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Controlling Quackgrass
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Controlling Quackgrass

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What is a Perennial Weed?

A perennial weed is any weed capable of surviving for three or more years. Perennial weeds are characterized by vegetative reproduction. Vegetative reproduction in these species is due to (a) rhizomes - underground creeping stems commonly found in perennial grasses; (b) stolons -

prostrate stems or runners on the soil surface with roots at the nodes; (c) creeping roots; (d) tubers - underground enlarged storage stems; or (e) bulbs - underground storage organs consisting of a stem axis covered with many overlapping leaf scales.

Perennial weeds may or may not reproduce by seed. They always, however, have the potential to reproduce by vegetative means.

Description of Quackgrass

Quackgrass is characterized by clasping auricles. At the base of the leaf where the leaf blade meets the

stem sheath there are two structures that wrap partially or completely around the stem. Another major characteristic is the slender, white creeping rhizomes found in the soil at a depth of 2 to 8 inches. These rhizomes are short-lived, only lasting for two summers and one winter. Shoots and roots arise from nodes on the rhizomes. Stems are 1 1/2 to 3 feet tall and erect, branching at the base. Leaves are finely ribbed, sparsely

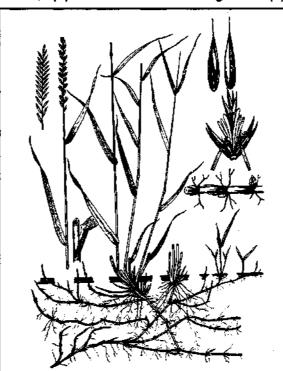
hairy on the lower sheath and smooth (or nearly smooth) on the upper sheath. The seedhead is a spike 2 to 10 inches long. Quackgrass reproduces primarily by rhizomes; less than 20% of the seeds can produce a new plant.

Quackgrass may be found in cultivated fields, pastures, and waste places.

Methods of Control

Methods of perennial weed control fall into three categories: (a) cultural, such as crop rota-

tion; (b) mechanical, tillage including various implements such as plows, disks, or cultivators; and (c) chemical, using herbicides. Control of perennial weeds may require a combination of all these methods. Consider the energy and environmental implications when choosing a method of control.



Mechanical Control

Mechanical control may increase or decrease perennial weed infestations. Tillage may increase infestations by moving perennial weeds to new areas of the field or breaking dormancy of underground

buds resulting in new shoot growth. Tillage during cool, wet conditions results in reduced control.

Tillage may decrease perennial weed infestations if done frequently enough to deplete underground root reserves. The field should be tilled every two or three weeks. Warm, dry soil conditions increase the effectiveness of tillage for perennial weed control by drying plant roots on the soil surface.

Chemical Control of Quackgrass

Soybeans

<u>Herbicide</u>	<u>Rate</u>	<u>Timing</u>	Effectiveness
Assure II + COC ²	0.6 pt/A + 1%	POST	Excellent
Fusilade 2000 + COC ²	1 1/2 pt/A + 1 qt/A	POST	Good
Fusion + COC ²	3/4 pt/A + 1%	POST	Good
Poast + 28% N + Dash	1 1/2 pt/A + 1 gal/A + 1 qt/A	POST	Fair
Poast Plus + Dash	2 1/4 pt/A + 1 qt/A	POST	Fair
Select + COC ²	1 pt/A + 1 qt/A	POST	Fair

Apply when quackgrass is 6-8 inches tall. May require a second application or cultivation. 14-21 days later.

COC = crop oil concentrate.

Corn

<u>Herbicide</u>	<u>Rate</u>	<u>Timing</u>	Effectiveness
Accent + COC¹ or NIS²	2/3 oz/A + 1% or 1/4%	POST (6-8")	Good
Beacon + COC1 or NIS2	0.76 oz/A + 1% or 1/4%	POST (6-8")	Good
Eradicane	3 1/2 qt/A	PPI	Fair

¹ COC = crop oil concentrate.

Spot treatments between crops

<u>Herbicide</u>	<u>Rate</u>	<u>Timina</u> ¹	<u>Effectiveness</u>
Roundup	2 qt/A	Spring or fall	Excellent
Roundup + NIS ²	1 qt/A + 1/2%	Spring or fall	Good
Ranger	1 1/2 qt/A	Spring or fall	Good
Roundup	1%	Spot treatment	Excellent
		(see label)	

¹ All treatments should be made when quackgrass is 8 inches tall or greater.

EXTENSION

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To protect yourself and others and the environment, always read the label before applying any pesticide.

This publication contains pesticide recommendations based on research and pesticide regulations. However, changes in pesticide regulations occur constantly. Some pesticides mentioned may no longer be available, and some uses may no longer be legal. If you have questions about the legality and/or registration status for using pesticides, contact your county Cooperative Extension Service office.

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² NIS = nonionic surfactant.

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