

Benefits of Fall Applications of Valor.

Project Code: 05-1-E145 Location: Belleville Research Center  
 Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA  
 Trial Status: Final Updated: 11-03-05

**Objective:**  
 To determine the influence of a fall burndown application of Valor on crops grown the following spring compared to no fall burndown.

Weed Code	Common Name	Scientific Name
1.	RANAB buttercup, smallflower	Ranunculus abortivus L.
2.	SENGL groundsel, cressleaf	Senecio glabellus Poir.
3.	LAMAM henbit	Lamium amplexicaule L.
4.	STEME chickweed, common	Stellaria media (L.) Vill.
5.	CAPBP shepherdspurse	Capsella bursa-pastoris (L.) Medicus
6.	TAROF dandelion	Taraxacum officinale Weber in Wiggers
7.	CERVU chickweed, mouseear	Cerastium vulgatum L.
8.	HORPU barley, little	Hordeum pusillum Nutt.

Crop 1: Multi Crops Variety: See comments  
 Planting Method: Seeded  
 Row Spacing: 30 IN

Plot Width, Unit: 30 FT Plot Length, Unit: 60 FT Reps: 3  
 Tillage Type: No-Till Study Design: Randomized complete block  
 Previous Crop, Year: GLXMA, 2004

Field Prep./Maintenance: N 0 LB/A, P205 50 LB/A, K20 100 LB/A applied on 3-14-05

Soil Name: Weir % OM: 1.6 pH: 6.2 CEC: 8  
 Texture: Silt loam Fert. Level: P1: 83 LB/A, K: 396 LB/A

**APPLICATION DESCRIPTION**

	A	B
Application Date:	11-17-04	03-29-05
Time of Day:	11:00	9:00
Application Method:	Spray	Spray
Application Timing:	FALL	SPRING
Applic. Placement:	BROFOL	BROFOL
Air Temp., Unit:	64 F	56 F
% Relative Humidity:	86	48
Wind Velocity, Unit:	0 MPH	7 MPH
Soil Moisture:	ABONOR	ABONOR

**CROP STAGE AT EACH APPLICATION**

	A	B
Crop 1 Code, Stage:	Multi NA	Multi NA
Height, Unit:	NA NA	NA NA

**WEED STAGE AT EACH APPLICATION**

	A	B
Weed 1 Code:	RANAB	RANAB
Stage (leaves):	4-6	10+
Height (inches):	1-2	2-6
Density:	Medium	Medium
Weed 2 Code:	SENGL	SENGL
Stage (leaves):	10+	10+
Height (inches):	1-3	3-4
Density:	Medium	Medium
Weed 3 Code:	LAMAM	LAMAM
Stage (leaves):	10+	10+
Height (inches):	1-2	2-5
Density:	Medium	Medium
Weed 4 Code:	STEME	STEME
Stage (leaves):	10+	10+
Height (inches):	1-2	1-2
Density:	Medium	Medium
Weed 5 Code:	CAPBP	
Stage (leaves):	10+	
Height (inches):	2-6	
Density:	Low	
Weed 6 Code:	TAROF	
Stage (leaves):	10+	
Height (inches):	1-3	
Density:	Low	
Weed 7 Code:	CERVU	
Stage (leaves):	10+	
Height (inches):	1-2	
Density:	Low	

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Weed 8 Code:                      HORPU  
Stage (leaves) :                5-6  
Height (inches) :              2-3  
Density:                         Medium

**APPLICATION EQUIPMENT**

	<b>A</b>	<b>B</b>
Appl. Equipment:	CO2 sprayer	CO2 sprayer
Operating Pressure:	40 PSI	40 PSI
Nozzle Type:	Flat fan	Flat fan
Nozzle Size:	8002	8002
Boom Length, Unit:	10 FT	10 FT
Spray Volume, Unit:	20 GPA	20 GPA

NOTES:

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Soil N03 ppm 04-05-05 0 DAP  
 Soil NH4 ppm 04-05-05 0 DAP  
 Soil Temp F 04-05-05 0 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code			
1	VALOR	51	WG	0.064	lb ai/a	2	oz/a	FALL	A	4.5	6.0	60
1	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	FALL	A			
1	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	A			
1	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A			
1	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B			
1	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B			
1	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B			
2	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	FALL	A	3.7	6.7	60
2	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	A			
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A			
2	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B			
2	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B			
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B			
3	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B	1.5	5.8	60
3	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B			
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B			
4	NONTREATED									2.7	5.9	59
LSD (P=.05)										1.94	1.13	1.6
Replicate F										1.883	0.363	0.465
Replicate Prob(F)										0.2320	0.7100	0.6491
Treatment F										5.297	1.535	1.254
Treatment Prob(F)										0.0401	0.2993	0.3708

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Soil TEC 04-05-05 0 DAP  
 Soil pH 04-05-05 0 DAP  
 Soil OM Percent 04-05-05 0 DAP  
 Soil ENR 04-05-05 0 DAP  
 Soil Sol\_S 04-05-05 0 DAP  
 Soil P 04-05-05 0 DAP  
 Soil P ppm 04-05-05 0 DAP  
 Soil Ca 04-05-05 0 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code								
1	VALOR	51	WG	0.064	lb ai/a	2	oz/a	FALL	A	9.10	6.5	1.3	46	19	273	60	2545
1	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	FALL	A								
1	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	A								
1	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A								
1	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B								
1	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B								
1	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B								
2	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	FALL	A	9.93	6.5	1.2	45	20	281	61	2785
2	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	A								
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A								
2	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B								
2	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B								
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B								
3	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B	9.36	6.7	1.0	40	19	235	51	2719
3	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B								
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B								
4	NONTREATED									9.23	6.7	1.2	45	18	244	53	2685
LSD (P=.05)										1.434	0.27	0.18	3.7	2.8	34.5	7.5	423.2
Replicate F										4.185	3.350	2.580	2.268	0.887	16.515	16.784	5.934
Replicate Prob(F)										0.0728	0.1054	0.1554	0.1847	0.4596	0.0036	0.0035	0.0379
Treatment F										0.774	1.925	6.315	5.683	1.803	4.931	5.036	0.689
Treatment Prob(F)										0.5498	0.2267	0.0275	0.0346	0.2468	0.0465	0.0445	0.5909

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Soil Ca ppm 04-05-05 0 DAP  
 Soil Mg ppm 04-05-05 0 DAP  
 Soil Mg ppm 04-05-05 0 DAP  
 Soil K ppm 04-05-05 0 DAP  
 Soil K ppm 04-05-05 0 DAP  
 Soil Na ppm 04-05-05 0 DAP  
 Soil Na ppm 04-05-05 0 DAP  
 Soil Ca Percent 04-05-05 0 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	Soil Ca ppm	Soil Mg ppm	Soil Mg ppm	Soil K ppm	Soil K ppm	Soil Na ppm	Soil Na ppm	Soil Ca Percent
1	VALOR	51	WG	0.064	lb ai/a	2	oz/a	FALL	A	1272	255	128	398	199	37	19	69.95
1	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	FALL	A								
1	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	A								
1	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A								
1	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B								
1	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B								
1	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B								
2	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	FALL	A	1393	275	137	405	203	37	18	70.02
2	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	A								
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A								
2	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B								
2	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B								
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B								
3	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B	1360	286	143	387	194	36	18	72.48
3	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B								
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B								
4	NONTREATED									1342	259	129	378	189	28	14	72.72
LSD (P=.05)										211.6	66.2	33.1	37.6	18.8	11.5	5.8	3.761
Replicate F										5.934	5.638	5.638	4.798	4.798	2.017	2.017	3.535
Replicate Prob(F)										0.0379	0.0419	0.0419	0.0569	0.0569	0.2138	0.2138	0.0967
Treatment F										0.689	0.559	0.559	1.220	1.220	1.722	1.722	1.937
Treatment Prob(F)										0.5909	0.6610	0.6610	0.3809	0.3809	0.2612	0.2612	0.2249

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Soil Mg Percent 04-05-05 0 DAP  
 Soil K Percent 04-05-05 0 DAP  
 Soil Na Percent 04-05-05 0 DAP  
 Soil Other Percent 04-05-05 0 DAP  
 Soil H Percent 04-05-05 0 DAP  
 Soil B ppm 04-05-05 0 DAP  
 Soil Fe ppm 04-05-05 0 DAP  
 Soil Mn ppm 04-05-05 0 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	Soil Mg Percent	Soil K Percent	Soil Na Percent	Soil Other Percent	Soil H Percent	Soil B ppm	Soil Fe ppm	Soil Mn ppm
1	VALOR	51	WG	0.064	lb ai/a	2	oz/a	FALL	A	11.68	5.62	0.89	4.87	7.00	0.57	196	162
1	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	FALL	A								
1	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	A								
1	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A								
1	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B								
1	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B								
1	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B								
2	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	FALL	A	11.44	5.32	0.81	4.90	7.50	0.62	202	174
2	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	A								
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A								
2	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B								
2	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B								
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B								
3	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B	12.69	5.32	0.85	4.67	4.00	0.56	183	153
3	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B								
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B								
4	NONTREATED									11.60	5.31	0.66	4.73	5.00	0.53	178	157
LSD (P=.05)										1.573	0.647	0.228	0.275	4.119	0.075	13.6	29.5
Replicate F										5.150	18.238	6.658	3.354	3.353	1.079	58.413	8.426
Replicate Prob(F)										0.0499	0.0028	0.0300	0.1053	0.1053	0.3978	0.0001	0.0181
Treatment F										1.544	0.664	2.229	1.926	1.926	2.741	7.866	1.158
Treatment Prob(F)										0.2974	0.6040	0.1854	0.2266	0.2266	0.1355	0.0168	0.3999

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Soil Cu ppm 04-05-05 0 DAP  
 Soil Zn ppm 04-05-05 0 DAP  
 Soil Al ppm 04-05-05 0 DAP  
 TRZAW Height cm 05-02-05 14 DAE  
 TRZAW Height cm 05-16-05 28 DAE  
 GLXMA Height cm 05-02-05 14 DAE  
 GLXMA Height cm 05-16-05 28 DAE

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	Soil Cu ppm	Soil Zn ppm	Soil Al ppm	TRZAW Height cm	TRZAW Height cm	GLXMA Height cm	GLXMA Height cm
1	VALOR	51	WG	0.064	lb ai/a	2	oz/a	FALL	A	1.46	2.81	408	9	16	6	10
1	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	FALL	A							
1	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	A							
1	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A							
1	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B							
1	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B							
1	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B							
2	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	FALL	A	1.59	3.24	422	10	15	6	11
2	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	A							
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A							
2	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B							
2	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B							
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B							
3	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B	1.46	2.61	411	11	15	7	12
3	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B							
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B							
4	NONTREATED									1.33	2.50	450	8	12	8	14
LSD (P=.05)										0.200	0.767	51.5	3.9	2.8	1.4	4.2
Replicate F										4.128	1.715	5.486	1.940	0.374	1.998	0.904
Replicate Prob(F)										0.0745	0.2576	0.0442	0.2239	0.7028	0.2163	0.4537
Treatment F										3.373	2.157	1.625	1.025	3.526	9.135	1.955
Treatment Prob(F)										0.0957	0.1943	0.2802	0.4454	0.0884	0.0118	0.2222

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ZEAMX Height cm 05-05-05 14 DAE  
 ZEAMX Height cm 05-19-05 28 DAE  
 CYST Number 100 cc 05-18-05 30 DAE  
 PRE ADLT Number 100 cc 05-18-05 30 DAE

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ZEAMX Height cm	ZEAMX Height cm	CYST Number	PRE ADLT Number
1	VALOR	51	WG	0.064	lb ai/a	2	oz/a	FALL	A	9	26	0	0
1	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	FALL	A				
1	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	A				
1	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
1	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B				
1	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B				
1	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B				
2	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	FALL	A	10	28	0	1
2	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	A				
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A				
2	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B				
2	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B				
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B				
3	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B	9	23	0	0
3	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B				
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B				
4	NONTREATED									11	22	0	0
LSD (P=.05)										2.2	5.7	0.6	1.4
Replicate F										0.908	0.154	1.000	0.529
Replicate Prob(F)										0.4523	0.8608	0.4219	0.6141
Treatment F										1.744	2.448	1.000	0.647
Treatment Prob(F)										0.2572	0.1616	0.4547	0.6128

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Weed Code		Crop Code		Rating Data Type		Rating Unit		Rating Date		Trt-Eval Interval		ZEAMX N	ZEAMX P	ZEAMX K	ZEAMX Ca	ZEAMX Mg	ZEAMX S	ZEAMX B	ZEAMX Fe
												Percent	Percent	Percent	Percent	Percent	Percent	ppm	ppm
												05-05-05	05-05-05	05-05-05	05-05-05	05-05-05	05-05-05	05-05-05	05-05-05
												14 DAE	14 DAE	14 DAE	14 DAE	14 DAE	14 DAE	14 DAE	14 DAE
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code										
1	VALOR	51	WG	0.064	lb ai/a	2	oz/a	FALL	A	4.67	0.627	4.34	1.06	0.298	0.313	28.7	572.0		
1	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	FALL	A										
1	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	A										
1	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A										
1	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B										
1	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B										
1	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B										
2	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	FALL	A	4.76	0.626	4.60	1.03	0.307	0.323	16.6	447.9		
2	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	A										
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A										
2	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B										
2	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B										
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B										
3	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B	4.79	0.638	4.47	1.05	0.297	0.284	18.4	355.5		
3	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B										
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B										
4	NONTREATED									3.17	0.650	5.05	0.94	0.321	0.234	13.2	347.8		
LSD (P=.05)										1.059	0.0816	0.427	0.130	0.0310	0.0523	15.76	186.35		
Replicate F										0.003	1.831	13.888	7.832	6.698	1.042	1.862	3.109		
Replicate Prob(F)										0.9973	0.2394	0.0056	0.0212	0.0296	0.4088	0.2349	0.1184		
Treatment F										6.624	0.222	6.253	2.182	1.512	6.862	2.163	3.770		
Treatment Prob(F)										0.0248	0.8777	0.0281	0.1912	0.3045	0.0229	0.1935	0.0783		

Benefits of Fall Applications of Valor.

Project Code: 05-1-E145 Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code		Crop Code		Rating Data Type		Rating Unit		Rating Date		Trt-Eval Interval		ZEAMX Mn	ZEAMX Cu	ZEAMX Zn	ZEAMX Al	ZEAMX N	ZEAMX P	ZEAMX K	ZEAMX Ca
												ppm	ppm	ppm	ppm	Percent	Percent	Percent	Percent
												05-05-05	05-05-05	05-05-05	05-05-05	05-19-05	05-19-05	05-19-05	05-19-05
												14 DAE	14 DAE	14 DAE	14 DAE	28 DAE	28 DAE	28 DAE	28 DAE
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code										
1	VALOR	51	WG	0.064	lb ai/a	2	oz/a	FALL	A	90.8	11.2	59.9	634.6	2.47	0.290	3.68	0.54		
1	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	FALL	A										
1	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	A										
1	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A										
1	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B										
1	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B										
1	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B										
2	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	FALL	A	71.5	9.7	61.4	487.6	2.40	0.288	3.70	0.52		
2	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	A										
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A										
2	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B										
2	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B										
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B										
3	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B	57.2	9.4	58.8	395.6	2.67	0.309	3.67	0.56		
3	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B										
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B										
4	NONTREATED									46.4	10.0	51.8	326.3	2.31	0.695	3.68	0.50		
LSD (P=.05)										39.36	1.91	15.44	176.53	0.295	0.2481	0.327	0.044		
Replicate F										0.711	13.442	1.147	1.950	4.062	0.229	3.174	13.338		
Replicate Prob(F)										0.5282	0.0061	0.3785	0.2227	0.0767	0.8020	0.1148	0.0062		
Treatment F										2.859	2.114	0.900	6.822	3.110	7.784	0.020	4.949		
Treatment Prob(F)										0.1267	0.1998	0.4941	0.0232	0.1101	0.0172	0.9957	0.0462		

Benefits of Fall Applications of Valor.

Project Code: 05-1-E145 Location: Belleville Research Center  
 Investigator: Bryan Young

									ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
									Mg	S	B	Fe	Mn	Cu	Zn	Al
									Percent	Percent	ppm	ppm	ppm	ppm	ppm	ppm
									05-19-05	05-19-05	05-19-05	05-19-05	05-19-05	05-19-05	05-19-05	05-19-05
									28 DAE	28 DAE	28 DAE	28 DAE	28 DAE	28 DAE	28 DAE	28 DAE
Trt	Treatment	Form	Form	Rate	Prod	Prod	Grow	Appl								
No.	Name	Conc	Type	Unit	Rate	Unit	Stg	Code								
1	VALOR	51	WG	0.064	lb ai/a	2 oz/a	FALL	A	0.200	0.227	13.0	298.6	54.8	5.9	23.1	288.5
1	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32 fl oz/a	FALL	A								
1	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25 % v/v	FALL	A								
1	AMS	100	DRY	2.0	% w/w	17 lb/100 gal	FALL	A								
1	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32 fl oz/a	SPRING	B								
1	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25 % v/v	SPRING	B								
1	AMS	100	DRY	2.0	% w/w	17 lb/100 gal	SPRING	B								
2	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32 fl oz/a	FALL	A	0.194	0.216	11.3	197.7	36.6	5.8	24.3	254.9
2	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25 % v/v	FALL	A								
2	AMS	100	DRY	2.0	% w/w	17 lb/100 gal	FALL	A								
2	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32 fl oz/a	SPRING	B								
2	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25 % v/v	SPRING	B								
2	AMS	100	DRY	2.0	% w/w	17 lb/100 gal	SPRING	B								
3	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32 fl oz/a	SPRING	B	0.197	0.242	9.5	353.2	110.2	7.0	26.2	343.3
3	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25 % v/v	SPRING	B								
3	AMS	100	DRY	2.0	% w/w	17 lb/100 gal	SPRING	B								
4	NONTREATED								0.239	0.197	11.6	259.9	45.4	6.6	29.0	308.4
LSD (P=.05)									0.0482	0.0227	6.59	226.40	118.20	1.06	5.03	135.56
Replicate F									2.011	4.399	0.146	3.904	1.967	0.435	1.195	2.223
Replicate Prob(F)									0.2146	0.0666	0.8668	0.0821	0.2204	0.6660	0.3658	0.1895
Treatment F									2.279	8.310	0.574	1.001	0.940	3.329	3.137	0.892
Treatment Prob(F)									0.1796	0.0148	0.6529	0.4542	0.4777	0.0979	0.1085	0.4975

Benefits of Fall Applications of Valor.

Project Code: 05-1-E145 Location: Belleville Research Center  
 Investigator: Bryan Young

									GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
									N	P	K	Ca	Mg	S	B	Fe
									Percent	Percent	Percent	Percent	Percent	Percent	ppm	ppm
									05-02-05	05-02-05	05-02-05	05-02-05	05-02-05	05-02-05	05-02-05	05-02-05
									14 DAE	14 DAE	14 DAE	14 DAE	14 DAE	14 DAE	14 DAE	14 DAE
Trt	Treatment	Form	Form	Rate	Prod	Prod	Grow	Appl								
No.	Name	Conc	Type	Unit	Rate	Unit	Stg	Code								
1	VALOR	51	WG	0.064	lb ai/a	2 oz/a	FALL	A	5.20	0.462	2.71	1.00	0.315	0.363	39.6	409.8
1	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32 fl oz/a	FALL	A								
1	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25 % v/v	FALL	A								
1	AMS	100	DRY	2.0	% w/w	17 lb/100 gal	FALL	A								
1	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32 fl oz/a	SPRING	B								
1	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25 % v/v	SPRING	B								
1	AMS	100	DRY	2.0	% w/w	17 lb/100 gal	SPRING	B								
2	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32 fl oz/a	FALL	A	4.77	0.419	2.50	1.00	0.304	0.336	36.7	621.3
2	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25 % v/v	FALL	A								
2	AMS	100	DRY	2.0	% w/w	17 lb/100 gal	FALL	A								
2	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32 fl oz/a	SPRING	B								
2	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25 % v/v	SPRING	B								
2	AMS	100	DRY	2.0	% w/w	17 lb/100 gal	SPRING	B								
3	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32 fl oz/a	SPRING	B	5.10	0.466	2.46	0.91	0.308	0.356	38.1	437.1
3	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25 % v/v	SPRING	B								
3	AMS	100	DRY	2.0	% w/w	17 lb/100 gal	SPRING	B								
4	NONTREATED								4.43	0.433	2.43	0.90	0.305	0.349	43.3	433.0
LSD (P=.05)									0.549	0.0488	0.232	0.120	0.0229	0.0317	4.45	420.45
Replicate F									0.171	0.740	0.945	2.053	4.251	1.061	8.971	0.718
Replicate Prob(F)									0.8468	0.5160	0.4398	0.2093	0.0708	0.4031	0.0157	0.5255
Treatment F									4.760	2.596	3.560	2.252	0.495	1.643	4.822	0.651
Treatment Prob(F)									0.0499	0.1477	0.0869	0.1827	0.6989	0.2765	0.0486	0.6105

12-06-05 (05-1-E145)

Southern Illinois University

Benefits of Fall Applications of Valor.

Project Code: 05-1-E145 Location: Belleville Research Center  
 Investigator: Bryan Young

									GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
									Mn	Cu	Zn	Al	N	P	K	Ca
									ppm	ppm	ppm	ppm	Percent	Percent	Percent	Percent
									05-02-05	05-02-05	05-02-05	05-02-05	05-16-05	05-16-05	05-16-05	05-16-05
									14 DAE	14 DAE	14 DAE	14 DAE	28 DAE	28 DAE	28 DAE	28 DAE
Trt	Treatment	Form	Form	Rate	Prod	Prod	Grow	Appl								
No.	Name	Conc	Type	Unit	Rate	Unit	Stg	Code								
1	VALOR	51	WG	0.064 lb ai/a	2 oz/a		FALL	A	74.8	11.7	43.3	445.2	2.84	0.266	2.62	1.40
1	ROUNDUP ORIGINAL	3	SL	0.75 lb ae/a	32 fl oz/a		FALL	A								
1	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25 % v/v		FALL	A								
1	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		FALL	A								
1	ROUNDUP ORIGINAL	3	SL	0.75 lb ae/a	32 fl oz/a		SPRING	B								
1	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25 % v/v		SPRING	B								
1	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		SPRING	B								
2	ROUNDUP ORIGINAL	3	SL	0.75 lb ae/a	32 fl oz/a		FALL	A	91.6	11.5	42.3	605.5	3.01	0.280	2.61	1.33
2	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25 % v/v		FALL	A								
2	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		FALL	A								
2	ROUNDUP ORIGINAL	3	SL	0.75 lb ae/a	32 fl oz/a		SPRING	B								
2	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25 % v/v		SPRING	B								
2	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		SPRING	B								
3	ROUNDUP ORIGINAL	3	SL	0.75 lb ae/a	32 fl oz/a		SPRING	B	75.2	14.2	43.2	471.1	3.07	0.305	2.73	1.37
3	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25 % v/v		SPRING	B								
3	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		SPRING	B								
4	NONTREATED								77.6	13.1	43.4	492.2	2.89	0.389	2.94	1.23
LSD (P=.05)									36.78	3.21	3.38	289.15	0.500	0.0599	0.560	0.177
Replicate F									2.078	1.531	0.775	2.307	0.268	0.413	0.246	5.126
Replicate Prob(F)									0.2062	0.2903	0.5017	0.1807	0.7735	0.6788	0.7896	0.0503
Treatment F									0.564	1.782	0.267	0.715	0.525	10.148	0.870	2.190
Treatment Prob(F)									0.6583	0.2505	0.8470	0.5778	0.6812	0.0091	0.5066	0.1901

12-06-05 (05-1-E145)

Southern Illinois University

Benefits of Fall Applications of Valor.

Project Code: 05-1-E145 Location: Belleville Research Center  
 Investigator: Bryan Young

									GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
									Mg	S	B	Fe	Mn	Cu	Zn	Al
									Percent	Percent	ppm	ppm	ppm	ppm	ppm	ppm
									05-16-05	05-16-05	05-16-05	05-16-05	05-16-05	05-16-05	05-16-05	05-16-05
									28 DAE	28 DAE	28 DAE	28 DAE	28 DAE	28 DAE	28 DAE	28 DAE
Trt	Treatment	Form	Form	Rate	Prod	Prod	Grow	Appl								
No.	Name	Conc	Type	Unit	Rate	Unit	Stg	Code								
1	VALOR	51	WG	0.064 lb ai/a	2 oz/a		FALL	A	0.301	0.300	28.6	472.7	70.6	8.8	39.7	498.1
1	ROUNDUP ORIGINAL	3	SL	0.75 lb ae/a	32 fl oz/a		FALL	A								
1	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25 % v/v		FALL	A								
1	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		FALL	A								
1	ROUNDUP ORIGINAL	3	SL	0.75 lb ae/a	32 fl oz/a		SPRING	B								
1	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25 % v/v		SPRING	B								
1	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		SPRING	B								
2	ROUNDUP ORIGINAL	3	SL	0.75 lb ae/a	32 fl oz/a		FALL	A	0.291	0.306	32.7	380.6	66.7	10.0	37.1	476.7
2	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25 % v/v		FALL	A								
2	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		FALL	A								
2	ROUNDUP ORIGINAL	3	SL	0.75 lb ae/a	32 fl oz/a		SPRING	B								
2	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25 % v/v		SPRING	B								
2	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		SPRING	B								
3	ROUNDUP ORIGINAL	3	SL	0.75 lb ae/a	32 fl oz/a		SPRING	B	0.308	0.320	31.4	340.3	57.2	10.6	37.0	396.7
3	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25 % v/v		SPRING	B								
3	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		SPRING	B								
4	NONTREATED								0.297	0.396	34.2	345.6	64.3	11.0	51.3	452.2
LSD (P=.05)									0.0182	0.0212	3.15	331.45	27.45	3.10	9.08	353.33
Replicate F									9.799	4.253	6.568	0.873	2.336	0.309	2.347	0.841
Replicate Prob(F)									0.0129	0.0708	0.0308	0.4646	0.1777	0.7454	0.1766	0.4763
Treatment F									1.861	52.884	6.772	0.409	0.504	1.138	6.716	0.183
Treatment Prob(F)									0.2369	0.0001	0.0236	0.7525	0.6937	0.4066	0.0240	0.9042



Benefits of Fall Applications of Valor.

Project Code: 05-1-E145 Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code  
 Crop Code  
 Rating Data Type  
 Rating Unit  
 Rating Date  
 Trt-Eval Interval

TRZAW N Percent 05-02-05 14 DAE	TRZAW P Percent 05-02-05 14 DAE	TRZAW K Percent 05-02-05 14 DAE	TRZAW Ca Percent 05-02-05 14 DAE	TRZAW Mg Percent 05-02-05 14 DAE	TRZAW S Percent 05-02-05 14 DAE	TRZAW B ppm 05-02-05 14 DAE	TRZAW Fe ppm 05-02-05 14 DAE
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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code								
1	VALOR	51	WG	0.064	lb ai/a	2	oz/a	FALL	A	4.50	0.529	3.67	0.41	0.138	0.420	7.7	247.7
1	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	FALL	A								
1	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	A								
1	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A								
1	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B								
1	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B								
1	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B								
2	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	FALL	A	4.59	0.473	3.53	0.41	0.129	0.389	17.5	235.6
2	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	A								
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A								
2	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B								
2	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B								
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B								
3	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B	4.34	0.522	3.70	0.40	0.137	0.390	4.5	243.4
3	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B								
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B								
4	NONTREATED									3.02	0.511	3.59	0.36	0.135	0.284	6.5	314.0
LSD (P=.05)										0.291	0.1124	0.561	0.062	0.0227	0.0754	10.68	106.69
Replicate F										8.180	2.109	1.548	2.879	1.476	2.196	2.158	0.412
Replicate Prob(F)										0.0193	0.2025	0.2870	0.1329	0.3010	0.1924	0.1968	0.6798
Treatment F										76.229	0.587	0.233	1.441	0.438	7.531	3.504	1.379
Treatment Prob(F)										0.0001	0.6453	0.8706	0.3211	0.7338	0.0185	0.0894	0.3366

Benefits of Fall Applications of Valor.

Project Code: 05-1-E145 Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code  
 Crop Code  
 Rating Data Type  
 Rating Unit  
 Rating Date  
 Trt-Eval Interval

TRZAW Mn ppm 05-02-05 14 DAE	TRZAW Cu ppm 05-02-05 14 DAE	TRZAW Zn ppm 05-02-05 14 DAE	TRZAW Al ppm 05-02-05 14 DAE	TRZAW N Percent 05-16-05 28 DAE	TRZAW P Percent 05-16-05 28 DAE	TRZAW K Percent 05-16-05 28 DAE	TRZAW Ca Percent 05-16-05 28 DAE
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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code								
1	VALOR	51	WG	0.064	lb ai/a	2	oz/a	FALL	A	69.6	8.9	35.3	271.6	4.18	0.497	3.95	0.34
1	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	FALL	A								
1	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	A								
1	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A								
1	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B								
1	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B								
1	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B								
2	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	FALL	A	63.7	9.1	34.6	354.2	4.22	0.529	3.97	0.34
2	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	FALL	A								
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	FALL	A								
2	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B								
2	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B								
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B								
3	ROUNDUP ORIGINAL	3	SL	0.75	lb ae/a	32	fl oz/a	SPRING	B	60.5	12.5	35.8	264.9	3.96	0.517	3.96	0.38
3	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	SPRING	B								
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	SPRING	B								
4	NONTREATED									80.6	11.8	31.7	289.9	3.44	0.606	3.59	0.34
LSD (P=.05)										14.73	1.77	5.64	278.20	0.226	0.0725	0.399	0.060
Replicate F										0.717	4.493	1.754	0.166	3.197	6.051	0.076	1.148
Replicate Prob(F)										0.5258	0.0642	0.2514	0.8508	0.1134	0.0364	0.9274	0.3783
Treatment F										4.339	13.031	1.266	0.257	29.956	5.231	2.617	1.269
Treatment Prob(F)										0.0600	0.0049	0.3673	0.8540	0.0005	0.0412	0.1458	0.3666

Benefits of Fall Applications of Valor.

Project Code: 05-1-E145 Location: Belleville Research Center  
 Investigator: Bryan Young

Trt	Treatment	Form	Form	Rate	Prod	Prod	Grow	Appl	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW
No.	Name	Conc	Type	Unit	Rate	Unit	Stg	Code	Mg	S	B	Fe	Mn	Cu	Zn	Al
									Percent	Percent	ppm	ppm	ppm	ppm	ppm	ppm
									05-16-05	05-16-05	05-16-05	05-16-05	05-16-05	05-16-05	05-16-05	05-16-05
									28 DAE	28 DAE	28 DAE	28 DAE	28 DAE	28 DAE	28 DAE	28 DAE
1	VALOR	51	WG	0.064 lb ai/a	2 oz/a		FALL	A	0.139	0.402	4.9	208.1	65.8	9.9	32.0	195.4
1	ROUNDUP ORIGINAL	3	SL	0.75 lb ae/a	32 fl oz/a		FALL	A								
1	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25 % v/v		FALL	A								
1	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		FALL	A								
1	ROUNDUP ORIGINAL	3	SL	0.75 lb ae/a	32 fl oz/a		SPRING	B								
1	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25 % v/v		SPRING	B								
1	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		SPRING	B								
2	ROUNDUP ORIGINAL	3	SL	0.75 lb ae/a	32 fl oz/a		FALL	A	0.150	0.439	4.3	192.4	61.3	11.1	38.3	210.3
2	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25 % v/v		FALL	A								
2	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		FALL	A								
2	ROUNDUP ORIGINAL	3	SL	0.75 lb ae/a	32 fl oz/a		SPRING	B								
2	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25 % v/v		SPRING	B								
2	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		SPRING	B								
3	ROUNDUP ORIGINAL	3	SL	0.75 lb ae/a	32 fl oz/a		SPRING	B	0.145	0.415	5.1	185.6	61.0	11.0	33.5	268.2
3	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25 % v/v		SPRING	B								
3	AMS	100	DRY	2.0 % w/w	17 lb/100 gal		SPRING	B								
4	NONTREATED								0.133	0.350	4.5	171.6	62.8	12.3	29.2	222.1
LSD (P=.05)									0.0142	0.0441	2.54	82.39	16.89	6.54	9.70	78.08
Replicate F									0.684	1.161	0.636	0.574	0.115	0.560	0.250	0.609
Replicate Prob(F)									0.5400	0.3748	0.5615	0.5917	0.8931	0.5986	0.7866	0.5743
Treatment F									3.436	8.653	0.290	0.405	0.198	0.277	1.839	1.939
Treatment Prob(F)									0.0926	0.0134	0.8314	0.7551	0.8939	0.8403	0.2407	0.2247

Trial Comments

1. Protocol: Valent.
2. Ratings:  
 Crop height and tissue analysis at 14 and 28 days after emergence (center 2 rows of each crop).  
 Soil analysis (nitrogen and temperature) day of planting.  
 Nematode evaluations in the spring at either 14 or 28 days after crop emergence.
3. FALL applications should be applied after November 15.  
 SPRING applications should be applied 1 week prior to planting.  
 Plant crop species according to map, on April 1, or as close to April 1 as possible.  
 Plant crops in 30 inch rows except where drilled, your choice which crops to drill.
4. All crops should be kept weed-free from emergence to 28 days after emergence.
5. Planting dates: corn, soybean, rice, grain sorghum and wheat were planted on April-5-05.  
 Cotton planting was delayed due to delay in shipment until April-12-05.
6. Crop emergence dates: wheat = April-15-05, soybean = April-18-05, corn = April-20-05,  
 grain sorghum = April-20-05 (sparse emergence only), cotton = May-1-05 (sparse emergence only),  
 rice failed to emergence.
7. Abbreviations: Temp = Temperature. DAP = Days after planting. 0 DAP = At planting. DAE = Days after emergence.  
 CYST = Soybean cyst nematode cysts. PRE ADLT = Soybean cyst nematode pre-adult.  
 For SCN evaluations, soil samples were taken 30 days after soybean emergence.  
 TEC is the same as CEC. ENR = Estimated nitrogen release.