

## 2007 Sequential Herbicide Efficacy & Crop Response Beyond and Affinity Tank Mix Clearfield Wheat

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- Application date: May 19 and May 30, 2007
- Field planted to: ORCF-102 (a soft white Clearfield winter wheat)
- Plot design: Large, on-farm replicated strips
- Sprayer type: All treatments applied by Primeland Cooperatives—Case I.H. Patriot
  - Nozzles: Tee Jet Nozzle, size 008 – 110 degrees
  - Boom height of 30 to 40 inches
- Purpose: Determine ORCF-102 (Clearfield wheat) crop response and percent weed control for sequential applications of Beyond and Affinity tank-mix herbicides.

### Beyond and Affinity Tank Mix Sequential Herbicide Efficacy & Crop Response Reading: July 9, 2007

Treatment	Rate /Acre	Rep I		Rep II		Rep III		Average	
		Weed Control	Crop Damage	Weed Control	Crop Damage	Weed Control	Crop Damage	Weed Control	Crop Damage
1 Untreated check Weed pressure*		15%		45%		30%		30%	
2 Affinity Tank Mix—May 19	1 oz/ac	95%	0	90%	0	95%	0	93%	0
Beyond—May 19	5 oz/ac								
3 Affinity Tank Mix—May 30 & Headline—May 30	1 oz/ac 6 oz/ac	95%	0	97%	0	95%	0	96%	0
4 Beyond—May 19	5 oz/ac	97%	0	95%	0	98%	0	97%	0
Affinity Tank Mix—May 19	1 oz/ac								
5 Beyond—May 30 & Headline—May 30	5 oz/ac 6 oz/ac	95%	0	90%	0	97%	0	94%	0

#### Observations and comments:

Sequential treatments were 11 days apart: First application on May 19, 2007; Sequential application on May 30, 2007

No crop damage observed in any of the treatments under a sequential treatment interval of 11 days.

Treatments provided acceptable levels of weed control.

This data supports effective weed control with the provision of crop safety to ORCF-102 when sequentially applying Beyond and Affinity tank-mix herbicides

\*Weed pressure on the untreated check was 15%, 45%, and 30%, respectively, in replicates I, II, and III. Average weed pressure was 30%.

For sequential herbicide treatments in crop rotations, consult 2007 PNW 437, "Herbicide-Resistant Weeds and Their Management," by Donn Thill, Professor Weed Science, University of Idaho, et.al., for more information.