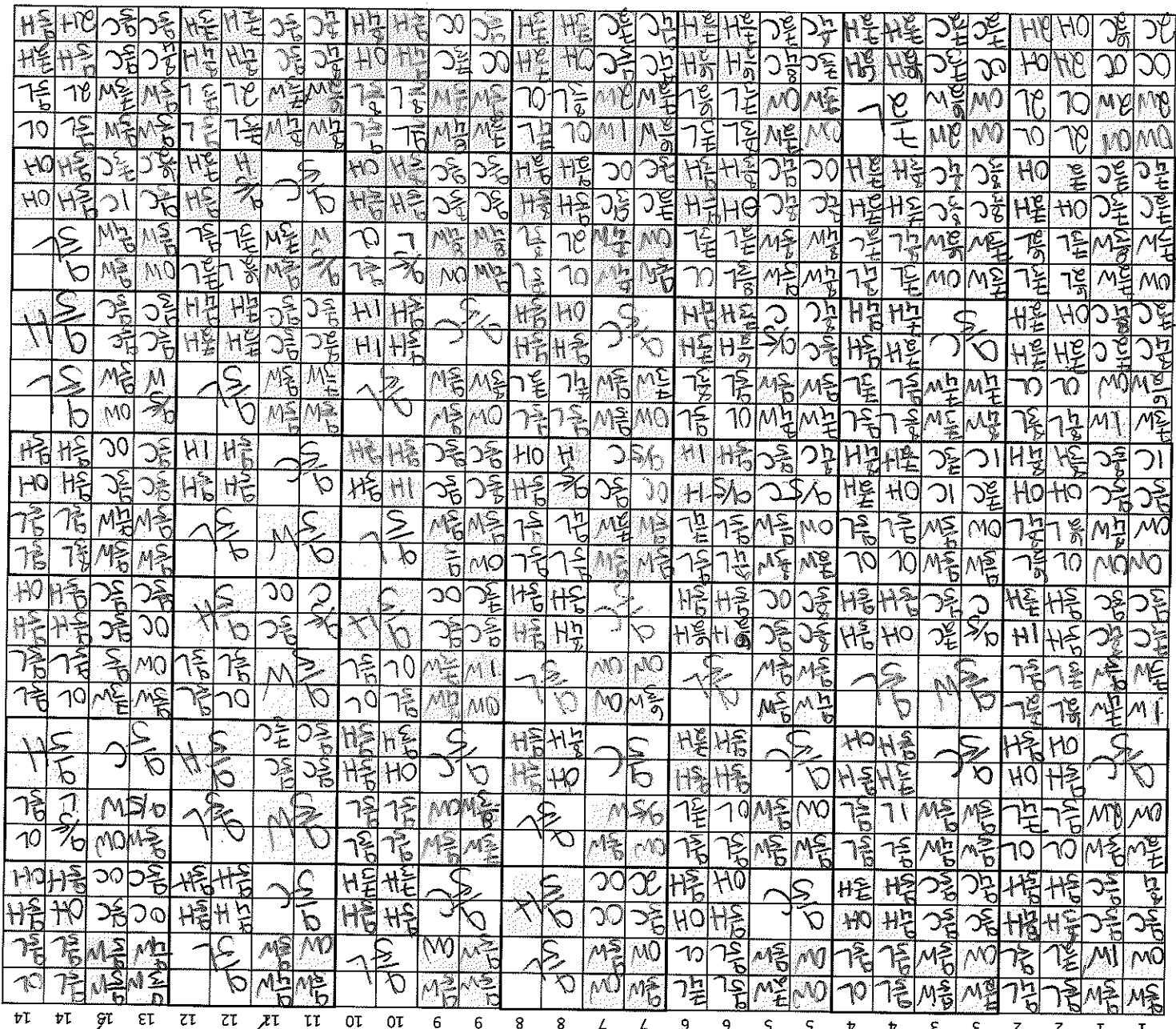


Notes:



- 0 no radicle emergence (can only use once)
- 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 length 0-10mm
- 7 coleoptile length 10-20mm
- 8 coleoptile >20mm
- 9 first true leaf emergence (can only use once)
- 10 first true leaf emergence (can only use once)
- 11
- 12
- 13
- 14

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	
SA levels/Codes																												
Species: POS																												
Date:	9-4-05																											
Name:	MH																											
Control =	C	0.5MM =	W	1.0MM =	H (high)																							
PI: Maren																												
Project: SA Species																												
Day/Hr: 12																												
Temp range: 5-25°C																												
First instance of radiile emergence (can only use once)																												
radiile 6-10mm																												
radiile 10-20mm																												
collapseable length D=10mm																												
collapseable length D=20mm																												
radiile >20mm																												
notes:																												

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



Project SA Specification

SA Levels/Codes  
Central = C  
0.5MM = W  
1.0MM = H (high)  
Low = L (low)

Name LEW  
Date 7-2-2025  
Day/Hr: 12  
Temp range: 5-25°C

Notes

- |                          |                                                             |
|--------------------------|-------------------------------------------------------------|
| no radiate emerging wave | first instance of radiate emerging wave (can only use once) |
| radiate 6-10mm           | radiate 10-20mm                                             |
| radiate 10-20mm          | radiate 20-25mm                                             |
| radiate 25-30mm          | collapse length 0-10mm                                      |
| collapse length 0-10mm   | collapse length 10-20mm                                     |
| collapse length 10-20mm  | collapse length >20mm                                       |
| collapse length >20mm    | first true leaf emergence (can only use once)               |

Name MH Control = C Water = W 0.5M = L (low) 1.0M = H (high)

## SA Levels/Codes

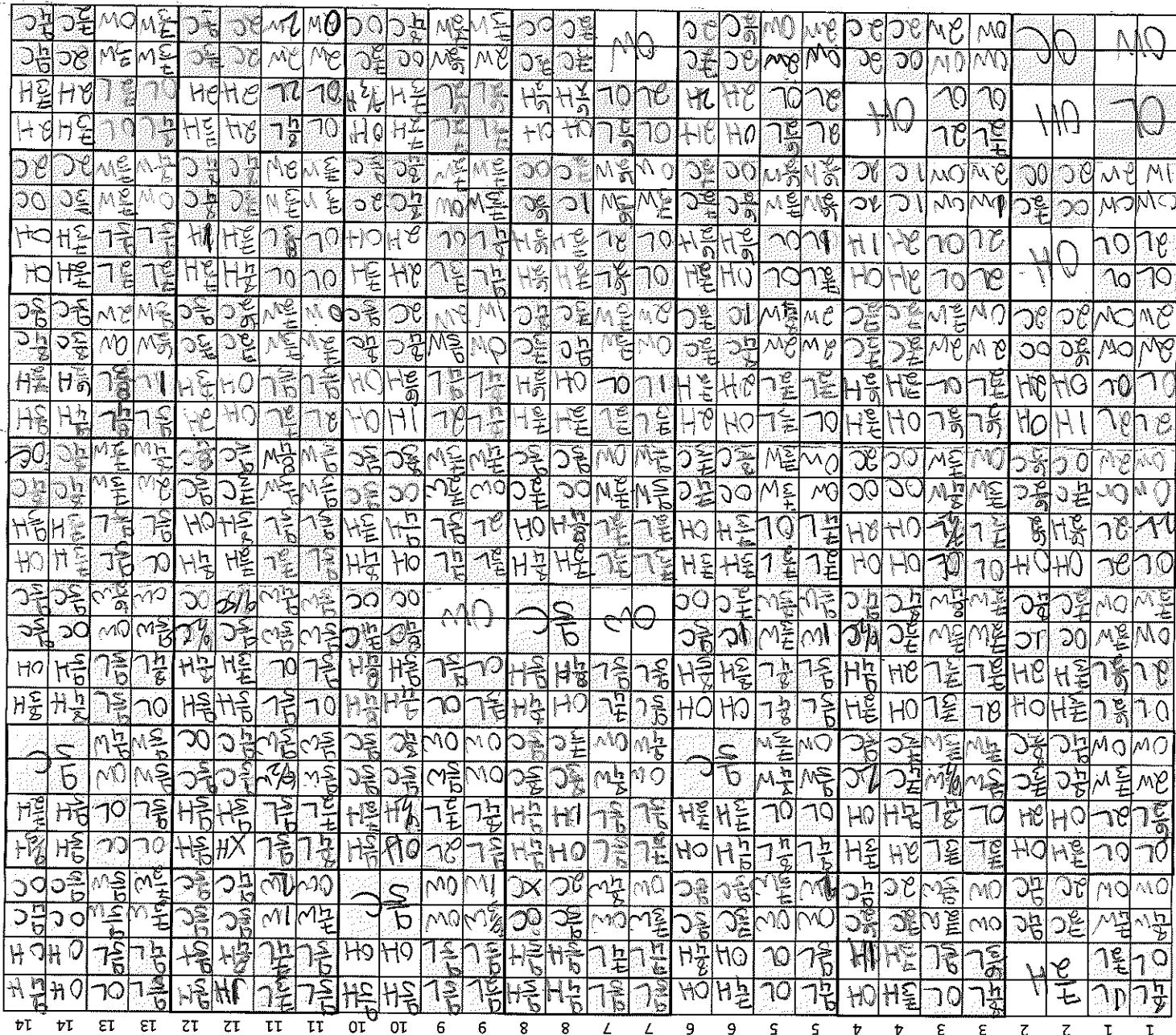
-28-

Species: PoSE  
Temp range: 5-25°C  
Dayhr: 12  
Date

Project: SA Species

## Notes:

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



Name MH Water = W 1.0MM = H (high)  
Control = C 0.5MM = L (low)

SAA Reviews/Reviews

~~SC-08-6~~

Project: SA Species  
PI: Marlyn

## Notes:

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

Name	MH, PW
Date	16-01-88
SA Levels/Codes	
Control =	C
Water =	W
0.5MM =	L (low)
1.0MM =	H (high)

Project: SA Species  
PI: Martyn

ANS  
ANS

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

Name MH

Species: POS

Date 10-28-08

Day/Hr: 12

Temp range: 5-25°C

Project: SA Species

PH: Mayrin

Project: SA Species

Water = 0.5MM = 1.0MM = L (low) H (high)

Saleve/s/Codes Control = C Bspeeds = 1 - BAC

SAleve/s =

- Notes:
- 0 no radiicle emergence (can only use once)
  - 1 first true leaf emergence (can only use once)
  - 2 radiicle 1-5mm long
  - 3 radiicle 6-10mm
  - 4 radiicle 10-20mm
  - 5 radiicle >20mm
  - 6 coleoptile emergence (can only use once)
  - 7 coleoptile length 0-10mm
  - 8 coleoptile length >10mm
  - 9 coleoptile >20mm
  - 10 first true leaf emergence (can only use once)
  - 11 radiicle 1-5mm long
  - 12 radiicle 6-10mm
  - 13 radiicle 10-20mm
  - 14 radiicle >20mm



## **Notes:**

1	first instance of radicle emergence (can only use once)
2	radicle 2-5mm long (can only use once)
3	radicle 6-10mm (can only use once)
4	radicle 10-20mm (can only use once)
5	radicle >20mm (can only use once)
6	coleoptile $<20\text{mm}$ (can only use once)
7	coleoptile length 0-10mm (can only use once)
8	coleoptile length 10-20mm (can only use once)
9	coleoptile length >20mm (can only use once)
10	first true leaf emergence (can only use once)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
26	27	28	29	30	31	32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47	48	49	50	51	52	53
54	55	56	57	58	59	60	61	62	63	64	65	66	67
68	69	70	71	72	73	74	75	76	77	78	79	80	81
82	83	84	85	86	87	88	89	90	91	92	93	94	95
96	97	98	99	100	101	102	103	104	105	106	107	108	109
110	111	112	113	114	115	116	117	118	119	120	121	122	123
124	125	126	127	128	129	130	131	132	133	134	135	136	137
138	139	140	141	142	143	144	145	146	147	148	149	150	151
152	153	154	155	156	157	158	159	160	161	162	163	164	165
166	167	168	169	170	171	172	173	174	175	176	177	178	179
180	181	182	183	184	185	186	187	188	189	190	191	192	193
194	195	196	197	198	199	200	201	202	203	204	205	206	207
208	209	210	211	212	213	214	215	216	217	218	219	220	221
222	223	224	225	226	227	228	229	230	231	232	233	234	235
236	237	238	239	240	241	242	243	244	245	246	247	248	249
250	251	252	253	254	255	256	257	258	259	260	261	262	263
264	265	266	267	268	269	270	271	272	273	274	275	276	277
278	279	280	281	282	283	284	285	286	287	288	289	290	291
292	293	294	295	296	297	298	299	300	301	302	303	304	305
306	307	308	309	310	311	312	313	314	315	316	317	318	319
320	321	322	323	324	325	326	327	328	329	330	331	332	333
334	335	336	337	338	339	340	341	342	343	344	345	346	347
348	349	350	351	352	353	354	355	356	357	358	359	360	361
362	363	364	365	366	367	368	369	370	371	372	373	374	375
376	377	378	379	380	381	382	383	384	385	386	387	388	389
390	391	392	393	394	395	396	397	398	399	400	401	402	403
404	405	406	407	408	409	410	411	412	413	414	415	416	417
418	419	420	421	422	423	424	425	426	427	428	429	430	431
432	433	434	435	436	437	438	439	440	441	442	443	444	445
446	447	448	449	450	451	452	453	454	455	456	457	458	459
460	461	462	463	464	465	466	467	468	469	470	471	472	473
474	475	476	477	478	479	480	481	482	483	484	485	486	487
488	489	490	491	492	493	494	495	496	497	498	499	500	501

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

Name \_\_\_\_\_

Day/Hr: 12 Date  
6-26-25

Temp range: 5-25°C  
Species: PoSE

Project: SA Species

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

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
24	23	22	21	20	19	18	17	16	15	14	13	12	11	10
19	18	17	16	15	14	13	12	11	10	9	8	7	6	5
18	17	16	15	14	13	12	11	10	9	8	7	6	5	4
17	16	15	14	13	12	11	10	9	8	7	6	5	4	3
16	15	14	13	12	11	10	9	8	7	6	5	4	3	2
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

Name TEM M14  
 Date 6/25/25  
 Species: POSC  
 Temp range: 5-25°C  
 Day/Hr: 12  
 PI: Martin  
 Project: SA Species  
 SA levels/Codes  
 Water = C  
 0.5MM = L (low)  
 1.0MM = H (high)

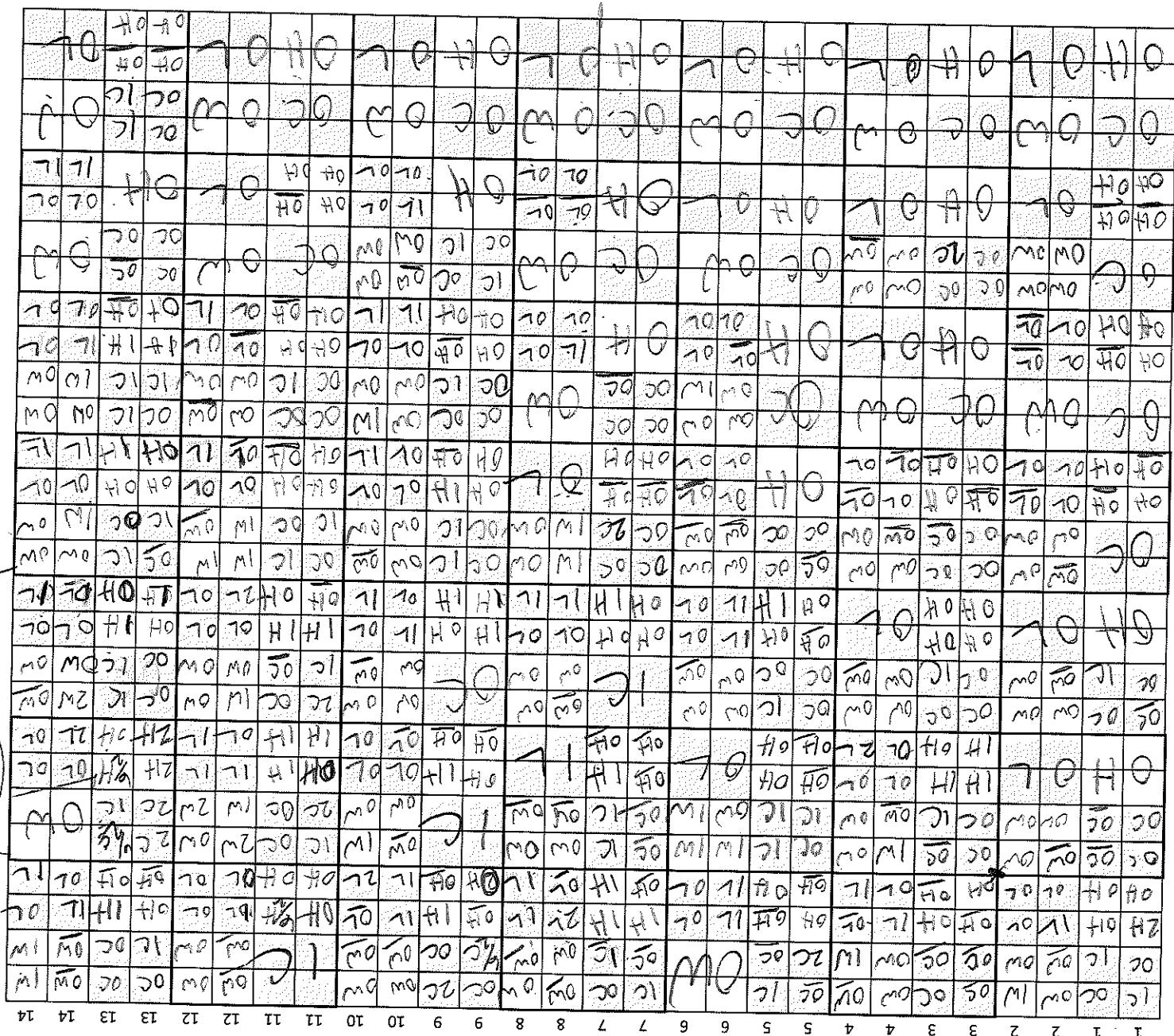
1240

C  
 X  
 V

Notes:  
 0 no radiotele emergency  
 1 first instance of radiotele emergency (can only use once)  
 2 radiotele 1.5mm long  
 3 radiotele 6-10mm  
 4 radiotele 10-20mm  
 5 radiotele >20mm  
 6 collapseable emergence (can only use once)  
 7 collapseable length 0-10mm  
 8 collapseable length 10-20mm  
 9 collapseable length >20mm  
 10 first true leaf emergence (can only use once)

- decide to use slash method because cold front is coming up quickly
- suddenly snow cold see ↪ check tree

### total climate



Name CEM Date 6/12/12  
 Species: POSE Temp range: 5-25°C Day/Hr: 12  
 PI: Martin Project: SA Species

SA levels/Codes  
 Central = C  
 0.5mm = L (low)  
 1.0mm = H (high)

Notes:

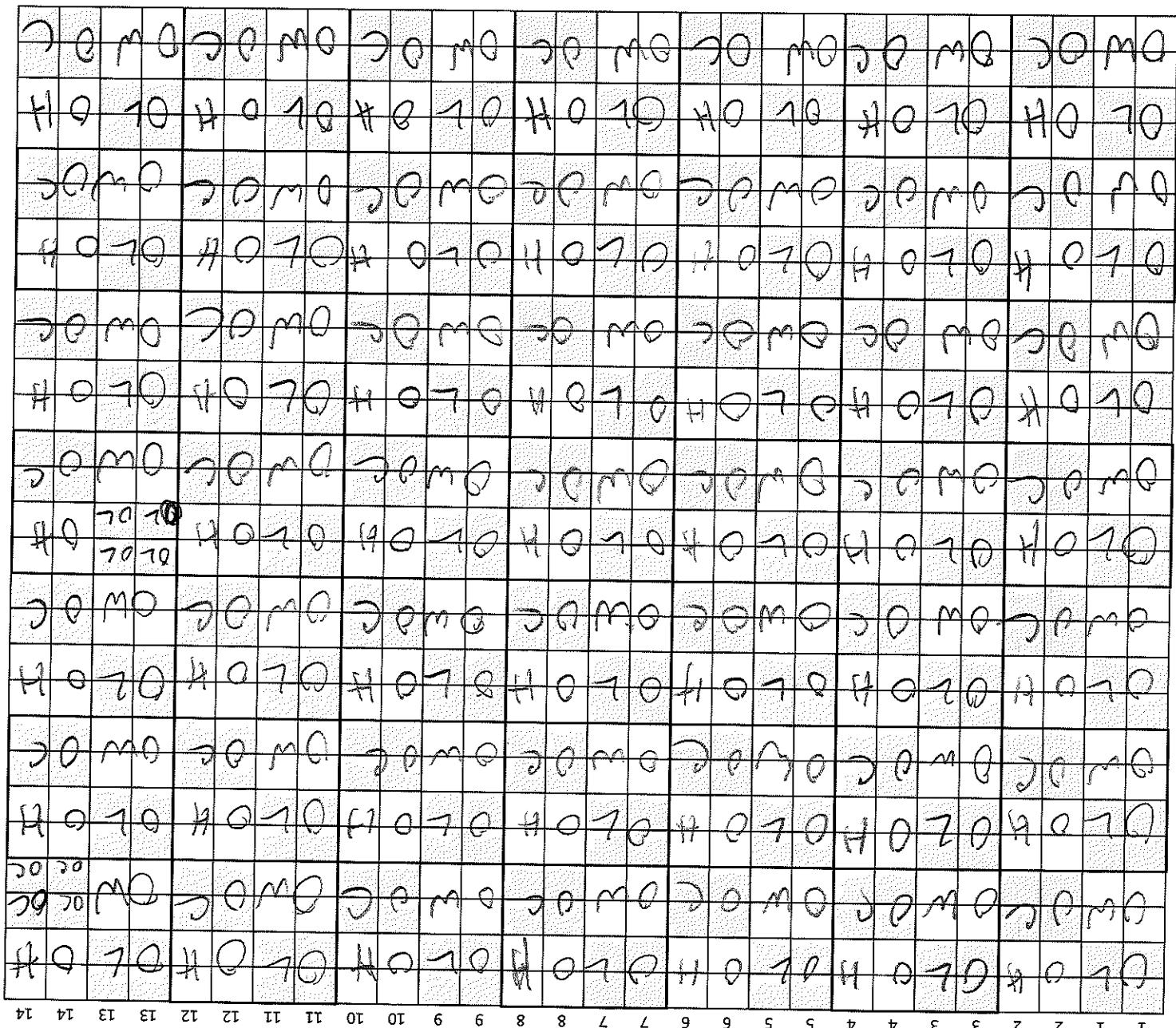
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	radicle 6-10mm													
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	radicle >20mm													
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	coleoptile length 0-10mm													
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	first true leaf emergence (can only use once)	first true leaf emergence (can only use once)	first true leaf emergence (can only use once)	first true leaf emergence (can only use once)	first true leaf emergence (can only use once)	first true leaf emergence (can only use once)	first true leaf emergence (can only use once)	first true leaf emergence (can only use once)	first true leaf emergence (can only use once)	first true leaf emergence (can only use once)	first true leaf emergence (can only use once)	first true leaf emergence (can only use once)	first true leaf emergence (can only use once)	first true leaf emergence (can only use once)
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Name: T-EM  
Date: 6/23/25  
Day #: 12  
Temp range: 5-25°C  
Species: POSE  
Project: SA Species  
PI: Marlyn

Project: SA Species  
PI: Marlyn

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 length 0-10mm  
 7 coleoptile length 10-20mm  
 8 coleoptile length >20mm  
 9 coleoptile length 0-10mm  
 10 first true leaf emergence (can only use once)

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



Species: POSPE		Date: 6/22/25	Temp range: 5-25°C	Day HR: 12	Name: CEM
SA Levels/Codes	Control = C	0.5MM = L (low)	WATER = W	H (high)	
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36
37	38	39	40	41	42
43	44	45	46	47	48
49	50	51	52	53	54
55	56	57	58	59	60
61	62	63	64	65	66
67	68	69	70	71	72
73	74	75	76	77	78
79	80	81	82	83	84
85	86	87	88	89	90
91	92	93	94	95	96
97	98	99	100	101	102