

### Phenotypes of B73 and Mo17 Oat Maize Addition lines in Starter and/or Sun II oat backgrounds

| Added maize chromosome | OMA line no. | Oat x Maize cross                       | Phenotype compared to oat parent <sup>a</sup>                             |
|------------------------|--------------|---|---|
| 0                      |              | Starter oat parent<br>Sun II oat parent | Earlier heading, shorter stature oat<br>Later heading, taller stature oat |
| 1                      | 1.36*        | Sun II x B73                            | Thicker stems, upright leaves, compact panicles, later heading            |
| 2                      | 2.51*        | Starter x B73                           | Shorter plants, later heading   |
|                        | 2.48*        | Starter x Mo17                          | Shorter plants, later heading   |
|                        | 2.61         | Sun II x B73                            | Much smaller plants, later heading, few seeds                             |
|                        | 2.60         | Sun II x Mo17                           | Much smaller seeds, later heading, few seeds                              |
| 3                      | U6855-1 F1*  | Sun II x Mo17                           | Non-fertile, DNA only   |
|                        | 3.01         | Sun II X Seneca 60                      | Liguleless, crooked peduncle, compact panicles, aerial axillary buds      |
| 4                      | 4.43*        | Starter x B73                           | Smaller plant, early leaf senescence                                      |
|                        | 4.42*        | Sun II x Mo17                           | Fewer, mostly smaller tillers   |
| 5                      | 5.60*        | Sun II x B73                            | Later heading   |
|                        | 5.61*        | Sun II x Mo17                           | Later heading   |
| 6                      | 6.33         | Starter x B73                           | Heavy leaf necrosis, degree varies among sibs                             |
|                        | 6.31*        | Starter x Mo17                          | Light leaf necrosis, degree varies among sibs                             |
|                        | 6.34*        | Sun II x B73                            | Heavy leaf necrosis, degree varies among sibs                             |
|                        | 6.36         | Sun II x Mo17                           | Heavy leaf necrosis, degree varies among sibs                             |
| 7                      | W6608-2 F1*  | Starter x Mo17                          | Non-fertile, DNA only   |
|                        | 7.06         | Starter x Seneca 60                     | Smaller plant, later heading  |
| 8                      | 8.05*        | Sun II x B73                            | Smaller plants, early leaf senescence                                     |
|                        | 8.06*        | Starter x Mo 17                         | Smaller plants, early leaf senescence                                     |
| 9                      | 9.41*        | Starter x B73                           | Short plants, compact panicles, erratic premature plant senescence        |
| 10                     | 10.26*       | Starter x B73                           | Shorter, later plants; some sibs quite small                              |
|                        | 10.23*       | Starter x Mo17                          | Shorter, later plants   |

<sup>a</sup>Almost all OMAs have reduced fertility with less than full transmission of the maize chromosome

<sup>b</sup>OMA lines supplied upon requests for sets of B73 and/or Mo17 OMAs