

Table S3. Average winter wheat yields (t/ha) in trial locations - observed/recorded/measured (OBS), adjusted by linear mixed model (LMM) and assessed by explanatory, enironmental (ANCOVA) model (EEM)

Location	2015			2016			2017			2018			2019			Mean 2015-2019		
	Obs.	LMM	EEM	Obs.	LMM	EEM	Obs.	LMM	EEM	Obs.	LMM	EEM	Obs.	LMM	EEM	Obs.	LMM	EEM
Cicibór Duży	9.87	8.79	8.69	5.82	6.51	7.84	7.61	6.84	7.92	5.70	6.32	6.59	6.39	6.79	7.68	7.08	7.05	7.74
Czesławice	10.41	9.37	8.90	7.48	8.14	8.51	9.19	8.41	8.09	9.88	10.49	9.54	8.13	8.54	8.52	9.02	8.99	8.71
Głębokie	7.53	6.45	8.38	4.35	6.61	8.46	9.13	8.33	7.47	5.69	6.37	8.44	7.55	7.96	8.59	6.85	7.14	8.27
Głubczyce	11.30	10.27	9.96	10.64	11.31	9.90	11.46	10.68	10.68	10.19	10.80	9.85	10.02	10.39	9.92	10.72	10.69	10.06
Krościna Mała	9.93	8.85	8.39	7.27	7.95	7.35	8.78	7.98	8.63	9.56	10.19	7.63	8.37	8.74	8.59	8.78	8.74	8.12
Marianowo	9.86	8.78	7.99	n.d.	n.d.	n.d.	10.69	9.88	7.56	7.45	8.06	7.85	5.19	5.59	7.83	8.30	8.08	7.81
Masłowice	8.17	7.13	6.35	7.14	7.82	7.98	10.19	9.38	8.84	7.32	7.98	7.78	8.21	8.61	8.22	8.21	8.18	7.83
Nowa Wieś Ujska	8.69	7.60	7.49	5.12	5.80	7.93	6.93	6.13	7.78	6.14	6.83	6.95	6.19	6.58	8.08	6.61	6.59	7.65
Pawłowice	8.79	7.70	8.86	6.22	6.89	8.21	7.88	7.10	9.21	4.94	5.63	7.87	7.02	7.47	8.70	6.97	6.96	8.57
Radostowo	11.06	10.02	9.78	3.98	7.98	9.41	10.42	9.64	7.63	10.02	10.68	9.13	10.45	10.85	8.78	9.19	9.84	8.95
Rarwino	9.25	8.16	8.04	n.d.	n.d.	n.d.	8.57	7.80	8.26	6.66	7.29	7.73	7.42	7.83	7.62	7.98	7.77	7.91
Rychliki	11.06	9.99	8.83	8.20	8.88	8.63	10.06	9.26	8.45	9.14	9.75	8.71	7.15	7.56	8.30	9.12	9.09	8.58
Seroczyn	8.98	7.89	7.65	7.47	8.14	7.73	7.06	9.26	6.00	5.58	6.23	6.55	9.62	10.00	7.93	7.74	7.71	7.17
Skołoszów	10.68	9.60	9.70	9.21	9.88	9.24	10.27	9.46	9.58	8.66	9.27	9.12	8.30	8.69	9.65	9.42	9.38	9.46
Słupia	11.25	10.19	9.26	7.96	8.80	8.67	11.27	10.49	10.29	10.45	11.01	8.78	9.25	9.62	9.21	10.04	10.02	9.24
Świebodzin	12.00	10.92	7.62	9.19	9.86	8.27	n.d.	n.d.	n.d.	6.85	7.44	7.66	7.48	7.88	7.73	8.88	9.02	7.82
Tomaszów Bolesławiecki	7.10	6.02	5.89	6.46	7.13	6.65	6.96	6.16	7.51	3.27	3.92	5.93	5.28	5.66	7.32	5.81	5.78	6.66
Węgrzce	7.33	6.29	9.65	10.27	10.94	11.10	10.31	9.59	10.55	8.87	9.52	10.24	8.44	8.84	9.36	9.04	9.04	10.18
Zybiszów	8.56	7.51	8.06	9.44	10.12	9.09	9.27	8.48	9.19	9.93	10.57	8.17	10.87	11.23	8.74	9.61	9.58	8.65
MEAN	9.57	8.50	8.39	7.42	8.40	8.52	9.23	8.43	8.54	7.70	8.34	8.13	7.96	8.36	8.46	8.38	8.40	8.39