

University of Wisconsin-Madison

Low Tunnel Herbicide Formulation Evaluations							
Trial ID: 20-ARL-SB23			Location: Arlington, WI Trial Year: 2020				
Protocol ID: HD20USABP2			Investigator: Rodrigo Werle				
Project ID:			Study Director: Sarah Striegel				
Sponsor Contact:							

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Unit	Appl Unit	Comment Code 1	Amt Product to Measure	Plots: 5 by 50 feet		
									Rep 1	Rep 2	Rep 3
1	Untreated Check			AB	blank spray				101	207	303
2	MON 76980	350	gA/L	L	44 fl oz/a	AB		11.46 mL/mx	102	208	301
	MON 79789	540	gA/L	SL	64 fl oz/a	AB		16.67 mL/mx			
	MON 301656	43.2	%AW/W	XL	1 % v/v	AB		4.999 mL/mx			
3	MON 76980	350	gA/L	L	44 fl oz/a	AB		11.46 mL/mx	103	201	308
	MON 79789	540	gA/L	SL	64 fl oz/a	AB		16.67 mL/mx			
	MON 301656	43.2	%AW/W	XL	1 % v/v	AB		4.999 mL/mx			
	MON 51817	394	gA/L	SL	2 % v/v	AB		9.999 mL/mx			
4	MON 301822	424	gA/L	EW	46 fl oz/a	AB		11.98 mL/mx	104	202	305
	MON 79789	540	gA/L	SL	64 fl oz/a	AB		16.67 mL/mx			
5	MON 301859	409	gA/L	ME	48 fl oz/a	AB		12.5 mL/mx	105	206	307
	MON 79789	540	gA/L	SL	64 fl oz/a	AB		16.67 mL/mx			
6	MON 301621	564	gA/L	ME	128 fl oz/a	AB		33.33 mL/mx	106	205	304
7	MON 301848	645	gA/L	ME	110 fl oz/a	AB		28.65 mL/mx	107	203	306
8	MON 301848	645	gA/L	ME	110 fl oz/a	AB		28.65 mL/mx	108	204	302
	MON 51817	394	gA/L	SL	2 % v/v	AB		9.999 mL/mx			

Sort Order: Replicate 1

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Treatment Name	Form Conc	Form Unit	Form Type	Lot Code
57.292	mL	MON 76980	350	gA/L	L	
166.667	mL	MON 79789	540	gA/L	SL	
24.997	mL	MON 301656	43.2	%AW/W	XL	
49.995	mL	MON 51817	394	gA/L	SL	
29.948	mL	MON 301822	424	gA/L	EW	
31.250	mL	MON 301859	409	gA/L	ME	
83.333	mL	MON 301621	564	gA/L	ME	
143.229	mL	MON 301848	645	gA/L	ME	

* 'Per area' calculations based on application amount= 15 GAL/AC, mix size= 0.5 L (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

* 'Per volume' calculations use spray volume= 15 GAL/AC, mix size= 0.5 L.

* Adjusted for multiple applications in treatment list.

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 Protocol ID: HD20USABP2
 Project ID:

Location: Arlington, WI Trial Year: 2020
 Investigator: Rodrigo Werle
 Study Director: Sarah Striegel
 Sponsor Contact:

Reps: 3 Plots: 5 by 50 feet
 Appl. Amount: 15 GAL/AC Mix Size: 0.5 L (total for 3 plots; minimum=0.9776 L)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Appl Unit	Comment Code 1	Amt to Measure	Rep 1	Rep 2	Rep 3
1	Untreated Check				AB	blank spray		101	207	303	
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Sprayed
9:06 AM
9:17

Placed
9:10 - 9:12
9:24 - 9:25

9:17
9:30

9:36 - 9:37

9:30

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	MON 79789	540 gA/L	SL	64 fl oz/a	AB		16.67 mL/mx		9:26	9:29	9:30
5	MON 301859	409 gA/L	ME	48 fl oz/a	AB		12.5 mL/mx		105	206	307
	MON 79789	540 gA/L	SL	64 fl oz/a	AB		16.67 mL/mx				
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	MON 51817	394 gA/L	SL	2 % v/v	AB		9.999 mL/mx		9:14	9:15	9:16

Spray End

NOTES

9:22

9:30

9:17

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X 9:24 / 9:25 (9:24)

X 9:37 / 9:38 / 9:39
X 9:12 / 9:13 / 9:14

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N side of
452
in front of BG maresta?

spray sheet

9:05 am

8:9:18 am

9:20 am

9:22 am

9:31 am

9:33 am

9:07 am

9:09 am

* Started spraying from E side

wind spray after TR 8

sprayed from E side

wind was very negligible

Weather 10% clouds

RH 74.4%

Temp air 80.2°F

Soil 68°F

Wind 0-1.5 range

0.8 avg

W? (very still)

1,7,8 (WR)

RH 74.4%

2,3 (WR)

Temp air 80.2°F

4 (WR)

Soil 68°F

5 (WR)

Wind 0-1.5 range

6 (WR) 36 psi

0.8 avg

W? (very still)

N↑ 1 2
3 4

14 DAT - NA recorded
SS rated
KG/NA heights/counts
R2 soybean, not much injury

Trial: 20-ARL-SB23

Date: 14 DAT - 7/27 28 DAT -

Rating:

Plot:	Distance from 0 (ft)	14 DAT		28 DAT	
		Injury	cm Height	Injury	Height
101	0	0	32	0	56
Quadrant selected:	4	1	35	1	63
Total plants in 25'	141	2	37	2	59
Injured plants in 25':	0	3	31	3	57
injured 28 DAT: 6		4	31		56
		5	32		57
		6	30		55
		7	33		60
		8	33		56
		9	32		56
		10	31		58
		11	31		54
		12	34		56
		13	35		57
		14	29		60
		15	38		58
		16	32		59
		17	34		60
		18	34		59
		19	32		56
		20	30		60
		21	31		61
		22	32		59
		23	38		61
		24	30		59
		25	33	-	60

Plot:	Distance from 0 (ft)	14 DAT		28 DAT	
		Injury	Height	Injury	Height
102	0	7	33	5	49
Quadrant selected:	4	1	25	25	54
Total plants in 25'	162	2	27	0	52
Injured plants in 25':	11	3	30	1	62
injured 28 DAT: 14		4	31		56
		5	33		57
		6	31		58
		7	32		60
		8	31		59
		9	34		56
		10	29		57
		11	30		60
		12	33		60
		13	36		61
		14	32		63
		15	34		63
		16	33		62
		17	32		64
		18	34		69
		19	34		60
		20	35		57
		21	32		58
		22	37		61
		23	33		61
		24	35		57
		25	36	-	59

Trial: 20-ARL-SB23

Date: 14 DAT - 7/27 28 DAT -

Rating:

	Distance from 0 (ft)	14 DAT		28 DAT	
		Injury	Height	Injury	Height
Plot:	103	0	31	0	60
Quadrant selected:	4	1	31	1	56
Total plants in 25'	172	2	32	57	
Injured plants in 25':	6	3	36	54	
injured 28 DAT:	0	4	29	53	
	5	29	52		
	6	30	56		
	7	37	51		
	8	35	59		
	9	36	57		
	10	32	59		
	11	33	54		
	12	33	55		
	13	34	58		
	14	33	53		
	15	33	52		
	16	31	54		
	17	30	56		
	18	38	69		
	19	33	60		
	20	33	64		
	21	32	63		
	22	33	56		
	23	28	50		
	24	29	52		
	25	+	30	-	44

	Distance from 0 (ft)	14 DAT		28 DAT	
		Injury	Height	Injury	Height
Plot:	104	0	34	0	51
Quadrant selected:	2	1	5	33	51
Total plants in 25'	165	2	0	28	52
Injured plants in 25':	4	3	1	28	52
injured 28 DAT:	0	4	29	54	
	5	31	54		
	6	33	55		
	7	26	50		
	8	27	54		
	9	32	55		
	10	29	58		
	11	34	58		
	12	29	57		
	13	36	55		
	14	35	62		
	15	33	58		
	16	35	59		
	17	33	57		
	18	37	63		
	19	38	59		
	20	34	54		
	21	34	58		
	22	32	57		
	23	37	60		
	24	32	55		
	25	29	58		

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105: 10/5/7/4/5/0

106: 10/12/10/15/15/20/20/10/5/5/2/0

107: 25/15/12/12/12/10/5/5/3/0

108: 2/0

Trial: 20-ARL-SB23

Date: 14 DAT - 7/27 28 DAT -

Rating:

	Distance from 0 (ft)	14 DAT		28 DAT	
		Injury	Height	Injury	Height
Plot:	105	0	1	32	0
Quadrant selected:	2	1	0	31	5
Total plants in 25'	168	2	5	33	5
Injured plants in 25':	12	3	7	35	0
injured 28 DAT:	8	4	4	36	2
	5	5	35	2	60
	6	0	36	0	57
	7		32	1	57
	8		36		63
	9		33		61
	10		35		61
	11		32		64
	12		33		61
	13		33		57
	14		38		57
	15		35		56
	16		33		57
	17		33		59
	18		34		59
	19		31		59
	20		32		55
	21		31		58
	22		34		59
	23		34		63
	24		28		54
	25		31		55

	Distance from 0 (ft)	14 DAT		28 DAT	
		Injury	Height	Injury	Height
Plot:	106	0	10	27	15
Quadrant selected:	2	1	12	32	17
Total plants in 25'	152	2	10	35	19
Injured plants in 25':	53	3	15	34	15
injured 28 DAT:	53	4	15	35	15
	5	20	32	15	56
	6	20	34	8	57
	7	10	36	7	58
	8	5	34	5	57
	9	5	36	0	59
	10	2	37		60
	11	0	36		58
	12		36		61
	13		37		103
	14		32		61
	15		35		53
	16		36		102
	17		36		59
	18		36		100
	19		35		58
	20		34		100
	21		33		57
	22		34		61
	23		31		63
	24		35		59
	25		32		53

Trial: 820-ARL-SB23

Date: 14 DAT - 7/27 28 DAT -

Rating:

	Plot:	Distance from 0 (ft)	14 DAT		28 DAT	
			Injury	Height	Injury	Height
	107	0	25	27	17	54
Quadrant selected:	2	1	15	28	10	53
Total plants in 25'	174	2	12	29	19	57
Injured plants in 25':	42	3	12	30	15	59
Injured 28 DAT: 51		4	12	30	10	55
		5	12	31	12	54
		6	10	30	7	58
		7	5	31	2	55
		8	5	35	0	55
		9	3	29	1	59
		10	0	33		56
		11		33		100
		12		29		59
		13		34		510
		14		33		104
		15		32		59
		16		32		103
		17		31		60
		18		33		100
		19		34		57
		20		32		56
		21		32		59
		22		31		58
		23		30		101
		24		30		59
		25		31	-	101

	Plot:	Distance from 0 (ft)	14 DAT		28 DAT	
			Injury	Height	Injury	Height
	108	0	3	36	0	103
Quadrant selected:	2	1	0	37		103
Total plants in 25'	135	2	1	37		103
Injured plants in 25':	8	3		34		102
Injured 28 DAT: 0		4		33		102
		5		33		69
		6		37		106
		7		34		106
		8		39		103
		9		35		101
		10		36		102
		11		42		107
		12		37		106
		13		36		104
		14		40		105
		15		34		105
		16		35		101
		17		30		104
		18		29		58
		19		29		54
		20		32		55
		21		35		103
		22		30		56
		23		33		103
		24		29		101
		25		30	-	54

Trial: 20-ARL-SB23

Date: 14 DAT - 7/21 28 DAT -

Rating:

	Distance from 0 (ft)	14 DAT		28 DAT	
		Injury	Height	Injury	Height
Plot: 201	0	5	35	5	58
Quadrant selected: 2	1	0	37	0	59
Total plants in 25'	152	2	35	1	59
Injured plants in 25':	1	3	34		54
injured 28 DAT: 1					
	4	33		55	
	5	33		56	
	6	34		54	
	7	34		59	
	8	33		57	
	9	37		58	
	10	36		59	
	11	36		62	
	12	35		57	
	13	34		60	
	14	34		55	
	15	31		59	
	16	38		63	
	17	33		60	
	18	29		61	
	19	31		56	
	20	35		60	
	21	34		60	
	22	33		61	
	23	36		60	
	24	29		59	
	25	—	71	—	62

	Distance from 0 (ft)	14 DAT		28 DAT	
		Injury	Height	Injury	Height
Plot: 202	0	0	35	0	60
Quadrant selected: 2	1			33	58
Total plants in 25'	190	2		34	59
Injured plants in 25':	0	3		39	57
injured 28 DAT: 0					
	4		35		61
	5		32		60
	6		33		60
	7		33		103
	8		31		510
	9		31		57
	10		32		87
	11		31		103
	12		34		57
	13		31		57
	14		32		59
	15		33		55
	16		32		58
	17		33		59
	18		33		57
	19		37		54
	20		34		56
	21		32		61
	22		31		63
	23		32		54
	24		30		50
	25	—	27	—	50

Trial: 20-ARL-SB23

Date: 14 DAT - 7/27 28 DAT -

Rating:

	Distance from 0 (ft)	14 DAT		28 DAT	
		Injury	Height	Injury	Height
Plot:	203	0	0	5	60
Quadrant selected:	3	1	2	2	62
Total plants in 25'	160	2	3	2	55
Injured plants in 25':	53	3	1	7	51
injured 28 DAT: 59		4	8	12	58
		5	12	10	62
		6	15	7	54
		7	10	0	52
		8	5	0	51
		9	0	26	51
		10	1	33	54
		11	1	30	52
		12	1	30	56
		13	1	32	55
		14	1	30	58
		15	1	32	51
		16	1	30	50
		17	1	34	54
		18	1	32	55
		19	1	30	50
		20	1	30	51
		21	1	34	54
		22	1	31	57
		23	1	35	51
		24	1	32	50
		25	1	33	52

	Distance from 0 (ft)	14 DAT		28 DAT	
		Injury	Height	Injury	Height
Plot:	204	0	1	30	59
Quadrant selected:	2	1	1	32	60
Total plants in 25'	173	2	0	29	58
Injured plants in 25':	10	3	4	31	51
injured 28 DAT: 5		4	5	31	52
		5	0	30	52
		6	1	32	53
		7	1	31	54
		8	1	33	56
		9	1	31	55
		10	1	31	55
		11	1	32	50
		12	1	31	59
		13	1	30	52
		14	1	32	55
		15	1	28	54
		16	1	31	51
		17	1	29	52
		18	1	34	54
		19	1	30	54
		20	1	29	50
		21	1	29	52
		22	1	28	53
		23	1	27	62
		24	1	28	52
		25	1	26	49

Trial: 20-ARL-SB23

Date: 14 DAT - 7/27 28 DAT -

Rating:

	Distance from 0 (ft)	14 DAT		28 DAT	
		Injury	Height	Injury	Height
Plot:	205	0	10	36	7
Quadrant selected:	2	1	15	33	12
Total plants in 25'	149	2	20	32	10
Injured plants in 25':	42	3	15	34	10
injured 28DAT: 51		4	17	30	10
		5	12	31	7
		6	6	37	2
		7	5	32	0
		8	2	31	1
		9	1	32	1
		10	2	31	1
		11	0	29	1
		12	1	32	1
		13	1	33	1
		14	24	34	1
		15	36	60	1
		16	32	61	1
		17	33	60	1
		18	34	54	1
		19	32	54	1
		20	38	56	1
		21	30	63	1
		22	27	56	1
		23	32	52	1
		24	28	27	1
		25	30	—	51

	Distance from 0 (ft)	14 DAT		28 DAT	
		Injury	Height	Injury	Height
Plot:	206	0	0	33	0
Quadrant selected:	2	1	1	31	1
Total plants in 25'	170	2	1	31	1
Injured plants in 25':	0	3	1	29	1
injured 28 DAT:		4	1	30	1
		5	1	33	1
		6	1	29	1
		7	1	30	1
		8	1	31	1
		9	1	35	1
		10	1	33	1
		11	1	36	1
		12	1	35	1
		13	1	34	1
		14	1	32	1
		15	1	30	1
		16	1	35	1
		17	1	32	1
		18	1	30	1
		19	1	33	1
		20	1	31	1
		21	1	32	1
		22	1	34	1
		23	1	32	1
		24	1	27	1
		25	1	28	1

Trial: 20-ARL-SB23

Date: 14 DAT - 7/27 28 DAT -

Rating:

		14 DAT		28 DAT	
		Distance from 0 (ft)	Injury	Height	Injury
Plot:	207	0	0	36	0
Quadrant selected:	32	1		34	64
Total plants in 25'	157	2		32	58
Injured plants in 25':	0	3		35	62
injured 28 DAT:	0	4		36	66
		5		34	61
		6		35	63
		7		36	56
		8		35	59
		9		35	61
		10		33	60
		11		32	51
		12		33	57
		13		34	55
		14		35	58
		15		35	60
		16		33	57
		17		34	60
		18		33	54
		19		30	58
		20		34	57
		21		34	54
		22		31	50
		23		32	50
		24		27	51
		25		31	52

		14 DAT		28 DAT	
		Distance from 0 (ft)	Injury	Height	Injury
Plot:	208	0	0	34	0
Quadrant selected:	1	1	0	35	0
Total plants in 25'	201	2	15	33	17
Injured plants in 25':	1	3	0	34	0
injured 28 DAT:	10	4		26	
		5		34	
		6		35	
		7		36	
		8		33	
		9		35	
		10		32	
		11		31	
		12		25	
		13		32	
		14		32	
		15		22	
		16		36	
		17		28	
		18		25	
		19		26	
		20		25	
		21		32	
		22		31	
		23		31	
		24		28	
		25		27	

Trial: 20-ARL-SB23

Date: 14 DAT - 7/27 28 DAT -

Rating:

	Distance from 0 (ft)	14 DAT		28 DAT	
		Injury	Height	Injury	Height
Plot: 301	0	0	37	0	61
Quadrant selected: 2	1	1	35	1	62
Total plants in 25'	144	2	35	1	64
Injured plants in 25':	5	3	39	1	62
injured 28 DAT: 0	4	1	37	1	62
	5	1	32	1	61
	6	1	36	1	62
	7	1	34	1	60
	8	1	35	1	62
	9	1	39	1	68
	10	1	36	1	69
	11	1	36	1	63
	12	1	34	1	59
	13	1	31	1	56
	14	1	32	1	51
	15	1	35	1	59
	16	1	33	1	62
	17	1	35	1	59
	18	1	32	1	59
	19	1	33	1	59
	20	1	33	1	58
	21	1	32	1	60
	22	1	34	1	58
	23	1	34	1	60
	24	1	36	1	59
	25	1	37	1	59

	Distance from 0 (ft)	14 DAT		28 DAT	
		Injury	Height	Injury	Height
Plot: 302	0	0	29	0	60
Quadrant selected: 4	1	1	31	1	55
Total plants in 25'	144	2	33	1	56
Injured plants in 25':	3	3	34	1	63
injured 28 DAT: 3	4	1	32	1	59
	5	1	29	1	55
	6	1	31	1	55
	7	1	34	1	56
	8	1	32	1	56
	9	1	32	1	54
	10	1	30	1	57
	11	1	32	1	58
	12	1	31	1	56
	13	1	30	1	60
	14	0	32	0	59
	15	1	33	1	65
	16	1	30	1	54
	17	1	30	1	56
	18	1	32	1	60
	19	1	37	1	59
	20	1	31	1	57
	21	1	32	1	54
	22	1	34	1	54
	23	1	35	1	53
	24	1	34	1	57
	25	1	35	1	50

Trial: 820-ARL-SB23

Date: 14 DAT - 7/27 28 DAT -

Rating:

	Distance from 0 (ft)	14 DAT		28 DAT	
		Injury	Height	Injury	Height
Plot: 303	0	0	31	0	51
Quadrant selected: 2	1	1	32	1	55
Total plants in 25'	2		34		60
Injured plants in 25':	0	3	32	51	
injured 28 DAT: 0	4		28		55
	5		32		57
	6		33		57
	7		30		59
	8		31		60
	9		27		60
	10		29		54
	11		30		52
	12		31		51
	13		32		55
	14		32		53
	15		31		58
	16		33		59
	17		32		65
	18		31		54
	19		33		60
	20		33		57
	21		27		60
	22		34		64
	23		33		62
	24		27		57
	25		26		49

	Distance from 0 (ft)	14 DAT		28 DAT	
		Injury	Height	Injury	Height
Plot: 304	0	0	34	0	53
Quadrant selected: 2	1	2	30	2	50
Total plants in 25'	2	4	31	2	55
Injured plants in 25':	3	6	236	5	59
injured 28 DAT: 43	4	10	31	7	55
	5	5	30	5	57
	6	8	32	0	50
	7	5	32	1	55
	8	3	32		57
	9	5	27		57
	10	3	32		53
	11	0	31		53
	12	1	29		52
	13		34		62
	14		30		51
	15		31		53
	16		32		50
	17		30		50
	18		30		50
	19		32		54
	20		29		50
	21		32		56
	22		32		57
	23		31		59
	24		31		50
	25		30		49

Trial: 20-ARL-SB23

Date: 14 DAT - 7/27 28 DAT - 8/11

Rating:

	Distance from 0 (ft)	14 DAT		28 DAT	
		Injury	Height	Injury	Height
Plot: 305	0	0	28	0	54
Quadrant selected: 2	1	1	36	1	56
Total plants in 25'	2		34		62
Injured plants in 25':	0	3	29	1	56
injured 28 DAT:	0	4	30	1	54
	5		29	1	55
	6		32	1	54
	7		27	1	55
	8		32	1	53
	9		30	1	54
	10		31	1	55
	11		31	1	56
	12		30	1	55
	13		30	1	55
	14		32	1	56
	15		33	1	50
	16		33	1	58
	17		31	1	60
	18		29	1	53
	19		26	1	55
	20		28	1	54
	21		31	1	52
	22		34	1	56
	23		33	1	60
	24		25	1	51
	25	—	28	—	50

	Distance from 0 (ft)	14 DAT		28 DAT	
		Injury	Height	Injury	Height
Plot: 306	0	12	33	15	57
Quadrant selected: 2	1	5	33	5	54
Total plants in 25'	2	5	30	5	52
Injured plants in 25':	3	8	36	7	53
injured 28 DAT:	74	4	34	5	55
	5	12	32	10	56
	6	5	31	5	58
	7	5	29	5	56
	8	8	30	5	61
	9	8	30	0	58
	10	3	32	1	63
	11	0	35	1	51
	12	1	32	1	56
	13	1	35	1	57
	14	1	35	1	58
	15	1	31	1	56
	16	1	32	1	58
	17	1	30	1	55
	18	1	32	1	55
	19	1	30	1	57
	20	1	27	1	51
	21	1	34	1	56
	22	1	30	1	52
	23	1	30	1	52
	24	1	27	1	54
	25	1	26	1	55

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1 | 2
3 | 4

Trial: 20-ARL-SB23

Date: 14 DAT - 7/27 28 DAT -

Rating:

	Distance from 0 (ft)	14 DAT		28 DAT	
		Injury	Height	Injury	Height
Plot: 307	0	2	28	0	55
Quadrant selected: 2	1	0	31		57
Total plants in 25'	2	1	29		60
Injured plants in 25':	3		32		59
injured 28 DAT: 0					
	4		30		57
	5		31		51
	6		28		52
	7		33		56
	8		32		42
	9		30		53
	10		34		58
	11		26		52
	12		30		58
	13		32		50
	14		29		56
	15		31		57
	16		32		52
	17		30		54
	18		29		53
	19		31		55
	20		33		50
	21		33		56
	22		32		55
	23		30		54
	24		28		51
	25	-	29	-	46

	Distance from 0 (ft)	14 DAT		28 DAT	
		Injury	Height	Injury	Height
Plot: 308	0	0	32		59
Quadrant selected: 2	1		34		60
Total plants in 25'	2		32		56
Injured plants in 25':	3		30		55
injured 28 DAT:					
	4		34		54
	5		33		61
	6		31		60
	7		29		57
	8		33		59
	9		32		58
	10		33		59
	11		29		57
	12		31		59
	13		30		69
	14		33		59
	15		32		57
	16		29		57
	17		32		60
	18		30		59
	19		33		56
	20		34		55
	21		20		58
	22		29		53
	23		28		52
	24		30		60
	25	-	25		97