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Yield performance of 14 novel inter- and intra-species Miscanthus hybrids across Europe

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CHV	Ailanthus Altissima destruction with digger	19- 23/2/18	9/5/18 11/5/18 12/5/18 15/5/18	10 mm 9/5/18 20 mm 18/5/18 20 mm 22- 24/5/18 20 mm 28- 30/5/18 10 mm 6/7/18	GRC 9, 15: S- Metola- chlor	1 l/ha				hand weedin g	n.a.	26/7/18
	Disc plough	26/4/18		20 mm 27/6/18	GRC 1-8, 10, 11, 13, 14: Pendi- methalin	2.5 l/ha	20/5/18	No	n.a.	Bofix Dicamb a	3.5 l/ha 1l/ha	24/8/18
	Power harrow	7/5/18		23 mm per week 2/7/18- 2/9/18								
OLI	Round up	26/3/18										
	Ploughing	10- 11/4/18	25- 27/4/18 30/4/18 2/5/18 15/5/18	2 mm after planting	Stomp	1.25 l/ha	after planting	Yes	after planting	Cato A	30 g/ha	
	Stone rake and crushing	17- 18/4/18			Spectrum	2.5 l/ha				Cato B	0.18 l/ha	
	Soil rotovated	just before planting								B 235	1 l/ha	14/7/18
										Mais Banvel	0.4 kg/ha	
ZAG	Soil preparation	25/4/18	GRC 1- 8: 26/4/18- 4/5/18	GRC 1- 8: 28/4/18- 4/5/18	No	n.a.	n.a.	No	n.a.	Tarot 25 WG + Trend 90	40 g/ha	18/6/18 & 4/7/18
			GRC 9 & 15: 7/5/18	GRC 9 & 15: 7/5/18						Deherb an A Extra (2,4-D 600 g/l)	1.2 l/ha	11/6/18
			GRC 10, 11, 13, 14: 9- 10/5/18	GRC 10, 11, 13, 14: 10- 11/5/18						Mecha nical weedin g & mowing	n.a.	23- 24/7/18 28- 29/8/18
PAC1	Power harrow	12/12/18	25- 26/4/18 GRC 9: 28/5/18	15mm 26/4/18	Stomp	2.5 l/ha	2/5/18	No	n.a.	Mecha nical weedin g	n.a.	14/6/18
	Cultivator harrow	25/4/18										
PAC2	Ploughing	19/12/18	27- 29.04. 16/05/18 GRC 15: 03/05/18 GRC 9: 26- 27/05/18	2 mm 27- 29/4/18	Stomp	2.5 l/ha	5/5/18	No	n.a.	Mecha nical weedin g	n.a.	28- 29/6/18
	Power harrow	23/4/18										

Abbreviations used in the table: n.a. not applicable

Supplemental Table 4: The apparent greenness of the plants in autumn in the first, second and third crossing seasons. Data averaged across the four replicate blocks with standard errors added. Not all sites made measurements of greenness in all years therefore blanks are shown.

Strain	Year	TWS	SCH	CHV	OLI	ZAG	PAC 1	PAC 2
GRC 1	1st	8.7 ± 0.2	7.5 ± 0.2	7.7 ± 0.5	8.8 ± 0.1	6.6 ± 0.3	8.8 ± 0.1	8.6 ± 0.1
	2nd	4.9 ± 0.3	5.4 ± 0.2	5.7 ± 0.3	4.8 ± 0.5			
	3rd	7.3 ± 0.3			4.1 ± 0.3	4.3 ± 0.2	6.3 ± 0.2	5.8 ± 0.2
GRC 2	1st	8.7 ± 0.2	7 ± 0	6 ± 0.4	8.3 ± 0.1	6 ± 0.2	8.9 ± 0.1	7.7 ± 0.3
	2nd	3.2 ± 0.5	4.4 ± 0.1	4.5 ± 0.2	4.8 ± 0.4			
	3rd	5.2 ± 0.4			4.7 ± 0.3	5.3 ± 0.4	5.2 ± 0.2	4.5 ± 0.1
GRC 3	1st	8.9 ± 0.1	7.2 ± 0.1	5.8 ± 0.6	7.9 ± 0.2	6.3 ± 0.3	8.6 ± 0.2	8 ± 0.2
	2nd	2.9 ± 0.4	4.3 ± 0.1	4 ± 0.2	3.7 ± 0.5			
	3rd	6 ± 0.5			4.8 ± 0.3	3.1 ± 0.2	5.5 ± 0.2	5.2 ± 0.1
GRC 4	1st	8.9 ± 0.1	6.5 ± 0.2	3.3 ± 0.7	8.1 ± 0.4	6.2 ± 0.4	8.9 ± 0.1	8 ± 0.2
	2nd	1.9 ± 0.3	4 ± 0.2	4 ± 0.4	2.4 ± 0.2			
	3rd	2.6 ± 0.5			4.3 ± 0.3	2.8 ± 0.2	4.4 ± 0.3	4.4 ± 0.3
GRC 5	1st	8.5 ± 0.2	6.8 ± 0.1	3.2 ± 0.3	7.5 ± 0.2	5.2 ± 0.3	8.2 ± 0.3	7.8 ± 0.2
	2nd	4.7 ± 0.4	3.6 ± 0.1	2.8 ± 0.4	4.6 ± 0.3			
	3rd	4.4 ± 0.5			5 ± 0.3	3.5 ± 0.4	4.3 ± 0.2	4.2 ± 0.2
GRC 6	1st	8.6 ± 0.2	7.5 ± 0.2	3.2 ± 0.2	8.7 ± 0.1	6.5 ± 0.3	8.6 ± 0.2	8.2 ± 0.3
	2nd	2.5 ± 0.4	3.5 ± 0.1	4.2 ± 0.2	4.5 ± 0.4			
	3rd	4.8 ± 0.4			5 ± 0.3	3.6 ± 0.4	5.4 ± 0.2	4.8 ± 0.2
GRC 7	1st	8.9 ± 0.1	7 ± 0	6.2 ± 0.7	8.7 ± 0.1	6.8 ± 0.2	8.7 ± 0.1	8.2 ± 0.3
	2nd	1.9 ± 0.2	3.5 ± 0.2	4.4 ± 0.4	5.7 ± 0.4			
	3rd	5.1 ± 0.4			4 ± 0.3	3.4 ± 0.3	5.3 ± 0.2	5 ± 0
GRC 8	1st	8.7 ± 0.2	6.8 ± 0.1	4.4 ± 0.8	8 ± 0.1	5.8 ± 0.3	9 ± 0	7.8 ± 0.5
	2nd	3.7 ± 0.5	4.1 ± 0.1	5 ± 0.3	3.2 ± 0.5			
	3rd	5.3 ± 0.3			4.3 ± 0.4	3 ± 0.2	4.8 ± 0.3	4.9 ± 0.2
GRC 9	1st	8.9 ± 0.1		0 ± 0	8.2 ± 0.2	6.7 ± 0.2	8.9 ± 0.1	9 ± 0
	2nd	5 ± 0.2		5.9 ± 0.5	1.6 ± 0.2			
	3rd	6.2 ± 0.3			5.8 ± 0.2	5.2 ± 0.3	5 ± 0	5.2 ± 0.1
GRC 10	1st	8.7 ± 0.2	7.5 ± 0.2	8.3 ± 0.2	8.4 ± 0.1	7 ± 0.2	8.9 ± 0.1	8.9 ± 0.1
	2nd	8 ± 0	8.5 ± 0.1	8.1 ± 0.1	6.3 ± 0.4			
	3rd	6.5 ± 0.7			3.5 ± 0.3	8 ± 0	5.8 ± 0.1	6.2 ± 0.1
GRC 11	1st	8.3 ± 0.4	8 ± 0.2	8 ± 0	8.3 ± 0.1	7 ± 0.3	8.8 ± 0.1	8.9 ± 0.1
	2nd	7.5 ± 0.2	6.8 ± 0.3	8 ± 0	5.7 ± 0.4			
	3rd	7 ± 0.2			4.5 ± 0.4	7.5 ± 0.1	5.8 ± 0.2	6 ± 0
GRC 13	1st	8.9 ± 0.1	7.2 ± 0.1	8 ± 0.3	7.9 ± 0.2	6.1 ± 0.3	8.9 ± 0.1	8.8 ± 0.1
	2nd	7.3 ± 0.2	7.3 ± 0.2	6.8 ± 0.2	4.2 ± 0.3			
	3rd	6 ± 0.7			4.7 ± 0.2	7.7 ± 0.1	5.8 ± 0.1	6 ± 0
GRC 14	1st	8.8 ± 0.2	7.5 ± 0.2	8 ± 0	8 ± 0.2	7 ± 0.2	8.9 ± 0.1	8.9 ± 0.1
	2nd	7.3 ± 0.2	7.6 ± 0.1	7.6 ± 0.1	3.6 ± 0.3			
	3rd	6.5 ± 0.7			4.6 ± 0.2	6.7 ± 0.3	5.8 ± 0.1	6 ± 0
GRC 15	1st	8.7 ± 0.2	8.2 ± 0.2	6.3 ± 0.6	7.7 ± 0.2	7.5 ± 0.2	9 ± 0	8.4 ± 0.2
	2nd	4.7 ± 0.4	3.9 ± 0.3	4.3 ± 0.2	1 ± 0.3			
	3rd	4.3 ± 0.3			4.8 ± 0.3	5.2 ± 0.2	5.5 ± 0.1	5.8 ± 0.1