

Species: ARTR

Temp range: 5-25°C

DayHr: 12

Was planted Sept 10 7-1230 but not put on table until next day

Date 8/25/28
Name TEM

Proj.

Planted: Sept 11 20

Start Time 9:03
End Time _____

SA Levels/Codes

Control = C

Water = W

0.5mM =

1.0mM =

L (low)

H (high)

1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	
1																												
1	OH	OL	OL	OH	OL																							
2	7/2W	0W	OC	7/2*	7/4*	7/1*	7/5*	OW	OS	OW	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	
2	OW	0W	0W	7/2*	7/2*	7/2*	7/2*	0L	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	
3	OH	7/2*	OL	7/2*	7/2*	7/2*	7/2*	0L	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	
3	OH	OL	7/2*	OH	OL	7/2*	7/2*	OL																				
4	7/2W	0W	OC	7/2*	7/2*	7/2*	7/2*	0L	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	
4	7/2*	0W	OC	7/2*	7/2*	7/2*	7/2*	0L	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	
5	OH	7/2*	7/4L	OH	OL	7/1*	0L	OH	7/2*	7/4*	7/3*	7/2*	OL	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*
5	7/2*	7/4*	OL	OH	OL	7/2*	7/2*	0L	OH	OL	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	
6	OW	7/2*	7/2*	7/2*	0W	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	
6	7/2*	0W	0W	7/2*	7/2*	7/2*	7/2*	0L	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	
7	7/2*	0W	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	
7	OH	OL	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	
8	OH	OL	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	
8	7/2W	0L	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	
9	7/2*	0W	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	
9	OH	OL	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	
10	OW	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	
10	7/2*	0W	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	
11	OH	7/2*	7/2*	OL																								
11	OH	OL	7/2*	7/2*	OL																							
12	OW	7/2*	0L	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*
12	7/2*	0L	0L	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*
13	7/2*	0W	0L	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*
13	OH	OL	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*
14	7/2*	0W	0L	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*
14	7/2*	0W	0L	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*	7/2*

Codes:

- 0 no radicle or coleoptile emergence
- 1 first instance of radicle emergence (**must be used and can only use once**)
- 2 radicle 1-5mm long
- 3 radicle 6-10mm
- 4 radicle 10-20mm
- 5 radicle >20mm

- 6 coleoptile emergence (**must be used and can only use once**)
- 7 coleoptile length 0-10mm
- 8 coleoptile length 10-20mm
- 9 coleoptile >20mm

Notes:

Species: ARTR

Was planted Sept 10 7-1230 but not put on table until next day

PI: Martyn

Temp range: 5-25oC

Project: SA Species

DayHr: 12

Planted: Sept 11 2025 @ 0800

Date 9/24/25
Name TSM

SA Levels/Codes

Control =	C	0.5mM =	L (low)
Water =	W	1.0mM =	H (high)

Start Time	<u>7:19 - 8:45</u>
End Time	<u>10:50 - 11:14</u>

1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14						
1	OL																																
1	OL	OL	b1/2	OL	OL	2	OL																										
2	OH	Thru	ow	b1/2	OH	2W	Thru	b1/2	Thru	OH	W	OH	Thru	ow	Thru	OH																	
2	OH	OW	2W	OH	OW	Thru	Thru	1W	Thru	OH	Thru	OH	Thru	OH	Thru	OH																	
3	OL	Thru	2C	Thru	OL	Thru	OL	Thru	OL	OL	Thru																						
3	OL	Thru	OL	OL	2	OL	Thru	OL	Thru	OL																							
4	OH	b1/2	Thru	OW	OH	Thru	2W	OH	Thru	OH																							
4	OH	Thru	OW	OH	Thru	Thru	OH	Thru	OH	OH	Thru	OH																					
5	Thru	Thru	b1/2	b1/2	OL	Thru	Thru	b1/2	b1/2	OL	OL	Thru	b1/2	Thru	b1/2	OL	Thru	b1/2															
5	OL	IC	Thru	OL	b1/2	Thru	OL	OL	OL	OL	OL	Thru	OL	Thru	OL																		
6	OH	ow	Thru	OH	Thru	Thru	OH	OH	Thru	Thru	OH	OH	Thru	Thru	OH																		
6	OH	Thru	OW	OH	Thru	Thru	OH	OH	Thru	Thru	OH	OH	Thru	Thru	OH																		
7	Thru	OL	OL	OL	OL	b1/2	OL	Thru	Thru	OL	Thru																						
7	OL	OL	Thru	OL	b1/2	OL	Thru	OL	Thru	OL	OL	Thru	OL	Thru	OL	OL	Thru	OL	OL	Thru	OL	Thru	OL	OL	Thru	OL	Thru	OL	OL	Thru	OL		
8	Thru	OH	Thru	OH	Thru	Thru	OH	OH	Thru	Thru	OH	Thru	Thru	OH	OH	Thru	Thru	OH	Thru	OH	Thru	OH											
8	OH	OH	Thru	Thru	OH	Thru	Thru	OH	Thru	OH	Thru	Thru	OH	Thru	OH	Thru	OH	Thru	OH	Thru	OH	Thru											
9	OL	OL	Thru	OL	OL	Thru	OL	OL	OL	OL	OL	Thru	OL																				
9	b1/2	OL	Thru	OL	OL	Thru	OL	OL	OL	OL	OL	Thru	OL																				
10	Thru	OH	OP	Thru	Thru	OH	Thru																										
10	OH	OH	2	Thru	OH	Thru	OH	OH	Thru	Thru	OH																						
11	Thru	OL	OL																														
11	OL	Thru	OL	OL	Thru	OL	OL																										
12	OH	Thru	OW	Thru	Thru	OH	Thru	Thru																									
12	OH	OW	OH	Thru	Thru	OH	Thru	Thru																									
13	OL	OL																															
13	OL	OL																															
14	OH	Thru	b1/2	b1/2	OH	Thru	Thru	OH																									
14	OH	Thru	b1/2	b1/2	OH	Thru	Thru	OH																									

Codes:

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- 1 first instance of radicle emergence (**must be used and can only use once**)
- 2 radicle 1-5mm long
- 3 radicle 6-10mm
- 4 radicle 10-20mm
- 5 radicle >20mm
- 6 coleoptile emergence (**must be used and can only use once**)
- 7 coleoptile length 0-10mm
- 8 coleoptile length 10-20mm
- 9 coleoptile >20mm

Notes:

* = first true leaves

Species: ARTR

Was planted Sept 10 7-1230 but not put on table until next day

PI: Martyn

Temp range: 5-25°C

Project: SA Species

DayHr: 12

Planted: Sept 11 2025 @ 0800

Date 9/23/25

Start Time 8:30am

Name MTT

End Time 10:05am

SA Levels/Codes

Control = C

0.5mM =

L (low)

Water = W

1.0mM =

H (high)

	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14		
1	OC	2W	OW	2C	EC	2W	2W	OC	CW	2C	OC	ON	2W	OC	2C	OC	2W	2W	OC	EC	2C	ON	2W							
1	OC	OC	OW	2C	OC	ON	2W	OC	2C	ON	2W	2C	OC	2W	2C	OC	2W	2C	OC	2C	OC	2W	2C	OC	2C	ON	J			
2	2L	OL	OH	OL	2H	OH	OL	2L	1H	H	OL	OH	2H	2L	OL	OH	OL	OH	OL	OH	OL	2L	4	CH						
2	CL	OH	OL	2H	OH	OL	2H	CL	3H	H	OL	OH	OL	2L	SH	OH	OL	2L	SH	OH	OL	L	2H							
3	2C	2W	ON	OC	2W	1W	OC	2C	2W	CW	OC	2C	2W	AW	2C	2W	2C	2W	2C	ON	2C	2C	2W	2W						
3	OC	2W	ON	OC	2C	2W	3C	2C	2W	2W	OC	2W	2C	2W	2C	OC	2W	2C	2W	2C	OC	2C	2W	2W						
4	OL	2L	CH	2H	OC	2H	OH	2L	2L	OH	OL	2L	2H	2H	2H	OL	2L	2H	2H	OH	OL	CH	2H	OL	OH	2H				
4	CL	2L	OH	CL	L	OH	2L	OL	2H	OH	CL	OL	OL	OL	OL	OH	OL	2L	2H	2H	OL	2L	2H	2H	OL	2L	2H			
5	2C	1C	ON	2W	2C	2C	OC	2W	2C	2W	2C	2C	2C	2C	2C	ON	2C	2C	2C	2C	2C	ON	2C	2C	2W	2W				
5	OC	2C	2W	2W	2C	OC	2W	2W	OC	ON	2C	2C	2W	2W	2C	OC	2C	2C	2W	2C	OC	2C	2C	2C	2C	ON				
6	2L	2L	OL																											
6	OL	1H	H	CL	2L	OH	OL																							
7	OC	2W	2W	OC	2C	2W	2W	OC	2C																					
7	OC	2C																												
8	2L	2L	2H	OH	OL	X																								
8	CL	OH	OL	2H	2H	OL																								
9	OC	2C	2W	2W	OC	2C	2W	2C																						
9	2C																													
10	OL	2H	OH	OL																										
10	2L	OL	OH	OL																										
11	OC	2W	2C																											
11	OC	2W	2C																											
12	OL	2H	2H	OL																										
12	CL	OL																												
13	OC	2W	2W	OC	2C																									
13	OC	2W	2W	OC	2C																									
14	SL	OH	OL	OL	1H	OH	2L	OL	OH	2H	OL																			
14	OL	2H	OH	OL	2H	OH	OL																							

Codes:

- 0 no radicle or coleoptile emergence
- 1 first instance of radicle emergence (must be used and can only use once)
- 2 radicle 1-5mm long
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- 5 radicle >20mm
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- 9 coleoptile >20mm

Notes:

Species: ARTR

Was planted Sept 10 7-1230 but not put on table until next day

PI: Martyn

Temp range: 5-25oC

Project: SA Species

DayHr: 12

Planted: Sept 11 2025 @ 0800

Date 9/22/25

Start Time 8:25am

Name MH

End Time 10:00 am

SA Levels/Codes

Control = C

0.5mM =

L (low)

Water = W

1.0mM =

H (high)

	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14
1	ZW	ZW	O	H	ZW	IH	O	H	CW	O	H	ZW	O	H	ZW	O	H	O	H	ZW	O	H	O	ZW	O	H		
1	ON	OH	O	H	ON	ZW	ZH	OH	CW	EN	ZH	H	ZW	ON	ZW	ZH	CH	ZW	ZH	OH	CW	ZH	OH	ZH	ZH	ZH	ZH	
2	OC	ZL	CL	ZC	ZC	OC	OL	OC	ZL	ZC	OC	OL	OC	ZL	OC	ZC	OC	OL	OC	ZC	OL	ZC	OL	ZC	ZC	ZC	ZC	
2	OC	ZC	CL	ZC	ZC	OC	OL	CC	ZC	OC	OL	OC	ZC	ZC	OL	ZC	ZC	ZC										
3	ZW	ZW	OH	IH	ZW	ZW	O	H	ZW	ON	OH	ZW	ZW	ZH	ZH	ZW	ZH											
3	ZW	ZW	OH	ZH	ZW	ZW	O	H	ZW	EN	ZH																	
4	ZC	ZC	OL	ZL	OC	OL	ZL	OC	ZC	ZL	OC	ZC	ZL	ZC	ZL	ZC	ZL	ZC	ZL	ZC	OL	ZC	ZC	ZC	ZC	ZC		
4	OC	ZL	ZC	ZL	OC	ZL	ZC																					
5	ON	ZW	CH	ON	ZW	O	H	ZW	ZH	O	H	ON	ZW	ZH	O	H	ON	ZW	ZH	CH	ZW	ZH	ZW	ZH	ZW	ZH		
5	ZW	ZW	OH	ZH	ZW	ZW	O	H	ON	ZH	OH	ZW	ZW	ZH	O													
6	ZC	ZC	ZL	ZC	ZC	OC	OL	ZL	ZC	ZL	ZC	OC	ZL	ZC	ZC	ZC	ZC											
6	OC	ZC	ZL	OC	ZC																							
7	ZW	ZW	ZH	AH	ZW	ZW	O	H	ZW	ON	OH	ZW	ZH															
7	CW	ON	OH	ZW	ZH	ZH	O	H	CW	ZH	O																	
8	OC	ZL	ZC	ZC	ZC	ZC	O	L	OC	ZL	ZC																	
8	OC	ZC	OL	ZC	ZC	ZC	O	L	OC	ZL	ZC																	
9	ON	ZW	ZH	CH	ZW	ZW	ZH	ZH	ZW	ZH	ZW	ZH	ZW	ZH														
9	ON	ZW	ZH	O	H	CW	ZH																					
10	OC	ZC	OL	OC	ZC	ZC	O	L	OC	ZC																		
10	ZC	ZC	ZL	ZL	ZL	ZC	O	L	ZC	ZC	ZL	ZC																
11	CW	ZW	CH	ZH	ZW	ZW	O	H	CW	ZH	O	H	ZW	ZH														
11	ON	O	H	ON	O	H	ZH																					
12	OC	ZL	ZC	ZC	ZC	ZC	O	L	OC	ZC	ZL	ZC																
12	OC	ZL	ZC	ZC	ZC	ZC	O	L	OC	ZL	ZC																	
13	ON	ZW	O	H	CW	ZH	ZH	O	H	ZW	ZH																	
13	CW	O	H	ZW	ZW	ZH	O																					
14	OC	ZL	ZC	ZC	ZC	ZC	O	L	OC	ZL	ZC																	
14	OC	ZL	ZC	ZC	ZC	ZC	O	L	OC	ZL	ZC																	

Codes:

- 0 no radicle or coleoptile emergence
 1 first instance of radicle emergence (**must be used and can only use once**)
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Notes:

Species: ARTR

Was planted Sept 10 7-1230 but not put on table until next day

PI: Martyn

Temp range: 5-25oC

Project: SA Species

DayHr: 12

Planted: Sept 11 2025 @ 0800

Date 9/21/28

Start Time 8:28

Name Tern

End Time 9:55

SA Levels/Codes

Control = C

0.5mM =

L (low)

Water = W

1.0mM =

H (high)

Species: ARTR

Was planted Sept 10 7-1230 but not put on table until next day

PI: Martyn

Temp range: 5-25oC

Project: SA Species

DayHr: 12

Planted: Sept 11 2025 @ 0800

Date 9/20/25
Name Tom

SA Levels/Codes

Control = C

0.5mM =

L (low)

Water = W

1.0mM =

H (high)

Start Time 8:24

End Time 10:06

	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14
1	9/20	04	OL	OL	6/12	C	9/4	OL	6/24	OL																		
1	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
2	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
2	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
3	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
3	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
4	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
4	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
5	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
5	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
6	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
6	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
7	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
7	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
8	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
8	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
9	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
9	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
10	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
10	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
11	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
11	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
12	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
12	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
13	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
13	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
14	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
14	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL

Codes:

- 0 no radicle or coleoptile emergence
- 1 first instance of radicle emergence (**must be used and can only use once**)
- 2 radicle 1-5mm long
- 3 radicle 6-10mm
- 4 radicle 10-20mm
- 5 radicle >20mm
- 6 coleoptile emergence (**must be used and can only use once**)
- 7 coleoptile length 0-10mm
- 8 coleoptile length 10-20mm
- 9 coleoptile >20mm

Notes:

Species: ARTR

Was planted Sept 10 7-1230 but not put on table until next day

Pl: Martyn

Temp range: 5-25oC

Project: SA Species

DayHr: 12

Planted: Sept 11 2025 @ 0800

Date 9/19/28

Start Time 8:42 am
 End Time 10:24 am *use pencil*

Name MH

SA Levels/Codes

Control =	C	0.5mM =	L (low)
Water =	W	1.0mM =	H (high)

1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	
1																												
1	OC	IW	OW	2C	3C	CW	5W	CC	CW	2C	CC	CW	3W	OC						2C	CC	2CW	CW	3C	OW	2W		
1	OC	OW		2C	CC	CW	5W	CC	2C	CW	3C	CC	3W	CC	OC	ON				2C	CC	CW	2C	2C	CW	5W		
2	2L	OL	OH	OL	OL	OH	3L	OL	OH	3L	OL	OH	3L	OL	OL	OH	OL	OL	OL	3L	OL	OH						
2	OL	OH	OL	OL	OH	OL	3H	OL	OH	OL	OL	OH	OL	OL	OL	OH	OL	OL	OL	3L	OL	OH	3H					
3	OL	IC	2W	OW	OC	3W	CW	OC	2W	OW	SC	3W	CW	3C	2C	OW	3W	IC	IC	CW	2C	OC	3W	2W				
3	OC	2W	OW	OC	3C	2W	3W	OC	2W	3W	OC	3W	CW	OC	AV	3C	OC	3W	3C	2C	3W	2W						
4	OL	2L	OL	OL	OL	OL	2L	OL	OL	OL	OH	OL	3H	OL	OL	OH	3H											
4	OL	2L	OH	CL	2L	OH	3L	OL	3H	OH	OL	OL	OH	OL	2H	OL	2H	OL	OL	OL	OH							
5	OC	2C	OW	IW	OC	OW	2W	2C	CC	3W	OC	OC	OW	3C	2C	OW	3W	OC	2C	CW	2C	OC	3W	2W				
5	OC	2L	2W	CW	2C	OC	ON	OC	CW	2C	3C	2W	CW	OC	ON			OC	2W	2C	OC	2C	2W					
6	2L	OL	OH					OL	2L	CH	OL	3L	3H	OH	OL	3L	OL	OH	2L	2L	2H	OH	OL	2L				
6	OL	OH	3H	OL	OL	OH	OL	OL	2H	CH	OL	3L	3H	OL	3H	OL	OL	OH										
7	OC	OW	IW			2W	OW	2C	3C	CW	2C	2C	3W	IW	3C	2C	3W	OC	2C	CW	2C	OC	ON	ON				
7	OC	2C	OV	OC	AV	OC	AV	OC	CW	2C	3C	CW	OC	3C	CW	2W	2C	OC	2W	2C	OC	ON	IW					
8	2L	2L	2H	OH	OL	CH	OL	3L	OL	3L	3H	OH	OL	3L	3H	OL	3L	OL	3L	OL	3L	OL	3H	OL	X			
8	OL	CH	OL	1H	CH	OL	3L	OL	3L	3H	OL	3L	3H	OL	3L	3H	OL	OL	OL	3L	OL	3L	OL	3H	OL			
9	OC	2C	OW	2W	OC	OW	IW	2C	3W	CW	2C	2C	3W	IW	3C	2C	3W	OC	2C	CW	2C	OC	OW					
9	IC	OC	CW	OC	CH	OC	CH	OC	IC	2C	2W	IW	2C	2C	3W	IW	2C	2C	CW	2C	OC	OW						
10	OL	IH	OH	OL	2L	CH	OL	3L	OL	3L	3H	OL	3L	3H	OL	3L	3H	OL	3L	OL	3L	CH	2L	2H	OL	3H		
10	OL	CH	OL	2H	OH	CL	OL	3L	OL	3L	3H	OL	3L	3H	OL	3L	3H	OL	OL	OL	3L	OL	3L	OL	3H	OL		
11	OC	ON	OC	ON	OC	2C	3C	CW	2C	3W	OC	2C	3C	2W	2C	3W	OC	2C	CW	2C	OC	3C	2W					
11	OC	ON	OC	ON	OC	CW	2W	OC	2W	CW	OC	ON		OC	3W	2W	2C	3C	2W	OC	2W							
12	OL	OH	3H	CL	2L	CH	OL	3L	OL	3L	3H	OL	3L	3H	OL	3L	3H	OL	3L	OL	3L	CH	2L	2H	OL	3H		
12	OL	CH	OL	2L	OH	CL	OL	3L	OL	3L	3H	OL	3L	3H	OL	3L	3H	OL	3L	OL	3L	2L	2H	OL	3H	OL		
13	OC	OW	OC	CW	OC	OW	2W	2C	3C	CW	ON	OC	2C	3C	2W	2C	3C	2W	OC	2W	2C	3C	2W	OC	2W	2W		
13	OC	OW	OC	CW	OC	OW	2W	2C	3C	CW	ON	OC	2C	3C	2W	2C	3C	2W	OC	2W	2C	3C	2W	OC	2W	2W		
14	OL	OH	OL	OA	al	al	3H	al	al	al	OL	3L	OH	3H	OL	2L	OH	3H										
14	OL	OH	OL	OA	al	al	3H	al	al	al	OL	3L	OH	3H	OL	2L	OH	3H										

Codes:

- 0 no radicle or coleoptile emergence
- 1 first instance of radicle emergence (**must be used and can only use once**)
- 2 radicle 1-5mm long
- 3 radicle 6-10mm
- 4 radicle 10-20mm
- 5 radicle >20mm
- 6 coleoptile emergence (**must be used and can only use once**)
- 7 coleoptile length 0-10mm
- 8 coleoptile length 10-20mm
- 9 coleoptile >20mm

Notes:

Kris
Stern
dark

Species: ARTR

Was planted Sept 10 7-1230 but not put on table until next day

PI: Martyn

Temp range: 5-25°C

Project: SA Species

DayHr: 12

Planted: Sept 11 2025 @ 0800

Date 9/18/25

Start Time 8:38 am

Name MTT

End Time 10:40 am

SA Levels/Codes

Control =

C

0.5mM =

L (low)

Water =

W

1.0mM =

H (high)

	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14		
1	ON	OH	ON	IW			ON	OH	IH	ON	IW	OH	IH			ON	OH	IH	ON	OH	ON	OH	ON	OH						
1	ON	OH	ON	IW	OH	ON	IW	IH	ON	IW	OH	OH	ON	OH	IH	ON	OH	IH	ON	OH	ON	OH	ON	OH						
2	OC	OL	OC	IH	IH		OC	OL	IH	OC	IH	IH	OC	IH	IH	OC	OL	IH	OC	OL	OC	IH	IH	OC	IH	IH	IH	IH		
2	OC	OL	OC	IH	IH	OC	IH	IH	OC	IH	IH	IH	OC	IH	IH	OC	OL	IH	OC	OL	OC	IH	IH	OC	IH	IH	IH	IH		
3	IW	OH	IW	CW	IH	OH	IW	OH	IH	IW	CW	IH	OH	IH	IH	ON	OH	IH	IW	IH	IW	IH	IW	IH	IH	IH	IH	IH		
3	IW	OH	IW	IW	OH	IW	IW	IH	IH	IW	IW	IH	OH	IW	IH	OH	ON	OH	IW	IW	IH	IW	IH	IW	IH	IH	IH	IH		
4	OC	OL	OC	IH	IH	OC	IH	IH	OC	IH	IH	IH	OC	IH	IH	OC	OL	IH	OC	OL	OC	IH	IH	OC	IH	IH	IH	IH	IH	
4	OC	OL	OC	IH	IH	OC	IH	IH	OC	IH	IH	IH	OC	IH	IH	OC	OL	IH	OC	OL	OC	IH	IH	OC	IH	IH	IH	IH	IH	
5	ON	OH	ON	IW	IH	OH	IH	IW	OH	ON	IH	IH	ON	IH	IH	ON	OH	IH	ON	IH	OH	IH	IW	IH						
5	IW	OH	IH	CW	ON	OH	IW	IH	ON	IH	IW	IH	ON	IH	IH	IW	IH	IH	IW	IH	IH	IW	IH	IH	IH	IH	IH	IH		
6	OC	IH	OC	IH	IH	OC	IH	IH	OC	IH	IH	IH	OC	IH	IH	OC	OL	IH	OC	OL	OC	IH	IH	OC	IH	IH	IH	IH	IH	
6	OC	IH	OC	IH	IH	OC	IH	IH	OC	IH	IH	IH	OC	IH	IH	OC	OL	IH	OC	OL	OC	IH	IH	OC	IH	IH	IH	IH	IH	
7	ON	IH	OH	IW	IW	OH	IW	IW	ON	IH	IW	IH	ON	IH	IH	ON	IH	IH	ON	IH	IW	IH								
7	ON	IH	OH	IW	IW	OH	IW	IW	ON	IH	IW	IH	ON	IH	IH	ON	IH	IH	ON	IH	IW	IH								
8	OC	OL	OC	IH	IH	OC	IH	IH	OC	IH	IH	IH	OC	IH	IH	OC	OL	IH	OC	OL	OC	IH	IH	OC	IH	IH	IH	IH	IH	
8	OC	OL	OC	IH	IH	OC	IH	IH	OC	IH	IH	IH	OC	IH	IH	OC	OL	IH	OC	OL	OC	IH	IH	OC	IH	IH	IH	IH	IH	
9	ON	IW			IH	OH	IW	CW	IH	IH	ON	IW	IH	IH	ON	IW	IH	IH	IW	IH										
9	ON	OH	ON	IW	IH	OH	IW	IH	ON	IH	IW	IH	ON	IH	IH	ON	IH	IH	IW	IH										
10	OC	IH							OC	IH	IH	IH	OC	IH	IH	OC	OL	IH	OC	OL	OC	IH	IH	OC	IH	IH	IH	IH	IH	IH
10	OC	OL	OC	IH	IH	OC	IH	IH	OC	IH	IH	IH	OC	IH	IH	OC	OL	IH	OC	OL	OC	IH	IH	OC	IH	IH	IH	IH	IH	
11	ON	OH	IH						ON	IH	IH	ON	OH	IH	IH	ON	IH	IH	ON	OH	IH									
11	ON	OH	ON	IW	OH	IW	IW	IH	ON	IW	IW	IH	ON	IW	IH	ON	IH	IH	ON	IW	IH									
12	OC	OL	OC	IH	IH	OC	IH	IH	OC	IH	IH	IH	OC	IH	IH	OC	OL	IH	OC	OL	OC	IH	IH	OC	IH	IH	IH	IH	IH	
12	OC	IH	OC	IH	IH	OC	IH	IH	OC	IH	IH	IH	OC	IH	IH	OC	OL	IH	OC	OL	OC	IH	IH	OC	IH	IH	IH	IH	IH	
13	ON	OH	ON	IH	IW	OH	IW	IW	ON	IH	IH	IH	ON	IH	IH	ON	IH	IH	ON	IH										
13	ON	OH	ON	IH	IW	OH	IW	IW	ON	IH	IH	IH	ON	IH	IH	ON	IH	IH	ON	IH										
14	OC	OL	OC	IH	IH	OC	IH	IH	OC	IH	IH	IH	OC	IH	IH	OC	OL	IH	OC	OL	OC	IH	IH	OC	IH	IH	IH	IH	IH	
14	OC	OL	OC	IH	IH	OC	IH	IH	OC	IH	IH	IH	OC	IH	IH	OC	OL	IH	OC	OL	OC	IH	IH	OC	IH	IH	IH	IH	IH	

Codes:

- 0 no radicle or coleoptile emergence
- 1 first instance of radicle emergence (**must be used and can only use once**)
- 2 radicle 1-5mm long
- 3 radicle 6-10mm
- 4 radicle 10-20mm
- 5 radicle >20mm
- 6 coleoptile emergence (**must be used and can only use once**)
- 7 coleoptile length 0-10mm
- 8 coleoptile length 10-20mm
- 9 coleoptile >20mm

Notes:

Species: ARTR

Was planted Sept 10 7-1230 but not put on table until next day

PI: Martyn

Temp range: 5-25oC

Project: SA Species

DayHr: 12

Planted: Sept 11 2025 @ 0800

Date 9/10/25
Name 7cm

SA Levels/Codes

Control = C
Water = W
0.5mM = L (low)
1.0mM = H (high)Start Time 822
End Time 950

1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	
1	OH	1L	OL	OH	OL	OH	OL	OL	1L	OL	1H	O	OL	OH	O	OL	OH	O	OL									
1	OL	O	V	OH	OL			7H	H	OL	O	OL	O	OL														
2	OW	OC	OW	OC	OC	OW	OC	OW	1L	2C	OC	OW	OC	OC	OC													
2	OW	OC	OW	OC	OC	OW	OC	OW	1L	OC	OW	OC	OC	OC	OC													
3	OH	O	2L	OH	OL	OH	OL	9L	1L	7L	1H	OL																
3	OL	2L		OH	OL			O	V	7L	OL																	
4	OW	OC	OW	OC	OW	OC	OW	OC	7L	OW	OC	1W	1L	1W	1L	1W	1L	1W										
4	6L	OW	OC	OW	OC	7L	OW	7L	1L	6L	OC	6L	OW	7L	OC	6L	OC	6L	OW	7L	OC	9L	7L	9L	7L	9L	7L	
5	OH	6L	2L		OL	1L		OL	1L	2L	0V	OL	7L	OL														
5	OH	9L	OL	OL	OL	OL	OL	O	L	OL	9L	OL	1L	8L	OL	1L	OL											
6	OW	2L	0V	OW	2L	OC	6L	2L	1L	OC	0V	7L	OC	1W	7L	OC	OC	OC	OC									
6	6L	OW	OC	OW	1L	OC	0V	OC	1V	7L	OC																	
7	OL	OL	OL	2L	OL	OL	OL	OL	OL	7L	1H	OL	7L	OL														
7	OH	OL	O	V	OH	OL	OL	OL	OL	OL	2L	OL																
8	OW	OC	1W	OW	OC	6L	OW	OC	OW	7L	2L	2W	7L															
8	OC	6L	OW	OC	OW	OC	OW	OC	OW	7L																		
9	OH	OL	6L	8L	OL	OL	OL	OL	6L	9L	14	OH	OL															
9	OH	OL	2L	OH	OL	OL	OL	OL	OL	18	OH	OL	1L	OT	7L	OL												
10	OW	1W	OC	OW	1L	OL	OL	6L	W	OL	OC	OL	OW	OC	OW	OC	9L	2W	OC									
10	OW	OC	OW	1L	OC	OL	OL	OW	OC	1W	W	OC	OW	OC	OW	OC	OW	OC	9L	OC								
11	OH	OL																										
11	OL	1L	OL	2L	4	OL	2L	OL																				
12	OW	OC	OW	OC	OW	OC	OW	OC	2L	OC	9L	OW	2L	OC	OC	OW	OC											
12	OW	OC	OW	OC	OW	OC	OW	OC	9L	2W	OC																	
13	OH	OL																										
13	OL																											
14	OW	OC	OL	2C	OW	OC	OC	OC	OC	OC	OC																	
14	OW	OC	2L	9L	OC	OW	OC	OW	OC	9L	2W	OC	9L	2W	OC	9L	2W	OC	9L									

Codes:

- 0 no radicle or coleoptile emergence
- 1 first instance of radicle emergence (**must be used and can only use once**)
- 2 radicle 1-5mm long
- 3 radicle 6-10mm
- 4 radicle 10-20mm
- 5 radicle >20mm
- 6 coleoptile emergence (**must be used and can only use once**)
- 7 coleoptile length 0-10mm
- 8 coleoptile length 10-20mm
- 9 coleoptile >20mm

Notes:

Species: ARTR

Was planted Sept 10 7-1230 but not put on table until next day

PI: Martyn

Temp range: 5-25oC

Project: SA Species

DayHr: 12

Planted: Sept 11 2025 @ 0800

Date 9/16/25

Start Time 9:15 am

Name MTH

End Time 10:24 am

SA Levels/Codes

Control = C

0.5mM =

L (low)

Water = W

1.0mM =

H (high)

	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	
1																													
1	OL	OC																											
2	OH	ON	OH																										
3	OL																												
3	OL																												
4	OH	OW	OH																										
4	OH	OW	OH																										
5	OL																												
5	OL																												
6	OH	OW	OH																										
6	OH	OW	OH																										
7	OL	OC	OL																										
7	OL	OC	OL																										
8	OH																												
8	OH																												
9	OL	OC	OL																										
9	OL	OC	OL																										
10	OH	ON	OH																										
10	OH	ON	OH																										
11	OL	OC	OL																										
11	OL	OC	OL																										
12	OH	ON	OH																										
12	OH	ON	OH																										
13	O-	OC	OL																										
13	O-	OC	OL																										
14	OH	ON	OH																										
14	OH	ON	OH																										

Codes:

- 0 no radicle or coleoptile emergence
- 1 first instance of radicle emergence (must be used and can only use once)
- 2 radicle 1-5mm long
- 3 radicle 6-10mm
- 4 radicle 10-20mm
- 5 radicle >20mm
- 6 coleoptile emergence (must be used and can only use once)
- 7 coleoptile length 0-10mm
- 8 coleoptile length 10-20mm
- 9 coleoptile >20mm

Notes:

Species: ARTR

Was planted Sept 10 7-1230 but not put on table until next day

Pl: Martyn

Temp range: 5-25oC

Project: SA Species

DayHr: 12

Planted: Sept 11 2025 @ 0800

Date 9/11/25
Name Tom

SA Levels/Codes

Control =	C	0.5mM =	L (low)
Water =	W	1.0mM =	H (high)

Start Time	<u>9:39</u>
End Time	<u>10:37</u>

1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14			
1																														
1	OC	OW	OC	OW	OC	OW	OC	OW	OC	OW	OC	OW	OC	OW	OC	OW	OC	OW	OC	OW	OC	OW	OC	OW	OC	OW				
2	OL	OH	OL	OH	DL	1H2H	OL	OH																						
3	OC	OW	OS	WW	OC	OW	OC	1H2H	OC	OW																				
3	OC	OW	OC	OW	OC	OW	OC	1H2H	OC	OW																				
4	OL	2L	OL	1H	OL	1H2H	OL	OH	OL	1L	OL	1H																		
4	OL	2L	OL	1H	OL	1H2H	OL	OH	OL	1H																				
5	OC	OW	OC	OW	OC	OW	OC	1W	OC	2H																				
5	OC	OW	OC	OW	OC	OW	OC	1W	OC	2H																				
6	2L	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
6	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
7	OC	OW	OC	OW	OC	OW	OC	1H2H																						
7	OC	OW	OC	OW	OC	OW	OC	1H2H																						
8	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH
8	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH
9																														
9	OL	OW	OC	OW	OC	OW	OC	1W	OC	OW	OC	1W	OC	OW	OC	OW	OC	OW	OC	OW										
10	OL	OH	OL	1H2H	OL	1H2H	OL	OH	OL	OH																				
10	OL	OH	OL	1H2H	OL	1H2H	OL	OH	OL	OH																				
11																														
11	OC	OW	OC	OW	OC	1H2H																								
12	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH
12	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH
13																														
13	OC	OW	OC	OW	OC	OW	OC	1W	OC	1H2H																				
14	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH

Codes:

NIGHT →

- 0 no radicle or coleoptile emergence
- 1 first instance of radicle emergence (**must be used and can only use once**)
- 2 radicle 1-5mm long
- 3 radicle 6-10mm
- 4 radicle 10-20mm
- 5 radicle >20mm
- 6 coleoptile emergence (**must be used and can only use once**)
- 7 coleoptile length 0-10mm
- 8 coleoptile length 10-20mm
- 9 coleoptile >20mm

Notes:

Species: ARTR

Was planted Sept 10 7-1230 but not put on table until next day

PI: Martyn

Temp range: 5-25oC

Project: SA Species

DayHr: 12

Planted: Sept 11 2025 @ 0800

Date 9/10/23
Name ZEM

SA Levels/Codes

Control =	C	0.5mM =	L (low)
Water =	W	1.0mM =	H (high)

Start Time	<u>8:21</u>
End Time	<u>9:08</u>

1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14
1																											
1																											
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14																											

Codes:

- 0 no radicle or coleoptile emergence
- 1 first instance of radicle emergence (must be used and can only use once)
- 2 radicle 1-5mm long
- 3 radicle 6-10mm
- 4 radicle 10-20mm
- 5 radicle >20mm
- 6 coleoptile emergence (must be used and can only use once)
- 7 coleoptile length 0-10mm
- 8 coleoptile length 10-20mm
- 9 coleoptile >20mm

Notes:

Species: ARTR

Temp range: 5-25oC

DayHr: 12

Was planted Sept 10 7-1230 but not put on table until next day

PI: Martyn

Project: SA Species

Planted: Sept 11 2025 @ 0800

Date 2/13/25
Name TBM

SA Levels/Codes

Control = C 0.5mM = L (low)
Water = W 1.0mM = H (high)Start Time 8:36
End Time - 9:23

	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14
1	OH	OL	OL	OL	OH	OL																						
1																												
2	OW	OC	OC																									
2																												
3	OH	OL	OL	OL	OH	OL																						
3																												
4	OW	OC	OC																									
4																												
5	OH	OL	OL	OL	OH	OL																						
5																												
6	OW	OC	OC																									
6																												
7	OH	OL	OL	OL	OH	OL																						
7																												
8	OW	OC	OC																									
8																												
9	OH	OL	OL	OL	OH	OL																						
9																												
10	OW	OC	OC																									
10																												
11	OH	OL	OL	OL	OH	OL																						
11																												
12	OW	OC	OC																									
12																												
13	OH	OL	OL	OL	OH	OL																						
13																												
14	OW	OC	OC																									
14																												

Codes:

- 0 no radicle or coleoptile emergence
- 1 first instance of radicle emergence (**must be used and can only use once**)
- 2 radicle 1-5mm long
- 3 radicle 6-10mm
- 4 radicle 10-20mm
- 5 radicle >20mm
- 6 coleoptile emergence (**must be used and can only use once**)
- 7 coleoptile length 0-10mm
- 8 coleoptile length 10-20mm
- 9 coleoptile >20mm

Notes:

Species: ARTR

Was planted Sept 10 7-1230 but not put on table until next day

PI: Martyn

Temp range: 5-25oC

Project: SA Species

DayHr: 12

Planted: Sept 11 2025 @ 0800

Date 9/12/25

8:50 am

Name MTT

Start Time

9:35 am

SA Levels/Codes

C

0.5mM =

L (low)

Control =

W

1.0mM =

H (high)

	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14						
1	OL	OC	OL	OC	OL	OC	A	OL	OL	OC																								
2	OH	OW	OH	ON	OH	CW	OA	OW	OH	OW	OH	ON	OH	OW	CW	OH	OW	OH	OW	OH	OW													
3	OL	OC																																
4	OH	ON																																
5	OL	OC	IC	OC																														
6	OH	CW																																
7	OL	OC																																
8	OH	ON																																
9	OL	OC																																
10	OH	CH	OH	OW																														
11	OL	OC																																
12	OH	ON																																
13	OL	OC																																
14	OH	OW	OH	ON																														

Codes:

- 0 no radicle or coleoptile emergence
- 1 first instance of radicle emergence (**must be used and can only use once**)
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Notes: