

**Table S6.** Comparison of main agronomic traits between the *Wx* transgenic lines and their wild types under normal field condition

Features	WY (wild type)	Antisense <i>Wx</i> gene		Over-expression of <i>Wx</i>	
		WY-WxA-1	WY-WxA-2	WY-WxO-1	WY-WxO-2
Amylose content (%)	15.43±0.42	1.17±0.29	2.63±0.36	22.34±0.22	24.02±0.54
Days to heading (d)	90.75±2.48	91.36±1.17	90.97±9.43	89.64±4.23	90.17±9.43
Plant height (cm)	105.47±1.25	104.63±2.86	102.50±1.10	103.37±2.01	102.13±2.10
Length of main panicle (cm)	17.06±0.27	17.19±0.43	17.36±0.78	17.04±0.48	16.75±0.12
No. of productive tillers per plant	9.13±0.74	9.17±0.12	8.93±0.53	9.27±0.31	9.57±0.91
Grains No. per panicle	136.27±12.02	138.02±6.40	132.26±5.46	144.35±3.61	146.39±15.53
Seed setting (%)	85.01±1.31	85.42±0.55	82.58±1.48	85.73±0.43	84.35±1.21
Grain weight (g/1000-grain)	24.32±0.59	22.92±0.32*	23.01±0.31	24.02±0.42	24.80±0.88

\* means the least significant difference at 0.05 probability level, when compared with the wild type; no label means no significant difference.