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Influence of cutting height on biomass yield and quality of miscanthus genotypes

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1 Supplementary material

2 Appendix 1 Weather conditions for the seven days before the miscanthus harvest at Ihinger Hof, south Germany (LTZ 2020).

Date in 2015	Temperature 2m Ø in °C	Precipitation Σ in mm	Wind Ø in m/s	Hours of sunshine Σ in h	Humidity [%]	Date in 2018	Temperature 2m Ø in °C	Precipitation Σ in mm	Wind Ø in m/s	Hours of sunshine Σ in h	Humidity [%]
11.03.	5.2	0.3	1.8	10.9	73.9	12.03.	8.0	0.5	3.8	2	87.9
12.03.	2.2	0.0	1.5	6.5	71.9	13.03.	5.5	2.4	4.7	2	88.8
13.03.	1.9	0.0	2.1	2.9	72.2	14.03.	4.9	0.1	1.6	8	81.4
14.03.	1.6	0.0	1.5	0.0	83.4	15.03.	4.3	0.0	2.0	3	85.0
15.03.	3.6	0.0	2.0	3.8	79.7	16.03.	6.0	0.2	2.7	4	81.8
16.03.	5.6	0.0	1.0	5.5	72.3	17.03.	-0.9	0.2	2.7	0	96.7
17.03.	8.6	0.0	1.2	6.4	66.7	18.03.	-4.1	1.7	3.2	1	90.5
Average	4.1	0.0	1.6	5.1	74.3	Average	3.4	0.7	3.0	2.9	87.5

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4 Appendix 2 Significant differences in dry matter yield [$t \cdot ha^{-1}$] per genotype, year and fraction. Fractions with the same letter show no significant differences within a year and genotype.

Fraction	OPM 2		OPM 6		OPM 7		OPM 9		OPM 10		OPM 11	
	2015	2018	2015	2018	2015	2018	2015	2018	2015	2018	2015	2018
1	b	b	b	b	c	b	b	b	b	b	b	b
2	c	c	c	c	b	c	c	c	c	c	c	c
3	d	d	d	d	d	d	d	d	d	d	d	d
4	e	e	e	e	e	e	e	e	e	e	e	e
5	a	a	a	a	a	a	a	a	a	a	a	a

Statistical significance of effects of fraction <.0001. Data for 2018 was transformed.

6 Appendix 3 Mean ash nitrogen, phosphorus, potassium, and calcium concentration [$mg \cdot g^{-1}$] per genotype and year.

	Ash		Nitrogen		Phosphorus		Potassium		Calcium	
	2015	2018	2015	2018	2015	2018	2015	2018	2015	2018
OPM 2	25.44	22.22	1.98	2.08	0.31	0.83	4.7	7.09	0.83	0.58
OPM 6	21.61	15.51	2.12	1.66	0.54	0.78	3.44	3.71	1.16	0.75
OPM 7	21.99	12.32	2.04	1.61	0.15	0.27	2.01	1.9	1.31	0.72
OPM 9	22.45	14.8	1.85	1.9	0.36	0.66	2.33	3.67	0.89	0.52
OPM 10	28.75	18.84	2.31	1.6	0.32	0.49	3.78	4.1	1.37	0.92
OPM 11	27.05	18.9	2.16	1.42	0.61	0.84	3.8	4.11	0.95	0.70

Ash: year $p < 0.0001$, geno $p = 0.0044$, geno*year $p = 0.1$;
 N: year $p = 0.03$, geno $p = 0.8$, geno*year $p = 0.5$;
 P: year $p < 0.0001$, geno $p = 0.0036$, geno*year $p = 0.0063$;
 K: year $p < 0.0001$, geno $p = 0.0007$, geno*year $p < 0.0001$;
 Ca: year $p < 0.0001$, geno $p = 0.0077$, geno*year $p = 0.2$

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