



Table S1. loading weights of the first three principal components

	PC1	PC2	PC3
610	0.294	-0.195	0.092
680	0.301	-0.141	0.129
730	0.235	-0.349	-0.039
760	0.179	-0.411	0.033
810	0.159	-0.414	0.163
860	0.163	-0.373	0.259
680610	0.087	-0.067	0.068
730610	-0.194	-0.226	-0.283
760610	-0.267	-0.192	-0.128
810610	-0.293	-0.186	0.042
860610	-0.284	-0.124	0.139
730680	-0.201	-0.237	-0.254
760680	-0.258	-0.227	-0.144
810680	-0.263	-0.210	-0.007
860680	-0.285	-0.184	0.066
760730	-0.246	-0.015	0.217
810730	-0.227	-0.013	0.380
860730	-0.165	0.085	0.444
810760	-0.045	0.012	0.351
860760	-0.040	0.064	0.393
860810	0.026	-0.021	-0.003

Figure S1. (a) Maize plot showing no leaf rolling (LR-) and a plot with leaf rolling (b)



Figure S2. Precipitation during the months of June and July 2021 with 50-year average based percentiles of dry and wet conditions for Osijek. Gray boxes show measurement times, and the red box shows external validation set measurement time.

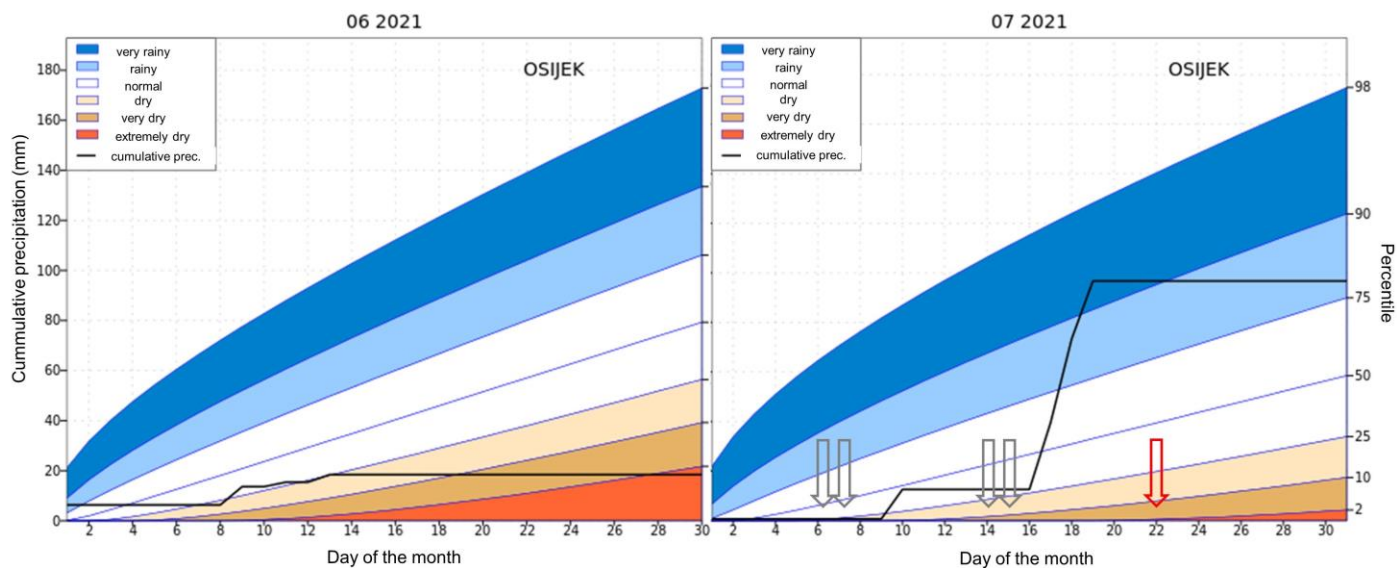


Figure S3. Learning rates of neural network algorithms from 85% random subset training procedure.

