**Supporting Information**

**Genetic Basis for Variation in Wheat Grain Yield in Response to Varying Nitrogen Application**

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**S1 Table. Heritability analysis of the sites for grain yield (GY, kg ha-1) at varying nitrogen (N) treatments**

|  |  |  |
| --- | --- | --- |
| **Site** | **N treatment**  **(kg ha-1)** | **Heritability** |
| LAM 12 | 18 | 0.00 |
| LAM 12 | 52 | 0.18 |
| LAM 12 | 87 | 0.26 |
| PIN 11 | 0 | 0.75 |
| PIN 11 | 75 | 0.90 |
| PIN 11 | 150 | 0.87 |
| PIN 12 | 0 | 0.56 |
| PIN 12 | 75 | 0.71 |
| PIN 12 | 150 | 0.56 |
| YAN 11 | 0 | 0.50 |
| YAN 11 | 75 | 0.33 |
| YAN 11 | 150 | 0.39 |
| ED 13 | 0 | 0.71 |
| ED 13 | 60 | 0.78 |
| WH 13 | 0 | 0.73 |
| WH 13 | 35 | 0.78 |