

## Tenacity Herbicide and Hydroseeding

Tenacity® herbicide can be added to a hydroseeding mix to control grass, nutsedge and broadleaf weeds at establishment. Reducing weed competition will greatly improve turf density and overall quality of the turf stand. Tenacity is a systemic herbicide that provides pre- and post-emergence weed control in residential lawns, sports fields, commercial properties and sod farms. Tenacity selectively controls 35 dicot and 11 monocot weed species including crabgrass, goosegrass, yellow nutsedge, nimblewill, bentgrass, yellow foxtail, clover, chickweed, dandelion, oxalis, speedwell, ground ivy and Canada thistle.

Kentucky bluegrass, tall fescue and centipedegrass may be hydroseeded with 5.0–8.0 fl oz/A of Tenacity while perennial ryegrass can be hydroseeded with 5.0 fl oz/A. Seed blends with fine fescue can also be added to a hydroseeding mix with Tenacity as long as the fine fescue content does not exceed 20% by weight of the seed blend. A repeat application 3–4 weeks after hydroseeding will provide optimal control of certain weeds. Refer to the Tenacity label for directions for further precautions and instructions.

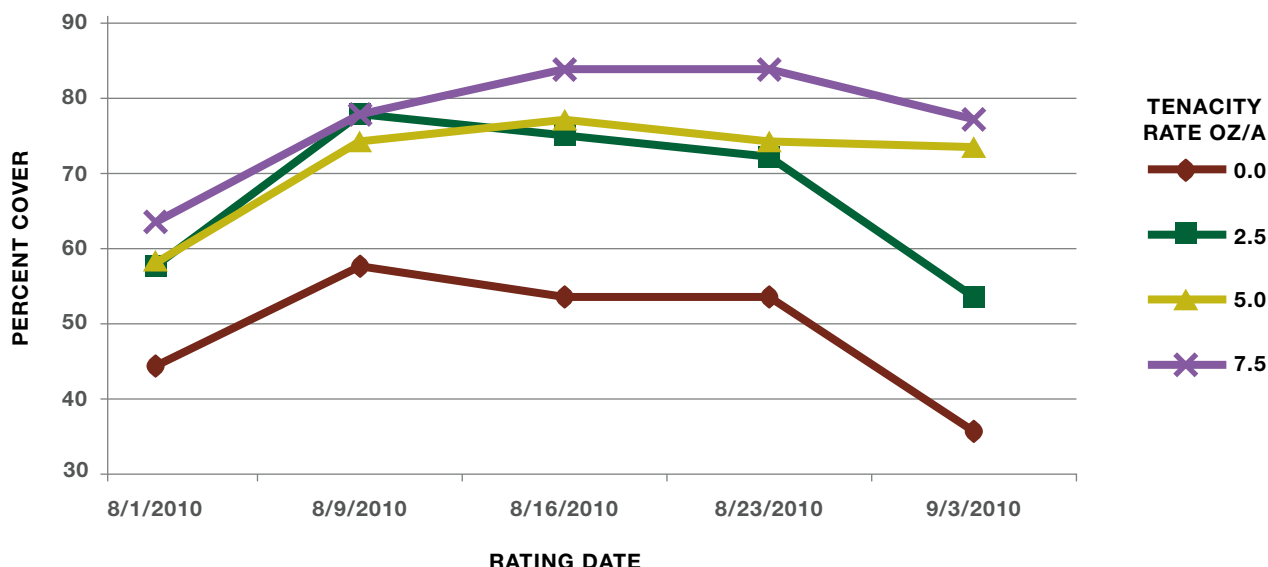
Tenacity can be added to a hydroseeding tank with:

- Fertilizer — Liquid, water soluble or granular fertilizers can be applied
- Tackifier — Tackifiers are used to hold the hydroseeding blend in place on slopes
- Mulch — Wood fiber mulch and/or cellulose fiber mulch may be used

Tenacity Hydroseeding Results – Tenacity has been evaluated in hydroseeding trials with perennial ryegrass, tall fescue and Kentucky bluegrass seed.

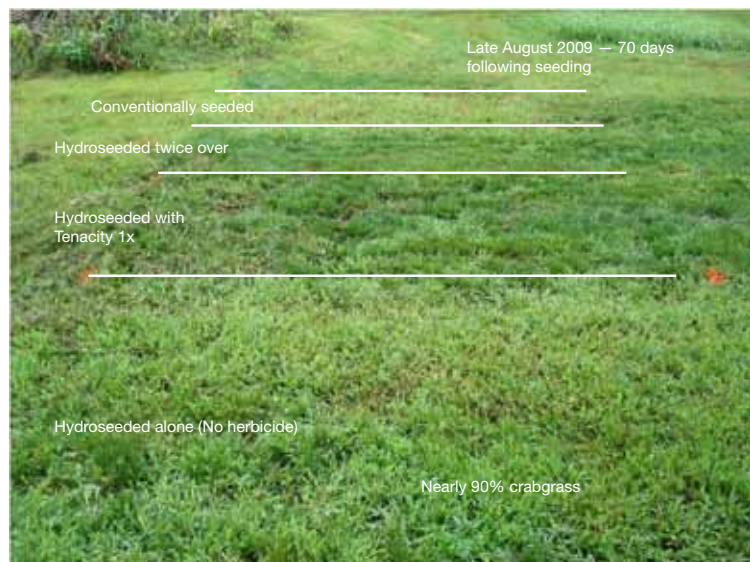
Addition of Tenacity to the hydroseeding slurry increased ryegrass percent cover by eliminating or reducing competing weed populations, allowing for better establishment of desired turfgrass (Pease & Stier, University of Wisconsin, 2010).

**PERENNIAL RYEGRASS COVER (0-100%)  
FOR TENACITY USE IN HYDROSEEDING TRIAL**  
MADISON, WI—2010



LSD<sub>.05</sub> = 14      20      19      14      12

Tenacity was applied in the hydroseeding mix at 5.0 fl oz/A on June 16, 2009. A sequential application was applied to several treatments on July 7. Tenacity hydroseeding treatments significantly improved perennial ryegrass stands and crabgrass control (Steve McDonald, Turfgrass Disease Solutions, LLC).



### 2009 Results

no	Treatment	June 23	July 21	July 28	August 8
% Perennial Ryegrass Coverage					
1	Tenacity applied prior	0.0 b***	55.0 a	70.0 a	90.0 a
2	Tenacity post hydroseeding	0.0 b	63.3 a	66.0 a	90.0 a
3	Tenacity in hydroseed mix	0.0 b	56.7 a	63.3 a	90.0 a
4	Conventionally seeded	10.0 a	66.7 a	80.7 a	48.3 b
5	Tenacity in hydroseed mix fb Tenacity	0.0 b	66.7 a	71.7 a	90.0 a
6	Hydroseed only	0.2 b	68.3 a	75.7 a	58.3 b
Treatment Prob		0.0001	0.3401	0.0785	0.0001

\* All treatments were seeded on June 10, 2009. Follow up Tenacity treatments were applied on July 7, 2009.  
 \*\* Percent perennial ryegrass plot coverage was taken on a 0 to 100% scale where 0= no coverage and 100= entire plot area visibly covered with perennial ryegrass  
 \*\*\* Means followed by same letter do not significantly differ (P= 05, Tukey's HGD)

In 2010, Tenacity was tested on tall fescue and Kentucky bluegrass, but the focus was on perennial ryegrass, a more sensitive species. The Tenacity rate was 5.0 fl oz/A to perennial ryegrass. Hydroseeding treatments were applied on April 30th. A sequential application at 5.0 fl oz/A was applied to several treatments on May 25. Tenacity hydroseeding treatments significantly improved turf cover and reduced crabgrass and common ragweed populations (Steve McDonald, Turfgrass Disease Solutions, LLC).



### Weed Control

		June 19	July 30
		% Ragweed	% Crabgrass
No:	Description		
1	Tenacity applied prior to hydroseed	0.0 c	39.0 b
2	Tenacity applied prior to hydroseed fb Tenacity	0.0 c	6.5 cd
3	Tenacity in hydroseed mix	0.0 c	17.0 c
4	Tenacity in hydroseed mix fb Tenacity	0.0 c	3.8 d
5	Hydroseed only	28.8 a	55.3 a
6	Hydroseed only + rescue Tenacity treatment	10.0 b	6.0 cd
Treatment Prob (F)		0.0001	0.0001

Treatments were applied on April 30, 2010.  
 Sequential applications were made May 25, 2010.  
 'Pizzazz' PRG was applied at 300 kg seed ha<sup>-1</sup>



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