

Table S1. The main agronomic parameters and nutritional composition of the biomass recorded on the assessed cultivars, across the harvest times, during the two growing seasons

Treatment	Yield dry weight (t ha ⁻¹)		CWP (g DM L m ⁻²)		N-efficiency (t DM kg N ⁻¹)		NDF (% of DM)		uNDF (% of DM)		NEL (kcal kg DM ⁻¹)	
Cultivar - growing season 2013-2014												
Altezza	12.6	bc	2.34	abc	0.13	bc	57.5	bc	15.6	b	1235	cd
Artico	10.9	d	2.05	d	0.11	d	52.3	e	13.4	ef	1317	ab
Caravaggio	11.7	cd	2.2	bcd	0.12	cd	53.5	e	14.8	cd	1307	b
Ethic	13.1	ab	2.43	ab	0.13	ab	49.3	f	12.7	fg	1347	a
Giorgione	12.0	cd	2.22	bcd	0.12	cd	56.5	cd	15.5	bc	1213	def
Ludwig	13.1	ab	2.41	ab	0.13	ab	58.8	ab	15.0	bcd	1202	ef
Masaccio	11.9	cd	2.07	d	0.12	cd	55.8	d	15.2	bcd	1256	c
Norenos	13.8	a	2.55	a	0.14	a	59.2	a	16.6	a	1187	f
Paledor	11.3	d	2.09	cd	0.11	d	52.7	e	12.3	g	1301	b
Papageno	11.1	d	2.06	d	0.11	d	57.6	bc	13.8	e	1227	cde
Sailor	12.6	bc	2.33	abc	0.13	bc	57.7	bc	14.7	d	1238	cd
<i>p-value</i>	p<0.001		p<0.01		p<0.05		p<0.001		p<0.001		p<0.001	
Treatment	Yield dry weight (t ha ⁻¹)		CWP (kg DM L ⁻¹)		N-efficiency (t DM kg N ⁻¹)		NDF (% of DM)		uNDF (% of DM)		NEL (kcal kg DM ⁻¹)	
Cultivar - growing season 2014-2015												
Altezza	12.8	bc	2.88		0.13	bc	57.1	c	14.5	abc	1264	b
Artico	11.3	d	2.64		0.11	d	53.1	f	12.8	ef	1316	a
Caravaggio	11.5	d	2.48		0.11	d	53.4	ef	13.7	cde	1316	a
Ethic	12.3	bcd	2.77		0.12	bcd	52.3	f	13.5	de	1326	a
Giorgione	12.9	bc	2.94		0.13	bc	56.13	cd	15.3	a	1258	b
Ludwig	13.1	bc	2.87		0.13	bc	59.06	ab	14.8	ab	1247	b
Masaccio	12.0	cd	2.82		0.12	cd	56.96	c	15.1	ab	1269	b
Norenos	14.5	a	3.17		0.15	a	60.02	a	15.4	a	1215	c
Paledor	13.1	bc	2.99		0.13	bc	52.23	f	11.3	g	1332	a
Papageno	13.2	b	2.89		0.13	b	55.01	de	12.3	f	1308	a
Sailor	13.4	ab	2.91		0.13	ab	57.48	bc	14.2	bcd	1257	b
<i>p-value</i>	p<0.001		n.s.		p<0.001		p<0.001		p<0.001		p<0.001	

DM = dry matter; CWP = crop water productivity; N-efficiency = nitrogen efficiency; neutral detergent fiber (NDF); undigested NDF (uNDF); NEL = net energy for lactation; different letters indicate statistically significant differences (within a variable) at p < 0.05. n.s. = not significant.