



Supplementary Material

Table S1: LS-means of first cut carbohydrate and protein fractions and total carbohydrate content of the 20 tested accessions over two years.

Accession	Carbohydrate fractions (g kg ⁻¹ CHO)				Protein fractions (g kg ⁻¹ N)					Total CHO g kg ⁻¹ DM
	A	B1	B2	C	A	B1	B2	B3	C	
1	370.5 cdef	3.1 a	572.0 abcd	54.5 abc	276.1 ab	93.1 abc	354.8 a	245.0 fg	31.0 abcde	802.9 abcde
2	379.6 cde	2.7 a	565.8bcde	51.9 bcde	285.8 ab	95.5 abc	333.7 abc	253.4 defg	31.7 abcde	805.5 abc
3	378.4 cde	3.0 a	568.4 bcd	50.3 bcde	278.7 ab	104.3 abc	322.7 abc	264.5 abcde	29.8 abcde	787.6 cdefghi
4	398.7 abc	3.5 a	555.0 def	42.7 fg	256.1 b	117.0 a	323.5 abc	273.7 abc	29.7 abcde	779.6 fghi
5	362.9 ef	3.5 a	579.1 abc	54.6 abc	277.3 ab	89.1 bc	349.4 abc	251.7 efg	32.6 ab	802.3 abcde
6	344.5 f	2.8 a	593.3 a	59.3 a	286.6 a	84.1 c	353.2 ab	243.1 g	33.0 a	807.2 ab
7	372.0 cdef	3.9 a	574.1 abcd	50.1 bcde	263.1 ab	102.9 abc	338.7 abc	267.3 abcde	28.1 e	774.2 i
8	376.6 cde	3.4 a	573.5 abcd	46.6 defg	269.0 ab	104.1 abc	322.6 abc	274.5 ab	29.8 abcde	778.2 ghi
9	411.2 a	3.4 a	542.6 f	41.2 g	277.6 ab	104.0 abc	314.8 bc	275.4 ab	28.2 de	796.4 abcdefg
10	409.5 ab	3.0 a	544.2 ef	44.9 efg	263.1 ab	105.6 abc	348.2 abc	253.9 defg	29.2 abcde	809.1 a
11	377.1 cde	3.3 a	568.5 bcd	51.1 bcde	270.3 ab	99.4 abc	342.5 abc	257.4 bcdefg	30.3 abcde	790.0 bcdefghi
12	379.8 bcde	3.0 a	567.5 bcd	49.7 bcdef	270.8 ab	95.1 abc	333.8 abc	271.4 abcd	28.9 bcde	788.6 bcdefghi
13	392.1 abcd	3.2 a	557.7 cdef	46.0 defg	265.8 ab	109.1 ab	330.4 abc	264.2 abcdef	30.5 abcde	797.0 abcdef
14	368.3 def	2.6 a	575.4 abcd	53.7 abc	285.7 ab	90.8 bc	331.1 abc	260.0 abcdefg	32.4 abc	804.9 abc
15	362.5 ef	2.7 a	581.6 ab	53.2 abcd	277.6 ab	103.3 abc	312.6 c	277.0 a	29.6 abcde	785.5 defghi
16	388.4 abcde	2.8 a	561.3 bcdef	47.5 cdefg	264.5 ab	103.6 abc	329.0 abc	273.8 ab	29.1 bcde	784.8 efghi
17	366.7 def	3.4 a	575.2 abcd	54.5 abc	277.8 ab	92.7 bc	341.3 abc	258.8 abcdefg	29.4 abcde	792.9 abcdefgh
18	379.9 bcde	3.2 a	567.5 bcd	49.9 bcdef	272.9 ab	109.6 ab	313.3 c	275.8 ab	28.6 cde	775.3 hi
19	384.3 abcde	3.3 a	563.0 bcdef	49.2 cdef	275.5 ab	102.7 abc	340.2 abc	249.5 efg	32.1 abcd	804.0 abcd
20	359.0 ef	2.7 a	581.8 ab	56.6 ab	292.0 a	90.6 bc	331.2 abc	254.5 cdefg	31.8 abcde	797.8 abcdef
S.E.	5.8	0.2	4.5	1.4	6.1	4.7	9.0	4.7	0.8	3.4

Means followed by different letter(s) within the same column are different at $p < 0.05$; S.E., standard error.

Table S2: LS-means of first cut and annual total nitrogen content of the 20 tested accessions as affected by site x accession interaction over two years

Accession	First cut total N (g kg ⁻¹ DM)			Annual total N (g kg ⁻¹ DM)		
	Asendorf	Malchow	Hohenschulen	Asendorf	Malchow	Hohenschulen
1	14.9 cd	14.7 b	20.3 abcde	18.3 a	20.3 a	18.7 ab
2	14.7 cd	15.9 ab	18.1 bcde	18.5 a	20.3 a	18.1 ab
3	15.2 bcd	17.0 ab	20.6 abcde	18.8 a	21.6 a	18.9 ab
4	17.1 abcd	17.5 ab	22.0 ab	19.5 a	22.4 a	19.0 ab
5	15.3 bcd	16.3 ab	17.6 cde	19.0 a	21.0 a	17.7 b
6	14.8 cd	15.1 b	17.4 de	18.6 a	20.5 a	18.1 ab
7	15.1 cd	18.3 ab	23.5 a	18.8 a	22.3 a	21.6 a
8	16.8 abcd	17.7 ab	20.2 abcde	19.4 a	21.9 a	19.8 ab
9	14.7 cd	16.5 ab	20.4 abcde	18.5 a	22.2 a	20.2 ab
10	14.2 d	16.0 ab	19.0 bcde	18.4 a	21.4 a	19.9 ab
11	19.7 a	17.3 ab	20.4 abcde	21.2 a	22.0 a	21.6 a
12	20.0 a	16.6 ab	20.8 abcde	21.2 a	22.1 a	18.6 ab
13	18.8 abc	16.9 ab	19.3 abcde	20.9 a	21.5 a	18.9 ab
14	18.2 abcd	15.9 ab	17.4 de	20.8 a	20.9 a	19.4 ab
15	18.8 abc	17.1 ab	21.1 abcde	20.4 a	20.9 a	19.6 ab
16	19.8 a	17.3 ab	21.5 abcd	20.9 a	22.2 a	20.2 ab
17	19.5 ab	17.1 ab	19.8 abcd	21.2 a	21.1 a	20.6 ab
18	19.8 a	19.6 a	21.8 abc	21.3 a	23.6 a	21.0 ab
19	18.9 abc	16.4 ab	17.1 e	20.5 a	21.2 a	18.0 ab
20	19.0 abc	15.7 ab	18.9 bcde	20.4 a	20.7 a	18.4 ab
S.E.	0.7			0.6		

Means followed by different letter(s) within the same column are different at $p < 0.05$; S.E., standard error.

2

3