

**Supplementary Table S5.** Seed set ratio of maize as effect of pollination time and temperature treatments on the 4th day after anthesis.

Pollination time in the morning	Control temperature (30/20°C; daily max. temperature/daily min. temperature)		High temperature (40/30°C; daily max. temperature/daily min. temperature)		Reference
	Seed set (%)	Standard deviation	Seed set (%)	Standard deviation	
7:00-8:00	84.5	4	82.2	4.8	Ref. 1
8:00-9:00	84.3	2.4	81.1	3.8	
9:00-10:00	80.6	3.9	60.7	5	
10:00-11:00	79.2	1.2	50.8	12.2	
11:00-12:00	82.7	2.5	45.8	2.4	

**Reference**

1. Wang, Y. Effect of pollination time on fertilization and fruiting of maize at high temperature. China Agricultural University, MA thesis (2024).