RIL - Yield check contrasts for all genotypes and phenotype combinations with relevant summary statistics.

| **Test namea** | **phenob** | **contrastc** | **estimated** | **SEe** | **dff** | **t.ratio** | **p.value** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Jay Test 1 | Maturity Date | LMN09-119 - Checks | -2.88 | 0.80 | 54.86 | -3.61 | 0.01 |
| N09-09 - Checks | -0.51 | 0.80 | 54.86 | -0.64 | 1.00 |
| N18-1572 - Checks | -3.29 | 0.80 | 54.86 | -4.13 | 0.00 |
| N18-1595 - Checks | -2.88 | 0.80 | 54.86 | -3.61 | 0.01 |
| N18-1604 - Checks | -2.29 | 0.80 | 54.86 | -2.87 | 0.09 |
| N18-1620 - Checks | -1.98 | 0.80 | 54.86 | -2.48 | 0.24 |
| N18-1632-1 - Checks | -1.94 | 0.80 | 54.86 | -2.43 | 0.27 |
| N18-1632-2 - Checks | -1.76 | 0.80 | 54.86 | -2.21 | 0.42 |
| N18-1635 - Checks | -1.27 | 0.81 | 60.66 | -1.56 | 0.90 |
| N18-1641 - Checks | -0.63 | 0.80 | 54.86 | -0.79 | 1.00 |
| N18-1674 - Checks | -1.86 | 0.80 | 54.86 | -2.33 | 0.33 |
| N18-1682 - Checks | -2.10 | 0.80 | 54.86 | -2.63 | 0.17 |
| N18-1731 - Checks | -2.20 | 0.80 | 54.86 | -2.75 | 0.13 |
| N18-1751 - Checks | -2.31 | 0.80 | 54.86 | -2.90 | 0.09 |
| N18-1763 - Checks | -1.92 | 0.80 | 54.86 | -2.41 | 0.28 |
| N18-1855 - Checks | -0.90 | 0.80 | 54.86 | -1.13 | 0.99 |
| N18-1956 - Checks | 0.34 | 0.81 | 60.66 | 0.42 | 1.00 |
| Height (inches) | LMN09-119 - Checks | 4.13 | 1.33 | 54.04 | 3.10 | 0.05 |
| N09-09 - Checks | 3.98 | 1.33 | 54.04 | 2.98 | 0.07 |
| N18-1572 - Checks | 3.25 | 1.33 | 54.04 | 2.44 | 0.27 |
| N18-1595 - Checks | 0.89 | 1.33 | 54.04 | 0.67 | 1.00 |
| N18-1604 - Checks | 1.87 | 1.33 | 54.04 | 1.40 | 0.95 |
| N18-1620 - Checks | 0.77 | 1.33 | 54.04 | 0.58 | 1.00 |
| N18-1632-1 - Checks | 2.52 | 1.33 | 54.04 | 1.89 | 0.68 |
| N18-1632-2 - Checks | 1.29 | 1.33 | 54.04 | 0.97 | 1.00 |
| N18-1635 - Checks | 2.99 | 1.33 | 54.04 | 2.25 | 0.39 |
| N18-1641 - Checks | 0.85 | 1.33 | 54.04 | 0.64 | 1.00 |
| N18-1674 - Checks | 2.61 | 1.33 | 54.04 | 1.96 | 0.62 |
| N18-1682 - Checks | 2.24 | 1.33 | 54.04 | 1.68 | 0.83 |
| N18-1731 - Checks | 5.34 | 1.33 | 54.04 | 4.01 | 0.00 |
| N18-1751 - Checks | -1.43 | 1.33 | 54.04 | -1.07 | 1.00 |
| N18-1763 - Checks | 2.37 | 1.33 | 54.04 | 1.78 | 0.76 |
| N18-1855 - Checks | 2.62 | 1.33 | 54.04 | 1.96 | 0.62 |
| N18-1956 - Checks | 7.03 | 1.33 | 54.04 | 5.27 | 0.00 |
| Lodging | LMN09-119 - Checks | 0.06 | 0.18 | 52.78 | 0.30 | 1.00 |
| N09-09 - Checks | -0.18 | 0.18 | 52.78 | -0.99 | 1.00 |
| N18-1572 - Checks | 0.07 | 0.18 | 52.78 | 0.38 | 1.00 |
| N18-1595 - Checks | 0.54 | 0.18 | 52.78 | 2.97 | 0.07 |
| N18-1604 - Checks | 0.86 | 0.18 | 52.78 | 4.72 | 0.00 |
| N18-1620 - Checks | -0.28 | 0.18 | 52.78 | -1.52 | 0.91 |
| N18-1632-1 - Checks | -0.36 | 0.18 | 52.78 | -1.98 | 0.60 |
| N18-1632-2 - Checks | -0.29 | 0.18 | 52.78 | -1.60 | 0.88 |
| N18-1635 - Checks | 0.38 | 0.18 | 52.78 | 2.05 | 0.54 |
| N18-1641 - Checks | 0.65 | 0.18 | 52.78 | 3.57 | 0.01 |
| N18-1674 - Checks | 0.43 | 0.18 | 52.78 | 2.36 | 0.32 |
| N18-1682 - Checks | -0.01 | 0.18 | 52.78 | -0.08 | 1.00 |
| N18-1731 - Checks | 0.14 | 0.18 | 52.78 | 0.76 | 1.00 |
| N18-1751 - Checks | 0.07 | 0.18 | 52.78 | 0.38 | 1.00 |
| N18-1763 - Checks | 0.22 | 0.18 | 52.78 | 1.22 | 0.99 |
| N18-1855 - Checks | -0.14 | 0.18 | 52.78 | -0.76 | 1.00 |
| N18-1956 - Checks | 0.57 | 0.18 | 52.78 | 3.12 | 0.05 |
| Oil (% dry basis) | LMN09-119 - Checks | -4.44 | 0.29 | 57.00 | -15.19 | 0.00 |
| N09-09 - Checks | -2.68 | 0.29 | 57.00 | -9.16 | 0.00 |
| N18-1572 - Checks | -1.26 | 0.29 | 57.00 | -4.32 | 0.00 |
| N18-1595 - Checks | -2.93 | 0.29 | 57.00 | -10.03 | 0.00 |
| N18-1604 - Checks | -1.11 | 0.29 | 57.00 | -3.81 | 0.01 |
| N18-1620 - Checks | -1.04 | 0.29 | 57.00 | -3.57 | 0.01 |
| N18-1632-1 - Checks | -1.69 | 0.29 | 57.00 | -5.77 | 0.00 |
| N18-1632-2 - Checks | -1.65 | 0.29 | 57.00 | -5.63 | 0.00 |
| N18-1635 - Checks | -0.73 | 0.29 | 57.00 | -2.51 | 0.23 |
| N18-1641 - Checks | -1.09 | 0.29 | 57.00 | -3.73 | 0.01 |
| N18-1674 - Checks | -1.24 | 0.29 | 57.00 | -4.24 | 0.00 |
| N18-1682 - Checks | -1.69 | 0.29 | 57.00 | -5.77 | 0.00 |
| N18-1731 - Checks | -1.96 | 0.29 | 57.00 | -6.71 | 0.00 |
| N18-1751 - Checks | -2.01 | 0.29 | 57.00 | -6.87 | 0.00 |
| N18-1763 - Checks | -2.87 | 0.29 | 57.00 | -9.82 | 0.00 |
| N18-1855 - Checks | -1.84 | 0.29 | 57.00 | -6.31 | 0.00 |
| N18-1956 - Checks | -0.94 | 0.29 | 57.00 | -3.21 | 0.04 |
| Protein (% dry basis) | LMN09-119 - Checks | 10.43 | 0.42 | 57.00 | 24.97 | 0.00 |
| N09-09 - Checks | 5.37 | 0.42 | 57.00 | 12.85 | 0.00 |
| N18-1572 - Checks | 4.14 | 0.42 | 57.00 | 9.91 | 0.00 |
| N18-1595 - Checks | 6.41 | 0.42 | 57.00 | 15.35 | 0.00 |
| N18-1604 - Checks | 2.88 | 0.42 | 57.00 | 6.91 | 0.00 |
| N18-1620 - Checks | 2.68 | 0.42 | 57.00 | 6.43 | 0.00 |
| N18-1632-1 - Checks | 5.70 | 0.42 | 57.00 | 13.64 | 0.00 |
| N18-1632-2 - Checks | 5.72 | 0.42 | 57.00 | 13.70 | 0.00 |
| N18-1635 - Checks | 2.66 | 0.42 | 57.00 | 6.37 | 0.00 |
| N18-1641 - Checks | 2.39 | 0.42 | 57.00 | 5.72 | 0.00 |
| N18-1674 - Checks | 4.25 | 0.42 | 57.00 | 10.17 | 0.00 |
| N18-1682 - Checks | 4.17 | 0.42 | 57.00 | 9.98 | 0.00 |
| N18-1731 - Checks | 5.16 | 0.42 | 57.00 | 12.35 | 0.00 |
| N18-1751 - Checks | 3.86 | 0.42 | 57.00 | 9.24 | 0.00 |
| N18-1763 - Checks | 6.88 | 0.42 | 57.00 | 16.47 | 0.00 |
| N18-1855 - Checks | 6.58 | 0.42 | 57.00 | 15.75 | 0.00 |
| N18-1956 - Checks | 3.60 | 0.42 | 57.00 | 8.63 | 0.00 |
| Yield (bu/ac) | LMN09-119 - Checks | -5.69 | 2.84 | 57.00 | -2.00 | 0.58 |
| N09-09 - Checks | -3.44 | 2.84 | 57.00 | -1.21 | 0.99 |
| N18-1572 - Checks | -6.47 | 2.84 | 57.00 | -2.28 | 0.37 |
| N18-1595 - Checks | -1.53 | 2.84 | 57.00 | -0.54 | 1.00 |
| N18-1604 - Checks | -1.90 | 2.84 | 57.00 | -0.67 | 1.00 |
| N18-1620 - Checks | 1.49 | 2.84 | 57.00 | 0.52 | 1.00 |
| N18-1632-1 - Checks | 0.68 | 2.84 | 57.00 | 0.24 | 1.00 |
| N18-1632-2 - Checks | 1.29 | 2.84 | 57.00 | 0.46 | 1.00 |
| N18-1635 - Checks | 1.40 | 2.84 | 57.00 | 0.49 | 1.00 |
| N18-1641 - Checks | -3.06 | 2.84 | 57.00 | -1.08 | 1.00 |
| N18-1674 - Checks | -0.79 | 2.84 | 57.00 | -0.28 | 1.00 |
| N18-1682 - Checks | -1.41 | 2.84 | 57.00 | -0.50 | 1.00 |
| N18-1731 - Checks | -1.89 | 2.84 | 57.00 | -0.67 | 1.00 |
| N18-1751 - Checks | -3.46 | 2.84 | 57.00 | -1.22 | 0.99 |
| N18-1763 - Checks | -5.61 | 2.84 | 57.00 | -1.97 | 0.61 |
| N18-1855 - Checks | -1.88 | 2.84 | 57.00 | -0.66 | 1.00 |
| N18-1956 - Checks | -10.26 | 2.84 | 57.00 | -3.61 | 0.01 |
| Seed Weight (grams) | LMN09-119 - Checks | 2.46 | 0.48 | 57.00 | 5.16 | 0.00 |
| N09-09 - Checks | 0.54 | 0.48 | 57.00 | 1.14 | 0.99 |
| N18-1572 - Checks | 1.68 | 0.48 | 57.00 | 3.53 | 0.01 |
| N18-1595 - Checks | 0.81 | 0.48 | 57.00 | 1.70 | 0.82 |
| N18-1604 - Checks | 1.02 | 0.48 | 57.00 | 2.13 | 0.48 |
| N18-1620 - Checks | 0.53 | 0.48 | 57.00 | 1.12 | 1.00 |
| N18-1632-1 - Checks | 0.72 | 0.48 | 57.00 | 1.50 | 0.92 |
| N18-1632-2 - Checks | 0.73 | 0.48 | 57.00 | 1.54 | 0.91 |
| N18-1635 - Checks | 0.35 | 0.48 | 57.00 | 0.73 | 1.00 |
| N18-1641 - Checks | 0.38 | 0.48 | 57.00 | 0.80 | 1.00 |
| N18-1674 - Checks | 0.52 | 0.48 | 57.00 | 1.10 | 1.00 |
| N18-1682 - Checks | 0.44 | 0.48 | 57.00 | 0.93 | 1.00 |
| N18-1731 - Checks | 2.64 | 0.48 | 57.00 | 5.54 | 0.00 |
| N18-1751 - Checks | 1.10 | 0.48 | 57.00 | 2.31 | 0.35 |
| N18-1763 - Checks | 0.22 | 0.48 | 57.00 | 0.47 | 1.00 |
| N18-1855 - Checks | 2.57 | 0.48 | 57.00 | 5.38 | 0.00 |
| N18-1956 - Checks | 0.83 | 0.48 | 57.00 | 1.75 | 0.78 |
| Seed Quality | LMN09-119 - Checks | 0.25 | 0.21 | 56.68 | 1.18 | 0.99 |
| N09-09 - Checks | -0.17 | 0.21 | 56.68 | -0.77 | 1.00 |
| N18-1572 - Checks | 0.19 | 0.21 | 56.68 | 0.90 | 1.00 |
| N18-1595 - Checks | -0.04 | 0.21 | 56.68 | -0.18 | 1.00 |
| N18-1604 - Checks | -0.02 | 0.21 | 56.68 | -0.10 | 1.00 |
| N18-1620 - Checks | 0.23 | 0.21 | 56.68 | 1.06 | 1.00 |
| N18-1632-1 - Checks | 0.09 | 0.21 | 56.68 | 0.41 | 1.00 |
| N18-1632-2 - Checks | 0.36 | 0.21 | 56.68 | 1.65 | 0.84 |
| N18-1635 - Checks | -0.08 | 0.21 | 56.68 | -0.38 | 1.00 |
| N18-1641 - Checks | 0.07 | 0.21 | 56.68 | 0.33 | 1.00 |
| N18-1674 - Checks | 0.22 | 0.21 | 56.68 | 1.02 | 1.00 |
| N18-1682 - Checks | 0.17 | 0.21 | 56.68 | 0.81 | 1.00 |
| N18-1731 - Checks | 0.42 | 0.21 | 56.68 | 1.97 | 0.61 |
| N18-1751 - Checks | 0.35 | 0.21 | 56.68 | 1.61 | 0.87 |
| N18-1763 - Checks | 0.11 | 0.21 | 56.68 | 0.50 | 1.00 |
| N18-1855 - Checks | 0.30 | 0.21 | 56.68 | 1.40 | 0.96 |
| N18-1956 - Checks | 0.18 | 0.21 | 56.68 | 0.83 | 1.00 |
| Protein + Oil (% dry basis) | LMN09-119 - Checks | 5.99 | 0.27 | 57.00 | 21.78 | 0.00 |
| N09-09 - Checks | 2.69 | 0.27 | 57.00 | 9.77 | 0.00 |
| N18-1572 - Checks | 2.88 | 0.27 | 57.00 | 10.46 | 0.00 |
| N18-1595 - Checks | 3.48 | 0.27 | 57.00 | 12.65 | 0.00 |
| N18-1604 - Checks | 1.77 | 0.27 | 57.00 | 6.44 | 0.00 |
| N18-1620 - Checks | 1.64 | 0.27 | 57.00 | 5.96 | 0.00 |
| N18-1632-1 - Checks | 4.01 | 0.27 | 57.00 | 14.58 | 0.00 |
| N18-1632-2 - Checks | 4.08 | 0.27 | 57.00 | 14.83 | 0.00 |
| N18-1635 - Checks | 1.93 | 0.27 | 57.00 | 7.01 | 0.00 |
| N18-1641 - Checks | 1.30 | 0.27 | 57.00 | 4.72 | 0.00 |
| N18-1674 - Checks | 3.01 | 0.27 | 57.00 | 10.94 | 0.00 |
| N18-1682 - Checks | 2.48 | 0.27 | 57.00 | 9.02 | 0.00 |
| N18-1731 - Checks | 3.19 | 0.27 | 57.00 | 11.62 | 0.00 |
| N18-1751 - Checks | 1.85 | 0.27 | 57.00 | 6.73 | 0.00 |
| N18-1763 - Checks | 4.01 | 0.27 | 57.00 | 14.58 | 0.00 |
| N18-1855 - Checks | 4.73 | 0.27 | 57.00 | 17.21 | 0.00 |
| N18-1956 - Checks | 2.67 | 0.27 | 57.00 | 9.69 | 0.00 |
| Protein Meal | LMN09-119 - Checks | 9.49 | 0.38 | 57.00 | 25.15 | 0.00 |
| N09-09 - Checks | 4.78 | 0.38 | 57.00 | 12.67 | 0.00 |
| N18-1572 - Checks | 4.16 | 0.38 | 57.00 | 11.01 | 0.00 |
| N18-1595 - Checks | 5.83 | 0.38 | 57.00 | 15.44 | 0.00 |
| N18-1604 - Checks | 2.78 | 0.38 | 57.00 | 7.37 | 0.00 |
| N18-1620 - Checks | 2.58 | 0.38 | 57.00 | 6.84 | 0.00 |
| N18-1632-1 - Checks | 5.72 | 0.38 | 57.00 | 15.16 | 0.00 |
| N18-1632-2 - Checks | 5.77 | 0.38 | 57.00 | 15.29 | 0.00 |
| N18-1635 - Checks | 2.73 | 0.38 | 57.00 | 7.22 | 0.00 |
| N18-1641 - Checks | 2.22 | 0.38 | 57.00 | 5.87 | 0.00 |
| N18-1674 - Checks | 4.30 | 0.38 | 57.00 | 11.38 | 0.00 |
| N18-1682 - Checks | 3.96 | 0.38 | 57.00 | 10.48 | 0.00 |
| N18-1731 - Checks | 4.94 | 0.38 | 57.00 | 13.09 | 0.00 |
| N18-1751 - Checks | 3.42 | 0.38 | 57.00 | 9.06 | 0.00 |
| N18-1763 - Checks | 6.39 | 0.38 | 57.00 | 16.93 | 0.00 |
| N18-1855 - Checks | 6.65 | 0.38 | 57.00 | 17.60 | 0.00 |
| N18-1956 - Checks | 3.71 | 0.38 | 57.00 | 9.81 | 0.00 |
| Jay Test 2 | Maturity Date | N09-09 - Checks | 2.18 | 1.10 | 56.21 | 1.98 | 0.58 |
| N18-1575 - Checks | 1.62 | 1.13 | 60.98 | 1.43 | 0.94 |
| N18-1577 - Checks | 1.41 | 1.10 | 56.21 | 1.28 | 0.97 |
| N18-1579 - Checks | 0.24 | 1.10 | 56.21 | 0.22 | 1.00 |
| N18-1586 - Checks | 0.98 | 1.10 | 56.21 | 0.89 | 1.00 |
| N18-1615 - Checks | 1.04 | 1.10 | 56.21 | 0.95 | 1.00 |
| N18-1627 - Checks | 0.15 | 1.10 | 56.21 | 0.14 | 1.00 |
| N18-1628 - Checks | 3.60 | 1.10 | 56.21 | 3.27 | 0.03 |
| N18-1643 - Checks | 2.37 | 1.10 | 56.21 | 2.15 | 0.44 |
| N18-1659 - Checks | 0.74 | 1.10 | 56.21 | 0.67 | 1.00 |
| N18-1661 - Checks | 0.62 | 1.10 | 56.21 | 0.56 | 1.00 |
| N18-1761 - Checks | -0.49 | 1.10 | 56.21 | -0.45 | 1.00 |
| N18-1769 - Checks | -0.32 | 1.10 | 56.21 | -0.29 | 1.00 |
| N18-1783 - Checks | 0.64 | 1.10 | 56.21 | 0.58 | 1.00 |
| N18-1796 - Checks | 0.83 | 1.10 | 56.21 | 0.75 | 1.00 |
| N18-1820 - Checks | 1.34 | 1.10 | 56.21 | 1.22 | 0.98 |
| Height (inches) | N09-09 - Checks | 4.67 | 1.17 | 55.74 | 4.00 | 0.00 |
| N18-1575 - Checks | 1.72 | 1.17 | 55.74 | 1.48 | 0.92 |
| N18-1577 - Checks | 2.82 | 1.17 | 55.74 | 2.42 | 0.26 |
| N18-1579 - Checks | 2.87 | 1.17 | 55.74 | 2.47 | 0.24 |
| N18-1586 - Checks | 0.56 | 1.17 | 55.74 | 0.48 | 1.00 |
| N18-1615 - Checks | 2.61 | 1.17 | 55.74 | 2.24 | 0.38 |
| N18-1627 - Checks | 2.69 | 1.17 | 55.74 | 2.31 | 0.33 |
| N18-1628 - Checks | 4.60 | 1.17 | 55.74 | 3.95 | 0.00 |
| N18-1643 - Checks | 1.22 | 1.20 | 58.66 | 1.02 | 1.00 |
| N18-1659 - Checks | 3.09 | 1.17 | 55.74 | 2.65 | 0.15 |
| N18-1661 - Checks | 5.54 | 1.17 | 55.74 | 4.75 | 0.00 |
| N18-1761 - Checks | 0.28 | 1.17 | 55.74 | 0.24 | 1.00 |
| N18-1769 - Checks | -1.17 | 1.17 | 55.74 | -1.01 | 1.00 |
| N18-1783 - Checks | 3.50 | 1.17 | 55.74 | 3.01 | 0.06 |
| N18-1796 - Checks | 3.95 | 1.17 | 55.74 | 3.39 | 0.02 |
| N18-1820 - Checks | 1.48 | 1.17 | 55.74 | 1.27 | 0.98 |
| Lodging | N09-09 - Checks | 0.60 | 0.22 | 55.61 | 2.80 | 0.11 |
| N18-1575 - Checks | 0.60 | 0.22 | 55.61 | 2.80 | 0.11 |
| N18-1577 - Checks | 0.97 | 0.22 | 55.61 | 4.50 | 0.00 |
| N18-1579 - Checks | 0.80 | 0.22 | 55.61 | 3.70 | 0.01 |
| N18-1586 - Checks | 0.73 | 0.22 | 55.61 | 3.41 | 0.02 |
| N18-1615 - Checks | 0.55 | 0.22 | 55.61 | 2.57 | 0.19 |
| N18-1627 - Checks | 0.30 | 0.22 | 55.61 | 1.38 | 0.95 |
| N18-1628 - Checks | 1.17 | 0.22 | 55.61 | 5.44 | 0.00 |
| N18-1643 - Checks | 0.43 | 0.22 | 55.61 | 1.99 | 0.57 |
| N18-1659 - Checks | 0.73 | 0.22 | 55.61 | 3.38 | 0.02 |
| N18-1661 - Checks | 1.18 | 0.22 | 55.61 | 5.47 | 0.00 |
| N18-1761 - Checks | 0.14 | 0.22 | 55.61 | 0.67 | 1.00 |
| N18-1769 - Checks | 0.24 | 0.22 | 55.61 | 1.12 | 0.99 |
| N18-1783 - Checks | 0.60 | 0.22 | 55.61 | 2.80 | 0.11 |
| N18-1796 - Checks | 0.92 | 0.22 | 55.61 | 4.28 | 0.00 |
| N18-1820 - Checks | 0.87 | 0.22 | 55.61 | 4.05 | 0.00 |
| Oil (% dry basis) | N09-09 - Checks | -1.19 | 0.27 | 56.35 | -4.49 | 0.00 |
| N18-1575 - Checks | -0.98 | 0.27 | 56.35 | -3.69 | 0.01 |
| N18-1577 - Checks | -1.97 | 0.27 | 56.35 | -7.43 | 0.00 |
| N18-1579 - Checks | 0.39 | 0.27 | 56.35 | 1.45 | 0.93 |
| N18-1586 - Checks | -0.56 | 0.28 | 63.08 | -2.01 | 0.55 |
| N18-1615 - Checks | 0.41 | 0.27 | 56.35 | 1.56 | 0.88 |
| N18-1627 - Checks | -0.73 | 0.27 | 56.35 | -2.76 | 0.12 |
| N18-1628 - Checks | -1.90 | 0.27 | 56.35 | -7.17 | 0.00 |
| N18-1643 - Checks | 0.10 | 0.27 | 56.35 | 0.37 | 1.00 |
| N18-1659 - Checks | -1.30 | 0.27 | 56.35 | -4.91 | 0.00 |
| N18-1661 - Checks | 0.26 | 0.27 | 56.35 | 0.98 | 1.00 |
| N18-1761 - Checks | -1.97 | 0.27 | 56.35 | -7.41 | 0.00 |
| N18-1769 - Checks | -1.98 | 0.27 | 56.35 | -7.47 | 0.00 |
| N18-1783 - Checks | -0.72 | 0.27 | 56.35 | -2.70 | 0.14 |
| N18-1796 - Checks | -1.23 | 0.27 | 56.35 | -4.64 | 0.00 |
| N18-1820 - Checks | 0.30 | 0.27 | 56.35 | 1.12 | 0.99 |
| Protein (% dry basis) | N09-09 - Checks | 2.99 | 0.37 | 56.28 | 8.12 | 0.00 |
| N18-1575 - Checks | 5.86 | 0.37 | 56.28 | 15.89 | 0.00 |
| N18-1577 - Checks | 6.15 | 0.37 | 56.28 | 16.68 | 0.00 |
| N18-1579 - Checks | 0.60 | 0.37 | 56.28 | 1.62 | 0.85 |
| N18-1586 - Checks | 3.17 | 0.39 | 63.30 | 8.18 | 0.00 |
| N18-1615 - Checks | 0.67 | 0.37 | 56.28 | 1.83 | 0.70 |
| N18-1627 - Checks | 3.09 | 0.37 | 56.28 | 8.37 | 0.00 |
| N18-1628 - Checks | 6.65 | 0.37 | 56.28 | 18.04 | 0.00 |
| N18-1643 - Checks | 1.54 | 0.37 | 56.28 | 4.17 | 0.00 |
| N18-1659 - Checks | 5.11 | 0.37 | 56.28 | 13.86 | 0.00 |
| N18-1661 - Checks | 0.77 | 0.37 | 56.28 | 2.09 | 0.49 |
| N18-1761 - Checks | 6.29 | 0.37 | 56.28 | 17.05 | 0.00 |
| N18-1769 - Checks | 5.77 | 0.37 | 56.28 | 15.64 | 0.00 |
| N18-1783 - Checks | 3.93 | 0.37 | 56.28 | 10.66 | 0.00 |
| N18-1796 - Checks | 4.90 | 0.37 | 56.28 | 13.29 | 0.00 |
| N18-1820 - Checks | 0.59 | 0.37 | 56.28 | 1.60 | 0.86 |
| Yield (bu/ac) | N09-09 - Checks | 1.74 | 2.69 | 57.00 | 0.65 | 1.00 |
| N18-1575 - Checks | -0.95 | 2.69 | 57.00 | -0.35 | 1.00 |
| N18-1577 - Checks | 1.21 | 2.69 | 57.00 | 0.45 | 1.00 |
| N18-1579 - Checks | 3.54 | 2.69 | 57.00 | 1.31 | 0.97 |
| N18-1586 - Checks | 3.65 | 2.69 | 57.00 | 1.36 | 0.96 |
| N18-1615 - Checks | 6.19 | 2.69 | 57.00 | 2.30 | 0.34 |
| N18-1627 - Checks | 2.57 | 2.69 | 57.00 | 0.95 | 1.00 |
| N18-1628 - Checks | -6.41 | 2.69 | 57.00 | -2.38 | 0.29 |
| N18-1643 - Checks | -2.90 | 2.69 | 57.00 | -1.08 | 1.00 |
| N18-1659 - Checks | -1.35 | 2.69 | 57.00 | -0.50 | 1.00 |
| N18-1661 - Checks | 2.89 | 2.69 | 57.00 | 1.07 | 1.00 |
| N18-1761 - Checks | 2.29 | 2.69 | 57.00 | 0.85 | 1.00 |
| N18-1769 - Checks | -5.56 | 2.69 | 57.00 | -2.06 | 0.51 |
| N18-1783 - Checks | -5.82 | 2.69 | 57.00 | -2.16 | 0.44 |
| N18-1796 - Checks | 4.09 | 2.69 | 57.00 | 1.52 | 0.90 |
| N18-1820 - Checks | -0.97 | 2.69 | 57.00 | -0.36 | 1.00 |
| Seed Weight (grams) | N09-09 - Checks | 1.93 | 0.55 | 57.00 | 3.48 | 0.02 |
| N18-1575 - Checks | 3.14 | 0.55 | 57.00 | 5.66 | 0.00 |
| N18-1577 - Checks | 1.21 | 0.55 | 57.00 | 2.19 | 0.41 |
| N18-1579 - Checks | 0.76 | 0.55 | 57.00 | 1.36 | 0.96 |
| N18-1586 - Checks | -0.34 | 0.55 | 57.00 | -0.62 | 1.00 |
| N18-1615 - Checks | 1.76 | 0.55 | 57.00 | 3.17 | 0.04 |
| N18-1627 - Checks | 3.05 | 0.55 | 57.00 | 5.50 | 0.00 |
| N18-1628 - Checks | 0.17 | 0.55 | 57.00 | 0.31 | 1.00 |
| N18-1643 - Checks | 1.13 | 0.55 | 57.00 | 2.04 | 0.53 |
| N18-1659 - Checks | -0.35 | 0.55 | 57.00 | -0.64 | 1.00 |
| N18-1661 - Checks | -0.04 | 0.55 | 57.00 | -0.08 | 1.00 |
| N18-1761 - Checks | 1.76 | 0.55 | 57.00 | 3.17 | 0.04 |
| N18-1769 - Checks | 1.96 | 0.55 | 57.00 | 3.54 | 0.01 |
| N18-1783 - Checks | 1.11 | 0.55 | 57.00 | 2.00 | 0.57 |
| N18-1796 - Checks | -0.48 | 0.55 | 57.00 | -0.86 | 1.00 |
| N18-1820 - Checks | 2.05 | 0.55 | 57.00 | 3.69 | 0.01 |
| Seed Quality | N09-09 - Checks | -0.09 | 0.17 | 55.30 | -0.49 | 1.00 |
| N18-1575 - Checks | 0.11 | 0.17 | 55.30 | 0.61 | 1.00 |
| N18-1577 - Checks | 0.08 | 0.17 | 55.30 | 0.47 | 1.00 |
| N18-1579 - Checks | -0.08 | 0.17 | 55.30 | -0.49 | 1.00 |
| N18-1586 - Checks | -0.18 | 0.17 | 55.30 | -1.06 | 1.00 |
| N18-1615 - Checks | -0.04 | 0.17 | 55.30 | -0.22 | 1.00 |
| N18-1627 - Checks | 0.18 | 0.17 | 55.30 | 1.02 | 1.00 |
| N18-1628 - Checks | 0.52 | 0.17 | 55.30 | 2.99 | 0.06 |
| N18-1643 - Checks | 0.07 | 0.18 | 58.83 | 0.37 | 1.00 |
| N18-1659 - Checks | 0.12 | 0.17 | 55.30 | 0.68 | 1.00 |
| N18-1661 - Checks | 0.07 | 0.17 | 55.30 | 0.41 | 1.00 |
| N18-1761 - Checks | 0.00 | 0.17 | 55.30 | -0.02 | 1.00 |
| N18-1769 - Checks | 0.36 | 0.17 | 55.30 | 2.08 | 0.50 |
| N18-1783 - Checks | 0.20 | 0.17 | 55.30 | 1.17 | 0.99 |
| N18-1796 - Checks | -0.24 | 0.17 | 55.30 | -1.39 | 0.95 |
| N18-1820 - Checks | 0.16 | 0.17 | 55.30 | 0.93 | 1.00 |
| Protein + Oil (% dry basis) | N09-09 - Checks | 1.81 | 0.31 | 56.46 | 5.78 | 0.00 |
| N18-1575 - Checks | 4.89 | 0.31 | 56.46 | 15.62 | 0.00 |
| N18-1577 - Checks | 4.18 | 0.31 | 56.46 | 13.37 | 0.00 |
| N18-1579 - Checks | 0.99 | 0.31 | 56.46 | 3.16 | 0.04 |
| N18-1586 - Checks | 2.63 | 0.32 | 62.59 | 8.11 | 0.00 |
| N18-1615 - Checks | 1.09 | 0.31 | 56.46 | 3.49 | 0.02 |
| N18-1627 - Checks | 2.36 | 0.31 | 56.46 | 7.53 | 0.00 |
| N18-1628 - Checks | 4.75 | 0.31 | 56.46 | 15.19 | 0.00 |
| N18-1643 - Checks | 1.64 | 0.31 | 56.46 | 5.24 | 0.00 |
| N18-1659 - Checks | 3.81 | 0.31 | 56.46 | 12.18 | 0.00 |
| N18-1661 - Checks | 1.03 | 0.31 | 56.46 | 3.30 | 0.03 |
| N18-1761 - Checks | 4.32 | 0.31 | 56.46 | 13.82 | 0.00 |
| N18-1769 - Checks | 3.79 | 0.31 | 56.46 | 12.11 | 0.00 |
| N18-1783 - Checks | 3.22 | 0.31 | 56.46 | 10.28 | 0.00 |
| N18-1796 - Checks | 3.67 | 0.31 | 56.46 | 11.74 | 0.00 |
| N18-1820 - Checks | 0.89 | 0.31 | 56.46 | 2.84 | 0.10 |
| Protein Meal | N09-09 - Checks | 2.82 | 0.38 | 56.38 | 7.49 | 0.00 |
| N18-1575 - Checks | 6.23 | 0.38 | 56.38 | 16.54 | 0.00 |
| N18-1577 - Checks | 5.98 | 0.38 | 56.38 | 15.88 | 0.00 |
| N18-1579 - Checks | 0.91 | 0.38 | 56.38 | 2.43 | 0.26 |
| N18-1586 - Checks | 3.38 | 0.39 | 62.99 | 8.60 | 0.00 |
| N18-1615 - Checks | 1.02 | 0.38 | 56.38 | 2.71 | 0.13 |
| N18-1627 - Checks | 3.18 | 0.38 | 56.38 | 8.42 | 0.00 |
| N18-1628 - Checks | 6.60 | 0.38 | 56.38 | 17.51 | 0.00 |
| N18-1643 - Checks | 1.85 | 0.38 | 56.38 | 4.90 | 0.00 |
| N18-1659 - Checks | 5.18 | 0.38 | 56.38 | 13.75 | 0.00 |
| N18-1661 - Checks | 1.05 | 0.38 | 56.38 | 2.78 | 0.11 |
| N18-1761 - Checks | 6.14 | 0.38 | 56.38 | 16.30 | 0.00 |
| N18-1769 - Checks | 5.54 | 0.38 | 56.38 | 14.70 | 0.00 |
| N18-1783 - Checks | 4.17 | 0.38 | 56.38 | 11.05 | 0.00 |
| N18-1796 - Checks | 4.98 | 0.38 | 56.38 | 13.20 | 0.00 |
| N18-1820 - Checks | 0.85 | 0.38 | 56.38 | 2.25 | 0.37 |
| aThe test which a RIL and it's associated checks belong to. | | | | | | | |
| bThe phenotype . | | | | | | | |
| cThe contrast label in the form RIL name - Checks. | | | | | | | |
| dThe estimated difference between the RIL and the check average. | | | | | | | |
| eThe standard error on the estimation of the contrast. | | | | | | | |
| fDegrees of freedom. | | | | | | | |