

# Purdue Weed Science

Trial ID: 20S-MGS-CORN-12 Protocol ID: Project ID:	<b>2020 Shieldex Visibility Protocol</b> Location: Lafayette      Trial Year: 2020 Investigator (Creator): Dr. Bill Johnson Study Director: Chuck Foresman Sponsor Contact: Jay Turner
--	--

<b>General Trial Information</b> <b>Study Director:</b> Chuck Foresman <b>Investigator:</b> Dr. Bill Johnson <b>Title:</b> Professor  <b>Trial Status:</b> E    established <b>ARM Trial Created On:</b> 7/23/2020  <b>Conducted Under GLP:</b> No <b>Conducted Under GEP:</b> No
---

<b>Objectives:</b> 1
-------------------------

<b>Contacts</b> <b>Role:</b> STYDIR study director <b>Study Director:</b> Chuck Foresman <b>Role:</b> INVEST investigator <b>Investigator:</b> Dr. Bill Johnson <b>Title:</b> Professor <b>Organization:</b> Purdue University <b>Address 1:</b> 915 W. State Street <b>Country:</b> USA    United States <b>E-mail:</b> wgj@purdue.edu <b>City:</b> West Lafayette, IN <b>Postal Code:</b> 47907 <b>Role:</b> SPONSR sponsor <b>Sponsor:</b> Jay Turner
--

<b>Site and Design</b> <b>Treated Plot Width:</b> 6.67 FT <b>Treated Plot Length:</b> 25 FT <b>Treated Plot Area:</b> 166.75 FT2 <b>Treatments:</b> 6 <b>Replications:</b> 4 <b>Study Design:</b> RAOBL Randomized Complete Block (RCB)
---

Notes			
Context	Date	By	Notes
STATUS	7/23/2020	Dr. Bill Johnson	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	7/23/2020	Dr. Bill Johnson	Automatically added by ARM: Trial Status updated to 'E' when Rating Date entered.

<b>Instructions:</b> 1    Crop response 7,14,21 DAT (days after treatment) 2    Weed control 7, 14, 28, 42 DAT 3    Add 1% v/v COC to all treatments 4    Use local field corn variety and record 5    No crop yield required 6    Provide weather information relevant to trial site 7    Please provide photos of any crop injury observed 8    Please provide photos of weed control at 28DAT if possible 9    Please return results in both ARM *.dat and PDF format by September 1.
---

## Purdue Weed Science

### 2020 Shieldex Visibility Protocol

Trial ID: 20S-MGS-CORN-12  
 Protocol ID:  
 Project ID:

Location: Lafayette      Trial Year: 2020  
 Investigator (Creator): Dr. Bill Johnson  
 Study Director: Chuck Foresman  
 Sponsor Contact: Jay Turner

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	AMATA	ABUTH	AMATA	ABUTH
Pest Scientific Name	Amaranthus rudis	Abutilon theoph>	Amaranthus rudis	Abutilon theoph>
Pest Name	waterhemp, comm>	velvetleaf	waterhemp, comm>	velvetleaf
Rating Date	7/13/2020	7/13/2020	7/20/2020	7/20/2020
Rating Unit/Min/Max	-, 0, 100	-, 0, 100	-, 0, 100	-, 0, 100
Number of Subsamples	1	1	1	1
Assessed By	B. Mansfield	B. Mansfield	B. Mansfield	B. Mansfield
Data Entry Date	7/23/2020	7/23/2020	7/23/2020	7/23/2020
Rating Timing	10 DAT	10 DAT	17 DAT	17 DAT
Trt No.	Treatment Name	Rate Unit	Appl Code	
				1      2      3      4
1	SHIELDEX AATREX PRIME OIL	1 FL OZ/A B 0.5 LB AI/A B 1 % V/V B		93.3 abc      88.3 a      92.5 ab      93.3 a
2	SHIELDEX AATREX PRIME OIL	1 FL OZ/A B 1 LB AI/A B 1 % V/V B		94.5 ab      88.3 a      93.5 ab      90.0 a
3	SHIELDEX AATREX PRIME OIL	1 FL OZ/A B 2 LB AI/A B 1 % V/V B		95.0 a      87.5 a      95.0 a      90.0 a
4	LAUDIS AATREX PRIME OIL	3 FL OZ/A B 0.5 LB AI/A B 1 % V/V B		92.3 bc      65.0 b      90.0 bc      30.0 b
5	IMPACT AATREX PRIME OIL	1 FL OZ/A B 0.5 LB AI/A B 1 % V/V B		91.3 c      62.5 b      86.3 c      35.0 b
6	UNTREATED			0.0      0.0      0.0      0.0
LSD P=.05	2.62	5.47	4.32	11.63
Standard Deviation	1.70	2.74	2.80	5.82
CV	1.82	3.5	3.06	8.6
Grand Mean	93.25	78.33	91.45	67.67
Levene's F^	0.932	0.537	0.903	0.365
Levene's Prob(F)	0.472	0.713	0.487	0.827
Rank X2	.	.	.	.
P(Rank X2)	.	.	.	.
Skewness^	0.1123	-0.3161	-0.2635	0.5032
Kurtosis^	-1.1578	-0.1129	1.2816	-0.439
Replicate F	5.366	0.889	4.694	0.934
Replicate Prob(F)	0.0142	0.4591	0.0216	0.4433
Treatment F	3.329	71.250	5.994	91.672
Treatment Prob(F)	0.0472	0.0001	0.0069	0.0001

#### Pest Type

W, Weed = Weed or volunteer crop

#### Pest Code

AMATA, Amaranthus rudis, waterhemp, common = US

ABUTH, Abutilon theophrasti, velvetleaf = US

#### Rating Unit/Min/Max

, 0, 100 = 0-1 index/scale

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) 6 excluded from analysis.

Missing data estimates are included in columns: Average=2,4

^Calculated from residual.