|  |  |  |
| --- | --- | --- |
|  |  | |
| [Journal](http://docs.google.com/journal.html) | * **Materials:**  1. 7 plastic pots clean 2. 2lb bag of Vermiculite 3. nutrient supplements: Nitrogen, Phosphorous, and Potassium 4. one one-and-a-half cup measuring cup 5. one one-forth cup measuring cup 6. one bucket to mix soil 7. scissors 8. A mature spider plant (with established root system and numerous stems) 9. A hand gardening shovel 10. Distilled water 11. 250ml beaker 12. tubs to catch water lost by plant 13. ruler 14. Masking tape * **Procedure:** 1. Take the first clean pot and set it out to use. 2. Measure one-and-a-half cups of Vermiculite and put into bucket. 3. Add one-forth of a cup of blood meal (nitrogen supplement). 4. Mix thoroughly. 5. Pour approximately one-third of soil into pot. 6. Add water until moist. Set aside. 7. Water Spider Plant until soil is moist and remove entire plant from pot. 8. Split plant into large parts with common roots. 9. Make clippings of plant making sure that some of the root system stays attached. 10. Insert plant into prepared pot. 11. Add the remaining soil around plant. 12. Water plant and pack it into the soil so it is firmly in place. 13. Mark pot with masking tape. Indicate plant number (#1) and soil supplement. 14. Measure and record the length of each leaf and record. Mark each leaf with a number for recording purposes. 15. Repeat steps 1 through 14 again for plant #2. 16. Repeat steps 1 through 15 with Potassium. 17. Repeat steps 1 through 15 with Phosphorous. 18. Repeat steps 1 through 15 for the Control. Add 1/12 of each nutrient to the Vermiculite. 19. Place plants in tubs to catch drained water. 20. Water plant daily with 150ml of distilled water. 21. Measure and record the length of leaves every other day. 22. Analyze data. * **Data:** First Attempt: **Plant 1 & 2:** NITROGEN **Plant 3 & 4:** PHOSPHOROUS **Plants 5 & 6:** POTASSIUM **Plant 7:** CONTROL(all Vermiculite)  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | * PLANT | * 4-8-00 | * 4-10-00 | * 4-12-00 |  | * PLANT | * 4-8-00 | * 4-10-00 | * 4-12-00 | |  |  |  |  |  | * continued� |  |  |  | | * #1 | * 35.2 | * 36.9 | * 30.5 |  |  | * 16.2 | * 16.3 | * 16 | |  | * 29.1 | * 30 | * 34.5 |  |  | * 4.2 | * 4.2 | * 4.1 | |  | * 30.1 | * 30.4 | * 30.4 |  |  | * 3.9 | * 4.4 | * 3.6 | |  | * 39.2 | * 39.6 | * 39 |  |  | * 4.8 | * 6.7 | * 5.6 | |  | * 30.8 | * 32.8 | * 21.9 |  |  | * 4.2 | * 6 | * 5 | |  | * 20.4 | * 22 | * 21.2 |  |  | * 7 | * 6 | * 5 | |  | * 37.5 | * 38 | * 37.3 |  |  | * 4.1 | * 5.5 | * 5.5 | |  | * 29 | * 30.4 | * 30.4 |  |  |  |  |  | |  | * 38.6 | * 39.9 | * 38.6 |  | * #6 | * 51.2 | * 52.4 | * 51.1 | |  | * 16.5 | * 19.4 | * 20 |  |  | * 55.6 | * 56.6 | * 57.1 | |  | * 7 | * 8.2 | * 8.6 |  |  | * 48.1 | * 49 | * 51.1 | |  | * 19.6 | * 22.5 | * 22.1 |  |  | * 11.2 | * 13 | * 11 | |  | * 9.6 | * 12.1 | * 12 |  |  | * 11.7 | * 14.4 | * 12.1 | |  |  |  |  |  |  | * 40.1 | * 41.7 | * 37.9 | | * #2 | * 46 | * 48 | * 47.3 |  |  | * 49 | * 51.6 | * 52 | |  | * 36.3 | * 40.5 | * 38.7 |  |  | * 33.4 | * 36.6 |  | |  | * 53.1 | * 56.4 | * 52.3 |  |  | * 19.4 | * 20.3 | * 16.4 | |  | * 51.6 | * 52.9 | * 50.4 |  |  | * 25.4 | * 28.7 | * 28.2 | |  |  |  |  |  |  | * 63.1 | * 78.3 | * 75.2 | | * #3 | * 44 | * 45.5 | * 40.6 |  |  | * 8.2 | * 8.4 | * 8 | |  | * 40.1 | * 42.4 | * 40.6 |  |  | * 10.6 | * 10.6 | * 10.1 | |  | * 22.2 | * 22.3 | * 21.3 |  |  | * 6.3 | * 6.5 | * 6.6 | |  | * 14.4 | * 15 | * 14.6 |  |  | * 7.4 | * 7.7 | * 7 | |  | * 26 | * 26.3 | * 25.8 |  |  |  |  |  | |  | * 32.7 | * 33.5 | * 32 |  | * #7 | * 42.4 | * 47.9 | * 34.7 | |  | * 47.1 | * 50.9 | * 47.1 |  |  | * 29.6 | * 29.9 | * 29.1 | |  |  |  |  |  |  | * 36.1 | * 36.6 | * 36 | | * #4 | * 54 | * 54.2 | * 53.3 |  |  | * 29.4 | * 29.5 | * 28.8 | |  | * 45.9 | * 47.4 | * 46.9 |  |  | * 15.6 | * 16.5 | * 14.7 | |  | * 56.3 | * 56.9 | * 54.9 |  |  | * 35.8 | * 35.9 | * 34.6 | |  | * 16.9 | * 17 | * 17 |  |  | * 45.9 | * 46.9 | * 45.9 | |  | * 20.7 | * 21.7 | * 20.6 |  |  |  |  |  | |  | * 36.6 | * 38.1 | * 36.5 |  |  |  |  |  | |  | * 3.1 | * 4 | * 3.4 |  |  |  |  |  | |  | * 4 | * 5.9 | * 3 |  |  |  |  |  | |  | * 90.1 | * 92.2 | * 89.9 |  |  |  |  |  | |  | * 23.4 | * 23.5 | * 22 |  |  |  |  |  | |  | * 6.6 | * 8.2 | * 7.1 |  |  |  |  |  | |  | * 7.1 | * 7.5 | * 5.9 |  |  |  |  |  | |  | * 6.3 | * 7 | * 6.6 |  |  |  |  |  | |  | * 5.9 | * 7 | * 6.2 |  |  |  |  |  | |  | * 5.8 | * 7 | * 6 |  |  |  |  |  | |  |  |  |  |  |  |  |  |  | | * #5 | * 89.1 | * 92.2 | * 91.5 |  |  |  |  |  | |  | * 21.9 | * 23.2 | * 22.6 |  |  |  |  |  | |  | * 13.4 | * 14.4 | * 13.2 |  |  |  |  |  |  * [Graphs of first attempt](http://docs.google.com/graph1.html) [Pictures of first attempt](http://docs.google.com/pics1.html)    Second Attempt: **Plant 1 & 2:** NITROGEN **Plant 3 & 4:** POTASSUIM **Plants 5 & 6:** PHOSPHOROUS **Plant 7:** CONTROL(all three nutrients)  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | * Plant 1 | * date: | * 4-19-00 | * 4-21-00 | * 4-23-00 | * 4-25-00 | * 4-27-00 | * 4-29-00 | |  |  |  |  |  |  |  |  | |  | * 1 | * 46.6 | * 47.1 | * 47.4 | * 47.6 | * 49 | * 48.2 | |  | * 2 | * 54.3 | * 53.3 | * 53.5 | * 53.9 | * 56.1 | * 56 | |  | * 3 | * 38.4 | * 38.1 | * 38.8 | * 39.6 | * 40.4 | * 35 | |  | * 4 | * 52.6 | * 52.4 | * 52.2 | * 52.1 | * 52.1 | * 51.9 | |  | * 5 | * 31.9 | * 32.6 | * 33.3 | * 33.9 | * 33.6 | * 33.6 | |  | * 6 | * 43.3 | * 44.4 | * 44.7 | * 44.9 | * 44.6 | * 44.9 | |  | * 7 | * 50.7 | * 51.4 | * 51.5 | * 51.7 | * 50.6 | * 51.2 | |  | * 8 | * 13.4 | * 14.1 | * 14.1 | * 14.2 | * 14.5 | * 14.6 | |  | * 9 | * 42.2 | * 42.2 | * 42.3 | * 42.5 | * 41.9 | * 40 | |  | * 10 | * 21.7 | * 22.7 | * 22.4 | * 22.2 | * 22.3 | * 22.6 | |  | * 11 | * 54.3 | * 56.5 | * 56.7 | * 54.1 | * 55.2 | * 55.7 | |  | * 12 | * 50 | * 50.1 | * 50.1 | * 50.1 | * 58.6 | * 59 | |  | * 13 | * 9.9 | * 11.5 | * 11.5 | * 11.6 | * 11.7 | * 12.5 | |  | * 14 | * 7.2 | * 6.5 | * 6.7 | * 7 | * 8.1 | * 8.4 | |  | * 15 | * 7.3 | * 7.6 | * 8.2 | * 8.5 | * 6.4 | * 6.5 | |  | * 16 | * 8.4 | * 9.4 | * 9.6 | * 10 | * 10 | * 11 | |  | * stem | * 65.3 | * 66.1 | * 65.2 | * 64.5 | * 65.1 | * 65.4 | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | * Plant 2 | * date: | * 4-19-00 | * 4-21-00 | * 4-23-00 | * 4-25-00 | * 4-27-00 | * 4-29-00 | |  |  |  |  |  |  |  |  | |  | * 1 | * 57.9 | * 57.4 | * 58.2 | * 59.6 | * 60.1 | * 60.4 | |  | * 2 | * 58.1 | * 57 | * 56.9 | * 56.7 | * 58.2 | * 58.5 | |  | * 3 | * 37.1 | * 37.1 | * 37.2 | * 37.5 | * 38.1 | * 38.1 | |  | * 4 | * 41.9 | * 42.2 | * 44.1 | * 46.2 | * 42.5 | * 42.7 | |  | * 5 | * 15.8 | * 15.9 | * 15.9 | * 15.9 | * 16.1 | * 14 | |  | * 6 | * 28.7 | * 28.9 | * 29 | * 29.1 | * 30 | * 28 | |  | * 7 | * 41.3 | * 44.5 | * 45.4 | * 46.1 | * 46.7 | * 45 | |  | * 8 | * 59.5 | * 59.2 | * 59.4 | * 59.9 | * 60.1 | * 60 | |  | * 9 | * 46.7 | * 47.1 | * 47.2 | * 47.4 | * 48.9 | * 48 | |  | * 10 | * 15 | * 15.5 | * 15.5 | * 15.4 | * 15.4 | * 15.4 | |  | * 11 | * 11.7 | * 13 | * 12.9 | * 12.6 | * 13.5 | * 13.1 | |  | * 12 | * 56.6 | * 56.1 | * 56.4 | * 56.5 | * 56.7 | * 55.7 | |  | * 13 | * 40.1 | * 39 | * 40.2 | * 40.6 | * 41.6 | * 40.5 | |  | * 14 | * 50.1 | * 49.7 | * 51.1 | * 52.4 | * 51.3 | * 52.1 | |  | * 15 | * 59 | * 58.4 | * 58.7 | * 58.9 | * 58.5 | * 58.1 | |  | * 16 | * 33.2 | * 30.6 | * 32.5 | * 33.1 | * 33.3 | * 33.2 | |  | * 17 | * 7.9 | * 9.1 | * 9.7 | * 10.1 | * 10.9 | * 10.3 | |  | * stem 1 | * 25.4 | * 25.7 | * 26.1 | * 26.6 | * 27.8 | * 27.6 | |  | * 18 | * 6.7 | * 7.2 | * 7.2 | * 7.3 | * 7 | * 7 | |  | * stem 2 | * 66.4 | * 66.5 | * 66.8 | * 67.1 | * 66.7 | * 67.5 | |  | * stem 3 | * 23.6 | * 24.1 | * 24.6 | * 25 | * 23.7 | * 23.5 | |  | * 19 | * 15.3 | * 15.2 | * 15 | * 14.9 | * 15 | * 15.1 | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | * Plant 3 | * date: | * 4-19-00 | * 4-21-00 | * 4-23-00 | * 4-25-00 | * 4-27-00 | * 4-29-00 | |  |  |  |  |  |  |  |  | |  | * 1 | * 30.7 | * 30.2 | * 30.9 | * 31.8 | * 32.5 | * 31.6 | |  | * 2 | * 38.6 | * 39.9 | * 39.5 | * 39.1 | * 40.6 | * 41 | |  | * 3 | * 47.1 | * 57.8 | * 55.6 | * 48.9 | * 48 | * 48.9 | |  | * 4 | * 57.2 | * 58.4 | * 58.3 | * 58 | * 58.7 | * 59.5 | |  | * 5 | * 25.5 | * 27.7 | * 27 | * 26.7 | * 27 | * 27.1 | |  | * 6 | * 59.6 | * 60.1 | * 59.4 | * 59.1 | * 59.4 | * 60.1 | |  | * 7 | * 32.4 | * 33.9 | * 33.7 | * 33.1 | * 34.2 | * 34.4 | |  | * 8 | * 12.9 | * 13.5 | * 13.9 | * 14.5 | * 13.9 | * 13.5 | |  | * stem 1 | * 17.1 | * 18.5 | * 18.9 | * 19.5 | * 19.4 | * 19.4 | |  | * stem 2 | * 56.1 | * 56 | * 57.6 | * 60.6 | * 59 | * 59.6 | |  | * 9 | * 9.6 | * 9.6 | * 9.6 | * 9.8 | * 10.1 | * 10 | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | * Plant 4 | * date: | * 4-19-00 | * 4-21-00 | * 4-23-00 | * 4-25-00 | * 4-27-00 | * 4-29-00 | |  |  |  |  |  |  |  |  | |  | * 1 | * 40.7 | * 40.6 | * 40.8 | * 41.1 | * 41.6 | * 40.5 | |  | * 2 | * 26.3 | * 26.9 | * 26.7 | * 26.6 | * 27 | * 27 | |  | * 3 | * 31.4 | * 32.4 | * 32.8 | * 33.2 | * 33 | * 32.7 | |  | * 4 | * 51.7 | * 51.7 | * 51.9 | * 52.2 | * 52.2 | * 52.6 | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | * Plant 5 | * date: | * 4-19-00 | * 4-21-00 | * 4-23-00 | * 4-25-00 | * 4-27-00 | * 4-29-00 | |  |  |  |  |  |  |  |  | |  | * 1 | * 6.3 | * 6.6 | * 6.9 | * 7.4 | * 7.1 | * 7.7 | |  | * 2 | * 15.7 | * 15.7 | * 16 | * 16.1 | * 15.6 | * 15.5 | |  | * 3 | * 26.9 | * 27.6 | * 27.6 | * 27.5 | * 27.9 | * 28.1 | |  | * 4 | * 63.2 | * 63.6 | * 63.8 | * 64 | * 62.6 | * 64.1 | |  | * 5 | * 41.6 | * 41.6 | * 41.4 | * 41.3 | * 40.5 | * 42.4 | |  | * 6 | * 59.2 | * 60 | * 60 | * 60.1 | * 60.2 | * 59.5 | |  | * 7 | * 30.1 | * 31 | * 31.4 | * 31.6 | * 31.5 | * 31.7 | |  | * 8 | * 49.5 | * 49.9 | * 49.6 | * 49.2 | * 49 | * 49 | |  | * 9 | * 34.3 | * 35.6 | * 35.6 | * 35.6 | * 34.8 | * 35.9 | |  | * 11 | * 9.1 | * 9.5 | * 10.8 | * 11.1 | * 12.6 | * 12.4 | |  | * 12 | * 6.4 | * 6 | * 7.9 | * 9.9 | * 10.5 | * 10.1 | |  | * 13 | * 5.9 | * 7.1 | * 7.1 | * 7.2 | * 7.9 | * 7.9 | |  | * 14 | * 8.5 | * 8.3 | * 8.1 | * 8 | * 7.8 | * 8 | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | * Plant 6 | * date: | * 4-19-00 | * 4-21-00 | * 4-23-00 | * 4-25-00 | * 4-27-00 | * 4-29-00 | |  |  |  |  |  |  |  |  | |  | * 1 | * 43.3 | * 45.6 | * 46.2 | * 47.1 | * 45.9 | * 46.8 | |  | * 2 | * 62.7 | * 62.8 | * 61.9 | * 61.2 | * 61.2 | * 61 | |  | * 3 | * 58.1 | * 60.1 | * 60.8 | * 61.9 | * 63.9 | * 62 | |  | * 4 | * 63.4 | * 64.4 | * 64.3 | * 64.1 | * 65.2 | * 63 | |  | * 5 | * 56.9 | * 67.6 | * 62.1 | * 56.3 | * 57.7 | * 57 | |  | * 6 | * 36 | * 38.4 | * 38.8 | * 39.5 | * 39.8 | * 39.8 | |  | * 7 | * 31.9 | * 33.9 | * 34.2 | * 34.4 | * 35.3 | * 35.4 | |  | * 8 | * 43.4 | * 43.1 | * 44.2 | * 44.7 | * 44.6 | * 44.6 | |  | * 9 | * 26.4 | * 27.4 | * 28.1 | * 28.5 | * 28.5 | * 29 | |  | * 10 | * 6.9 | * 8.2 | * 8.5 | * 8.7 | * 8.4 | * 8 | |  | * 11 | * 14.2 | * 16 | * 16.4 | * 16.9 | * 16.5 | * 16.4 | |  | * 12 | * 8.1 | * 10.1 | * 11.6 | * 14.4 | * 14.1 |  | |  | * 13 | * 7.7 | * 10.1 | * 10.9 | * 11.5 | * 11.3 |  | |  | * stem 1 | * 69.8 | * 77.1 | * 75.4 | * 72.3 | * 72.7 | * 71.9 | |  | * 14 | * 12.9 | * 14.5 | * 14.3 | * 14.3 | * 14.2 | * 14 | |  | * stem 2 | * 19 | * 19 | * 19 | * 19 | * 18.7 | * 18.3 | |  | * 15 | * 7.6 | * 7.8 | * 7.8 | * 7.8 |  |  | |  | * stem 3 | * 10.7 | * 10.5 | * 10.5 | * 10.5 | * 10.4 | * 10 | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | | * Plant 7 | * date: | * 4-19-00 | * 4-21-00 | * 4-23-00 | * 4-25-00 | * 4-27-00 | * 4-29-00 | |  |  |  |  |  |  |  |  | |  | * 1 | * 44.4 | * 42.1 | * 43.6 | * 45 | * 44.4 | * 43.8 | |  | * 2 | * 57.4 | * 59.6 | * 59.5 | * 59.4 | * 59.1 | * 58.9 | |  | * 3 | * 30.9 | * 31.6 | * 31.4 | * 30.9 | * 31.1 | * 31.1 | |  | * 4 | * 55.6 | * 56.9 | * 57.5 | * 57.4 | * 57.1 | * 57.6 | |  | * 5 | * 42.3 | * 39 | * 40.8 | * 41.1 | * 39.5 | * 41 | |  | * 6 | * 56 | * 56 | * 56.7 | * 57.4 | * 56.1 | * 55.9 | |  | * 7 | * 13.4 | * 15 | * 15 | * 15 | * 15.4 | * 16.1 | |  | * 8 | * 33.9 | * 35.4 | * 39.1 | * 45.8 | * 46.1 | * 45.3 | |  | * 9 | * 55.7 | * 56.8 | * 57.3 | * 58.1 | * 56.1 | * 56 | |  | * 10 | * 36.9 | * 38.2 | * 45.1 | * 48.2 | * 47.8 | * 47.6 | |  | * 11 | * 45 | * 46.7 | * 48.2 | * 50.4 | * 49.8 | * 48 | |  | * 12 | * 7.8 | * 8.9 | * 9.4 | * 9.5 | * 10 | * 9.5 | |  | * stem 1 | * 25 | * 26 | * 26.3 | * 26.8 | * 27.5 | * 26 | |  | * 13 | * 6.1 | * 6.7 | * 7.4 | * 7.9 | * 6.6 | * 6.6 | |  | * stem 2 | * 75.9 | * 76.1 | * 76.1 | * 76.1 | * 76.1 | * 76.4 | |  | * 14 | * 14.2 | * 14.1 | * 14.1 | * 14 |  |  | |  | * stem 3 | * 18.8 | * 18.8 | * 19.1 | * 19.3 | * 18.5 | * 18 | |  | * stem 4 | * 16.9 | * 16.7 | * 16.6 | * 16.2 |  |  | |  | * 15 | * 9.1 | * 9.1 | * 9.4 | * 10 | * 9.5 | * 9 | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  * [Graphs of Second Attempt](http://docs.google.com/graph2.html) [Beginning pictures of second attempt](http://docs.google.com/pics2.html) [Final Pictures of second attempt](http://docs.google.com/pics3.html)  Overall Change calculated by day11 (4-29-00) minus day1 (4-19-00).  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  | * **plant 1** | * **plant2** | * **plant 3** | * **plant 4** | * **plant 5** | * **plant6** | * **plant 7** | |  |  |  |  |  |  |  |  | |  | * 1.6 | * 2.5 | * 0.9 | * -0.2 | * 1.4 | * 3.5 | * -0.6 | |  | * 1.7 | * 0.4 | * 2.4 | * 0.7 | * -0.2 | * -1.7 | * 1.5 | |  | * -3.4 | * 1 | * 1.8 | * 1.3 | * 1.2 | * 3.9 | * 0.2 | |  | * -0.7 | * 0.8 | * 2.3 | * 1.1 | * 0.9 | * -0.4 | * 2 | |  | * 1.7 | * -1.8 | * 0.5 |  | * 0.8 | * 0.1 | * -1.3 | |  | * 1.6 | * -0.7 | * 2 |  | * 0.3 | * 3.8 | * -0.1 | |  | * 0.5 | * 3.7 | * 0.6 |  | * 1.6 | * 3.5 | * 2.7 | |  | * 1.2 | * 0.5 | * 3.5 |  | * -0.5 | * 1.2 | * 11.4 | |  | * -2.2 | * 3.3 | * 3.5 |  | * 1.6 | * 2.6 | * 0.3 | |  | * 0.9 | * 0.4 | * 0.4 |  | * 3.3 | * 1.1 | * 10.7 | |  | * 1.4 | * 1.4 |  |  | * 3.7 | * 2.2 | * 3 | |  | * 9 | * 1.1 |  |  | * 2 | * 6 | * 1.7 | |  | * 2.6 | * 0.4 |  |  | * -0.5 | * 3.6 | * 1 | |  | * 1.2 | * 2 |  |  |  | * 2.1 | * 0.5 | |  | * -0.8 | * -0.9 |  |  |  | * 1.1 | * 0.5 | |  | * 2.6 | * 0 |  |  |  | * -0.7 | * -0.2 | |  | * 0.1 | * 2.4 |  |  |  | * 0.2 | * -0.8 | |  |  | * 2.2 |  |  |  |  | * -0.7 | |  |  | * 0.3 |  |  |  |  | * -0.1 | |  |  | * 1.1 |  |  |  |  |  | |  |  | * -0.1 |  |  |  |  |  | |  |  | * -0.2 |  |  |  |  |  | |  |  |  |  |  |  |  |  | | * **TOTAL:** | * **19** | * **19.8** | * **17.9** | * **2.9** | * **15.6** | * **32.1** | * **31.7** | |  |  |  |  |  |  |  |  | | * **AVERAGE** |  |  |  |  |  |  |  | | * **CHANGE PER LEAF:** | * **1.117** | * **0.9** | * **1.79** | * **0.725** | * **1.2** | * **1.89** | * **1.67** |  * [Graphs of Overall Change](http://docs.google.com/graph3.html) | |
|  | |