

Table S1. Meteorological data of examined locations in three consecutive years during grain filling period

	Year 1	Year 2	Year 3
BT			
Average temperature (°C)	19.3	22.6	19.5
Average min. temperature (°C)	11.9	15.3	13.1
Average max. temperature (°C)	27.3	29.5	26.1
No. days with temp > 30 °C	18	31	17
Precipitation (mm)	34.0	105.4	140.2
SM			
Average temperature (°C)	19.9	21.9	18.7
Average min. temperature (°C)	13.6	13.2	11.9
Average max. temperature (°C)	26.8	30.7	25.8
No. days with temp > 30 °C	19	38	11
Precipitation (mm)	89.4	126.2	236.4
KI			
Average temperature (°C)	19.6	22.7	20.1
Average min. temperature (°C)	12.3	14.3	12.9
Average max. temperature (°C)	26.3	31.1	28.3
No. days with temp > 30 °C	12	36	26
Precipitation (mm)	118.0	66.6	144.0
NS			
Average temperature (°C)	20.0	22.8	20.1
Average min. temperature (°C)	13.7	15.3	13.6
Average max. temperature (°C)	26.7	29.8	26.8
No. days with temp > 30 °C	11	31	20
Precipitation (mm)	184.6	108.6	227.4
SO			
Average temperature (°C)	19.4	22.3	19.5
Average min. temperature (°C)	12.6	15.0	13.1
Average max. temperature (°C)	26.0	29.1	25.8
No. days with temp > 30 °C	8	28	15
Precipitation (mm)	119.6	119.0	168.2
SU			
Average temperature (°C)	19.7	22.7	20.1
Average min. temperature (°C)	12.4	14.3	13.2
Average max. temperature (°C)	26.6	29.8	26.4
No. days with temp > 30 °C	16	30	19
Precipitation (mm)	155.2	182.0	164.4
VR			
Average temperature (°C)	19.7	23.0	20.0
Average min. temperature (°C)	13.1	15.5	13.4
Average max. temperature (°C)	26.5	30.5	27.7
No. days with temp > 30 °C	12	35	22
Precipitation (mm)	106.0	125.8	162.8

BT, Bačka Topola; SM, Sremska Mitrovica; KI, Kikinda; NS, Novi Sad; SO, Sombor; SU, Subotica