

# University of Georgia

## VALOR EZ/ VALOR SX TANK-MIX TEST

Trial ID: TM-01-19 Study Dir.: ALTOM/SANDERS/YODER  
 Location: TIFTON Investigator: Eric P. Prostko

Reps: 1 Plots: 10 by 40 feet  
 Appl. Amount: 15 GAL/AC Mix Size: 1.5 L (total for 1 plots; minimum=.5214 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Diluent	Rep 1
1	VALOR EZ	4	SC	3.0	oz/a	PRE	A	2.343 mL/mx	1497.7 mL	101
	ROUNDUP POWERMAX	5.5	SL	32.0	oz/a	PRE	B	25.0 mL/mx	1475 mL	
2	VALOR EZ	4	SC	3.0	oz/a	PRE	B	2.343 mL/mx	1497.7 mL	102
	ROUNDUP POWERMAX	5.5	SL	32.0	oz/a	PRE	A	25.0 mL/mx	1475 mL	
3	VALOR SX	51	WG	3.0	oz/a	PRE	A	2.247 g/mx	1497.8 mL	103
	ROUNDUP POWERMAX	5.5	SL	32.0	oz/a	PRE	B	25.0 mL/mx	1475 mL	
4	VALOR SX	51	WG	3.0	oz/a	PRE	B	2.247 g/mx	1497.8 mL	104
	ROUNDUP POWERMAX	5.5	SL	32.0	oz/a	PRE	A	25.0 mL/mx	1475 mL	
5	VALOR EZ	4	SC	3.0	oz/a	PRE	A	2.343 mL/mx	1497.7 mL	105
	GRAMOXONE SL	2	SL	48.0	oz/a	PRE	B	37.5 mL/mx	1462.5 mL	
	NIS			0.25	% v/v	PRE	C	3.75 mL/mx	1496.3 mL	
6	VALOR EZ	4	SC	3.0	oz/a	PRE	B	2.343 mL/mx	1497.7 mL	106
	GRAMOXONE SL	2	SL	48.0	oz/a	PRE	A	37.5 mL/mx	1462.5 mL	
	NIS			0.25	% v/v	PRE	C	3.75 mL/mx	1496.3 mL	
7	VALOR SX	51	WG	3.0	oz/a	PRE	A	2.247 g/mx	1497.8 mL	107
	GRAMOXONE SL	2	SL	48.0	oz/a	PRE	B	37.5 mL/mx	1462.5 mL	
	NIS			0.25	% v/v	PRE	C	3.75 mL/mx	1496.3 mL	
8	VALOR SX	51	WG	3.0	oz/a	PRE	B	2.247 g/mx	1497.8 mL	108
	GRAMOXONE SL	2	SL	48.0	oz/a	PRE	A	37.5 mL/mx	1462.5 mL	
	NIS			0.25	% v/v	PRE	C	3.75 mL/mx	1496.3 mL	
9	VALOR EZ	4	SC	3.0	oz/a	PRE	A	2.343 mL/mx	1497.7 mL	109
	ROUNDUP POWERMAX	5.5	SL	32.0	oz/a	PRE	B	25.0 mL/mx	1475 mL	
	ENGENIA	5	SL	12.5	oz/a	PRE	C	9.765 mL/mx	1490.2 mL	
10	VALOR EZ	4	SC	3.0	oz/a	PRE	B	2.343 mL/mx	1497.7 mL	110
	ROUNDUP POWERMAX	5.5	SL	32.0	oz/a	PRE	A	25.0 mL/mx	1475 mL	
	XTENDIMAX	2.9	SL	22.0	oz/a	PRE	C	17.19 mL/mx	1482.8 mL	
11	VALOR SX	51	WG	3.0	oz/a	PRE	A	2.247 g/mx	1497.8 mL	111
	ROUNDUP POWERMAX	5.5	SL	32.0	oz/a	PRE	B	25.0 mL/mx	1475 mL	
	XTENDIMAX	2.9	SL	22.0	oz/a	PRE	C	17.19 mL/mx	1482.8 mL	
12	VALOR EZ	4	SC	3.0	oz/a	PRE	A	2.343 mL/mx	1497.7 mL	112
	ROUNDUP POWERMAX	5.5	SL	32.0	oz/a	PRE	D	25.0 mL/mx	1475 mL	
	XTENDIMAX	2.9	SL	22.0	oz/a	PRE	C	17.19 mL/mx	1482.8 mL	
	DIREX	4	L	32.0	oz/a	PRE	B	25.0 mL/mx	1475 mL	
13	VALOR EZ	4	SC	3.0	oz/a	PRE	A	2.343 mL/mx	1497.7 mL	113
	DIREX	4	L	32.0	oz/a	PRE	B	25.0 mL/mx	1475 mL	
14	VALOR SX	51	WG	3.0	oz/a	PRE	A	2.247 g/mx	1497.8 mL	114
	DIREX	4	L	32.0	oz/a	PRE	B	25.0 mL/mx	1475 mL	
	XTENDIMAX	2.9	SL	22.0	oz/a	PRE	C	17.19 mL/mx	1482.8 mL	
15	VALOR EZ	4	SC	3.0	oz/a	PRE	A	2.343 mL/mx	1497.7 mL	115
	LIBERTY	2.34	SL	32.0	oz/a	PRE	B	25.0 mL/mx	1475 mL	
16	VALOR SX	51	WG	3.0	oz/a	PRE	A	2.247 g/mx	1497.8 mL	116
	LIBERTY	2.34	SL	32.0	oz/a	PRE	B	25.0 mL/mx	1475 mL	
17	VALOR EZ	4	SC	3.0	oz/a	PRE	A	2.343 mL/mx	1497.7 mL	117
	ABUNDIT EDGE	5.5	SL	32.0	oz/a	PRE	B	25.0 mL/mx	1475 mL	
18	VALOR SX	51	WG	3.0	oz/a	PRE	A	2.247 g/mx	1497.8 mL	118
	ABUNDIT EDGE	5.5	SL	32.0	oz/a	PRE	B	25.0 mL/mx	1475 mL	
19	LIBERTY	2.34	SL	32.0	oz/a	PRE	A	25.0 mL/mx	1475 mL	119
	VALOR EZ	4	SC	3.0	oz/a	PRE	B	2.343 mL/mx	1497.7 mL	
20	LIBERTY	2.34	SL	32.0	oz/a	PRE	A	25.0 mL/mx	1475 mL	120
	VALOR SX	51	WG	3.0	oz/a	PRE	B	2.247 g/mx	1497.8 mL	

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Diluent	Rep 1
21	NIS			0.25 % v/v	PRE	A		3.75 mL/mx	1496.3 mL	121
	GRAMOXONE	2 SL		48.0 oz/a	PRE	B		37.5 mL/mx	1462.5 mL	
	VALOR EZ	4 SC		3.0 oz/a	PRE	C		2.343 mL/mx	1497.7 mL	
22	NIS			0.25 % v/v	PRE	A		3.75 mL/mx	1496.3 mL	122
	GRAMOXONE	2 SL		48.0 oz/a	PRE	B		37.5 mL/mx	1462.5 mL	
	VALOR SX	51 WG		3.0 oz/a	PRE	C		2.247 g/mx	1497.8 mL	
23	N-PAK AMS (34%)		SL	2.0 % v/v	PRE	A		30.0 mL/mx	1470 mL	123
	ROUNDUP POWER MAX	5.5 SL		32.0 oz/a	PRE	B		25.0 mL/mx	1475 mL	
	VALOR EZ	4 SC		3.0 oz/a	PRE	C		2.343 mL/mx	1497.7 mL	
24	N-PAK AMS (34%)		SL	2.0 % v/v	PRE	A		30.0 mL/mx	1470 mL	124
	ROUNDUP POWER MAX	5.5 SL		32.0 oz/a	PRE	B		25.0 mL/mx	1475 mL	
	VALOR SX	51 WG		3.0 oz/a	PRE	C		2.247 g/mx	1497.8 mL	
25	VALOR EZ		4 SC	3.0 oz/a	PRE	A		2.343 mL/mx	1497.7 mL	125
	ROUNDUP POWERMAX		5.5 SL	32.0 oz/a	PRE	B		25.0 mL/mx	1475 mL	
	TRICOR		75 DF	4.0 oz/a	PRE	C		2.996 g/mx	1497.0 mL	
26	NIS						A		-	126
	VALOR EZ		4 SC	3.0 oz/a	PRE	B		2.343 mL/mx	1497.7 mL	
	GRAMOXONE		2 SL	48.0 oz/a	PRE	C		37.5 mL/mx	1462.5 mL	
27	NIS						A		-	127
	VALOR SX		51 WG	3.0 oz/a	PRE	B		2.247 g/mx	1497.8 mL	
	GRAMOXONE		2 SL	48.0 oz/a	PRE	C		37.5 mL/mx	1462.5 mL	
28	VALOR EZ		4 SC	3.0 oz/a	PRE	A		2.343 mL/mx	1497.7 mL	128
	SATELLITE HYDROCAP		3.8 ME	32.0 oz/a	PRE	B		25.0 mL/mx	1475 mL	
29	VALOR SX		51 WG	3.0 oz/a	PRE	A		2.247 g/mx	1497.8 mL	129
	SATELLITE HYDROCAP		3.8 ME	32.0 oz/a	PRE	B		25.0 mL/mx	1475 mL	

Sort Order: Treatment

### Trial Comments

NIS (INDUCE)  
 COC (AGRIDEX)

SATELLITE HYDROCAP = MICROENCAPUSLATED PENDIMETHALIN (UPL)

APPLICATION CODE = TANK-MIXING ORDER

A = 1  
 B = 2  
 C = 3  
 D = 4  
 E = 5

### **OBSERVATIONS ON DAY OF MIXING (03/06/2019)**

General Observations:

- a. Valor SX settled more initially than EZ
  - b. EZ takes longer to go into solution
- 1) Order of NIS may matter with Vaor EZ + Gramoxone
- a. TRT 21: NIS fb Gramoxone fb EZ has potential issues some "floaties"
    - i. No issue with SX
  - b. TRT 26: NIS fb EZ fb Gramoxone Better than TRT 21

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- c. TRT 27: NIS still causes some tadpoles. Better with SX than EZ
- d. Best order: Valor EZ fb Gramoxone fb NIS (no issues SX or EZ)
- 2) TRT 12: Direx L does cause some separation (significant)
  - a. Adding XtenDiMax makes Direx L separation worse
- 3) TRT 13 had less Direx L separation than TRT 12
- 4) Liberty + Valor EZ and Valor SX foams really bad
  - a. SX goes into suspension with Liberty easier than EZ
  - b. EZ + Liberty = Pink color
  - c. SX + Liberty + Grapefruit color

### **OBSERVATIONS 24 HOURS LATER (03/07/2019)**

- 5) TRT 5 vs 6 EZ needs more agitation than SX (Gramoxone TRT) both formulations acceptable
- 6) TRT 21 vs 22 EZ needs more agitation than SX (Gramoxone TRT) no tadpoles; both formulations acceptable
- 7) TRT 9 VS 10 EZ resuspends better in XtendiMax than Engenia (both acceptable)
- 8) TRT 15 vs 16 EZ resuspends easier in Liberty than SX; both acceptable
- 9) TRT 12 vs 14 No difference; Direx no problem
- 10) TRT 17 vs 18 Generic Roundup (Abundit Edge) ok
- 11) Trt 19 vs 20 Order doesn't matter; EZ resuspends easier than SX in Liberty
- 12) Trt 25 EZ + Tricor (Metribuzin) + RUPowerMax No problem
- 13) Trt 28 VS 29 EZ and SX mixed with Generic Prowl H2O (Satellite Hydrocap) was the most difficult to resuspend (required very aggressive shaking to get resuspended). EZ and SX were similar. Potential problem.
  - k. May need to do further testing with Prowl formulations vs. Sonalan and if adding RUPowerMax changes anything?
- 14) No issues resuspending the heel with EZ or SX

**Bottomline is that Valor EZ2 mixes and resuspends close enough to SX. The only exceptions were with Gramoxone when NIS was added first on the mixing and with Gramoxone on resuspending (more agitation needed with EZ than with SX but does not appear to be a game changer here).**