

Table 1s. Monthly accumulated precipitation (mm) in 2013–2023 from Warsaw-Okęcie meteorological station (located 13 km from Obory)*

	2013	2014	2015	2016	2017	2018	2019	2023
January	49.4	48.2	38.4	20.6	19.1	29.8	34.0	43.6
February	24.9	13.8	6.3	67.0	39.1	7.2	30.6	32.2
March	22.9	34.6	30.2	32.8	39.0	19.3	<u>27.9</u>	23.8
April	47.9	44.0	35.2	31.4	48.3	13.0	3.2	48.1
May	133.2	89.5	38.6	28.2	48.6	35.4	78.5	42.2
June	84.8	73.9	19.2	55.7	85.5	22.3	18.2	42.2
July	20.2	72.5	59.0	70.8	89.5	85.1	36.9	46.2
August	60.4	68.0	8.4	60.9	48.2	62.6	33.8	88.6
September	92.4	7.6	58.4	11.4	127.2	44.8	60.4	9.9
October	30.1	5.8	<u>39.8</u>	109.9	<u>82.5</u>	<u>51.7</u>	16.1	<u>73.1</u>
November	<u>28.4</u>	<u>15.6</u>	52.7	<u>41.3</u>	45.1	11.2	12.6	61.7
December	18.7	81.8	17.3	63.3	33.0	51.0	38.0	61.9
Total	613.3	555.3	403.5	593.3	705.1	433.4	390.2	573.5

* – underlined are precipitations in the months when EC_a measurements took place

Table 2s. Monthly average air temperatures (°C) in 2013–2023 from Warsaw-Okęcie meteorological station (located 13 km from Obory)

	2013	2014	2015	2016	2017	2018	2019	2023
January	-3.50	-2.60	1.40	-2.90	-3.70	0.80	-1.70	3.40
February	-0.40	1.90	1.10	3.60	-0.80	-3.20	3.20	1.40
March	-1.80	7.00	5.50	4.20	6.10	0.90	<u>6.10</u>	4.50
April	8.00	10.7	8.60	9.70	7.70	13.7	10.6	9.20
May	15.5	14.5	13.4	16.0	14.6	18.3	13.6	14.0
June	18.6	16.4	17.7	19.5	18.5	19.7	22.9	18.8
July	20.0	21.4	20.1	20.0	18.9	21.4	19.3	20.9
August	19.7	18.2	23.1	18.8	19.7	21.1	21.2	21.1
September	12.4	15.1	15.4	16.4	14.0	16.2	14.7	18.5
October	10.4	9.70	<u>7.60</u>	7.60	<u>10.0</u>	<u>10.4</u>	11.3	<u>11.0</u>
November	<u>5.60</u>	<u>4.80</u>	5.30	<u>3.20</u>	4.90	0.40	6.30	3.90
December	2.40	0.90	4.70	1.20	2.50	1.60	3.30	2.10
Year average	8.91	9.83	10.3	9.78	9.37	10.1	10.9	10.7

* – underlined are air temperatures in the months when EC_a measurements took place

Table 3s. Parameters of the spherical semivariograms of shallow (EC_{sh}) and deep (EC_{dp}) soil electrical conductivity and model adjustment (RMSE, R^2), respectively, for eight and seven soil surveys.

Sampling Year		Nugget (C_0)	Sill (C_0+C_1)	Range (A)	RMSE	R^2
2013		0.176	1.240	231.6	0.250	0.967
2014		0.120	2.261	242.9	0.719	0.978
2015		0.271	1.586	98.6	0.238	0.97
2016	EC_{sh}	0.151	1.130	239.1	0.124	0.978
2017		0.256	1.949	221.0	0.291	0.982
2018		0.174	1.519	241.5	0.224	0.979
2019		0.495	2.502	126.1	1.741	0.922
2023		0.297	2.396	237.8	0.311	0.989
2013		0.530	3.305	239.5	1.93	0.963
2014		-*	-	-	-	-
2015		0.206	1.056	173.3	0.203	0.954
2016	EC_{dp}	0.404	2.953	240.9	1.511	0.962
2017		0.653	3.47	235.1	1.65	0.964
2018		0.452	2.048	242.7	0.773	0.950
2019		0.201	2.190	63.9	1.143	0.913
2023		0.210	1.050	177.6	0.175	0.958

* – the EC_{dp} was measured, but the whole set of data contained quite a large amount of spurious

(negative) EC_a values; therefore, it was not used for further processing