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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Data for Experiment #2**  12/17/01: Nothing  12/18/01: S6.6a sprout; S6.8b sprout  12/19/01: S6.6a sprout more, seed of pea starting to show; S6.8b looks same; S7.2a sprout; S7.8b sprout and seed showing; V5.6a seed coming up; V6.4a sprout coming up 0.06mm  12/20/01: Sprouts show for S5.2b, S5.6b, S6.0a, S6.2a, S6.4a. S6.8a, S6.8b, S7.2a, S7.8b; S6.6a- 0.03mm; V6.4a- 0.06mm; V7.4b- 0.04mm  12/21/01: Sprouts show for same as above, including S5.4a, S5.6a, S5.8b, S6.6b; Sprouts show except V5.2b, V5.8a, V6.0a, V6.0b, V6.4b, V7.2b, V7.4a, V7.6b, V7.8a, V7.8b  12/22/01: All spouts can be measured. Data table shows seed size and height of each square in millimeters:   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Seed size | Soil (a) | Soil (b) | Vermiculite (a) | Vermiculite (b) | | 5.2 | sprout | 2 | 1.5 | sprout | | 5.4 | 1.4 | 1.2 | 1.6 | 1.7 | | 5.6 | 2.5 | 1.5 | 1.8 | 1.7 | | 5.8 | 1.5 | 3.5 | n/a | 2.5 | | 6 | 5 | 1.4 | 1 | n/a | | 6.2 | 5.9 | 0.4 | 2 | 2 | | 6.4 | 3 | 1.3 | 2 | 1 | | 6.6 | 3.5 | 2.5 | 1.5 | 2.4 | | 6.8 | 2.3 | 1.8 | 1.1 | 1.8 | | 7 | 0.8 | 3 | 1.2 | 1.5 | | 7.2 | 4 | 2 | 1.9 | 0.6 | | 7.4 | 2.4 | 2.5 | sprout | 1.4 | | 7.6 | 0.9 | 2.3 | 1 | n/a | | 7.8 | n/a | 3 | sprout | sprout | | 8 | 2.8 | 1.5 | 1.1 | 1.5 | | 12/23/01: |  |  |  |  | | Seed size | Soil (a) | Soil (b) | Vermiculite (a) | Vermiculite (b) | | 5.2 | 1.5 | 3.8 | 3.2 | 1.5 | | 5.4 | 2.6 | 2.5 | 3.5 | 3.5 | | 5.6 | 4.5 | 2.5 | 3 | 1.8 | | 5.8 | 2.5 | 5.5 | n/a | 3.5 | | 6 | 7 | 2.4 | 2 | 3.4 | | 6.2 | 8.4 | 0.9 | 4.5 | 3 | | 6.4 | 6.5 | 3.4 | 2.5 | 2.5 | | 6.6 | 6.8 | 4.5 | 3 | 4.4 | | 6.8 | 4.4 | 3.5 | 2.5 | 2.5 | | 7 | 2.5 | 4.6 | 2.6 | 3.4 | | 7.2 | 6.3 | 4.1 | 2.6 | 1.5 | | 7.4 | 4.5 | 4 | 0.9 | 2.5 | | 7.6 | 2.3 | 3.6 | 2 | 0.6 | | 7.8 | n/a | 5.7 | 1.5 | 1.2 | | 8 | 3.6 | 2.6 | 2.6 | 3.6 | | 12/24/01: |  |  |  |  | | Seed size | Soil (a) | Soil (b) | Vermiculite (a) | Vermiculite (b) | | 5.2 | 2.8 | 5.5 | 5 | 3 | | 5.4 | 4.5 | 3.5 | 4.5 | 5.1 | | 5.6 | 7.6 | 5 | 4 | 2 | | 5.8 | 4.5 | 8.5 | n/a | 5.9 | | 6 | 9 | 4.8 | 3 | 7 | | 6.2 | 11.4 | 1.9 | 6.9 | 5.8 | | 6.4 | 9.9 | 5.7 | 3 | 3.6 | | 6.6 | 9.5 | 6.5 | 5.5 | 6.7 | | 6.8 | 6.4 | 6.5 | 3.6 | 4.5 | | 7 | 4.8 | 6.5 | 4 | 6 | | 7.2 | 9.8 | 6 | 5.3 | 2.7 | | 7.4 | 7.9 | 6.5 | 2.4 | 4.1 | | 7.6 | 3.1 | 5.3 | 4 | 1.7 | | 7.8 | n/a | 7.9 | 2 | 2.9 | | 8 | 5.5 | 4.5 | 4.4 | 5.5 | | 12/25/01: |  |  |  |  | | Seed size | Soil (a) | Soil (b) | Vermiculite (a) | Vermiculite (b) | | 5.2 | 4.7 | 7 | 7 | 4.5 | | 5.4 | 8 | 6.4 | 7.6 | 6.9 | | 5.6 | 10.5 | 8.6 | 7 | 4.5 | | 5.8 | 7.9 | 11 | n/a | 10.1 | | 6 | 11.5 | 7 | 6 | 10 | | 6.2 | 14.2 | 3.3 | 10.5 | 9.5 | | 6.4 | 12.5 | 6.9 | 4.5 | 6.4 | | 6.6 | 11.7 | 10 | 8.4 | 11.1 | | 6.8 | 8.5 | 9.1 | 6.8 | 7.9 | | 7 | 7.8 | 10.1 | 7.4 | 9.5 | | 7.2 | 13 | 9.7 | 9.6 | 6.5 | | 7.4 | 11.4 | 9.8 | 5.5 | 6.6 | | 7.6 | 5.6 | 8.9 | 7.5 | 3.5 | | 7.8 | n/a | 11.5 | 3.3 | 5.6 | | 8 | 8.5 | 7.2 | 7 | 7.6 |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | 12/26/01: |  |  |  |  | | Seed size | Soil (a) | Soil (b) | Vermiculite (a) | Vermiculite (b) | | 5.2 | 7.8 | 10.4 | 8.5 | 6.5 | | 5.4 | 10.5 | 8.9 | 11.9 | 8.9 | | 5.6 | 12.1 | 10.1 | 9.5 | 7 | | 5.8 | 10.9 | 13.9 | n/a | 13 | | 6 | 15 | 8.6 | 8.6 | 12.5 | | 6.2 | 16.1 | 5.9 | 13.1 | 12.1 | | 6.4 | 15.5 | 9.6 | 6.6 | 8.3 | | 6.6 | 15.3 | 12.7 | 11.2 | 14.6 | | 6.8 | 10.5 | 12.4 | 8.8 | 10.6 | | 7 | 10.1 | 12.4 | 9.5 | 12.5 | | 7.2 | 15.9 | 12.5 | 12.5 | 9.4 | | 7.4 | 14 | 13.9 | 9 | 9.4 | | 7.6 | 8.2 | 11.5 | 11.4 | 6.4 | | 7.8 | n/a | 15 | 6 | 9 | | 8 | 11.9 | 11.1 | 11 | 9.9 | | 12/27/01: |  |  |  |  | | Seed size | Soil (a) | Soil (b) | Vermiculite (a) | Vermiculite (b) | | 5.2 | 9.4 | 11.4 | 10.1 | 8.5 | | 5.4 | 12 | 10 | 13 | 11.1 | | 5.6 | 14.7 | 13.6 | 12 | 8.5 | | 5.8 | 12.7 | 16.1 | n/a | 14 | | 6 | 15.9 | 11.4 | 10 | 15 | | 6.2 | 18.5 | 8.9 | 15.5 | 14.9 | | 6.4 | 19.4 | 14 | 7.9 | 10.5 | | 6.6 | 17.5 | 15.4 | 13.7 | 15.5 | | 6.8 | 12.5 | 15 | 8.8 | 12 | | 7 | 13 | 14.9 | 9.8 | 14.2 | | 7.2 | 17 | 14.9 | 15 | 9.9 | | 7.4 | 17.8 | 16.9 | 10 | 12 | | 7.6 | 11 | 14.6 | 13.9 | 8 | | 7.8 | n/a | 18.5 | 7 | 10.4 | | 8 | 14 | 14.6 | 13 | 13.4 | | 12/29/01: |  |  |  |  | | Seed size | Soil (a) | Soil (b) | Vermiculite (a) | Vermiculite (b) | | 5.2 | 13.7 | 14 | 13.2 | 10 | | 5.4 | 18 | 12.2 | 16.6 | 13.2 | | 5.6 | 19.4 | 14.9 | 15.1 | 8.6 | | 5.8 | 15.5 | 19.2 | n/a | 17.6 | | 6 | 20.6 | 14.5 | 13.6 | 18.2 | | 6.2 | 22.7 | 12.5 | 19.6 | 17.3 | | 6.4 | 23 | 16.3 | 11.4 | 13.6 | | 6.6 | 22.3 | 18.5 | 18.5 | 19.7 | | 6.8 | 14.5 | 19.6 | 9 | 14.9 | | 7 | 19.6 | 18.9 | 10.2 | 18.2 | | 7.2 | 21.5 | 19.7 | 19.5 | 13.4 | | 7.4 | 19.6 | 20.2 | 10.1 | 18.3 | | 7.6 | 16 | 18.4 | 16.3 | 8.7 | | 7.8 | n/a | 19.6 | 11.1 | 13.9 | | 8 | 19.5 | 20.3 | 17.8 | 17.4 | | 12/31/01: |  |  |  |  | | Seed size | Soil (a) | Soil (b) | Vermiculite (a) | Vermiculite (b) | | 5.2 | 14.1 | 17.3 | 17 | 12.7 | | 5.4 | 20.3 | 14.5 | 18.2 | 15.9 | | 5.6 | 21.2 | 16 | 18.1 | 8.7 | | 5.8 | 18.5 | 22.5 | n/a | 20.9 | | 6 | 23.5 | 17.1 | 17 | 21.4 | | 6.2 | 26 | 16.2 | 22.8 | 21.1 | | 6.4 | 25.5 | 20 | 16.2 | 16.2 | | 6.6 | 26.4 | 21.4 | 23.2 | 23.1 | | 6.8 | 17 | 24 | 9.1 | 16.1 | | 7 | 21.7 | 22.9 | 12.6 | 23.4 | | 7.2 | 25.5 | 25.6 | 23 | 17.2 | | 7.4 | 24.2 | 25.6 | 10.3 | 21.6 | | 7.6 | 21.1 | 23.6 | 20.2 | 9.1 | | 7.8 | n/a | 24.2 | 16.5 | 15.7 |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | 1/2/01: |  |  |  |  | | Seed size | Soil (a) | Soil (b) | Vermiculite (a) | Vermiculite (b) | | 5.2 | 14.5 | 19.5 | 19.5 | 15.6 | | 5.4 | 23.6 | 16.8 | 24.1 | 18.6 | | 5.6 | 23.1 | 18 | 24 | 8.9 | | 5.8 | 23.9 | 26 | n/a | 23.6 | | 6 | 27 | 21.9 | 21.9 | 24.4 | | 6.2 | 30.5 | 22 | 26.4 | 24.5 | | 6.4 | 29.3 | 24.1 | 21.1 | 19 | | 6.6 | 30 | 25.9 | 28.5 | 29.9 | | 6.8 | 21.4 | 28.5 | 9.3 | 19 | | 7 | 27.5 | 27.7 | 14 | 30 | | 7.2 | 30.5 | 30.3 | 26 | 21 | | 7.4 | 30 | 30 | 10.6 | 25.9 | | 7.6 | 26 | 28.7 | 24 | 9.5 | | 7.8 | n/a | 30 | 21.5 | 18.5 | | 8 | 27.4 | 32 | 26.2 | 27 | | 1/4/02: |  |  |  |  | | Seed size | Soil (a) | Soil (b) | Vermiculite (a) | Vermiculite (b) | | 5.2 | 15.1 | 21.5 | 20.1 | 17.5 | | 5.4 | 24 | 19 | 25.1 | 21.2 | | 5.6 | 23.6 | 21.6 | 25.5 | 9.6 | | 5.8 | 24.1 | 26.5 | n/a | 26.1 | | 6 | 27.7 | 22.9 | 23.9 | 25 | | 6.2 | 31 | 23.1 | 27.1 | 24.9 | | 6.4 | 30.4 | 24.6 | 21.5 | 19.1 | | 6.6 | 32 | 28 | 29.3 | 30 | | 6.8 | 22.5 | 29.4 | 9.5 | 19.1 | | 7 | 30.1 | 29 | 14.4 | 34.1 | | 7.2 | 32 | 33 | 28 | 23.5 | | 7.4 | 30.5 | 30.5 | 10.9 | 27.9 | | 7.6 | 27.1 | 30 | 29 | 15 | | 7.8 | n/a | 34 | 22 | 18.8 | | 8 | 27.5 | 34.5 | 28.9 | 28 | | 1/6/02: |  |  |  |  | | Seed size | Soil (a) | Soil (b) | Vermiculite (a) | Vermiculite (b) | | 5.2 | 15.9 | 21.9 | 22.1 | 17.5 | | 5.4 | 24.6 | 20 | 25.5 | 22 | | 5.6 | 24.1 | 22.4 | 26.6 | 11.4 | | 5.8 | 24.8 | 26.5 | n/a | 27.3 | | 6 | 30 | 22.9 | 26.8 | 25.9 | | 6.2 | 36 | 25.6 | 30 | 25.6 | | 6.4 | 32.6 | 27.6 | 22.1 | 19.4 | | 6.6 | 33.9 | 29.9 | 29.6 | 32.1 | | 6.8 | 23.2 | 29.7 | 11.6 | 19.4 | | 7 | 30.4 | 31.5 | 14.8 | 34.2 | | 7.2 | 38 | 35 | 28.4 | 24.4 | | 7.4 | 31 | 34.5 | 13.7 | 29.2 | | 7.6 | 29.9 | 31 | 29.3 | 16 | | 7.8 | n/a | 35 | 22.3 | 19.9 | | 8 | 29.5 | 35.9 | 29.5 | 30.7 |   Mean Growth (cm)   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  | Day | 5 S | 6 S | 7 S | 5 V | 6 V | 7 V | |  | 1 | 1.7 | 2.71 | 2.09 | 1.35 | 1.48 | 0.76 | |  | 2 | 3.175 | 4.78 | 4.17 | 2.5 | 3.03 | 1.88 | |  | 3 | 5.2375 | 7.16 | 6.42 | 3.6875 | 4.96 | 3.51 | |  | 4 | 8.0125 | 9.47 | 8.78 | 5.95 | 8.11 | 6.5 | |  | 5 | 10.575 | 12.16 | 11.35 | 8.1625 | 10.64 | 9.51 | |  | 6 | 12.4875 | 14.85 | 13.86 | 9.65 | 12.48 | 11.1 | |  | 7 | 15.8625 | 18.45 | 17.35 | 11.7875 | 15.58 | 13.97 | |  | 8 | 18.05 | 21.71 | 21.44 | 13.9375 | 18.62 | 16.96 | |  | 9 | 20.675 | 26.06 | 26.07 | 16.7875 | 22.4 | 20.1 | |  | 10 | 21.925 | 27.16 | 27.62 | 18.1375 | 22.94 | 22.36 | |  | 11 | 22.525 | 29.14 | 29.63 | 19.05 | 24.25 | 23.22 |   [[data](http://docs.google.com/data.html)][[data1](http://docs.google.com/data1.html)][[data2](http://docs.google.com/data2.html)][[data3](http://docs.google.com/data3.html)][[data4](http://docs.google.com/data4.html)][[data5](http://docs.google.com/data5.html)][[data6](http://docs.google.com/data6.html)][[data7](http://docs.google.com/data7.html)][[data8](http://docs.google.com/data8.html)][[data9](http://docs.google.com/data9.html)][[journal](http://docs.google.com/dailylog.html)]  [[Home](http://docs.google.com/home.html)][[Introduction](http://docs.google.com/introduction.html)][[Hypothesis](http://docs.google.com/hypothesis.html)][[Procedure](http://docs.google.com/procedure.html)][[Data](http://docs.google.com/data.html)][[Conclusions](http://docs.google.com/conclusions.html)][[Bilio/Links](http://docs.google.com/biblio.html)]  [[2002 Projects](http://docs.google.com/AP2002/index.html)][[2001 Projects](http://docs.google.com/index.html)][[2000 Projects](http://docs.google.com/AP2000/index.html)][[1999 Projects](http://docs.google.com/AP99/index.html)][[1998 Projects](http://docs.google.com/AP98/index.html)] |