

Purdue Weed Science

BCS-720/Corn/PRE/Grass & Broadleaf/Phyto & Efficacy

Trial ID: 20S-TPAC-CORN-04

Protocol Developer: Riley, Eric
License User: Childs, Dan

General Trial Information

Trial Initiation Date: 5/7/2020
Trial Status: A
Last change done by: Dr. Bill Johnson
Trial Objectives fulfilled: FULLY
GEP level: Conducted under GEP
External Trial: X

Protocol Edition No.: 1.04
Trial Status Date: 9/3/2020
Date of last export: 9/4/2020 5:39 AM

	1
TD Number(s):	LOCALCREATED

	1	2
Objectives:	PHYTOTOX	EFFICACY

License User: Childs, Dan
Department: Bayer CropScience LP

Protocol Developer: Riley, Eric

Trial Officer: Childs, Dan

Cooperator (Outside service): Cooperator
Affiliation: Affiliation
Street: Street
City: City
Postal Code: PostalCode
Telephone: Telephon
Fax: Fax
Mobile Tel.: Mobile Telephone
E-Mail: E-Mail

Site and Design

Field Name: TPAC - Throckmorton Purdue Agricultural Center
City: Lafayette
Postal Code: 47909
County: Tippecanoe
State/Province: IN
Country: USA

Latitude, Longitude of Trial Corners

Lower Left
Latitude: 40.2917561
Longitude: -86.9076812

No. of Replicates: 4
Plot Width: 3.048 m
Plot Area: 27.87 m²
Site Type: FIELD
Tillage Type: CONTIL

No. of Treatments: 17
Plot Length: 9.14 m

No. of Plots: 68
Test Type: EXTER
Trial Design: RACOBL

Most relevant weather station: Throckmorton Purdue Agricultural Center
Distance: 0.75 KM
Location of Control: INCLUDED

Previous Crops and Agricultural Chemicals

Previous Crops		Year
GLXMA	C BSOY	2019

Soil Description

Soil Name: Toronto-Millbrook complex
Texture: SIL
% Sand: 17
% Clay: 27
% Organic Matter: 3.1
pH: 6.2
Cation Exchange Capacity: 11.5
% Silt: 56

Irrigation/Rainfall

Date	Amount	Unit	Type and Equipment
5/2/2020	0.025	CM	RAIN
5/3/2020	0.585	CM	RAIN
5/5/2020	0.481	CM	RAIN
5/6/2020	0.025	CM	RAIN
5/10/2020	0.101	CM	RAIN
5/14/2020	0.405	CM	RAIN
5/15/2020	0.279	CM	RAIN
5/17/2020	1.497	CM	RAIN
5/18/2020	0.914	CM	RAIN
5/19/2020	0.684	CM	RAIN
5/23/2020	0.178	CM	RAIN
5/27/2020	0.025	CM	RAIN
5/28/2020	0.331	CM	RAIN
6/4/2020	0.33	CM	RAIN
6/9/2020	0.787	CM	RAIN
6/20/2020	0.025	CM	RAIN
6/21/2020	0.075	CM	RAIN
6/22/2020	0.711	CM	RAIN
6/23/2020	0.203	CM	RAIN
6/27/2020	2.769	CM	RAIN
6/28/2020	0.229	CM	RAIN
6/29/2020	0.076	CM	RAIN
6/30/2020	1.829	CM	RAIN
7/10/2020	0.05	CM	RAIN
7/11/2020	0.914	CM	RAIN
7/12/2020	0.66	CM	RAIN
7/15/2020	0.127	CM	RAIN
7/16/2020	0.456	CM	RAIN
7/19/2020	0.051	CM	RAIN
7/21/2020	1.423	CM	RAIN
7/22/2020	0.329	CM	RAIN
7/23/2020	0.178	CM	RAIN
7/27/2020	1.295	CM	RAIN
7/30/2020	1.599	CM	RAIN

Plant Development at Appl. and/or Ass.

Date From	To	Crop			BBCH From	To	Plant Development	Soil Humidity	Cloud Cover	Temperature
5/7/2020	5/7/2020	A2	C	BCOR	00	00	NORMAL	DRY	SLIGHT	MEDIUM

Crop 1: ZEAMD **Discipline:** C **Crop Scale:** BCOR

Zea mays L. ssp. indentata STU
Corn, dent

Variety: DKC62-52RIB

Variety Characteristic: RR2+LL+BT

Seed/Planting Date: 5/7/2020

Depth: 4.5 CM

Planting Method: PLANTD

Planting Implement: PP

Emergence Crop Date: 5/18/2020

Planting Crop Stage: 00

Crop Description

Use Group: A2

Seed/Plant Count: 84565 P/HA

Row Spacing: 76 CM

Soil Temperature: 15.5 C

Soil Moisture (at Planting): DRY

Target 1: AMBTR **Discipline:** W **Target Scale:** BDIC

Ambrosia trifida L.
Ragweed, giant

Target Characteristics: SOILBORN

Target 2: ECHCG **Discipline:** W **Target Scale:** BGRM

Echinochloa crus-galli (L.) P.
Barnyardgrass, common

Target Characteristics: SOILBORN

Target Description

Application Description

	A
Application Date	5/7/2020
Application Timing	PREPRE
Appl.Start - Time of Day	5:47 PM
Appl. Stop	6:26 PM
Appl. Rain 0-6H	0 CM
Time b. Appl./first Rain	3 DAY
% Relative Humidity	36
Air Temperature	20 C
% Cloud Cover	10
Appl. Wind Strength	MOD
Wind Velocity	20.9 KPH
Wind Direction/Degrees	W
Plant Condition	NORMAL
Soil Temperature	15.56 C
Soil Moisture	DRY
Problems with Application?	No

Crop Stage at Application

	A
Crop 1/Disc./Scale	ZEAMD, C, BCOR
Days after Emergence	-11
Application Plant Condition	NORMAL
Stage Majority/Percent	00, 100
Stage Minimum/Percent	00, -
Stage Maximum/Percent	00, -
Majority Height/Unit	0 CM
Min/Max (Unit=Height Unit)	0, 0

Target Stage at Application

	A
Target 1/Disc./Scale	AMBTR, W, BDIC
Target Characteristics	SOILBORN
Stage Majority/Percent	00, -
Stage Minimum/Percent	00, -
Stage Maximum/Percent	00, -
Majority Height/Unit	0 CM
Min/Max (Unit=Height Unit)	0, 0
Target 2/Disc./Scale	ECHCG, W, BGRM
Target Characteristics	SOILBORN
Stage Majority/Percent	00, -
Stage Minimum/Percent	00, -
Stage Maximum/Percent	00, -
Majority Height/Unit	0 CM
Min/Max (Unit=Height Unit)	0, 0

Application Equipment

	A
Application Method	SPRAY
Application Placement	BROADC
Application Equipment	BACSPR
Ground Speed	4.8 KPH
Propellant Type	COMCO2
Carrier	WATER
Appl./Slurry Volume	140.3
Appl./Slurry Volume Unit	L/HA
Minimum Mix/Treatment	1.564 L
Mix Overage	0 ML
Mix Size	1.8 L
Operating Pressure	172.4 KPA
Spray Swath Width	3.0480001 M
Nozzle Type	TEEJAI
Nozzle Size	110015
Nozzle Spacing	38.1 CM
Nozzles/Row	8
Boom Height	43.2 CM

Maintenance

Date	Crop			Dosage	Dosage Unit	Maintenance Product Name
4/7/2020	A2	C	BCOR	202	KG N/HA	UAN

Purdue Weed Science

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Unique Col. ID	2	3	7	8	9	10
Orig./Calc. Flag	O	O	O	O	O	O
SE Group	1	1	1	1	1	1
SE ID	PE12AD1	EE22AD3	EE22AD3	PE12AD1	EE22AD3	EE22AD3
SE Label	Estimat	1 weed,	1 weed,	Estimat	1 weed,	1 weed,
Target		1, AMBTR	2, ECHCG		1, AMBTR	2, ECHCG
-Disc./Scale		W, BDIC	W, BGRM		W, BDIC	W, BGRM
-Characteristic		SOILBORN	SOILBORN		SOILBORN	SOILBORN
Crop	1, ZEAMD	1, ZEAMD	1, ZEAMD	1, ZEAMD	1, ZEAMD	1, ZEAMD
-Disc./Scale	C, BCOR	C, BCOR	C, BCOR	C, BCOR	C, BCOR	C, BCOR
Variety	DKC62-52RIB	DKC62-52RIB	DKC62-52RIB	DKC62-52RIB	DKC62-52RIB	DKC62-52RIB
-Characteristic	RR2+LL+BT	RR2+LL+BT	RR2+LL+BT	RR2+LL+BT	RR2+LL+BT	RR2+LL+BT
Assessment Type	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
Assessment Unit	%	%	%	%	%	%
Sample Size	1	1	1	1	1	1
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT	PLOT
Sample Size (total)	1	1	1	1	1	1
Assessment Date	5/21/2020	5/21/2020	5/21/2020	5/28/2020	5/28/2020	5/28/2020
Assessment Code	A3	A3	A3	A4	A4	A4
Appl.-Ass.Interval	14 DAA	14 DAA	14 DAA	21 DAA	21 DAA	21 DAA
Days after first Appl.	14 DAA	14 DAA	14 DAA	21 DAA	21 DAA	21 DAA
Days after last Appl.	14 DAA	14 DAA	14 DAA	21 DAA	21 DAA	21 DAA
Plant.-Ass.Interval	14 DP1	14 DP1	14 DP1	21 DP1	21 DP1	21 DP1
Days after Emergence	3 DE1	3 DE1	3 DE1	10 DE1	10 DE1	10 DE1
Entry No.	1	2	3	4	5	6
Entry/Trt. Description						
Dose						
Dose Unit						
Appl. Code						
1 UNTREATED	0.0	0.0	0.0	0.0	0.0	0.0
2 FFA+IFT+TCM+CSA ATRAZINE	537 G AI/HA A 1122 G AI/HA A	0.0 c	97.0 bc	100.0 -	0.0 -	99.3 - 100.0 -
3 CORVUS HERBICIDE ATRAZINE	152.9 G AI/HA A 1122 G AI/HA A	0.0 c	96.0 c	100.0 -	0.0 -	98.5 - 100.0 -
4 ACURON HERBICIDE	2240 G AI/HA A	0.0 c	96.5 bc	100.0 -	0.0 -	98.3 - 100.0 -
5 RESICORE HERBICIDE ATRAZINE	2075 G AI/HA A 1122 G AI/HA A	10.0 a	98.5 a	100.0 -	0.0 -	99.8 - 100.0 -
6 LEXAR EZ	2336 G AI/HA A	0.0 c	96.5 bc	100.0 -	0.0 -	98.8 - 100.0 -
7 FFA+IFT+TCM+CSA ATRAZINE	608.4 G AI/HA A 1122 G AI/HA A	0.0 c	97.0 bc	100.0 -	0.0 -	99.3 - 100.0 -
8 CORVUS HERBICIDE ATRAZINE	173.3 G AI/HA A 1122 G AI/HA A	0.0 c	96.0 c	100.0 -	0.0 -	98.5 - 100.0 -
9 ACURON HERBICIDE	2488 G AI/HA A	0.0 c	96.0 c	100.0 -	0.0 -	99.8 - 100.0 -
10 RESICORE HERBICIDE ATRAZINE	2306 G AI/HA A 1122 G AI/HA A	9.3 b	97.5 ab	100.0 -	0.0 -	99.8 - 100.0 -
11 LEXAR EZ	2596 G AI/HA A	0.0 c	96.0 c	100.0 -	0.0 -	99.3 - 100.0 -
12 FFA+IFT+TCM+CSA ATRAZINE	671 G AI/HA A 1122 G AI/HA A	0.0 c	96.0 c	100.0 -	0.0 -	99.8 - 100.0 -
13 FFA+IFT+TCM+CSA ATRAZINE	716 G AI/HA A 1122 G AI/HA A	0.0 c	97.0 bc	100.0 -	0.0 -	99.5 - 100.0 -
14 CORVUS HERBICIDE ATRAZINE	190.3 G AI/HA A 1122 G AI/HA A	0.0 c	96.5 bc	100.0 -	0.0 -	99.5 - 100.0 -
15 ACURON HERBICIDE	2986 G AI/HA A	0.0 c	97.5 ab	100.0 -	0.0 -	99.3 - 100.0 -
16 RESICORE HERBICIDE ATRAZINE	2767 G AI/HA A 1122 G AI/HA A	10.0 a	98.5 a	100.0 -	0.0 -	100.0 - 100.0 -

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.
 Untreated treatment(s) 1 excluded from analysis.
 Could not calculate LSD (% mean diff) for columns 3,4,6 because error mean square = 0.
 ^Calculated from residual.

Unique Col. ID	2	3	7	8	9	10
Orig./Calc. Flag	O	O	O	O	O	O
SE Group	1	1	1	1	1	1
SE ID	PE12AD1	EE22AD3	EE22AD3	PE12AD1	EE22AD3	EE22AD3
SE Label	Estimat	1 weed,	1 weed,	Estimat	1 weed,	1 weed,
Target		1, AMBTR	2, ECHCG		1, AMBTR	2, ECHCG
-Disc./Scale		W, BDIC	W, BGRM		W, BDIC	W, BGRM
-Characteristic		SOILBORN	SOILBORN		SOILBORN	SOILBORN
Crop	1, ZEAMD	1, ZEAMD	1, ZEAMD	1, ZEAMD	1, ZEAMD	1, ZEAMD
-Disc./Scale	C, BCOR	C, BCOR	C, BCOR	C, BCOR	C, BCOR	C, BCOR
Variety	DKC62-52RIB	DKC62-52RIB	DKC62-52RIB	DKC62-52RIB	DKC62-52RIB	DKC62-52RIB
-Characteristic	RR2+LL+BT	RR2+LL+BT	RR2+LL+BT	RR2+LL+BT	RR2+LL+BT	RR2+LL+BT
Assessment Type	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
Assessment Unit	%	%	%	%	%	%
Sample Size	1	1	1	1	1	1
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT	PLOT
Sample Size (total)	1	1	1	1	1	1
Assessment Date	5/21/2020	5/21/2020	5/21/2020	5/28/2020	5/28/2020	5/28/2020
Assessment Code	A3	A3	A3	A4	A4	A4
Appl.-Ass.Interval	14 DAA	14 DAA	14 DAA	21 DAA	21 DAA	21 DAA
Days after first Appl.	14 DAA	14 DAA	14 DAA	21 DAA	21 DAA	21 DAA
Days after last Appl.	14 DAA	14 DAA	14 DAA	21 DAA	21 DAA	21 DAA
Plant.-Ass.Interval	14 DP1	14 DP1	14 DP1	21 DP1	21 DP1	21 DP1
Days after Emergence	3 DE1	3 DE1	3 DE1	10 DE1	10 DE1	10 DE1
Entry No.	1	2	3	4	5	6
Entry/Trt. Description	Dose Unit	Dose Unit	Appl. Code			
17 LEXAR EZ	3115 G AI/HA	A A	A			
LSD P=.05	0.0 c	96.5 bc	100.0 -	0.0 -	98.0 -	100.0 -
Standard Deviation	0.53	1.39	.	.	1.33	.
CV	0.38	0.97	0.00	0.00	0.94	0.00
Grand Mean	20.51	1.01	0.0	0.0	0.94	0.0
Levene's F^	1.83	96.81	100.00	0.00	99.19	100.00
Levene's Prob(F)	0.817	0.732	.	.	1.719	.
Rank X2	0.655	0.74	.	.	0.079	.
P(Rank X2)	.	.	.	.	.	.
Skewness^	-4.2748*	-0.2198	.	.	-0.6964*	.
Kurtosis^	32.3903*	-0.7108	.	.	1.4737*	.
Replicate F	1.000	3.246	0.000	0.000	1.571	0.000
Replicate Prob(F)	0.4016	0.0305	1.0000	1.0000	0.2094	1.0000
Treatment F	440.111	2.930	0.000	0.000	1.695	0.000
Treatment Prob(F)	0.0001	0.0027	1.0000	1.0000	0.0867	1.0000

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Unique Col. ID			11	12	13	14
Orig./Calc. Flag			O	O	O	O
SE Group			1	1	1	1
SE ID			EE22AD3	EE22AD3	EE22AD3	EE22AD3
SE Label			1 weed,	1 weed,	1 weed,	1 weed,
Target			1, AMBTR	2, ECHCG	1, AMBTR	2, ECHCG
-Disc./Scale			W, BDIC	W, BGRM	W, BDIC	W, BGRM
-Characteristic			SOILBORN	SOILBORN	SOILBORN	SOILBORN
Crop			1, ZEAMD	1, ZEAMD	1, ZEAMD	1, ZEAMD
-Disc./Scale			C, BCOR	C, BCOR	C, BCOR	C, BCOR
Variety			DKC62-52RIB	DKC62-52RIB	DKC62-52RIB	DKC62-52RIB
-Characteristic			RR2+LL+BT	RR2+LL+BT	RR2+LL+BT	RR2+LL+BT
Assessment Type			CONTRO	CONTRO	CONTRO	CONTRO
Assessment Unit			%	%	%	%
Sample Size			1	1	1	1
Sample Size Unit			PLOT	PLOT	PLOT	PLOT
Sample Size (total)			1	1	1	1
Assessment Date			6/11/2020	6/11/2020	7/2/2020	7/2/2020
Assessment Code			A5	A5	A6	A6
Appl.-Ass.Interval			35 DAA	35 DAA	56 DAA	56 DAA
Days after first Appl.			35 DAA	35 DAA	56 DAA	56 DAA
Days after last Appl.			35 DAA	35 DAA	56 DAA	56 DAA
Plant.-Ass.Interval			35 DP1	35 DP1	56 DP1	56 DP1
Days after Emergence			24 DE1	24 DE1	45 DE1	45 DE1
Entry No.	Entry/Trt.	Dose				
	Description	Dose Unit	7	8	9	10
	1 UNTREATED		0.0	0.0	0.0	0.0
	2 FFA+IFT+TCM+CSA	537 G AI/HA A	96.0 b-f	94.3 de	89.3 -	78.3 de
	ATRAZINE	1122 G AI/HA A				
	3 CORVUS HERBICIDE	152.9 G AI/HA A	95.0 def	93.8 de	86.8 -	68.8 ef
	ATRAZINE	1122 G AI/HA A				
	4 ACURON HERBICIDE	2240 G AI/HA A	96.5 b-e	98.0 abc	97.0 -	91.5 a
	5 RESICORE HERBICIDE	2075 G AI/HA A	98.8 a	99.8 a	97.5 -	93.8 a
	ATRAZINE	1122 G AI/HA A				
	6 LEXAR EZ	2336 G AI/HA A	94.3 f	97.0 bc	89.3 -	91.3 a
	7 FFA+IFT+TCM+CSA	608.4 G AI/HA A	97.0 a-d	98.3 abc	89.8 -	92.8 a
	ATRAZINE	1122 G AI/HA A				
	8 CORVUS HERBICIDE	173.3 G AI/HA A	94.8 ef	93.0 e	84.0 -	62.5 f
	ATRAZINE	1122 G AI/HA A				
	9 ACURON HERBICIDE	2488 G AI/HA A	96.5 b-e	99.0 ab	97.0 -	95.0 a
	10 RESICORE HERBICIDE	2306 G AI/HA A	97.5 abc	99.0 ab	97.5 -	94.0 a
	ATRAZINE	1122 G AI/HA A				
	11 LEXAR EZ	2596 G AI/HA A	95.5 c-f	97.5 abc	96.5 -	90.0 ab
	12 FFA+IFT+TCM+CSA	671 G AI/HA A	95.5 c-f	97.5 abc	96.5 -	89.5 abc
	ATRAZINE	1122 G AI/HA A				
	13 FFA+IFT+TCM+CSA	716 G AI/HA A	97.0 a-d	96.0 cd	95.0 -	80.8 bcd
	ATRAZINE	1122 G AI/HA A				
	14 CORVUS HERBICIDE	190.3 G AI/HA A	96.0 b-f	96.0 cd	95.0 -	79.5 cd
	ATRAZINE	1122 G AI/HA A				
	15 ACURON HERBICIDE	2986 G AI/HA A	98.0 ab	99.3 ab	98.0 -	95.0 a
	16 RESICORE HERBICIDE	2767 G AI/HA A	98.8 a	99.3 ab	98.0 -	98.5 a
	ATRAZINE	1122 G AI/HA A				

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Unique Col. ID	11	12	13	14
Orig./Calc. Flag	O	O	O	O
SE Group	1	1	1	1
SE ID	EE22AD3	EE22AD3	EE22AD3	EE22AD3
SE Label	1 weed,	1 weed,	1 weed,	1 weed,
Target	1, AMBTR	2, ECHCG	1, AMBTR	2, ECHCG
-Disc./Scale	W, BDIC	W, BGRM	W, BDIC	W, BGRM
-Characteristic	SOILBORN	SOILBORN	SOILBORN	SOILBORN
Crop	1, ZEAMD	1, ZEAMD	1, ZEAMD	1, ZEAMD
-Disc./Scale	C, BCOR	C, BCOR	C, BCOR	C, BCOR
Variety	DKC62-52RIB	DKC62-52RIB	DKC62-52RIB	DKC62-52RIB
-Characteristic	RR2+LL+BT	RR2+LL+BT	RR2+LL+BT	RR2+LL+BT
Assessment Type	CONTRO	CONTRO	CONTRO	CONTRO
Assessment Unit	%	%	%	%
Sample Size	1	1	1	1
Sample Size Unit	PLOT	PLOT	PLOT	PLOT
Sample Size (total)	1	1	1	1
Assessment Date	6/11/2020	6/11/2020	7/2/2020	7/2/2020
Assessment Code	A5	A5	A6	A6
Appl.-Ass.Interval	35 DAA	35 DAA	56 DAA	56 DAA
Days after first Appl.	35 DAA	35 DAA	56 DAA	56 DAA
Days after last Appl.	35 DAA	35 DAA	56 DAA	56 DAA
Plant.-Ass.Interval	35 DP1	35 DP1	56 DP1	56 DP1
Days after Emergence	24 DE1	24 DE1	45 DE1	45 DE1
Entry No.	7	8	9	10
Entry/Trt. Description	Dose Unit	Dose Unit	Dose Unit	Dose Unit
17 LEXAR EZ	3115 G AI/HA A			
LSD P=.05	2.17	2.62	9.88	10.13
Standard Deviation	1.52	1.84	6.94	7.11
CV	1.58	1.89	7.38	8.15
Grand Mean	96.47	97.27	93.94	87.23
Levene's F^	0.904	1.062	1.536	1.264
Levene's Prob(F)	0.565	0.414	0.13	0.261
Rank X2	.	.	.	.
P(Rank X2)	.	.	.	.
Skewness^	-0.4969	-0.2376	-1.4646*	-0.386
Kurtosis^	0.1992	-0.4967	3.9954*	1.04
Replicate F	3.838	3.983	0.481	3.423
Replicate Prob(F)	0.0157	0.0134	0.6975	0.0250
Treatment F	3.075	5.250	1.710	8.470
Treatment Prob(F)	0.0018	0.0001	0.0832	0.0001

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BCS-720/Corn/PRE/Grass & Broadleaf/Phyto & Efficacy

Trial ID: 20S-TPAC-CORN-04

Protocol Developer: Riley, Eric
License User: Childs, Dan

SE ID

PE12AD1 = Estimation % phytotoxicity (PHYGEN) (symptoms describe in co
EE22AD3 = 1 weed, % efficacy, in untreated % coverage

Target

- 1, AMBTR, W, BDIC, SOILBORN, , = Ambrosia trifida L.
- 2, ECHCG, W, BGRM, SOILBORN, , = Echinochloa crus-galli (L.) P.

Crop

- 1, ZEAMD, C, BCOR, DKC62-52RIB, RR2+LL+BT = Zea mays L. ssp. indentata STU

Assessment Type

PHYGEN = Phytotoxicity - General, Injury
CONTRO = Control

Assessment Unit

% = Percent

Sample Size Unit

PLOT = Plot

Plant.-Ass.Interval

- 14 DP1 = 1 ZEAMD 5/7/2020
- 21 DP1 = 1 ZEAMD 5/7/2020
- 35 DP1 = 1 ZEAMD 5/7/2020
- 56 DP1 = 1 ZEAMD 5/7/2020