

Comparison of RR2 Xtend, RR2 Yield, and LibertyLink soybean weed control systems - "Stewarded"

Trial ID: SOY10-16 Study Dir.: Sprague, Powell, Stiles
 Conducted: Campus T-12 Investigator: Christy Sprague

Planting Date: May-19-2016 **Row Spacing:** 30 IN
Variety: see comments **No. of Reps:** 4
Population: 152000 seeds/A **% OM:** 3.7
Soil Type: CL clay loam **pH:** 6.8
Plot Size: 10 X 35 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel plowed; spring soil finished twice
Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	ANGR	mainly foxtail species	Annual grass
2	CHEAL	lambsquarters, common	Chenopodium album
3	AMAPO	amaranth, Powell	Amaranthus powellii
4	AMBEL	ragweed, common	Ambrosia artemisiifolia
5	ABUTH	velvetleaf	Abutilon theophrasti
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

	A	B
Application Timing:	PRE	POST
Date Treated:	May-19-2016	Jun-9-2016
Time Treated:	4:00 PM	12:30 PM
% Cloud Cover:	10	100
Air Temp., Unit:	72 F	67 F
% Relative Humidity:	30	45
Wind Speed/Unit/Dir:	5 mph N	2 mph SW
Soil Temp, Unit:	62 F	64 F
Leaf Moist/Dew Presence (Y/N):	5	5
Soil Moist:	3	4

Crop Stage at Each Application

	A	B
Crop 1 Name:	GLXMA	GLXMA
Height:		5 "
Stage:		V1

Weed Stage at Each Application

	A	B
Weed 1 Name:	ANGR	ANGR
Height:		1-6 " (3)
Stage:		2-5L
Weed 2 Name:	CHEAL	CHEAL
Height:		1-2 " (1)
Stage:		6-8L
Weed 3 Name:	AMAPO	AMAPO
Height:		.5-2.5 " (2)
Stage:		2-6L
Weed 4 Name:	AMBEL	AMBEL
Height:		1-2 " (1)
Stage:		4-6L
Weed 5 Name:	ABUTH	ABUTH
Height:		1-2 " (2)
Stage:		2-4L

Weed Density

	1	2	3	4	5
Date:	Jun-9-2016	Jun-9-2016	Jun-9-2016	Jun-9-2016	Jun-9-2016
Weed Name:	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Density:	70 FT2	1 FT2	1 FT2	6 FT2	1 FT2

Application Equipment

Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	Spray Volume	Carrier	Operation Pressure
A	CUB	3.8 MPH	AIXR/TTI	11003	22 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
B	CUB	3.8 MPH	AIXR/TTI	11003	22 "	20 "	100 "	19 GAL/AC	WATER	30 PSI

Comparison of RR2 Xtend, RR2 Yield, and LibertyLink soybean weed control systems - "Stewarded"

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Comments: Three soybean varieties were planted AG25X6 RR2XTEND, AG2433 RR2YIELD, and CZ2312 LibertyLink. SelectMax at 12 fl oz/A + COC at 1% v/v were applied on July 15 to control annual grasses.

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Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code		ANGR		ANGR	AMBEL	
Crop Code	GLXMA		GLXMA			GLXMA
Rating Date	Jun-10-2016	Jun-10-2016	Jun-16-2016	Jun-16-2016	Jun-16-2016	Jun-23-2016
Rating Type	injury	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	22 DA-A	22 DA-A	7 DA-B	7 DA-B	7 DA-B	14 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code						
1	RR2 Xtend soybean				0	13	0	96	94	0
1	*TTI - nozzles			A						
1	Rowel	2 oz/a		A						
1	*TTI - nozzles			B						
1	MON 76981	64 fl oz/a		B						
1	Impetro	1 % v/v		B						
2	RR2 Yield soybean				0	23	0	95	95	0
2	*AIXR - nozzles			A						
2	Rowel	2 oz/a		A						
2	*AIXR - nozzles			B						
2	Roundup PowerMax	32 fl oz/a		B						
2	AMS	17 lb/100 gal		B						
3	LibertyLink soybean				6	44	0	94	100	0
3	*AIXR - nozzles			A						
3	Valor	2 oz/a		A						
3	*AIXR - nozzles			B						
3	Liberty	29 fl oz/a		B						
3	AMS	8.5 lb/100 gal		B						
4	RR2 Xtend soybean				3	45	0	95	100	0
4	*TTI - nozzles			A						
4	Rowel	2 oz/a		A						
4	MON 76980	22 fl oz/a		A						
4	*TTI - nozzles			B						
4	MON 76981	64 fl oz/a		B						
4	Impetro	1 % v/v		B						
5	RR2 Yield soybean				0	3	0	98	88	0
5	*AIXR - nozzles			A						
5	Warrant	3 pt/a		A						
5	Metribuzin	5 oz/a		A						
5	*AIXR - nozzles			B						
5	Roundup PowerMax	32 fl oz/a		B						
5	AMS	17 lb/100 gal		B						
6	LibertyLink soybean				5	35	0	96	99	0
6	*AIXR - nozzles			A						
6	Authority MAXX	6.4 oz/a		A						
6	*AIXR - nozzles			B						
6	Liberty	29 fl oz/a		B						
6	AMS	8.5 lb/100 gal		B						

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Crop Code	GLXMA		GLXMA			GLXMA
Rating Date	Jun-10-2016	Jun-10-2016	Jun-16-2016	Jun-16-2016	Jun-16-2016	Jun-23-2016
Rating Type	injury	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	22 DA-A	22 DA-A	7 DA-B	7 DA-B	7 DA-B	14 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code						
7	RR2 Xtend soybean				5	50	5	96	98	5
7	*TTI - nozzles			A						
7	Rowel	2 oz/a		A						
7	MON 76980	22 fl oz/a		A						
7	*TTI - nozzles			B						
7	Warrant	3 pt/a		B						
7	MON 76981	64 fl oz/a		B						
7	Impetro	1 % v/v		B						
8	RR2 Yield soybean				13	24	15	97	97	12
8	*AIXR - nozzles			A						
8	Warrant	3 pt/a		A						
8	Metribuzin	5 oz/a		A						
8	*AIXR - nozzles			B						
8	Warrant Ultra	50 fl oz/a		B						
8	Roundup PowerMax	32 fl oz/a		B						
8	AMS	17 lb/100 gal		B						
9	LibertyLink soybean				5	31	13	94	100	7
9	*AIXR - nozzles			A						
9	Authority MAXX	6.4 oz/a		A						
9	*AIXR - nozzles			B						
9	Zidua	2 oz/a		B						
9	Liberty	29 fl oz/a		B						
9	AMS	8.5 lb/100 gal		B						
10	RR2 Xtend soybean				0	0	0	0	0	0
10	Untreated									
11	RR2 Yield soybean				0	0	0	0	0	0
11	Untreated									
12	LibertyLink soybean				0	0	0	0	0	0
12	Untreated									
LSD	P=.05				5.9	13.5	1.2	2.3	5.5	2.0
	Standard Deviation				4.1	9.4	0.8	1.6	3.8	1.4
	CV				136.73	42.28	30.77	2.26	5.28	68.16

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Pest Code	ANGR	CHEAL	AMBEL	ABUTH		ANGR	CHEAL
Crop Code					GLXMA		
Rating Date	Jun-23-2016	Jun-23-2016	Jun-23-2016	Jun-23-2016	Jul-7-2016	Jul-7-2016	Jul-7-2016
Rating Type	control	control	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	28 DA-B	28 DA-B	28 DA-B
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate Unit	Appl Code							
1	RR2 Xtend soybean			90	100	99	100	0	66	99
1	*TTI - nozzles		A							
1	Rowel	2 oz/a	A							
1	*TTI - nozzles		B							
1	MON 76981	64 fl oz/a	B							
1	Impetro	1 % v/v	B							
2	RR2 Yield soybean			91	100	96	100	0	65	89
2	*AIXR - nozzles		A							
2	Rowel	2 oz/a	A							
2	*AIXR - nozzles		B							
2	Roundup PowerMax	32 fl oz/a	B							
2	AMS	17 lb/100 gal	B							
3	LibertyLink soybean			86	99	81	94	0	58	96
3	*AIXR - nozzles		A							
3	Valor	2 oz/a	A							
3	*AIXR - nozzles		B							
3	Liberty	29 fl oz/a	B							
3	AMS	8.5 lb/100 gal	B							
4	RR2 Xtend soybean			95	100	100	100	0	83	100
4	*TTI - nozzles		A							
4	Rowel	2 oz/a	A							
4	MON 76980	22 fl oz/a	A							
4	*TTI - nozzles		B							
4	MON 76981	64 fl oz/a	B							
4	Impetro	1 % v/v	B							
5	RR2 Yield soybean			94	100	94	100	0	71	96
5	*AIXR - nozzles		A							
5	Warrant	3 pt/a	A							
5	Metribuzin	5 oz/a	A							
5	*AIXR - nozzles		B							
5	Roundup PowerMax	32 fl oz/a	B							
5	AMS	17 lb/100 gal	B							
6	LibertyLink soybean			80	98	95	96	0	51	100
6	*AIXR - nozzles		A							
6	Authority MAXX	6.4 oz/a	A							
6	*AIXR - nozzles		B							
6	Liberty	29 fl oz/a	B							
6	AMS	8.5 lb/100 gal	B							

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Pest Code	ANGR	CHEAL	AMBEL	ABUTH	GLXMA	ANGR	CHEAL
Crop Code							
Rating Date	Jun-23-2016	Jun-23-2016	Jun-23-2016	Jun-23-2016	Jul-7-2016	Jul-7-2016	Jul-7-2016
Rating Type	control	control	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	28 DA-B	28 DA-B	28 DA-B
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate Unit	Appl Code	ANGR	CHEAL	AMBEL	ABUTH	GLXMA	ANGR	CHEAL
7	RR2 Xtend soybean			95	100	100	100	0	84	100
7	*TTI - nozzles		A							
7	Rowel	2 oz/a	A							
7	MON 76980	22 fl oz/a	A							
7	*TTI - nozzles		B							
7	Warrant	3 pt/a	B							
7	MON 76981	64 fl oz/a	B							
7	Impetro	1 % v/v	B							
8	RR2 Yield soybean			96	99	90	100	0	76	91
8	*AIXR - nozzles		A							
8	Warrant	3 pt/a	A							
8	Metribuzin	5 oz/a	A							
8	*AIXR - nozzles		B							
8	Warrant Ultra	50 fl oz/a	B							
8	Roundup PowerMax	32 fl oz/a	B							
8	AMS	17 lb/100 gal	B							
9	LibertyLink soybean			85	99	94	100	0	60	97
9	*AIXR - nozzles		A							
9	Authority MAXX	6.4 oz/a	A							
9	*AIXR - nozzles		B							
9	Zidua	2 oz/a	B							
9	Liberty	29 fl oz/a	B							
9	AMS	8.5 lb/100 gal	B							
10	RR2 Xtend soybean			0	0	0	0	0	0	0
10	Untreated									
11	RR2 Yield soybean			0	0	0	0	0	0	0
11	Untreated									
12	LibertyLink soybean			0	0	0	0	0	0	0
12	Untreated									
LSD	P=.05			3.1	1.5	9.4	2.9	.	7.6	4.6
Standard Deviation				2.2	1.1	6.6	2.0	0.0	5.3	3.2
CV				3.19	1.42	9.28	2.76	0.0	10.28	4.43

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Pest Code	AMBEL	AMAPO	GLYMX	ANGR	CHEAL	AMAPO	AMBEL
Crop Code							
Rating Date	Jul-7-2016	Jul-7-2016	Aug-4-2016	Aug-4-2016	Aug-4-2016	Aug-4-2016	Aug-4-2016
Rating Type	control	control	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	28 DA-B	28 DA-B	56 DA-B	56 DA-B	56 DA-B	56 DA-B	56 DA-B
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate Unit	Appl Code							
1	RR2 Xtend soybean			99	100	0	98	100	100	99
1	*TTI - nozzles		A							
1	Rowel	2 oz/a	A							
1	*TTI - nozzles		B							
1	MON 76981	64 fl oz/a	B							
1	Impetro	1 % v/v	B							
2	RR2 Yield soybean			94	98	0	99	91	100	78
2	*AIXR - nozzles		A							
2	Rowel	2 oz/a	A							
2	*AIXR - nozzles		B							
2	Roundup PowerMax	32 fl oz/a	B							
2	AMS	17 lb/100 gal	B							
3	LibertyLink soybean			89	100	0	96	95	100	73
3	*AIXR - nozzles		A							
3	Valor	2 oz/a	A							
3	*AIXR - nozzles		B							
3	Liberty	29 fl oz/a	B							
3	AMS	8.5 lb/100 gal	B							
4	RR2 Xtend soybean			100	100	0	99	100	100	100
4	*TTI - nozzles		A							
4	Rowel	2 oz/a	A							
4	MON 76980	22 fl oz/a	A							
4	*TTI - nozzles		B							
4	MON 76981	64 fl oz/a	B							
4	Impetro	1 % v/v	B							
5	RR2 Yield soybean			90	100	0	100	96	96	61
5	*AIXR - nozzles		A							
5	Warrant	3 pt/a	A							
5	Metribuzin	5 oz/a	A							
5	*AIXR - nozzles		B							
5	Roundup PowerMax	32 fl oz/a	B							
5	AMS	17 lb/100 gal	B							
6	LibertyLink soybean			97	98	0	98	100	97	88
6	*AIXR - nozzles		A							
6	Authority MAXX	6.4 oz/a	A							
6	*AIXR - nozzles		B							
6	Liberty	29 fl oz/a	B							
6	AMS	8.5 lb/100 gal	B							

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Pest Code	AMBEL	AMAPO	GLYMX	ANGR	CHEAL	AMAPO	AMBEL
Crop Code							
Rating Date	Jul-7-2016	Jul-7-2016	Aug-4-2016	Aug-4-2016	Aug-4-2016	Aug-4-2016	Aug-4-2016
Rating Type	control	control	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	28 DA-B	28 DA-B	56 DA-B	56 DA-B	56 DA-B	56 DA-B	56 DA-B
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate Unit	Appl Code	AMBEL	AMAPO	GLYMX	ANGR	CHEAL	AMAPO	AMBEL
7	RR2 Xtend soybean			100	100	0	99	100	100	100
7	*TTI - nozzles		A							
7	Rowel	2 oz/a	A							
7	MON 76980	22 fl oz/a	A							
7	*TTI - nozzles		B							
7	Warrant	3 pt/a	B							
7	MON 76981	64 fl oz/a	B							
7	Impetro	1 % v/v	B							
8	RR2 Yield soybean			90	99	0	100	88	98	74
8	*AIXR - nozzles		A							
8	Warrant	3 pt/a	A							
8	Metribuzin	5 oz/a	A							
8	*AIXR - nozzles		B							
8	Warrant Ultra	50 fl oz/a	B							
8	Roundup PowerMax	32 fl oz/a	B							
8	AMS	17 lb/100 gal	B							
9	LibertyLink soybean			96	100	0	99	100	100	90
9	*AIXR - nozzles		A							
9	Authority MAXX	6.4 oz/a	A							
9	*AIXR - nozzles		B							
9	Zidua	2 oz/a	B							
9	Liberty	29 fl oz/a	B							
9	AMS	8.5 lb/100 gal	B							
10	RR2 Xtend soybean			0	0	0	0	0	0	0
10	Untreated									
11	RR2 Yield soybean			0	0	0	0	0	0	0
11	Untreated									
12	LibertyLink soybean			0	0	0	0	0	0	0
12	Untreated									
LSD P=.05				5.8	2.8	.	3.4	6.8	3.0	12.5
Standard Deviation				4.1	1.9	0.0	2.4	4.7	2.1	8.7
CV				5.69	2.58	0.0	3.2	6.51	2.84	13.73

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Pest Code	ABUTH	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code						
Rating Date	Aug-4-2016	Oct-10-2016	Oct-10-2016	Oct-10-2016	Oct-10-2016	Oct-10-2016
Rating Type	control	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	56 DA-B	123 DA-B	123 DA-B	123 DA-B	123 DA-B	123 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	ABUTH	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
1	RR2 Xtend soybean				100	100	100	100	99	100
1	*TTI - nozzles			A						
1	Rowel	2 oz/a		A						
1	*TTI - nozzles			B						
1	MON 76981	64 fl oz/a		B						
1	Impetro	1 % v/v		B						
2	RR2 Yield soybean				95	100	88	100	76	91
2	*AIXR - nozzles			A						
2	Rowel	2 oz/a		A						
2	*AIXR - nozzles			B						
2	Roundup PowerMax	32 fl oz/a		B						
2	AMS	17 lb/100 gal		B						
3	LibertyLink soybean				93	99	90	94	75	85
3	*AIXR - nozzles			A						
3	Valor	2 oz/a		A						
3	*AIXR - nozzles			B						
3	Liberty	29 fl oz/a		B						
3	AMS	8.5 lb/100 gal		B						
4	RR2 Xtend soybean				100	100	95	100	94	100
4	*TTI - nozzles			A						
4	Rowel	2 oz/a		A						
4	MON 76980	22 fl oz/a		A						
4	*TTI - nozzles			B						
4	MON 76981	64 fl oz/a		B						
4	Impetro	1 % v/v		B						
5	RR2 Yield soybean				100	100	78	100	71	95
5	*AIXR - nozzles			A						
5	Warrant	3 pt/a		A						
5	Metribuzin	5 oz/a		A						
5	*AIXR - nozzles			B						
5	Roundup PowerMax	32 fl oz/a		B						
5	AMS	17 lb/100 gal		B						
6	LibertyLink soybean				100	98	96	95	84	99
6	*AIXR - nozzles			A						
6	Authority MAXX	6.4 oz/a		A						
6	*AIXR - nozzles			B						
6	Liberty	29 fl oz/a		B						
6	AMS	8.5 lb/100 gal		B						

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Pest Code		
Crop Code	GLXMA	GLXMA
Rating Date	Nov-1-2016	Nov-1-2016
Rating Type	moisture	yield
Rating Unit	percent	bu/acre
Trt-Eval Interval	145 DA-B	at 13% M
Number of Decimals	1	1

Trt No.	Treatment Name	Rate Unit	Appl Code		
1	RR2 Xtend soybean			15.3	74.9
1	*TTI - nozzles		A		
1	Rowel	2 oz/a	A		
1	*TTI - nozzles		B		
1	MON 76981	64 fl oz/a	B		
1	Impetro	1 % v/v	B		
2	RR2 Yield soybean			14.7	77.7
2	*AIXR - nozzles		A		
2	Rowel	2 oz/a	A		
2	*AIXR - nozzles		B		
2	Roundup PowerMax	32 fl oz/a	B		
2	AMS	17 lb/100 gal	B		
3	LibertyLink soybean			15.4	78.5
3	*AIXR - nozzles		A		
3	Valor	2 oz/a	A		
3	*AIXR - nozzles		B		
3	Liberty	29 fl oz/a	B		
3	AMS	8.5 lb/100 gal	B		
4	RR2 Xtend soybean			15.1	73.1
4	*TTI - nozzles		A		
4	Rowel	2 oz/a	A		
4	MON 76980	22 fl oz/a	A		
4	*TTI - nozzles		B		
4	MON 76981	64 fl oz/a	B		
4	Impetro	1 % v/v	B		
5	RR2 Yield soybean			14.8	80.4
5	*AIXR - nozzles		A		
5	Warrant	3 pt/a	A		
5	Metribuzin	5 oz/a	A		
5	*AIXR - nozzles		B		
5	Roundup PowerMax	32 fl oz/a	B		
5	AMS	17 lb/100 gal	B		
6	LibertyLink soybean			15.3	77.2
6	*AIXR - nozzles		A		
6	Authority MAXX	6.4 oz/a	A		
6	*AIXR - nozzles		B		
6	Liberty	29 fl oz/a	B		
6	AMS	8.5 lb/100 gal	B		

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Study Director: Sprague, Powell, Stiles

Pest Code		
Crop Code	GLXMA	GLXMA
Rating Date	Nov-1-2016	Nov-1-2016
Rating Type	moisture	yield
Rating Unit	percent	bu/acre
Trt-Eval Interval	145 DA-B	at 13% M
Number of Decimals	1	1

Trt No.	Treatment Name	Rate Unit	Appl Code		
7	RR2 Xtend soybean			15.1	69.9
7	*TTI - nozzles		A		
7	Rowel	2 oz/a	A		
7	MON 76980	22 fl oz/a	A		
7	*TTI - nozzles		B		
7	Warrant	3 pt/a	B		
7	MON 76981	64 fl oz/a	B		
7	Impetro	1 % v/v	B		
8	RR2 Yield soybean			15.0	80.8
8	*AIXR - nozzles		A		
8	Warrant	3 pt/a	A		
8	Metribuzin	5 oz/a	A		
8	*AIXR - nozzles		B		
8	Warrant Ultra	50 fl oz/a	B		
8	Roundup PowerMax	32 fl oz/a	B		
8	AMS	17 lb/100 gal	B		
9	LibertyLink soybean			15.2	86.0
9	*AIXR - nozzles		A		
9	Authority MAXX	6.4 oz/a	A		
9	*AIXR - nozzles		B		
9	Zidua	2 oz/a	B		
9	Liberty	29 fl oz/a	B		
9	AMS	8.5 lb/100 gal	B		
10	RR2 Xtend soybean			15.3	39.8
10	Untreated				
11	RR2 Yield soybean			15.6	34.1
11	Untreated				
12	LibertyLink soybean			15.2	40.3
12	Untreated				
LSD	P=.05			0.85	8.52
Standard Deviation				0.59	5.92
CV				3.92	8.75