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| Table S3 Frequency change of major alleles at the 44 loci with higher *PIC* than the mean (0.54) in landraces and modern varieties |
| Loci | **Chr.** | **Genetic position (cM)** | **Major allele in modern var. (bp)**  | **Freq.(%)** | ***PIC*** |
|
| **Landraces** | **Modern var.** | **Landraces** | **Modern var.** |
| *Xgpw7072* | 1A | 13.00  | 213 | 39.33  | 30.69  | 0.64  | 0.68  |
|  |  |  | 222 | 36.00  | 30.69  |  |  |
| *Wmc59* | 1A | 112.88  | 215 | 16.67  | 29.17  | 0.72  | 0.75  |
|  |  |  | 219 | 38.44  | 17.19  |  |  |
| *Gwm273* | 1B | 54.54 | 192 | 20.39  | 40.50  | 0.76  | 0.73  |
| *Gwm413* | 1B | 59.55  | 90 | 15.63  | 26.67  | 0.79  | 0.77  |
| *Barc152* | 1D | 25.10  | 130 | 27.93  | 27.27  | 0.75  | 0.78  |
| *Gwm106* | 1D | 27.8 | 128 | 11.27  | 19.89  | 0.87  | 0.88  |
| *Gwm95* | 2A | 56.12  | 117 | 26.76  | 45.21  | 0.73  | 0.66  |
| *Gwm339* | 2A | 56.12  | 156 | 29.11  | 32.18  | 0.72  | 0.73  |
| *Gwm388* | 2B | 58 | 166 | 28.57  | 36.27  | 0.74  | 0.68  |
| *Gwm120* | 2B | 89.18  | 134 | 39.35  | 39.63  | 0.75  | 0.76  |
| *Gwm210* | 2D | 17.31  | 188 | 21.62  | 20.88  | 0.82  | 0.83  |
| *Wmc18* | 2D | 45.88  | 243 | 37.07  | 39.16  | 0.73  | 0.72  |
| *Barc310* | 3A | 23.40  | 196 | 44.35  | 45.83  | 0.65  | 0.64  |
| *Barc12* | 3A | 25.32  | 184 | 22.41  | 32.14  | 0.67  | 0.74  |
| *Wmc78* | 3B | 29.55  | 256 | 15.15  | 27.78  | 0.73  | 0.72  |
| *Gwm77* | 3B | 46.36 | 161 | 17.70  | 23.15  | 0.82  | 0.81  |
| *Gwm52* | 3D | 64.26  | 144 | 44.44  | 43.75  | 0.62  | 0.65  |
| *Cfd152* | 3D | 101.18  | 288 | 35.11  | 38.20  | 0.66  | 0.69  |
| *Gwm397* | 4A | 68.74  | 173 | 17.94  | 25.00  | 0.82  | 0.80  |
| *Gwm637* | 4A | 93.86  | 173 | 26.83  | 22.89  | 0.76  | 0.77  |
| *Gwm368* | 4B | 35.57 | 244 | 34.03  | 39.86  | 0.59  | 0.64  |
| *Gwm375* | 4B | 41.38  | 163 | 44.35  | 43.75  | 0.59  | 0.64  |
| *Gwm624* | 4D | 112.75  | 124 | 39.72  | 36.96  | 0.72  | 0.75  |
| *Gwm609* | 4D | 115.7 | 111 | 39.58  | 43.33  | 0.72  | 0.71  |
| *Cfd39* | 5A | 83.19  | 157 | 21.62  | 21.21  | 0.82  | 0.82  |
| *Wmc524* | 5A | 101.92  | 221 | 36.84  | 39.36  | 0.65  | 0.63  |
| *Gwm544* | 5B | 41.41 | 171 | 16.13  | 20.73  | 0.80  | 0.82  |
| *Gwm540* | 5B | 44.63  | 127 | 17.36  | 26.63  | 0.79  | 0.79  |
| *Gwm192* | 5D | 8 | 200 | 16.39  | 33.33  | 0.76  | 0.74  |
| Gwm182 | 5D | 50.98  | 158 | 29.48  | 40.32  | 0.65  | 0.61  |
|  |  |  | 160 | 39.55  | 36.02  |  |  |
| *Barc3* | 6A | 66.01  | 197 | 38.19  | 38.61  | 0.67  | 0.66  |
| *Wmc201* | 6A | 109.11  | 247 | 25.37  | 38.96  | 0.68  | 0.72  |
| *Wmc486* | 6B | 6.05 | 204 | 48.18  | 42.42  | 0.61  | 0.60  |
| *Gwm361* | 6B | 105.85  | 135 | 40.13  | 48.04  | 0.65  | 0.52  |
| *Gwm469* | 6D | 39.00  | 172 | 14.89  | 29.69  | 0.80  | 0.78  |
| *Gwm194* | 6D | 100.42  | 129 | 43.05  | 47.92  | 0.63  | 0.60  |
| *Wmc158* | 7A | 0.00  | 363 | 13.48  | 27.17  | 0.79  | 0.75  |
|  |  |  | 365 | 9.22  | 33.70  |  |  |
|  |  |  | 369 | 29.08  | 8.70  |  |  |
|  |  |  | 371 | 21.28  | 6.52  |  |  |
| Wmc479 | 7A | 29.00  | 196 | 42.86  | 28.57  | 0.64  | 0.73  |
|  |  |  | 198 | 32.14  | 28.57  |  |  |
| *Gwm333* | 7B | 46.00  | 150 | 20.14  | 27.47  | 0.69  | 0.70  |
| *Wmc276* | 7B | 108.04  | 304 | 26.83  | 24.05  | 0.77  | 0.79  |
| *Cfd31* | 7D | 45.24  | 244 | 26.00  | 33.33  | 0.77  | 0.79  |
| *Barc172* | 7D | 148.29  | 172 | 29.63  | 33.33  | 0.76  | 0.73  |
|  |  |  |  |  |  |  |  |