



## 2020 PEANUT WEED SCIENCE REPORT

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Peanut weed management trials were conducted at the Oklahoma State University Caddo Research Station near Fort Cobb in 2020. Peanut were planted in early May. Cool temperatures slowed development in 2020 and may have contributed to some of the early season injury observed in some of the trials. Even with the slow start peanut yields often exceeded 6,000 pounds per acre in 2020. Peanut planting and herbicide application information is presented before each data set.

Trial PFCS20-01 was established to evaluate peanut response to Strongarm in Spanish peanut (Ole). Strongarm® was applied at a 1X (0.45 ounces per acre) and 2X (0.9 ounces per acre) rate. Each rate was applied preemergence (PRE) or At-Crack. The entire trial was maintained weed-free through hand weeding. No stand reduction were observed from any applications. Peanut injury were over 20% with 0.45 ounces per acre (1X rate) and over 30% with 0.9 ounces per acre (2X rate) when Strongarm® was applied PRE (Table 1). Peanut injury was 5% or lower when the application was delayed to an At-Crack timing. All injury had dissipated by season's end. Peanut yield were reduced with both rates PRE. This research indicated that Strongarm® PRE could injure peanut, while delaying applications to At-Crack was much safer.

Trial PFCS20-07 was established to evaluate peanut response to Zidua®, which was applied to Virginia peanut (Wynne). Zidua® was applied at 2.5 or 3.5 fluid ounces per acre at three different postemergence (POST) timings. The entire trial was maintained weed-free through hand weeding. Peanut stand reduction, stunting and injury was less than 5% from any application (Table 2). None of the Zidua® treatment rates or application timings affected yield when compared to the weed-free check. This research indicated that Zidua® applied POST was safe for use in peanut.

Trial PFCS20-05 was established to evaluate preemergence combinations of Valor®, Outlook® and Pursuit® for weed control in peanut. All treatments except Treatment #12 included a PRE application of Prowl® H<sub>2</sub>O (32 fluid ounces per acre). These same treatments were followed by POST applications of Cobra® (12.5 fluid ounces per acre) + 2,4-DB (21 fluid ounces per acre) and Select Max® (16 fluid ounces per acre). All Gramoxone® POST treatments included Zidua® (1.75 fluid ounces per acre) + Agridex (1 % v/v).

Peanut injury was generally less than 5% except where Pursuit® was applied PRE at 4 fluid ounces per acre (Table 3). In some instances, injury was over 15% when Pursuit® was applied PRE at 4 fluid ounces per acre. Applying Pursuit® as a split application, 2 fluid ounces per acre PRE and 2 fluid ounces per acre At-Crack, lowered injury to 6% or less. Peanut had recovered from early season injury by early July.

Early season Palmer amaranth (AMAPA) control was at least 99% when Valor® was applied PRE (Table 4). An At-Crack application of Gramoxone® + Zidua® controlled Palmer amaranth at least 94%, except when following a PRE application of Outlook® alone. Late season Palmer amaranth control was at least 95% when At-Crack and POST applications followed Prowl® H<sub>2</sub>O

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+ Valor® PRE alone or in combination with Outlook® or Pursuit®. Early season Texas panicum (PANTE) control was at least 95% with all PRE treatments, except when Valor® was applied alone (Table 5). Gramoxone® + Zidua® applied At-Crack controlled Texas panicum at least 99%, except when following Valor® or Outlook® applied alone. Late season Texas panicum control was at least 99%, except with the PRE applications of Valor® or Outlook® alone and when Valor® was followed by Cadre® + Dual Magnum® + 2,4-DB. Yellow nutsedge (CYPES) and ivyleaf morningglory (IPOHE) populations were very low (Table 6 and table 7). Control was at least 99% with all treatments by the end of the season.

All treatments increased yield over the untreated check (Table 7). The only treatment that had yields below 4,000 pounds/acre was Prowl® H<sub>2</sub>O PRE + Pursuit® applied as a split application (PRE and At-Crack). Treatments that yielded over 5,000 pounds/acre included Valor® PRE followed by Cadre® + Dual Magnum® + 2,4-DB POST and Prowl® H<sub>2</sub>O + Valor® PRE + Pursuit® Split and Prowl® H<sub>2</sub>O + Valor® + Outlook® PRE in combination with Pursuit® PRE or Pursuit® Split. This trial indicates the need for a comprehensive weed control program to manage a diverse population of weeds while maintaining peanut yields.

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**Table 1. Peanut response to PRE and At-Crack applications of Strongarm® in Fort Cobb, Oklahoma 2020.**

Trt No.	Treatment Name	Rate	Unit	Appl Code	Peanut StdRed	Peanut StdRed	Peanut StdRed	Peanut StdRed	Peanut Stunt	Peanut Stunt	Peanut Stunt	Peanut Stunt	Peanut Stunt	Peanut Stunt
					% 5/19	% 6/4	% 6/17	% 7/2	% 5/19	% 6/4	% 6/17	% 7/2	% 7/21	% 8/21
1	Untreated				0	0	0	0	0	0	0	0	0	0
2	Strongarm®	0.45	oz/A	PRE	0	0	0	0	0	11	21	5	5	0
3	Strongarm®	16	oz/A	PRE	0	0	0	0	0	16	34	25	15	0
4	Strongarm®	12.8	oz/A	AC	0	0	0	0	0	0	4	1	1	0
5	Strongarm®	16	oz/A	AC	0	0	0	0	0	0	5	4	1	0
LSD P=.10					NS	NS	NS	NS	NS	4	10	6	5	NS
Standard Deviation					0	0	0	0	0	3	8	5	4	0
CV					0	0	0	0	0	60	65	66	91	0
Treatment Prob (F)					1.0000	1.0000	1.0000	1.0000	1.0000	0.0001	0.0004	0.0001	0.0013	1.0000

**Table 1 (continued). Peanut response to PRE and At-Crack applications of Strongarm® in Fort Cobb, Oklahoma 2020.**

Trt No.	Treatment Name	Rate	Unit	Appl Code	Peanut Injury	Peanut Injury	Peanut Injury	Peanut Injury	Peanut Injury	Peanut Injury	Peanut Yield
					% 5/19	% 6/4	% 6/17	% 7/2	% 7/21	% 8/21	lb/A 9/29
1	Untreated				0	0	0	0	0	0	5837
2	Strongarm®	0.45	oz/A	PRE	0	13	21	5	5	0	5169
3	Strongarm®	0.9	oz/A	PRE	0	20	36	25	15	0	4632
4	Strongarm®	0.45	oz/A	AC	0	0	4	1	1	0	5939
5	Strongarm®	0.9	oz/A	AC	0	5	5	4	1	0	5605
LSD P=.10					NS	4	12	6	5	NS	442
Standard Deviation					0	3	9	5	4	0	350
CV					0	38	70	66	91	0	6
Treatment Prob (F)					1.0000	0.0001	0.0006	0.0001	0.0013	1	0.0011



**Table 2. Peanut response to POST applications of Zidua® in Fort Cobb, Oklahoma 2020.**

Trt No.	Treatment Name	Rate	Unit	Appl Code	Peanut StdRed	Peanut StdRed	Peanut StdRed	Peanut Stunting	Peanut Stunting	Peanut Stunting	Peanut Stunting	Peanut Stunting	Peanut Stunting
					% 6/4	% 6/17	% 7/2	% 6/4	% 6/17	% 7/2	% 7/21	% 8/4	% 8/21
1	Untreated				0	0	0	3	0	0	0	0	0
2	Zidua®	2.5	floz/A	P1	3	1	0	3	3	3	3	0	0
3	Zidua®	3.5	floz/A	P1	3	1	1	4	4	3	1	0	0
4	Zidua®	2.5	floz/A	P2	0	1	0	0	2	3	1	0	0
5	Zidua®	3.5	floz/A	P2	0	0	0	0	1	1	1	0	0
6	Zidua®	2.5	floz/A	P3	0	0	0	0	0	0	1	0	0
7	Zidua®	3.5	floz/A	P3	0	0	0	0	0	0	1	0	0
LSD P=.10					2	NS	NS	1	2	NS	NS	NS	NS
Standard Deviation					2	1	1	1	2	2	2	0	0
CV					216	249	529	120	108	173	183	0	0
Treatment Prob (F)					0.0615	0.4552	0.4552	0.0002	0.0023	0.2906	0.8718	1.0000	1.0000

**Table 2 (continued). Peanut response to POST applications of Zidua® in Fort Cobb, Oklahoma 2020.**

Trt No.	Treatment Name	Rate	Unit	Appl Code	Peanut Injury	Peanut Injury	Peanut Injury	Peanut Injury	Peanut Injury	Peanut Injury	Peanut Yield
					% 6/4	% 6/17	% 7/2	% 7/21	% 8/4	% 8/21	10/21 lb/A
1	Untreated				0	0	0	0	0	0	5910
2	Zidua®	2.5	floz/A	P1	3	3	4	3	1	1	5910
3	Zidua®	3.5	floz/A	P1	4	4	3	3	3	0	6127
4	Zidua®	2.5	floz/A	P2	0	2	3	1	1	0	6273
5	Zidua®	3.5	floz/A	P2	0	1	1	1	0	0	5910
6	Zidua®	2.5	floz/A	P3	0	0	0	1	1	0	6040
7	Zidua®	3.5	floz/A	P3	0	0	0	1	0	0	6127
LSD P=.10					1	2	NS	NS	NS	NS	NS
Standard Deviation					1	2	3	3	2	1	392
CV					120	108	174	174	223	529	6
Treatment Prob (F)					0.0002	0.0023	0.2572	0.8117	0.5161	0.4552	0.7847



**Table 3. Peanut response to weed control programs in Fort Cobb, Oklahoma 2020.**

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	Peanut Injury	Peanut Injury	Peanut Injury	Peanut Injury	Peanut Injury	Peanut Injury
					% 5/19	% 6/4	% 6/17	% 7/2	% 7/21	% 8/4
1	Untreated				0	0	0	0	0	0
2	Valor®	2	oz/A	PRE	0	0	5	0	0	0
	Gramoxone®	16	floz/A	AC						
3	Outlook®	12.8	floz/A	PRE	0	1	5	0	0	0
	Gramoxone®	16	floz/A	AC						
4	Pursuit®	4	floz/A	PRE	0	8	14	3	0	0
	Gramoxone®	16	floz/A	AC						
5	Pursuit®	2	floz/A	PRE	0	1	3	0	0	0
	Pursuit®	2	floz/A	AC						
	Gramoxone®	16	floz/A	AC						
6	Valor®	2	oz/A	PRE	0	10	15	4	0	0
	Pursuit®	4	floz/A	PRE						
	Gramoxone®	16	floz/A	AC						
7	Valor®	2	oz/A	PRE	0	3	6	0	0	0
	Pursuit®	2	floz/A	PRE						
	Pursuit®	2	floz/A	AC						
	Gramoxone®	16	floz/A	AC						
8	Outlook®	12.8	floz/A	PRE	0	8	18	3	1	0
	Pursuit®	4	floz/A	PRE						
	Gramoxone®	16	floz/A	AC						
9	Outlook®	12.8	floz/A	PRE	0	4	6	0	0	0
	Pursuit®	2	floz/A	PRE						
	Pursuit®	2	floz/A	AC						
	Gramoxone®	16	floz/A	AC						
10	Valor®	2	oz/A	PRE	0	8	11	3	0	0
	Outlook®	12.8	floz/A	PRE						
	Pursuit®	4	floz/A	PRE						
	Gramoxone®	16	floz/A	AC						
11	Valor®	2	oz/A	PRE	0	4	0	1	0	0
	Outlook®	12.8	floz/A	PRE						
	Pursuit®	2	floz/A	PRE						
	Pursuit®	2	floz/A	AC						
	Gramoxone®	16	floz/A	AC						
12	Valor®	3	oz/A	PRE	0	1	0	0	0	0
	Cadre®	4	floz/A	POST1						
	Dual Magnum®	16	floz/A	POST1						
	2,4-DB	21	floz/A	POST1						
	Agridex®	1%	v/v	POST1						
LSD P=.10					NS	3	3	2	1	NS
Standard Deviation					0	2	3	2	1	0
CV					0	57	36	162	693	0
Treatment Prob (F)					1.0000	0.0001	0.0001	0.0125	0.4671	1.0000

Treatments 1-11 included Prowl H2O PRE (32 fl oz/A) and were followed by a a POST application of:  
 Cobra (12.5 floz/A) + 2,4-DB (21 fl oz/A) + Agridex (1% v/v) - POST2  
 Select Max (16 fl oz/A) + Agridex (1% v/v) - POST3  
 All Gramoxone® POST treatments included Zidua® (1.75 fl oz/A) + Agridex (1% v/v)



Table 4. Palmer amaranth (AMAPA) response to weed control programs in Fort Cobb, Oklahoma 2020.

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	AMAPA Control	AMAPA Control	AMAPA Control	AMAPA Control	AMAPA Control	AMAPA Control	AMAPA Control
					5/19 %	6/4 %	6/17 %	7/2 %	7/21 %	8/4 %	8/21 %
1	Untreated				0	0	0	0	0	0	0
2	Valor®	2	oz/A	PRE	100	99	99	98	99	99	97
	Gramoxone®	16	floz/A	AC							
3	Outlook®	12.8	floz/A	PRE	100	75	94	68	90	82	80
	Gramoxone®	16	floz/A	AC							
4	Pursuit®	4	floz/A	PRE	100	82	96	58	80	64	45
	Gramoxone®	16	floz/A	AC							
5	Pursuit®	2	floz/A	PRE	100	69	83	55	77	66	56
	Pursuit®	2	floz/A	AC							
	Gramoxone®	16	floz/A	AC							
6	Valor®	2	oz/A	PRE	100	100	100	99	98	98	96
	Pursuit®	4	floz/A	PRE							
	Gramoxone®	16	floz/A	AC							
7	Valor®	2	oz/A	PRE	100	99	100	99	100	99	98
	Pursuit®	2	floz/A	PRE							
	Pursuit®	2	floz/A	AC							
	Gramoxone®	16	floz/A	AC							
8	Outlook®	12.8	floz/A	PRE	100	96	99	90	94	98	97
	Pursuit®	4	floz/A	PRE							
	Gramoxone®	16	floz/A	AC							
9	Outlook®	12.8	floz/A	PRE	100	95	96	71	89	86	84
	Pursuit®	2	floz/A	PRE							
	Pursuit®	2	floz/A	AC							
	Gramoxone®	16	floz/A	AC							
10	Valor®	2	oz/A	PRE	100	100	100	99	100	100	100
	Outlook®	12.8	floz/A	PRE							
	Pursuit®	4	floz/A	PRE							
	Gramoxone®	16	floz/A	AC							
11	Valor®	2	oz/A	PRE	100	100	100	100	98	98	96
	Outlook®	12.8	floz/A	PRE							
	Pursuit®	2	floz/A	PRE							
	Pursuit®	2	floz/A	AC							
	Gramoxone®	16	floz/A	AC							
12	Valor®	3	oz/A	PRE	100	100	85	98	91	92	88
	Cadre®	4	floz/A	POST1							
	Dual Magnum®	16	floz/A	POST1							
	2,4-DB	21	floz/A	POST1							
	Agridex®	1%	v/v	POST1							
	LSD P=	10			NS	11	7	15	11	16	21
	Standard Deviation				0	9	6	12	9	14	18
	CV				0	11	6	16	11	17	23
	Treatment Prob (F)				1.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Treatments 1-11 included Prowl H2O PRE (32 fl oz/A) and were followed by a a POST application of:  
 Cobra (12.5 floz/A) + 2,4-DB (21 fl oz/A) + Agridex (1% v/v) - POST2  
 Select Max (16 fl oz/A) + Agridex (1% v/v) - POST3  
 All Gramoxone® POST treatments included Zidua® (1.75 fl oz/A) + Agridex (1% v/v)



**Table 5. Texas panicum (PANTE) response to weed control programs in Fort Cobb, Oklahoma 2020.**

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	PANTE Control	PANTE Control	PANTE Control	PANTE Control	PANTE Control	PANTE Control	PANTE Control
					5/19 %	6/4 %	6/17 %	7/2 %	7/21 %	8/4 %	8/21 %
1	Untreated				0	0	0	0	0	0	0
2	Valor®	2	oz/A	PRE	100	85	86	53	44	73	90
	Gramoxone®	16	floz/A	AC							
3	Outlook®	12.8	floz/A	PRE	100	95	92	65	60	84	96
	Gramoxone®	16	floz/A	AC							
4	Pursuit®	4	floz/A	PRE	100	100	99	97	78	95	98
	Gramoxone®	16	floz/A	AC							
5	Pursuit®	2	floz/A	PRE	100	99	99	98	86	99	99
	Pursuit®	2	floz/A	AC							
	Gramoxone®	16	floz/A	AC							
6	Valor®	2	oz/A	PRE	100	100	100	96	70	96	96
	Pursuit®	4	floz/A	PRE							
	Gramoxone®	16	floz/A	AC							
7	Valor®	2	oz/A	PRE	100	95	99	97	80	99	98
	Pursuit®	2	floz/A	PRE							
	Pursuit®	2	floz/A	AC							
	Gramoxone®	16	floz/A	AC							
8	Outlook®	12.8	floz/A	PRE	100	99	99	96	80	99	100
	Pursuit®	4	floz/A	PRE							
	Gramoxone®	16	floz/A	AC							
9	Outlook®	12.8	floz/A	PRE	100	99	99	96	81	98	100
	Pursuit®	2	floz/A	PRE							
	Pursuit®	2	floz/A	AC							
	Gramoxone®	16	floz/A	AC							
10	Valor®	2	oz/A	PRE	100	100	99	98	78	97	98
	Outlook®	12.8	floz/A	PRE							
	Pursuit®	4	floz/A	PRE							
	Gramoxone®	16	floz/A	AC							
11	Valor®	2	oz/A	PRE	100	99	99	96	84	99	100
	Outlook®	12.8	floz/A	PRE							
	Pursuit®	2	floz/A	PRE							
	Pursuit®	2	floz/A	AC							
	Gramoxone®	16	floz/A	AC							
12	Valor®	3	oz/A	PRE	100	90	60	78	95	94	94
	Cadre®	4	floz/A	POST1							
	Dual Magnum®	16	floz/A	POST1							
	2,4-DB	21	floz/A	POST1							
	Agridex®	1%	v/v	POST1							
LSD P=.10					NS	6	6	10	10	6	3
Standard Deviation					0	5	5	8	9	5	3
CV					0	5	6	10	12	6	3
Treatment Prob (F)					1.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Treatments 1-11 included Prowl H2O PRE (32 fl oz/A) and were followed by a POST application of:  
 Cobra (12.5 floz/A) + 2,4-DB (21 fl oz/A) + Agridex (1% v/v) - POST2  
 Select Max (16 fl oz/A) + Agridex (1% v/v) - POST3  
 All Gramoxone® POST treatments included Zidua® (1.75 fl oz/A) + Agridex (1% v/v)



**Table 6. Yellow nutsedge (CYPES) response to weed control programs in Fort Cobb, Oklahoma 2020.**

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	CYPES Control	CYPES Control	CYPES Control	CYPES Control	CYPES Control	CYPES Control	CYPES Control
					5/19 %	6/4 %	6/17 %	7/2 %	7/21 %	8/4 %	8/21 %
1	Untreated				0	0	0	0	0	0	0
2	Valor®	2	oz/A	PRE	100	79	76	75	100	100	100
	Gramoxone®	16	floz/A	AC							
3	Outlook®	12.8	floz/A	PRE	100	100	98	100	100	100	100
	Gramoxone®	16	floz/A	AC							
4	Pursuit®	4	floz/A	PRE	100	100	100	100	100	100	100
	Gramoxone®	16	floz/A	AC							
5	Pursuit®	2	floz/A	PRE	100	99	99	100	100	100	100
	Pursuit®	2	floz/A	AC							
	Gramoxone®	16	floz/A	AC							
6	Valor®	2	oz/A	PRE	100	100	100	100	100	100	100
	Pursuit®	4	floz/A	PRE							
	Gramoxone®	16	floz/A	AC							
7	Valor®	2	oz/A	PRE	100	100	100	100	100	100	100
	Pursuit®	2	floz/A	PRE							
	Pursuit®	2	floz/A	AC							
	Gramoxone®	16	floz/A	AC							
8	Outlook®	12.8	floz/A	PRE	100	100	100	100	100	100	100
	Pursuit®	4	floz/A	PRE							
	Gramoxone®	16	floz/A	AC							
9	Outlook®	12.8	floz/A	PRE	100	100	100	100	100	100	100
	Pursuit®	2	floz/A	PRE							
	Pursuit®	2	floz/A	AC							
	Gramoxone®	16	floz/A	AC							
10	Valor®	2	oz/A	PRE	100	100	100	100	100	100	100
	Outlook®	12.8	floz/A	PRE							
	Pursuit®	4	floz/A	PRE							
	Gramoxone®	16	floz/A	AC							
11	Valor®	2	oz/A	PRE	100	100	100	100	100	100	100
	Outlook®	12.8	floz/A	PRE							
	Pursuit®	2	floz/A	PRE							
	Pursuit®	2	floz/A	AC							
	Gramoxone®	16	floz/A	AC							
12	Valor®	3	oz/A	PRE	100	98	80	93	100	100	100
	Cadre®	4	floz/A	POST1							
	Dual Magnum®	16	floz/A	POST1							
	2,4-DB	21	floz/A	POST1							
	Agridex®	1%	v/v	POST1							
LSD P=.10					NS	12	11	11	NS	NS	NS
Standard Deviation					0	10	9	9	0	0	0
CV					0	12	11	10	0	0	0
Treatment Prob (F)					1.0000	0.0001	0.0001	0.0001	1.0000	1.0000	1.0000

Treatments 1-11 included Prowl H2O PRE (32 fl oz/A) and were followed by a POST application of:  
 Cobra (12.5 floz/A) + 2,4-DB (21 fl oz/A) + Agridex (1% v/v) - POST2  
 Select Max (16 fl oz/A) + Agridex (1% v/v) - POST3  
 All Gramoxone® POST treatments included Zidua® (1.75 fl oz/A) + Agridex (1% v/v)





**Table 7. Ivylead morning glory (IPOHE) and yield response to weed control programs in Fort Cobb, Oklahoma 2020.**

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	IPOHE Control	IPOHE Control	IPOHE Control	IPOHE Control	IPOHE Control	IPOHE Control	IPOHE Control	Peanut Yield 9/29 lb/A
					5/19 %	6/4 %	6/17 %	7/2 %	7/21 %	8/4 %	8/21 %	
1	Untreated				0	0	0	0	0	0	0	1597
2	Valor®	2	oz/A	PRE	100	98	88	61	100	100	100	4138
	Gramoxone®	16	floz/A	AC								
3	Outlook®	12.8	floz/A	PRE	100	98	70	54	100	100	99	4980
	Gramoxone®	16	floz/A	AC								
4	Pursuit®	4	floz/A	PRE	100	100	100	97	100	100	99	4153
	Gramoxone®	16	floz/A	AC								
5	Pursuit®	2	floz/A	PRE	100	100	100	100	100	100	100	3906
	Pursuit®	2	floz/A	AC								
	Gramoxone®	16	floz/A	AC								
6	Valor®	2	oz/A	PRE	100	100	100	99	100	100	100	4458
	Pursuit®	4	floz/A	PRE								
	Gramoxone®	16	floz/A	AC								
7	Valor®	2	oz/A	PRE	100	100	100	100	100	100	100	5314
	Pursuit®	2	floz/A	PRE								
	Pursuit®	2	floz/A	AC								
	Gramoxone®	16	floz/A	AC								
8	Outlook®	12.8	floz/A	PRE	100	100	100	100	100	100	99	4356
	Pursuit®	4	floz/A	PRE								
	Gramoxone®	16	floz/A	AC								
9	Outlook®	12.8	floz/A	PRE	100	100	100	98	100	100	100	4661
	Pursuit®	2	floz/A	PRE								
	Pursuit®	2	floz/A	AC								
	Gramoxone®	16	floz/A	AC								
10	Valor®	2	oz/A	PRE	100	100	100	98	100	100	99	5053
	Outlook®	12.8	floz/A	PRE								
	Pursuit®	4	floz/A	PRE								
	Gramoxone®	16	floz/A	AC								
11	Valor®	2	oz/A	PRE	100	100	100	100	100	100	100	5343
	Outlook®	12.8	floz/A	PRE								
	Pursuit®	2	floz/A	PRE								
	Pursuit®	2	floz/A	AC								
	Gramoxone®	16	floz/A	AC								
12	Valor®	3	oz/A	PRE	100	100	91	100	100	100	99	5184
	Cadre®	4	floz/A	POST1								
	Dual Magnum®	16	floz/A	POST1								
	2,4-DB	21	floz/A	POST1								
	Agridex®	1%	v/v	POST1								
	LSD P=	.10			NS	3	8	15	NS	NS	2	792
	Standard Deviation				0	2	7	12	0	0	2	662
	CV				0	2	7	15	0	0	2	15
	Treatment Prob (F)				1.0000	0.0001	0.0001	0.0001	1.0000	1.0000	0.0001	0.0001

Treatments 1-11 included Prowl H2O PRE (32 fl oz/A) and were followed by a POST application of:  
 Cobra (12.5 floz/A) + 2,4-DB (21 fl oz/A) + Agridex (1% v/v) - POST2  
 Select Max (16 fl oz/A) + Agridex (1% v/v) - POST3  
 All Gramoxone® POST treatments included Zidua® (1.75 fl oz/A) + Agridex (1% v/v)