

Table S1 Influence of seed dressing on wheat growth and yield parameters (Xian County 2017)

Treatments	Wheat growth at seedling stage				Parameters at adult stage			
	Density pl/m ²	Tiller/plan t	Secondary roots	Fertile tillers /m ²	grains/spike	TGW (g)	Yield/ kg/m ²	Increased yield (%)
Cruiser Plus	1474±18.89 ^{a†}	4.4±0.45 ^a	15.0±0.73 ^a	611±22.66 ^a	35.5±0.49 ^a	42.2±0.47 ^{ab}	0.778±0.02 ^a	6.0
Celest	1453±22.22 ^a	3.7±0.13 ^b	12.3±0.45 ^b	628±24.97 ^a	35.1±0.57 ^a	40.9±1.12 ^{cd}	0.766±0.02 ^{ab}	4.2
Cruiser Plus+Horizon				626±27.69 ^a	35.4±0.43 ^a	41.1±0.67 ^{bc}	0.774±0.02 ^a	5.4
Celest+Horizon				618±23.59 ^a	35.2±0.50 ^a	42.7±0.84 ^a	0.789±0.03 ^a	7.5
Control	1480±15.19 ^a	3.5±0.15 ^b	10.0±0.50 ^c	618±24.83 ^a	35.2±0.54 ^a	39.8±.94 ^d	0.734±0.04 ^b	
F	2.868	12.372	85.832	0.390	0.454	9.131	2.631	
<i>df</i>	2	2	2	4	4	4	4	
<i>p</i> -value	0.096	0.001	0	0.813	0.768	0	0.065	

†Note: Different lowercase letters marked following the mean values identify significantly different means (Duncans' new multiple-range test ($p < 0.05$))

Table S2 Relative control efficacy of the two agents in the field and their combined treatments (Xian County 2017)

Treatments	Seedling stage		Adult stage		Increased control efficacies (%)	
	DI	RCE (%)	DI	RCE (%)	Dressing +Spraying vs. Dressing	Cruiser Plus vs. Celest
Cruiser Plus	4.30±1.09 ^{c†}	58.61	12.89± 2.30 ^{bc}	49.42	-	22.46
Celest	6.11±0.38 ^b	41.19	15.20±0.45 ^b	40.36	-	-
Cruiser Plus+Horizon	-	-	10.22±2.01 ^c	59.92	21.24	32.58
Celest+Horizon	-	-	13.97±0.96 ^b	45.19	11.99	-
Control	10.39±0.56 ^a	-	25.49±1.43 ^a	-	-	-
F	53.251		40.98			
<i>df</i>	2		4			

<i>p</i> -value	0	0	6
-----------------	---	---	---

†Note: Different lowercase letters marked following the mean values identify significantly different means (Duncans' new multiple-range test, $p < 0.05$, $n = 3$).