

Table S5. The minimum and maximum correlation values for winter wheat (country level) between residuals (differences between estimated and HCSO yield data) and different meteorological parameters (d_b and d_e are the starting and ending days of averaging, respectively).

Meteorological parameter	d_b-d_e	Correlation (%)	Correlation (R^2)
$T_{\min-}$	80–100	–15.02	0.023
$T_{\min+}$	140–180	65.96	0.435
$T_{\max-}$	-	-	-
$T_{\max+}$	140–180	44.67	0.200
$Prec-$	60–120	–38.21	0.146
$Prec+$	120–160	28.69	0.082
$Rad-$	140–160	–21.93	0.048
$Rad+$	50–100	36.69	0.135
SWC_1-	60–80	–38.14	0.145
SWC_1+	150–170	11.49	0.013
SWC_2-	60–80	–40.17	0.161
SWC_2+	150–170	2.42	0.001
SWC_3-	50–150	–42.69	0.182
SWC_3+	-	-	-