

## Controlling Annual Ryegrass in Southern Illinois

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### Herbicide Effectiveness

Ryegrass cover crop varieties must be controlled by herbicides in the spring in order to plant a row crop. The following tables, summarizing three years of trials, show the herbicides tested and their effect on the different varieties. The 2006 trial was sprayed March 16 in vegetative stage of growth. Spraying and evaluations were done in cooperation with Ron Hines, Dixon Springs Agricultural Center. The 2007 trial was sprayed April 16, a week after a freeze, when plants were at the vegetative to first joint stage. The 2008 trial was sprayed April 23, when plants were at first joint.

**Note:** In the following tables, the rating indicates the percent of control, with **100** meaning no plants survived the treatment.

**Table 3. Annual Ryegrass Control with Gramoxone, Atrazine, Princep**

2006 Variety	Gramoxone Inteon	Gramoxone Inteon 3	Gramoxone Inteon 3pt	Gramoxone Inteon 3pt
	3pt.	pt Atrazine 4L 2 qt	Princep 4L 1 qt	atrazine 4L 2 qt. Princep 4 L 1 qt
Tam 90	78	85	82	89
Saddle Pro	85	85	78	88
Ribeye	75	87	82	89
FI x2002	73	88	77	89
Bartissimo	76	85	81	90
Angus1	78	89	84	90
Saddle Butte	73	86	77	88
Flying A	77	89	82	89
Soil Builder	73	87	80	87
Commission				
Exp	73	85	75	88
King	72	85	78	88
A055-30r	73	87	83	92
Bounty	73	83	78	89
Gulf	78	87	83	92
Florina	77	86	78	89
Marshall	75	83	78	86
LSD 0.05	7	3	5	3

**Table 4. Annual Ryegrass Control with Roundup, Steadfast**

<b>2006</b> Variety	Roundup Weather Max 22oz	Roundup Weather Max 32oz.	Roundup Weather Max 22 oz. Degree Xtra 3 qt	Steadfast 75wg .75oz
Tam 90	98	99	86	47
Saddle Pro	98	98	81	42
Ribeye	97	98	84	47
FI x2002	97	97	85	42
Bartissimo	99	99	87	45
Angus1	99	99	87	48
Saddle Butte	96	98	86	45
Flying A	96	99	87	42
Soil Builder	98	99	86	38
Commission				
Exp	97	99	85	41
King	95	99	86	45
A055-30r	99	99	90	45
Bounty	98	99	88	40
Gulf	98	99	87	48
Florina	95	99	87	43
Marshall	96	99	89	45
<b>LSD 0.05</b>	<b>3</b>	<b>1</b>	<b>6</b>	<b>6</b>

**Table 5. Annual Ryegrass Control with ClearOut/Basis**

<b>2006</b> Variety	ClearOut 41 + 1 qt	ClearOut 41+ 1.5 qt	ClearOut 41+ 1.5qt Basis 75df .33oz
Tam 90	93	98	98
Saddle Pro	92	97	97
Ribeye	95	98	97
FI x2002	95	97	97
Bartissimo	97	98	99
Angus1	96	98	97
Saddle Butte	95	98	97
Flying A	95	98	97
Soil Builder	93	98	98
Commission Exp	93	98	98
King	95	98	98
A055-30r	97	99	99
Bounty	96	98	98
Gulf	95	99	98
Florina	95	98	97
Marshall	95	98	98
LSD 0.05	3	1	2

**Table 6. Annual Ryegrass Control with Select Max, Clearout, and Roundup Weather MAX**

<b>2007</b>	Select Max 12 oz./a	Clearout 41+ 48 oz/a	Roundup Weather Max 32 oz/a
Variety			
A055-30r	53	99	99
Angus1	66.3	99	99
Bartissimo	91.7	96	99
Bounty	81.7	96	99
Commission Exp	80	99	99
Fantastic	80	97.7	95.7
Florlina	26.7	94.2	99
Flx 2002	35	96.3	96
Flying a	53.3	99	95.3
Gulf	94.7	99	99
Jackson	63.3	99	97.7
King	38.3	99	97.7
Marshal	43.3	99	99
Passerel+	60	99	94.7
Ribeye	26.7	99	99
Saddlebutte	55	97.6	94.7
Saddlepro	41.7	96.7	99
Soil builder	51.7	97.7	99
Tam 90	61.7	97.7	97.7
<b>LSD 0.05</b>	<b>33.1</b>	<b>3.7</b>	<b>4.4</b>

**Table 7. Annual Ryegrass Control with Glyphosate 51 Plus Other Herbicides**  
*Trial shows results from across all 18 varieties*

<b>2008</b>	Rate per acre	Control rating
<b>Treatment</b>		
Glyphosate 51	22 oz	97
Glyphosate 51	32 oz + 2,4-D	100
Glyphosate 51	32 oz + Calisto 7oz	63
Glyphosate 51	32 oz + Prowl H2O 3 pt	99
Glyphosate 51	32 oz + Resolve 2 oz.	99
Glyphosate 51	32 oz + Basis 1 oz	99
Glyphosate 51	32 oz + Balance Pro 4oz	99
Glyphosate 51	32 oz	99
<b>LSD 0.05</b>		<b>0.6</b>