

Prediction of flowering time based on multimodal fusion and temporal meteorological data in rapeseed

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Received July 26, 2026;

Accepted September 28, 2026.

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SUPPLEMENTARY MATERIALS

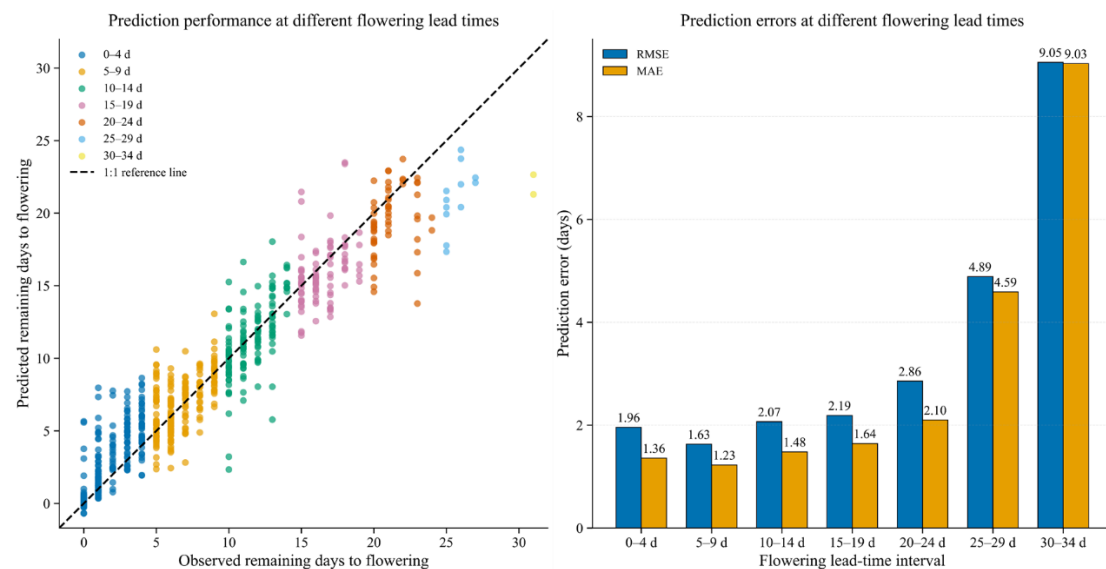


Fig. S1 Prediction performance and prediction errors at different flowering lead times. (a) Scatter plot of predicted remaining days to flowering versus observed remaining days to flowering for different flowering lead-time intervals (0-4, 5-9, 10-14, 15-19, 20-24, 25-29, and 30-34 days). The dashed line is the 1:1 reference line. (b) RMSE and MAE of the prediction at different flowering lead-time intervals. Blue bars represent RMSE, and orange bars represent MAE. Values above the bars are the corresponding error values.

Table S1 Comparison of FPS, inference time, and memory consumption of different models on GPU

Model	FPS	Inference time (ms per img)	Memory	Hardware
MobileNet V2	174.98	5.71	28.18	GPU
ResNet 18	388.15	2.58	62.46	GPU
DenseNet 121	40.43	24.74	45.22	GPU
MobileNet V3	175.11	5.71	16.51	GPU
EfficientNet-B0	115.17	8.68	34.78	GPU

Table S2 Model prediction performance stratified by lead time to flowering

Time group (day)	N	RMSE (day)	MAE (day)
0–4	216	1.9579	1.3579
5–9	194	1.6292	1.2258
10–14	132	2.0672	1.4793
15–19	86	2.1884	1.6424
20–24	54	2.8551	2.0990
25–29	12	4.8861	4.5895
30–34	2	9.0545	9.0291