

Supplementary Table 3. Eigenvalues and eigenvectors of oat accessions for the diversity in quantitative and qualitative traits.

Agronomic traits	Eigenvectors ^z							
	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8
First heading date	0.412	-0.167	-0.057	-0.002	0.113	0.122	0.055	0.072
Heading date	0.424	-0.120	-0.042	-0.053	0.140	0.130	0.080	0.089
Maturity date	0.391	-0.116	-0.120	0.057	0.084	0.107	-0.013	0.044
Plant height	0.353	0.213	-0.033	-0.037	0.084	0.117	-0.111	-0.196
Panicle length	0.304	0.355	0.075	0.054	0.066	0.132	-0.110	-0.202
Flag leaf length	0.122	0.398	0.153	0.224	-0.044	-0.144	0.286	0.199
Flag leaf width	0.330	0.035	-0.136	0.182	-0.105	-0.282	0.139	0.227
Panicle density	0.050	0.455	0.037	0.121	-0.091	0.122	-0.183	-0.371
Thousand grain weight	-0.151	0.114	-0.492	0.144	-0.265	-0.045	-0.138	-0.201
Lemma length	0.076	0.258	-0.475	-0.054	0.010	0.097	0.091	0.024
Lemma width	-0.066	0.054	-0.591	-0.015	-0.155	-0.088	0.057	0.261
Growth habit	-0.157	-0.038	-0.145	-0.181	0.157	0.527	0.676	-0.202
Frequency of recurved flag leaf	-0.056	0.331	0.246	0.133	-0.194	-0.177	0.499	0.130
Leaf sheath waxy bloom	0.024	-0.021	-0.140	-0.179	0.477	-0.651	0.204	-0.484
Panicle shape	-0.148	0.064	-0.105	0.399	0.618	-0.002	-0.071	0.362
Attitude of branches	-0.241	0.235	0.001	0.185	0.376	0.238	-0.160	0.027
Degree of seed shattering	-0.053	-0.227	-0.040	0.610	-0.060	0.036	0.103	-0.328
Lemma color	-0.102	0.317	-0.009	-0.469	0.130	-0.030	-0.112	0.192
Eigenvalue	4.74	3.151	2.037	1.369	1.13	1.046	0.849	0.716
Contribution (%)	26.33	17.5	11.32	7.6	6.28	5.81	4.71	3.98
Cumulative contribution (%)	26.33	43.84	55.15	62.76	69.04	74.85	79.56	83.54

^zThe eigenvectors of PC1 to PC8 represent the first to eighth principal components, respectively. Values in bold indicate eigenvectors with absolute values ≥ 0.30 .