

Table S2. Experimental results of the flour properties according to variety and growing conditions, n=3 repetitions

Wheat variety	Location	Year	MV (AJ)	FN (s)	AA (CUg ⁻¹)	AM (%)	C-granule (%)	B-granule (%)	A-granule (%)	To (°C)	Tp (°C)	Te (°C)	H (Jg ⁻¹)
Apač	BT	Year 1	1430	313	0.13	25.9	9.15	17.94	72.93	57.7	61.7	66.0	9.7
Pobeda	BT	Year 1	730	385	0.09	28.0	8.50	14.60	74.41	54.7	59.5	63.7	8.4
Zvezdana	BT	Year 1	1700	411	0.08	26.1	11.53	18.73	69.81	54.7	59.4	63.7	9.4
Apač	SM	Year 1	1500	421	0.14	27.8	10.71	18.22	71.11	57.1	61.3	65.5	9.8
Pobeda	SM	Year 1	470	318	0.13	28.6	10.07	19.72	69.24	56.5	60.5	64.8	9.4
Zvezdana	SM	Year 1	1130	397	0.09	25.7	9.71	16.53	73.78	56.4	60.6	64.8	8.3
Apač	SO	Year 1	1585	353	0.10	26.1	6.77	15.34	77.85	56.7	61.0	65.1	9.4
Pobeda	SO	Year 1	720	357	0.10	28.5	8.96	17.81	73.18	54.5	58.9	63.4	8.0
Zvezdana	SO	Year 1	1120	393	0.09	25.5	10.90	20.51	68.74	54.4	59.3	63.8	8.7
Apač	BT	Year 2	1490	449	0.11	26.8	6.54	15.74	77.77	57.6	61.7	65.9	10.2
Pobeda	BT	Year 2	1150	432	0.08	28.7	7.24	14.61	78.24	56.7	61.1	65.0	9.3
Zvezdana	BT	Year 2	1610	447	0.07	27.0	8.84	16.44	74.83	57.1	61.5	65.8	9.3
Apač	SM	Year 2	2000	428	0.11	28.1	7.10	15.68	77.24	56.7	61.0	65.0	9.3
Pobeda	SM	Year 2	960	457	0.08	29.1	6.30	15.43	78.33	55.6	60.2	64.3	8.8
Zvezdana	SM	Year 2	1580	523	0.06	26.2	10.11	19.70	70.15	56.8	60.8	64.6	7.9
Apač	SO	Year 2	1670	428	0.11	27.5	7.84	13.91	78.30	58.7	61.9	66.0	10.3
Pobeda	SO	Year 2	1350	457	0.08	28.6	7.12	14.32	78.63	56.4	60.8	65.1	8.2
Zvezdana	SO	Year 2	1680	523	0.08	26.7	8.96	17.78	73.18	56.7	61.1	65.2	8.7
Apač	BT	Year 3	740	433	0.17	27.9	10.13	19.91	70.04	55.8	60.9	66.2	10.0
Pobeda	BT	Year 3	160	297	0.22	28.3	9.22	15.63	75.16	53.9	58.8	63.4	8.3
Zvezdana	BT	Year 3	555	406	0.12	27.5	9.21	21.14	69.73	54.3	58.7	63.8	9.3
Apač	SM	Year 3	1020	474	0.15	26.2	11.61	16.66	71.64	54.8	59.6	64.6	10.1
Pobeda	SM	Year 3	360	441	0.15	28.2	8.44	18.27	73.31	54.6	58.3	62.9	9.7
Zvezdana	SM	Year 3	1020	484	0.11	26.0	11.94	19.45	68.58	54.2	58.4	63.4	9.9
Apač	SO	Year 3	1030	444	0.15	25.9	8.15	17.64	74.31	55.1	59.9	65.0	9.1
Pobeda	SO	Year 3	680	497	0.14	27.5	11.13	18.37	70.53	54.4	58.9	64.4	9.1
Zvezdana	SO	Year 3	1000	473	0.13	25.5	9.55	21.73	68.77	53.9	58.4	63.6	8.5

MV – maximum viscosity; FN – falling number; AA – alpha-amylase activity; AM – amylose content; To – gelatinization onset temperature; Tp – peak temperature; Te – end temperature (Te), ΔH – enthalpy of gelatinization. Enthalpies were calculated on a starch dry weight basis.