

MSU Weed Science Research Program

Potential interactions of fungicide-glyphosate combinations on Cercospora

Trial ID: DS01-10 Study Dir.: Sprague, Hanson  
 Conducted: SVREC Investigator: Christy Sprague

**Date Planted:** 3/31/2010 **Row Spacing:** 30 IN  
**Variety:** ACH 827 & H9027 **No. of Reps:** 4  
**Population:** 4 1/4" spacing **% OM:** 3.2  
**Soil Type:** Clay **pH:** 7.2  
**Plot Size:** 10 X 30 FT **Design:** RANDOMIZED COMPLETE BLOCK

**Tillage:** Fall moldboard plow and spring field cultivation (twice)  
**Fertilizer:** 125 lb/A of nitrogen was applied as urea prior to planting

**Crop and Weed Description**

Weed	Code	Common Name	Scientific Name
1.	POLPY	SMARTWEED, PENNSYLVANIA	POLYGONUM PENNSYLVANICUM L.
2.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
3.	AMAPO	REDROOT PIGWEED, POWELL AMARANTH	AMARANTHUS SP.
Crop	Code	Common Name	
1.	BETVU	BEEET, SUGAR	

**Application Description**

	A	B	C	D	E	F
<b>Application Timing:</b>	2" weeds	+4" weeds	55 DSV	+2 weeks	+4 weeks	+6 weeks
<b>Date Treated:</b>	5/6/2010	6/1/2010	7/7/2010	7/21/2010	8/4/2010	8/19/2010
<b>Time Treated:</b>	11:00am	11:40am	9:15 am	1:00 pm	10:30 am	10:05 am
<b>% Cloud Cover:</b>	45	0	0	70	100	60
<b>Air Temp., Unit:</b>	59 F	78 F	88 F	83 F	85 F	78 F
<b>% Relative Humidity:</b>	45	50	63	50	72	56
<b>Wind Speed/Unit/Dir:</b>	10 mph NW	3 mph W	2 mph S	4 mph NW	4 mph NW	4 mph SW
<b>Soil Temp., Unit:</b>	56 F	74 F	76 F	77 F	75 F	70 F
<b>Soil/Leaf Surface M:</b>	5 5	2 3	5 5	5 5	5 5	5 5
<b>Soil Moist (1=w 5=d):</b>	3	4	4	5	5	5

**Crop Stage at Each Application**

	A	B	C	D	E	F
<b>Crop Name:</b>	BETVU	BETVU	BETVU	BETVU	BETVU	BETVU
<b>Height (In.):</b>	1"	6-8"	16-20"	16-20"	14-18"	18"
<b>Stage (L):</b>	2-4	9-10	20-24	20-25	20-25	20-25

**Weed Stage at Each Application**

	A	B	C	D	E	F
<b>Weed 1 Name:</b>	POLPY	POLPY	POLPY	POLPY	POLPY	POLPY
<b>Height (In.):</b>	1-2"	4"	-	-	-	-
<b>Stage (L):</b>	4-5	20	-	-	-	-
<b>Weed 2 Name:</b>	CHEAL	CHEAL	CHEAL	CHEAL	CHEAL	CHEAL
<b>Height (In.):</b>	1/4-1"	2-4"	-	-	-	-
<b>Stage (L):</b>	4-6	6-8	-	-	-	-
<b>Weed 3 Name:</b>	AMAPO	AMAPO	AMAPO	AMAPO	AMAPO	AMAPO
<b>Height (In.):</b>	-	2-4"	-	-	-	-
<b>Stage (L):</b>	-	5-8	-	-	-	-

**Application Equipment**

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Boom				
	Type	MPH	Type	Size	Height	Spacing	Width	GPA	Carrier	PSI
A	Cub	3.8	AirMix	11003	21"	20"	100"	19	water	28
B	Cub	3.8	AirMix	11003	26"	20"	100"	19	water	28
C	Cub	3.8	AirMix	11003	27"	20"	100"	19	water	28
D	Cub	3.8	AirMix	11003	27"	20"	100"	19	water	28
E	Cub	3.8	AirMix	11003	27"	20"	100"	19	water	28
F	Cub	3.8	AirMix	11003	27"	20"	100"	19	water	28

**Comments:** Rows 1 and 2 were planted to ACH 827RR and Rows 3 and 4 were planted to Hillehog 9027RR.

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Study Dir.: Sprague, Hanson  
 Investigator: Christy Sprague

Weed Code	ACH827	H 9027	CHEAL	POLPY	AMASS
Crop Code	BETVU	BETVU	BETVU		
Rating Data Type	count	count	injury	control	control
Rating Unit	100' row	100' row	percent	percent	percent
Rating Date	5/24/2010	5/24/2010	6/14/2010	6/14/2010	6/14/2010
Trt-Eval Interval	18 DA-A	18 DA-A	39 DA-A	39 DA-A	39 DA-A
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
1	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	189	190	0	99	99	99
1	AMS		WG	17	lb/100 gal	2" weeds	A						
1	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B						
1	AMS		WG	17	lb/100 gal	+ 4" wds	B						
1	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C						
1	AMS		WG	17	lb/100 gal	55 DSV1	C						
2	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	197	188	0	99	99	99
2	AMS		WG	17	lb/100 gal	2" weeds	A						
2	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B						
2	AMS		WG	17	lb/100 gal	+ 4" wds	B						
2	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C						
2	Headline	2.09	L	9.2	fl oz/a	55 DSV1	C						
2	AMS		WG	17	lb/100 gal	55 DSV1	C						
2	Eminent	1	L	13	fl oz/a	+ 2 wks	D						
2	Gem 500 SC	4.17	L	3.5	fl oz/a	+ 4 wks	E						
2	Quadris	2.08	L	15.5	fl oz/a	+ 6 wks	F						
3	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	205	186	0	99	99	99
3	AMS		WG	17	lb/100 gal	2" weeds	A						
3	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B						
3	AMS		WG	17	lb/100 gal	+ 4" wds	B						
3	Eminent	1	L	13	fl oz/a	55 DSV1	C						
3	Eminent	1	L	13	fl oz/a	+ 2 wks	D						
3	Eminent	1	L	13	fl oz/a	+ 4 wks	E						
3	Eminent	1	L	13	fl oz/a	+ 6 wks	F						
4	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	192	190	0	99	98	99
4	AMS		WG	17	lb/100 gal	2" weeds	A						
4	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B						
4	AMS		WG	17	lb/100 gal	+ 4" wds	B						
4	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C						
4	Eminent	1	L	13	fl oz/a	55 DSV1	C						
4	AMS		WG	17	lb/100 gal	55 DSV1	C						
4	Eminent	1	L	13	fl oz/a	+ 2 wks	D						
4	Eminent	1	L	13	fl oz/a	+ 4 wks	E						
4	Eminent	1	L	13	fl oz/a	+ 6 wks	F						
5	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	193	193	0	99	99	99
5	AMS		WG	17	lb/100 gal	2" weeds	A						
5	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B						
5	AMS		WG	17	lb/100 gal	+ 4" wds	B						
5	Headline	2.09	L	9.2	fl oz/a	55 DSV1	C						
5	Headline	2.09	L	9.2	fl oz/a	+ 2 wks	D						
5	Headline	2.09	L	9.2	fl oz/a	+ 4 wks	E						
5	Headline	2.09	L	9.2	fl oz/a	+ 6 wks	F						
6	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	193	191	0	99	99	99
6	AMS		WG	17	lb/100 gal	2" weeds	A						
6	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B						
6	AMS		WG	17	lb/100 gal	+ 4" wds	B						
6	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C						
6	Headline	2.09	L	9.2	fl oz/a	55 DSV1	C						
6	AMS		WG	17	lb/100 gal	55 DSV1	C						
6	Headline	2.09	L	9.2	fl oz/a	+ 2 wks	D						
6	Headline	2.09	L	9.2	fl oz/a	+ 4 wks	E						
6	Headline	2.09	L	9.2	fl oz/a	+ 6 wks	F						

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Weed Code		ACH827	H 9027		CHEAL	POLPY	AMASS						
Crop Code		BETVU	BETVU	BETVU									
Rating Data Type		count	count	injury	control	control	control						
Rating Unit		100' row	100' row	percent	percent	percent	percent						
Rating Date		5/24/2010	5/24/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010						
Trt-Eval Interval		18 DA-A	18 DA-A	39 DA-A	39 DA-A	39 DA-A	39 DA-A						
# Subsamples, Dec.		0	0	0	0	0	0						
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
7	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	203	182	0	99	99	99
7	AMS		WG	17	lb/100 gal	2" weeds	A						
7	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B						
7	AMS		WG	17	lb/100 gal	+ 4" wds	B						
7	Quadris	2.08	L	15.5	fl oz/a	55 DSV1	C						
7	Quadris	2.08	L	15.5	fl oz/a	+ 2 wks	D						
7	Quadris	2.08	L	15.5	fl oz/a	+ 4 wks	E						
7	Quadris	2.08	L	15.5	fl oz/a	+ 6 wks	F						
8	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	200	193	0	99	98	99
8	AMS		WG	17	lb/100 gal	2" weeds	A						
8	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B						
8	AMS		WG	17	lb/100 gal	+ 4" wds	B						
8	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C						
8	Quadris	2.08	L	15.5	fl oz/a	55 DSV1	C						
8	AMS		WG	17	lb/100 gal	55 DSV1	C						
8	Quadris	2.08	L	15.5	fl oz/a	+ 2 wks	D						
8	Quadris	2.08	L	15.5	fl oz/a	+ 4 wks	E						
8	Quadris	2.08	L	15.5	fl oz/a	+ 6 wks	F						
LSD (P=.05)								15.5	23.7	0.0	0.0	1.1	0.0
Standard Deviation								10.6	16.1	0.0	0.0	0.7	0.0
CV								5.37	8.52	0.0	0.0	0.75	0.0

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Weed Code								ACH827	ACH827	ACH827	ACH827	
Crop Code								BETVU	BETVU	BETVU	BETVU	
Rating Data Type								injury	cercospora	cercospora	cercospora	
Rating Unit								percent	1-10	1-10	1-10	
Rating Date								7/13/2010	8/5/2010	8/12/2010	8/19/2010	
Trt-Eval Interval								68 DA-A	91 DA-A	98 DA-A	105 DA-A	
# Subsamples, Dec.								0	0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	0	4	6	6	6
1	AMS		WG	17	lb/100 gal	2" weeds	A					
1	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
1	AMS		WG	17	lb/100 gal	+ 4" wds	B					
1	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C					
1	AMS		WG	17	lb/100 gal	55 DSV1	C					
2	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	5	2	4	4	4
2	AMS		WG	17	lb/100 gal	2" weeds	A					
2	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
2	AMS		WG	17	lb/100 gal	+ 4" wds	B					
2	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C					
2	Headline	2.09	L	9.2	fl oz/a	55 DSV1	C					
2	AMS		WG	17	lb/100 gal	55 DSV1	C					
2	Eminent	1	L	13	fl oz/a	+ 2 wks	D					
2	Gem 500 SC	4.17	L	3.5	fl oz/a	+ 4 wks	E					
2	Quadris	2.08	L	15.5	fl oz/a	+ 6 wks	F					
3	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	1	1	3	3	4
3	AMS		WG	17	lb/100 gal	2" weeds	A					
3	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
3	AMS		WG	17	lb/100 gal	+ 4" wds	B					
3	Eminent	1	L	13	fl oz/a	55 DSV1	C					
3	Eminent	1	L	13	fl oz/a	+ 2 wks	D					
3	Eminent	1	L	13	fl oz/a	+ 4 wks	E					
3	Eminent	1	L	13	fl oz/a	+ 6 wks	F					
4	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	1	2	3	3	3
4	AMS		WG	17	lb/100 gal	2" weeds	A					
4	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
4	AMS		WG	17	lb/100 gal	+ 4" wds	B					
4	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C					
4	Eminent	1	L	13	fl oz/a	55 DSV1	C					
4	AMS		WG	17	lb/100 gal	55 DSV1	C					
4	Eminent	1	L	13	fl oz/a	+ 2 wks	D					
4	Eminent	1	L	13	fl oz/a	+ 4 wks	E					
4	Eminent	1	L	13	fl oz/a	+ 6 wks	F					
5	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	1	2	4	4	5
5	AMS		WG	17	lb/100 gal	2" weeds	A					
5	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
5	AMS		WG	17	lb/100 gal	+ 4" wds	B					
5	Headline	2.09	L	9.2	fl oz/a	55 DSV1	C					
5	Headline	2.09	L	9.2	fl oz/a	+ 2 wks	D					
5	Headline	2.09	L	9.2	fl oz/a	+ 4 wks	E					
5	Headline	2.09	L	9.2	fl oz/a	+ 6 wks	F					
6	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	4	3	4	4	5
6	AMS		WG	17	lb/100 gal	2" weeds	A					
6	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
6	AMS		WG	17	lb/100 gal	+ 4" wds	B					
6	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C					
6	Headline	2.09	L	9.2	fl oz/a	55 DSV1	C					
6	AMS		WG	17	lb/100 gal	55 DSV1	C					
6	Headline	2.09	L	9.2	fl oz/a	+ 2 wks	D					
6	Headline	2.09	L	9.2	fl oz/a	+ 4 wks	E					
6	Headline	2.09	L	9.2	fl oz/a	+ 6 wks	F					

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Weed Code						ACH827		ACH827		ACH827		ACH827	
Crop Code						BETVU		BETVU		BETVU		BETVU	
Rating Data Type						injury		cercospora		cercospora		cercospora	
Rating Unit						percent		1-10		1-10		1-10	
Rating Date						7/13/2010		8/5/2010		8/12/2010		8/19/2010	
Trt-Eval Interval						68 DA-A		91 DA-A		98 DA-A		105 DA-A	
# Subsamples, Dec.						0		0		0		0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
7	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	0	3	4	4	5	
7	AMS		WG	17	lb/100 gal	2" weeds	A						
7	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B						
7	AMS		WG	17	lb/100 gal	+ 4" wds	B						
7	Quadris	2.08	L	15.5	fl oz/a	55 DSV1	C						
7	Quadris	2.08	L	15.5	fl oz/a	+ 2 wks	D						
7	Quadris	2.08	L	15.5	fl oz/a	+ 4 wks	E						
7	Quadris	2.08	L	15.5	fl oz/a	+ 6 wks	F						
8	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	1	3	4	4	5	
8	AMS		WG	17	lb/100 gal	2" weeds	A						
8	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B						
8	AMS		WG	17	lb/100 gal	+ 4" wds	B						
8	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C						
8	Quadris	2.08	L	15.5	fl oz/a	55 DSV1	C						
8	AMS		WG	17	lb/100 gal	55 DSV1	C						
8	Quadris	2.08	L	15.5	fl oz/a	+ 2 wks	D						
8	Quadris	2.08	L	15.5	fl oz/a	+ 4 wks	E						
8	Quadris	2.08	L	15.5	fl oz/a	+ 6 wks	F						
LSD (P=.05)								1.0	0.9	0.6	0.3	0.5	
Standard Deviation								0.7	0.6	0.4	0.2	0.4	
CV								42.76	25.99	10.65	4.45	8.04	

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Weed Code	ACH827	ACH827	ACH827	ACH827	ACH827
Crop Code	BETVU	BETVU	BETVU	BETVU	BETVU
Rating Data Type	cercospora	count	% sugar	yield	RWST
Rating Unit	1-10	100' row	percent	ton/acre	# / ton
Rating Date	9/2/2010	9/14/2010	9/14/2010	9/14/2010	9/14/2010
Trt-Eval Interval	119 DA-A	131 DA-A	131 DA-A	131 DA-A	131 DA-A
# Subsamples, Dec.	0	0	1	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	6	167	16.0	23.6	234.9
1	AMS		WG	17	lb/100 gal	2" weeds	A					
1	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
1	AMS		WG	17	lb/100 gal	+ 4" wds	B					
1	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C					
1	AMS		WG	17	lb/100 gal	55 DSV1	C					
2	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	4	169	18.1	23.6	268.0
2	AMS		WG	17	lb/100 gal	2" weeds	A					
2	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
2	AMS		WG	17	lb/100 gal	+ 4" wds	B					
2	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C					
2	Headline	2.09	L	9.2	fl oz/a	55 DSV1	C					
2	AMS		WG	17	lb/100 gal	55 DSV1	C					
2	Eminent	1	L	13	fl oz/a	+ 2 wks	D					
2	Gem 500 SC	4.17	L	3.5	fl oz/a	+ 4 wks	E					
2	Quadris	2.08	L	15.5	fl oz/a	+ 6 wks	F					
3	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	4	177	17.5	25.6	265.8
3	AMS		WG	17	lb/100 gal	2" weeds	A					
3	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
3	AMS		WG	17	lb/100 gal	+ 4" wds	B					
3	Eminent	1	L	13	fl oz/a	55 DSV1	C					
3	Eminent	1	L	13	fl oz/a	+ 2 wks	D					
3	Eminent	1	L	13	fl oz/a	+ 4 wks	E					
3	Eminent	1	L	13	fl oz/a	+ 6 wks	F					
4	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	4	169	16.6	25.1	249.6
4	AMS		WG	17	lb/100 gal	2" weeds	A					
4	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
4	AMS		WG	17	lb/100 gal	+ 4" wds	B					
4	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C					
4	Eminent	1	L	13	fl oz/a	55 DSV1	C					
4	AMS		WG	17	lb/100 gal	55 DSV1	C					
4	Eminent	1	L	13	fl oz/a	+ 2 wks	D					
4	Eminent	1	L	13	fl oz/a	+ 4 wks	E					
4	Eminent	1	L	13	fl oz/a	+ 6 wks	F					
5	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	5	161	16.0	20.9	238.2
5	AMS		WG	17	lb/100 gal	2" weeds	A					
5	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
5	AMS		WG	17	lb/100 gal	+ 4" wds	B					
5	Headline	2.09	L	9.2	fl oz/a	55 DSV1	C					
5	Headline	2.09	L	9.2	fl oz/a	+ 2 wks	D					
5	Headline	2.09	L	9.2	fl oz/a	+ 4 wks	E					
5	Headline	2.09	L	9.2	fl oz/a	+ 6 wks	F					
6	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	5	165	17.0	23.5	271.3
6	AMS		WG	17	lb/100 gal	2" weeds	A					
6	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
6	AMS		WG	17	lb/100 gal	+ 4" wds	B					
6	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C					
6	Headline	2.09	L	9.2	fl oz/a	55 DSV1	C					
6	AMS		WG	17	lb/100 gal	55 DSV1	C					
6	Headline	2.09	L	9.2	fl oz/a	+ 2 wks	D					
6	Headline	2.09	L	9.2	fl oz/a	+ 4 wks	E					
6	Headline	2.09	L	9.2	fl oz/a	+ 6 wks	F					

MSU Weed Science Research Program

Potential interactions of fungicide-glyphosate combinations on Cercospora

Trial ID: DS01-10  
Conducted: SVREC

Study Dir.: Sprague, Hanson  
Investigator: Christy Sprague

Weed Code	ACH827	ACH827	ACH827	ACH827	ACH827
Crop Code	BETVU	BETVU	BETVU	BETVU	BETVU
Rating Data Type	cercospora	count	% sugar	yield	RWST
Rating Unit	1-10	100' row	percent	ton/acre	# / ton
Rating Date	9/2/2010	9/14/2010	9/14/2010	9/14/2010	9/14/2010
Trt-Eval Interval	119 DA-A	131 DA-A	131 DA-A	131 DA-A	131 DA-A
# Subsamples, Dec.	0	0	1	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
7	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	6	186	17.3	23.7	257.2
7	AMS		WG	17	lb/100 gal	2" weeds	A					
7	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
7	AMS		WG	17	lb/100 gal	+ 4" wds	B					
7	Quadris	2.08	L	15.5	fl oz/a	55 DSV1	C					
7	Quadris	2.08	L	15.5	fl oz/a	+ 2 wks	D					
7	Quadris	2.08	L	15.5	fl oz/a	+ 4 wks	E					
7	Quadris	2.08	L	15.5	fl oz/a	+ 6 wks	F					
8	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	5	167	17.1	25.7	254.6
8	AMS		WG	17	lb/100 gal	2" weeds	A					
8	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
8	AMS		WG	17	lb/100 gal	+ 4" wds	B					
8	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C					
8	Quadris	2.08	L	15.5	fl oz/a	55 DSV1	C					
8	AMS		WG	17	lb/100 gal	55 DSV1	C					
8	Quadris	2.08	L	15.5	fl oz/a	+ 2 wks	D					
8	Quadris	2.08	L	15.5	fl oz/a	+ 4 wks	E					
8	Quadris	2.08	L	15.5	fl oz/a	+ 6 wks	F					
LSD (P=.05)								0.6	26.8	2.50	2.54	39.94
Standard Deviation								0.4	18.0	1.68	1.71	23.88
CV								8.67	10.59	9.91	7.15	9.37

## MSU Weed Science Research Program

Potential interactions of fungicide-glyphosate combinations on Cercospora

Trial ID: DS01-10  
Conducted: SVRECStudy Dir.: Sprague, Hanson  
Investigator: Christy Sprague

Weed Code	ACH827	H 9027	H 9027	H 9027	H 9027							
Crop Code	BETVU	BETVU	BETVU	BETVU	BETVU							
Rating Data Type	RWSA	cercospora	cercospora	cercospora	cercospora							
Rating Unit	# / acre	1-10	1-10	1-10	1-10							
Rating Date	9/14/2010	8/5/2010	8/12/2010	8/19/2010	8/26/2010							
Trt-Eval Interval	131 DA-A	91 DA-A	98 DA-A	105 DA-A	112 DA-A							
# Subsamples, Dec.	0	0	0	0	0							
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	5800	3	4	5	5
1	AMS		WG	17	lb/100 gal	2" weeds	A					
1	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
1	AMS		WG	17	lb/100 gal	+ 4" wds	B					
1	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C					
1	AMS		WG	17	lb/100 gal	55 DSV1	C					
2	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	6421	1	2	2	3
2	AMS		WG	17	lb/100 gal	2" weeds	A					
2	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
2	AMS		WG	17	lb/100 gal	+ 4" wds	B					
2	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C					
2	Headline	2.09	L	9.2	fl oz/a	55 DSV1	C					
2	AMS		WG	17	lb/100 gal	55 DSV1	C					
2	Eminent	1	L	13	fl oz/a	+ 2 wks	D					
2	Gem 500 SC	4.17	L	3.5	fl oz/a	+ 4 wks	E					
2	Quadris	2.08	L	15.5	fl oz/a	+ 6 wks	F					
3	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	7063	1	2	2	2
3	AMS		WG	17	lb/100 gal	2" weeds	A					
3	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
3	AMS		WG	17	lb/100 gal	+ 4" wds	B					
3	Eminent	1	L	13	fl oz/a	55 DSV1	C					
3	Eminent	1	L	13	fl oz/a	+ 2 wks	D					
3	Eminent	1	L	13	fl oz/a	+ 4 wks	E					
3	Eminent	1	L	13	fl oz/a	+ 6 wks	F					
4	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	6234	1	2	2	3
4	AMS		WG	17	lb/100 gal	2" weeds	A					
4	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
4	AMS		WG	17	lb/100 gal	+ 4" wds	B					
4	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C					
4	Eminent	1	L	13	fl oz/a	55 DSV1	C					
4	AMS		WG	17	lb/100 gal	55 DSV1	C					
4	Eminent	1	L	13	fl oz/a	+ 2 wks	D					
4	Eminent	1	L	13	fl oz/a	+ 4 wks	E					
4	Eminent	1	L	13	fl oz/a	+ 6 wks	F					
5	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	4941	2	2	3	4
5	AMS		WG	17	lb/100 gal	2" weeds	A					
5	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
5	AMS		WG	17	lb/100 gal	+ 4" wds	B					
5	Headline	2.09	L	9.2	fl oz/a	55 DSV1	C					
5	Headline	2.09	L	9.2	fl oz/a	+ 2 wks	D					
5	Headline	2.09	L	9.2	fl oz/a	+ 4 wks	E					
5	Headline	2.09	L	9.2	fl oz/a	+ 6 wks	F					
6	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	6627	2	3	3	4
6	AMS		WG	17	lb/100 gal	2" weeds	A					
6	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
6	AMS		WG	17	lb/100 gal	+ 4" wds	B					
6	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C					
6	Headline	2.09	L	9.2	fl oz/a	55 DSV1	C					
6	AMS		WG	17	lb/100 gal	55 DSV1	C					
6	Headline	2.09	L	9.2	fl oz/a	+ 2 wks	D					
6	Headline	2.09	L	9.2	fl oz/a	+ 4 wks	E					
6	Headline	2.09	L	9.2	fl oz/a	+ 6 wks	F					



MSU Weed Science Research Program

Potential interactions of fungicide-glyphosate combinations on Cercospora

Trial ID: DS01-10  
Conducted: SVREC

Study Dir.: Sprague, Hanson  
Investigator: Christy Sprague

Weed Code	ACH827	H 9027	H 9027	H 9027	H 9027							
Crop Code	BETVU	BETVU	BETVU	BETVU	BETVU							
Rating Data Type	RWSA	cercospora	cercospora	cercospora	cercospora							
Rating Unit	# / acre	1-10	1-10	1-10	1-10							
Rating Date	9/14/2010	8/5/2010	8/12/2010	8/19/2010	8/26/2010							
Trt-Eval Interval	131 DA-A	91 DA-A	98 DA-A	105 DA-A	112 DA-A							
# Subsamples, Dec.	0	0	0	0	0							
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
7	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	6051	2	3	3	3
7	AMS		WG	17	lb/100 gal	2" weeds	A					
7	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
7	AMS		WG	17	lb/100 gal	+ 4" wds	B					
7	Quadris	2.08	L	15.5	fl oz/a	55 DSV1	C					
7	Quadris	2.08	L	15.5	fl oz/a	+ 2 wks	D					
7	Quadris	2.08	L	15.5	fl oz/a	+ 4 wks	E					
7	Quadris	2.08	L	15.5	fl oz/a	+ 6 wks	F					
8	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	6782	2	3	3	4
8	AMS		WG	17	lb/100 gal	2" weeds	A					
8	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
8	AMS		WG	17	lb/100 gal	+ 4" wds	B					
8	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C					
8	Quadris	2.08	L	15.5	fl oz/a	55 DSV1	C					
8	AMS		WG	17	lb/100 gal	55 DSV1	C					
8	Quadris	2.08	L	15.5	fl oz/a	+ 2 wks	D					
8	Quadris	2.08	L	15.5	fl oz/a	+ 4 wks	E					
8	Quadris	2.08	L	15.5	fl oz/a	+ 6 wks	F					
LSD (P=.05)								1435.4	0.6	0.6	0.7	0.7
Standard Deviation								858.3	0.4	0.4	0.4	0.5
CV								13.76	25.46	15.7	16.0	15.17

## MSU Weed Science Research Program

Potential interactions of fungicide-glyphosate combinations on Cercospora

Trial ID: DS01-10  
Conducted: SVRECStudy Dir.: Sprague, Hanson  
Investigator: Christy Sprague

Weed Code	H 9027	H 9027	H 9027	H 9027	H 9027
Crop Code	BETVU	BETVU	BETVU	BETVU	BETVU
Rating Data Type	cercospora	count	% sugar	yield	RWST
Rating Unit	1-10	100' row	percent	ton/acre	# / ton
Rating Date	9/2/2010	9/14/2010	9/14/2010	9/14/2010	9/14/2010
Trt-Eval Interval	119 DA-A	131 DA-A	131 DA-A	131 DA-A	131 DA-A
# Subsamples, Dec.	0	0	1	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	5	172	15.0	19.6	217.5
1	AMS		WG	17	lb/100 gal	2" weeds	A					
1	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
1	AMS		WG	17	lb/100 gal	+ 4" wds	B					
1	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C					
1	AMS		WG	17	lb/100 gal	55 DSV1	C					
2	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	3	180	16.1	20.3	236.1
2	AMS		WG	17	lb/100 gal	2" weeds	A					
2	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
2	AMS		WG	17	lb/100 gal	+ 4" wds	B					
2	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C					
2	Headline	2.09	L	9.2	fl oz/a	55 DSV1	C					
2	AMS		WG	17	lb/100 gal	55 DSV1	C					
2	Eminent	1	L	13	fl oz/a	+ 2 wks	D					
2	Gem 500 SC	4.17	L	3.5	fl oz/a	+ 4 wks	E					
2	Quadris	2.08	L	15.5	fl oz/a	+ 6 wks	F					
3	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	3	185	15.8	21.4	232.2
3	AMS		WG	17	lb/100 gal	2" weeds	A					
3	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
3	AMS		WG	17	lb/100 gal	+ 4" wds	B					
3	Eminent	1	L	13	fl oz/a	55 DSV1	C					
3	Eminent	1	L	13	fl oz/a	+ 2 wks	D					
3	Eminent	1	L	13	fl oz/a	+ 4 wks	E					
3	Eminent	1	L	13	fl oz/a	+ 6 wks	F					
4	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	3	195	14.8	19.6	215.1
4	AMS		WG	17	lb/100 gal	2" weeds	A					
4	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
4	AMS		WG	17	lb/100 gal	+ 4" wds	B					
4	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C					
4	Eminent	1	L	13	fl oz/a	55 DSV1	C					
4	AMS		WG	17	lb/100 gal	55 DSV1	C					
4	Eminent	1	L	13	fl oz/a	+ 2 wks	D					
4	Eminent	1	L	13	fl oz/a	+ 4 wks	E					
4	Eminent	1	L	13	fl oz/a	+ 6 wks	F					
5	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	4	196	16.6	21.1	240.2
5	AMS		WG	17	lb/100 gal	2" weeds	A					
5	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
5	AMS		WG	17	lb/100 gal	+ 4" wds	B					
5	Headline	2.09	L	9.2	fl oz/a	55 DSV1	C					
5	Headline	2.09	L	9.2	fl oz/a	+ 2 wks	D					
5	Headline	2.09	L	9.2	fl oz/a	+ 4 wks	E					
5	Headline	2.09	L	9.2	fl oz/a	+ 6 wks	F					
6	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	4	183	14.7	20.6	211.0
6	AMS		WG	17	lb/100 gal	2" weeds	A					
6	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
6	AMS		WG	17	lb/100 gal	+ 4" wds	B					
6	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C					
6	Headline	2.09	L	9.2	fl oz/a	55 DSV1	C					
6	AMS		WG	17	lb/100 gal	55 DSV1	C					
6	Headline	2.09	L	9.2	fl oz/a	+ 2 wks	D					
6	Headline	2.09	L	9.2	fl oz/a	+ 4 wks	E					
6	Headline	2.09	L	9.2	fl oz/a	+ 6 wks	F					

MSU Weed Science Research Program

Potential interactions of fungicide-glyphosate combinations on Cercospora

Trial ID: DS01-10  
Conducted: SVREC

Study Dir.: Sprague, Hanson  
Investigator: Christy Sprague

Weed Code	H 9027	H 9027	H 9027	H 9027	H 9027
Crop Code	BETVU	BETVU	BETVU	BETVU	BETVU
Rating Data Type	cercospora	count	% sugar	yield	RWST
Rating Unit	1-10	100' row	percent	ton/acre	# / ton
Rating Date	9/2/2010	9/14/2010	9/14/2010	9/14/2010	9/14/2010
Trt-Eval Interval	119 DA-A	131 DA-A	131 DA-A	131 DA-A	131 DA-A
# Subsamples, Dec.	0	0	1	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
7	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	4	179	15.7	20.7	230.6
7	AMS		WG	17	lb/100 gal	2" weeds	A					
7	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
7	AMS		WG	17	lb/100 gal	+ 4" wds	B					
7	Quadris	2.08	L	15.5	fl oz/a	55 DSV1	C					
7	Quadris	2.08	L	15.5	fl oz/a	+ 2 wks	D					
7	Quadris	2.08	L	15.5	fl oz/a	+ 4 wks	E					
7	Quadris	2.08	L	15.5	fl oz/a	+ 6 wks	F					
8	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	4	179	15.4	22.8	223.8
8	AMS		WG	17	lb/100 gal	2" weeds	A					
8	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B					
8	AMS		WG	17	lb/100 gal	+ 4" wds	B					
8	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C					
8	Quadris	2.08	L	15.5	fl oz/a	55 DSV1	C					
8	AMS		WG	17	lb/100 gal	55 DSV1	C					
8	Quadris	2.08	L	15.5	fl oz/a	+ 2 wks	D					
8	Quadris	2.08	L	15.5	fl oz/a	+ 4 wks	E					
8	Quadris	2.08	L	15.5	fl oz/a	+ 6 wks	F					
LSD (P=.05)								0.7	26.8	1.80	2.80	28.40
Standard Deviation								0.5	18.1	1.22	1.89	19.19
CV								12.37	9.86	7.84	9.1	8.5

MSU Weed Science Research Program

Potential interactions of fungicide-glyphosate combinations on Cercospora

Trial ID: DS01-10  
Conducted: SVREC

Study Dir.: Sprague, Hanson  
Investigator: Christy Sprague

Weed Code	H 9027
Crop Code	BETVU
Rating Data Type	RWSA
Rating Unit	# / acre
Rating Date	9/14/2010
Trt-Eval Interval	131 DA-A
# Subsamples, Dec.	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	
1	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	4333
1	AMS		WG	17	lb/100 gal	2" weeds	A	
1	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B	
1	AMS		WG	17	lb/100 gal	+ 4" wds	B	
1	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C	
1	AMS		WG	17	lb/100 gal	55 DSV1	C	
2	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	4819
2	AMS		WG	17	lb/100 gal	2" weeds	A	
2	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B	
2	AMS		WG	17	lb/100 gal	+ 4" wds	B	
2	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C	
2	Headline	2.09	L	9.2	fl oz/a	55 DSV1	C	
2	AMS		WG	17	lb/100 gal	55 DSV1	C	
2	Eminent	1	L	13	fl oz/a	+ 2 wks	D	
2	Gem 500 SC	4.17	L	3.5	fl oz/a	+ 4 wks	E	
2	Quadris	2.08	L	15.5	fl oz/a	+ 6 wks	F	
3	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	4970
3	AMS		WG	17	lb/100 gal	2" weeds	A	
3	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B	
3	AMS		WG	17	lb/100 gal	+ 4" wds	B	
3	Eminent	1	L	13	fl oz/a	55 DSV1	C	
3	Eminent	1	L	13	fl oz/a	+ 2 wks	D	
3	Eminent	1	L	13	fl oz/a	+ 4 wks	E	
3	Eminent	1	L	13	fl oz/a	+ 6 wks	F	
4	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	4265
4	AMS		WG	17	lb/100 gal	2" weeds	A	
4	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B	
4	AMS		WG	17	lb/100 gal	+ 4" wds	B	
4	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C	
4	Eminent	1	L	13	fl oz/a	55 DSV1	C	
4	AMS		WG	17	lb/100 gal	55 DSV1	C	
4	Eminent	1	L	13	fl oz/a	+ 2 wks	D	
4	Eminent	1	L	13	fl oz/a	+ 4 wks	E	
4	Eminent	1	L	13	fl oz/a	+ 6 wks	F	
5	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	5059
5	AMS		WG	17	lb/100 gal	2" weeds	A	
5	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B	
5	AMS		WG	17	lb/100 gal	+ 4" wds	B	
5	Headline	2.09	L	9.2	fl oz/a	55 DSV1	C	
5	Headline	2.09	L	9.2	fl oz/a	+ 2 wks	D	
5	Headline	2.09	L	9.2	fl oz/a	+ 4 wks	E	
5	Headline	2.09	L	9.2	fl oz/a	+ 6 wks	F	
6	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	4425
6	AMS		WG	17	lb/100 gal	2" weeds	A	
6	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B	
6	AMS		WG	17	lb/100 gal	+ 4" wds	B	
6	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C	
6	Headline	2.09	L	9.2	fl oz/a	55 DSV1	C	
6	AMS		WG	17	lb/100 gal	55 DSV1	C	
6	Headline	2.09	L	9.2	fl oz/a	+ 2 wks	D	
6	Headline	2.09	L	9.2	fl oz/a	+ 4 wks	E	
6	Headline	2.09	L	9.2	fl oz/a	+ 6 wks	F	

MSU Weed Science Research Program

Potential interactions of fungicide-glyphosate combinations on Cercospora

Trial ID: DS01-10  
Conducted: SVREC

Study Dir.: Sprague, Hanson  
Investigator: Christy Sprague

Weed Code	H 9027
Crop Code	BETVU
Rating Data Type	RWSA
Rating Unit	# / acre
Rating Date	9/14/2010
Trt-Eval Interval	131 DA-A
# Subsamples, Dec.	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	
7	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	4779
7	AMS		WG	17	lb/100 gal	2" weeds	A	
7	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B	
7	AMS		WG	17	lb/100 gal	+ 4" wds	B	
7	Quadris	2.08	L	15.5	fl oz/a	55 DSV1	C	
7	Quadris	2.08	L	15.5	fl oz/a	+ 2 wks	D	
7	Quadris	2.08	L	15.5	fl oz/a	+ 4 wks	E	
7	Quadris	2.08	L	15.5	fl oz/a	+ 6 wks	F	
8	Roundup PowerMax	4.5	L	22	fl oz/a	2" weeds	A	5148
8	AMS		WG	17	lb/100 gal	2" weeds	A	
8	Roundup PowerMax	4.5	L	22	fl oz/a	+ 4" wds	B	
8	AMS		WG	17	lb/100 gal	+ 4" wds	B	
8	Roundup PowerMax	4.5	L	22	fl oz/a	55 DSV1	C	
8	Quadris	2.08	L	15.5	fl oz/a	55 DSV1	C	
8	AMS		WG	17	lb/100 gal	55 DSV1	C	
8	Quadris	2.08	L	15.5	fl oz/a	+ 2 wks	D	
8	Quadris	2.08	L	15.5	fl oz/a	+ 4 wks	E	
8	Quadris	2.08	L	15.5	fl oz/a	+ 6 wks	F	

LSD (P=.05)	1020.8
Standard Deviation	689.7
CV	14.6