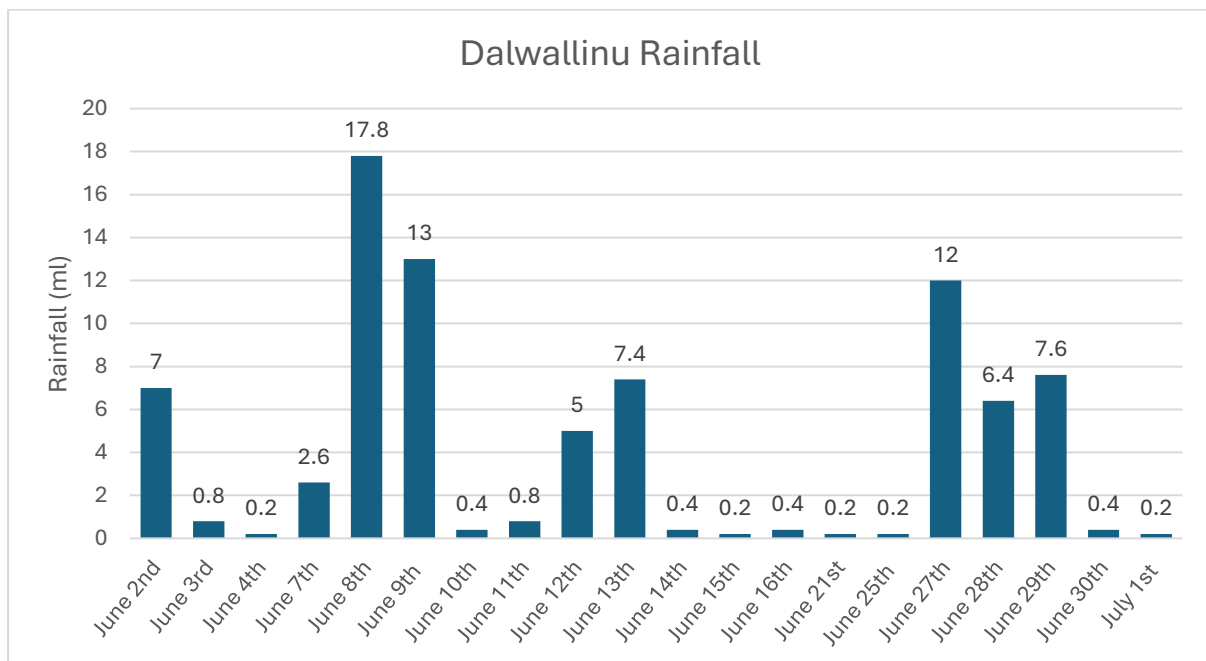


SLR Showpiece Project

Pre and Early Post Emergent

Dalwallinu

Grower:	William Roach
Grower contact:	0429621025
Location:	East Pithara
GPS pin (gate):	-30.383806, 116.880611
GPS pin (site):	-30.384611, 116.880306
Seeding date/ IBS application:	10 th June 2024
Post emergent application date (B):	1 st July 2024
Crop growth stage at application B:	Z12 to 13 – 2 to 3 leaves emerged
Weed stage at application B:	1 to 2 leaf
Crop variety:	Calibre 55kg/ha
Soil Moisture:	Full moisture profile
Soil type:	Sandy loam
Fertiliser and rate:	MAP trace/ SOP mix 45kg/ha Urea 50kg/ha
Paddock Rotations:	
2021	Wheat
2022	TT Canola
2023	Fallow/ pasture



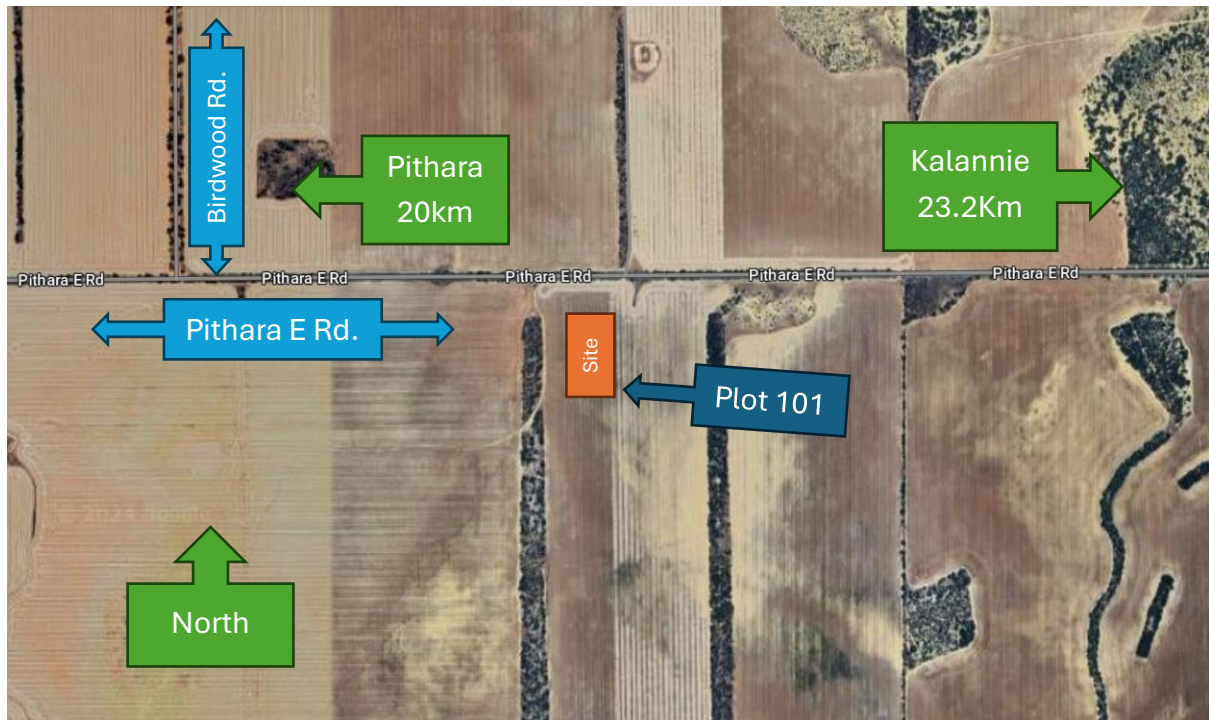
Source: Kalannie weather station 23km away.

Randomisation

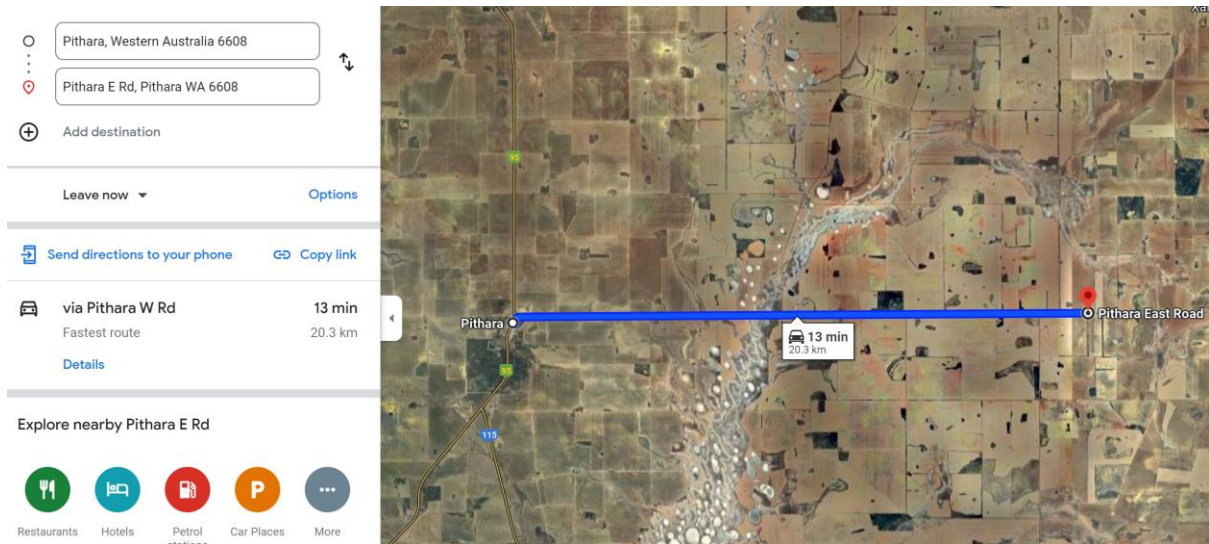
Treatment No.	Treatment name	Rate	Rate unit	Application timing
1	UTC			
2	Terrain Flow	125	mL/ha	IBS
3	Trifluralin	2000	mL/ha	IBS
3	Callisto	200	mL/ha	IBS
4	Pyroxasulfone	118	g/ha	IBS
4	Callisto	200	mL/ha	IBS
5	Pyroxasulfone	118	g/ha	IBS
5	Trifluralin	2000	mL/ha	IBS
5	Callisto	200	mL/ha	IBS
6	Pyroxasulfone	118	g/ha	IBS
6	Terrain Flow	125	mL/ha	IBS
7	Pyroxasulfone	118	g/ha	IBS
7	Boxer Gold	2500	mL/ha	IBS
7	Callisto	200	mL/ha	IBS
8	Pyroxasulfone	118	g/ha	IBS
8	Overwatch	1250	mL/ha	IBS
9	Overwatch	1250	mL/ha	IBS
9	Trifluralin	2000	mL/ha	IBS
9	Boxer Gold	3000	mL/ha	EPE
10	Overwatch	1250	mL/ha	IBS
10	Terrain Flow	125	mL/ha	IBS
11	Luximax	500	mL/ha	IBS
11	Voraxor	200	mL/ha	IBS
12	Villain	1500	mL/ha	IBS
13	Overwatch	1250	mL/ha	IBS
13	Mateno Complete	1000	mL/ha	EPE
14	Trifluralin	2000	mL/ha	IBS
14	Mateno Complete	1000	mL/ha	EPE
15	Terrain Flow	125	mL/ha	IBS
15	Mateno Complete	1000	mL/ha	EPE
16	Boxer Gold	2500	mL/ha	IBS
16	Mateno Complete	1000	mL/ha	EPE
17	Pyroxasulfone	118	g/ha	IBS
17	Boxer Gold	3000	mL/ha	EPE
18	Overwatch	1250	mL/ha	IBS
18	Callisto	150	mL/ha	IBS

301 10	302 6	303 2	304 4	305 3	306 15	307 12	308 5	309 17	310 16	311 9	312 18	313 1	314 7	315 13	316 14	317 8	318 11
201 12	202 7	203 16	204 18	205 2	206 1	207 13	208 4	209 5	210 14	211 15	212 9	213 17	214 8	215 11	216 6	217 10	218 3
101 1	102 2	103 3	104 4	105 5	106 6	107 7	108 8	109 9	110 10	111 11	112 12	113 13	114 14	115 15	116 16	117 17	118 18

Site Map – Dalwallinu



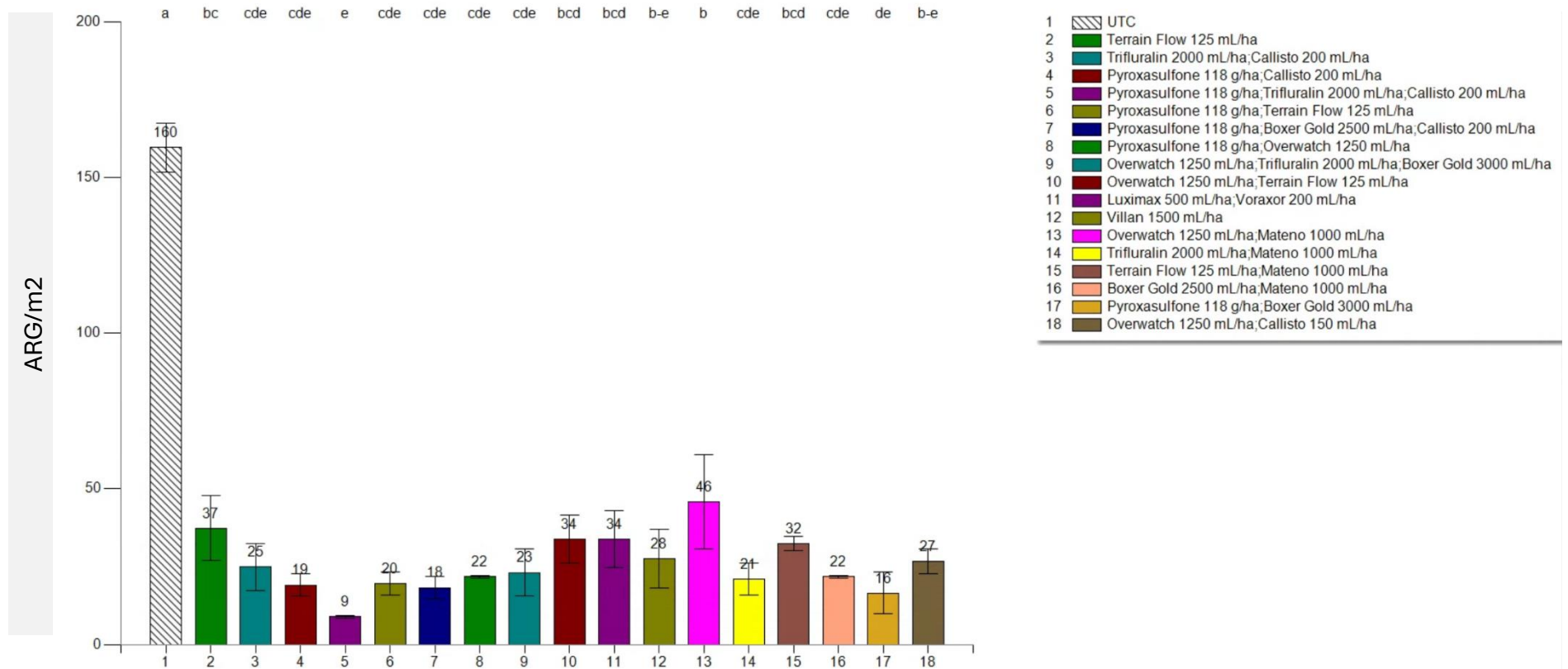
Directions to nearest town



Assessment Data

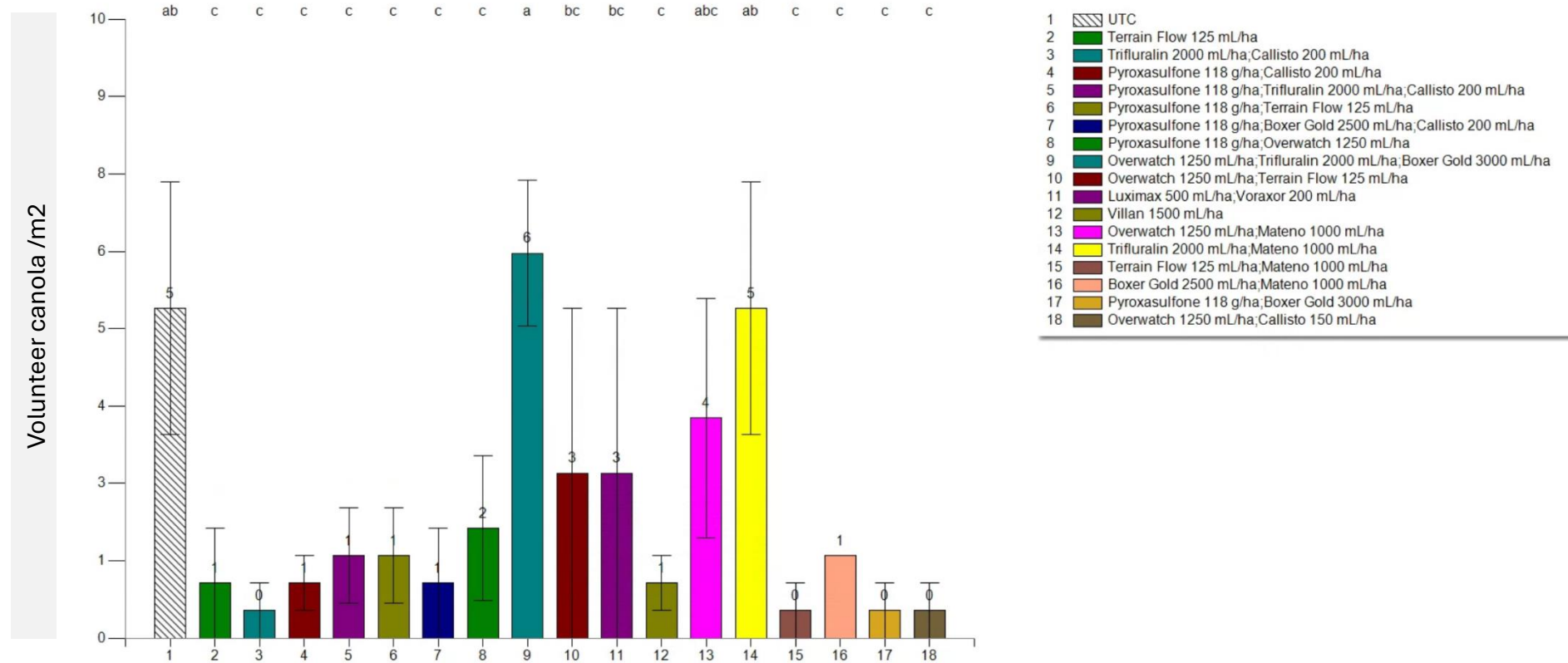
Assessment 1: Pre-Spray – 1st July 2024

ARG counts per m2



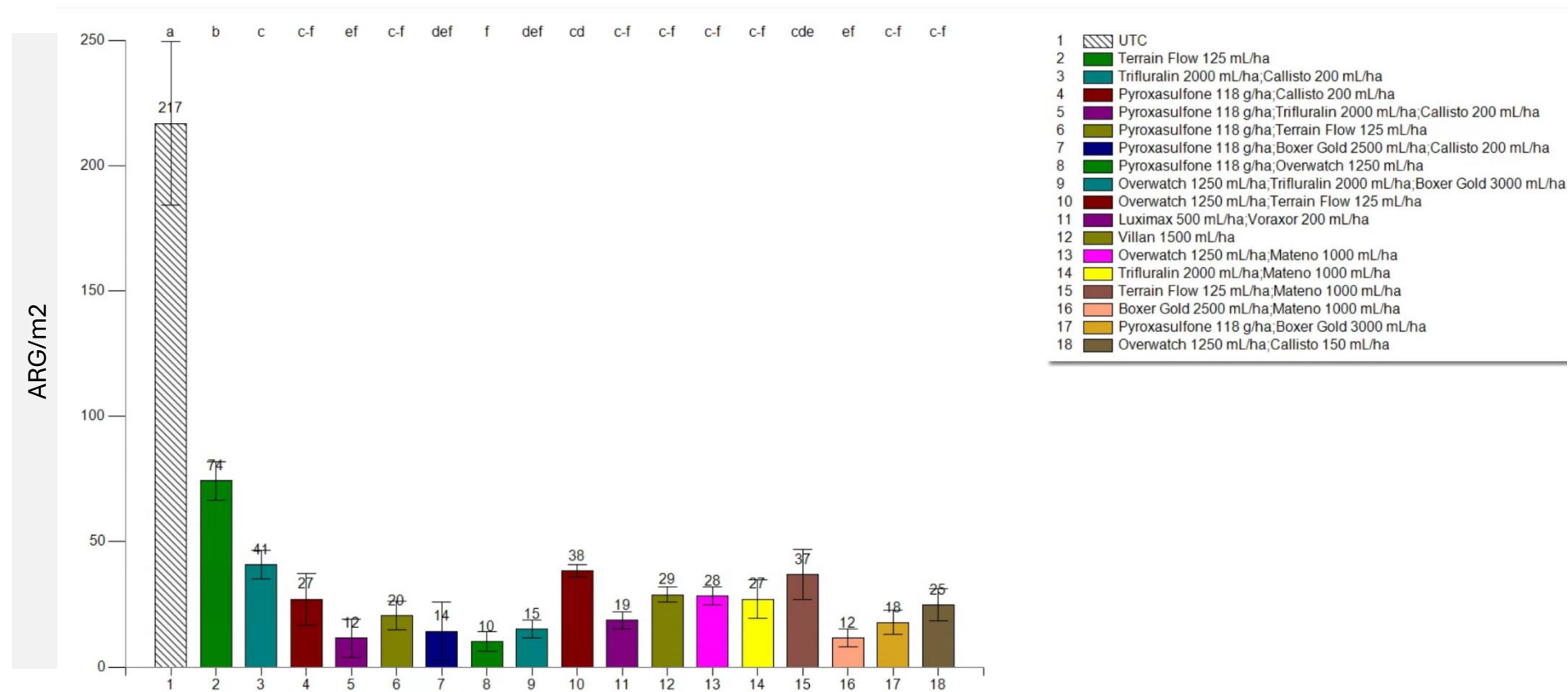
Assessment 1: Pre-Spray – 1st July 2024

Volunteer canola counts per m2



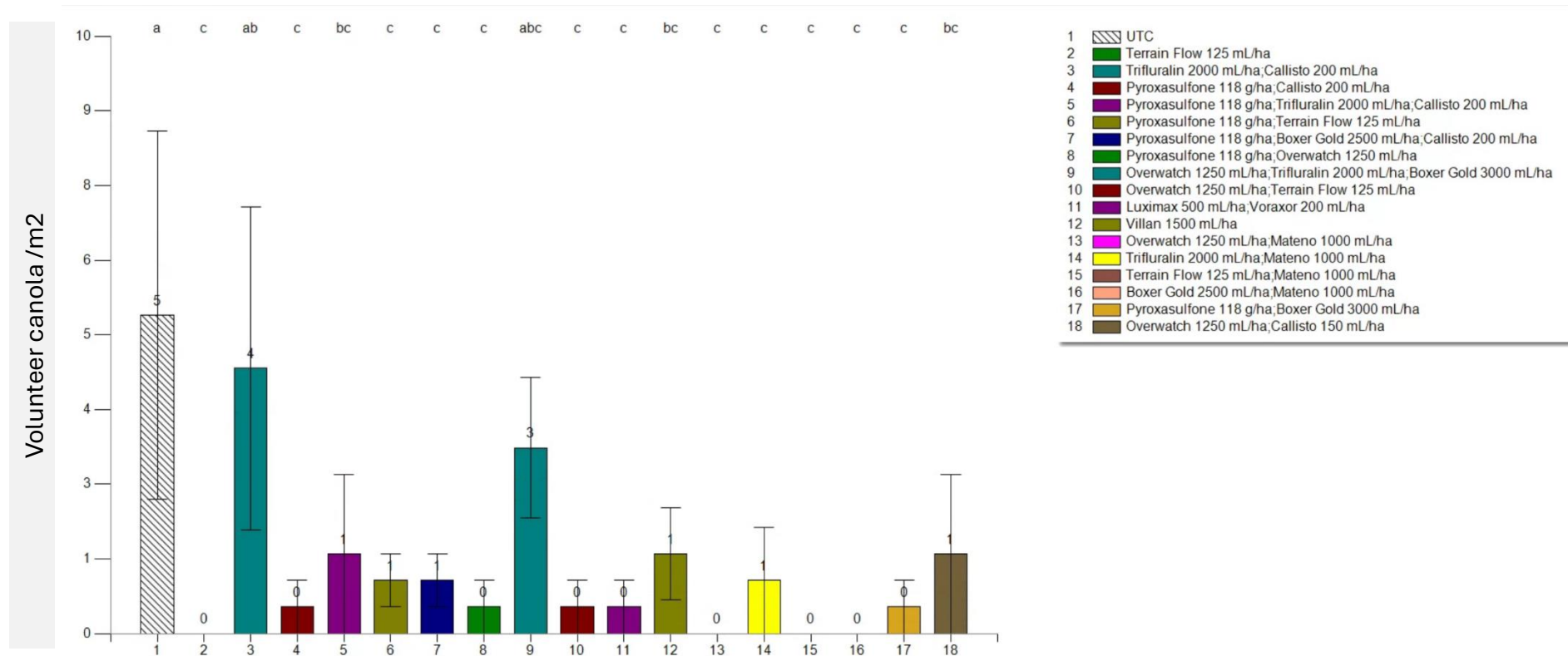
Assessment 2: 14 DA-B – 15th July 2024

ARG counts per m2



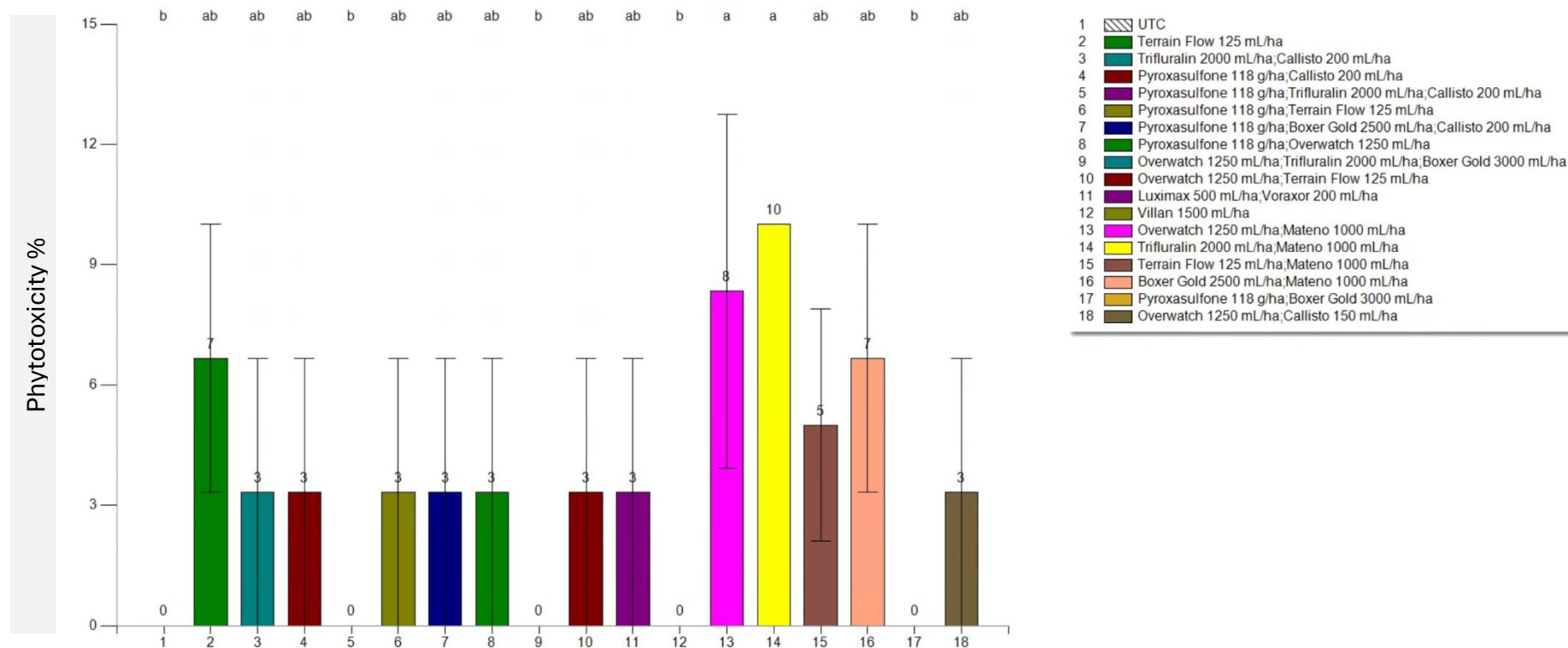
Assessment 2: 14 DA-B - 15th July 2024

Canola counts per m2



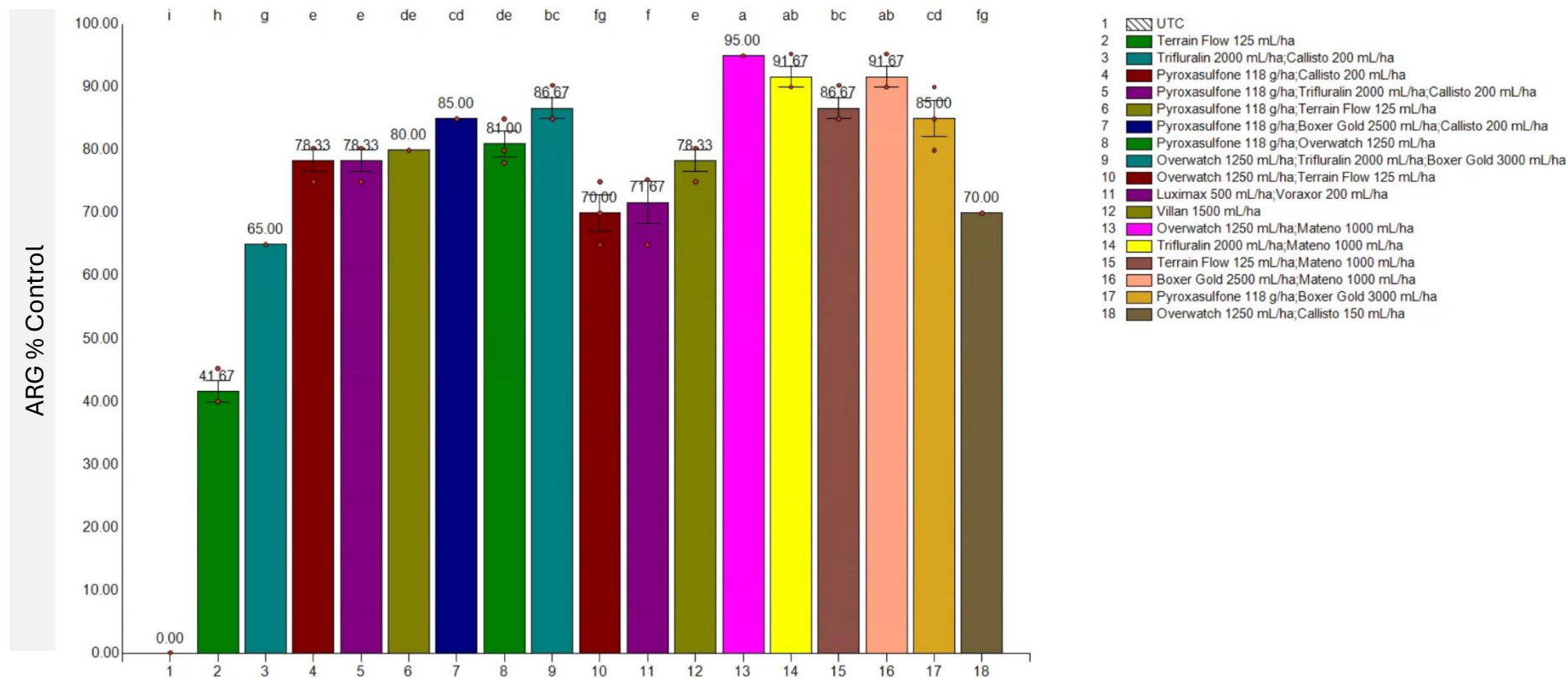
Assessment 2: 14 DA-B - 15th July 2024

Crop Safety – Phytotoxicity



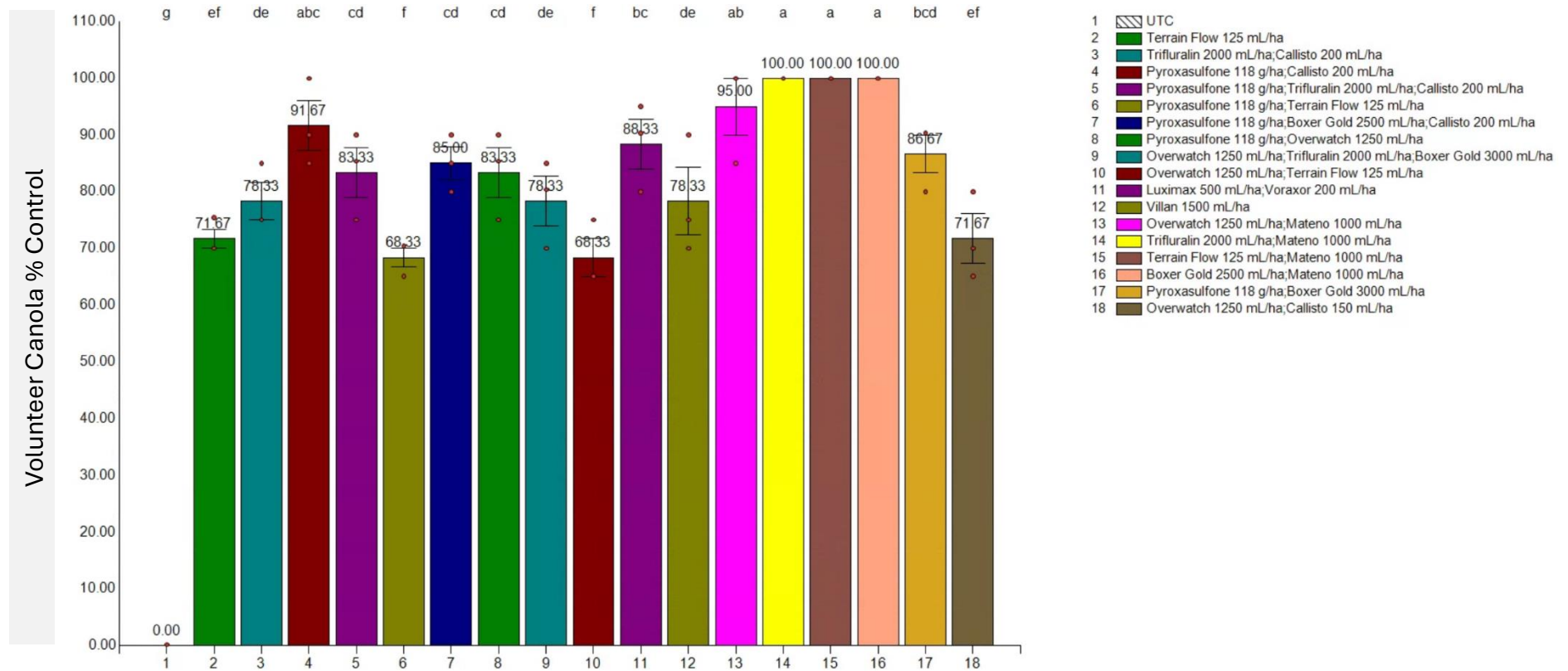
Assessment 3: 36 DA-B – 5th August 2024

Annual Ryegrass % Control



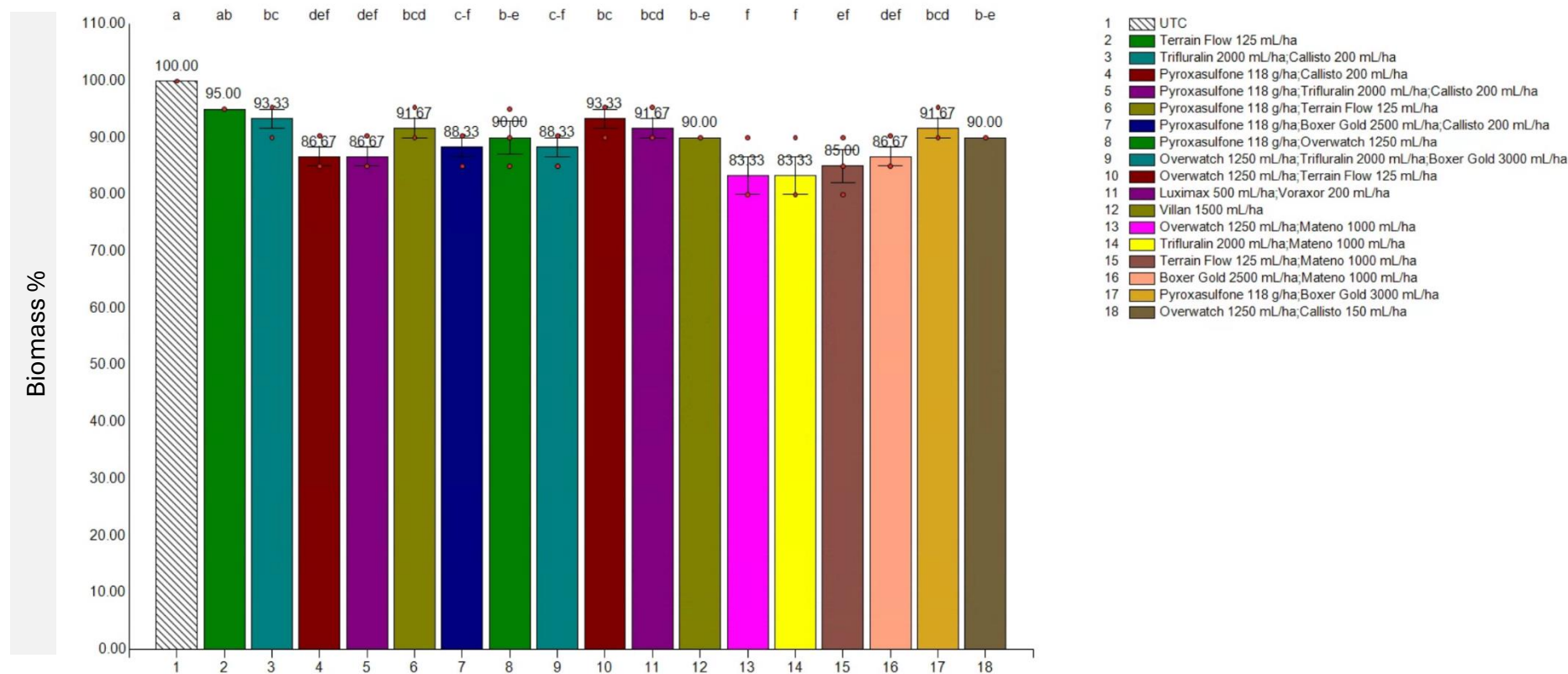
Assessment 3: 36 DA-B – 5th August 2024

Volunteer Canola % Control



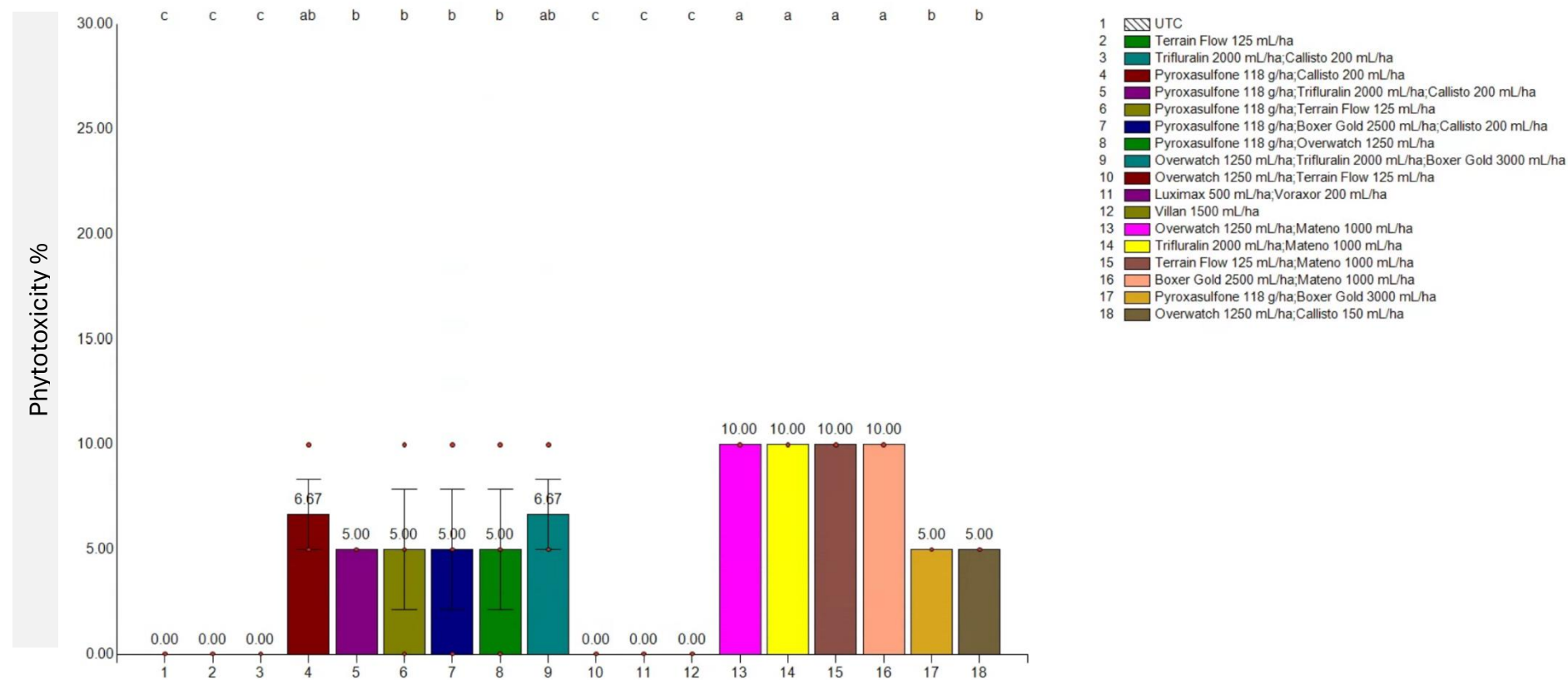
Assessment 3: 36 DA-B – 5th August 2024

Crop safety - Biomass

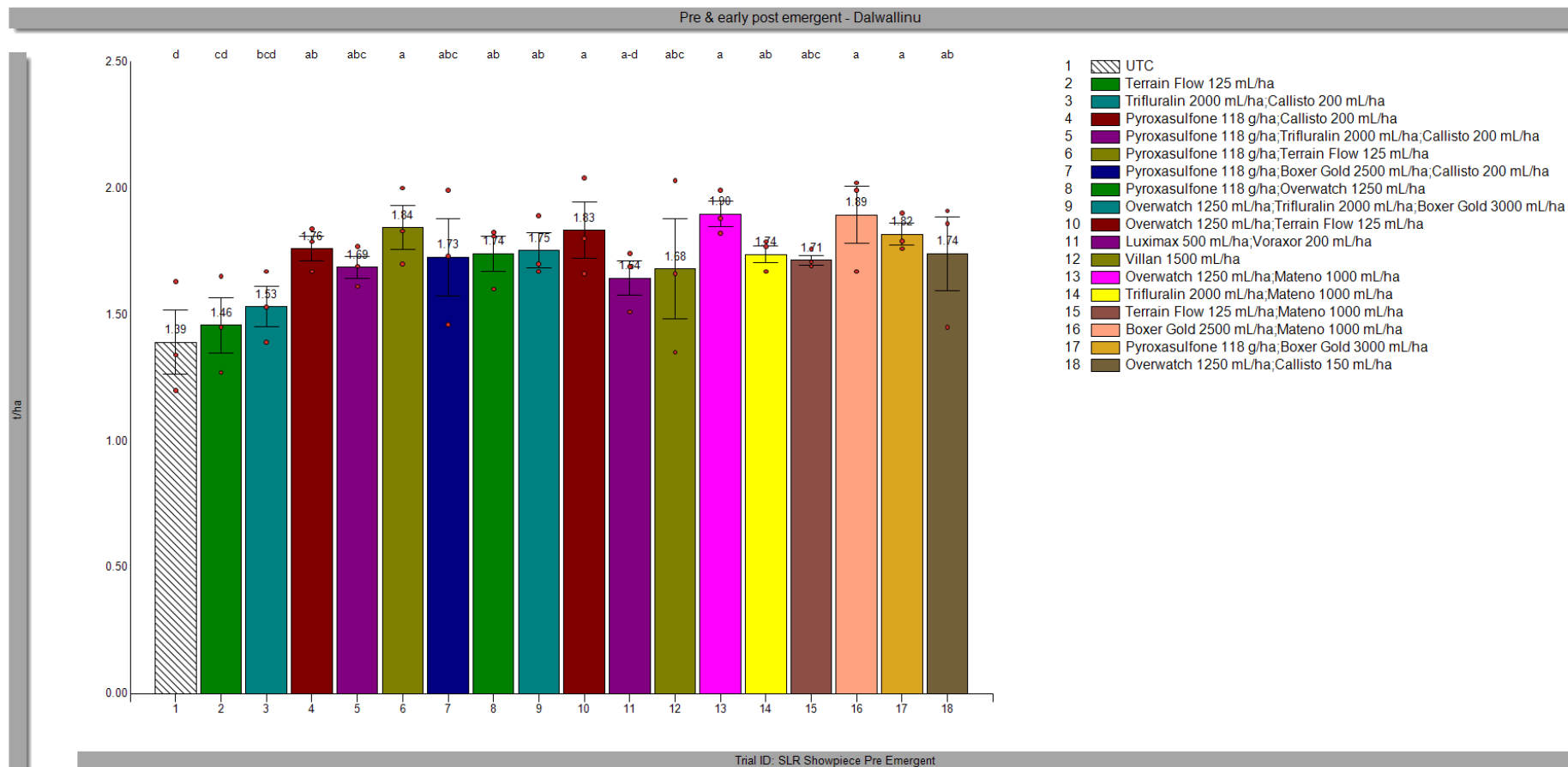


Assessment 3: 36 DA-B – 5th August 2024

Crop Safety – Phytotoxicity



Dalwallinu Yield Data (t/ha)



ANVOA Means Table – Assessment 1, 1st July 2024, 21 DA-A

Rating Date SE Description					1/07/2024 ARG per m2 COUNT /m2 3 A1 21 DA-A	1/07/2024 Canola/Radish per m2 COUNT /m2 3 A1 21 DA-A	1/07/2024 ARG Control % % 1 A1 21 DA-A
Rating Type	Rating Unit	Number of Subsamples	Rating Timing	Treatment Appl. Interval			
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code			
1	UTC				159.56 a	5.33 ab	0 h
2	Terrain Flow	125	mL/ha	A	37.33 bc	0.89 c	73.33 g
3	Trifluralin	2000	mL/ha	A	24.89 cde	0.44 c	86.67 bc
	Callisto	200	mL/ha	A			
4	Pyroxasulfone	118	g/ha	A	19.11 cde	0.89 c	85 bcd
	Callisto	200	mL/ha	A			
5	Pyroxasulfone	118	g/ha	A	8.89 e	1.33 c	93.33 a
	Trifluralin	2000	mL/ha	A			
	Callisto	200	mL/ha	A			
6	Pyroxasulfone	118	g/ha	A	19.56 cde	1.33 c	90 ab
	Terrain Flow	125	mL/ha	A			
7	Pyroxasulfone	118	g/ha	A	18.22 cde	0.89 c	86.67 bc
	Boxer Gold	2500	mL/ha	A			
	Callisto	200	mL/ha	A			
8	Pyroxasulfone	118	g/ha	A	21.78 cde	1.78 c	85 bcd
	Overwatch	1250	mL/ha	A			
9	Overwatch	1250	mL/ha	A	23.11 cde	6.22 a	85 bcd
	Trifluralin	2000	mL/ha	A			
	Boxer Gold	3000	mL/ha	B			
10	Overwatch	1250	mL/ha	A	33.78 bcd	2.67 bc	85 bcd
	Terrain Flow	125	mL/ha	A			
11	Luximax	500	mL/ha	A	33.78 bcd	2.67 bc	76.67 fg
	Voraxor	200	mL/ha	A			
12	Villan	1500	mL/ha	A	27.56 b-e	0.89 c	80 def
13	Overwatch	1250	mL/ha	A	45.78 b	3.56 abc	73.33 g
	Mateno Complete	1000	mL/ha	B			
14	Trifluralin	2000	mL/ha	A	20.89 cde	5.33 ab	81.67 c-f
	Mateno Complete	1000	mL/ha	B			
15	Terrain Flow	125	mL/ha	A	32.44 bcd	0.44 c	83.33 cde
	Mateno Complete	1000	mL/ha	B			
16	Boxer Gold	2500	mL/ha	A	21.78 cde	1.33 c	90 ab
	Mateno Complete	1000	mL/ha	B			
17	Pyroxasulfone	118	g/ha	A	16.44 de	0.44 c	86.67 bc
	Boxer Gold	3000	mL/ha	A			
18	Overwatch	1250	mL/ha	A	26.67 b-e	0.44 c	78.33 efg
	Callisto	150	mL/ha	A			
LSD					20.014	3.278	5.042
P=.05							
Standard Deviation					12.062	1.975	3.038
CV					36.7	96.39	3.85
Replicate F					1.089	8.361	0.15
Replicate Prob(F)					0.348	0.0011	0.8609
Treatment F					22.172	2.682	135.823
Treatment Prob(F)					0.0001	0.007	0.0001

ANVOA Means Table – Assessment 2, 15th July 2024, 14 DA-B

Rating Date SE Description Rating Type Rating Unit Number of Subsamples Rating Timing Treatment Appl. Interval					15/07/2024 ARG per m2 COUNT /m2 A2 14 DA-B	15/07/2024 ARG Control % A2 14 DA-B	15/07/2024 Radish per m2 COUNT /m2 A2 14 DA-B	15/07/2024 Phytotoxicity PHYGEN % A2 14 DA-B	15/07/2024 Biomass Reduction BIOMRE % A2 14 DA-B
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	8		10	11	12
1	UTC				216.89 a	0 g	5.33 -	0 -	0 na
2	Terrain Flow	125	ml/ha	A	74.22 b	65.67 f	0 -	6.67 -	0 na
3	Trifluralin	2000	ml/ha	A	40.89 c	81 e	4.44 -	3.33 -	0 na
	Callisto	200	ml/ha	A					
4	Pyroxasulfone	118	g/ha	A	27.11 c-f	87.33 cde	0.44 -	3.33 -	0 na
	Callisto	200	ml/ha	A					
5	Pyroxasulfone	118	g/ha	A	11.56 ef	94.67 ab	1.33 -	0 -	0 na
	Trifluralin	2000	ml/ha	A					
	Callisto	200	ml/ha	A					
6	Pyroxasulfone	118	g/ha	A	20.44 c-f	90.67 abc	0.89 -	3.33 -	0 na
	Terrain Flow	125	ml/ha	A					
7	Pyroxasulfone	118	g/ha	A	14.22 def	93.33 abc	0.89 -	3.33 -	0 na
	Boxer Gold	2500	ml/ha	A					
	Callisto	200	ml/ha	A					
8	Pyroxasulfone	118	g/ha	A	10.22 f	95.33 a	0.44 -	3.33 -	0 na
	Overwatch	1250	ml/ha	A					
9	Overwatch	1250	ml/ha	A	15.11 def	93 abc	3.11 -	0 -	0 na
	Trifluralin	2000	ml/ha	A					
	Boxer Gold	3000	ml/ha	B					
10	Overwatch	1250	ml/ha	A	38.22 cd	82.33 de	0.44 -	3.33 -	0 na
	Terrain Flow	125	ml/ha	A					
11	Luximax	500	ml/ha	A	18.67 c-f	91.33 abc	0.44 -	3.33 -	0 na
	Voraxor	200	ml/ha	A					
12	Villan	1500	ml/ha	A	28.89 c-f	86.67 cde	1.33 -	0 -	0 na
13	Overwatch	1250	ml/ha	A	28.44 c-f	87 cde	0 -	8.33 -	0 na
	Mateno	1000	ml/ha	B					
	Complete								
14	Trifluralin	2000	ml/ha	A	27.11 c-f	87.33 cde	0.89 -	10 -	0 na
	Mateno	1000	ml/ha	B					
	Complete								
15	Terrain Flow	125	ml/ha	A	36.89 cde	83 de	0 -	5 -	0 na
	Mateno	1000	ml/ha	B					
	Complete								
16	Boxer Gold	2500	ml/ha	A	11.56 ef	94.33 ab	0 -	6.67 -	0 na
	Mateno	1000	ml/ha	B					
	Complete								
17	Pyroxasulfone	118	g/ha	A	17.78 c-f	92 abc	0.44 -	0 -	0 na
	Boxer Gold	3000	ml/ha	A					
18	Overwatch	1250	ml/ha	A	24.89 c-f	88.33 bcd	1.33 -	3.33 -	0 na
	Callisto	150	ml/ha	A					
LSD					25.562	6.864	3.345	8.086	.
P=.05					15.405	4.136	2.016	4.873	0
Standard Deviation					41.82	4.99	166.64	138.5	0
CV					5.621	10.119	1.077	0.546	NaN
Replicate F					0.0078	0.0004	0.3519	0.5843	NaN
Replicate Prob(F)					28.43	83.769	1.746	1.11	NaN
Treatment F					0.0001	0.0001	0.0817	0.3842	NaN
Treatment Prob(F)									

ANVOA Means Table – Assessment 3, 5th August 2024, 35 DA-B

Rating Date SE Description Rating Type Rating Unit Number of Subsamples Rating Timing Treatment Appl. Interval					5/08/2024 ARG control % 1 A3 35 DA-B	5/08/2024 Canola/Radish Control % 1 A3 35 DA-B	5/08/2024 Biomass % 1 A3 35 DA-B	5/08/2024 Phytotoxicity PHYGEN % 1 A3 35 DA-B
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code				
1	UTC				0 i	0 g	100 a	0 c
2	Terrain Flow	125	ml/ha	A	58.33 h	71.67 ef	95 ab	0 c
3	Trifluralin	2000	ml/ha	A	71.67 g	78.33 de	93.33 bc	0 c
	Callisto	200	ml/ha	A				
4	Pyroxasulfone	118	g/ha	A	83.33 cde	91.67 abc	86.67 def	6.67 ab
	Callisto	200	ml/ha	A				
5	Pyroxasulfone	118	g/ha	A	78.33 ef	83.33 cd	86.67 def	5 b
	Trifluralin	2000	ml/ha	A				
	Callisto	200	ml/ha	A				
6	Pyroxasulfone	118	g/ha	A	81.67 c-f	68.33 f	91.67 bcd	5 b
	Terrain Flow	125	ml/ha	A				
7	Pyroxasulfone	118	g/ha	A	85 cd	85 cd	88.33 c-f	5 b
	Boxer Gold	2500	ml/ha	A				
	Callisto	200	ml/ha	A				
8	Pyroxasulfone	118	g/ha	A	81 def	83.33 cd	90 b-e	5 b
	Overwatch	1250	ml/ha	A				
9	Overwatch	1250	ml/ha	A	86.67 bc	78.33 de	88.33 c-f	6.67 ab
	Trifluralin	2000	ml/ha	A				
	Boxer Gold	3000	ml/ha	B				
10	Overwatch	1250	ml/ha	A	78.33 ef	68.33 f	93.33 bc	0 c
	Terrain Flow	125	ml/ha	A				
11	Luximax	500	ml/ha	A	71.67 g	88.33 bc	91.67 bcd	0 c
	Voraxor	200	ml/ha	A				
12	Villan	1500	ml/ha	A	78.33 ef	78.33 de	90 b-e	0 c
13	Overwatch	1250	ml/ha	A	95 a	95 ab	83.33 f	10 a
	Mateno Complete	1000	ml/ha	B				
14	Trifluralin	2000	ml/ha	A	91.67 ab	100 a	83.33 f	10 a
	Mateno Complete	1000	ml/ha	B				
15	Terrain Flow	125	ml/ha	A	86.67 bc	100 a	85 ef	10 a
	Mateno Complete	1000	ml/ha	B				
16	Boxer Gold	2500	ml/ha	A	91.67 ab	100 a	86.67 def	10 a
	Mateno Complete	1000	ml/ha	B				
17	Pyroxasulfone	118	g/ha	A	85 cd	86.67 bcd	91.67 bcd	5 b
	Boxer Gold	3000	ml/ha	A				
18	Overwatch	1250	ml/ha	A	76.67 fg	71.67 ef	90 b-e	5 b
	Callisto	150	ml/ha	A				
LSD P=.05					5.629	9.728	5.672	3.664
Standard Deviation					3.392	5.862	3.418	2.208
CV					4.42	7.39	3.81	47.69
Replicate F					0.063	2.64	0.119	1.804
Replicate Prob(F)					0.9393	0.0859	0.8883	0.18
Treatment F					114.8	43.82	4.636	9.162
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001

ANVOA Means Table – Assessment 4, 26th September 2024,87 DA-B

Rating Date SE Description Rating Type Rating Unit Number of Subsamples Rating Timing Treatment Appl. Interval					26/09/2024 ARG per m2 COUNT /m2 A4 87 DA-B	26/09/2024 ARG Control % A4 87 DA-B	26/09/2024 Radish per plot A4 87 DA-B	26/09/2024 Biomass % A4 87 DA-B	26/09/2024 Phytotoxicity PHYGEN % A4 87 DA-B
Trt No.	Treatment Name	Reate	Rate Unit	Appl Code	17	18	19	20	21
1	UTC				143.56 a	0 h	11 a	93.33 -	0 na
2	Terrain Flow	125	ml/ha	A	52.89 b	63.33 g	4 bcd	96.67 -	0 na
3	Trifluralin	2000	ml/ha	A	28.44 cd	80.33 f	2.67 bcd	100 -	0 na
	Callisto	200	ml/ha	A					
4	Pyroxasulfone	118	g/ha	A	13.33 efg	90.33 bcd	2.67 bcd	96.67 -	0 na
	Callisto	200	ml/ha	A					
5	Pyroxasulfone	118	g/ha	A	16 d-g	89 b-e	4.67 bc	93.33 -	0 na
	Trifluralin	2000	ml/ha	A					
	Callisto	200	ml/ha	A					
6	Pyroxasulfone	118	g/ha	A	14.22 efg	90 bcd	5.67 b	91.67 -	0 na
	Terrain Flow	125	ml/ha	A					
7	Pyroxasulfone	118	g/ha	A	11.11 efg	92.33 abc	2.67 bcd	93.33 -	0 na
	Boxer Gold	2500	ml/ha	A					
	Callisto	200	ml/ha	A					
8	Pyroxasulfone	118	g/ha	A	20.89 c-f	85.33 c-f	4 bcd	93.33 -	0 na
	Overwatch	1250	ml/ha	A					
9	Overwatch	1250	ml/ha	A	12.89 efg	91 bcd	6.33 b	93.33 -	0 na
	Trifluralin	2000	ml/ha	A					
	Boxer Gold	3000	ml/ha	B					
10	Overwatch	1250	ml/ha	A	22.22 cde	84.33 def	5 b	95 -	0 na
	Terrain Flow	125	ml/ha	A					
11	Luximax	500	ml/ha	A	24.89 cde	82.67 ef	4.33 bcd	95 -	0 na
	Voraxor	200	ml/ha	A					
12	Villan	1500	ml/ha	A	16 d-g	88.67 b-e	4.67 bc	91.67 -	0 na
13	Overwatch	1250	ml/ha	A	7.11 fg	95 ab	0.33 cd	96.67 -	0 na
	Mateno Complete	1000	ml/ha	B					
14	Trifluralin	2000	ml/ha	A	7.56 fg	94.67 ab	0 d	98.33 -	0 na
	Mateno Complete	1000	ml/ha	B					
15	Terrain Flow	125	ml/ha	A	7.56 fg	94.67 ab	0.33 cd	96.67 -	0 na
	Mateno Complete	1000	ml/ha	B					
16	Boxer Gold	2500	ml/ha	A	2.22 g	98.33 a	0 d	96.67 -	0 na
	Mateno Complete	1000	ml/ha	B					
17	Pyroxasulfone	118	g/ha	A	14.22 efg	90 bcd	2.67 bcd	96.67 -	0 na
	Boxer Gold	3000	ml/ha	A					
18	Overwatch	1250	ml/ha	A	30.22 c	78.67 f	3 bcd	96.67 -	0 na
	Callisto	150	ml/ha	A					
LSD P=.05					14.081	7.318	4.663	6.468	.
Standard Deviation					8.486	4.41	2.81	3.898	0
CV					34.3	5.33	79.04	4.09	0
Replicate F					2.849	3.926	12.583	1.097	NaN
Replicate Prob(F)					0.0718	0.0292	0.0001	0.3455	NaN
Treatment F					42.182	75.577	2.741	1.048	NaN
Treatment Prob(F)					0.0001	0.0001	0.006	0.437	NaN

Dalwallinu ANOVA Means Table (t/ha)

Rating Date SE Description Number of Subsamples Days After First/Last Applic.					12/11/2024 t/ha 1 134 DA-B
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	
1	UTC				1.39 d
2	Terrain Flow	125	ml/ha	A	1.46 cd
3	Trifluralin	2000	ml/ha	A	1.53 bcd
	Callisto	200	ml/ha	A	
4	Pyroxasulfone	118	g/ha	A	1.76 ab
	Callisto	200	ml/ha	A	
5	Pyroxasulfone	118	g/ha	A	1.69 abc
	Trifluralin	2000	ml/ha	A	
	Callisto	200	ml/ha	A	
6	Pyroxasulfone	118	g/ha	A	1.84 a
	Terrain Flow	125	ml/ha	A	
7	Pyroxasulfone	118	g/ha	A	1.73 abc
	Boxer Gold	2500	ml/ha	A	
	Callisto	200	ml/ha	A	
8	Pyroxasulfone	118	g/ha	A	1.74 ab
	Overwatch	1250	ml/ha	A	
9	Overwatch	1250	ml/ha	A	1.75 ab
	Trifluralin	2000	ml/ha	A	
	Boxer Gold	3000	ml/ha	B	
10	Overwatch	1250	ml/ha	A	1.83 a
	Terrain Flow	125	ml/ha	A	
11	Luximax	500	ml/ha	A	1.64 a-d
	Voraxor	200	ml/ha	A	
12	Villan	1500	ml/ha	A	1.68 abc
13	Overwatch	1250	ml/ha	A	1.9 a
	Mateno Complete	1000	ml/ha	B	
14	Trifluralin	2000	ml/ha	A	1.74 ab
	Mateno Complete	1000	ml/ha	B	
15	Terrain Flow	125	ml/ha	A	1.71 abc
	Mateno Complete	1000	ml/ha	B	
16	Boxer Gold	2500	ml/ha	A	1.89 a
	Mateno Complete	1000	ml/ha	B	
17	Pyroxasulfone	118	g/ha	A	1.82 a
	Boxer Gold	3000	ml/ha	A	
18	Overwatch	1250	ml/ha	A	1.74 ab
	Callisto	150	ml/ha	A	
LSD P=.05					0.276
Standard Deviation					0.167
CV					9.72
Grand Mean					1.713
Replicate F					1.888
Replicate Prob(F)					0.167
Treatment F					2.066
Treatment Prob(F)					0.0352

Treatment application details

Treatment application	A	B
Application Timing	IBS	EPE
Crop Stage	-	Z12 to 13 – 2 to 3 leaves emerged
Weed Stage	-	1 to 2 leaf
Date	10th June 2024	1st July 2024
Time	1:30pm to 2:40pm	1:00pm to 2:00pm
Cloud cover (%)	60%	5%
Temperature (°C)	17.3	15.4
Relative Humidity (%)	80.7	68.9
Delta T (°C)	2.4	3.3
Wind Speed Km/hr	15	16
Wind Direction	WNW	NE
Soil moisture	Full moisture profile	Full moisture profile
Dew point (°C)	13.9	9.8

Application equipment	A	NE
Application equipment	Brolga 2m Hand boom	Brolga 2m Hand boom
Nozzles	110 – 015 Agrotop - Flat fan air induction	110-010 Agrotop
Number of nozzles	4	4
Nozzle spacing	50cm	50cm
Boom height	50cm above canopy	50cm above canopy
Water volume	80 L/ha	80 L/ha
Spraying pressure	220 kPa	220 kPa
Mix size	2 L	2 L
Spray Quality	Coarse	Coarse
Propellant	CO ₂	CO ₂

SLR Pre and Early Post Emergent Contributors



We create chemistry

