

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

PI: Martyn  
Project: SA Species  
Planted: Jul 22 2025 @ 1830

Date 7/28/23

Name TEM

SA Levels/Codes

Control =

C

0.5mM =

L (low)

Water =

W

1.0mM =

H (high)

Start Time 1343

End Time 1320

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

enter Trt on Pgl & auto poplata  
in report?

Notes:

Species: ACHY  
Temp range: 5-25°C  
DayHr: 12

PI: Martyn  
Project: SA Species  
Planted: Jul 22 2025 @ 1830

Date 7/27/25

Name TEM

SA Levels/Codes

Control =

C

0.5mM =

L (low)

Water =

W

1.0mM =

H (high)

Start Time 1327

End Time 1511

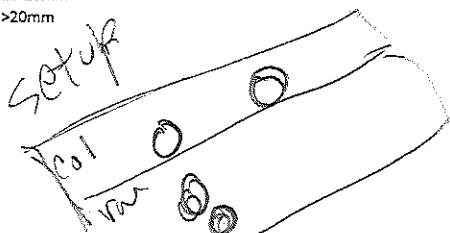
	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14
1																												
1	OC	OW	OC	OW	OC	OW	OC	OW	OC	OW	OC	OW	OC	OW	OC	OW	OC	OW	OC	OW	OC	OW	OC	OW	OC	OW	OC	OW
2	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH
2	OL	OH	OL	OH	OL	OH	OL	OH	OL	OH	OL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

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:



end time must be end not "nearly"

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

PI: Martyn  
Project: SA Species  
Planted: Jul 22 2025 @ 1830

Date 7/26/25

SA Levels/Codes

Control =

C

0.5mM =

L (low)

Water =

W

1.0mM =

H (high)

Start Time 1341

Name TM

End Time 1606

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

Still unsure

add growth flag

insure  
pyrene tape on  
sun board

Notes:

Species: ACHY  
Temp range: 5-250C  
DayHr: 12

PI: Martyn  
Project: SA Species  
Planted: Jul 22 2025 @ 1830

Date 7/25/25

SA Levels/Codes

Control =

C

0.5mM =

L (low)

Start Time

12:05

Name M/H

Water =

W

1.0mM =

H (high)

End Time

1:40

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

Codes:

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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:

not sure about  
this section, change if  
needed

double  
check

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

PI: Martyn  
Project: SA Species  
Planted: Jul 22 2025 @ 1830

Date 7/24/25

SA Levels/Codes

Control =

C

0.5mM =

L (low)

Start Time 13:40 pm

Name MH

Water =

W

1.0mM =

H (high)

End Time 15:58 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	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC
1	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH
2	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH
2	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH
3	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC
3	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH
4	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH
4	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH
5	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC
5	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH
6	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH
6	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH
7	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC
7	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH
8	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC
8	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH
9	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC
9	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH
10	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC
10	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH
11	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC
11	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH
12	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC
12	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH
13	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC
13	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH
14	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC	OL	OC
14	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH	OH

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 >20mm  |
| 4 | radicle 10-20mm  |   |   |
| 5 | radicle >20mm  |   |   |

Notes:

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

PI: Martyn  
Project: SA Species  
Planted: Jul 22 2025 @ 1830

Date 7/23/2025

SA Levels/Codes

Control =

C

0.5mM =

L (low)

Water =

W

1.0mM =

H (high)

Start Time 1419

End Time 1620

Name TEM

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

NIGHT →

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

missing  
not planted

Notes:

\* Check all my o/i? if not easily visible on 7/24 change these 7/23 values to Ø. \* scan sheets daily to my email using office printer