

**Table S2.** Qualitative agromorphological traits classes included in the initial collection of 522 accessions and the primary set.

<b>Trait</b>	<b>Class</b>	<b>522 accessions (%)</b>	<b>Primary set (%)</b>
Awnedness	Awnless	23.5	29.8
	1- 3 cm	0.8	0.5
	3-8 cm	29.8	49.5
	> 8 cm	45.9	20.2
Awn colour	Awnless	23.6	29.8
	White	38.9	32.4
	Black in the base	13.8	23.4
	Red to brown	23.8	14.4
Spike density	Lax	86.8	85.1
	Intermediate	9.9	8.5
	Dense	3.1	5.9
	Very dense	0.2	0.5
Glume hairiness	Hairless	84.3	85.6
	Low	6.3	2.1
	High	9.4	12.2
Glume colour	White	57.0	62.2
	Red to brown	37.9	35.6
	Black	5.2	2.1
Seed colour	White	36.9	41.0
	Red	63.1	59.0