



Date 7-5-25

SA Levels/Codes

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

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				
SW	W	WL	WL	EW	W	WL	OL	ON	EW	SL	WL	GW	OW	A	EW	WL	A	L	GW	W	Q	3	W	WL	OL						
OW	IW	WL	WL	ON	EW	WL	WL	ON	EW	WL	OL	ON	EW	WL	3	EW	ON	WL	ON	EW	3	L	EW	WL	WL						
SC	SC	SH	SH	SC	SC	SH	OH	A	C	SH	OH	SC	OC	A	X	OC	SH	SH	A	SC	SH	OC	SC	OH	SH	SH					
SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SH	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SC	SH					
EW	P	EW	OL	OL	EW	WL	SL	EW	WL	EW	WL	ON	EW	A	EW	WL	WL	ON	EW	WL	OL	EW	WL	OL	EW	WL					
OW	EW	WL	WL	EW	EW	WL	WL	ON	EW	WL	OL	3	EW	WL	WL	EW	ON	WL	EW	WL	OL	EW	WL	OL	EW	WL					
OC	SH	OH	AC	SH	SH	AC	SH	SH	OH	SH	OH	AC	SH	OH	AC	OC	OH	SH	SC	SC	SH	AC	SH	AC	SH	AC	SH				
SC	SH	SH	SH	SC	SC	SH	SH	SC	SC	SH	SH	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SC	SH					
IW	WL	WL	WL	OL	OL	EW	WL	SL	EW	WL	OL	ON	EW	OL	ON	EW	WL	OL	OL	EW	WL	OL	EW	WL	OL	EW	WL				
EW	WL	WL	WL	3	EW	EW	WL	EW	EW	WL	OL	ON	EW	WL	3	EW	EW	WL	OL	EW	WL	OL	EW	WL	OL	EW	WL				
SC	SC	SH	SH	AC	SC	AC	OH	SH	SC	SC	SH	AC	SH	SH	AC	SC	SH	AC	SC	AC	SC	SC	SH	SC	SH	SC	SH				
SC	SC	SH	SH	C	SC	SC	SH	SH	SC	OC	SH	SH	SC	SH	SC	SC	SH	SC	SC	SC	SC	SC	SC	SH	SC	SH	SC	SH			
ON	ON	OL	WL	EW	WL	OL	OL	EW	WL	WL	OL	EW	WL	OL	OL	EW	WL	OL	OL	EW	WL	OL	EW	WL	OL	EW	WL				
OW	IW	WL	WL	OW	EW	WL	WL	LOW	EW	WL	WL	EW	WL	WL	3	EW	WL	3	EW	WL	WL	OL	EW	WL	WL	OL	EW	WL			
SC	SC	SH	OH	AC	IC	IC	OH	SH	YS	SC	YS	H	OC	SC	SH	SC	SH	SC	SH	IC	SH	AC	SC	SC	SH	SC	SH				
IC	SC	SH	SH	IC	SC	SC	SH	SH	IC	SC	SC	SH	SH	IC	SC	SC	SH	SH	IC	SC	SC	SH	IC	SC	SC	SH	SC	SH			
EW	IW	WL	SH	IC	EW	WL	SL	EW	WL	EW	OL	EW	WL	SH	EW	WL	EW	EV	OL	EW	WL	OL	EW	WL	OL	EW	WL				
EW	EW	OL	OL	EW	EW	WL	SL	EW	EW	EW	WL	EW	WL	SH	EW	WL	EW	EW	EV	EW	WL	OL	EW	WL	OL	EW	WL				
SC	SC	SH	SH	AC	SC	SC	SH	SH	SC	SC	SH	SH	AC	SH	SC	SC	SH	SH	SC	SC	SH	IC	SH	SC	SC	SH	SC	SH			
SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SC	SC	SH	SC	SH		
OW	EW	WL	WL	EW	EW	WL	WL	EW	WL	OL	EW	EW	OL	EW	ON	WL	OL	EW	OL	EW	WL	OL	EW	WL	OL	EW	WL				
EW	EW	WL	WL	EW	EW	WL	WL	EW	EW	WL	OL	EW	EW	WL	OL	EW	EW	WL	OL	EW	EW	WL	OL	EW	EW	WL	OL	EW	WL		
SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SC	SC	SH	SC	SH		
SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SC	SC	SH	SC	SH		
ON	ON	OL	OL	ON	ON	OL	OL	ON	ON	OL	OL	ON	ON	OL	OL	ON	ON	OL	OL	ON	ON										
EW	EW	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW										
SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SC	SC	SH	SC	SH	SC	SH
SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SC	SC	SH	SC	SH	SC	SH
ON	ON	OL	OL	ON	ON	OL	OL	ON	ON	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW										
EW	EW	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW										
SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SC	SC	SH	SC	SH	SC	SH
SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SC	SC	SH	SC	SH	SC	SH
ON	ON	OL	OL	ON	ON	OL	OL	ON	ON	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW										
EW	EW	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW										
SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SC	SC	SH	SC	SH	SC	SH
SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SC	SC	SH	SC	SH	SC	SH
ON	ON	OL	OL	ON	ON	OL	OL	ON	ON	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW										
EW	EW	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW										
SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SC	SC	SH	SC	SH	SC	SH
SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SC	SC	SH	SC	SH	SC	SH
ON	ON	OL	OL	ON	ON	OL	OL	ON	ON	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW										
EW	EW	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW										
SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SC	SC	SH	SC	SH	SC	SH
SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SC	SC	SH	SC	SH	SC	SH
ON	ON	OL	OL	ON	ON	OL	OL	ON	ON	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW										
EW	EW	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW										
SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SC	SC	SH	SC	SH	SC	SH
SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SC	SC	SH	SC	SH	SC	SH
ON	ON	OL	OL	ON	ON	OL	OL	ON	ON	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW										
EW	EW	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW										
SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SC	SC	SH	SC	SH	SC	SH
SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SC	SC	SH	SC	SH	SC	SH
ON	ON	OL	OL	ON	ON	OL	OL	ON	ON	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW										
EW	EW	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW										
SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SC	SC	SH	SC	SH	SC	SH
SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SH	SC	SC	SH	SC	SC	SH	SC	SC	SH	SC	SH	SC	SH
ON	ON	OL	OL	ON	ON	OL	OL	ON	ON	OL	OL	EW	EW	OL	OL	EW	EW	OL	OL	EW	EW	OL	EW	EW	OL	EW	EW	OL			

DayHr: 12

Date 7-4-25

SA Levels/Codes

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

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

Notes:

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

Date 7-3-25

SA Levels/Codes

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

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	OH	OC	OC	OH	OC	OC	OH	OH	OC	OC	OC	OH	OC	OC	OH	OC												
1	OH	OC	OC	OH	OC	OC	OH	OC	OC	OC	OC	OH	OC															
2	SL	SW	SW	SL	SL	SW	SW	SL	SL	SL	SL	SL	SW	SW	SL													
2	SL	OW	OW	SL	SL	OW	OW	SL	SL	SL	SL	SL	OW	OW	SL													
3	WH	OH	OC	WH	OC	OC	WH	WH	OC	OC	OC	OH	WH	OC														
3	OH	WH	OC	WH	OC	OC	WH	WH	OC	OC	OC	WH	WH	OC														
4	OL	OW	OW	WL	WL	WH	WH	WL	WL	WL	WL	WL	SW	WL														
4	WL	OW	OW	WL																								
5	WH	WH	OC	WH	OC	OC	WH	WH	OC	OC	OC	WH	WH	OC														
5	WH	WH	OC	WH	OC	OC	WH	WH	OC	OC	OC	WH	WH	OC														
6	WL																											
6	WL																											
7	OH	OH	SC	OC	OC	AC	WH	WH	OC	OC	OC	WH	WH	OC														
7	WH	WH	OC	OC	WH	WH	OC	OC	OC	OC	OC	WH	WH	OC														
8	OL	OL	OW	ON	OL	OL	SW	WL																				
8	WL	WL	OW	WL																								
9	WH	WH	OC	WH	WH	OC	WH	WH	OC	OC	OC	WH	WH	AC	WH													
9	OH	WH	SC	WH	WH	OC	WH	WH	OC	OC	OC	WH	WH	OC														
10	WL	WL	WH	WH	WL																							
10	OL	OL	OL	ON	WL																							
11	OH	SN	OC	WH	WH	OC	WH	WH	OC	OC	OC	WH	WH	WH	OC													
11	WH	WH	OC	WH	WH	OC	WH	WH	OC	OC	OC	WH	WH	WH	OC													
12	WL																											
12	WL																											
13	WH	WH	OC	WH	WH	OC	WH	WH	OC	OC	OC	WH	WH	WH	OC													
13	OH	WH	OC	WH	WH	OC	WH	WH	OC	OC	OC	WH	WH	WH	OC													
14	WL	WL	ON	ON	WL																							
14	OL	OL	OL	ON	WL																							

Notes:

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