickleglass, hairgrass, panic grass, and tumble grass.

CONTROL
Witchgrass can be controlled by many of the methods used to control other annual grass weeds. Several cultural methods can help prevent problems. Clean cultivating may be done late in the season to destroy young plants and prevent seed formation. Also effective are mowing waste places before seeds form and pulling or hoeing scattered plants while they are small.

Witchgrass is one of the few weeds unaffected by the herbicide atrazine. When this chemical is used for weed control, other weeds are eliminated, and the absence of competition allows witchgrass to flourish. When witchgrass is among the weeds infesting agronomic crops, a combination of several herbicides should be used.

For specific recommendations, consult your county Extension agent or the most recent Weed Control Manual and Herbicide Guide, available through Meister Publishing Company, 37841 Euclid Avenue, Willoughby, Ohio 44094. Follow label instructions for all herbicides and observe restrictions on grazing and harvesting procedures.

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