

Species: ACM1  
Temp range: 5-25oC  
DayHr: 12

PI: Martyn

Project: SA Species

Planted: Aug 7 2025 @ 1600

Date 8/20/25  
Name M60

SA Levels/Codes  
Control = C 0.5mM = L (low)  
Water = W 1.0mM = H (high)

Start Time 13:50pm  
End Time 17:00pm

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	8	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
1	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
2	8	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C
2	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H
3	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
3	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
4	H	H	C	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H
4	O	H	C	H	C	H	C	O	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H
5	H	C	O	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
5	W	C	L	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
6	OH	C	C	H	C	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H
6	H	C	C	H	C	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H
7	ON	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
7	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
8	C	C	H	C	C	H	C	C	H	C	C	H	C	C	H	C	C	H	C	C	H	C	C	H	C	C	H
8	H	C	C	H	C	C	H	C	C	H	C	C	H	C	C	H	C	C	H	C	C	H	C	C	H	C	H
9	W	C	L	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
9	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
10	H	C	C	H	C	C	H	O	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C
10	H	O	C	H	H	C	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C
11	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
11	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
12	O	C	C	C	H	O	C	O	C	H	O	C	H	O	C	H	O	C	H	O	C	H	O	C	H	O	C
12	H	O	C	O	H	O	C	H	O	C	H	O	C	H	O	C	H	O	C	H	O	C	H	O	C	H	O
13	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
13	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
14	O	C	C	O	H	O	C	O	C	H	O	C	H	O	C	H	O	C	H	O	C	H	O	C	H	O	C
14	H	C	C	H	H	H	H	O	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C

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: ACM1  
Temp range: 5-25oC  
Day/Hr: 12

# Scan (8/12)

PI: Martyn  
Project: SA Species  
Planted: Aug 1 2025 @ 1600

Date 8/19/25  
Name MTS

## SA Levels/Codes

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

Start Time 12:30 pm  
End Time 11:10 pm

	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	7L	7C	7L	2L	OC	5C	7SL*	7SL	OC	5C	7L	7L	7SL*	7SL	7C	7C	7L	7C	7L	7C	7L	7C	7L	7C	7C	7C	7C	
1	4L	4C	4L	3L	3C	3L	3L	3L	3C	3C	7L	7L	7L*	7L	7C	7C	7L	7C	7C	7L	7C	7L	7C	7C	7C	7C	7C	
2	7HW	7H	7W	7W	7H	7H	7W	7W	7H	7H	7W	7W	7H*	7H	7W	7W	7H	7H	7W	7H	7W	7H	7W	7H	7H	7H	7H	7H
2	7SW	7H	7W	7W	7H	7H	7W	7W	7H	7H	7W	7W	7W	7H	7H	7W	7W	7H	7H	7W	7H	7W	7H	7H	7H	7H	7H	7H
3	7L	7L	7C	7C	7L	7C	7C	7C	7L	7L	7C	7C	7L*	7L	7C	7C	7L	7L	7C	7C	7L	7C	7L	7C	7C	7C	7C	7C
3	7L	7L	7C	7C	7L	7C	7C	7C	7L	7L	7C	7C	7L*	7L	7C	7C	7L	7L	7C	7C	7L	7C	7L	7C	7C	7C	7C	7C
4	7W	2W	7H	7H	7W	7W	7H	7H	7W	7W	7H	7H	7W*	7W	7H	7H	7W	7W	7H	7H	7W	7H	7W	7H	7H	7H	7H	7H
4	7W	7W	7W	7W	7H	7H	7W	7W	7H	7H	7W	7W	7H*	7H	7W	7W	7H	7H	7W	7H	7W	7H	7W	7H	7H	7H	7H	7H
5	7L	7L	7C	7C	7L	7C	7C	7C	7L	7L	7C	7C	7L*	7L	7C	7C	7L	7L	7C	7C	7L	7C	7L	7C	7C	7C	7C	7C
5	7L	7C	7L	7L	7C	7C	7C	7C	7L	7L	7C	7C	7L*	7L	7C	7C	7L	7L	7C	7C	7L	7C	7L	7C	7C	7C	7C	7C
6	7W	7W	7H	7H	7W	7W	7H	7H	7W	7W	7H	7H	7W*	7W	7H	7H	7W	7W	7H	7H	7W	7H	7W	7H	7H	7H	7H	7H
6	7W	7W	7H	7H	7W	7W	7H	7H	7W	7W	7H	7H	7W*	7W	7H	7H	7W	7W	7H	7H	7W	7H	7W	7H	7H	7H	7H	7H
7	7L	7L	7C	7C	7L	7C	7C	7C	7L	7L	7C	7C	7L*	7L	7C	7C	7L	7L	7C	7C	7L	7C	7L	7C	7C	7C	7C	7C
7	7L	7C	7L	7L	7C	7C	7C	7C	7L	7L	7C	7C	7L*	7L	7C	7C	7L	7L	7C	7C	7L	7C	7L	7C	7C	7C	7C	7C
8	7W	7W	7H	7H	7W	7W	7H	7H	7W	7W	7H	7H	7W*	7W	7H	7H	7W	7W	7H	7H	7W	7H	7W	7H	7H	7H	7H	7H
8	7W	7W	7H	7H	7W	7W	7H	7H	7W	7W	7H	7H	7W*	7W	7H	7H	7W	7W	7H	7H	7W	7H	7W	7H	7H	7H	7H	7H
9	7L	7L	7C	7C	7L	7C	7C	7C	7L	7L	7C	7C	7L*	7L	7C	7C	7L	7L	7C	7C	7L	7C	7L	7C	7C	7C	7C	7C
9	7L	7L	7C	7C	7L	7C	7C	7C	7L	7L	7C	7C	7L*	7L	7C	7C	7L	7L	7C	7C	7L	7C	7L	7C	7C	7C	7C	7C
10	7W	7W	7H	7H	7W	7W	7H	7H	7W	7W	7H	7H	7W*	7W	7H	7H	7W	7W	7H	7H	7W	7H	7W	7H	7H	7H	7H	7H
10	7W	7W	7H	7H	7W	7W	7H	7H	7W	7W	7H	7H	7W*	7W	7H	7H	7W	7W	7H	7H	7W	7H	7W	7H	7H	7H	7H	7H
11	7L	7L	7C	7C	7L	7C	7C	7C	7L	7L	7C	7C	7L*	7L	7C	7C	7L	7L	7C	7C	7L	7C	7L	7C	7C	7C	7C	7C
11	7L	7C	7L	7L	7C	7C	7C	7C	7L	7L	7C	7C	7L*	7L	7C	7C	7L	7L	7C	7C	7L	7C	7L	7C	7C	7C	7C	7C
12	7W	7W	7H	7H	7W	7W	7H	7H	7W	7W	7H	7H	7W*	7W	7H	7H	7W	7W	7H	7H	7W	7H	7W	7H	7H	7H	7H	7H
12	7W	7W	7H	7H	7W	7W	7H	7H	7W	7W	7H	7H	7W*	7W	7H	7H	7W	7W	7H	7H	7W	7H	7W	7H	7H	7H	7H	7H
13	OL	OC	OL	OC	OL	OC	OC	OC	OL	OL	OC	OC	OL*	OL	OC	OC	OL	OL	OC	OC	OL	OC	OL	OC	OC	OC	OC	OC
13	OL	OC	OL	OL	OL	OC	OL	OL	OL	OL	OC	OC	OL*	OL	OC	OC	OL	OL	OC	OC	OL	OC	OL	OC	OC	OC	OC	OC
14	7W	7H	73W	7H	7W	7H	7W	7H	7W	7H	7W	7H	7W*	7W	7H	7H	7W	7W	7H	7H	7W	7H	7W	7H	7H	7H	7H	7H
14	7W	7H	73W	7H	7W	7H	7W	7H	7W	7H	7W	7H	7W*	7W	7H	7H	7W	7W	7H	7H	7W	7H	7W	7H	7H	7H	7H	7H

## 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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- 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:

double check tracks

Date 8/18/25  
Name MTT

## SA Levels/Codes

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

Start Time 14:13 pm  
End Time 17:00pm

	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	7	C	7	H	OC	SC	7	SH	7	C	7	H	7	SC	*	7	SH	7	C	*	7	SC	7	H	7	C	7	H				
1	7	C	7	H	7	OC	7	H	7	C	7	H	7	SC	*	7	SH	7	SC	*	7	7	*	7	3	4	7	4	H			
2	7	4	L	7		7	L	7	Q	7	W	7	L*	7	W	*	7	L	7	W	*	7	7	7	7	7	7	7	7	W	W	
2	7	L	7	4	7	N	7	L	7	W	7	W	7	L*	7	W	7	W	7	L*	7	W	7	L	7	7	7	7	7	W	W	
3	7	C	7	H	7	CC	7	H	7	C	7	COH	7	*	7	C	7	SH	7	*	7	7	7	7	7	7	7	7	7	7	7	7
3	7	4	C	7	H	OC	7	H	7	SC	7	CH	7	*	7	C	7	SH	7	*	7	7	7	7	7	7	7	7	7	7	7	7
4	7	L	7	W	7	W	7	L	7	W	7	W	7	L*	7	W	7	W	7	L*	7	W	7	L	7	7	7	7	7	7	7	
4	7	L	7	W	7	W	7	L	7	O	7	W	7	L*	7	W	7	W	7	L*	7	W	7	L	7	7	7	7	7	7	7	
5	7	C	7	H	7	CH	7	C	7	C	7	H	7	C	7	C	7	OC	7	H	7	C	7	SC	7	7	7	7	7	7	7	7
5	7	C	7	H	7	CC	7	H	7	C	7	H	7	C	7	C	7	SC	7	H	7	C	7	SC	7	7	7	7	7	7	7	7
6	7	4	L	7	W	7	W	7	L	7	ON	7	W	7	L	7	W	7	L*	7	W	7	L	7	7	7	7	7	7	7	7	
6	7	4	L	7	W	7	W	7	L	7	O	7	W	7	L	7	W	7	L*	7	W	7	L	7	7	7	7	7	7	7		
7	7	4	C	7	H	7	CC	7	4	H	7	C	7	SH	7	C	7	HC	7	SH	7	C	7	SC	7	7	7	7	7	7	7	
7	7	4	C	7	H	7	C	7	H	7	CC	7	4	7	C	7	CC	7	5	7	7	7	7	7	7	7	7	7	7	7		
8	7	L	7	ON	7	W	7	L	7	W	7	W	7	L	7	W	7	W	7	L*	7	W	7	L	7	7	7	7	7	7	7	
8	7	O	L	7	W	7	W	7	L	7	W	7	L	7	W	7	L	7	W	7	L*	7	W	7	L	7	7	7	7	7	7	
9	7	C	7	C	7	H	7	C	7	OC	7	H	7	OC	7	H	7	OC	7	H	7	C	7	SC	7	7	7	7	7	7	7	
9	7	O	3	H	7	C	7	H	7	IH	7	C	7	C	7	C	7	O	7	H	7	C	7	OC	7	7	7	7	7	7	7	
10	7	3	L	7	W	7	W	7	3	L	7	W	7	3	L	7	W	7	3	L	7	W	7	3	L	7	7	7	7	7	7	
10	7	L	7	W	7	W	7	L	7	O	7	W	7	L	7	O	7	W	7	L	7	O	7	7	7	7	7	7	7	7	7	
11	7	C	7	OC	7	OH	7	2H	7	O	7	IH	7	OC	7	3C	7	OC	7	3H	7	C	7	SC	7	7	7	7	7	7		
11	7	O	7	OH	7	C	7	O	7	OC	7	W	7	C	7	CC	7	4H	7	C	7	4H	7	C	7	SC	7	7	7	7	7	7
12	7	3	L	7	C	7	L	7	2W	7	L	7	O	7	W	7	L	7	O	7	W	7	L	7	3	7	7	7	7	7	7	
12	7	O	7	W	7	W	7	L	7	O	7	W	7	L	7	O	7	W	7	L	7	O	7	7	7	7	7	7	7	7	7	
13	7	O																														
13	7	2C	7	OH	7	OC	7	2H	7	C	7	BC	7	3H	7	C	7	4H	7	C	7	4H	7	C	7	SC	7	7	7	7	7	7
14	7	O	7	ON	7	OL	7	2W	7	O	7	ON	7	2W	7	OL	7	2L	7	4N	7	OL	7	4L	7	4W	7	7	7	7	7	7
14	7	O	7	ON	7	OL	7	3L	7	AN	7	2W	7	OL	7	2L	7	AN	7	2L	7	CL	7	3W	7	7	7	7	7	7		

## 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: ACMI  
Temp range: 5-25oC  
DayHr: 12

Pl: Martyn  
Project: SA Species  
Planted: Aug 7 2025 @ 1600

Date 8/17/24  
Name TEM

SA Levels/Codes

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

Start Time 1402  
End Time 1622

	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	7/4H	7/4W	7/4H	6/3H	7/4W	7/5*	7/4H																					
1	7/4H	7/4H	7/4H	7/4H	7/4W	7/4*	7/4H																					
2	7/4C	7/4L	OC	7/4L																								
2	7/4	7/3	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4
3	7/3H	7/4H	7/4L	2W	7/4H	7/3H	7/4W	7/5*	0H	7/4H	7/4W	7/5*	0W	7/4H														
3	O	7/4	0W	6/3H	7/4H	0W	7/4W	0H	7/4H																			
4	7/4C	7/4L	7/5	OC	7/4L	7/4C																						
4	7/4C	7/4C	7/5	OC	7/4L	7/3L	OL	7/5C	7/3L	OL	7/5C	7/5*	7/5L	OL	7/5C	7/5L												
5	7/6H	7/4H	7/4W	7/4H	7/4H	0W	7/5W	7/4H	7/4H	0W	7/4H																	
5	7/4H	7/4H	7/4W	7/4H	7/4H	7/4W	7/4H																					
6	7/6C	7/3C	7/1	7/6C	7/3C	2L	7/6C	7/4C	7/2	7/4L	7/5C																	
6	7/5C	7/4C	7/5	7/5C	7/4C	7/3C																						
7	7/4H	0W	7/3H	7/4H	7/4H	7/4W	7/4H																					
7	7/3	0W	7/3H	1H	7/3H	2W	7/3H	X	7/3H	7/3H																		
8	7/1C	7/1H																										
8	7/4	7/3	0L	7/4L	7/4C	7/3L	2L	7/4C	7/4C	7/4L																		
9	7/4H	7/4H	7/4W	7/4H																								
9	7/3	7/3H	1W	7/2	7/3H	0H	2W	1W	7/4H	7/4W	7/4H																	
10	6/2C	7/2C	7/2L																									
10	OC	2L	7/3	7/4C	0L	7/4	6/3C	7/3	7/4C																			
11	0H	6/2	0W	6/2	0H	2W	6/2	0W	0H	0H	0W	2W	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3
11	0H	6/2	0W	6/2	0X	0W	2H	6/2	0W	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	
12	6/2C	2L	0L	OC	7/3L	0L	OC	6/2	0L	6/2C	7/3L																	
12	OC	0V			0L	0L	OC	7/4C	0L	6/2L	7/3L																	
13	0H	0W	0H	6/2W	0H	6/2	0W	2W	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3
13	0H	0W	2H	0H	0W	6/2W	7/3	0H	0W	9/3	0H	7/4W																
14	OC	0L	0V	OC	0V	0C	6/2C	0L	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3	7/3
14	7/2C	0C	0L	OC	0V	7/2	0L	2V	7/4	6/2C	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4

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

\* = further levels  
X = dead.

Species: ACM1

Temp range: 5-25°C

DayHr: 12

Date 8/16/25  
Name TEM

Pl: Martyn

Project: SA Species

Planted: Aug 7 2025 @ 1600

Start Time 11:33 - 12:11 (2m)  
End Time 13:37 - 13:05 rest

## SA Levels/Codes

Control = C

Water = W

0.5mM = L (low)

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																											
2																											
2																											
3																											
3																											
4																											
4																											
5																											
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14																											
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 &gt;20mm

6 coleoptile emergence (**must be used and can only use once**)

7 coleoptile length 0-10mm

8 coleoptile length 10-20mm

9 coleoptile &gt;20mm

X = dead

\* - first true leaves  
first seen

Notes:

7/4c 7/4c  
7/4c 7/4c

Species: ACM1

PI: Martyn

Temp range: 5-25°C

Project: SA Species

DayHr: 12

Planted: Aug 7 2025 @ 1600

Date 8/15/25  
Name TEM

## SA Levels/Codes

Control = C

0.5mM =

L (low)

Water = W

1.0mM =

H (high)

Start Time 1452  
End Time 1719

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																											
2																											
2																											
3																											
3																											
4																											
4																											
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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

\* → 1st true

leaves first

X=dead seed

Notes:

Species: ACM1

PI: Martyn

Temp range: 5-25°C

Project: SA Species

DayHr: 12

Planted: Aug 7 2025 @ 1600

Date 8/4/25

Start Time 11:00am

Name MH

End Time 13:15pm

## 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	LC	LC	7	H	OC	OC	7	H	LC	LC	7	H	LC	LC	7	H	7	3	C	7	H	LC	LC	7	3	C	7	H					
1	LC	LC	7	H	LC	LC	7	H	LC	LC	7	H	LC	LC	7	H	7	3	C	7	H	LC	LC	7	3	C	7	H					
2	7	L	7	W	7	W	7	W	OL	AW	7	W	7	L	7	W	7	L	7	W	7	W	7	W	7	W	7	W	7	W			
2	7	L	7	W	7	W	7	W	OL	AW	7	W	7	L	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W			
3	7	C	7	H	7	H	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	
3	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	
4	7	3	L	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W		
4	7	3	L	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W		
5	7	C	7	2	H	OH	7	C	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	
5	7	C	7	2	H	7	H	7	C	7	H	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H
6	7	C	7	W	7	W	7	W	OL	LOW	7	W	7	L	7	W	7	L	7	W	7	W	7	W	7	W	7	W	7	W	7	W	
6	7	C	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	
7	7	C	7	W	7	W	7	W	7	C	7	W	7	C	7	W	7	C	7	W	7	C	7	W	7	C	7	W	7	C	7	W	
7	7	C	7	W	7	W	7	W	7	C	7	W	7	C	7	W	7	C	7	W	7	C	7	W	7	C	7	W	7	C	7	W	
8	7	3	L	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W		
8	7	3	L	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W	7	W		
9	7	C	7	2	H	OC	7	C	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	
9	7	C	7	2	H	OC	7	C	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	
10	7	C	7	2	H	2W	7	C	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	
10	7	C	7	2	H	2W	7	C	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	
11	7	C	7	2	H	2H	7	C	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	
11	7	C	7	2	H	2H	7	C	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	
12	7	C	7	2	H	2W	7	C	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	
12	7	C	7	2	H	2W	7	C	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	
13	7	C	7	2	H	2H	7	C	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	
13	7	C	7	2	H	2H	7	C	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	
14	7	C	7	2	H	2W	7	C	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	
14	7	C	7	2	H	2W	7	C	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	7	C	7	H	

## Codes:

0 no radicle or coleoptile emergence

6 coleoptile emergence (must be used and can only use once)

1 first instance of radicle emergence (must be used and can only use once)

7 coleoptile length 0-10mm

2 radicle 1-5mm long

8 coleoptile length 10-20mm

3 radicle 6-10mm

9 coleoptile &gt;20mm

4 radicle 10-20mm

## Notes:

Species: ACMI

PI: Martyn

Temp range: 5-25°C

Project: SA Species

DayHr: 12

Planted: Aug 1 2025 @ 1600

Date 8/13/25

Start Time 1235

Name TEM

End Time 1459

## 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	7/4	7/4	2W	6/2	H	14	6/2	W	7/4	7/4	7/4	7/4	7/4	2H	7/4	W	7/4	H	7/4	W	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4				
1	14	B	13	7/3	7/3	H	10	7/3	6/8	7/4	7/4	7/4	7/3	7/4	7/4	7/4	0W	7/4	W	2W	1W	7/4	W	7/4	7/3	7/4	W	7/4	W			
2	7/4	7/4	b2	7/2	O	C	7/4	7/4	0L	9/2	7/4	7/4	7/4	7/4	C	7/4	6/2	7/4	4C	9/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4			
2	13	9/3	2L	13	9/3	9/2	7/2	0L	6/3	4	DL	4	7/4	4	7/4	7/4	7/3	7/4	DL	4	14	7/4	7/4	7/4	7/4	7/4	7/4	8/4	L			
3	6/2	H	7/4	2W	7/4	2H	7/4	W	0H	7/4	W	7/4	7/4	H	1W	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4			
3	0	4	7/4	0W	0H	7/4	0W	7/4	0H	7/4	W	7/4	7/4	H	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4			
4	7/4	2C	7/2	7/3	7/4	0C	7/4	6/2	7/3	C	7/4	2L	9/4	0C	7/4	6/2	7/4	C	7/3	7/4	7/2	0C	OL	7/4	7/4	7/4	OL	2L	7/4			
4	2C	7/3	2L	2L	0C	7/3	2L	0L	7/4	C	7/2	0L	7/5	7/4	7/4	7/4	7/4	7/4	7/4	0L	7/3	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4			
5	2H	0H	6/2	7/3	W	0W	7/4	W	7/4	H	0W	9/2	0H	7/3	H	9/2	7/4	W	7/4	7/4	0W	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4			
5	2H	6/2	7/3	W	2W	9/3	0H	7/4	W	6/2	H	7/4	V	7/4	7/4	W	7/4	0H	7/4	7/4	0H	14	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4		
6	6/2	2C	b/1	9/2	2C	DL	7/3	H	7/4	C	6/2	7/4	7/4	7/4	C	7/4	6/2	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	
6	6/2	C	b/2	9/2	7/3	V	7/3	V	7/4	C	7/4	1L	9/4	14	7/4	C	2L	7/4	7/4	2C	1L	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	2L		
7	6/2	2H	0W	6/2	7/3	H	7/2	W	7/4	7/4	7/4	7/4	1W	2H	7/4	7/4	W	7/4	H	0W	7/3	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4			
7	6/2	2H	0W	2W	0H	1H	0W	2W	1H	2H	2W	16/2	W	14	b/2	W	2W	2	H	0W	7/2	7/4	7/4	7/4	7/4	7/4	7/4	7/4	0W			
8	6/2	C	b/2	7/2	0C	7/2	2L	7/4	C	0L	7/1	7/3	7/4	C	DL	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	
8	6/2	DL	b/2	9/2	13	%2C	2L	0L	7/3	DC	2L	5	7/4	2C	7/4	L	7/3	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4
9	2H	2W	0W	2H	0H	2W	0	1H	0W	6/2	W	2H	7/3	H	0W	7/4	W	7/4	7/4	0W	7/3	7/4	7/4	7/4	7/4	7/4	7/4	7/4	0W			
9	2H	0W	2W	2H	0H	0	W	0	2H	0W	7/3	W	9/2	H	0H	2W	7/3	W	0H	7/4	0W	7/4	2H	7/3	W	0W	7/4	7/4	7/4			
10	OC	1C	b/2	2L	OC	7/2	6/2	2L	6/2	G	6/2	6/2	7/2	C	0L	7/3	7/4	7/4	7/4	0L	OC	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4		
10	OC	2V	2C	2L	2C	0V	2L	0L	OC	7/4	0L	9/2	4C	0C	6/2	2L	1L	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4
11	6/4	1H	0W	2H	0H	2	W	0	1T	0W	6/2	W	2H	7/3	H	0W	7/4	W	7/4	7/4	0W	7/3	7/4	7/4	7/4	7/4	7/4	7/4	7/4	0W		
11	0H	0W	1W	0T	0	W	0	2H	0W	6/2	W	2	H	7/2	W	6/2	W	2	H	7/2	W	6/2	W	2	H	7/3	W	6/2	W			
12	1C	OC	7/2	6/2	OC	2L	0C	2L	0C	6/2	C	2L	7/4	6/2	7/4	6/2	7/4	C	6/2	7/3	7/4	7/4	7/4	7/4	7/4	7/4	7/4	7/4				
12	OC	0V	0C	0	V	0C	2C	0	L	2C	0C	9/2	3	2	7/4	C	7/4	0L	DC	7/2	7/2	7/2	7/2	7/2	7/2	7/2	7/2	7/2				
13																																
13																																
14																																
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 &gt;20mm

6 coleoptile emergence (must be used and can only use once)

7 coleoptile length 0-10mm

8 coleoptile length 10-20mm

9 coleoptile &gt;20mm

## Notes:

Species: ACMI

Pl: Martyn

Temp range: 5-25oC

Project: SA Species

DayHr: 12

Planted: Aug 6 2025 @ 1600

Date 8/12/25

Start Time 13:30 pm

Name MH

End Time 16:30 pm

## SA Levels/Codes

C

0.5mM =

L (low)

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	2W	IW	2L	1/2L	2W	1/2W	2L	1/2L	2W	IW	2L	1/2L	7/3W	2L	2L	2W	2L	2L	7/3W	2L	2L	2W	2L	2W	2L	2L	2L				
1	2W	2W	1L	1L	2W	1/2W	2L	1/2L	2W	2W	1L	1L	2W	2W	2L	2L	1W	1W	1L	1L	2W	2L	2L	2W	2L	2L	2L	2L			
2	2H	2H	2C	2C	1H	1H	OC	OC	2H	2C	2C	2H	2H	2C	2C	2H	2H	2C	2C	2H	2H	2C	2C	2H	2C	2C	2H	2C			
2	2H	2H	2C	2C	2H	2H	2C	2C	2H	2H	2C	2C	2H	2H	2C	2C	2H	2H	2C	2C	2H	2H	2C	2C	2H	2C	2C	2H			
3	2W	2W	1L	1L	2W	1/2W	2L	1/2L	2W	2W	1L	1L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2L			
3	2W	2W	1L	1L	2W	1/2W	2L	1/2L	2W	2W	1L	1L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2L			
4	1H	2H	2C	2C	2H	1H	1H	OC	2C	2C	2H	2C	2H	2C	2C	2H	2H	2C	2C	2H	2H	2C	2C	2H	2C	2C	2H	2C			
4	OH	OH	2C	2C	OH	2H	2C	2C	OH	2H	2C	2C	OH	2H	2C	2C	OH	2H	2C	2C	OH	2H	2C	2C	OH	2H	2C	2C			
5	2W	2W	O	O	ON	2W	OL	2L	2W	2L	2W	2L	2W	2L	2L	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2L		
5	2W	2W	2L	2L	2W	2L	2W	2L	2W	2L	2W	2L	2W	2L	2L	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2L		
6	1H	OH	2C	1C	2H	2H	2C	2C	2H	2H	2C	2C	2H	2H	2C	2C	2H	2H	2C	2C	2H	2H	2C	2C	2H	2C	2C	2H	2C		
6	2H	2H	2C	2C	2H	2H	2C	2C	2H	2H	2C	2C	2H	2H	2C	2C	2H	2H	2C	2C	2H	2H	2C	2C	2H	2C	2C	2H	2C		
7	2W	2W	1L	2L	2W	1/2W	2L	2L	2W	2L	2W	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2L	2L		
7	2W	2W	1L	2L	2W	1/2W	2L	2L	2W	2L	2W	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2L	2L		
8	O	H	O	C	2H	2H	2C	2C	2H	2H	2C	2C	2H	2H	2C	2C	2H	2H	2C	2C	2H	2H	2C	2C	2H	2C	2C	2H	2C		
8	2H	2H	O	C	OH	2H	2C	2C	OH	2H	2C	2C	OH	2H	2C	2C	OH	2H	2C	2C	OH	2H	2C	2C	OH	2H	2C	2C	OH	2H	
9	2W	ON	2L	1L	2W	2L	1L	2W	2W	2L	2L	2W	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2L		
9	ON	W	1L	2L	2W	2W	1L	2W	2L	2W	2L	2W	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2L		
10	IH	IH	O	C	IH	OH	OC	2C	IH	OH	OC	2C	IH	OH	OC	2C	IH	2H	2C	2C	IH	2H	2C	2C	IH	2H	2C	2C	IH	2H	
10	IH	2H	O	C	2H	OH	2C	1C	2H	2H	OC	2C	2H	OH	OC	2C	OH	2H	3C	2C	2H	2H	2C	2C	2H	2H	2C	2C	2H	2C	
11			2L	2L			2L	2L	ON	ON	2L	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2L	2L	2L	
11	ON	ON	O	L	ON	O	L	ON	W	OL	OL	OL	2W	2W	2L	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2L	2L	2L
12	OH	OC	IH	OH	O	C	OH	OH	OC	OC	IH	2H	OC	2C	2H	2C	2H	2C	2C	2H	2C	2C	2H	2C	2C	2H	2C	2C	2H	2C	
12	OH	OC	O	H	OH	O	C	OH	1H	OC	2C	2H	2H	1C	OC	2H	2H	2C	2C	1H	2H	2C	2C	1H	2H	2C	2C	1H	2H	2C	
13	ON	O	L	W	ON	O	L	ON	O	L	W	CL	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2L	2L	2L
13	ON	O	L	W	CL	1L	ON	2W	CL	1L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2W	2L	2L	2L	2L	2L
14	OH	OC	OH	OC	OH	O	C	C	2H	2H	AC	1C	2H	2H	2C	2C	2H	2H	2C	2C	2H	2H	2C	2C	2H	2H	2C	2C	2H	2C	
14	OH	OC	OH	OC	OH	O	C	C	2H	OH	OC	2C	2H	2H	2C	2C	2H	2H	2C	2C	2H	2H	2C	2C	2H	2H	2C	2C	2H	2C	

check (8/13)

## 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:

Date 8/11/25

Start Time 14:45 pm

Name MH

End Time 18:28 pm

## 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	2L	2L	1/2C	1/2C	1/2L	1/2L	OC	1/2C	2L	1/2L	1C	1/2C	1/2L	2L	1/2C	1/2C	1/2L	1/2C	1/2C	1/2L	1/2C	1/2L	1/2C	1/2C	1/2L	1/2C	1/2C	1/2L		
1	0C	2L	2C	1/2C	2L	1/2L	1/2C	1/2C	0C	1/2L	1C	1/2C	1/2L	1/2C	1/2L	1/2C	1/2C	1/2C	1/2L	1/2C	1/2C	1/2L								
2	2W	W	2H	1/2H	2W	1/2W	OH	OH	W	1/2W	1/2H																			
2	3W	1/2W	2H	1/2H	2W	1/2W	1/2H	1/2W	1/2W	1/2H																				
3	2L	2L	1/2C	1/2C	2L	1/2L	1/2C	1/2C	OC	1/2L	1/2C	1/2C	1/2L																	
3	1L	1L	1C	1/2C	2L	1/2L	1/2C	1/2C	OC	1/2L	1/2C	1/2C	1/2L																	
4	2W	2W	OH	2H	1/2W	1/2W	2H	1/2H	2W	1/2W	1/2H																			
4	3W	1/2W	OH	1/2H	2W	1/2W	1/2H	1/2W	1/2W	1/2H																				
5	1L	1L	1/2C	1/2C	OC	1/2L	1/2C	1/2C	CC	2L	1/2L	1/2C	1/2C	1/2L																
5	1L	1L	1/2C	1/2C	2L	1/2L	1/2C	1/2C	OC	1/2L	1/2C	1/2C	1/2L																	
6	1W	1W	1H	1/2H	1/2W	1/2W	2H	1/2H	1/2W	1/2W	1/2H																			
6	2W	2W	1H	2H	1/2W	1/2W	1/2H	1/2H	1/2W	1/2W	1/2H																			
7	1L	1L	1/2L	1/2L	1/2C	1/2C	1/2C	1/2C	1/2L	1/2C	1/2C	1/2C	1/2L																	
7	1L	1L	1/2L	1/2L	1/2C	1/2C	1/2C	1/2C	1/2L	1/2C	1/2C	1/2C	1/2L																	
8	1W	1W	1H	1/2H	1/2W	1/2W	1/2H	1/2H	1/2W	1/2W	1/2H																			
8	2W	2W	1H	2H	1/2W	1/2W	1/2H	1/2H	1/2W	1/2W	1/2H																			
9	1L	1L	1/2L	1/2L	1/2C	1/2C	1/2C	1/2C	1/2L	1/2C	1/2C	1/2C	1/2L																	
9	1L	1L	1C	1/2C	1/2C	1/2C	1/2C	1/2L	1/2C	1/2C	1/2C	1/2L																		
10	1W	1W	1H	1/2H	1/2W	1/2W	1/2H	1/2H	1/2W	1/2W	1/2H																			
10	2W	2W	1H	1/2H	1/2W	1/2W	1/2H	1/2H	1/2W	1/2W	1/2H																			
11	1L	1L	1/2L	1/2L	1/2C	1/2C	1/2C	1/2C	1/2L	1/2C	1/2C	1/2C	1/2L																	
11	1L	1L	1C	1/2C	1/2C	1/2C	1/2C	1/2L	1/2C	1/2C	1/2C	1/2L																		
12	1W	1W	1H	1/2H	1/2W	1/2W	1/2H	1/2H	1/2W	1/2W	1/2H																			
12	2W	2W	1H	1/2H	1/2W	1/2W	1/2H	1/2H	1/2W	1/2W	1/2H																			
13	1L	1L	1C	1/2C	1/2C	1/2C	1/2C	1/2L	1/2C	1/2C	1/2C	1/2L																		
13	1L	1L	1C	1/2C	1/2C	1/2C	1/2C	1/2L	1/2C	1/2C	1/2C	1/2L																		
14	1W	1W	1H	1/2H	1/2W	1/2W	1/2H	1/2H	1/2W	1/2W	1/2H																			
14	2W	2W	1H	1/2H	1/2W	1/2W	1/2H	1/2H	1/2W	1/2W	1/2H																			

Double check (8/11/25)

## 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: ACMI  
Temp range: 5-25°C  
DayHr: 12

# Rescan (8/11)

Pl: Martyn  
Project: SA Species  
Planted: Aug 6 2025 @ 1600

Date 8/10/25

## SA Levels/Codes

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

Start Time 14:32 pm

End Time 17:02 pm

Name MH

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

## 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: ACMI

Temp range: 5-25oC

DayHr: 12

Date 8/9/28

Name Tern

Pl: Martyn

Project: SA Species

Planted: Aug 6 2025 @ 1600

Start Time	1410
End Time	1616

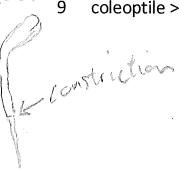
SA Levels/Codes																												
Control =		C		0.5mM =		L (low)		H (high)																				
Water =		W		1.0mM =																								
1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	
1	O/H	OL	OL	O/H	O/W	O/W	O/W	O/H	O/W	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/W	O/H	O/W	
1	O/H	OL	OL	O/H	O/W	O/W	O/W	O/H	O/W	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/W	O/H	O/W	
2	O/C	OL	OL	OC	O/C	O/C	O/C	OC	O/C																			
2	O/C	O/W	O/C	OC	O/C	O/C	O/C	OC	O/C																			
3	O/H	O/W	O/W	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/W	O/H	O/W	
3	O/H	O/W	O/W	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/W	O/H	O/W	
4	O/C	OC	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C
4	O/C	O/C	OL	OC	OL	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C
5	O/H	O/W	O/H	O/W	O/H	O/W	O/H	O/H	O/W	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/W	O/H	O/W	
5	O/H	O/W	O/H	O/W	O/H	O/W	O/H	O/H	O/W	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/W	O/H	O/W	
6	OC	OL	O/C	OC	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C
6	OC	O/C	O/C	OL	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C
7	O/H	O/W	O/H	O/W	O/H	O/W	O/H	O/H	O/W	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/W	O/H	O/W	
7	O/H	O/W	O/H	O/W	O/H	O/W	O/H	O/H	O/W	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/W	O/H	O/W	
8	OC	OL	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C
8	OC	OL	OC	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C
9	O/H	O/W	O/H	O/W	O/H	O/W	O/H	O/H	O/W	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/W	O/H	O/W	
9	O/H	O/W	O/H	O/W	O/H	O/W	O/H	O/H	O/W	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/W	O/H	O/W	
10	OC	OL	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C
10	OC	OL	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C
11	O/H	O/W	O/H	O/W	O/H	O/W	O/H	O/H	O/W	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/W	O/H	O/W	
11	O/H	O/W	O/H	O/W	O/H	O/W	O/H	O/H	O/W	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/W	O/H	O/W	
12	OC	OL	OC	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C
12	OC	OL	OC	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C
13	O/H	O/W	O/H	O/W	O/H	O/W	O/H	O/H	O/W	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/W	O/H	O/W	
13	O/H	O/W	O/H	O/W	O/H	O/W	O/H	O/H	O/W	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/H	O/W	O/W	O/H	O/W	O/H	O/W	
14	OC	OL	OC	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C
14	OC	OL	OC	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C	O/C

## 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
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- 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:

make sure to differentiate  
root from stem



Tern  
acclimatized  
of smooth  
do not call a  
unless see leaves

Species: ACM1

Pl: Martyn

Temp range: 5-25°C

Project: SA Species

DayHr: 12

Planted: Aug 6 2025 @ 1600

Date 8/8/25

Start Time 12:47 pm

Name NH

End Time 14:02 pm

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

## 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: ACMI  
Temp range: 5-25°C  
DayHr: 12

PI: Martyn  
Project: SA Species  
Planted: Aug 6 2025 @ 1600

Date 8/7/25  
Name MTT

## SA Levels/Codes

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

Start Time 13:45 pm  
End Time 14:28 pm

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

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