**Table 5:** Genetic diversity indices revealed by 67 SSR markers on 430 wild, weedy and cultivated rice accessions.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Marker type** | **Major Allele Frequency** | **No of rare alleles** | **Allele No** | **PIC** | **Ne** | **Ho** | **He** | **Fis** | **Fit** | **Fst** | **Nm** |
| RM125 | 0.67 | 1 | 5 | 0.47 | 1.48 | 0.18 | 0.23 | 0.23 | 0.75 | 0.67 | 0.12 |
| RM1 | 0.34 | 1 | 7 | 0.72 | 2.3 | 0.22 | 0.46 | 0.52 | 0.67 | 0.31 | 0.55 |
| RM263 | 0.45 | 1 | 5 | 0.69 | 1.98 | 0.43 | 0.43 | 0.02 | 0.37 | 0.36 | 0.45 |
| RM337 | 0.53 | 0 | 4 | 0.46 | 1.61 | 0.02 | 0.24 | 0.9 | 0.97 | 0.65 | 0.14 |
| RM211 | 0.51 | 2 | 5 | 0.54 | 1.38 | 0.04 | 0.19 | 0.8 | 0.88 | 0.41 | 0.36 |
| RM154 | 0.4 | 0 | 5 | 0.62 | 1.68 | 0.13 | 0.28 | 0.53 | 0.82 | 0.62 | 0.15 |
| RM180 | 0.56 | 0 | 5 | 0.54 | 1.06 | 0.04 | 0.23 | 0.84 | 0.96 | 0.73 | 0.09 |
| RM167 | 0.81 | 5 | 8 | 0.28 | 1.46 | 0 | 0.23 | 1 | 1 | 0.58 | 0.18 |
| RM164 | 0.5 | 2 | 7 | 0.58 | 1.52 | 0.01 | 0.25 | 0.97 | 0.99 | 0.68 | 0.12 |
| RM251 | 0.86 | 3 | 8 | 0.24 | 2 | 0.1 | 0.38 | 0.74 | 0.86 | 0.48 | 0.27 |
| RM110 | 0.56 | 2 | 6 | 0.41 | 1.92 | 0.37 | 0.44 | 0.15 | 0.5 | 0.41 | 0.36 |
| RM322 | 0.87 | 3 | 6 | 0.22 | 1.83 | 0.35 | 0.38 | 0.09 | 0.45 | 0.4 | 0.38 |
| RM206 | 0.6 | 6 | 13 | 0.57 | 1.39 | 0.03 | 0.3 | 0.89 | 0.96 | 0.65 | 0.13 |
| RM84 | 0.54 | 3 | 11 | 0.63 | 2.14 | 0.31 | 0.47 | 0.33 | 0.59 | 0.39 | 0.39 |
| RM216 | 0.79 | 2 | 7 | 0.33 | 1.39 | 0.04 | 0.21 | 0.82 | 0.95 | 0.7 | 0.11 |
| RM6344 | 0.52 | 5 | 9 | 0.55 | 1.67 | 0.12 | 0.3 | 0.59 | 0.85 | 0.62 | 0.15 |
| RM307 | 0.86 | 1 | 7 | 0.24 | 1.7 | 0.08 | 0.27 | 0.69 | 0.89 | 0.64 | 0.14 |
| RM333 | 0.52 | 1 | 9 | 0.49 | 1.96 | 0.09 | 0.33 | 0.74 | 0.89 | 0.58 | 0.18 |
| RM153 | 0.9 | 1 | 6 | 0.18 | 1.55 | 0.07 | 0.25 | 0.71 | 0.9 | 0.65 | 0.13 |
| RM5 | 0.74 | 3 | 9 | 0.42 | 1.66 | 0.19 | 0.33 | 0.43 | 0.76 | 0.58 | 0.18 |
| RM475 | 0.36 | 2 | 5 | 0.65 | 0.88 | 0.05 | 0.2 | 0.77 | 0.95 | 0.78 | 0.07 |
| RM6 | 0.37 | 1 | 8 | 0.61 | 1.64 | 0.05 | 0.31 | 0.83 | 0.93 | 0.58 | 0.18 |
| RM11 | 0.76 | 4 | 6 | 0.38 | 1.65 | 0.04 | 0.3 | 0.87 | 0.93 | 0.49 | 0.26 |
| RM17 | 0.54 | 0 | 4 | 0.53 | 1.49 | 0.2 | 0.29 | 0.31 | 0.68 | 0.54 | 0.21 |
| RM19 | 0.92 | 1 | 4 | 0.14 | 1.13 | 0.01 | 0.12 | 0.89 | 0.98 | 0.83 | 0.05 |
| RM21 | 0.47 | 5 | 7 | 0.64 | 1.47 | 0.07 | 0.26 | 0.73 | 0.88 | 0.54 | 0.21 |
| RM23 | 0.44 | 4 | 8 | 0.60 | 1.45 | 0.03 | 0.24 | 0.87 | 0.96 | 0.67 | 0.12 |
| RM24 | 0.67 | 1 | 4 | 0.40 | 1.65 | 0.03 | 0.31 | 0.91 | 0.95 | 0.51 | 0.24 |
| RM25 | 0.41 | 1 | 6 | 0.60 | 1.51 | 0 | 0.29 | 1 | 1 | 0.67 | 0.13 |
| RM42 | 0.46 | 3 | 5 | 0.53 | 1.26 | 0.01 | 0.18 | 0.92 | 0.97 | 0.57 | 0.19 |
| RM31 | 0.5 | 3 | 7 | 0.62 | 1.62 | 0 | 0.28 | 1 | 1 | 0.57 | 0.19 |
| RM30 | 0.74 | 2 | 7 | 0.41 | 1.58 | 0.01 | 0.27 | 0.97 | 0.99 | 0.62 | 0.15 |
| RM29 | 0.91 | 2 | 5 | 0.15 | 1.34 | 0 | 0.19 | 1 | 1 | 0.73 | 0.09 |
| RM26 | 0.86 | 1 | 4 | 0.23 | 1.37 | 0 | 0.21 | 1 | 1 | 0.67 | 0.12 |
| RM22 | 0.94 | 0 | 2 | 0.10 | 0.89 | 0 | 0.13 | 1 | 1 | 0.83 | 0.05 |
| RM14 | 0.61 | 1 | 3 | 0.37 | 0.85 | 0.12 | 0.17 | 0.31 | 0.86 | 0.8 | 0.06 |
| RM171 | 0.91 | 0 | 2 | 0.15 | 1.09 | 0 | 0.13 | 1 | 1 | 0.79 | 0.07 |
| RM335 | 0.53 | 4 | 7 | 0.42 | 1.21 | 0 | 0.11 | 0.98 | 1 | 0.82 | 0.06 |
| RM44 | 0.44 | 2 | 8 | 0.64 | 1.86 | 0.17 | 0.38 | 0.55 | 0.78 | 0.52 | 0.23 |
| RM49 | 0.86 | 3 | 5 | 0.23 | 0.9 | 0.11 | 0.15 | 0.28 | 0.84 | 0.78 | 0.07 |
| RM50 | 0.39 | 2 | 5 | 0.60 | 1.3 | 0.03 | 0.2 | 0.84 | 0.95 | 0.71 | 0.1 |
| RM55 | 0.8 | 1 | 4 | 0.31 | 1.42 | 0.11 | 0.23 | 0.53 | 0.63 | 0.21 | 0.95 |
| RM60 | 0.95 | 0 | 3 | 0.09 | 1.35 | 0 | 0.14 | 1 | 1 | 0.7 | 0.11 |
| RM80 | 0.79 | 1 | 9 | 0.36 | 2.19 | 0.3 | 0.45 | 0.32 | 0.61 | 0.42 | 0.34 |
| RM105 | 0.37 | 0 | 5 | 0.63 | 1.67 | 0.19 | 0.35 | 0.44 | 0.71 | 0.48 | 0.27 |
| RM118 | 0.66 | 4 | 7 | 0.52 | 1.27 | 0.07 | 0.18 | 0.63 | 0.89 | 0.7 | 0.11 |
| RM126 | 0.73 | 2 | 4 | 0.38 | 1.1 | 0.02 | 0.06 | 0.68 | 0.96 | 0.88 | 0.03 |
| RM129 | 0.58 | 3 | 6 | 0.41 | 1.42 | 0.07 | 0.23 | 0.7 | 0.9 | 0.67 | 0.12 |
| RM133 | 0.48 | 5 | 7 | 0.43 | 1.18 | 0.09 | 0.09 | 0.07 | 0.67 | 0.64 | 0.14 |
| RM144 | 0.81 | 1 | 5 | 0.30 | 1.37 | 0.03 | 0.25 | 0.86 | 0.95 | 0.66 | 0.13 |
| RM152 | 0.5 | 3 | 8 | 0.60 | 1.71 | 0.09 | 0.32 | 0.71 | 0.87 | 0.55 | 0.2 |
| RM134 | 0.82 | 0 | 4 | 0.26 | 1.41 | 0.15 | 0.24 | 0.38 | 0.64 | 0.42 | 0.35 |
| RM136 | 0.81 | 2 | 7 | 0.29 | 1.77 | 0.5 | 0.31 | -0.6 | 0.27 | 0.55 | 0.21 |
| RM159 | 0.89 | 3 | 7 | 0.19 | 1.77 | 0.41 | 0.37 | -0.1 | 0.47 | 0.52 | 0.23 |
| RM161 | 0.92 | 0 | 4 | 0.14 | 1.44 | 0.08 | 0.26 | 0.68 | 0.88 | 0.64 | 0.14 |
| RM162 | 0.9 | 0 | 3 | 0.17 | 1.21 | 0.03 | 0.14 | 0.8 | 0.95 | 0.73 | 0.09 |
| RM184 | 0.84 | 4 | 13 | 0.28 | 1.5 | 0.33 | 0.27 | -0.2 | 0.5 | 0.59 | 0.17 |
| RM205 | 0.75 | 2 | 7 | 0.41 | 1.89 | 0.34 | 0.4 | 0.16 | 0.57 | 0.49 | 0.26 |
| RM207 | 0.73 | 7 | 14 | 0.44 | 2.11 | 0.13 | 0.48 | 0.73 | 0.85 | 0.44 | 0.32 |
| RM209 | 0.36 | 5 | 12 | 0.66 | 1.99 | 0.03 | 0.4 | 0.93 | 0.97 | 0.5 | 0.25 |
| RM212 | 0.71 | 2 | 10 | 0.42 | 1.95 | 0.33 | 0.43 | 0.24 | 0.6 | 0.48 | 0.27 |
| RM213 | 0.88 | 2 | 6 | 0.21 | 1.84 | 0.31 | 0.39 | 0.19 | 0.53 | 0.42 | 0.34 |
| RM215 | 0.85 | 2 | 5 | 0.24 | 1.16 | 0.02 | 0.09 | 0.82 | 0.98 | 0.86 | 0.04 |
| RM219 | 0.91 | 0 | 3 | 0.15 | 1.51 | 0 | 0.25 | 1 | 1 | 0.54 | 0.21 |
| RM220 | 0.47 | 2 | 8 | 0.60 | 1.8 | 0.19 | 0.36 | 0.48 | 0.73 | 0.48 | 0.27 |
| RM224 | 0.4 | 1 | 6 | 0.60 | 1.91 | 0.05 | 0.36 | 0.86 | 0.93 | 0.5 | 0.25 |
| RM225 | 0.37 | 12 | 19 | 0.72 | 2.08 | 0.31 | 0.47 | 0.35 | 0.63 | 0.42 | 0.34 |
| **Mean** | **0.66** | **2.18** | **6.49** | **0.41** | **1.54** | **0.12** | **0.27** | **0.62** | **0.83** | **0.59** | **0.2** |

Where,PIC: Polymorphic Information Content; Ho: Observed Heterozygosity; He: Expected Heterozygosity; Fis: Wrights Fixation Index; Fit: Total Inbreeding Coefficient; Fst: Genetic differentiation.