

**Table S1.** Selected information on locations of post-registration multi-environment trials (PVTs) over five cropping seasons (from 2014/2015 to 2018/2019).

Location	Longitude/ Latitude/ Altitude	Province *	Cropping Seasons	The Points Attributed to Arable Land Suitability Group (Designation) in 2018	Soil pH	Drought	No. of cultivars	Mean Yield (t/ha)
Cicibór Duży	23.117/ 52.083/ 114	Lubelskie	2014/2015	70 (4. Very good for rye)	5.9	No drought	48	9.87
			2015/2016	70 (4. Very good for rye)	6.4	No drought	48	5.82
			2016/2017	70 (4. Very good for rye)	5.9	No drought	53	7.61
			2017/2018	70 (4. Very good for rye)	5.9	4	34	5.70
			2018/2019	70 (4. Very good for rye)	5.9	No drought	41	6.39
Czesławice	22.267/ 51.317/ 206	Lubelskie	2014/2015	80 (2. Good for wheat)	6.0	No drought	48	10.41
			2015/2016	80 (2. Good for wheat)	6.1	No drought	48	7.48
			2016/2017	80 (2. Good for wheat)	6.0	No drought	53	9.19
			2017/2018	94 (1. Very good for wheat)	6.2	No drought	34	9.88
			2018/2019	80 (2. Good for wheat)	6.1	No drought	41	8.13
Głębokie	18.438/ 52.645/ 85	Kujawsko-Pomorskie	2014/2015	80 (2. Good for wheat)	6.2	No drought	49	7.53
			2015/2016	80 (2. Good for wheat)	6.2	No drought	35	4.35
			2016/2017	80 (2. Good for wheat)	6.6	No drought	53	9.13
			2017/2018	80 (2. Good for wheat)	6.3	2	35	5.69
			2018/2019	80 (2. Good for wheat)	6.2	No drought	43	7.55
Głubczyce	17.833/ 50.183/ 280	Opolskie	2014/2015	94 (1. Very good for wheat)	6.5	No drought	49	11.30
			2015/2016	94 (1. Very good for wheat)	6.7	No drought	51	10.64
			2016/2017	94 (1. Very good for wheat)	6.1	No drought	52	11.46
			2017/2018	94 (1. Very good for wheat)	5.7	No drought	36	10.19
			2018/2019	94 (1. Very good for wheat)	6.5	No drought	42	10.02

Krościna Mała	16.950/ 51.367/ 106	Dolnośląskie	2014/2015	80 (2. Good for wheat)	6.8	No drought	49	9.93
			2015/2016	70 (4. Very good for rye)	6.4	No drought	48	7.27
			2016/2017	80 (2. Good for wheat)	6.0	No drought	54	8.78
			2017/2018	70 (4. Very good for rye)	6.9	3	38	9.56
			2018/2019	80 (2. Good for wheat)	6.5	No drought	46	8.37
Marianowo	22.117/ 53.217/ 140	Podlaskie	2014/2015	70 (4. Very good for rye)	5.9	No drought	48	9.86
			2015/2016	52 (4. Good for rye)	No data	No drought	No data	No data
			2016/2017	70 (4. Very good for rye)	6.1	No drought	50	10.69
			2017/2018	70 (4. Very good for rye)	5.7	2	32	7.45
			2018/2019	70 (4. Very good for rye)	5.7	No drought	41	5.19
Masłowice	18.633/ 51.250/ 174	Łódzkie	2014/2015	52 (4. Good for rye)	6.1	No drought	48	8.17
			2015/2016	70 (4. Very good for rye)	6.1	No drought	47	7.14
			2016/2017	70 (4. Very good for rye)	6.4	No drought	50	10.19
			2017/2018	70 (4. Very good for rye)	6.5	2	35	7.32
			2018/2019	70 (4. Very good for rye)	6.1	2	42	8.21
Nowa Wieś Ujska	16.750/ 53.033/ 105	Wielkopolskie	2014/2015	70 (4. Very good for rye)	6.1	No drought	49	8.69
			2015/2016	70 (4. Very good for rye)	5.6	No drought	49	5.12
			2016/2017	70 (4. Very good for rye)	6.2	No drought	52	6.93
			2017/2018	70 (4. Very good for rye)	5.4	5	37	6.14
			2018/2019	70 (4. Very good for rye)	5.9	2	44	6.19
Pawłowice	18.483/ 50.467/ 240	Śląskie	2014/2015	80 (2. Good for wheat)	6.1	No drought	48	8.79
			2015/2016	80 (2. Good for wheat)	5.9	No drought	49	6.22
			2016/2017	80 (2. Good for wheat)	6.3	No drought	56	7.88
			2017/2018	80 (2. Good for wheat)	6.7	No drought	39	4.94
			2018/2019	80 (2. Good for wheat)	6.5	No drought	41	7.02

Radostowo	18.750/ 53.983/ 40	Pomorskie	2014/2015	94 (1. Very good for wheat)	6.5	No drought	49	11.06
			2015/2016	94 (1. Very good for wheat)	6.5	No drought	26	3.98
			2016/2017	80 (2. Good for wheat)	7.0	No drought	52	10.42
			2017/2018	94 (1. Very good for wheat)	7.0	No drought	38	10.02
			2018/2019	94 (1. Very good for wheat)	6.9	No drought	45	10.45
Rarwino	14.833/ 53.933/10	Zachodnio-Pomorskie	2014/2015	70 (4. Very good for rye)	5.1	No drought	49	9.25
			2015/2016	No data	No data	No drought	No data	No data
			2016/2017	70 (4. Very good for rye)	6.6	No drought	60	8.57
			2017/2018	70 (4. Very good for rye)	5.9	2	34	6.66
			2018/2019	70 (4. Very good for rye)	5.9	No drought	43	7.42
Rychliki	19.533/ 53.983/ 80	Warmińsko-Mazurskie	2014/2015	80 (2. Good for wheat)	5.7	No drought	48	11.06
			2015/2016	80 (2. Good for wheat)	5.8	No drought	48	8.20
			2016/2017	80 (2. Good for wheat)	5.8	No drought	51	10.06
			2017/2018	80 (2. Good for wheat)	6.4	2	34	9.14
			2018/2019	80 (2. Good for wheat)	6.0	No drought	42	7.15
Seroczyn	21.933/ 52.000/ 150	Mazowieckie	2014/2015	70 (4. Very good for rye)	6.6	No drought	48	8.98
			2015/2016	70 (4. Very good for rye)	6.5	No drought	47	7.47
			2016/2017	52 (4. Good for rye)	5.8	No drought	50	7.06
			2017/2018	70 (4. Very good for rye)	6.8	4	35	5.58
			2018/2019	70 (4. Very good for rye)	6.7	No drought	43	9.62
Skołoszów	22.733/ 49.883/ 230	Podkarpackie	2014/2015	94 (1. Very good for wheat)	5.7	No drought	48	10.68
			2015/2016	94 (1. Very good for wheat)	5.9	No drought	47	9.21
			2016/2017	94 (1. Very good for wheat)	5.9	No drought	52	10.27
			2017/2018	80 (2. Good for wheat)	5.8	No drought	33	8.66
			2018/2019	94 (1. Very good for wheat)	6.5	No drought	41	8.30

Słupia	19.967/ 50.633/ 290	Świętokrzyskie	2014/2015	80 (2. Good for wheat)	5.6	No drought	48	11.25
			2015/2016	80 (2. Good for wheat)	6.5	No drought	47	7.96
			2016/2017	80 (2. Good for wheat)	4.8	No drought	53	11.27
			2017/2018	80 (2. Good for wheat)	5.5	No drought	36	10.45
			2018/2019	80 (2. Good for wheat)	6.1	No drought	46	9.25
Świebodzin	15.583/ 52.233/ 90	Lubuskie	2014/2015	61 (3. Limited for wheat)	5.2	No drought	47	12.00
			2015/2016	61 (3. Limited for wheat)	4.9	No drought	49	9.19
			2016/2017	80 (2. Good for wheat)	7.4	No drought	No data	No data
			2017/2018	70 (4. Very good for rye)	4.9	4	33	6.85
			2018/2019	70 (4. Very good for rye)	5.8	3	41	7.48
Tomaszów Bolesławiecki	15.683/ 51.283/ 200	Dolnośląskie	2014/2015	52 (4. Good for rye)	6.5	No drought	49	7.10
			2015/2016	52 (4. Good for rye)	5.7	No drought	48	6.46
			2016/2017	61 (3. Limited for wheat)	6.0	No drought	54	6.96
			2017/2018	52 (4. Good for rye)	6.0	No drought	38	3.27
			2018/2019	61 (3. Limited for wheat)	6.6	No drought	46	5.28
Węgrzce	19.983/ 50.117/ 285	Małopolskie	2014/2015	94 (1. Very good for wheat)	6.6	No drought	48	7.33
			2015/2016	94 (1. Very good for wheat)	5.8	No drought	47	10.27
			2016/2017	94 (1. Very good for wheat)	6.0	No drought	52	10.31
			2017/2018	94 (1. Very good for wheat)	6.1	No drought	36	8.87
			2018/2019	94 (1. Very good for wheat)	6.5	No drought	40	8.44
Zybiszów	16.917/ 51.067/ 130	Dolnośląskie	2014/2015	80 (2. Good for wheat)	6.3	No drought	49	8.56
			2015/2016	94 (1. Very good for wheat)	6.5	No drought	48	9.44
			2016/2017	94 (1. Very good for wheat)	6.3	No drought	54	9.27
			2017/2018	80 (2. Good for wheat)	6.4	No drought	38	9.93
			2018/2019	80 (2. Good for wheat)	6.3	No drought	46	10.87

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\* The first level administrative units of Poland (Polish: województwo, officially translated into English as voivodship). In the paper, we use the term province with the same meaning.