|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Genotypes | Fe (mg Kg-1) | | Zn (mg Kg-1) | | KWT (mg) | |
| 2010/11 | 2011/12 | 2010/11 | 2011/12 | 2010/11 | 2011/12 |
| Chinese Spring | 28.8 | 36.3 | 32.8 | 26.5 | 161.3 | 204.7 |
| Norin 61 | 31.4 | 34.1 | 37.3 | 27.6 | 202.0 | 217.3 |
| Cham 6 | 26.6 | 22.2 | 27.4 | 20.6 | 235.7 | 192.7 |
| Safedak Ishkashim | 33.8 | 36.9 | 34.2 | 25.7 | 241.3 | 259.3 |
| Syn-AE454 | 40.5 | 49.0 | 31.9 | 40.5 | 216.3 | 198.3 |
| **Syn-AE929** | **57.6** | **78.5** | **49.6** | **63.7** | **162.7** | **160.7** |
| Syn-IG48042 | 40.4 | 43.1 | 29.1 | 30.5 | 236.7 | 220.3 |
| Syn-IG126387 | 41.7 | 39.4 | 35.1 | 32.8 | 250.7 | 205.3 |
| Syn-IG131606 | 43.9 | 50.8 | 45.1 | 45.9 | 226.7 | 201.0 |
| **Syn-KU-20-8** | **48.6** | **74.1** | **52.1** | **60.1** | **198.0** | **150.3** |
| Syn-KU-2039 | 47.1 | 45.7 | 45.9 | 32.0 | 236.0 | 233.7 |
| Syn-KU-2074 | 37.7 | 46.9 | 32.0 | 35.0 | 267.3 | 255.7 |
| Syn-KU-2075 | 40.3 | 33.6 | 35.7 | 30.2 | 161.3 | 158.0 |
| Syn-KU-2080 | 43.5 | 42.5 | 38.7 | 36.2 | 276.7 | 206.3 |
| Syn-KU-2088 | 36.1 | 47.5 | 27.1 | 34.0 | 251.0 | 234.7 |
| Syn-KU-2092 | 40.7 | 47.6 | 30.8 | 36.0 | 293.3 | 224.0 |
| Syn-KU-2096 | 37.2 | 53.0 | 29.7 | 32.1 | 324.3 | 216.0 |
| Syn-KU-2097 | 39.3 | 56.5 | 35.7 | 35.2 | 261.0 | 229.3 |
| Syn-KU-2098 | 42.2 | 43.8 | 34.7 | 40.4 | 258.0 | 244.0 |
| Syn-KU-2100 | 48.5 | 57.1 | 40.3 | 42.2 | 227.0 | 214.0 |
| Syn-KU-2105 | 36.7 | 47.2 | 36.1 | 41.7 | 324.7 | 235.3 |
| Syn-KU-2106 | 38.8 | 47.4 | 41.9 | 48.9 | 216.0 | 155.3 |
| Syn-KU-2124 | 31.1 | 48.7 | 32.6 | 47.5 | 225.3 | 156.0 |
| **Syn-KU-2126** | **54.7** | **68.4** | 65.8 | 45.8 | 169.0 | 219.3 |
| **Syn-KU-2144** | **51.6** | **66.5** | **59.1** | **63.9** | **178.0** | **139.3** |
| Syn-KU-2159 | 44.1 | 56.3 | 43.6 | 49.8 | 185.0 | 231.3 |
| Syn-KU-2829A | 48.0 | 59.3 | 43.6 | 50.6 | 241.7 | 234.3 |
| Syn-PI-476874 | 42.0 | 61.7 | 40.5 | 65.8 | 264.0 | 202.0 |
| Syn-AT55 | 38.0 | 45.5 | 33.1 | 45.3 | 269.3 | 251.0 |
| Syn-AT76 | 49.0 | 56.1 | 51.7 | 53.4 | 267.7 | 221.7 |
| Syn-AT80 | 49.4 | 42.7 | 58.2 | 42.2 | 198.7 | 240.0 |
| Syn-AE1090 | 39.2 | 45.6 | 41.2 | 41.8 | 254.7 | 268.7 |
| Syn-IG47259 | 44.6 | 58.2 | 42.7 | 42.2 | 172.0 | 166.3 |
| Syn-KU-20-10 | 33.1 | 49.5 | 35.5 | 39.9 | 268.7 | 217.3 |
| Syn-KU-2076 | 34.8 | 48.7 | 28.1 | 35.4 | 247.7 | 274.0 |
| Syn-KU-2078 | 34.6 | 39.6 | 27.0 | 40.7 | 302.0 | 223.3 |
| Syn-KU-2079 | 44.2 | 47.2 | 37.0 | 38.9 | 270.0 | 243.7 |
| Syn-KU-20-9 | 41.7 | 50.0 | 34.2 | 43.5 | 284.0 | 243.0 |
| Syn-KU-2029 | 52.7 | 53.0 | 37.3 | 49.8 | 243.0 | 190.7 |
| Syn-KU-2091 | 38.2 | 49.4 | 35.3 | 37.4 | 297.7 | 269.0 |
| Syn-KU-2093 | 39.5 | 47.3 | 33.6 | 42.5 | 285.0 | 252.7 |
| Syn-KU-2103 | 34.7 | 54.2 | 36.5 | 45.8 | 247.7 | 245.0 |
| Syn-KU-2109 | 37.8 | 41.2 | 38.7 | 33.6 | 225.3 | 250.7 |
| Syn-KU-2132 | 40.4 | 44.5 | 34.4 | 31.5 | 252.3 | 228.0 |
| Syn-KU-2136 | 40.5 | 56.9 | 32.6 | 42.6 | 240.7 | 226.7 |
| Syn-KU-2155 | 41.4 | 56.7 | 43.6 | 44.2 | 198.3 | 258.3 |
| Syn-KU-2156 | 49.7 | 55.9 | 47.4 | 49.4 | 208.0 | 233.7 |

**Table S1** Mean iron content (Fe) and zinc content (Zn), and kernel weight (KWT) of the 47 synthetic wheat lines and the four check cultivars grown during seasons 2010/11 and 2011/12

**Table S1** continued

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Syn-KU-2158 | 41.2 | 47.3 | 33.9 | 41.4 | 253.7 | 217.7 |
| Syn-KU-2816 | 45.6 | 55.0 | 36.7 | 47.3 | 255.3 | 214.0 |
| Syn-PI-499262 | 37.7 | 47.0 | 33.1 | 36.0 | 241.7 | 214.7 |
| Syn-PI-508262 | 41.9 | 43.3 | 41.5 | 38.5 | 222.3 | 222.0 |
| Mean | 41.2 | 49.6 | 38.5 | 41.3 | 239.2 | 219.0 |
| LSD (*P*= 0.05) | 8.1 | 15.3 | 8.8 | 10.6 | 52.9 | 54.3 |
| CV% | 6 | 9 | 7 | 8 | 7 | 7 |