

Measurement of the seeds weight

Replicate 1					
Seeds	0 mg/mL	0.2 mg/mL	0.6 mg/mL	1 mg/mL	5 mg/mL
1	32.1	37.3	24.7	34	28
2	25.1	30.7	26.2	18.3	26.1
3	33.8	36.9	30.5	20.9	31.9
4	22.9	42.8	22.7	32.3	33.9
5	23.6	37.8	33.3	36.4	23.9
6	31.5	49.8	23.5	22.9	34.1
7	31.7	38.2	28.4	28.5	26.5
8	26.6	28.8	24.5	35.3	36.8
9	42.9	26.6	23.3	29.4	32.6
10	33.7	43.6	16.7	36.7	24.7
11	23.5	35.5	21.8	30.5	27.2
12	24.5	33.8	29.5	24.6	33.9
13	28.2	32.1	32	21.4	37.3
14	27.9	35.5	29.2	36.2	24.5
15	26.5	36.3	36.6	23.1	30.5
16	23.3	36.8	23	18.9	35.8
17	27.7	28.5	32.6	24.7	33.5
18	38.3	32	20.3	29	33.4
19	30.5	40.2	31.5	31.4	27.7
20	21.8	32.2	25.2	34.4	24.1
Replicate 2					
Seeds	0 mg/mL	0.2 mg/mL	0.6 mg/mL	1 mg/mL	5 mg/mL
1	27.8	24.7	27.3	31.6	20.8

2	40.2	32.5	33.3	31.1	33.6
3	36.1	19	22.1	22.7	36.4
4	25.3	20.8	32.5	30.8	29.8
5	34.1	27.6	22.6	33.6	26.1
6	32.7	25.5	32.8	27.5	25.1
7	43.3	21.1	25	33.6	33.5
8	31.2	32.6	24.6	22.3	27.3
9	25	19.6	22.1	35.4	25
10	28.5	21.4	18.2	22.3	25.5
11	38.9	24.6	25.4	35.2	28.7
12	33.4	19.8	28.1	26.1	23.8
13	26	27.8	26	27.3	28
14	28	12.3	28.2	22.4	28
15	47.3	22.8	24.1	26.8	30.5
16	38.1	21.3	35.3	30.9	34.2
17	34.1	15.6	28.1	20	29.9
18	40	26	23.6	24.8	26.4
19	25.8	24.5	18.2	19.4	34.5
20	23	21.5	25.8	22.8	
Replicate 3					
Seeds	0 mg/mL	0.2 mg/mL	0.6 mg/mL	1 mg/mL	5 mg/mL
1	51.5	39.7	24.7	31.3	33.6
2	32.6	21.8	23.2	32.6	26.5
3	23.8	33.5	25.4	23.2	33.9
4	28.5	18.6	27.3	24.1	24.7
5	25.2	18.7	23.4	32.4	35.8
6	42	23.1	30	31.1	39.1
7	41.7	24.7	31.3	33	38.9
8	36	29.4	26.2	19.5	31.7

9	24.8	32	29.3	29.8	45.1
10	40.1	32.7	32.9	24.4	39.9
11	28.8	29.1	21.1	22.3	40
12	31.7	23.4	27	29.4	37.8
13	41.5	21.7	18	22.2	31.6
14	39.4	28.1	28	27.1	36.8
15	28.3	22.1	37.9	24.1	33.4
16	33.6	17	22.7	19.2	35.5
17	34.5	31.7	30	30.9	39.2
18	37	24.8	25.5	29.1	39.9
19	49.5	26.1	24.5	18.2	33.6
20	44.4	36	22.8	33.2	33.6

Replicate 4					
Seeds	0 mg/mL	0.2 mg/mL	0.6 mg/mL	1 mg/mL	5 mg/mL
1	34.9	18.3	20.9		
2	38	22.3	24.8		
3	33.7	27	28.5		
4	31.8	21	22.8		
5	33.5	41.5	30.7		
6	25.1	23.3	39.4		
7	31.9	27.1	22.9		
8	43.1	41	29.2		
9	34	25.3	25.6		
10	48.8	36.4	26.6		
11	25.5	34.6	25.9		
12	53.9	34.4	25.2		
13	41.1	38	27.6		
14	31.1	27.9	33.1		
15	35.5	24.6	34.4		

16	32.2	23.9	29.5		
17	38.4	37.1	28.7		
18	27	27.2	26.1		
19	55.9	23.5	40.1		
20	28.3	34.4	27.1		
				566.6/20	544.7/20
Average				28.3	27.2
Replicate 5					
Seeds	0 mg/mL	0.2 mg/mL	0.6 mg/mL	1 mg/mL	5 mg/mL
1	33.8	18	28.9		
2	14.6	23.9	29.3		
3	30.2	28.1	29.7		
4	23.9	26.2	26.5		
5	29.1	26.6	32.4		
6	33.4	40.5	24.8		
7	20.9	29.7	38.5		
8	18.9	30.7	37.9		
9	23.6	30.8	29.4		
10	19.2	27.3	36		
11	30.8	42.3	24		
12	19	43.3	27		
13	26.6	21.3	24.3		
14	25.6	28.8	36.5		
15	24.1	38.5	28.4		
16	23.5	37	35.2		
17	19.6	26.5	28.4		
18	24.8	32.2	33.4		
19	19.4	33.3	30		
20	19	45.8	27		
				594.0/19	607.2/20
Average				31.3	30.4

Measurement of the seedlings' size											
							% close 0	% close 0.2	% close 0.6	% close 1	% close 5
							19%	40%	56%	82%	99%
Replicate 1											
Seeds	0 mg/mL	0.2 mg/mL	0.6 mg/mL	1 mg/mL	5 mg/mL		% of dead 0	% of dead 0.2	% of dead 0.6	% of dead 1	% of dead 5
1	1.18	3.12	6.59	1.9	0		19%	19%	19%	19%	19%
2	2.48	2.52	4.37	0.7	0						
3	1.14	2.53	0.93	1.27	0		% not open 0	% not open 0.2	% not open 0.6	% not open 1	% not open 5
4	1.58	1.72	1.61	1.09	0		0%	21%	37%	63%	80%
5	0.93	1.72	1.11	2.07	0						
6	5.03	2.12	1.61	1.31	0						
7	3.14	3.75	2.28	0	0						
8	2.72	2.52	1.44	0	0						
9	2.66	2.96	3	0	0						
10	2.23	2.18	1.05	0	0						
11	4.83	0.76	0	0	0						
12	2.17	0.96	0	0	0						
13	1.66	0	0	0	0						
14	3	0	0	0	0						
15	7.99	0	0	0	0						
16	8.19	0	0	0	0						
17	6.09	0	0	0	0						
18	0	0	0	0	0						
19	0	0	0	0	0						
20	0	0	0	0	0						
Average	3.35	2.24	2.4	1.39	/						
# of dead seeds	3	8	10	14	20						
# of living seeds	17	12	10	6	0						
σ	2.21	0.83	1.73	0.47	0						
Replicate 2											
Seeds	0 mg/mL	0.2 mg/mL	0.6 mg/mL	1 mg/mL	5 mg/mL						
1	1.98	2.67	1.24	1.19	0						
2	3.14	0.91	3.72	0	0						
3	5.48	1.64	2.25	0	0						
4	2.41	2.05	1.14	0	0						
5	2.31	1.29	1.74	0	0						
6	5.55	0	1.24	0	0						

7	4.36	0	1	0	0
8	5	0	0	0	0
9	3.32	0	0	0	0
10	4.29	0	0	0	0
11	4.9	0	0	0	0
12	4.51	0	0	0	0
13	6.89	0	0	0	0
14	8.2	0	0	0	0
15	5.25	0	0	0	0
16	1.86	0	0	0	0
17	6.92	0	0	0	0
18	1.48	0	0	0	0
19	0.61	0	0	0	0
20	0	0	0	0	0
Average	4.13	1.71	1.76	1.19	/
# of dead seeds	1	15	13	19	20
# of living seeds	19	5	7	1	0
σ	2	0.61	0.9	0	0

Replicate 3

Seeds	0 mg/mL	0.2 mg/mL	0.6 mg/mL	1 mg/mL	5 mg/mL
1	7.29	1.75	0.73	0.85	0
2	4.79	1.72	1.45	1.07	0
3	2.2	1.67	1.43	0	0
4	2.29	1.18	0.67	0	0
5	4.35	2.31	1.03	0	0
6	2.32	2.33	1.78	0	0
7	0.93	2.33	1.3	0	0
8	1.83	3.43	1.62	0	0
9	0.98	2.21	3.16	0	0
10	0.89	2.07	0	0	0
11	1.53	0.88	0	0	0
12	1.93	0	0	0	0
13	2.32	0	0	0	0
14	1.83	0	0	0	0
15	0	0	0	0	0
16	0	0	0	0	0
17	0	0	0	0	0
18	0	0	0	0	0

19	0	0	0	0	0
20	0	0	0	0	0
Average	2.53	1.99	1.46	0.96	/
# of dead seeds	6	9	11	18	20
# of living seeds	14	11	9	2	0
σ	1.72	0.64	0.7	0.11	0

Replicate 4

Seeds	0 mg/mL	0.2 mg/mL	0.6 mg/mL	1 mg/mL	5 mg/mL
1	5.9	1.44	0.69	0.84	0
2	4.17	1.54	0.99	1.02	0
3	1.49	2.43	2.42	1	0
4	3.58	1.48	2.24	0	0
5	2.59	2.56	1.04	0	0
6	1.98	1.84	1.34	0	0
7	3.18	4.75	3.57	0	0
8	1.89	1.06	2.03	0	0
9	1.18	1.52	2.49	0	0
10	1.95	2.87	2.35	0	0
11	1.47	1.89	4.52	0	0
12	1.72	1.41	3.42	0	0
13	3.13	4.36	0	0	0
14	1.03	3.22	0	0	0
15	1.45	0	0	0	0
16	2.32	0	0	0	0
17	0.99	0	0	0	0
18	0	0	0	0	0
19	0	0	0	0	0
20	0	0	0	0	0
Average	2.35	2.31	2.26	0.95	/
# of dead seeds	3	6	8	17	20
# of living seeds	17	14	12	3	0
σ	1.26	1.09	1.1	0.09	0

Replicate 5

Seeds	0 mg/mL	0.2 mg/mL	0.6 mg/mL	1 mg/mL	5 mg/mL
1	10.19	0.77	2.33	1.88	1.48

2	1.75	3.6	1.55	2.13	0						
3	2.11	4.73	0.91	1.12	0						
4	1.85	4.67	1.25	1.67	0						
5	6.49	0.8	1.86	1	0						
6	4.16	5.08	1.77	0	0						
7	3.98	3.25	0	0	0						
8	3.9	4.23	0	0	0						
9	1.27	3.48	0	0	0						
10	2.26	2.73	0	0	0						
11	3.39	2.75	0	0	0						
12	2.63	3.75	0	0	0						
13	2.15	1.08	0	0	0						
14	4.78	1.7	0	0	0						
15	0	1.99	0	0	0						
16	0	3.71	0	0	0						
17	0	3.02	0	0	0						
18	0	1.76	0	0	0						
19	0	0	0	0	0						
20	0	0	0	0	0						
Average	3.64	2.95	1.61	1.56	1.48						
# of dead seeds	6	2	14	14	19						
# of living seeds	14	18	6	5	1						
σ	2.28	1.32	0.45	0.43	0						
Total Average :	3.2	2.24	1.9	1.21	0.3						
Total σ :	1.89	0.9	0.98	0.22	0						