

### Additional file 3

Table S2 contains estimates of the fixed effects for variance level of harvest weight, length, depth, and width, obtained from the reduced model with main fixed effects (not the interactions) and random effects

**Table S2** Estimates of fixed effects for variance level of harvest weight, length, depth, and width

| Effect |      | Variance level of HW |       |                       | Variance level of length |       |          | Variance level of depth |       |          | Variance level of width |       |          |
|--------|------|----------------------|-------|-----------------------|--------------------------|-------|----------|-------------------------|-------|----------|-------------------------|-------|----------|
|        |      | Estimate             | SE    | Fraction <sup>a</sup> | Estimate                 | SE    | Fraction | Estimate                | SE    | Fraction | Estimate                | SE    | Fraction |
| Sex    | F    | 0.0                  | 0.0   | 1.0                   | 0.0                      | 0.0   | 1.0      | 0.0                     | 0.0   | 1.0      | 0.0                     | 0.0   | 1.0      |
|        | M    | 0.558                | 0.036 | 1.747                 | 0.224                    | 0.078 | 1.252    | 0.229                   | 0.036 | 1.257    | 0.181                   | 0.035 | 1.198    |
| Batch  | 2009 | -0.605               | 0.231 | 0.546                 | -0.033                   | 0.192 | 0.968    | -0.318                  | 0.191 | 0.728    | -0.353                  | 0.195 | 0.703    |
|        | 2010 | 0.0                  | 0.0   | 1.0                   | 0.0                      | 0.0   | 1.0      | 0.0                     | 0.0   | 1.0      | 0.0                     | 0.0   | 1.0      |
|        | 2011 | 0.255                | 0.115 | 1.290                 | 0.081                    | 0.103 | 1.084    | 0.017                   | 0.103 | 1.017    | 0.095                   | 0.104 | 1.099    |
| Pond   | 1    | 0.0                  | 0.0   | 1.0                   | 0.0                      | 0.0   | 1.0      | 0.0                     | 0.0   | 1.0      | 0.0                     | 0.0   | 1.0      |
|        | 2    | -0.376               | 0.049 | 0.687                 | -0.163                   | 0.047 | 0.791    | -0.112                  | 0.045 | 0.894    | -0.167                  | 0.048 | 0.846    |
| age    |      | 0.008                | 0.001 | 1.008                 | 0.001                    | 0.001 | 1.001    | 0.003                   | 0.001 | 1.003    | 0.004                   | 0.001 | 1.004    |

<sup>a</sup>Exponent of the estimate