

Supplementary material

Table S.1. Overview of root mean squared error (RMSE),  $R^2$  and adjusted  $R^2$  for the linear and quadratic models of all predictors when GDD in July is included in the model.

	Predictors	Linear			Quadratic		
		RMSE	R2	Adj. R2	RMSE	R2	Adj. R2
GDD	March	480	0.100	0.038	437	0.333	0.234
GDD	April	470	0.143	0.084	440	0.340	0.242
GDD	May	481	0.104	0.042	443	0.320	0.220
GDD	June	482	0.107	0.046	443	0.323	0.222
GDD	August	469	0.160	0.102	441	0.349	0.253
GDD	March-August	475	0.140	0.081	441	0.343	0.246
Rainy	days March	482	0.094	0.032	435	0.335	0.237
Rainy	days April	481	0.097	0.035	443	0.324	0.223
Rainy	days May	452	0.197	0.141	426	0.356	0.260
Rainy	days June	466	0.150	0.091	<b>415</b>	0.389	0.299
Rainy	days July	472	0.136	0.076	419	0.389	0.299
Rainy	days August	470	0.137	0.077	426	0.365	0.271
Rainy	days March-August	479	0.106	0.045	458	0.323	0.222

Table S.2. Overview of root mean squared error (RMSE),  $R^2$  and adjusted  $R^2$  for the linear and quadratic models of all predictors when GDD in July and the number of rainy days in June are included in the model.

	Predictors	Linear			Quadratic		
		RMSE	R2	Adj. R2	RMSE	R2	Adj. R2
GDD	March	484	0.153	0.062	443	0.420	0.281
GDD	April	472	0.188	0.101	441	0.420	0.280
GDD	May	480	0.162	0.073	451	0.397	0.253
GDD	June	478	0.173	0.084	445	0.400	0.255
GDD	August	468	0.212	0.127	446	0.417	0.277
Rainy	days March	478	0.165	0.075	436	0.409	0.267
Rainy	days April	473	0.180	0.092	447	0.401	0.257
Rainy	days May	450	0.247	0.167	436	0.429	0.292
Rainy	days July	468	0.205	0.120	<b>415</b>	0.471	0.344
Rainy	days August	465	0.207	0.122	437	0.441	0.306

Table S.3. Overview of root mean squared error (RMSE),  $R^2$  and adjusted  $R^2$  for the linear and quadratic models of all predictors when GDD in July and rainy days in June and July are included in the model.

	Predictors	Linear			Quadratic		
		RMSE	R2	Adj. R2	RMSE	R2	Adj. R2
GDD	March	485	0.209	0.092	447	0.498	0.323
GDD	April	473	0.246	0.134	437	0.510	0.339
GDD	May	485	0.209	0.091	447	0.484	0.304
GDD	June	481	0.224	0.109	440	0.495	0.319
GDD	August	476	0.248	0.136	452	0.493	0.317
Rainy	days March	468	0.251	0.140	432	0.491	0.315
Rainy	days April	470	0.242	0.130	452	0.478	0.296
Rainy	days May	460	0.273	0.165	426	0.524	0.358
Rainy	days August	473	0.241	0.128	428	0.529	0.366

Table S.4. Overview of root mean squared error (RMSE),  $R^2$  and adjusted  $R^2$  for quadratic models of predictors for mean rain and rainy days when GDD in July is included in the model, when using complete observations for both.

Predictors	RMSE	R2	Adj. R2
Rainy days March	435	0.335	0.237
Rainy days April	443	0.324	0.223
Rainy days May	426	0.356	0.260
Rainy days June	<b>415</b>	0.389	0.299
Rainy days July	419	0.389	0.299
Rainy days August	426	0.365	0.271
Rainy days March--August	458	0.323	0.222
Rain mean March	446	0.351	0.255
Rain mean April	435	0.372	0.279
Rain mean May	417	0.397	0.308
Rain mean June	439	0.327	0.228
Rain mean July	433	0.386	0.295
Rain mean August	453	0.377	0.285
Rain mean March--August	473	0.314	0.213