

Resicore Preemergence or Preemergence plus Postemergence or Early Postemergence in Corn.

Trial ID: 16-COL-Dow-K001 Location: Collinsville, IL Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

Trial Status: F one-year/final Initiation Date: 5-22-16 Completion Date: 7-6-16	Trial Location
City: Collinsville Country: USA State/Prov.: Illinois IL Postal Code: 62234	

Objectives:
 Evaluate field corn tolerance to and efficacy of Resicore applied preemergence, preemergence followed by postemergence, or early postemergence compared to competitive standards,

Study Director: Karla Gage, Ph.D. Title: Assistant Professor of Weed Science Organization: Southern Illinois University Carbondale Address: 1205 Lincoln Drive MC 4415 Phone No.: 618-453-7679 City+State/Prov: Carbondale, IL Postal Code: 62901 E-mail: kgage@siu.edu Country: USA	Contacts
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Crop 1: ZEAMD Zea mays indentata Dent corn Variety: DKC 63-33 BBCH Scale: BCOR Description: SS RIB Planting Rate, Unit: 32000 S/A Planting Date: 5-22-16 Depth, Unit: 1.5 IN Planting Method: SEEDED Row Spacing, Unit: 30 IN	Crop Description
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Pest 1 Type: W Code: AMAPA Amaranthus palmeri S.Wats. Common Name: amaranth, Palmer Description: glyphosate-resistant Palmer amaranth	Pest Description
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Treated Plot Width: 6.67 FT Total Plot Width: 10 FT Treated Plot Length: 25 FT Total Plot Length: 25 FT Replications: 3 Untreated Arrangement: INCLUDED single control randomized in each block	Site and Design Site Type: FIELD Experimental Unit: 1 PLOT Tillage Type: REDTIL reduced-till Study Design: RACOB� Randomized Complete Block (RCB)						
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">No.</th> <th style="width: 45%;">Previous Crop</th> <th style="width: 50%;">Year</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td style="text-align: center;">NONCROP</td> <td style="text-align: center;">2015</td> </tr> </tbody> </table>		No.	Previous Crop	Year	1.	NONCROP	2015
No.	Previous Crop	Year					
1.	NONCROP	2015					

<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">No.</th> <th style="width: 45%;">Maintenance Product Name</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td style="text-align: center;">N 150 LB/A, P2O5 0 LB/A, K2O 0 LB/A</td> </tr> </tbody> </table>	No.	Maintenance Product Name	1.	N 150 LB/A, P2O5 0 LB/A, K2O 0 LB/A	Maintenance
No.	Maintenance Product Name				
1.	N 150 LB/A, P2O5 0 LB/A, K2O 0 LB/A				

Description Name: Collinsville 2013 % Sand: 5.26 % OM: 1.95 Texture: SIL silt loam % Silt: 84.13 pH: 5.7 Soil Name: Worthen/Littleton % Clay: 10.61 CEC: 11.77	Soil Description									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Element</th> <th style="width: 25%;">Quantity</th> <th style="width: 60%;">Unit</th> </tr> </thead> <tbody> <tr> <td>P1</td> <td style="text-align: center;">88</td> <td style="text-align: center;">lb/A</td> </tr> <tr> <td>K</td> <td style="text-align: center;">338</td> <td style="text-align: center;">lb/A</td> </tr> </tbody> </table>		Element	Quantity	Unit	P1	88	lb/A	K	338	lb/A
Element	Quantity	Unit								
P1	88	lb/A								
K	338	lb/A								

Overall Moisture Conditions: NORMAL Closest Weather Station: CLIMATE CORP	Moisture and Weather Conditions Distance, Unit: 1 MI
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No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	4-1-16					7	DAY	32	75	F
2.	4-6-16	0.35	IN	RAIN	rain	1	DAY			
3.	4-8-16					7	DAY	28	71	F
4.	4-10-16	1.45	IN	RAIN	rain	2	DAY			
5.	4-15-16					7	DAY	48	81	F
6.	4-19-16	0.88	IN	RAIN	rain	3	DAY			
7.	4-22-16					7	DAY	47	85	F
8.	4-26-16	0.93	IN	RAIN	rain	2	DAY			
9.	4-29-16					7	DAY	46	75	F
10.	4-29-16	1.17	IN	RAIN	rain	2	DAY			
11.	5-3-16	0.04	IN	RAIN	rain	1	DAY			
12.	5-6-16					7	DAY	44	87	F
13.	5-7-16	0.43	IN	RAIN	rain	1	DAY			
14.	5-9-16	2.21	IN	RAIN	rain	5	DAY			
15.	5-13-16					7	DAY	41	76	F
16.	5-16-16	0.74	IN	RAIN	rain	2	DAY			
17.	5-20-16					7	DAY	51	83	F
18.	5-26-16	0.8	IN	RAIN	rain	2	DAY			
19.	5-27-16					7	DAY	62	88	F
20.	5-31-16	0.18	IN	RAIN	rain	1	DAY			
21.	6-3-16					7	DAY	55	89	F
22.	6-3-16	0.28	IN	RAIN	rain	1	DAY			
23.	6-4-16	0.27	IN	RAIN	rain	1	DAY			
24.	6-10-16					7	DAY	65	96	F
25.	6-13-16	1	IN	RAIN	rain	1	DAY			
26.	6-17-16					7	DAY	67	97	F
27.	6-24-16					7	DAY	57	95	F
28.	6-25-16	1.42	IN	RAIN	rain	2	DAY			
29.	6-30-16	0.66	IN	RAIN	rain	1	DAY			
30.	7-1-16					7	DAY	60	91	F
31.	7-1-16	1.31	IN	RAIN	rain	4	DAY			
32.	7-6-16	0.85	IN	RAIN	rain	2	DAY			
33.	7-8-16					7	DAY	67	93	F

Comment:

The Climate Corporation provided estimates of rainfall at this Collinsville location. Air temperature was recorded at Scott Air Force Base 15 miles SE and provided by NOAA's National Centers for Environmental Information. Air temperatures given are summarized as weekly high and low, detailed weather data is available on request.

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Application Description

	A	B	C	D
Application Date:	5-22-16	6-14-16	6-8-16	6-27-16
Appl. Start Time:	12:00	10:25	13:00	9:00
Appl. Stop Time:	13:00	10:50	13:30	9:15
Application Method:	Spray	Spray	Spray	Spray
Application Timing:	PRE	3"PA	V4	14DA-B
Application Placement:	BROSOI	BROFOL	BROFOL	BROFOL
Applied By:	KNW	MCG	RFK	BD
Air Temperature, Unit:	84 F	94 F	80 F	84 F
% Relative Humidity:	37	59	34	70
Wind Velocity, Unit:	3 MPH	4 MPH	1 MPH	3 MPH
Wind Direction:	N	SW	SE	E
Dew Presence (Y/N):	N	N	N	N
Soil Temperature, Unit:	70 F	82 F	70 F	82 F
Soil Moisture:	NORMAL	ABONOR	NORMAL	ABONOR
% Cloud Cover:	0	80	25	25
Next Moisture Occurred On:	5-26-16	6-25-16	6-13-16	6-30-16
Time to Next Moisture, Unit:	4 DAY	11 DAY	5 DAY	3 DAY

Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale:	ZEAMD	ZEAMD	ZEAMD	ZEAMD
Stage Scale Used:	DESC	DESC	DESC	DESC
Stage Majority, Percent:	NA	V6	V4	V8
Stage Minimum, Percent:		V5	V4	V8
Stage Maximum, Percent:		V6	V4	V8
Height, Unit:		16 IN	10 IN	45 IN
Height Minimum, Maximum:		12 16	8 10	45 45

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Type, Scale:	AMAPA W	AMAPA W	AMAPA W	AMAPA W
Stage Majority, Percent:	NA	10	NA	10
Stage Minimum, Percent:		COTY		4
Stage Maximum, Percent:		14		10
Height, Unit:		3 IN		5 IN
Height Minimum, Maximum:		0.125 5		4 8
Density, Unit:		50 FT2		0.1 FT2

Application Equipment

	A	B	C	D
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer
Equipment Type:	BACSPR	BACSPR	BACSPR	BACSPR
Operation Pressure, Unit:	30 PSI	30 PSI	30 PSI	30 PSI
Nozzle Type:	XR	XR	XR	XR
Nozzle Size:	8002	8002	8002	8002
Boom Length, Unit:	6.67 FT	6.67 FT	6.67 FT	6.67 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA	15 GPA

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	ZEAMD 6-8-16 Injury Percent 17 DA-A 0 DA-C	ZEAMD 6-14-16 Injury Percent 0 DA-B	ZEAMD 6-15-16 Injury Percent 24 DA-A 7 DA-C	ZEAMD 6-21-16 Injury Percent 7 DA-B	ZEAMD 6-22-16 Injury Percent 31 DA-A 14 DA-C	ZEAMD 6-28-16 Injury Percent 14 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Form Unit	Other Rate	Other Unit	Growth Stage	Appl Code			
1	RESICORE	3.29	EC	2.06	lb ai/a	2.5	qt/a	PRE	A	0 a	0 a	
2	RESICORE AATREX 4L	3.29 4	EC SC	2.06	lb ai/a	2.5	qt/a	PRE PRE	A A	0 a	0 a	
3	ACURON	3.44	CS	2.37	lb ai/a	2.75	qt/a	PRE	A	0 a	0 a	
4	CORVUS AATREX 4L	2.63 4	SC SC	0.115	lb ai/a	5.6	fl oz/a	PRE PRE	A A	0 a	0 a	
5	LUMAX EZ	3.674	SE	2.48	lb ai/a	2.7	qt/a	PRE	A	0 a	0 a	
6	ZIDUA AATREX 4L	85 4	WG SC	0.133	lb ai/a	2.5	oz/a	PRE PRE	A A	0 a	0 a	
7	RESICORE RESICORE DURANGO DMA N-PAK AMS	3.29 3.29 4 100	EC EC SL SL	1.23 1.03 1 2.5	lb ai/a lb ai/a lb ae/a % v/v	1.5 1.25 1 2.5	qt/a qt/a qt/a % v/v	PRE V4 V4 V4	A C C C	0 a	0 a	0 a
8	RESICORE RESICORE AATREX 4L DURANGO DMA N-PAK AMS	3.29 3.29 4 4 100	EC EC SC SL SL	1.23 1.03 0.5 1 2.5	lb ai/a lb ai/a lb ai/a lb ae/a % v/v	1.5 1.25 0.5 1 2.5	qt/a qt/a qt/a qt/a % v/v	PRE V4 V4 V4 V4	A C C C C	0 a	0 a	0 a
9	ACURON ACURON DURANGO DMA N-PAK AMS	3.44 3.44 4 100	CS CS SL SL	1.29 1.29 1 2.5	lb ai/a lb ai/a lb ae/a % v/v	1.5 1.5 1 2.5	qt/a qt/a qt/a % v/v	PRE V4 V4 V4	A C C C	0 a	0 a	0 a
10	LUMAX EZ LUMAX EZ DURANGO DMA N-PAK AMS	3.674 3.674 4 100	SE SE SL SL	1.38 1.38 1 2.5	lb ai/a lb ai/a lb ae/a % v/v	1.5 1.5 1 2.5	qt/a qt/a qt/a % v/v	PRE V4 V4 V4	A C C C	0 a	0 a	0 a
11	RESICORE DURANGO DMA N-PAK AMS	3.29 4 100	EC SL SL	1.03	lb ai/a	1.25	qt/a	3"PA 3"PA 3"PA	B B B		0 a	0 a
12	RESICORE AATREX 4L DURANGO DMA N-PAK AMS	3.29 4 4 100	EC SC SL SL	1.03	lb ai/a	1.25	qt/a	3"PA 3"PA 3"PA 3"PA	B B B B		0 a	0 a
13	ACURON DURANGO DMA N-PAK AMS	3.44 4 100	CS SL SL	1.29	lb ai/a	1.5	qt/a	3"PA 3"PA 3"PA	B B B		0 a	0 a
14	LUMAX EZ DURANGO DMA N-PAK AMS	3.674 4 100	SE SL SL	1.38	lb ai/a	1.5	qt/a	3"PA 3"PA 3"PA	B B B		0 a	0 a

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Could not calculate LSD (% mean diff) for columns 5,6,7,8,9,10,11 because error mean square = 0.

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Pest Code								ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD		
Crop Code								6-8-16	6-14-16	6-15-16	6-21-16	6-22-16	6-28-16		
Rating Date								Injury	Injury	Injury	Injury	Injury	Injury		
Rating Type								Percent	Percent	Percent	Percent	Percent	Percent		
Rating Unit								17 DA-A	0 DA-B	24 DA-A	7 DA-B	31 DA-A	14 DA-B		
Rating Timing								0 DA-C	0 DA-B	7 DA-C	7 DA-B	14 DA-C	14 DA-B		
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
15	HALEX GT	4.389	CS	1.98	lb ai/a	3.6	pt/a	3"PA	B				0 a		0 a
	AATREX 4L	4	SC	0.5	lb ai/a	0.5	qt/a	3"PA	B						
	PREFERENCE	100	SL	0.25	% v/v	0.25	% v/v	3"PA	B						
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	3"PA	B						
16	DURANGO DMA	4	SL	1	lb ae/a	1	qt/a	3"PA	B				0 a		0 a
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	3"PA	B						
17	NONTREATED									0	0	0	0	0	0
18	WEEDFREE												0 a		0 a
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	3"PA	B						
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	14DA-B	D						
LSD P=.05							
Standard Deviation								0.0	0.0	0.0	0.0	0.0	0.0	0.0	
CV								0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Replicate F								0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Replicate Prob(F)								1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
Treatment F								0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Treatment Prob(F)								1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	

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Pest Code								AMAPA-HR	AMAPA-HR	AMAPA-HR	
Crop Code								6-8-16	6-22-16	7-6-16	
Rating Date								Control	Control	Control	
Rating Type								Percent	Percent	Percent	
Rating Unit								17 DA-A	8 DA-B	22 DA-B	
Rating Timing								0 DA-C	14 DA-C	28 DA-C	
Trt-Eval Interval											
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate Rate Unit	Other Rate Rate Unit	Growth Stage	Appl Code			
1	RESICORE	3.29	EC	2.06 lb ai/a	2.5 qt/a		PRE	A	99 a	99 a	99 a
2	RESICORE AATREX 4L	3.29 4	EC SC	2.06 lb ai/a 1 lb ai/a	2.5 qt/a 1 qt/a		PRE PRE	A A	99 a	99 a	99 a
3	ACURON	3.44	CS	2.37 lb ai/a	2.75 qt/a		PRE	A	99 a	99 a	99 a
4	CORVUS AATREX 4L	2.63 4	SC SC	0.115 lb ai/a 1 lb ai/a	5.6 fl oz/a 1 qt/a		PRE PRE	A A	99 a	96 a	96 ab
5	LUMAX EZ	3.674	SE	2.48 lb ai/a	2.7 qt/a		PRE	A	99 a	99 a	99 a
6	ZIDUA AATREX 4L	85 4	WG SC	0.133 lb ai/a 1 lb ai/a	2.5 oz/a 1 qt/a		PRE PRE	A A	99 a	98 a	98 ab
7	RESICORE RESICORE DURANGO DMA N-PAK AMS	3.29 3.29 4 100	EC EC SL SL	1.23 lb ai/a 1.03 lb ai/a 1 lb ae/a 2.5 % v/v	1.5 qt/a 1.25 qt/a 1 qt/a 2.5 % v/v		PRE V4 V4 V4	A C C C	99 a	99 a	99 a
8	RESICORE RESICORE AATREX 4L DURANGO DMA N-PAK AMS	3.29 3.29 4 4 100	EC EC SC SL SL	1.23 lb ai/a 1.03 lb ai/a 0.5 lb ai/a 1 lb ae/a 2.5 % v/v	1.5 qt/a 1.25 qt/a 0.5 qt/a 1 qt/a 2.5 % v/v		PRE V4 V4 V4 V4	A C C C C	99 a	99 a	99 a
9	ACURON ACURON DURANGO DMA N-PAK AMS	3.44 3.44 4 100	CS CS SL SL	1.29 lb ai/a 1.29 lb ai/a 1 lb ae/a 2.5 % v/v	1.5 qt/a 1.5 qt/a 1 qt/a 2.5 % v/v		PRE V4 V4 V4	A C C C	99 a	99 a	99 a
10	LUMAX EZ LUMAX EZ DURANGO DMA N-PAK AMS	3.674 3.674 4 100	SE SE SL SL	1.38 lb ai/a 1.38 lb ai/a 1 lb ae/a 2.5 % v/v	1.5 qt/a 1.5 qt/a 1 qt/a 2.5 % v/v		PRE V4 V4 V4	A C C C	99 a	98 a	98 a
11	RESICORE DURANGO DMA N-PAK AMS	3.29 4 100	EC SL SL	1.03 lb ai/a 1 lb ae/a 2.5 % v/v	1.25 qt/a 1 qt/a 2.5 % v/v		3"PA 3"PA 3"PA	B B B		43 c	73 c
12	RESICORE AATREX 4L DURANGO DMA N-PAK AMS	3.29 4 4 100	EC SC SL SL	1.03 lb ai/a 0.5 lb ai/a 1 lb ae/a 2.5 % v/v	1.25 qt/a 0.5 qt/a 1 qt/a 2.5 % v/v		3"PA 3"PA 3"PA 3"PA	B B B B		99 a	99 a
13	ACURON DURANGO DMA N-PAK AMS	3.44 4 100	CS SL SL	1.29 lb ai/a 1 lb ae/a 2.5 % v/v	1.5 qt/a 1 qt/a 2.5 % v/v		3"PA 3"PA 3"PA	B B B		95 a	95 ab
14	LUMAX EZ DURANGO DMA N-PAK AMS	3.674 4 100	SE SL SL	1.38 lb ai/a 1 lb ae/a 2.5 % v/v	1.5 qt/a 1 qt/a 2.5 % v/v		3"PA 3"PA 3"PA	B B B		97 a	97 ab

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Crop Code												
Rating Date								6-8-16	6-22-16	7-6-16		
Rating Type								Control	Control	Control		
Rating Unit								Percent	Percent	Percent		
Rating Timing								17 DA-A	8 DA-B	22 DA-B		
Trt-Eval Interval								0 DA-C	14 DA-C	28 DA-C		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
15	HALEX GT	4.389	CS	1.98	lb ai/a	3.6	pt/a	3"PA	B		97 a	97 ab
	AATREX 4L	4	SC	0.5	lb ai/a	0.5	qt/a	3"PA	B			
	PREFERENCE	100	SL	0.25	% v/v	0.25	% v/v	3"PA	B			
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	3"PA	B			
16	DURANGO DMA	4	SL	1	lb ae/a	1	qt/a	3"PA	B		33 d	47 d
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	3"PA	B			
17	NONTREATED									0	0	0
18	WEEDFREE										87 b	92 b
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	3"PA	B			
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	14DA-B	D			
LSD P=.05								.		8.2		6.4
Standard Deviation								0.0		4.9		3.9
CV								0.0		5.44		4.13
Replicate F								0.000		0.007		0.005
Replicate Prob(F)								1.0000		0.9927		0.9947
Treatment F								0.000		49.027		36.844
Treatment Prob(F)								1.0000		0.0001		0.0001

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Trial Comments

1. Protocol: Dow (K001).
2. Ratings:
 CI 0 DA-B (trts 1-10 in separate column) yes even though these trts are not a B application;
 7 and 14 DA-B (trts 11-18 in separate column);
 7 and 14 DA-C (trts 7-10 in separate column).
 Rate CI as chlorosis, necrosis, stunt, and overall (There was no observable crop injury at any time).
 Record crop height and stage in each nontreated plot at each CI evaluation (see below).
 WC 0 DA-C (trts 1-10 in separate column); 14 and 28 DA-C (rate all plots).
 Rate before spray applications B and C.
3. Yield not requested, okay to sell grain.
4. Blanket application to start clean if needed (was not needed, used tillage).
5. Application B, 3"PA = 3 inch Palmer amaranth.
 Application C, V4 = Corn stage V4 or 11 inch corn, whichever comes first.
 Application D, 14DA-B = about 14 days after application B.
6. Photos at 14 or 28 DA-C (Replication 1 was photographed at 21 DA-C).
7. Rainfall following the PRE application A was 0.80 inch over 2 days beginning 4 days later.
 Rainfall following the 3"PA application B was 1.42 inch over 2 days beginning 11 days later.
 Rainfall following the V4 application C was 1.0 inch over 1 day beginning 5 days later.
 Rainfall following the 14DA-B application D was 0.66 inch over 2 days beginning 3 days later.
8. AMAPA-HR = Herbicide-resistant Palmer amaranth (glyphosate).
9. Crop height and stage in each nontreated plot at each CI evaluation was;

CI rating date	Nontreated Plot	Corn Stage	Corn Height (inch)
6-8-16	101	V4	8-10
	208	V4	8-10
	305	V4	8-10
6-14-16	101	V5-V6	12-16
	208	V5-V6	12-16
	305	V5-V6	12-16
6-21-16	101	V7	30
	208	V7	30
	305	V7	30
6-28-16	101	V8	45
	208	V8	45
	305	V8	45

10. Not harvested.