**Gypsy test with SLS data**

This document summarizes the results of tests on SLS stands using 1) Gypsy excel version (this is the Alberta govt version), 2) Gypsy with correction factor until the end (simulation\_choice = ‘no’) for Aspen (Aw), and Gypsy with correction factor until data when data was taken (simulation\_choice = ‘yes) for the other species. This solution emerged from previous tests.

The main variable assessed will be basal area over 250 years (stand age). Basal area is the main variable to calculate other important variables such as merchantable variables. If the basal area behavior is acceptable, the behavior of other variables will be too.

Test:

Observations:

* This alternative produced strange results for very young plots (tage<25 years). However, these plots will not be analyzed. Shogming stated that Gypsy produce unreliable results for these plots.
* In general, the code works fine. One can notice small discrepancies in particular in young plots, where small differences in the beginning end up compounding along time.

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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 200510 | 0.79 | 22.69 |  |  |  |  | 12.33 | 17 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
| 108.13 | 108.13 |  |  |  |  | 1693.99 | 1723.48 |  |

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| --- | --- |
| Simulation type | Growth curve |
| Excel |  |
|  | ASPEN did not converge in this case – plot too young |

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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 200863 | 1.83 | 37.59 |  |  |  |  | 14.78 | 24 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
| 160 | 160.07 |  |  |  |  | 1294.21 | 1322.41 |  |

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| Simulation type | Growth curve |
| Excel |  |
|  |  |
| OBS | Aspen is a little higher than the excel gypsy – Plot, relatively young |

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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 359668 |  |  |  |  |  |  | 16.38 | 22 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
|  |  |  |  |  |  | 1085.01 | 1097.0 |  |

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| Simulation type | Growth curve |
| Excel |  |
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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 508159 | 28.88 | 120 | 14.44 | 81 |  |  | 14.44 | 105 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
| 730 | 42143 | 365 | 534 |  |  | 365 | 5688 |  |

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| Simulation type | Growth curve |
| Excel |  |
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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 587494 | 6.22 | 120 | 2.66 | 87 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
| 102 | 115 | 44 | 44 |  |  |  |  |  |

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| Simulation type | Growth curve |
| Excel |  |
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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 587653 | 3.51 | 11 | 2.49 | 16.9 |  |  | 3.23 | 12.3 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
| 252 | 252 | 180 | 180 |  |  | 232 | 233 |  |

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| Simulation type | Growth curve |
| Excel |  |
|  |  |
| OBS | This is the youngest plot – Aspen goe unrealistic high. But if should not be anayzed, anyway. |

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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 587675 | 3.43 | 14 | 3.34 | 20 |  |  | 2.50 | 14.6 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
| 207 | 207 |  | 201 | 201 |  | 151 | 151 |  |

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| Simulation type | Growth curve |
| Excel |  |
|  |  |
| OBS | This is also one of the youngest plots – Aspen goes unrealistic high. But if should not be anayzed, anyway. |

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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 612945 |  |  | 0.77 | 77 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
|  |  | 8.88 | 8.88 |  |  |  |  |  |

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| Simulation type | Growth curve |
| Excel |  |
|  |  |
| OBS | Check why this plot has no excel data |

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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 613015 |  |  | 27.94 | 148 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
|  |  | 483 | 523 |  |  |  |  |  |

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| Simulation type | Growth curve |
| Excel |  |
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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 613223 |  |  | 17 | 70 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
|  |  | 485 | 494 |  |  |  |  |  |

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| Simulation type | Growth curve |
| Excel |  |
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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 613550 |  |  | 8.55 | 45 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
|  |  | 537 | 541 |  |  |  |  |  |

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| Simulation type | Growth curve |
| Excel |  |
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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 673537 | 11.15 | 74 | 3.71 | 65 |  |  | 2.83 | 56 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
| 979 | 4316 | 326 | 342 |  |  | 248 | 251 |  |

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| Simulation type | Growth curve |
| Excel |  |
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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 763406 | 2.60 | 33 | 1.77 | 39 |  |  | 1.54 | 27 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
| 167 | 167 | 114 | 114 |  |  | 99 | 99 |  |

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| Simulation type | Growth curve |
| Excel |  |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 888936 | 10.42 | 50 | 3.58 | 50 |  |  | 2.3 | 39 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
| 1162 | 2045 | 400 | 412 |  |  | 254 | 255 |  |

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| Simulation type | Growth curve |
| Excel |  |
|  |  |
| OBS | The small discrepancy in SW could potentially be explained by that step, which resulted from tolerance level during iterations. One could reduce the tolerance level… |

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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 894583 | 7.03 | 75 | 3.67 | 64 |  |  | 0.8 | 59 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
| 299 | 387 | 157 | 158 |  |  | 34 | 34 |  |

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| Simulation type | Growth curve |
| Excel |  |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 942300 | 29 | 120 | 2 | 83 |  |  | 8.85 | 105 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
| 651 | 27701 | 44 | 45 |  |  | 196 | 257 |  |

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| Simulation type | Growth curve |
| Excel |  |
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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 965296 |  |  |  |  |  |  | 42 | 159 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
|  |  |  |  |  |  | 1031 | 13661 |  |

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| Simulation type | Growth curve |
| Excel |  |
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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 1008174 |  |  | 17.78 | 100 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
|  |  | 733 | 769 |  |  |  |  |  |

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| Simulation type | Growth curve |
| Excel |  |
|  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 1008198 |  |  | 3.26 | 38 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
|  |  | 1664 | 1694 |  |  |  |  |  |

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| Simulation type | Growth curve |
| Excel |  |
|  |  |
| OBS | Discrepancy due to the step? |

|  |  |  |  |  |  |  |  |  |
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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 1049300 | 0.85 | 56 | 2.21 | 45 |  |  | 14 | 37 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
| 161 | 162 | 418 | 423 |  |  | 2638 | 3435 |  |

|  |  |
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| Simulation type | Growth curve |
| Excel |  |
|  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 1082523 | 1.27 | 45 | 2.02 | 38 |  |  | 9.37 | 31 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
| 106 | 106 | 170 | 170 |  |  | 786 | 798 |  |

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| Simulation type | Growth curve |
| Excel |  |
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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 1124920 |  |  | 21 | 127 |  |  | 30 | 250 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
|  |  | 304 | 317 |  |  | 438 | 14673 |  |

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| Simulation type | Growth curve |
| Excel |  |
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|  |  |  |  |  |  |  |  |  |
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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 1124928 |  |  | 15.4 | 125 |  |  | 25 | 250 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
|  |  | 212.5 | 217.5 |  |  | 346 | 11234 |  |

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| Simulation type | Growth curve |
| Excel |  |
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|  |  |  |  |  |  |  |  |  |
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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 1168535 |  |  | 2.48 | 57 |  |  | 13.02 | 50 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
|  |  | 237 | 238 |  |  | 1244 | 1473 |  |

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| Simulation type | Growth curve |
| Excel |  |
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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 1168551 |  |  |  |  |  |  | 14.31 | 33 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
|  |  |  |  |  |  | 895 | 914 |  |

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| Simulation type | Growth curve |
| Excel |  |
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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 1168775 |  |  |  |  |  |  | 12.6 | 19 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
|  |  |  |  |  |  | 813 | 816 |  |

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| Simulation type | Growth curve |
| Excel |  |
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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 1168955 |  |  |  |  |  |  | 3.45 | 250 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
|  |  |  |  |  |  | 26 | 106 |  |

|  |  |
| --- | --- |
| Simulation type | Growth curve |
| Excel |  |
| ‘no’ |  |
| ‘yes’ |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 1275880 | 1.72 | 21 |  |  |  |  | 0.43 | 20 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
| 106 | 106 |  |  |  |  | 26.5 | 26.5 |  |

|  |  |
| --- | --- |
| Simulation type | Growth curve |
| Excel |  |
| ‘no’ |  |
| ‘yes’ |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 1300922 |  |  | 4.78 | 57 |  |  | 16 | 51 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
|  |  | 332 | 334 |  |  | 1112 | 1313 |  |

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| Simulation type | Growth curve |
| Excel |  |
|  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 1379023 | 40 | 120 |  |  |  |  | 18.8 | 99 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
| 865 | 29669 |  |  |  |  | 407 | 3992 |  |

|  |  |
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| Simulation type | Growth curve |
| Excel |  |
|  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 1379036 | 7.95 | 156 | 7.45 | 102 |  |  | 34.27 | 145 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
| 134 | 315 | 126 | 128 |  |  | 578 | 6265 |  |

|  |  |
| --- | --- |
| Simulation type | Growth curve |
| Excel |  |
|  |  |
| OBS | The straight lines in Aspen (excel) do not seem realistic |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 1469517 |  | 41 | 0.55 |  |  |  | 1.66 | 35 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
|  |  | 63 | 63 |  |  | 190 | 190 |  |

|  |  |
| --- | --- |
| Simulation type | Growth curve |
| Excel |  |
|  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 1503518 |  |  |  |  |  |  | 15.17 | 108 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
|  |  |  |  |  |  | 339 | 388 |  |

|  |  |
| --- | --- |
| Simulation type | Growth curve |
| Excel |  |
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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 1530588 |  |  | 1.84 | 38 |  |  | 7.38 | 30 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
|  |  | 99 | 99 |  |  | 397 | 398 |  |

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| Simulation type | Growth curve |
| Excel |  |
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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 1541972 |  |  |  |  |  |  | 4.52 | 26 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
|  |  |  |  |  |  | 892 | 905 |  |

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| Simulation type | Growth curve |
| Excel |  |
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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 1542128 |  |  | 0.4 | 21 |  |  | 5.34 | 17 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
|  |  | 36 | 36 |  |  | 482 | 483 |  |

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| Simulation type | Growth curve |
| Excel |  |
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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 1594749 |  |  | 16.15 | 222 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
|  |  | 250 | 266 |  |  |  |  |  |

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| Simulation type | Growth curve |
| Excel |  |
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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 1613773 | 1.85 | 110 | 10.5 | 78 |  |  | 18.54 | 86 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
| 49 | 290 | 279 | 51 |  |  | 493 | 608 |  |

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| Simulation type | Growth curve |
| Excel |  |
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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 1614385 | 15.14 | 53 |  |  |  |  | 2.46 | 41 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
| 922 | 1527 |  |  |  |  | 150 | 150 |  |

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| Simulation type | Growth curve |
| Excel |  |
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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 1614424 | 7.2 | 41 | 1.09 | 45 |  |  | 2.6 | 32 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
| 817 | 964 | 124 | 124 |  |  | 297 | 298 |  |

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| Simulation type | Growth curve |
| Excel |  |
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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 1614860 | 23.49 | 89 | 3.1 | 70 |  |  | 4.32 | 72 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
| 496 | 2859 | 65 | 65 |  |  | 91 | 92 |  |

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| Simulation type | Growth curve |
| Excel |  |
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| Plot ID | BA\_Aw | Tage\_Aw | BA\_Sw | Tage\_Sw | BA\_Sb | Tage\_Sb | BA\_Pl | Tage\_Pl |
| 1841096 | 5.25 | 119 | 4.45 | 84 |  |  | 31 | 99 |
|  |  |  |  |  |  |  |  |  |
| N\_Aw | N0\_Aw | N\_Sw | N0\_Sw | N\_Sb | N0\_Sb | N\_Pl | N0\_Pl |  |
| 114 | 131 | 97 | 98 |  |  | 671 | 1886 |  |

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| --- | --- |
| Simulation type | Growth curve |
| Excel |  |
|  |  |
| OBS | Here too, the behavior of Aspen (excel) does not seem realistic. |