



**Figure S1.** Satellite images presenting the dynamics of crops in three consecutive months in infrared: June (plant development in the green phase), July (matured grain fields without chlorophyll), and August (mostly bare soil is visible).

**Table S1.** A number of GPS records for each animal in selected months: \* individuals killed during the study.

Animal ID	Sex	Age (years)	June	July	August	September	Total
GIGA04	F	1		118	118		236
GIGA06	M	4		141	116		257
GIGA10	M	6			121		121
GIGA12	M	8	41	48	58	44	191
GIGA17	M	3	104	101	85	67	357
GIGA25*	F	1	54	49	57	59	219
GIGA26	F	4	85	88	74	46	293
GIGA27*	F	2	212	46			258
GIGA28*	F	2	59	72	77	24	232
GIGA30*	F	4	107	93	87	45	332
<b>Total</b>			<b>662</b>	<b>756</b>	<b>793</b>	<b>285</b>	<b>2,496</b>

**Table S2.** Satellite imagery used for the analysis of land cover Biała Podlaska powiat and Piaseczno powiat in subsequent months of the summer period 2020.

Powiat	Date	Nr of imagery
Piaseczno	01.06.2020	L2A_T34UDC_A025816_20200601T095036_2020-06-01
	01.06.2020	L2A_T34UEC_A025816_20200601T095036_2020-06-01
	28.06.2020	L2A_T34UDC_A026202_20200628T094036_2020-06-28
	28.06.2020	L2A_T34UEC_A026202_20200628T094036_2020-06-28
	01.07.2020	L2A_T34UDC_A026245_20200701T095501_2020-07-01
	01.07.2020	L2A_T34UEC_A026245_20200701T095501_2020-07-01
	26.07.2020	L2A_T34UDC_A017694_20200726T095032_2020-07-26
	26.07.2020	L2A_T34UEC_A017694_20200726T095032_2020-07-26
	15.08.2020	L2A_T34UDC_A017980_20200815T095033_2020-08-15
	15.08.2020	L2A_T34UEC_A017980_20200815T095033_2020-08-15
	14.09.2020	L2A_T34UDC_A018409_20200914T095031_2020-09-14
	14.09.2020	L2A_T34UEC_A018409_20200914T095031_2020-09-14
Biała Podlaska	08.06.2020	L2A_T34UFC_A025916_20200608T094037_2020-06-08
	05.07.2020	L2A_T34UFC_A026302_20200705T093039_2020-07-05
	25.07.2020	L2A_T34UFC_A026588_20200725T093039_2020-07-25
	14.08.2020	L2A_T34UFC_A026874_20200814T093040_2020-08-14

**Table S3.** Model selection (A) and Parameter estimates (B) of wild boar presence locations and random points.

**Table S3A.** Ranking of the models (including null model) predicting the presence of wild boar in given habitats ( $\Delta AIC$ — $AIC$  differences;  $\omega_i$ —Akaike weights; Rank—rank of the models based on  $AIC_c$  values); variables: see methods.

Model	$\Delta AIC$	$\omega_i$	Rank
<b>MONTH + HABITAT + MONTH*HABITAT</b>	<b>0.00</b>	<b>1.00</b>	<b>1</b>
HABITAT	155.98	0.00	2
MONTH + HABITAT	160.64	0.00	3
Null model	240.09	0.00	4
MONTH	246.05	0.00	5

**Table S3B.** Parameter estimates of the generalized linear binary model; 0\*- reference value. Full model:  $\chi^2=278.094$ ,  $df=19$ ,  $p<0.001$ .

	B	St. Error	$\chi^2$	p	Exp (B)	Lower CI	Upper CI
Intercept	-0.769	0.2775	7.680	0.006	0.463	0.269	0.798
HABITAT (forests)	0.959	0.3073	9.748	0.002	2.610	1.429	4.767
HABITAT (pastures)	0.340	0.3425	0.983	0.321	1.404	0.718	2.748
HABITAT (mosaics)	1.020	0.5753	3.146	0.076	2.774	0.898	8.568
HABITAT (arable)	1.099	0.3223	11.624	<0.001	3.001	1.595	5.644
HABITAT (other)	0*						
MONTH (June)	-0.962	0.4096	7.493	0.006	3.069	1.375	6.850
MONTH (July)	-0.112	0.5206	27.072	<0.001	15.012	5.411	41.649
MONTH (August)	1.115	0.8516	0.080	0.777	1.272	0.240	6.752
MONTH (September)	0*						
MONTH (June)*HABITAT (forests)	1.121	0.4096	7.493	0.006	3.069	1.375	6.850
MONTH (July)*HABITAT (forests)	-0.020	0.3415	0.003	0.954	0.980	0.502	1.915
MONTH (August)*HABITAT (forests)	-1.193	0.3601	10.977	<0.001	0.303	0.150	0.614
MONTH (September)*HABITAT (forests)	0*						
MONTH (June)*HABITAT (pastures)	2.709	0.5206	27.072	<0.001	15.012	5.411	41.649
MONTH (July)*HABITAT (pastures)	-0.357	0.5127	0.484	0.486	0.700	0.256	1.912

MONTH (August)*HABITAT (pastures)	-0.411	0.4394	0.877	0.349	0.663	0.280	1.568
MONTH (September)*HABITAT (pastures)	0*						
MONTH (June)*HABITAT (arable)	0.013	0.4278	0.001	0.976	1.013	0.438	2.343
MONTH (July)*HABITAT (arable)	0.315	0.3643	0.747	0.387	1.370	0.671	2.798
MONTH (August)*HABITAT (arable)	-1.740	0.3759	21.421	<0.001	0.176	0.084	0.367
MONTH (September)*HABITAT (arable)	0*						
MONTH (June)*HABITAT (mosaics)	0.241	0.8516	0.080	0.777	1.272	0.240	6.752
MONTH (July)*HABITAT (mosaics)	-0.050	0.6391	0.006	0.937	0.951	0.272	3.328
MONTH (August)*HABITAT (mosaics)	-1.353	0.6220	4.735	0.030	0.258	0.076	0.874
MONTH (September)*HABITAT (mosaics)	0*						
MONTH (June)*HABITAT (other)	0*						
MONTH (July)*HABITAT (other)	0*						
MONTH (August)*HABITAT (other)	0*						
MONTH (September)*HABITAT (other)	0*						

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