

University of Tennessee

Determining the Effects of Application Time of Day on PPO-inhibiting Herbicides

Trial ID: JSB-PPO TOD Location: Jackson Trial Year: 2016
 Protocol ID: JSB-PPO TOD Prt Investigator: Dr. Larry Steckel
 Project ID: Study Director: Garret Montgomery
 Sponsor Contact:

Trt No.	Treatment Type Name	Form Conc	Form Type	Rate Rate	Unit Unit	Appl Code	Rep 1	2	3	4	Notes
1	HERB FLEXSTAR ADJ MSO CULT Sun Rise Application	1.88	SL	16 fl oz/a	A	A	101	202	303	414	
			L	1 % v/v	A	A					
2	HERB FLEXSTAR ADJ MSO CULT Noon Application	1.88	SL	16 fl oz/a	B	B	102	213	304	406	
			L	1 % v/v	B	B					
3	HERB FLEXSTAR ADJ MSO CULT Sun Set Application	1.88	SL	16 fl oz/a	C	C	103	215	308	402	
				1 % v/v	C	C					
4	HERB COBRA ADJ MSO CULT Sun Rise Application	2	EC	10 fl oz/a	A	A	104	207	311	401	
				1 % v/v	A	A					
5	HERB COBRA ADJ MSO CULT Noon Application	2	EC	10 fl oz/a	B	B	105	211	316	412	
				1 % v/v	B	B					
6	HERB COBRA ADJ MSO CULT Sun Set Application	2	EC	10 fl oz/a	C	C	106	208	305	413	
				1 % v/v	C	C					
7	HERB ULTRA BLAZER ADJ MSO CULT Sun Rise Application	2	SL	16 fl oz/a	A	A	107	201	312	403	
			L	1 % v/v	A	A					
8	HERB ULTRA BLAZER ADJ MSO CULT Noon Application	2	SL	16 fl oz/a	B	B	108	203	306	416	
				1 % v/v	B	B					
9	HERB ULTRA BLAZER ADJ MSO CULT Sun Set Application	2	SL	16 fl oz/a	C	C	109	212	307	404	
				1 % v/v	C	C					
10	HERB RESOURCE ADJ MSO CULT Sun Rise Application	0.86	EC	8 fl oz/a	A	A	110	204	309	410	
			L	1 % v/v	A	A					
11	HERB RESOURCE ADJ MSO CULT Noon Application	0.86	EC	8 fl oz/a	B	B	111	214	302	411	
			L	1 % v/v	B	B					
12	HERB RESOURCE ADJ MSO CULT Sun Set Application	0.86	EC	8 fl oz/a	C	C	112	216	310	415	
			L	1 % v/v	C	C					
13	HERB CADET ADJ MSO CULT Sun Rise Application	0.9	EC	0.9 fl oz/a	A	A	113	209	314	405	
			L	1 % v/v	A	A					
14	HERB CADET ADJ MSO CULT Noon Application	0.9	EC	0.9 fl oz/a	B	B	114	206	301	407	
			L	1 % v/v	B	B					
15	HERB CADET ADJ MSO CULT Sun Set Application	0.9	EC	0.9 fl oz/a	C	C	115	210	315	409	
			L	1 % v/v	C	C					
16	CHK NONTREATED						116	205	313	408	

Sort Order: Replicate 1

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General Trial Information

Study Director: Garret Montgomery
Investigator: Dr. Larry Steckel

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Garret Montgomery

Investigator: Dr. Larry Steckel

Site and Design

Treated Plot Width: 5 FT
Treated Plot Length: 30 FT
Treated Plot Area: 150 FT² **Treatments:** 16
Replications: 4

Study Design: RACOBL Randomized Complete Block (RCB)

Application Description

	A	B	C
Application Date:	Jun-8-2016	Jun-8-2016	Jun-9-2016
Appl. Start Time:	2:06 PM	7:28 PM	5:55 AM
Appl. Stop Time:	2:11 PM	7:36 PM	6:04 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	B	C	A
Application Placement:	FOLIAR	FOLIAR	FOLIAR
Applied By:	GM	GM	GM
Air Temperature, Unit:	90 F	79 F	61 F
% Relative Humidity:	42	45	90
Wind Velocity, Unit:	1 mph	1 mph	0 mph
Wind Direction:	N	N	NA
Dew Presence (Y/N):	N no	N no	Y yes
Soil Temperature, Unit:	89 F	83 F	73 F
Soil Moisture:	normal	normal	normal
% Cloud Cover:	5	15	5

Application Equipment

	A	B	C
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK
Equipment Type:	BACCAI	BACCAI	BACCAI
Operation Pressure, Unit:	30 PSI	30 PSI	30 PSI
Nozzle Type:	AIXR	AIXR	AIXR
Nozzle Size:	11003	11003	11003
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
Nozzles/Row:	2	2	2
Boom ID:	15GPA@4MPH	15GPA@4MPH	15GPA@4MPH
Boom Length, Unit:	5 FT	5 FT	5 FT
Boom Height, Unit:	16 IN	16 IN	16 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH
Carrier:	WATER	WATER	WATER
Water Hardness (ppm CaCO₃):	15	15	15
Spray Volume, Unit:	15 GAL/AC	15 GAL/AC	15 GAL/AC
Mix Size, Unit:	gallons	gallons	gallons
Propellant:	COMCO2	COMCO2	COMCO2
Tank Mix (Y/N):	Y yes	Y yes	Y yes

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