



Résultats des essais variétaux de maïs ensilage 2010

Silomais Hauptversuch 2010

Auteurs

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Caractères / Merkmale

Rendement

- rendement en matière sèche de la plante entière en dt/ha
- Trockensubstanzertrag der ganzen Pflanzen in dt/ha

Précocité

- teneur en matière sèche de la plante entière à la récolte en %
- Trockensubstanzgehalt der ganzen Pflanzen am Erntetag in %

Vigueur au départ

- vigueur au départ de la végétation (note 1 = très bon, note 9 = très mauvais)
- Note 1 = sehr gute, Note 9 = sehr schlechte Jugendentwicklung

Verse en végétation

- % de plantes versées en cours de végétation
- % gelagerte Pflanzen während der Vegetation

Verse à la récolte

- % de plantes versées à la récolte
- % gelagerte Pflanzen zum Zeitpunkt der Ernte

Charbon

- % de plantes attaquées par le charbon
- % Befall mit Beulenbrand

Fusariose

- % de plantes attaquées par la fusariose
- % Befall mit Stängelfäule

Hauteur

- hauteur de la plante en cm, du sol jusqu'à la première branche latérale de la panicule
- Pflanzhöhe in cm, vom Boden bis zum untersten Seitenast der Fahne gemessen

Hauteur de l'épi

- hauteur d'insertion de l'épi supérieur en cm
- Ansatzhöhe des obersten Kolbens in cm

Hauteur relative de l'épi

- Hauteur relative d'insertion de l'épi supérieur par rapport à la hauteur de la plante
- Ansatzhöhe des obersten Kolbens in Relation zur Pflanzhöhe

Floraison

- nombre de jours du semis à 50% de la floraison femelle
- Anzahl Tage zwischen Saat und 50% weiblicher Blüte

Pyrale

- % de plantes endommagées
- % geschädigte Pflanzen (Maiszünsler)

Densité

- densité effective des plantes au m² à la récolte
- Effektive Bestandesdichte bei der Ernte in Pflanzen pro m²

Digestibilité (NIRS)

- Teneur en matière organique digestible (MOD) en g/kg MS
- Gehalt an verdaulicher organischer Substanz (VOS) der künstlich getrockneten ganzen Pflanzen in g/kg TS

Teneur en cellulose brute (NIRS)

- teneur en cellulose brute de la plante entière en g/kg de MS
- Rohfasergehalt der ganzen Pflanzen in g/kg TS

Teneur en protéines (NIRS)

- matière azotée dans la plante entière en g/kg de MS
- Rohproteingehalt der ganzen Pflanzen in g/kg TS

Teneur en amidon (NIRS)

- teneur en amidon de la plante entière en g/kg de MS
- Stärkegehalt der ganzen Pflanze in g/kg TS

NDF (NIRS)

- teneur en fibres de la plante entière (Neutral Detergent Fibre) en g/kg de MS
- Zellwandanteil in der ganzen Pflanze (Neutral Detergent Fibre) in g/kg TS

NEL (NIRS)

- énergie nette pour la lactation en mégajoules par kg de MS
- Nettoenergie Laktation in Megajoules pro kg TS

Calcul de l'indice pour le maïs ensilage / Index-Berechnung für Silomais

- Le calcul de l'indice est obtenu par les valeurs moyennes de chaque critère des deux meilleures variétés standard (= valeur de base). Les indices partiels pondérés de chaque critère sont encore pondérés d'après le nombre d'observations réalisées (nombre de lieux d'essais)

- Als Basis für die Indexberechnung dienen die Merkmalsmittelwerte der zwei besten mitgeprüften Standardsorten (= Basiswert) Zusätzlich zur nachfolgend beschriebenen Gewichtung der Teilindizes werden diese entsprechend der gemachten Anzahl Beobachtungen (Anzahl Versuchsorte) gewichtet

Qualité :

- Teneur en matière organique digestible (MOD) de la plante entière (g/kg MS); facteur de pondération 0.4
- Gehalt an verdaulicher organischer Substanz der ganzen Pflanzen in g/kg TS Gewichtungsfaktor 0.4

Rendement / Ertrag :

- Rendement en matière sèche (en dt/ha) de la variété testée moins la valeur de base; facteur de pondération 0.5
- TS-Ertrag (in dt/ha) der zu beurteilenden Sorte minus Basiswert; Gewichtungsfaktor 0.5

Précocité / Reife :

- Teneur en matière sèche de la plante entière (en %) de la variété testée moins la valeur de base; facteur de pondération 1.25
- Ganzpflanzen-Trockensubstanzgehalt (in %) der zu beurteilenden Sorte abzüglich Basiswert; Gewichtungsfaktor 1.25

Vigueur au départ / Jugendentwicklung :

- Valeur de base moins la note de la variété testée; facteur de pondération 0,5
- Basiswert minus Note der zu beurteilenden Sorte; Gewichtungsfaktor 0,5.

Verse en végétation / Lagerung während Vegetation :

- Valeur de base moins le pourcentage de plantes versées (en %) de la variété testée; facteur de pondération 0,25
- Basiswert minus Anteil gelagerter Pflanzen (in %) der zu beurteilenden Sorte; Gewichtungsfaktor 0,25.

Verse à la récolte / Lagerung bei Ernte :

- Valeur de base moins le pourcentage de plantes versées (en %) de la variété testée; facteur de pondération 0,75
- Basiswert minus Anteil gelagerter Pflanzen (in %) der zu beurteilenden Sorte; Gewichtungsfaktor 0,75.

Plantes cassées à la récolte / Stängelbruch bei Ernte :

- Valeur de base moins le pourcentage de plantes cassées (en %) de la variété testée; facteur de pondération 0,75
- Basiswert minus Anteil gebrochenen Pflanzen (in %) der zu beurteilenden Sorte; Gewichtungsfaktor 0,75.

Charbon / Beulenbrand :

- Valeur de base moins le pourcentage de plantes attaquées (en %) de la variété testée; facteur de pondération 0,25
- Basiswert minus Anteil befallenen Pflanzen (in %) der zu beurteilenden Sorte; Gewichtungsfaktor 0,25.

Indice global / Gesamtindex :

- Somme de tous les indices partiels
- Summe aller Teilindizes

Mais ensilage précoce
série 01

Silomaïs früh
Serie 01

Culture	Série	N ^o .	Lieu	Altitude	Date semis	Date récolte
SM	01	1376	Goumoëns / VD	622	19 mai 10	22 sept. 10
SM	01	1567	Delley / FR	514		
SM	01	1725	Grangeneuve /FR	650	26 avr. 10	28 sept. 10
SM	01	3425	Koppigen / BE	476	25 mai 10	6 oct. 10
SM	01	8330	Liebegg / AG	440	30 avr. 10	29 sept. 10
SM	01	8046	Reckenholz / ZH	440	29 avr. 10	28 sept. 10
SM	01	8193	Eglisau / ZH	390	28 avr. 10	29 sept. 10
SM	01	8566	Ellighausen / TG	517	28 mai 10	22 oct. 10

Maïs ensilage précoce
série 01

Silomaïs früh
Serie 01

Nom	Synonyme	Type d'hybride	Obtenteur	Représentant	Inscrite en	KM	SM
Coxximo		SC	RAGT / F	Fenaco, Yverdon	2006		SM01/S
Pralinia	DSP 29917	SC	DSP / CH	DSP, Delley	2008		SM01/S
Fabregas	KXA 6306	TC	KWS / D	KWS, Basel	2009		SM01/S
Ayrro	LZM 156/77	SC	Limagrain/Advanta / NL	Fenaco, Yverdon	2009		SM01/S
Tiago	DSP 29200	SC	DSP / CH	DSP, Delley	2009		SM01/S
Poya	DSP 38253	TC	DSP / CH	DSP, Delley	2010		SM01/S
AMPEZZO	LZM 157/73	SC	Limagrain / F	Fenaco, Yverdon	2010		SM01/S
Delitop	NX 1480	SC	SYNGENTA / F	Syngenta, Monthey	2004		SM01/T
Amadeo	KX 2030	SC	KWS / D	KWS, Basel	2006		SM11/T
Kontrebass	KXA 7301	TC	KWS / D	KWS, Basel	2010		SM01/T
LG 30.208	LZM 157/70	SC	Limagrain / F	Fenaco, Yverdon	2010		SM01/T
NK Gitago	NX 0795	SC	Syngenta / CH	Syngenta, Monthey	2010		SM01/T
LAURINIO	KXA 8114	TC	KWS / D	KWS, Basel		KM01/e2	SM01/e2
LG 30222	LZM 158/51	SC	Limagrain / F	Fenaco, Yverdon		KM01/e2	SM01/e2
DAS08107	SUM 2221		Dow AgroScience, D	DSP, Delley			SM01/e2
LG 30211	LZM 158/72		Limagrain / F	Fenaco, Yverdon			SM01/e2
EH3014	EH3014	SC	Monsanto	Monsanto, Morges			SM01/e1
SY Montecarlo	NX07057	SC	Syngenta	Syngenta, Monthey		KM01/e1	SM01/e1
SL19174	SL19174		Saatbau Linz	DSP, Delley			SM01/1.
Maxxwell	RH08107	SC	Ragt, F	Fenaco, Yverdon			SM01/e1
Nuxx	RH0771	TC	Ragt, F	Fenaco, Yverdon			SM01/e1
Isanto	SL2375	SC	Saatbau Linz	Hauenstein, Rafz			SM01/e1
Nitro	LZM 158/75	SC	Limagrain / F	Schweizer, Thun			SM01/e1
Klamas	KXA 7332		KWS / D	KWS, Basel		KM01/e1	SM01/e1
EGZ 9108	EGZ 9108	TC	Euralis	Fenaco, Yverdon			SM01/e1

Calcul de l'indice série 01

Index-Berechnung Serie 01

			MOD	Rendement	Précocité (teneur MS)	Vigueur au départ	Verse végétation	Verse récolte	Plantes cassées à la récolte	Charbon	Indice Economique	Indice agronomique	Indice Global
			0.4	0.5	1.25	0.5	0.25	0.75	0.75	0.25			
Nitro	LZM 158/75	e1	3.9	0.4	-1.4	-0.4	-1.0			0.0	4.3	-2.8	1.4
Poya	DSP 38253	* STD	-1.6	3.4	-0.6	0.1	-0.7			-0.1	1.8	-1.4	0.5
LG 30222	LZM 158/51	e2	-1.1	1.6	-0.4	-0.1	0.3			0.1	0.6	-0.1	0.5
EH3014	EH3014	e1	-0.5	-0.7	0.6	-0.6	0.7			0.2	-1.3	0.8	-0.4
Ampezzo	LZM 157/73	* STD	1.6	-3.4	0.6	-0.1	0.7			0.1	-1.8	1.4	-0.5
Tiago	DSP 29200	STD	1.2	0.6	-0.8	-0.1	-1.5			-0.1	1.8	-2.5	-0.7
Fabregas	KXA 6306	STD	-3.9	2.5	1.1	0.0	-0.8			0.2	-1.4	0.5	-0.9
Maxxwell	RH08107	e1	-3.2	0.7	1.8	-0.5	-0.3			0.0	-2.5	1.2	-1.3
Laurinio	KXA 8114	e2	-4.7	5.7	-1.1	-0.3	-2.1			0.2	1.0	-3.3	-2.3
Nuxx	RH0771	e1	-2.3	2.3	-0.9	-0.5	-1.2			0.2	0.0	-2.5	-2.4
Amadeo	KX 2030	T	-1.1	-2.0	1.0	0.0	-0.8			0.1	-3.1	0.2	-2.9
EGZ 9108	EGZ 9108	e1	-2.3	2.1	-2.6	-0.4	-1.1			0.1	-0.2	-3.9	-4.0
Kontrebass	KXA 7301	T	-0.7	-2.4	0.3	-0.3	-1.1			0.1	-3.2	-0.9	-4.1
LG 30211	LZM 158/72	e2	-1.8	-1.9	0.2	-0.2	-1.2			0.1	-3.6	-1.1	-4.7
Klmas	KXA 7332	e1	-1.9	1.1	-3.1	-0.3	-1.2			0.2	-0.8	-4.4	-5.2
DAS08107	SUM 2221	e2	-6.0	0.8	1.0	0.0	-1.7			-0.2	-5.2	-0.9	-6.1
SY Montecarlo	NX07057	e1	-0.2	-5.7	0.0	-0.5	-1.2			0.1	-5.9	-1.5	-7.5
Coxximo	Coxximo	STD	-4.5	-1.2	0.0	-0.6	-1.6			0.2	-5.7	-2.0	-7.7
NK Gitago	NX 0795	T	-1.8	-3.4	-0.5	-0.5	-1.9			0.0	-5.2	-2.9	-8.0
Ayrro	LZM 156/77	STD	-3.1	-0.3	-2.2	-0.2	-2.8			0.1	-3.5	-5.1	-8.6
Delitop	NX 1480	T	-1.2	-4.1	-1.3	-0.5	-1.7			0.1	-5.3	-3.3	-8.7
SL19174	SL19174	e1	-3.6	-4.2	-1.7	-0.4	0.0			-0.3	-7.9	-2.3	-10.2
Pralinia	DSP 29917	STD	-3.8	-5.3	-0.5	-0.3	-1.6			0.1	-9.1	-2.3	-11.3
Isanto	SL2375	e1	-6.4	-3.1	-1.7	-0.6	-0.6			0.0	-9.5	-2.9	-12.4
LG 30.208	LZM 157/70	T	-3.7	-7.4	-0.9	-0.4	-1.3			0.2	-11.2	-2.6	-13.7

pondération
nb de lieux

0.4	0.5	1.25	0.5	0.25	0.75	0.75	0.25
8	8	8	8	4	0	0	2

Résumé des observations

série 01

		Teneur MS	Rendement net à 0 % H2O	Rendement val. Rel.	Vigueur au départ	Verse en végétation	Helminthosporiose	Charbon	Hauteur des plantes	Hauteur de l'épi	Hauteur relative de l'épi	nb de jour du semis à 50% de floraison femelle	densité des plantes à la récolte (pl/m2)
		%	(dt/ha)	(%)	(note)	(%)	(note)	(%)	(cm)	(cm)	(%)		(pl/m2)
STD	Coxximo	33.7	198.9	98.8	3.2	25.5	3.4	0.0	263.3	115.0	43.7	84.7	10.5
STD	Pralinia	33.3	190.6	94.8	2.5	25.6	5.0	0.9	250.0	120.0	48.0	83.0	10.4
STD	Fabregas	34.5	206.3	102.7	2.0	18.8	3.3	0.3	250.0	116.7	46.7	82.7	10.7
STD	Ayrro	31.9	200.6	99.7	2.4	35.1	2.7	0.6	253.3	115.0	45.4	84.0	10.6
STD	Tiago	33.0	202.5	101.3	2.1	24.2	3.2	5.0	256.7	113.3	44.2	84.0	10.3
STD	Poya *	33.1	208.1	103.3	1.8	18.0	3.1	4.9	243.3	115.0	47.3	83.3	10.4
STD	Ampezzo *	34.1	194.4	96.7	2.2	6.8	3.3	1.1	246.7	126.7	51.4	80.3	10.5
T	Delitop	32.6	193.0	95.8	2.9	26.1	1.8	1.0	243.3	110.0	45.2	84.0	10.7
T	Amadeo	34.4	197.3	98.0	2.0	19.1	3.0	0.9	236.7	106.7	45.1	82.0	10.5
T	Kontrebass	33.9	196.4	97.5	2.5	21.0	1.9	1.2	246.7	116.7	47.3	81.7	10.2
T	LG 30.208	32.9	186.4	92.6	2.8	23.1	4.5	0.3	226.7	110.0	48.6	81.0	10.2
T	NK Gitago	33.3	194.5	96.8	3.0	27.5	2.5	2.8	246.7	116.7	47.3	85.0	10.4
e2	Laurinio	32.7	212.7	105.6	2.5	28.8	1.6	0.2	258.3	133.3	51.6	84.0	10.6
e2	LG 30222	33.3	204.5	101.4	2.2	10.2	2.7	1.3	250.0	116.7	46.7	84.0	10.6
e2	DAS08107	34.4	202.8	100.7	2.0	25.7	3.1	6.1	260.0	120.0	46.2	84.0	10.0
e2	LG 30211	33.8	197.5	98.1	2.3	22.4	2.7	1.8	236.7	116.7	49.3	83.3	10.3
e1	EH3014	34.1	199.8	98.7	3.3	7.1	2.0	0.0	243.3	113.3	46.6	85.0	10.4
e1	SY Montecarlo	33.6	189.8	94.3	2.9	22.3	2.8	0.9	240.0	113.3	47.3	83.3	9.8
e1	SL19174	32.3	192.8	95.7	2.8	12.5	3.9	7.4	260.0	120.0	46.2	85.3	10.5
e1	Maxxwell	35.1	202.7	100.7	2.9	14.5	1.8	2.5	255.0	116.7	45.7	82.3	10.5
e1	Nuxx	32.9	205.9	102.2	3.0	22.3	2.8	0.6	263.3	126.7	48.1	85.0	10.4
e1	Isanto	32.2	195.0	96.8	3.1	17.1	2.7	3.1	263.3	123.3	46.9	84.3	10.4
e1	Nitro	32.5	201.9	100.0	2.7	20.7	2.4	2.7	246.7	120.0	48.7	83.3	10.4
e1	Klamas	31.2	203.5	101.1	2.6	21.7	1.9	0.3	240.0	111.7	46.6	83.0	10.4
e1	EGZ 9108	31.6	205.5	102.1	2.7	20.8	1.6	0.9	256.7	116.7	45.5	85.0	10.6
	<i>Moyenne</i>	33.2	199.3	99.0	2.6	20.7	2.8	1.9	249.5	117.2	47.0	83.5	10.4
	<i>Témoins</i>	33.6	201.2	100.0	2.0	12.4	3.2	3.0	245.0	120.8	49.4	81.8	10.5
	<i>PPDS (5 %)</i>	0.6	8.0		0.4	8.0	0.6	2.7	13.5	8.4	3.6	1.6	0.3
	<i>PPDS (1 %)</i>	0.8	10.6		0.5	10.5	0.7	3.6	17.9	11.2	4.8	2.2	0.5
	<i>C.V [%]</i>	3.2	7.1		25.0	47.9	25.0	126.8	3.3	4.4	4.7	1.2	5.9
	Nb de lieux	8	8		8	4	4	2	1	1	1	1	8

Résumé des observations (2)

série 01

		Teneur en matière organique digestible (MOD) (g/kg MS)	Teneur en cellulose brute (g/kg MS)	Matière azotée <hr/> (g/kg MS)	Teneur en amidon <hr/> (g/kg MS)	Teneur en parois cellulaires (NDF) (g/kg MS)	Energie nette pour la lactation <hr/> (MJ/kg MS)
STD	Coxximo	714.9	157.3	68.5	332.0	381.6	6.5
STD	Pralinia	716.8	157.7	69.6	320.3	380.4	6.5
STD	Fabregas	716.4	159.2	65.8	356.6	374.2	6.5
STD	Ayrro	718.3	168.9	71.7	320.2	390.4	6.5
STD	Tiago	729.1	156.6	68.1	328.1	368.8	6.7
STD	Poya *	722.2	159.0	68.2	324.1	377.6	6.6
STD	Ampezzo *	730.1	154.4	62.8	341.4	377.5	6.7
T	Delitop	723.1	156.8	69.1	352.6	373.5	6.6
T	Amadeo	723.3	151.4	70.2	360.2	359.6	6.6
T	Kontrebass	724.3	148.5	73.1	353.6	356.7	6.6
T	LG 30.208	716.8	158.8	73.1	343.0	367.7	6.5
T	NK Gitago	721.7	156.8	70.3	345.7	373.3	6.6
e2	Laurinio	714.3	157.9	67.7	342.3	371.8	6.5
e2	LG 30222	723.5	162.6	68.2	329.9	378.0	6.6
e2	DAS08107	711.2	154.0	72.0	331.7	363.0	6.5
e2	LG 30211	721.8	165.3	68.0	341.9	372.8	6.6
e1	EH3014	724.9	167.4	70.7	320.2	381.5	6.6
e1	SY Montecarlo	725.6	159.8	71.5	347.5	368.0	6.6
e1	SL19174	717.0	158.5	67.8	313.0	377.9	6.5
e1	Maxxwell	718.1	155.9	71.7	351.6	374.5	6.5
e1	Nuxx	720.4	164.6	70.9	317.5	372.6	6.6
e1	Isanto	710.2	163.0	72.4	322.6	374.9	6.5
e1	Nitro	735.9	165.1	67.2	350.3	368.1	6.7
e1	Klamos	721.4	162.4	67.6	331.8	371.1	6.6
e1	EGZ 9108	720.4	164.1	67.1	325.6	383.8	6.6
	<i>Moyenne</i>	720.9	159.4	69.3	336.1	373.6	6.6
	<i>Témoins</i>	726.2	156.7	65.5	332.8	377.6	6.6
	<i>PPDS (5 %)</i>	10.0	6.8	2.0	15.4	12.6	0.1
	<i>PPDS (1 %)</i>	13.2	9.0	2.6	20.3	16.6	0.1
	<i>C. V [%]</i>	2.4	7.5	5.1	8.1	5.9	3.0
	<i>Nb de lieux</i>	8	8	8	8	8	8

Précocité / Reife

		Moyenne	Liebegg	Delley	Eglisau	Ellighausen	Goumoens	Grangeneuve	Koppigen	Reckenholz
STD	Coxximo	33.7	34.7	33.8	34.2	31.9	31.9	29.2	37.7	35.9
STD	Pralinia	33.3	37.5	32.1	34.8	31.1	30.6	27.8	35.7	36.5
STD	Fabregas	34.5	39.5	33.6	34.1	34.9	32.0	28.2	35.9	37.9
STD	Ayrro	31.9	32.6	33.0	33.2	31.8	30.9	25.4	34.0	34.1
STD	Tiago	33.0	35.4	32.3	33.5	32.5	29.4	29.4	36.6	34.7
STD	Poya	*	36.2	31.9	34.6	33.5	30.9	26.2	37.1	34.5
STD	Ampezzo	*	34.1	37.6	34.0	34.6	34.2	28.2	37.1	36.0
T	Delitop	32.6	35.1	32.4	33.8	33.9	30.2	26.7	32.3	36.3
T	Amadeo	34.4	37.0	34.6	36.4	33.4	31.2	28.6	37.5	36.5
T	Kontrebass	33.9	38.2	34.2	35.8	34.1	31.2	27.8	33.2	36.5
T	LG 30.208	32.9	34.1	31.7	33.8	34.5	29.5	25.8	38.0	35.5
T	NK Gitago	33.3	33.7	32.6	34.8	33.5	30.8	27.6	35.6	37.3
e2	Laurinio	32.7	36.9	32.2	33.4	34.8	29.0	25.8	33.6	35.9
e2	LG 30222	33.3	36.8	33.9	35.8	32.3	29.3	26.1	35.2	37.0
e2	DAS08107	34.4	37.3	34.2	35.7	35.5	30.3	27.2	38.7	36.3
e2	LG 30211	33.8	36.1	34.5	35.1	33.7	30.5	27.2	37.2	36.2
e1	EH3014	34.1	36.5	33.4	35.5	33.3	32.6	27.4	36.3	38.2
e1	SY Montecarlo	33.6	36.1	32.7	35.3	33.8	29.5	28.4	36.4	37.1
e1	SL19174	32.3	36.6	31.4	32.0	32.0	30.1	26.5	35.4	34.2
e1	Maxxwell	35.1	36.4	35.2	35.7	35.2	33.1	30.5	38.0	36.8
e1	Nuxx	32.9	35.8	32.3	33.6	31.6	30.8	29.4	35.5	34.3
e1	Isanto	32.2	35.2	31.7	32.3	34.3	29.5	25.1	34.7	35.2
e1	Nitro	32.5	35.9	31.9	33.4	33.7	31.3	26.6	32.8	34.1
e1	Klamas	31.2	32.9	32.2	32.9	30.0	28.9	26.3	32.7	33.5
e1	EGZ 9108	31.6	33.1	31.6	33.4	31.6	29.4	27.2	32.1	34.3
	Moyenne	33.2	35.9	32.9	34.3	33.2	30.6	27.4	35.6	35.8
	Témoins	33.6	36.9	33.0	34.6	33.9	31.2	27.2	37.1	35.3
	PPDS (5 %)	0.6	1.9	1.5	1.5	1.6	2.2	2.4	1.5	1.3
	PPDS (1 %)	0.8	2.5	2.0	2.0	2.1	2.9	3.2	1.9	1.7
	C.V [%]	3.2	3.2	2.7	2.6	2.9	4.3	5.3	2.5	2.2

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	550.1	24	19.95***	1.55	0.0000
Lieu	4626.8	7	575.24***	2.03	0.0000
Interaction Lieu X variété	599.3	168	3.10***	1.23	0.0000
Erreur	441.2	384			
Total	6217.5	583			

Rendement / Ertrag

		<i>Moyenne</i>	Liebegg	Delley	Eglisau	Ellighausen	Goumoens	Grangeneuve	Koppigen	Reckenholz
STD	Coxximo	198.9	226.5	178.3	208.2	190.5	191.1	199.0	161.1	236.6
STD	Pralinia	190.6	202.4	165.0	219.6	180.5	188.8	186.1	156.5	225.8
STD	Fabregas	206.3	216.1	172.8	233.1	208.4	196.2	207.2	176.2	240.2
STD	Ayrro	200.6	243.5	168.9	219.5	201.9	195.6	187.5	172.6	215.0
STD	Tiago	202.5	192.2	189.6	221.2	203.3	180.3	218.7	180.4	234.1
STD	Poya	208.1	245.5	184.9	221.4	204.6	215.6	181.2	170.4	240.8
STD	Ampezzo	194.4	220.0	165.3	182.2	193.3	185.6	206.2	170.9	231.7
T	Delitop	193.0	231.2	167.3	220.2	189.8	169.3	184.5	159.2	222.3
T	Amadeo	197.3	221.2	157.9	212.8	202.2	175.0	211.4	165.5	232.1
T	Kontrebass	196.4	229.2	162.7	214.1	190.2	181.3	196.8	165.3	231.2
T	LG 30.208	186.4	210.1	155.6	208.9	185.4	179.7	190.5	147.9	213.2
T	NK Gitago	194.5	218.7	170.8	213.7	198.6	172.1	195.6	163.3	223.0
e2	Laurinio	212.7	248.2	179.6	227.7	219.5	195.4	190.7	186.4	253.9
e2	LG 30222	204.5	239.5	184.2	224.8	199.8	183.9	199.1	155.5	249.3
e2	DAS08107	202.8	246.0	177.6	223.2	197.9	180.7	210.5	161.1	225.7
e2	LG 30211	197.5	227.4	170.6	217.0	194.7	177.1	187.9	167.0	238.0
e1	EH3014	199.8	239.4	159.2	226.2	180.0	198.6	187.6	156.4	250.7
e1	SY Montecarlo	189.8	209.5	164.9	201.6	187.5	159.1	204.1	155.7	235.9
e1	SL19174	192.8	208.9	165.7	207.0	178.3	181.7	203.3	153.5	243.9
e1	Maxxwell	202.7	230.6	156.3	223.8	204.2	177.3	208.8	179.4	240.9
e1	Nuxx	205.9	239.2	168.2	230.3	186.1	199.7	207.8	172.1	243.6
e1	Isanto	195.0	219.8	158.7	216.8	202.6	172.3	188.6	164.4	237.0
e1	Nitro	201.9	245.8	175.5	196.6	184.6	194.1	203.8	160.2	255.1
e1	Klamas	203.5	245.0	160.8	215.4	205.5	175.3	203.8	187.5	234.5
e1	EGZ 9108	205.5	237.8	168.5	214.1	206.6	193.9	202.3	180.0	240.9
	Moyenne	199.3	227.8	169.2	216.0	195.8	184.8	198.5	166.7	235.8
	Témoins	201.2	232.8	175.1	201.8	199.0	200.6	193.7	170.6	236.3
	PPDS (5 %)	8.0	28.9	14.7	29.3	22.4	16.2	30.4	18.0	20.0
	PPDS (1 %)	10.6	38.6	19.6	39.1	29.9	21.6	40.6	24.0	26.7
	C.V [%]	7.1	7.7	5.3	8.3	7.0	5.3	9.3	6.6	5.2

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	23294.1	24	4.84***	1.55	0.0000
Lieu	345943.6	7	246.23***	2.03	0.0000
Interaction Lieu X variété	51468.0	168	1.53***	1.23	0.0004
Erreur	77071.7	384			
Total	497777.3	583			

Rendement relatif / Relativer Ertrag

		<i>Moyenne</i>	Liebegg	Delley	Eglisau	Ellighausen	Goumoens	Grangeneuve	Koppigen	Reckenholz
STD	Coxximo	98.8	97.3	101.9	103.2	95.7	95.3	102.7	94.4	100.1
STD	Pralinia	94.8	87.0	94.2	108.8	90.7	94.1	96.1	91.7	95.6
STD	Fabregas	102.7	92.8	98.7	115.5	104.7	97.8	107.0	103.3	101.7
STD	Ayrro	99.7	104.6	96.5	108.8	101.5	97.5	96.8	101.2	91.0
STD	Tiago	101.3	82.6	108.3	109.6	102.2	89.9	112.9	105.7	99.1
STD	Poya	103.3	105.5	105.6	109.7	102.8	107.5	93.5	99.9	101.9
STD	Ampezzo	96.7	94.5	94.4	90.3	97.2	92.5	106.5	100.1	98.1
T	Delitop	95.8	99.3	95.6	109.1	95.4	84.4	95.2	93.3	94.1
T	Amadeo	98.0	95.0	90.2	105.5	101.6	87.3	109.1	97.0	98.3
T	Kontrebass	97.5	98.5	92.9	106.1	95.6	90.4	101.6	96.9	97.9
T	LG 30.208	92.6	90.3	88.9	103.5	93.2	89.6	98.3	86.7	90.2
T	NK Gitago	96.8	94.0	97.6	105.9	99.8	85.8	101.0	95.7	94.4
e2	Laurinio	105.6	106.6	102.6	112.8	110.3	97.4	98.4	109.2	107.5
e2	LG 30222	101.4	102.9	105.2	111.4	100.4	91.7	102.8	91.1	105.5
e2	DAS08107	100.7	105.7	101.5	110.6	99.4	90.1	108.7	94.4	95.5
e2	LG 30211	98.1	97.7	97.5	107.5	97.8	88.3	97.0	97.9	100.7
e1	EH3014	98.7	102.8	90.9	112.1	90.4	99.0	96.9	91.7	106.1
e1	SY Montecarlo	94.3	90.0	94.2	99.9	94.2	79.3	105.3	91.3	99.9
e1	SL19174	95.7	89.7	94.7	102.6	89.6	90.6	104.9	90.0	103.2
e1	Maxxwell	100.7	99.1	89.3	110.9	102.6	88.4	107.8	105.2	102.0
e1	Nuxx	102.2	102.8	96.1	114.1	93.5	99.5	107.3	100.9	103.1
e1	Isanto	96.8	94.4	90.7	107.4	101.8	85.9	97.4	96.3	100.3
e1	Nitro	100.0	105.6	100.2	97.4	92.8	96.7	105.2	93.9	108.0
e1	Klarnas	101.1	105.3	91.9	106.8	103.3	87.4	105.2	109.9	99.2
e1	EGZ 9108	102.1	102.2	96.3	106.1	103.8	96.7	104.4	105.5	102.0
	Moyenne	99.0	97.8	96.6	107.0	98.4	92.1	102.5	97.7	99.8
	Témoins	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Vigueur au départ / Jugendentwicklung

	<i>Moyenne</i>	Liebegg	Delley	Eglisau	Ellighausen	Goumoens	Grangeneuve	Koppigen	Reckenholz		
STD	Coxximo	3.2	4.0	3.7	3.0	3.7	2.3	3.0	2.3	3.3	
STD	Pralinia	2.5	3.0	2.0	1.7	4.0	2.3	2.3	2.7	2.0	
STD	Fabregas	2.0	2.7	1.3	1.7	3.0	1.7	1.7	2.0	1.7	
STD	Ayrro	2.4	2.7	3.0	3.0	3.0	1.7	2.0	1.7	2.3	
STD	Tiago	2.1	3.0	1.0	2.3	3.0	1.7	1.7	2.0	2.0	
STD	Poya	*	2.0	1.0	2.0	2.3	1.0	2.3	1.3	2.0	
STD	Ampezzo	*	2.2	2.0	2.0	2.3	3.0	1.7	2.3	1.3	2.7
T	Delitop	2.9	2.7	2.3	3.3	3.3	2.7	2.7	3.0	3.0	
T	Amadeo	2.0	3.0	2.7	2.0	2.0	1.3	2.0	1.3	2.0	
T	Kontrebass	2.5	3.0	2.3	2.7	3.0	1.7	2.3	2.7	2.7	
T	LG 30.208	2.8	3.0	3.0	3.7	3.3	2.3	2.0	2.0	3.3	
T	NK Gitago	3.0	3.0	3.0	3.3	3.7	2.7	2.7	2.3	3.3	
e2	Laurinio	2.5	2.7	3.3	2.3	2.3	2.7	2.7	1.7	2.7	
e2	LG 30222	2.2	2.3	2.3	2.0	3.0	1.7	1.7	2.3	2.3	
e2	DAS08107	2.0	2.7	1.0	2.7	3.3	1.3	1.3	1.7	2.0	
e2	LG 30211	2.3	2.7	3.0	1.7	3.0	2.0	1.7	1.7	2.7	
e1	EH3014	3.3	3.7	4.0	3.3	3.7	2.7	2.0	2.7	4.0	
e1	SY Montecarlo	2.9	4.0	3.0	2.7	3.7	2.3	2.7	2.0	2.7	
e1	SL19174	2.8	3.7	2.7	3.0	4.0	1.7	1.3	3.0	2.7	
e1	Maxxwell	2.9	3.7	3.7	2.7	3.0	2.0	2.3	2.3	3.3	
e1	Nuxx	3.0	3.0	3.3	2.7	3.7	3.3	2.3	2.3	3.0	
e1	Isanto	3.1	3.7	4.0	3.7	3.7	2.7	2.3	1.7	3.3	
e1	Nitro	2.7	2.7	3.0	2.7	3.3	1.0	2.7	3.0	3.0	
e1	Klamas	2.6	3.0	3.0	2.7	3.0	2.0	2.0	2.7	2.7	
e1	EGZ 9108	2.7	3.0	3.7	2.0	3.0	1.7	2.3	2.3	3.3	
	<i>Moyenne</i>	2.6	3.0	2.7	2.6	3.2	2.0	2.2	2.2	2.7	
	<i>Témoins</i>	2.0	2.0	1.5	2.2	2.7	1.3	2.3	1.3	2.3	
	<i>PPDS (5 %)</i>	0.4	1.1	1.1	1.4	1.0	0.8	1.0	1.0	0.9	
	<i>PPDS (1 %)</i>	0.5	1.4	1.5	1.9	1.4	1.1	1.3	1.4	1.2	
	<i>C.V [%]</i>	25.0	21.6	25.2	32.9	19.5	25.4	27.3	28.6	20.0	

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	99.7	24	10.11***	1.55	0.0000
Lieu	94.5	7	32.86***	2.03	0.0000
Interaction Lieu X variété	107.2	168	1.55***	1.23	0.0003
Erreur	157.7	384			
Total	459.0	583			

Verse en végétation (%) /Lagerung während Vegetation (%)

		<i>Moyenne</i>	Liebegg	Delley	Eglisau	Reckenholz
STD	Coxximo	25.5	4.3	0.0	0.0	97.7
STD	Pralinia	25.6	4.7	0.0	0.0	97.6
STD	Fabregas	18.8	0.6	0.0	3.3	71.4
STD	Ayrro	35.1	31.2	1.2	9.2	98.9
STD	Tiago	24.2	5.5	0.0	7.3	83.9
STD	Poya	* 18.0	7.1	0.0	1.4	63.5
STD	Ampezzo	* 6.8	0.0	0.0	0.0	27.2
T	Delitop	26.1	5.3	0.0	1.1	98.0
T	Amadeo	19.1	1.7	0.0	0.0	74.5
T	Kontrebass	21.0	7.2	0.0	0.6	76.0
T	LG 30.208	23.1	4.1	0.0	1.1	87.2
T	NK Gitago	27.5	11.7	1.2	2.9	94.4
e2	Laurinio	28.8	23.7	0.0	5.8	85.7
e2	LG 30222	10.2	0.5	0.0	0.5	39.7
e2	DAS08107	25.7	2.0	0.0	5.9	95.0
e2	LG 30211	22.4	3.1	0.0	1.2	85.2
e1	EH3014	7.1	0.5	0.0	0.0	27.7
e1	SY Montecarlo	22.3	1.2	0.0	0.0	87.8
e1	SL19174	12.5	2.7	0.0	0.0	47.1
e1	Maxxwell	14.5	4.5	0.0	0.5	52.9
e1	Nuxx	22.3	0.6	0.0	0.0	88.4
e1	Isanto	17.1	3.8	0.0	7.2	57.4
e1	Nitro	20.7	0.0	0.0	0.0	82.8
e1	Klamas	21.7	5.9	0.0	2.2	78.8
e1	EGZ 9108	20.8	0.6	0.0	8.3	74.3
	<i>Moyenne</i>	20.7	5.3	0.1	2.3	74.9
	<i>Témoins</i>	12.4	3.6	0.0	0.7	45.3
	<i>PPDS (5 %)</i>	8.0	12.1	0.9	7.9	29.1
	<i>PPDS (1 %)</i>	10.5	16.2	1.2	10.5	38.8
	<i>C.V [%]</i>	47.9	139.3	599.5	204.8	23.7

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	12844.3	24	5.46***	1.57	0.00
Lieu	295430.0	3	1'004.68***	2.65	0.00
Interaction Lieu X variété	25458.0	72	3.61***	1.36	0.00
Erreur	18819.5	192			
Total	352551.7	291			

Helminthosporium (note)

		Moyenne	Liebegg	Eglisau	Koppigen	Reckenholz
STD	Coxximo	3.4	2.7	2.3	6.7	2.0
STD	Pralinia	5.0	5.0	4.3	5.7	5.0
STD	Fabregas	3.3	2.7	2.3	5.7	2.3
STD	Ayrro	2.7	1.7	2.3	5.7	1.0
STD	Tiago	3.2	3.3	2.7	4.3	2.3
STD	Poya	* 3.1	2.7	2.7	5.3	1.7
STD	Ampezzo	* 3.3	3.0	2.3	5.7	2.3
T	Delitop	1.8	1.3	2.0	2.7	1.3
T	Amadeo	3.0	2.0	2.3	5.7	2.0
T	Kontrebass	1.9	1.7	2.3	2.0	1.7
T	LG 30.208	4.5	3.0	3.7	7.3	4.0
T	NK Gitago	2.5	2.0	2.3	4.0	1.7
e2	Laurinio	1.6	1.7	1.0	2.0	1.7
e2	LG 30222	2.7	1.7	3.0	4.3	1.7
e2	DAS08107	3.1	3.0	2.0	5.0	2.3
e2	LG 30211	2.7	2.3	2.3	4.7	1.3
e1	EH3014	2.0	1.0	1.7	4.0	1.3
e1	SY Montecarlo	2.8	1.7	2.7	5.3	1.3
e1	SL19174	3.9	4.7	2.7	5.3	3.0
e1	Maxxwell	1.8	1.3	1.7	3.0	1.3
e1	Nuxx	2.8	2.7	1.7	4.3	2.7
e1	Isanto	2.7	1.7	2.7	4.3	2.0
e1	Nitro	2.4	2.3	2.3	3.0	2.0
e1	Klamas	1.9	1.7	2.3	2.0	1.7
e1	EGZ 9108	1.6	1.3	2.0	2.0	1.0
	Moyenne	2.8	2.3	2.4	4.4	2.0
	Témoins	3.2	2.8	2.5	5.5	2.0
	PPDS (5 %)	0.6	1.1	1.0	1.4	1.1
	PPDS (1 %)	0.7	1.5	1.3	1.8	1.4
	C.V [%]	25.0	29.5	24.3	19.0	32.4

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	210.2	24	18.11***	1.57	0.00
Lieu	266.9	3	183.94***	2.65	0.00
Interaction Lieu X variété	115.2	72	3.31***	1.36	0.00
Erreur	92.9	192			
Total	685.1	291			

Charbon (% de plantes atteintes) / Beulenbrand

		Moyenne	Eglisau	Reckenholz
STD	Coxximo	0.0	0.0	0.0
STD	Pralinia	0.9	0.0	1.8
STD	Fabregas	0.3	0.0	0.6
STD	Ayrro	0.6	1.2	0.0
STD	Tiago	5.0	4.5	5.5
STD	Poya	* 4.9	7.4	2.4
STD	Ampezzo	* 1.1	1.1	1.1
T	Delitop	1.0	1.1	1.0
T	Amadeo	0.9	0.6	1.1
T	Kontrebass	1.2	1.1	1.4
T	LG 30.208	0.3	0.0	0.7
T	NK Gitago	2.8	4.0	1.6
e2	Laurinio	0.2	0.0	0.5
e2	LG 30222	1.3	2.6	0.0
e2	DAS08107	6.1	8.1	4.0
e2	LG 30211	1.8	3.0	0.6
e1	EH3014	0.0	0.0	0.0
e1	SY Montecarlo	0.9	0.6	1.3
e1	SL19174	7.4	10.7	4.1
e1	Maxxwell	2.5	3.2	1.8
e1	Nuxx	0.6	0.5	0.6
e1	Isanto	3.1	5.0	1.1
e1	Nitro	2.7	2.4	2.9
e1	Klamas	0.3	0.0	0.6
e1	EGZ 9108	0.9	0.6	1.2
	Moyenne	1.9	2.3	1.4
	Témoins	3.0	4.2	1.7
	PPDS (5 %)	2.7	4.9	2.5
	PPDS (1 %)	3.6	6.5	3.3
	C.V [%]	126.8	129.3	106.6

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	579.7	24	4.32***	1.63	0.00
Lieu	28.7	1	5.13*	3.94	0.03
Interaction Lieu X variété	165.1	24	1.23n.s	1.63	0.24
Erreur	537.4	96			
Total	1311.0	145			

Hauteur des plantes (cm) / Pflanzenhöhe

		<i>Moyenne</i>	Reckenholz
STD	Coxximo	263.3	263.3
STD	Pralinia	250.0	250.0
STD	Fabregas	250.0	250.0
STD	Ayrro	253.3	253.3
STD	Tiago	256.7	256.7
STD	Poya	* 243.3	243.3
STD	Ampezzo	* 246.7	246.7
T	Delitop	243.3	243.3
T	Amadeo	236.7	236.7
T	Kontrebass	246.7	246.7
T	LG 30.208	226.7	226.7
T	NK Gitago	246.7	246.7
e2	Laurinio	258.3	258.3
e2	LG 30222	250.0	250.0
e2	DAS08107	260.0	260.0
e2	LG 30211	236.7	236.7
e1	EH3014	243.3	243.3
e1	SY Montecarlo	240.0	240.0
e1	SL19174	260.0	260.0
e1	Maxxwell	255.0	255.0
e1	Nuxx	263.3	263.3
e1	Isanto	263.3	263.3
e1	Nitro	246.7	246.7
e1	Klamos	240.0	240.0
e1	EGZ 9108	256.7	256.7
	<i>Moyenne</i>	249.5	249.5
	<i>Témoins</i>	245.0	245.0
	<i>PPDS (5 %)</i>	13.5	13.5
	<i>PPDS (1 %)</i>	17.9	17.9
	<i>C.V [%]</i>	3.3	3.3

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	6595.3	24	4.09***	1.75	0.0000
Erreur	3222.7	48			
Total	9818.0	72			

Hauteur de l'insertion de l'épi (cm) / Ansatzhöhe des obersten Kolbens

		<i>Moyenne</i>	Reckenzholz
STD	Coxximo	115.0	115.0
STD	Pralinia	120.0	120.0
STD	Fabregas	116.7	116.7
STD	Ayrro	115.0	115.0
STD	Tiago	113.3	113.3
STD	Poya	* 115.0	115.0
STD	Ampezzo	* 126.7	126.7
T	Delitop	110.0	110.0
T	Amadeo	106.7	106.7
T	Kontrebass	116.7	116.7
T	LG 30.208	110.0	110.0
T	NK Gitago	116.7	116.7
e2	Laurinio	133.3	133.3
e2	LG 30222	116.7	116.7
e2	DAS08107	120.0	120.0
e2	LG 30211	116.7	116.7
e1	EH3014	113.3	113.3
e1	SY Montecarlo	113.3	113.3
e1	SL19174	120.0	120.0
e1	Maxxwell	116.7	116.7
e1	Nuxx	126.7	126.7
e1	Isanto	123.3	123.3
e1	Nitro	120.0	120.0
e1	Klamas	111.7	111.7
e1	EGZ 9108	116.7	116.7
	<i>Moyenne</i>	117.2	117.2
	<i>Témoins</i>	120.8	120.8
	<i>PPDS (5 %)</i>	8.4	8.4
	<i>PPDS (1 %)</i>	11.2	11.2
	<i>C.V [%]</i>	4.4	4.4

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	2445.3	24	3.90***	1.75	0.0000
Erreur	1252.7	48			
Total	3698.0	72			

Densité à la récolte (plantes/m2) / Effektive Bestandesdichte bei der Ernte

	<i>Moyenne</i>	Liebegg	Delley	Eglisau	Ellighausen	Goumoens	Grangeneuve	Koppigen	Reckenholz	
STD	Coxximo	10.5	11.1	10.3	9.8	9.7	11.6	11.0	10.4	10.5
STD	Pralinia	10.4	11.2	10.3	10.6	9.2	11.6	11.0	10.1	9.3
STD	Fabregas	10.7	11.6	10.3	10.2	10.1	11.4	11.3	10.6	10.0
STD	Ayrro	10.6	11.5	10.3	10.5	9.2	11.5	11.1	10.5	10.1
STD	Tiago	10.3	10.6	10.3	10.1	9.6	11.2	11.1	9.9	9.2
STD	Poya	* 10.4	12.0	10.3	10.0	9.7	11.1	11.1	10.3	9.1
STD	Ampezzo	* 10.5	11.1	10.3	10.3	9.9	11.5	11.2	10.7	9.1
T	Delitop	10.7	11.4	10.3	10.9	9.5	11.5	11.1	10.4	10.7
T	Amadeo	10.5	11.5	10.3	8.9	10.0	11.2	11.1	10.2	10.6
T	Kontrebass	10.2	10.6	10.3	9.6	9.4	11.3	10.7	10.3	9.4
T	LG 30.208	10.2	11.0	10.3	9.2	8.9	11.4	10.7	10.6	9.3
T	NK Gitago	10.4	11.0	10.3	10.0	9.3	11.6	10.3	10.2	10.5
e2	Laurinio	10.6	10.5	10.3	10.0	9.9	11.6	11.5	10.9	10.0
e2	LG 30222	10.6	11.5	10.3	10.3	9.4	11.6	11.2	10.8	9.6
e2	DAS08107	10.0	10.8	10.3	9.1	8.9	11.2	10.8	10.1	8.5
e2	LG 30211	10.3	11.5	10.0	9.8	10.0	10.4	10.9	10.3	9.2
e1	EH3014	10.4	11.0	10.3	10.8	8.6	11.5	11.1	10.5	9.4
e1	SY Montecarlo	9.8	10.4	10.3	9.9	8.9	10.4	10.1	9.8	8.9
e1	SL19174	10.5	11.2	10.3	10.4	9.5	10.7	11.1	10.7	10.0
e1	Maxxwell	10.5	11.1	10.0	11.1	10.2	11.4	11.2	9.1	9.8
e1	Nuxx	10.4	11.6	10.3	10.8	8.5	11.1	11.1	10.2	9.6
e1	Isanto	10.4	10.9	10.3	10.2	9.2	11.5	11.3	10.4	9.4
e1	Nitro	10.4	11.5	10.3	9.8	9.1	11.0	10.7	10.7	10.0
e1	Klamas	10.4	11.0	10.3	9.8	9.6	11.5	11.0	10.7	9.7
e1	EGZ 9108	10.6	11.2	10.3	10.7	9.4	11.5	11.6	10.7	9.3
	<i>Moyenne</i>	10.4	11.2	10.3	10.1	9.4	11.3	11.0	10.4	9.7
	<i>Témoins</i>	10.5	11.6	10.3	10.2	9.8	11.3	11.1	10.5	9.1
	<i>PPDS (5 %)</i>	0.3	1.0	0.2	1.0	0.8	1.1	0.7	0.9	1.7
	<i>PPDS (1 %)</i>	0.5	1.3	0.3	1.4	1.0	1.4	0.9	1.3	2.3
	<i>C.V [%]</i>	5.9	5.3	1.2	6.2	4.9	5.8	3.9	5.6	11.0

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	23.9	24	2.63***	1.55	0.0001
Lieu	250.5	7	94.30***	2.03	0.0000
Interaction Lieu X variété	74.3	168	1.17n.s	1.23	0.1158
Erreur	145.7	384			
Total	494.4	583			

Nb de jours du semis à la floraison femelle / Anzahl Tage zwischen Saat und 50% weiblicher Blüte

		<i>Moyenne</i>	Reckenzholz
STD	Coxximo	84.7	84.7
STD	Pralinia	83.0	83.0
STD	Fabregas	82.7	82.7
STD	Ayrro	84.0	84.0
STD	Tiago	84.0	84.0
STD	Poya	* 83.3	83.3
STD	Ampezzo	* 80.3	80.3
T	Delitop	84.0	84.0
T	Amadeo	82.0	82.0
T	Kontrebass	81.7	81.7
T	LG 30.208	81.0	81.0
T	NK Gitago	85.0	85.0
e2	Laurinio	84.0	84.0
e2	LG 30222	84.0	84.0
e2	DAS08107	84.0	84.0
e2	LG 30211	83.3	83.3
e1	EH3014	85.0	85.0
e1	SY Montecarlo	83.3	83.3
e1	SL19174	85.3	85.3
e1	Maxxwell	82.3	82.3
e1	Nuxx	85.0	85.0
e1	Isanto	84.3	84.3
e1	Nitro	83.3	83.3
e1	Klamos	83.0	83.0
e1	EGZ 9108	85.0	85.0
	<i>Moyenne</i>	83.5	83.5
	<i>Témoins</i>	81.8	81.8
	<i>PPDS (5 %)</i>	1.6	1.6
	<i>PPDS (1 %)</i>	2.2	2.2
	<i>C.V [%]</i>	1.2	1.2

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	121.4	24	5.15***	1.75	0.0000
Erreur	47.1	48			
Total	168.6	72			

Teneur en matière organique digestible

		<i>Moyenne</i>	Liebegg	Delley	Eglisau	Ellighausen	Goumoens	Grangeneuve	Koppigen	Reckenholz
STD	Coxximo	714.9	715.6	747.3	726.8	723.2	704.7	677.0	701.1	723.9
STD	Pralinia	716.8	684.2	755.6	710.3	736.9	723.2	692.7	707.3	723.9
STD	Fabregas	716.4	718.0	742.2	710.0	750.6	698.9	679.5	701.6	730.5
STD	Ayrro	718.3	715.8	749.4	725.2	725.3	709.6	659.1	727.8	734.4
STD	Tiago	729.1	741.2	756.1	718.0	736.4	718.7	698.1	736.8	727.1
STD	Poya	722.2	730.5	742.0	721.1	732.2	723.8	665.6	737.1	725.3
STD	Ampezzo	730.1	715.5	771.1	724.1	755.5	724.7	697.2	720.4	732.5
T	Delitop	723.1	733.2	743.3	735.0	735.0	717.9	669.0	714.0	737.4
T	Amadeo	723.3	734.1	759.0	721.6	740.6	710.9	690.4	699.7	730.4
T	Kontrebass	724.3	723.8	759.2	733.6	732.5	717.1	682.7	716.8	728.8
T	LG 30.208	716.8	723.2	751.0	729.0	723.9	724.9	664.1	695.4	722.9
T	NK Gitago	721.7	717.1	750.1	714.7	723.6	715.6	700.4	719.7	732.1
e2	Laurinio	714.3	724.7	738.1	723.0	733.5	685.9	666.4	720.0	723.2
e2	LG 30222	723.5	719.5	753.6	717.1	741.9	716.9	687.2	722.2	730.0
e2	DAS08107	711.2	727.0	746.0	716.4	730.3	699.7	670.3	693.0	706.6
e2	LG 30211	721.8	724.6	754.7	723.3	735.5	713.3	672.2	726.0	724.5
e1	EH3014	724.9	728.8	758.2	737.1	742.8	720.2	655.0	722.6	734.0
e1	SY Montecarlo	725.6	731.4	769.6	723.5	733.9	695.1	699.3	714.6	737.5
e1	SL19174	717.0	707.4	753.9	714.5	729.2	719.4	675.3	719.4	717.3
e1	Maxxwell	718.1	718.5	736.9	716.9	731.2	709.3	692.8	712.1	727.4
e1	Nuxx	720.4	732.0	755.9	709.8	733.6	724.4	674.5	711.6	721.7
e1	Isanto	710.2	712.2	750.9	707.9	721.4	713.0	653.0	701.1	722.5
e1	Nitro	735.9	718.7	763.5	745.1	754.2	748.5	684.9	732.6	739.7
e1	Klamas	721.4	738.9	754.7	716.5	735.8	709.9	680.3	714.9	720.3
e1	EGZ 9108	720.4	726.8	753.8	707.9	733.4	704.0	688.8	706.0	742.1
	<i>Moyenne</i>	720.9	722.5	752.6	721.1	734.9	714.0	679.0	715.0	727.8
	<i>Témoins</i>	726.2	723.0	756.5	722.6	743.9	724.2	681.4	728.8	728.9
	<i>PPDS (5 %)</i>	10.0	26.5	20.3	20.2	25.1	29.4	47.7	27.7	25.1
	<i>PPDS (1 %)</i>	13.2	35.3	27.0	27.0	33.5	39.3	63.6	36.9	33.5
	<i>C.V [%]</i>	2.4	2.2	1.6	1.7	2.1	2.5	4.3	2.4	2.1

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	19637.1	24	2.64***	1.55	0.0001
Lieu	231779.4	7	106.67***	2.03	0.0000
Interaction Lieu X variété	48238.2	168	0.93n.s	1.23	0.7173
Erreur	119194.7	384			
Total	418849.4	583			

Teneur en cellulose brute (g/kg MS)

	<i>Moyenne</i>	Liebegg	Delley	Eglisau	Ellighausen	Goumoens	Grangeneuve	Koppigen	Reckenholz	
STD	Coxximo	157.3	130.9	141.7	160.5	157.3	187.2	171.4	164.8	145.1
STD	Pralinia	157.7	121.2	156.0	166.3	167.7	172.4	174.9	154.8	148.4
STD	Fabregas	159.2	132.5	159.4	165.1	154.9	183.7	173.0	166.6	138.6
STD	Ayrro	168.9	143.9	166.0	170.3	166.8	193.3	198.9	155.6	156.3
STD	Tiago	156.6	126.7	161.1	173.7	172.2	164.3	165.6	142.6	146.6
STD	Poya	* 159.0	124.3	152.0	159.5	174.3	171.3	189.1	144.9	156.9
STD	Ampezzo	* 154.4	127.0	145.2	171.4	148.3	169.9	166.7	156.9	150.0
T	Delitop	156.8	136.6	156.9	160.1	158.1	166.3	175.5	160.8	139.7
T	Amadeo	151.4	124.6	154.7	157.2	151.9	164.5	165.8	146.3	146.0
T	Kontrebass	148.5	133.3	135.6	150.7	156.6	150.1	172.3	149.1	140.2
T	LG 30.208	158.8	124.3	161.3	170.1	170.4	165.6	182.1	147.8	148.8
T	NK Gitago	156.8	133.4	158.1	166.4	170.5	160.5	165.6	154.6	145.1
e2	Laurinio	157.9	127.1	157.8	166.3	156.4	180.9	176.3	152.3	146.4
e2	LG 30222	162.6	148.2	156.3	173.5	167.6	165.6	179.0	158.5	152.1
e2	DAS08107	154.0	120.4	147.5	166.6	162.5	140.9	187.5	162.3	144.1
e2	LG 30211	165.3	147.5	159.6	167.7	165.5	173.2	191.6	159.6	157.4
e1	EH3014	167.4	147.8	151.2	168.1	159.4	188.2	206.4	163.0	154.7
e1	SY Montecarlo	159.8	140.2	143.9	168.4	162.0	172.8	183.6	162.0	145.3
e1	SL19174	158.5	105.5	153.2	182.1	165.2	157.4	193.5	160.0	151.3
e1	Maxxwell	155.9	137.0	147.0	167.7	153.1	167.4	171.7	157.6	145.4
e1	Nuxx	164.6	134.5	151.4	179.2	163.5	173.9	190.3	166.3	157.5
e1	Isanto	163.0	142.1	153.6	164.6	158.5	170.4	199.4	166.7	148.2
e1	Nitro	165.1	138.0	158.0	170.5	168.0	171.7	182.0	172.0	160.4
e1	Klamas	162.4	128.8	154.4	171.6	160.6	177.2	197.6	158.9	149.8
e1	EGZ 9108	164.1	146.6	152.8	172.0	165.1	178.9	186.9	173.1	137.5
	<i>Moyenne</i>	159.4	132.9	153.4	167.6	162.2	170.7	181.9	158.3	148.5
	<i>Témoins</i>	156.7	125.6	148.6	165.4	161.3	170.6	177.9	150.9	153.5
	<i>PPDS (5 %)</i>	6.8	16.2	14.5	16.0	17.1	22.9	28.9	18.0	20.3
	<i>PPDS (1 %)</i>	9.0	21.6	19.4	21.4	22.9	30.5	38.6	24.0	27.1
	<i>C.V [%]</i>	7.5	7.4	5.8	5.8	6.4	8.2	9.7	6.9	8.3

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	13984.6	24	4.03***	1.55	0.0000
Lieu	117558.8	7	116.06***	2.03	0.0000
Interaction Lieu X variété	31034.8	168	1.28*	1.23	0.0281
Erreur	55566.1	384			
Total	218144.4	583			

Teneur en protéines (g/kg MS)

		<i>Moyenne</i>	Liebegg	Delley	Eglisau	Ellighausen	Goumoens	Grangeneuve	Koppigen	Reckenholz
STD	Coxximo	68.5	72.0	74.8	56.5	70.3	74.1	71.9	58.8	69.2
STD	Pralinia	69.6	74.8	74.7	58.9	70.3	76.7	74.3	57.8	69.4
STD	Fabregas	65.8	66.2	68.4	61.7	64.0	70.9	70.2	56.1	68.8
STD	Ayrro	71.7	78.5	71.1	63.5	72.2	76.6	71.9	65.9	73.6
STD	Tiago	68.1	69.5	71.4	58.4	69.3	74.9	71.5	59.9	69.5
STD	Poya	* 68.2	70.7	72.0	60.9	66.1	74.0	74.8	59.6	67.2
STD	Ampezzo	* 62.8	66.7	65.3	50.6	61.9	67.0	68.5	58.0	64.1
T	Delitop	69.1	69.1	75.0	58.4	69.3	80.4	72.0	61.9	67.1
T	Amadeo	70.2	72.3	71.2	59.9	70.6	80.4	76.4	61.3	69.5
T	Kontrebass	73.1	75.8	78.6	63.4	71.4	84.7	76.0	60.2	74.3
T	LG 30.208	73.1	76.9	74.9	64.7	69.6	82.4	73.3	66.9	75.9
T	NK Gitago	70.3	74.0	75.4	59.9	67.2	84.0	74.3	58.4	69.5
e2	Laurinio	67.7	72.2	73.8	58.0	68.1	75.7	72.2	53.4	68.6
e2	LG 30222	68.2	69.2	70.7	59.3	68.3	80.8	75.1	57.4	65.0
e2	DAS08107	72.0	73.6	73.1	62.5	70.3	86.1	80.2	58.3	72.2
e2	LG 30211	68.0	70.4	67.9	57.9	67.9	77.5	78.0	57.1	67.5
e1	EH3014	70.7	71.6	76.6	64.8	74.8	77.3	72.7	58.9	69.1
e1	SY Montecarlo	71.5	72.6	79.2	58.6	70.6	83.3	73.0	62.3	72.4
e1	SL19174	67.8	74.6	74.4	58.1	68.8	71.6	68.3	57.0	69.6
e1	Maxxwell	71.7	73.1	75.4	65.2	71.0	77.9	74.5	64.3	72.2
e1	Nuxx	70.9	73.6	76.2	62.8	69.0	77.0	74.1	63.8	70.4
e1	Isanto	72.4	73.8	75.9	63.8	74.6	77.9	77.2	62.8	73.3
e1	Nitro	67.2	71.4	70.0	53.5	68.9	72.9	71.9	57.4	71.4
e1	Klamas	67.6	69.0	70.6	59.4	67.7	72.7	74.0	57.2	70.1
e1	EGZ 9108	67.1	70.3	73.2	54.6	72.6	72.4	71.8	51.9	69.8
	<i>Moyenne</i>	69.3	72.1	73.2	59.8	69.4	77.2	73.5	59.5	70.0
	<i>Témoins</i>	65.5	68.7	68.7	55.8	64.0	70.5	71.7	58.8	65.7
	<i>PPDS (5 %)</i>	2.0	4.6	4.6	6.6	3.7	6.3	9.3	5.3	4.2
	<i>PPDS (1 %)</i>	2.6	6.1	6.1	8.8	5.0	8.4	12.4	7.1	5.6
	<i>C.V [%]</i>	5.1	3.9	3.8	6.7	3.3	4.9	7.7	5.5	3.7

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	3511.1	24	11.64***	1.55	0.0000
Lieu	21766.0	7	247.45***	2.03	0.0000
Interaction Lieu X variété	3117.5	168	1.48**	1.23	0.0011
Erreur	4825.2	384			
Total	33219.8	583			

Teneur en amidon (g/kg MS)

	<i>Moyenne</i>	Liebegg	Delley	Eglisau	Ellighausen	Goumoens	Grangeneuve	Koppigen	Reckenholz
STD Coxximo	332.0	361.1	356.7	367.5	312.4	302.9	273.7	339.7	342.1
STD Pralinia	320.3	318.8	328.0	351.9	291.2	335.4	280.4	334.2	322.1
STD Fabregas	356.6	387.1	357.9	367.2	379.8	329.3	314.1	344.1	373.8
STD Ayrro	320.2	328.3	344.2	351.7	305.0	315.2	232.9	350.5	334.2
STD Tiago	328.1	343.6	332.6	331.4	291.9	343.7	314.1	350.3	317.1
STD Poya	324.1	344.2	336.1	350.1	316.7	338.0	240.6	369.4	297.9
STD Ampezzo	341.4	352.6	370.3	337.7	351.8	351.0	311.3	339.0	317.3
T Delitop	352.6	369.3	353.5	387.8	356.7	342.4	280.3	339.4	390.9
T Amadeo	360.2	393.5	367.6	359.9	354.2	331.6	321.6	375.4	377.5
T Kontrebass	353.6	357.1	376.5	385.7	352.0	354.8	283.8	351.2	367.8
T LG 30.208	343.0	368.3	346.4	362.2	326.5	347.3	286.4	363.7	342.9
T NK Gitago	345.7	350.1	347.2	355.1	323.5	356.4	321.5	355.7	356.4
e2 Laurinio	342.3	353.7	348.3	376.0	360.9	294.8	296.7	362.3	345.6
e2 LG 30222	329.9	349.4	338.6	333.6	325.6	311.0	288.1	349.5	343.6
e2 DAS08107	331.7	358.3	358.8	336.6	321.6	355.7	252.7	341.8	327.8
e2 LG 30211	341.9	348.3	362.7	368.5	337.6	338.6	273.8	366.5	339.0
e1 EH3014	320.2	326.7	352.9	359.1	321.4	324.3	227.9	324.3	324.8
e1 SY Montecarlo	347.5	367.2	382.3	372.5	344.0	314.2	286.3	357.7	355.8
e1 SL19174	313.0	353.6	327.4	303.2	274.7	362.4	236.8	331.2	314.7
e1 Maxxwell	351.6	369.4	360.4	356.4	361.2	367.2	292.6	351.6	353.7
e1 Nuxx	317.5	349.5	340.0	325.8	308.3	339.5	257.1	310.5	309.1
e1 Isanto	322.6	328.1	348.6	331.3	331.5	357.8	242.3	323.6	317.4
e1 Nitro	350.3	356.8	357.8	395.5	342.1	392.3	253.7	353.0	351.1
e1 Klamas	331.8	367.6	350.9	347.0	322.5	324.0	253.5	360.5	328.7
e1 EGZ 9108	325.6	329.5	349.9	329.9	322.4	334.4	276.3	315.1	347.0
<i>Moyenne</i>	336.1	353.3	351.8	353.7	329.4	338.6	275.9	346.4	339.9
<i>Témoins</i>	332.8	348.4	353.2	343.9	334.3	344.5	276.0	354.2	307.6
<i>PPDS (5 %)</i>	15.4	35.9	30.6	28.4	34.9	42.5	78.7	41.7	44.4
<i>PPDS (1 %)</i>	20.3	47.9	40.9	37.9	46.5	56.7	105.1	55.6	59.2
<i>C.V [%]</i>	8.1	6.2	5.3	4.9	6.5	7.6	17.4	7.3	8.0

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	110866.8	24	6.24***	1.55	0.0000
Lieu	348324.7	7	67.19***	2.03	0.0000
Interaction Lieu X variété	157271.6	168	1.26*	1.23	0.0335
Erreur	284397.6	384			
Total	900860.8	583			

Teneur en parois cellulaires NDF (g/kg MS)

		<i>Moyenne</i>	Liebegg	Delley	Eglisau	Ellighausen	Goumoens	Grangeneuve	Koppigen	Reckenholz
STD	Coxximo	381.6	361.4	352.3	368.2	384.6	417.0	401.4	409.8	358.5
STD	Pralinia	380.4	387.5	366.0	377.2	369.6	384.3	403.3	404.5	351.0
STD	Fabregas	374.2	355.6	354.6	370.3	348.4	412.4	414.2	401.2	337.1
STD	Ayrro	390.4	375.8	377.2	366.2	388.9	418.5	451.5	396.3	348.7
STD	Tiago	368.8	360.0	352.5	372.7	371.9	369.5	395.5	373.7	354.5
STD	Poya	377.6	347.8	358.4	380.3	365.0	385.8	429.5	382.2	371.8
STD	Ampezzo	377.5	369.5	345.9	390.6	345.6	392.8	402.1	398.1	375.5
T	Delitop	373.5	346.8	355.5	345.7	357.3	396.4	429.2	411.4	346.1
T	Amadeo	359.6	343.2	335.8	354.6	352.6	379.0	394.5	390.8	326.1
T	Kontrebass	356.7	340.2	318.2	331.8	353.9	363.8	413.5	384.2	347.6
T	LG 30.208	367.7	353.7	352.8	346.5	364.6	368.0	422.6	400.2	333.0
T	NK Gitago	373.3	370.7	351.4	382.7	383.3	369.8	388.7	382.4	357.0
e2	Laurinio	371.8	349.3	361.2	352.8	345.8	416.2	426.0	379.1	344.5
e2	LG 30222	378.0	386.8	360.7	378.7	358.6	387.1	410.9	386.2	355.0
e2	DAS08107	363.0	350.2	335.5	358.7	343.4	351.0	397.8	395.8	371.9
e2	LG 30211	372.8	363.0	359.1	368.3	375.3	395.2	414.8	370.2	336.2
e1	EH3014	381.5	381.1	363.0	360.8	353.0	402.2	424.1	403.3	364.4
e1	SY Montecarlo	368.0	350.0	332.4	379.6	357.2	407.2	390.3	390.4	336.8
e1	SL19174	377.9	373.4	362.0	377.8	371.7	371.1	430.1	368.8	368.0
e1	Maxxwell	374.5	369.9	363.3	375.6	364.0	390.9	394.1	386.4	352.2
e1	Nuxx	372.6	348.1	350.6	382.8	359.9	384.5	402.7	386.4	365.7
e1	Isanto	374.9	356.4	363.3	373.8	352.4	381.7	425.7	392.5	353.1
e1	Nitro	368.1	362.1	357.9	363.1	343.0	375.1	403.6	381.2	358.5
e1	Klomas	371.1	349.2	351.4	363.9	359.1	413.7	409.5	374.6	347.2
e1	EGZ 9108	383.8	378.1	362.2	395.3	361.6	406.9	421.0	409.8	335.6
	<i>Moyenne</i>	373.6	361.2	353.7	368.7	361.2	389.6	411.9	390.4	351.8
	<i>Témoins</i>	377.6	358.7	352.2	385.5	355.3	389.3	415.8	390.2	373.6
	<i>PPDS (5 %)</i>	12.6	31.5	26.1	26.7	42.1	36.2	46.9	40.0	36.6
	<i>PPDS (1 %)</i>	16.6	42.1	34.8	35.6	56.2	48.3	62.6	53.3	48.8
	<i>C.V [%]</i>	5.9	5.3	4.5	4.4	7.1	5.7	6.9	6.2	6.3

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	32620.6	24	2.76***	1.55	0.0000
Lieu	240027.3	7	69.67***	2.03	0.0000
Interaction Lieu X variété	86588.3	168	1.05n.s	1.23	0.3556
Erreur	189000.1	384			
Total	548236.2	583			

Teneur en énergie nette pour la lactation (NEL) en mégajoules /kg MS

		<i>Moyenne</i>	Liebegg	Delley	Eglisau	Ellighausen	Goumoens	Grangeneuve	Koppigen	Reckenholz
STD	Coxximo	6.5	6.5	6.9	6.6	6.6	6.4	6.1	6.3	6.6
STD	Pralinia	6.5	6.2	7.0	6.5	6.8	6.6	6.3	6.4	6.6
STD	Fabregas	6.5	6.5	6.8	6.5	6.9	6.3	6.1	6.3	6.7
STD	Ayrro	6.5	6.5	6.9	6.6	6.6	6.5	5.9	6.6	6.7
STD	Tiago	6.7	6.8	7.0	6.5	6.8	6.5	6.3	6.7	6.6
STD	Poya	*	6.6	6.7	6.6	6.7	6.6	6.0	6.7	6.6
STD	Ampezzo	*	6.7	6.5	7.1	6.6	7.0	6.6	6.3	6.6
T	Delitop	6.6	6.7	6.8	6.7	6.7	6.5	6.0	6.5	6.8
T	Amadeo	6.6	6.7	7.0	6.6	6.8	6.5	6.2	6.3	6.7
T	Kontrebass	6.6	6.6	7.0	6.7	6.7	6.5	6.2	6.5	6.7
T	LG 30.208	6.5	6.6	6.9	6.7	6.6	6.6	6.0	6.3	6.6
T	NK Gitago	6.6	6.5	6.9	6.5	6.6	6.5	6.4	6.6	6.7
e2	Laurinio	6.5	6.6	6.8	6.6	6.7	6.2	6.0	6.6	6.6
e2	LG 30222	6.6	6.5	6.9	6.5	6.8	6.5	6.2	6.6	6.7
e2	DAS08107	6.5	6.6	6.9	6.5	6.7	6.3	6.0	6.3	6.4
e2	LG 30211	6.6	6.6	6.9	6.6	6.7	6.5	6.0	6.6	6.6
e1	EH3014	6.6	6.7	7.0	6.8	6.8	6.6	5.9	6.6	6.7
e1	SY Montecarlo	6.6	6.7	7.1	6.6	6.7	6.3	6.3	6.5	6.8
e1	SL19174	6.5	6.4	6.9	6.5	6.7	6.6	6.1	6.5	6.5
e1	Maxxwell	6.5	6.5	6.7	6.5	6.7	6.4	6.3	6.5	6.6
e1	Nuxx	6.6	6.7	7.0	6.5	6.7	6.6	6.1	6.5	6.6
e1	Isanto	6.5	6.5	6.9	6.4	6.6	6.5	5.8	6.3	6.6
e1	Nitro	6.7	6.5	7.1	6.8	7.0	6.9	6.2	6.7	6.8
e1	Klamas	6.6	6.8	7.0	6.5	6.7	6.5	6.1	6.5	6.6
e1	EGZ 9108	6.6	6.6	6.9	6.4	6.7	6.4	6.2	6.4	6.8
	<i>Moyenne</i>	6.6	6.6	6.9	6.6	6.7	6.5	6.1	6.5	6.7
	<i>Témoins</i>	6.6	6.6	7.0	6.6	6.8	6.6	6.1	6.7	6.7
	<i>PPDS (5 %)</i>	0.1	0.3	0.2	0.2	0.3	0.3	0.5	0.3	0.3
	<i>PPDS (1 %)</i>	0.1	0.4	0.3	0.3	0.4	0.4	0.7	0.4	0.4
	<i>C.V [%]</i>	3.0	2.8	2.0	2.1	2.6	3.1	5.2	2.9	2.6

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	2.5	24	2.69***	1.55	0.0000
Lieu	28.2	7	104.49***	2.03	0.0000
Interaction Lieu X variété	6.0	168	0.92n.s	1.23	0.7193
Erreur	14.8	384			
Total	51.5	583			
Erreur	34.0	406			

Mais ensilage mi-précoce
série 11

Silomaïs mittelfrüh
Serie 11

Culture	Série	N ^o .	Lieu	Altitude	Date semis	Date récolte
SM	11	1260	Changins	430	27.avr.10	-
SM	11	1376	Goumoëns / VD	622	19.mai.10	22.sept.10
SM	11	1567	Delley / FR	514		
SM	11	1725	Grangeneuve /FR	650	26.avr.10	28.sept.10
SM	11	3425	Koppigen / BE	476	25.mai.10	06.oct.10
SM	11	3629	Liebegg / AG	539	30.avr.10	29.sept.10
SM	11	8046	Reckenholz / ZH	440	29.avr.10	28.sept.10
SM	11	8193	Eglisau / ZH	390	28.avr.10	01.oct.10
SM	11	8566	Ellighausen / TG	517	28.mai.10	22.oct.10

Maïs ensilage mi-précoce
série 11

Silomais mittelfrüh
Serie 11

Nom	Synonyme	Type d'hybride	Obtenteur	Représentant	Inscrite en	KM	SM
Amadeo	<i>KX 2030</i>	SC	KWS / D	KWS, Basel	2006		SM11/S
LG 32.52	<i>LZM 254/32</i>	TC	Limagrain / F	Fenaco, Yverdon	2007		SM11/S
LG 32.20	<i>ADV 4636</i>	SC	Limagrain/Advanta / NL	Fenaco, Yverdon	2008	KM11/S	SM11/S
NK Cassio	<i>NX 1074</i>	SC	Syngenta/F	Syngenta, Monthey	2008		SM11/S
Ricardinio	<i>KXA 6123</i>	SC	KWS / D	KWS, Basel	2010	KM11/S	SM11/S
Coxximo		SC	RAGT / F	Fenaco, Yverdon	2006		SM01/T
Ronaldinio	<i>KXA 4162</i>	TC	KWS / D	KWS, Basel	2007		SM21/T
Ciclixx		SC	RAGT / F	Fenaco, Yverdon	2007		SM11/T
LG 30.218	<i>LZM 157/72</i>	SC	Limagrain / F	Fenaco, Yverdon	2010		SM11/T
NK Gitago	<i>NX 0795</i>	SC	Syngenta / CH	Syngenta, Monthey	2010		SM01/T
DSP 37247	<i>DSP 37247</i>		DSP / CH	DSP, Delley			SM11/2.
P8000	<i>X6T584</i>	SC	PIONEER / USA	Pioneer, Manno		KM11/e2	SM11/e2
DSP 38264	<i>DSP 38264</i>		DSP / CH	DSP, Delley			SM11/2.
LG 30225	<i>LZM 158/77</i>	SC	Limagrain / F	Fenaco, Yverdon			SM11/e2
DSP38457B11	<i>DSP38457B11</i>		DSP / CH	DSP, Delley			SM11/1.
Geoxx	<i>RH08023</i>	SC	R2n, RAGT	Fenaco, Yverdon			SM11/e1
Ulrixx	<i>RH08141</i>	SC	R2n, RAGT	Fenaco, Yverdon			SM11/e1
LZM 159/51	<i>LZM 159/51</i>	SC	Limagrain / F	Fenaco, Yverdon			SM11/e1
Ordani CS	<i>Ordani CS</i>	SC	Caussade semences	Juramentement			SM11/e1
Silvinio	<i>KXA 8121</i>	TC	KWS / D	KWS, Basel		KM01/e1	SM11/e1
KXA 9306	<i>KXA 9306</i>	TC	KWS / D	KWS, Basel		KM01/e1	SM11/e1
KXA 9331	<i>KXA 9331</i>	SC	KWS / D	KWS, Basel		KM11/e1	SM11/e1
ES Fortran	<i>EGZ 7108</i>	SC	Euralis	Hauenstein, Rafz			SM11/e1
EGZ 9202	<i>EGZ 9202</i>	TC	Euralis	Hauenstein, Rafz			SM11/e1
Laboom		TC	AgaSaat	Schweizer, Thun			SM11/e1

Calcul de l'indice série 11

Index-Berechnung Serie 11

			MOD	Rendement	Précocité (teneur MS)	Vigueur au départ	Verse végétation	Verse récolte	Plantes cassées à la récolte	Charbon	Indice Economique	Indice agronomique	Indice Global
			0.4	0.5	1.25	0.5	0.25	0.75	0.75	0.25			
KXA 9331	<i>KXA 9331</i>	e1	3.5	1.9	-0.3	0.2	-1.7			0.0	5.4	-1.8	3.6
Ricardinio	<i>KXA 6123</i>	* STD	-0.2	3.4	-0.3	0.2	-0.2			0.0	3.2	-0.4	2.8
LZM 159/51	<i>LZM 159/51</i>	e1	-0.6	2.6	0.1	0.2	-0.7			0.0	2.0	-0.4	1.6
KXA 9306	<i>KXA 9306</i>	e1	-4.1	5.2	1.5	0.4	-1.8			0.0	1.2	0.1	1.3
LG30.218	<i>LZM 157/72</i>	T	1.3	0.9	0.0	0.3	-1.9			0.0	2.1	-1.5	0.6
DSP 37247	<i>DSP 37247</i>	2	-1.5	3.5	-1.3	0.1	-2.4			-0.3	2.0	-3.9	-1.8
LG 30225	<i>LZM 158/77</i>	e1	-0.3	1.2	-0.6	0.4	-2.6			0.0	0.9	-2.8	-1.8
Geoxx	<i>RH08023</i>	e1	-5.4	5.6	-1.3	0.1	-1.9			0.0	0.2	-3.0	-2.7
LG 32.20	<i>ADV 4636</i>	* STD	0.2	-3.4	0.3	-0.2	0.2			0.0	-3.2	0.4	-2.8
P8000	<i>X6T584</i>	e2	-0.8	0.8	-0.9	-0.2	-2.8			0.0	0.0	-3.8	-3.8
Ronaldinio	<i>KXA 4162</i>	T	-2.3	0.2	-0.2	0.1	-2.3			0.0	-2.2	-2.4	-4.6
NK Cassio	<i>NX 1074</i>	STD	-2.5	-2.1	1.8	0.1	-1.8			-0.1	-4.6	0.0	-4.6
Ulrixx	<i>RH08141</i>	e1	-6.3	2.8	-1.5	-0.2	-1.8			0.0	-3.5	-3.4	-7.0
Coxximo	<i>Coxximo</i>	T	-5.3	-1.3	1.7	0.0	-2.0			-0.1	-6.7	-0.4	-7.0
EGZ 9202	<i>EGZ 9202</i>	e1	-4.2	0.0	-1.1	0.1	-2.1			0.0	-4.2	-3.1	-7.2
DSP38457B11	<i>DSP38457B11</i>	1	-7.8	1.6	-1.3	0.4	-2.5			0.0	-6.3	-3.3	-9.6
Ciclixx	<i>Ciclixx</i>	T	-4.2	-2.4	-1.3	-0.1	-2.1			0.0	-6.5	-3.5	-10.0
Amadeo	<i>KX 2030</i>	STD	-4.1	-6.8	1.6	0.3	-1.7			0.0	-10.9	0.2	-10.7
Silvinio	<i>KXA 8121</i>	e1	-7.8	-2.3	0.9	0.0	-1.8			-0.1	-10.1	-0.9	-11.0
Laboom	<i>Laboom</i>	e1	-4.3	-3.8	-2.0	0.3	-1.7			0.0	-8.1	-3.5	-11.7
ES Fortran	<i>EGZ 7108</i>	e1	-4.4	-4.9	0.2	0.0	-2.5			0.0	-9.3	-2.3	-11.7
DSP 38264	<i>DSP 38264</i>	2	-4.4	-1.7	-3.5	0.1	-3.0			-0.2	-6.1	-6.5	-12.6
LG 32.52	<i>LZM 254/32</i>	STD	-10.9	-0.3	-1.7	0.0	0.0			0.0	-11.3	-1.6	-12.8
NK Gitago	<i>NX 01795</i>	T	-5.1	-6.7	1.0	-0.1	-2.0			-0.1	-11.8	-1.2	-13.0
Ordani CS	<i>Ordani CS</i>	e1	-16.8	0.9	-2.1	0.0	-1.0			0.0	-16.0	-3.0	-19.0
	pondération		0.4	0.5	1.25	0.5	0.25	0.75	0.75	0.25			
	nb de lieux		8	8	8	8	4	0	0	2			

Résumé des observations

série 11

	Teneur MS	Rendement net à 0 % H2O	Rendement val. Rel.	Vigueur au départ	Verse en végétation	Helmintho-sporiose	Charbon	Hauteur des plantes	Hauteur de l'épi	Hauteur relative de l'épi (%)	nb de jour du semis à 50% de floraison femelle	densité des plantes à la récolte (pl/m2)
	%	(dt/ha)	(%)	(note)	(%)	(note)	(%)	(cm)	(cm)			
STD Amadeo	34.9	189.4	93.5	2.1	22.4	3.3	0.6	240.0	110.0	45.8	82.7	9.8
STD LG 32.52	32.3	202.4	99.4	2.7	8.9	2.7	0.0	260.0	120.0	46.1	85.3	9.8
STD LG 32.20 *	33.9	196.2	96.6	3.2	7.1	2.2	0.6	246.7	116.7	47.3	84.3	9.6
STD NK Cassio	35.1	198.8	98.2	2.6	23.5	2.6	2.1	256.7	116.7	45.4	84.7	9.7
STD Ricardinio *	33.4	210.0	103.4	2.4	10.8	2.9	1.0	276.7	140.0	50.7	83.0	9.3
T Coxximo	35.0	200.4	98.7	2.8	24.8	3.3	2.6	263.3	120.0	45.5	84.3	9.9
T Ronaldinio	33.5	203.4	100.7	2.7	27.4	2.2	0.0	246.7	113.3	46.0	82.7	9.7
T Ciclixx	32.6	198.4	97.5	3.0	25.5	2.8	0.9	263.3	115.0	43.6	85.7	9.6
T LG30.218	33.7	204.9	101.1	2.2	23.8	2.7	0.7	240.0	113.3	47.3	83.0	9.4
T NK Gitago	34.5	189.7	93.4	3.0	25.2	2.8	2.7	250.0	113.3	45.3	85.0	9.4
2 DSP 37247	32.7	210.1	103.4	2.7	28.0	1.8	5.2	270.0	130.0	48.1	86.0	9.4
e2 P8000	33.0	204.8	100.6	3.2	31.0	1.7	0.6	266.7	130.0	48.7	85.7	9.5
2 DSP 38264	30.9	199.7	98.5	2.5	32.8	1.8	4.0	256.7	120.0	46.8	85.3	9.3
e1 LG 30225	33.2	205.6	101.5	2.0	29.4	2.3	0.9	250.0	118.3	47.3	83.0	9.6
1 DSP38457B11	32.7	206.2	102.1	2.0	29.2	2.8	0.0	256.7	123.3	48.1	86.0	9.3
e1 Geoxx	32.7	214.3	105.4	2.5	23.9	2.3	0.3	266.7	123.3	46.3	85.0	9.3
e1 Ulrixx	32.5	208.6	102.8	3.1	23.7	2.8	0.0	273.3	121.7	44.5	86.3	9.7
e1 LZM 159/51	33.8	208.3	102.5	2.3	14.8	3.1	0.6	250.0	118.3	47.4	83.3	9.5
e1 Ordani CS	32.0	204.8	101.0	2.8	16.7	2.4	0.0	273.3	141.7	51.9	85.7	9.6
e1 Silvinio	34.4	198.5	98.1	2.7	23.3	5.1	1.8	260.0	125.0	48.2	83.7	9.9
e1 KXA 9306	34.8	213.6	105.4	2.0	23.3	2.6	0.0	270.0	123.3	45.7	84.0	9.7
e1 KXA 9331	33.4	206.8	102.2	2.4	22.6	2.1	0.6	253.3	120.0	47.4	84.0	9.6
e1 ES Fortran	33.8	193.3	95.1	2.8	28.9	2.4	1.5	246.7	116.7	47.3	84.7	9.5
e1 EGZ 9202	32.8	203.1	100.4	2.5	25.8	2.3	1.0	250.0	120.0	48.0	84.7	9.6
e1 Laboom	32.0	195.5	96.2	2.3	22.8	4.1	1.1	248.3	120.0	48.3	82.7	9.2
Moyenne	33.3	202.7	99.9	2.6	23.0	2.7	1.2	257.4	121.2	47.1	84.4	9.6
Témoins	33.7	203.1	100.0	2.8	8.9	2.5	0.8	261.7	128.3	49.0	83.7	9.5
PPDS (5 %)	0.6	7.0		0.4	6.7	0.6	2.8	14.2	10.8	3.7	1.1	0.4
PPDS (1 %)	0.8	9.2		0.5	8.8	0.8	3.7	19.0	14.4	5.0	1.5	0.5
C.V [%]	3.1	6.1		25.4	36.2	26.6	210.6	3.4	5.4	4.8	0.8	6.7
Nb de lieux	8	8		8	4	4	2	1	1	1	1	8

Résumé des observations (2)

série 11

	Teneur en matière organique digestible (MOD) (g/kg MS)	Teneur en cellulose brute (g/kg MS)	Matière azotée (g/kg MS)	Teneur en amidon (g/kg MS)	Teneur en parois cellulaires (NDF) (g/kg MS)	Energie nette pour la lactation (MJ/kg MS)
STD Amadeo	715.3	159.9	70.5	340.3	369.1	6.5
STD LG 32.52	698.1	170.3	75.6	280.1	405.2	6.3
STD LG 32.20 *	726.0	162.7	70.0	337.8	380.7	6.6
STD NK Cassio	719.2	161.8	69.8	339.3	370.9	6.6
STD Ricardinio *	724.8	160.7	67.5	335.9	371.0	6.6
T Coxximo	712.2	160.1	70.0	327.6	386.3	6.5
T Ronaldinio	719.6	160.3	71.0	325.9	381.5	6.6
T Ciclixx	715.0	162.9	71.2	302.3	391.5	6.5
T LG30.218	728.5	166.2	69.9	339.1	385.3	6.7
T NK Gitago	712.6	164.9	70.6	328.0	378.9	6.5
2 DSP 37247	721.8	163.2	68.2	311.5	388.0	6.6
e2 P8000	723.3	166.1	65.5	327.9	377.6	6.6
2 DSP 38264	714.3	172.4	65.6	294.1	394.2	6.5
e1 LG 30225	724.6	173.5	69.9	331.1	386.7	6.6
1 DSP38457B11	705.8	170.1	68.6	288.9	402.6	6.4
e1 Geoxx	712.0	175.5	64.8	310.3	397.9	6.5
e1 Ulrixx	709.7	173.1	68.6	285.3	396.1	6.5
e1 LZM 159/51	723.8	167.8	67.1	327.8	388.1	6.6
e1 Ordani CS	683.3	183.3	70.7	292.0	417.5	6.2
e1 Silvinio	706.0	164.4	65.2	355.2	379.3	6.4
e1 KXA 9306	715.3	164.2	66.9	333.8	377.2	6.5
e1 KXA 9331	734.1	157.9	70.2	364.5	359.2	6.7
e1 ES Fortran	714.3	161.0	72.0	321.2	386.0	6.5
e1 EGZ 9202	714.9	172.7	66.4	329.5	389.5	6.5
e1 Laboom	714.5	162.9	69.9	327.9	378.3	6.5
Moyenne	715.6	166.3	69.0	322.3	385.5	6.5
Témoins	725.4	161.7	68.8	336.8	375.8	6.6
PPDS (5 %)	10.6	6.9	1.8	15.6	13.2	0.1
PPDS (1 %)	14.0	9.1	2.4	20.5	17.4	0.2
C.V [%]	2.6	7.4	4.7	8.5	6.0	3.2
Nb de lieux	8	8	8	8	8	8

Précocité / Reife

	<i>Moyenne</i>	Ellighausen	Delley	Eglisau	Goumoens	Grangeneuve	Liebegg	Koppigen	Reckenholz
STD Amadeo	34.9	34.6	35.5	39.1	31.5	26.3	38.5	37.8	36.0
STD LG 32.52	32.3	33.7	33.2	35.9	31.3	24.9	33.5	33.2	33.0
STD LG 32.20	* 33.9	32.5	34.5	39.3	32.0	27.2	38.1	32.9	34.8
STD NK Cassio	35.1	35.6	34.6	40.8	31.5	29.3	37.1	35.3	37.0
STD Ricardinio	* 33.4	32.5	35.3	37.3	31.7	27.2	35.6	34.0	33.8
T Coxximo	35.0	33.0	34.6	38.5	33.3	29.7	38.1	37.4	35.7
T Ronaldinio	33.5	31.8	35.6	37.6	31.6	28.4	36.0	32.2	34.7
T Ciclix	32.6	31.3	33.0	36.9	30.7	25.5	35.0	35.0	33.7
T LG30.218	33.7	33.3	35.3	38.1	30.7	26.1	35.9	35.3	34.7
T NK Gitago	34.5	33.9	34.9	40.2	31.1	25.2	37.9	36.5	36.5
2 DSP 37247	32.7	32.1	33.0	37.2	29.1	28.6	34.2	33.3	33.7
e2 P8000	33.0	31.8	34.3	37.8	31.3	26.7	35.2	32.6	34.0
2 DSP 38264	30.9	31.2	31.7	37.3	29.0	21.7	32.3	31.6	32.5
e1 LG 30225	33.2	33.1	33.8	38.9	31.3	25.8	33.7	34.9	34.2
1 DSP38457B11	32.7	30.6	33.5	38.6	29.2	26.1	33.4	35.5	34.4
e1 Geox	32.7	32.2	33.5	36.4	30.2	26.4	35.3	33.0	34.5
e1 Ulrixx	32.5	31.0	33.4	37.9	31.5	26.3	35.6	31.0	33.3
e1 LZM 159/51	33.8	33.0	34.3	38.6	31.7	26.9	36.0	34.7	35.0
e1 Ordani CS	32.0	32.9	34.4	37.5	30.7	22.9	34.0	30.4	33.2
e1 Silvinio	34.4	35.3	34.7	38.7	29.8	26.6	40.8	34.1	35.2
e1 KXA 9306	34.8	35.4	34.6	39.6	30.6	27.7	39.1	36.0	35.8
e1 KXA 9331	33.4	35.9	34.3	37.4	30.2	27.1	35.5	32.6	34.4
e1 ES Fortran	33.8	32.6	35.1	39.0	31.6	25.8	36.0	34.9	35.5
e1 EGZ 9202	32.8	32.1	33.8	36.7	30.2	27.0	34.7	33.4	34.4
e1 Laboom	32.0	32.9	33.0	36.0	28.7	24.5	34.9	32.5	33.8
<i>Moyenne</i>	33.3	33.0	34.1	38.1	30.8	26.4	35.9	34.0	34.6
<i>Témoins</i>	33.7	32.5	34.9	38.3	31.8	27.2	36.9	33.4	34.3
<i>PPDS (5 %)</i>	0.6	1.2	1.1	1.5	1.9	2.6	1.9	1.6	1.2
<i>PPDS (1 %)</i>	0.8	1.6	1.4	2.1	2.5	3.4	2.6	2.2	1.7
<i>C.V [%]</i>	3.1	2.2	1.9	2.5	3.7	5.9	3.2	2.9	2.2

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	663.3	24	26.02***	1.55	0.0000
Lieu	6433.6	7	865.09***	2.03	0.0000
Interaction Lieu X variété	617.1	168	3.46***	1.23	0.0000
Erreur	408.0	384			
Total	8122.1	583			

Rendement / Ertrag

	<i>Moyenne</i>	Ellighausen	Delley	Eglisau	Goumoens	Grangeneuve	Liebegg	Koppigen	Reckenholz
STD Amadeo	189.4	190.1	159.0	203.0	175.5	183.9	217.5	153.1	233.5
STD LG 32.52	202.4	198.4	148.0	243.6	186.5	176.1	223.2	181.7	261.8
STD LG 32.20	* 196.2	187.5	154.4	234.1	177.5	183.4	223.9	168.7	240.4
STD NK Cassio	198.8	192.5	161.0	233.6	172.6	202.4	220.7	173.7	234.2
STD Ricardinio	* 210.0	212.9	167.7	237.0	186.0	202.5	241.8	172.2	259.7
T Coxximo	200.4	188.2	153.1	242.2	176.7	211.3	231.7	168.1	231.8
T Ronaldinio	203.4	193.4	165.4	244.3	186.7	204.8	222.7	183.6	226.5
T Ciclixx	198.4	184.7	166.0	244.5	176.3	172.7	240.2	163.2	239.3
T LG30.218	204.9	194.3	173.4	249.5	176.4	195.3	233.7	175.6	240.6
T NK Gitago	189.7	183.9	155.9	235.0	159.6	172.3	225.9	162.4	222.4
2 DSP 37247	210.1	206.2	168.0	261.1	170.6	218.9	257.5	170.3	228.1
e2 P8000	204.8	195.4	153.6	240.8	179.6	193.0	248.2	176.5	251.0
2 DSP 38264	199.7	204.0	167.5	253.0	191.7	182.5	229.9	152.4	216.8
e1 LG 30225	205.6	191.0	174.8	251.9	184.8	193.6	239.5	173.0	236.2
1 DSP38457B11	206.2	183.5	171.1	247.7	182.6	211.4	236.7	188.6	228.2
e1 Geoxx	214.3	198.1	181.7	249.9	196.8	208.1	260.5	159.8	259.2
e1 Ulrixx	208.6	198.7	176.5	245.3	195.8	206.2	243.0	157.0	246.6
e1 LZM 159/51	208.3	191.7	174.5	238.3	177.6	211.9	241.9	168.6	261.6
e1 Ordani CS	204.8	216.5	174.6	243.7	184.5	165.0	240.1	170.5	243.6
e1 Silvinio	198.5	210.0	161.0	239.4	179.0	185.9	208.5	172.7	231.3
e1 KXA 9306	213.6	203.2	175.8	255.5	185.5	198.9	243.3	193.0	253.3
e1 KXA 9331	206.8	217.1	162.8	242.0	173.8	200.9	234.0	189.9	234.0
e1 ES Fortran	193.3	194.6	151.3	234.6	169.9	162.3	231.4	172.5	229.8
e1 EGZ 9202	203.1	207.3	161.8	233.6	187.3	193.7	236.0	176.9	228.3
e1 Laboom	195.5	193.9	163.4	238.5	173.4	185.2	226.0	148.2	235.8
<i>Moyenne</i>	202.7	197.5	164.9	241.7	180.3	192.9	234.3	170.9	239.0
<i>Témoins</i>	203.1	200.2	161.0	235.6	181.7	193.0	232.9	170.4	250.1
<i>PPDS (5 %)</i>	7.0	21.7	14.3	20.9	15.0	22.8	21.7	22.5	20.7
<i>PPDS (1 %)</i>	9.2	29.0	19.0	27.9	20.0	30.4	29.0	30.1	27.6
<i>C.V [%]</i>	6.1	6.7	5.3	5.3	5.1	7.2	5.7	8.0	5.3

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	25657.7	24	7.06***	1.55	0.0000
Lieu	517589.2	7	488.42***	2.03	0.0000
Interaction Lieu X variété	49794.1	168	1.96***	1.23	0.0000
Erreur	58133.1	384			
Total	651174.2	583			

Rendement relatif / Relativer Ertrag

	<i>Moyenne</i>	Ellichhausen	Delley	Eglisau	Goumoens	Grangeneuve	Liebegg	Koppigen	Reckenholz
STD Amadeo	93.5	95.0	98.7	86.2	96.6	95.3	93.4	89.8	93.4
STD LG 32.52	99.4	99.1	91.9	103.4	102.6	91.3	95.8	106.6	104.7
STD LG 32.20	* 96.6	93.6	95.8	99.4	97.6	95.0	96.1	99.0	96.1
STD NK Cassio	98.2	96.1	100.0	99.2	95.0	104.9	94.8	102.0	93.6
STD Ricardinio	* 103.4	106.4	104.2	100.6	102.4	105.0	103.9	101.0	103.9
T Coxximo	98.7	94.0	95.1	102.8	97.2	109.5	99.5	98.7	92.7
T Ronaldinio	100.7	96.6	102.7	103.7	102.7	106.1	95.7	107.7	90.6
T Ciclixx	97.5	92.3	103.1	103.8	97.0	89.5	103.2	95.8	95.7
T LG30.218	101.1	97.0	107.7	105.9	97.1	101.2	100.4	103.0	96.2
T NK Gitago	93.4	91.9	96.8	99.7	87.8	89.3	97.0	95.3	89.0
2 DSP 37247	103.4	103.0	104.3	110.9	93.9	113.5	110.6	99.9	91.2
e2 P8000	100.6	97.6	95.4	102.2	98.8	100.0	106.6	103.5	100.4
2 DSP 38264	98.5	101.9	104.0	107.4	105.5	94.6	98.7	89.4	86.7
e1 LG 30225	101.5	95.4	108.6	106.9	101.7	100.3	102.9	101.5	94.4
1 DSP38457B11	102.1	91.7	106.2	105.2	100.5	109.5	101.6	110.7	91.3
e1 Geoxx	105.4	99.0	112.8	106.1	108.3	107.8	111.9	93.8	103.7
e1 Ulrixx	102.8	99.2	109.6	104.1	107.7	106.8	104.3	92.1	98.6
e1 LZM 159/51	102.5	95.8	108.4	101.2	97.7	109.8	103.9	99.0	104.6
e1 Ordani CS	101.0	108.2	108.4	103.5	101.5	85.5	103.1	100.1	97.4
e1 Silvinio	98.1	104.9	100.0	101.6	98.5	96.4	89.5	101.4	92.5
e1 KXA 9306	105.4	101.5	109.1	108.4	102.0	103.1	104.5	113.2	101.3
e1 KXA 9331	102.2	108.5	101.1	102.7	95.6	104.1	100.5	111.4	93.6
e1 ES Fortran	95.1	97.2	94.0	99.6	93.5	84.1	99.4	101.2	91.9
e1 EGZ 9202	100.4	103.5	100.5	99.2	103.0	100.4	101.4	103.8	91.3
e1 Laboom	96.2	96.9	101.4	101.3	95.4	96.0	97.1	87.0	94.3
Moyenne	99.9	98.6	102.4	102.6	99.2	100.0	100.6	100.3	95.6
Témoins	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Vigueur au départ / Jugendentwicklung

	<i>Moyenne</i>	Ellighausen	Delley	Eglisau	Goumoens	Grangeneuve	Liebegg	Koppigen	Reckenholz
STD Amadeo	2.1	2.7	3.0	2.0	2.0	2.0	2.0	1.7	1.7
STD LG 32.52	2.7	3.3	3.3	3.0	2.0	2.0	3.3	1.7	3.0
STD LG 32.20	* 3.2	2.7	4.0	3.3	2.7	3.3	3.7	2.3	3.3
STD NK Cassio	2.6	2.7	3.0	2.7	2.7	1.3	3.3	2.3	3.0
STD Ricardinio	* 2.4	2.7	4.0	2.0	2.7	2.7	2.7	1.0	1.7
T Coxximo	2.8	3.7	3.0	2.7	2.3	2.7	2.7	2.3	3.0
T Ronaldinio	2.7	3.0	4.0	2.3	2.7	2.0	2.7	2.0	2.7
T Ciclixx	3.0	3.3	4.3	3.0	3.0	2.3	3.0	2.0	3.0
T LG30.218	2.2	2.3	2.0	2.3	1.7	1.7	2.0	2.3	3.0
T NK Gitago	3.0	3.7	3.7	3.3	3.3	2.7	2.7	2.3	2.3
2 DSP 37247	2.7	3.0	3.0	3.0	2.3	2.3	2.7	2.3	2.7
e2 P8000	3.2	3.3	4.3	3.3	3.0	2.7	3.3	2.3	3.3
2 DSP 38264	2.5	2.7	2.7	3.0	2.7	1.3	3.0	2.7	2.0
e1 LG 30225	2.0	3.0	2.7	2.3	1.3	1.0	2.0	1.7	2.3
1 DSP38457B11	2.0	2.7	2.0	2.7	1.3	2.0	2.0	1.0	2.0
e1 Geoxx	2.5	2.7	3.7	2.7	2.7	1.3	2.7	1.7	2.7
e1 Ulrixx	3.1	4.0	3.3	3.0	3.3	2.3	3.0	2.7	3.3
e1 LZM 159/51	2.3	2.7	3.7	2.3	1.7	2.0	2.0	2.0	2.3
e1 Ordani CS	2.8	3.3	3.7	2.3	2.3	2.3	2.7	3.0	2.7
e1 Silvinio	2.7	3.0	4.3	2.3	2.7	2.3	3.0	1.7	2.3
e1 KXA 9306	2.0	2.7	2.7	1.3	1.3	2.3	2.0	1.3	2.0
e1 KXA 9331	2.4	2.3	4.3	2.0	2.0	2.3	2.0	1.7	2.3
e1 ES Fortran	2.8	3.0	3.0	3.0	3.0	3.0	2.3	2.0	2.7
e1 EGZ 9202	2.5	2.7	3.3	3.0	2.3	2.0	2.7	1.7	2.3
e1 Laboom	2.3	2.3	3.7	2.0	2.0	2.0	2.3	1.7	2.3
<i>Moyenne</i>	2.6	2.9	3.4	2.6	2.4	2.2	2.6	2.0	2.6
<i>Témoins</i>	2.8	2.7	4.0	2.7	2.7	3.0	3.2	1.7	2.5
<i>PPDS (5 %)</i>	0.4	0.8	1.5	0.9	0.7	1.1	1.1	1.4	0.8
<i>PPDS (1 %)</i>	0.5	1.1	2.1	1.1	1.0	1.4	1.4	1.8	1.1
<i>C.V [%]</i>	25.4	16.9	27.8	20.1	19.0	30.3	25.2	42.6	19.8

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	77.5	24	7.52***	1.55	0.0000
Lieu	102.8	7	34.21***	2.03	0.0000
Interaction Lieu X variété	89.0	168	1.23n.s	1.23	0.0508
Erreur	164.9	384			
Total	434.2	583			

Verse en végétation (%) /Lagerung während Vegetation (%)

	<i>Moyenne</i>	Delley	Eglisau	Liebegg	Reckenholz
STD Amadeo	22.4	3.7	0.0	0.0	86.1
STD LG 32.52	8.9	0.0	1.7	0.0	33.8
STD LG 32.20	* 7.1	1.2	0.0	1.2	25.9
STD NK Cassio	23.5	3.5	0.0	0.5	90.0
STD Ricardinio	* 10.8	0.0	0.0	0.6	42.5
T Coxximo	24.8	1.2	1.2	2.8	94.0
T Ronaldinio	27.4	3.7	1.1	6.8	97.9
T Ciclixx	25.5	3.7	0.0	3.0	95.3
T LG30.218	23.8	1.2	8.6	4.4	81.2
T NK Gitago	25.2	1.2	0.0	1.2	98.3
2 DSP 37247	28.0	1.2	13.6	7.4	90.0
e2 P8000	31.0	17.5	3.3	3.2	100.0
2 DSP 38264	32.8	1.2	28.7	2.6	98.7
e1 LG 30225	29.4	4.8	6.1	11.1	95.4
1 DSP38457B11	29.2	1.2	11.8	5.1	98.7
e1 Geoxx	23.9	1.2	5.5	2.5	86.6
e1 Ulrixx	23.7	3.7	6.1	0.6	84.4
e1 LZM 159/51	14.8	0.0	0.6	0.0	58.4
e1 Ordani CS	16.7	1.2	0.0	4.4	61.3
e1 Silvinio	23.3	2.5	0.6	0.0	89.9
e1 KXA 9306	23.3	1.2	0.0	0.0	91.9
e1 KXA 9331	22.6	1.2	0.7	0.0	88.5
e1 ES Fortran	28.9	8.7	6.0	7.7	93.1
e1 EGZ 9202	25.8	7.5	3.8	3.0	88.7
e1 Laboom	22.8	3.7	0.0	0.0	87.5
<i>Moyenne</i>	23.0	3.0	4.0	2.7	82.3
<i>Témoins</i>	8.9	0.6	0.0	0.9	34.2
<i>PPDS (5 %)</i>	6.7	5.7	9.9	6.5	24.0
<i>PPDS (1 %)</i>	8.8	7.7	13.2	8.7	32.0
<i>C.V [%]</i>	36.2	115.4	150.9	145.7	17.7

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	12629.5	24	7.58***	1.57	0.0000
Lieu	351832.9	3	1'689.36***	2.65	0.0000
Interaction Lieu X variété	23463.1	72	4.69***	1.36	0.0000
Erreur	13328.9	192			
Total	401254.4	291			

Helminthosporium (note)

	<i>Moyenne</i>	Eglisau	Liebegg	Koppigen	Reckenholz
STD Amadeo	3.3	2.0	2.7	6.7	1.7
STD LG 32.52	2.7	1.7	2.0	5.0	2.0
STD LG 32.20	* 2.2	1.7	2.7	3.3	1.0
STD NK Cassio	2.6	2.0	2.3	4.3	1.7
STD Ricardinio	* 2.9	1.7	2.7	4.7	2.7
T Coxximo	3.3	2.0	2.7	6.0	2.7
T Ronaldinio	2.2	1.7	2.0	3.0	2.0
T Ciclixx	2.8	1.7	1.7	5.7	2.0
T LG30.218	2.7	1.7	2.7	5.0	1.3
T NK Gitago	2.8	1.7	2.3	5.0	2.0
2 DSP 37247	1.8	1.3	1.0	3.7	1.0
e2 P8000	1.7	1.3	1.3	2.3	1.7
2 DSP 38264	1.8	1.0	1.3	3.0	1.7
e1 LG 30225	2.3	1.3	2.0	4.7	1.3
1 DSP38457B11	2.8	3.0	1.3	5.0	2.0
e1 Geoxx	2.3	2.0	1.7	4.3	1.0
e1 Ulrixx	2.8	1.7	2.0	4.3	3.0
e1 LZM 159/51	3.1	2.7	2.7	4.3	2.7
e1 Ordani CS	2.4	2.3	1.7	3.7	2.0
e1 Silvinio	5.1	3.0	6.0	6.7	4.7
e1 KXA 9306	2.6	2.0	2.3	4.7	1.3
e1 KXA 9331	2.1	1.7	2.0	3.0	1.7
e1 ES Fortran	2.4	1.3	2.0	4.7	1.7
e1 EGZ 9202	2.3	1.7	2.0	4.0	1.7
e1 Laboom	4.1	3.0	4.0	6.0	3.3
<i>Moyenne</i>	2.7	1.9	2.3	4.5	2.0
<i>Témoins</i>	2.5	1.7	2.7	4.0	1.8
<i>PPDS (5 %)</i>	0.6	1.2	1.1	1.2	1.2
<i>PPDS (1 %)</i>	0.8	1.6	1.4	1.6	1.6
<i>C.V [%]</i>	26.6	39.3	28.1	16.2	36.4

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	155.7	24	12.87***	1.57	0.0000
Lieu	349.9	3	231.35***	2.65	0.0000
Interaction Lieu X variété	78.4	72	2.16***	1.36	0.0000
Erreur	96.8	192			
Total	680.8	291			

Charbon (% de plantes atteintes) / Beulenbrand

	<i>Moyenne</i>	Eglisau	Reckenholz
STD Amadeo	0.6	0.0	1.2
STD LG 32.52	0.0	0.0	0.0
STD LG 32.20	*	0.6	1.1
STD NK Cassio	2.1	3.5	0.6
STD Ricardinio	*	1.0	1.9
T Coxximo	2.6	1.7	3.6
T Ronaldinio	0.0	0.0	0.0
T Ciclixx	0.9	0.0	1.8
T LG30.218	0.7	0.0	1.4
T NK Gitago	2.7	2.5	2.9
2 DSP 37247	5.2	3.9	6.5
e2 P8000	0.6	1.2	0.0
2 DSP 38264	4.0	5.0	3.0
e1 LG 30225	0.9	1.2	0.6
1 DSP38457B11	0.0	0.0	0.0
e1 Geoxx	0.3	0.0	0.6
e1 Ulrixx	0.0	0.0	0.0
e1 LZM 159/51	0.6	1.3	0.0
e1 Ordani CS	0.0	0.0	0.0
e1 Silvinio	1.8	1.9	1.7
e1 KXA 9306	0.0	0.0	0.0
e1 KXA 9331	0.6	0.7	0.6
e1 ES Fortran	1.5	2.4	0.6
e1 EGZ 9202	1.0	2.0	0.0
e1 Laboom	1.1	0.0	2.3
<i>Moyenne</i>	1.2	1.1	1.2
<i>Témoins</i>	0.8	0.0	1.5
<i>PPDS (5 %)</i>	2.8	3.5	4.4
<i>PPDS (1 %)</i>	3.7	4.7	5.9
<i>C.V [%]</i>	210.6	195.7	221.5

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	245.6	24	1.74*	1.63	0.0309
Lieu	0.5	1	0.09n.s	3.94	0.7614
Interaction Lieu X variété	75.4	24	0.53n.s	1.63	0.9594
Erreur	563.7	96			
Total	885.2	145			

Hauteur des plantes (cm) / Pflanzenhöhe

	<i>Moyenne</i>	Reckenholz
STD Amadeo	240.0	240.0
STD LG 32.52	260.0	260.0
STD LG 32.20	* 246.7	246.7
STD NK Cassio	256.7	256.7
STD Ricardinio	* 276.7	276.7
T Coxximo	263.3	263.3
T Ronaldinio	246.7	246.7
T Ciclixx	263.3	263.3
T LG30.218	240.0	240.0
T NK Gitago	250.0	250.0
2 DSP 37247	270.0	270.0
e2 P8000	266.7	266.7
2 DSP 38264	256.7	256.7
e1 LG 30225	250.0	250.0
1 DSP38457B11	256.7	256.7
e1 Geoxx	266.7	266.7
e1 Ulrixx	273.3	273.3
e1 LZM 159/51	250.0	250.0
e1 Ordani CS	273.3	273.3
e1 Silvinio	260.0	260.0
e1 KXA 9306	270.0	270.0
e1 KXA 9331	253.3	253.3
e1 ES Fortran	246.7	246.7
e1 EGZ 9202	250.0	250.0
e1 Laboom	248.3	248.3
<i>Moyenne</i>	257.4	257.4
<i>Témoins</i>	261.7	261.7
<i>PPDS (5 %)</i>	14.2	14.2
<i>PPDS (1 %)</i>	19.0	19.0
<i>C.V [%]</i>	3.4	3.4

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	8168.0	24	4.52***	1.75	0.0000
Erreur	3616.0	48			
Total	11784.0	72			

Hauteur de l'insertion de l'épi (cm) / Ansatzhöhe des obersten Kolbens

	<i>Moyenne</i>	Reckenholz
STD Amadeo	110.0	110.0
STD LG 32.52	120.0	120.0
STD LG 32.20	* 116.7	116.7
STD NK Cassio	116.7	116.7
STD Ricardinio	* 140.0	140.0
T Coxximo	120.0	120.0
T Ronaldinio	113.3	113.3
T Ciclixx	115.0	115.0
T LG30.218	113.3	113.3
T NK Gitago	113.3	113.3
2 DSP 37247	130.0	130.0
e2 P8000	130.0	130.0
2 DSP 38264	120.0	120.0
e1 LG 30225	118.3	118.3
1 DSP38457B11	123.3	123.3
e1 Geoxx	123.3	123.3
e1 Ulrixx	121.7	121.7
e1 LZM 159/51	118.3	118.3
e1 Ordani CS	141.7	141.7
e1 Silvinio	125.0	125.0
e1 KXA 9306	123.3	123.3
e1 KXA 9331	120.0	120.0
e1 ES Fortran	116.7	116.7
e1 EGZ 9202	120.0	120.0
e1 Laboom	120.0	120.0
<i>Moyenne</i>	121.2	121.2
<i>Témoins</i>	128.3	128.3
<i>PPDS (5 %)</i>	10.8	10.8
<i>PPDS (1 %)</i>	14.4	14.4
<i>C.V [%]</i>	5.4	5.4

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	4175.3	24	4.04***	1.75	0.0000
Erreur	2068.7	48			
Total	6244.0	72			

Densité à la récolte (plantes/m2) / Effektive Bestandesdichte bei der Ernte

	<i>Moyenne</i>	Ellighausen	Delley	Eglisau	Goumoens	Grangeneuve	Liebegg	Koppigen	Reckenholz
STD Amadeo	9.8	9.6	10.4	9.4	9.1	9.9	9.2	10.5	10.0
STD LG 32.52	9.8	9.4	10.3	9.6	9.3	9.9	10.1	10.6	9.3
STD LG 32.20	* 9.6	8.7	10.3	9.9	9.2	9.6	9.5	10.5	9.4
STD NK Cassio	9.7	8.9	10.3	9.1	9.8	9.8	9.4	10.7	9.4
STD Ricardinio	* 9.3	9.0	10.3	9.7	9.2	9.0	9.1	9.9	8.4
T Coxximo	9.9	9.2	10.3	10.1	9.2	9.7	10.1	10.5	9.9
T Ronaldinio	9.7	8.7	10.3	9.0	9.3	9.8	9.5	11.0	9.8
T Ciclixx	9.6	8.6	10.5	9.5	9.1	9.8	9.4	10.1	9.4
T LG30.218	9.4	9.2	10.3	9.3	9.0	9.7	9.3	9.0	9.0
T NK Gitago	9.4	8.6	10.3	9.3	9.2	9.7	9.2	10.1	9.0
2 DSP 37247	9.4	9.1	9.9	9.3	9.1	10.0	9.4	9.9	8.6
e2 P8000	9.5	8.4	10.3	9.6	9.1	9.8	9.2	10.1	9.5
2 DSP 38264	9.3	8.9	10.1	9.1	9.0	10.3	9.2	8.9	8.6
e1 LG 30225	9.6	8.9	10.3	9.6	9.0	10.0	9.3	10.5	9.2
1 DSP38457B11	9.3	9.0	10.2	9.1	9.2	9.7	9.1	9.8	8.6
e1 Geoxx	9.3	8.8	10.3	9.1	9.1	9.5	8.9	9.2	9.4
e1 Ulrixx	9.7	9.1	10.3	9.6	9.1	10.4	9.5	9.5	10.2
e1 LZM 159/51	9.5	8.7	10.3	9.2	9.1	10.3	9.1	10.3	9.3
e1 Ordani CS	9.6	9.1	10.3	9.6	9.1	9.5	9.5	10.6	9.1
e1 Silvinio	9.9	9.9	10.3	9.8	9.4	9.5	9.8	11.2	9.5
e1 KXA 9306	9.7	9.5	10.4	9.8	9.2	8.9	9.5	10.5	9.8
e1 KXA 9331	9.6	9.1	10.3	9.7	9.2	9.6	9.5	10.4	9.3
e1 ES Fortran	9.5	8.9	10.3	9.8	9.1	8.8	9.0	10.9	9.6
e1 EGZ 9202	9.6	9.0	10.3	9.5	9.3	9.9	9.4	10.4	9.4
e1 Laboom	9.2	8.6	10.3	9.5	9.4	9.7	8.9	9.2	7.9
<i>Moyenne</i>	9.6	9.0	10.3	9.5	9.2	9.7	9.4	10.2	9.3
<i>Témoins</i>	9.5	8.9	10.3	9.8	9.2	9.3	9.3	10.2	8.9
<i>PPDS (5 %)</i>	0.4	1.0	0.4	0.8	0.5	2.1	0.9	0.9	0.9
<i>PPDS (1 %)</i>	0.5	1.3	0.5	1.1	0.7	2.8	1.2	1.2	1.2
<i>C.V [%]</i>	6.7	6.7	2.3	5.5	3.4	13.2	5.7	5.3	6.0

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	21.8	24	2.18**	1.55	0.0012
Lieu	112.0	7	38.53***	2.03	0.0000
Interaction Lieu X variété	59.5	168	0.85n.s	1.23	0.8811
Erreur	159.5	384			
Total	352.7	583			

Nb de jours du semis à la floraison femelle / Anzahl Tage zwischen Saat und 50% weiblicher Blüte

	<i>Moyenne</i>	Reckenholz
STD Amadeo	82.7	82.7
STD LG 32.52	85.3	85.3
STD LG 32.20	* 84.3	84.3
STD NK Cassio	84.7	84.7
STD Ricardinio	* 83.0	83.0
T Coxximo	84.3	84.3
T Ronaldinio	82.7	82.7
T Ciclixx	85.7	85.7
T LG30.218	83.0	83.0
T NK Gitago	85.0	85.0
2 DSP 37247	86.0	86.0
e2 P8000	85.7	85.7
2 DSP 38264	85.3	85.3
e1 LG 30225	83.0	83.0
1 DSP38457B11	86.0	86.0
e1 Geoxx	85.0	85.0
e1 Ulrixx	86.3	86.3
e1 LZM 159/51	83.3	83.3
e1 Ordani CS	85.7	85.7
e1 Silvinio	83.7	83.7
e1 KXA 9306	84.0	84.0
e1 KXA 9331	84.0	84.0
e1 ES Fortran	84.7	84.7
e1 EGZ 9202	84.7	84.7
e1 Laboom	82.7	82.7
<i>Moyenne</i>	84.4	84.4
<i>Témoins</i>	83.7	83.7
<i>PPDS (5 %)</i>	1.1	1.1
<i>PPDS (1 %)</i>	1.5	1.5
<i>C.V [%]</i>	0.8	0.8

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	99.7	24	9.00***	1.75	0.0000
Erreur	22.2	48			
Total	121.8	72			

Teneur en matière organique digestible

	<i>Moyenne</i>	Ellighausen	Delley	Eglisau	Goumoens	Grangeneuve	Liebegg	Koppigen	Reckenholz
STD Amadeo	715.3	741.8	720.8	716.4	708.0	700.5	717.0	692.4	725.4
STD LG 32.52	698.1	714.9	707.1	700.6	696.4	655.0	707.4	696.3	707.2
STD LG 32.20	* 726.0	743.4	737.8	727.8	726.2	696.3	714.2	719.0	743.6
STD NK Cassio	719.2	728.1	727.5	704.3	711.6	701.1	725.4	716.2	739.3
STD Ricardinio	* 724.8	746.5	738.7	729.3	721.6	676.8	730.4	723.2	731.8
T Coxximo	712.2	738.9	719.6	697.8	703.6	687.2	697.8	708.0	744.4
T Ronaldinio	719.6	748.1	724.0	722.5	726.3	687.7	713.5	702.7	731.8
T Ciclixx	715.0	728.8	727.3	716.2	709.1	661.9	722.0	710.9	743.6
T LG30.218	728.5	737.5	719.1	726.6	732.3	696.4	718.1	748.9	749.3
T NK Gitago	712.6	737.7	722.7	717.3	723.4	635.9	703.2	735.4	725.1
2 DSP 37247	721.8	729.5	739.6	734.2	700.5	695.5	747.2	714.3	713.3
e2 P8000	723.3	722.1	738.5	720.3	712.9	691.9	739.3	720.7	740.9
2 DSP 38264	714.3	727.8	724.7	726.2	696.1	654.4	718.8	726.9	739.8
e1 LG 30225	724.6	739.1	725.9	736.7	721.9	684.1	729.2	724.2	735.6
1 DSP38457B11	705.8	730.6	706.7	707.4	692.8	645.8	707.7	726.7	729.0
e1 Geoxx	712.0	718.6	735.0	702.1	710.7	665.4	733.5	698.0	732.5
e1 Ulrixx	709.7	746.4	708.3	720.4	713.7	636.8	721.3	708.1	722.3
e1 LZM 159/51	723.8	749.6	734.9	717.4	722.4	671.1	723.9	731.8	739.7
e1 Ordani CS	683.3	713.8	695.0	694.4	687.1	615.2	676.5	673.1	711.4
e1 Silvinio	706.0	730.5	712.7	721.9	675.1	692.7	697.0	703.1	714.7
e1 KXA 9306	715.3	745.1	721.9	733.9	691.5	675.8	722.9	704.5	726.4
e1 KXA 9331	734.1	772.5	751.6	738.3	727.2	695.8	724.6	718.9	744.3
e1 ES Fortran	714.3	745.6	718.0	711.7	714.2	661.0	715.1	714.1	734.9
e1 EGZ 9202	714.9	728.4	723.7	729.8	695.0	665.3	726.3	723.7	727.4
e1 Laboom	714.5	747.1	734.0	726.7	686.5	667.6	727.3	706.0	721.2
<i>Moyenne</i>	715.6	736.5	724.6	719.2	708.2	672.7	718.4	713.9	731.0
<i>Témoins</i>	725.4	744.9	738.3	728.6	723.9	686.5	722.3	721.1	737.7
<i>PPDS (5 %)</i>	10.6	25.9	31.0	22.6	32.9	48.7	21.7	33.2	20.0
<i>PPDS (1 %)</i>	14.0	34.6	41.4	30.2	43.9	65.0	28.9	44.3	26.6
<i>C.V [%]</i>	2.6	2.1	2.6	1.9	2.8	4.4	1.8	2.8	1.7

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	62152.3	24	7.38***	1.55	0.0000
Lieu	200589.8	7	81.63***	2.03	0.0000
Interaction Lieu X variété	70886.3	168	1.20n.s	1.23	0.0753
Erreur	134808.3	384			
Total	468436.7	583			

Teneur en cellulose brute (g/kg MS)

	<i>Moyenne</i>	Ellighausen	Delley	Eglisau	Goumoens	Grangeneuve	Liebegg	Koppigen	Reckenholz
STD Amadeo	159.9	157.1	154.7	145.5	181.5	183.4	154.0	157.4	145.2
STD LG 32.52	170.3	164.9	169.2	163.4	179.2	206.0	165.9	153.0	160.7
STD LG 32.20	* 162.7	158.5	153.4	158.5	176.6	188.4	165.0	152.1	149.1
STD NK Cassio	161.8	167.7	162.0	156.6	173.7	173.5	167.8	146.1	146.6
STD Ricardinio	* 160.7	159.6	153.2	160.1	173.2	191.7	154.2	147.1	146.5
T Coxximo	160.1	157.1	156.3	160.5	166.7	176.5	165.0	157.4	141.1
T Ronaldinio	160.3	157.7	164.4	153.0	167.7	180.8	161.6	150.8	146.6
T Ciclixx	162.9	164.9	163.7	161.4	176.2	194.8	157.2	145.6	139.7
T LG30.218	166.2	172.2	169.4	164.9	176.2	197.2	167.3	137.3	145.2
T NK Gitago	164.9	162.4	166.9	154.7	149.0	213.3	173.9	141.9	157.2
2 DSP 37247	163.2	170.8	157.0	151.4	165.0	188.9	158.7	146.0	167.5
e2 P8000	166.1	178.9	157.5	158.4	179.3	181.8	166.7	153.9	152.7
2 DSP 38264	172.4	181.1	172.3	160.8	179.4	206.5	179.9	149.8	149.5
e1 LG 30225	173.5	172.5	183.3	163.6	172.2	209.3	169.1	160.2	157.4
1 DSP38457B11	170.1	166.3	168.1	163.5	185.2	206.1	162.6	156.7	152.5
e1 Geoxx	175.5	177.4	169.9	173.7	183.0	201.1	174.8	168.9	155.3
e1 Ulrixx	173.1	166.2	183.6	159.9	181.7	214.9	161.2	153.8	163.2
e1 LZM 159/51	167.8	160.7	167.7	159.4	177.9	205.0	164.1	150.2	157.1
e1 Ordani CS	183.3	178.6	174.2	166.2	187.6	235.3	185.2	172.9	166.3
e1 Silvinio	164.4	161.7	166.7	154.1	192.7	184.1	153.5	146.8	155.7
e1 KXA 9306	164.2	157.9	159.4	141.4	182.6	191.9	168.5	161.3	150.3
e1 KXA 9331	157.9	149.0	151.8	148.0	148.6	191.9	169.2	160.0	145.0
e1 ES Fortran	161.0	153.8	153.7	155.7	162.3	194.0	165.8	158.5	144.2
e1 EGZ 9202	172.7	170.7	170.3	158.1	188.8	203.1	167.7	165.0	158.3
e1 Laboom	162.9	159.0	156.9	153.3	180.0	201.0	153.6	150.0	149.1
<i>Moyenne</i>	166.3	165.1	164.2	157.8	175.5	196.8	165.3	153.7	152.1
<i>Témoins</i>	161.7	159.0	153.3	159.3	174.9	190.0	159.6	149.6	147.8
<i>PPDS (5 %)</i>	6.9	15.4	18.2	17.4	23.5	30.1	15.8	18.0	18.1
<i>PPDS (1 %)</i>	9.1	20.5	24.2	23.3	31.3	40.1	21.1	24.1	24.1
<i>C.V [%]</i>	7.4	5.7	6.7	6.7	8.1	9.3	5.8	7.1	7.2

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	21704.0	24	6.04***	1.55	0.0000
Lieu	109117.1	7	104.19***	2.03	0.0000
Interaction Lieu X variété	28686.6	168	1.14n.s	1.23	0.1504
Erreur	57452.9	384			
Total	216960.7	583			

Teneur en protéines (g/kg MS)

	<i>Moyenne</i>	Ellighausen	Delley	Eglisau	Goumoens	Grangeneuve	Liebegg	Koppigen	Reckenholz
STD Amadeo	70.5	71.5	74.0	67.1	75.3	75.9	69.1	57.7	73.3
STD LG 32.52	75.6	79.0	82.3	63.6	79.9	78.7	77.9	65.9	77.6
STD LG 32.20	* 70.0	73.8	75.3	62.5	75.7	74.6	67.4	63.0	67.9
STD NK Cassio	69.8	67.7	75.8	63.8	75.9	78.6	65.3	63.5	67.9
STD Ricardinio	* 67.5	68.9	70.2	62.3	69.1	74.8	65.9	58.7	70.6
T Coxximo	70.0	73.7	79.5	61.4	77.7	74.9	65.2	58.3	69.3
T Ronaldinio	71.0	71.9	74.9	65.3	79.9	77.2	70.7	55.9	72.1
T Ciclixx	71.2	70.9	80.0	65.7	77.1	72.7	68.0	61.3	74.1
T LG30.218	69.9	69.6	72.1	62.9	74.3	76.8	69.4	66.5	67.4
T NK Gitago	70.6	69.4	72.5	65.1	80.4	77.3	68.5	61.9	69.6
2 DSP 37247	68.2	64.1	75.1	59.9	77.1	78.5	66.7	59.3	64.7
e2 P8000	65.5	68.9	72.1	58.8	67.5	73.8	62.6	54.9	65.2
2 DSP 38264	65.6	66.0	71.9	60.6	69.5	71.8	64.0	51.7	69.4
e1 LG 30225	69.9	71.4	73.3	63.9	76.4	77.0	69.0	57.9	70.7
1 DSP38457B11	68.6	72.2	76.0	62.5	75.9	70.1	69.5	54.0	68.8
e1 Geoxx	64.8	64.9	71.2	59.2	72.2	72.7	59.7	56.2	62.4
e1 Ulrixx	68.6	72.9	74.4	60.9	76.0	70.1	66.7	60.5	67.4
e1 LZM 159/51	67.1	72.1	72.0	59.2	70.1	71.8	64.8	56.0	70.9
e1 Ordani CS	70.7	73.4	75.9	63.8	77.1	74.9	70.8	57.1	72.8
e1 Silvinio	65.2	61.8	68.9	63.0	70.4	68.1	63.8	58.8	66.9
e1 KXA 9306	66.9	69.7	72.7	61.2	71.5	74.1	62.2	56.0	68.3
e1 KXA 9331	70.2	66.2	74.4	65.4	82.9	77.5	66.0	61.1	68.2
e1 ES Fortran	72.0	74.9	80.7	65.0	77.8	80.4	66.9	57.8	72.8
e1 EGZ 9202	66.4	69.7	71.0	59.3	71.6	75.3	64.8	51.5	67.7
e1 Laboom	69.9	68.3	75.8	66.3	76.1	71.1	67.8	62.1	71.6
<i>Moyenne</i>	69.0	70.1	74.5	62.7	75.1	74.7	66.9	58.7	69.5
<i>Témoins</i>	68.8	71.4	72.7	62.4	72.4	74.7	66.7	60.8	69.2
<i>PPDS (5 %)</i>	1.8	4.2	5.3	6.3	6.0	6.5	3.7	5.9	3.8
<i>PPDS (1 %)</i>	2.4	5.7	7.1	8.4	8.0	8.7	4.9	7.9	5.1
<i>C.V [%]</i>	4.7	3.7	4.4	6.1	4.8	5.3	3.4	6.1	3.3

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	3598.8	24	14.27***	1.55	0.0000
Lieu	18826.7	7	256.00***	2.03	0.0000
Interaction Lieu X variété	3263.8	168	1.85***	1.23	0.0000
Erreur	4034.3	384			
Total	29723.6	583			

Teneur en amidon (g/kg MS)

	<i>Moyenne</i>	Ellighausen	Delley	Eglisau	Goumoens	Grangeneuve	Liebegg	Koppigen	Reckenholz
STD Amadeo	340.3	358.8	364.6	325.4	333.2	297.8	363.3	346.5	333.0
STD LG 32.52	280.1	282.4	315.8	307.7	299.5	199.4	297.4	277.9	260.5
STD LG 32.20	* 337.8	326.5	368.9	349.9	327.8	283.3	359.5	335.7	350.5
STD NK Cassio	339.3	339.5	349.2	333.8	330.6	305.6	349.9	365.2	340.7
STD Ricardinio	* 335.9	346.1	361.6	344.0	327.4	266.2	373.9	338.1	330.2
T Coxximo	327.6	323.3	344.0	335.8	315.0	268.4	347.2	343.2	343.9
T Ronaldinio	325.9	344.6	324.1	337.9	344.6	269.1	348.9	311.8	325.9
T Ciclixx	302.3	296.5	302.5	305.8	294.9	189.3	339.8	345.4	344.4
T LG30.218	339.1	318.4	345.5	356.6	340.9	269.4	339.0	378.8	364.2
T NK Gitago	328.0	335.8	330.8	369.4	355.2	210.0	323.1	383.1	316.5
2 DSP 37247	311.5	319.1	330.0	368.2	294.2	245.4	334.7	317.8	282.9
e2 P8000	327.9	299.4	364.1	363.6	328.8	257.3	346.3	330.4	333.5
2 DSP 38264	294.1	287.3	300.0	351.3	294.8	173.7	298.3	339.9	307.8
e1 LG 30225	331.1	314.9	328.2	356.8	339.3	262.2	352.8	368.3	326.6
1 DSP38457B11	288.9	281.8	315.6	328.6	271.7	157.7	306.4	361.9	287.3
e1 Geoxx	310.3	295.7	348.4	334.6	303.7	211.5	333.9	314.7	340.2
e1 Ulrixx	285.3	283.9	280.7	356.2	284.5	152.0	324.1	298.4	302.3
e1 LZM 159/51	327.8	330.8	328.6	351.0	298.5	266.5	353.0	376.0	318.2
e1 Ordani CS	292.0	290.3	314.9	342.1	285.3	214.2	295.5	272.1	321.6
e1 Silvinio	355.2	363.4	363.4	394.9	282.6	323.7	386.9	374.8	352.5
e1 KXA 9306	333.8	349.5	351.1	381.7	285.3	254.2	355.6	354.5	338.9
e1 KXA 9331	364.5	393.3	369.7	389.3	364.9	302.4	363.3	361.9	371.6
e1 ES Fortran	321.2	327.2	334.6	346.7	316.4	256.9	319.7	344.4	323.8
e1 EGZ 9202	329.5	314.0	330.7	366.4	294.7	297.0	350.1	363.4	319.9
e1 Laboom	327.9	345.5	332.2	348.2	296.7	243.1	379.8	365.1	312.6
<i>Moyenne</i>	322.3	322.7	336.0	349.8	312.4	247.1	341.7	342.8	326.0
<i>Témoins</i>	336.8	336.3	365.2	347.0	327.6	274.8	366.7	336.9	340.4
<i>PPDS (5 %)</i>	15.6	35.6	28.6	36.7	52.5	74.3	29.0	49.4	35.0
<i>PPDS (1 %)</i>	20.5	47.5	38.2	48.9	70.0	99.1	38.7	65.9	46.7
<i>C.V [%]</i>	8.5	6.7	5.2	6.4	10.2	18.3	5.2	8.8	6.5

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	270347.2	24	14.98***	1.55	0.0000
Lieu	563483.6	7	107.05***	2.03	0.0000
Interaction Lieu X variété	224925.8	168	1.78***	1.23	0.0000
Erreur	288760.7	384			
Total	1347517.3	583			

Teneur en parois cellulaires (NDF) (g/kg MS)

	<i>Moyenne</i>	Ellighausen	Delley	Eglisau	Goumoens	Grangeneuve	Liebegg	Koppigen	Reckenholz
STD Amadeo	369.1	330.1	378.1	349.0	384.7	380.7	364.8	422.2	343.6
STD LG 32.52	405.2	393.9	394.1	402.1	414.6	439.8	387.4	432.5	377.2
STD LG 32.20	* 380.7	362.8	371.9	372.7	410.8	407.3	373.6	405.1	341.1
STD NK Cassio	370.9	369.0	376.5	366.0	383.4	379.7	362.9	386.2	343.7
STD Ricardinio	* 371.0	347.1	373.1	373.3	402.6	396.3	347.5	391.1	337.2
T Coxximo	386.3	354.0	383.5	397.7	420.8	407.4	379.0	409.7	338.2
T Ronaldinio	381.5	348.8	391.2	363.6	389.4	401.9	383.1	426.3	347.3
T Ciclixx	391.5	367.2	398.1	381.5	412.5	449.8	364.7	418.5	339.5
T LG30.218	385.3	371.7	395.5	379.5	417.3	417.5	376.8	370.5	353.4
T NK Gitago	378.9	346.3	386.2	359.6	371.8	456.5	383.0	378.2	349.2
2 DSP 37247	388.0	382.9	362.1	363.3	417.1	406.2	370.0	414.4	388.0
e2 P8000	377.6	387.7	374.1	366.1	405.5	396.7	364.4	379.8	346.6
2 DSP 38264	394.2	379.0	397.6	370.9	430.2	458.5	379.2	393.5	345.0
e1 LG 30225	386.7	365.1	412.1	364.3	400.3	412.1	370.0	402.9	366.7
1 DSP38457B11	402.6	367.1	418.4	384.9	429.5	451.5	398.7	401.4	369.0
e1 Geoxx	397.9	403.0	392.3	397.1	418.7	439.4	369.0	407.9	355.6
e1 Ulrixx	396.1	362.0	425.7	364.8	407.1	478.6	367.3	394.4	368.5
e1 LZM 159/51	388.1	359.6	400.3	364.0	429.9	432.9	367.0	380.8	370.1
e1 Ordani CS	417.5	386.3	426.5	399.6	433.4	475.6	404.4	444.3	369.9
e1 Silvinio	379.3	359.0	384.4	352.7	438.5	398.0	360.6	376.9	364.3
e1 KXA 9306	377.2	355.3	362.8	353.2	427.3	411.4	365.8	401.4	340.7
e1 KXA 9331	359.2	333.0	366.3	356.1	355.8	395.6	352.8	376.9	337.2
e1 ES Fortran	386.0	372.8	383.1	373.7	397.1	432.0	384.9	390.3	353.9
e1 EGZ 9202	389.5	377.5	399.1	358.1	428.1	431.0	377.3	379.1	365.5
e1 Laboom	378.3	340.9	378.6	354.2	422.1	435.3	352.5	380.7	361.9
<i>Moyenne</i>	385.5	364.9	389.3	370.7	409.9	423.7	372.3	398.6	354.9
<i>Témoins</i>	375.8	354.9	372.5	373.0	406.7	401.8	360.5	398.1	339.1
<i>PPDS (5 %)</i>	13.2	29.6	37.3	32.8	38.5	55.4	32.5	42.0	30.6
<i>PPDS (1 %)</i>	17.4	39.5	49.7	43.8	51.4	74.0	43.3	56.0	40.8
<i>C.V [%]</i>	6.0	4.9	5.8	5.4	5.7	8.0	5.3	6.4	5.2

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	91141.4	24	7.03***	1.55	0.0000
Lieu	299487.1	7	79.17***	2.03	0.0000
Interaction Lieu X variété	116156.1	168	1.28*	1.23	0.0270
Erreur	207528.3	384			
Total	714312.9	583			

Teneur en énergie nette pour la lactation (NEL) (g/kg MS)

	<i>Moyenne</i>	Ellighausen	Delley	Eglisau	Goumoens	Grangeneuve	Liebegg	Koppigen	Reckenholz
STD Amadeo	6.5	6.8	6.6	6.5	6.4	6.4	6.5	6.3	6.6
STD LG 32.52	6.3	6.5	6.4	6.3	6.3	5.9	6.4	6.3	6.4
STD LG 32.20	* 6.6	6.8	6.8	6.6	6.6	6.3	6.5	6.5	6.8
STD NK Cassio	6.6	6.7	6.6	6.4	6.5	6.4	6.6	6.5	6.8
STD Ricardinio	* 6.6	6.9	6.8	6.7	6.6	6.1	6.7	6.6	6.7
T Coxximo	6.5	6.8	6.5	6.3	6.4	6.2	6.3	6.4	6.8
T Ronaldinio	6.6	6.9	6.6	6.6	6.6	6.2	6.5	6.4	6.7
T Ciclixx	6.5	6.7	6.6	6.5	6.5	5.9	6.6	6.5	6.8
T LG30.218	6.7	6.8	6.5	6.6	6.7	6.3	6.5	6.9	6.9
T NK Gitago	6.5	6.8	6.6	6.5	6.6	5.6	6.4	6.7	6.6
2 DSP 37247	6.6	6.7	6.8	6.7	6.4	6.3	6.9	6.5	6.5
e2 P8000	6.6	6.6	6.8	6.6	6.5	6.3	6.8	6.6	6.8
2 DSP 38264	6.5	6.7	6.6	6.6	6.3	5.9	6.5	6.6	6.8
e1 LG 30225	6.6	6.8	6.6	6.7	6.6	6.2	6.7	6.6	6.7
1 DSP38457B11	6.4	6.7	6.4	6.4	6.3	5.8	6.4	6.6	6.7
e1 Geoxx	6.5	6.5	6.7	6.4	6.5	6.0	6.7	6.3	6.7
e1 Ulrixx	6.5	6.9	6.4	6.6	6.5	5.7	6.6	6.4	6.6
e1 LZM 159/51	6.6	6.9	6.7	6.5	6.6	6.0	6.6	6.7	6.8
e1 Ordani CS	6.2	6.5	6.3	6.3	6.2	5.4	6.1	6.0	6.5
e1 Silvinio	6.4	6.7	6.5	6.6	6.1	6.3	6.3	6.4	6.5
e1 KXA 9306	6.5	6.8	6.6	6.7	6.2	6.1	6.6	6.4	6.6
e1 KXA 9331	6.7	7.2	6.9	6.8	6.7	6.3	6.6	6.5	6.8
e1 ES Fortran	6.5	6.9	6.5	6.5	6.5	5.9	6.5	6.5	6.7
e1 EGZ 9202	6.5	6.7	6.6	6.7	6.3	6.0	6.6	6.6	6.6
e1 Laboom	6.5	6.9	6.7	6.6	6.2	6.0	6.6	6.4	6.6
<i>Moyenne</i>	6.5	6.8	6.6	6.5	6.4	6.1	6.5	6.5	6.7
<i>Témoins</i>	6.6	6.8	6.8	6.6	6.6	6.2	6.6	6.6	6.8
<i>PPDS (5 %)</i>	0.1	0.3	0.3	0.3	0.4	0.5	0.2	0.4	0.2
<i>PPDS (1 %)</i>	0.2	0.4	0.5	0.3	0.5	0.7	0.3	0.5	0.3
<i>C.V [%]</i>	3.2	2.7	3.2	2.4	3.5	5.4	2.3	3.5	2.1

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	7.7	24	7.39***	1.55	0.0000
Lieu	23.8	7	78.04***	2.03	0.0000
Interaction Lieu X variété	8.8	168	1.20n.s	1.23	0.0786
Erreur	16.7	384			
Total	56.9	583			

Mais ensilage mi-tardif
série 21

Silomaïs mittelspät
Serie 21

Culture	Série	Np.	Lieu	Altitude	Date semis	Date récolte
SM	21	1260	Changins	430	27 avr. 10	-
SM	21	1376	Goumoëns / VD	622	19 mai 10	11 oct. 10
SM	21	1567	Delley / FR	514		
SM	21	1896	Vouvry / VS	404	22 avr. 10	30 sept. 10
SM	21	3425	Koppigen / BE	476	25 mai 10	6 oct. 10
SM	21	8046	Reckenholz / ZH	440	29 avr. 10	18 oct. 10
SM	21	8194	Eglisau / ZH	390	28 avr. 10	14 oct. 10
SM	21	8566	Ellighausen / TG	517	28 mai 10	22 oct. 10
SM	21	9443	Widnau / SG	406	26 mai 10	19 oct. 10

Mais ensilage mi-tardif
série 21

Silomais mittelspät
Serie 21

Nom	Synonyme	Type d'hybride	Obtenteur	Représentant	Inscrite en	KM	SM
Atendo Anjou 290	A 5240	SC	MAIS ANGEVIN / F	Hauenstein, Rafz	2005		SM21/S
PR39T45		SC	Pioneer / USA	Pioneer Manno	2009		SM21/S
Marcello	KXA 4163	TC	KWS / D	KWS, Basel	2007		SM21/S
Ronaldinio	KXA 4162	TC	KWS / D	KWS, Basel	2007		SM21/S
Ansyl	A 5425	TC	Limagrain / F	Hauenstein, Rafz	2007		SM21/S
NK Sigmund	NX 10126	SC	Syngenta / CH	Syngenta, Monthey	2010		SM21/S
Anjou 249	A 5134	SC	MAIS ANGEVIN / F	Hauenstein, Rafz	2004		SM21/T
DK 287	MCA 312	SC	Monsanto / USA	Monsanto, Morges	2004		SM21/T
Amadeo	KX 2030	SC	KWS / D	Semena, Basel	2006		SM11/T
Taxxa		SC	RAGT / F	Fenaco, Yverdon	2007		SM21/T
Ciclixx		SC	RAGT / F	Fenaco, Yverdon	2007		SM11/T
NK Cassio	NX 1074	SC	Syngenta/F	Syngenta, Dielsdorf	2008		SM11/T
NK Silotop	NX 17066	SC	Syngenta / CH	Syngenta, Dielsdorf	2010		SM21/T
Grosso	KXA 8151	SC	KWS / D	KWS, Basel		KM21/e2	SM21/e2
Santurio	KXA 8335	TC	KWS / D	KWS, Basel		KM21/e2	SM21/e2
Fadeo	Fadeo		AgaSaat	Schweizer, Thun		KM21/e2	SM21/e2
DSP 35330	DSP 35330		DSP / CH	DSP, Delley			SM21/2.
PR35F38	X4M873	SC	PIONEER / USA	Pioneer, Manno			SM21/e2
SY Quartz	NX14037	SC	Syngenta / CH	Syngenta, Monthey			SM21/e1
PR38Y34	X5S803	SC	Pioneer / USA	Pioneer Manno			SM21/e1
DSP38293	DSP38293		DSP / CH	DSP, Delley			SM21/1.
LG 30275	LZM 258/32	SC	Limagrain / Europe	Fenaco, Yverdon			SM21/e1
LZM 259/43	LZM 259/43	SC	Limagrain / Europe	Fenaco, Yverdon			SM21/e1
CSM 8369	CSM 8369	TC	Caussade semences	Juramentement			SM21/e1
SL Magello	SL2531	SC	Saatbau Linz	Hauenstein, Rafz			SM21/e1
KXA 9144	KXA 9144	SC	KWS / D	KWS, Basel		KM21/e1	SM21/e1
KXA 9148	KXA 9148	DC	KWS / D	KWS, Basel		KM21/e1	SM21/e1
KXA 9329	KXA 9329	SC	KWS / D	KWS, Basel		KM21/e1	SM21/e1
KXA 9354	KXA 9354	SC	KWS / D	KWS, Basel		KM21/e1	SM21/e1
KXA 9361	KXA 9361	SC	KWS / D	KWS, Basel		KM21/e1	SM21/e1

Calcul de l'indice série 21

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			MOD	Rendement	Précocité (teneur MS)	Vigueur au départ	Verse végétation	Verse récolte	Plantes cassées à la récolte	Charbon	Indice Economique	Indice agronomique	Indice Global
			0.4	0.5	1.25	0.5	0.25	0.75	0.75	0.25			
KXA 9329	KXA 9329	e1	-0.1	6.6	-2.2	0.2	2.2			0.1	6.5	0.2	6.7
NK Cassio	NX 1074	T	0.7	-1.2	3.6	0.1	-0.3			-0.1	-0.6	3.3	2.7
KXA 9144	KXA 9144	e1	-8.6	11.8	-0.5	0.2	-1.4			0.0	3.2	-1.8	1.5
KXA 9354	KXA 9354	e1	-2.7	3.4	-1.2	-0.4	2.2			0.0	0.7	0.6	1.2
Grosso	KXA 8151	e2	-4.0	7.6	-2.8	0.1	-0.2			-0.1	3.6	-3.0	0.6
KXA 9361	KXA 9361	e1	-2.8	9.3	-5.2	-0.2	-1.2			0.1	6.6	-6.5	0.1
PR39T45	PR39T45	* STD	0.4	-0.5	-0.5	-0.2	0.9			-0.1	-0.1	0.2	0.1
Ronaldinio	KXA 4162	* STD	-0.4	0.5	0.5	0.2	-0.9			0.1	0.1	-0.2	-0.1
KXA 9148	KXA 9148	e1	-3.5	5.0	-0.9	0.0	-1.1			0.1	1.5	-1.9	-0.5
DSP 35330	DSP 35330	2	-1.5	3.7	-2.4	0.3	-1.6			0.0	2.2	-3.6	-1.5
LG 30275	LZM 258/32	e1	-4.7	5.5	-2.0	-0.2	0.1			-0.3	0.9	-2.4	-1.5
LZM 259/43	LZM 259/43	e1	-3.6	1.8	-0.6	0.2	-0.8			-0.1	-1.8	-1.3	-3.1
PR38Y34	X5S803	e1	-5.7	7.7	-4.0	-0.4	-1.3			0.1	2.1	-5.6	-3.5
NK silotop	NK 17066	T	-1.6	1.0	-2.0	0.0	-1.0			0.0	-0.5	-3.0	-3.5
DSP38293	DSP38293	1	-3.7	2.1	-2.1	0.2	-0.1			0.0	-1.6	-2.1	-3.7
DK 287	MCA 312	T	-2.5	2.0	-2.2	-0.2	-1.5			0.0	-0.5	-4.0	-4.5
Atendo Anjou 290	A 5240	STD	-9.1	9.1	-3.9	0.3	-0.8			-0.5	0.0	-5.0	-5.0
Marcello	KXA 4163	STD	-4.4	2.1	-2.3	0.0	-0.5			0.0	-2.3	-2.7	-5.0
Ansyl	A 5425	STD	-5.9	1.0	-1.3	0.0	0.7			0.1	-4.9	-0.5	-5.5
Santurio	KXA 8335	e2	-4.2	-0.3	-0.9	0.3	-0.6			0.0	-4.5	-1.1	-5.6
PR35F38	X4M873	e2	-1.3	4.3	-9.6	-0.8	1.4			0.1	3.0	-8.9	-6.0
NK Sigmund	NX 10126	STD	-5.9	0.0	0.4	0.2	-1.2			-0.1	-5.9	-0.7	-6.6
Fadeo	Fadeo	e2	-5.2	1.3	-2.6	0.1	-0.2			-0.1	-3.9	-2.9	-6.8
CSM 8369	CSM 8369	e1	-6.3	1.4	-1.5	-0.3	-0.4			0.0	-5.0	-2.1	-7.0
Amadeo	KX 2030	T	-3.4	-7.7	3.6	0.2	0.2			0.0	-11.1	4.0	-7.1
Ciclixx	Ciclixx	T	-4.7	-1.7	-0.5	-0.1	-0.6			0.1	-6.3	-1.1	-7.5
Taxxa	Taxxa	T	-9.2	2.7	-0.3	-0.1	-1.2			0.1	-6.5	-1.5	-8.0
Anjou 249	A 5134	T	-8.2	0.2	-2.0	0.0	0.0			-0.1	-8.0	-2.1	-10.1
SL Magello	SL2531	e1	-13.1	3.1	-0.6	0.1	-1.7			0.0	-10.0	-2.3	-12.3
SY Quartz	NX14037	e1	-4.2	-5.6	-0.9	0.0	-2.3			0.1	-9.8	-3.1	-12.9
	Pondération		0.4	0.5	1.25	0.5	0.25	0.75	0.75	0.25			
	Nb de lieux		8	8	8	8	4	0	0	2			

Résumé des observations

série 21

	Teneur MS	Rendement net à 0 % H2O	Rendement val. Rel.	Vigueur au départ	Verse en végétation	Helmintho-sporiose	Charbon	Hauteur des plantes	Hauteur de l'épi	Hauteur relative de l'épi	nb de jour du semis à 50% de floraison femelle	densité des plantes à la récolte (pl/m2)
	%	(dt/ha)	(%)	(note)	(%)	(note)	(%)	(cm)	(cm)	(%)		
STD Atendo Anjou 290	32.4	219.9	109.0	2.0	29.1	1.5	9.3	270.0	120.0	44.4	85.7	9.2
STD PR39T45 *	35.1	200.7	99.5	3.0	14.8	2.1	1.7	256.7	110.0	42.9	86.3	8.7
STD Marcello	33.8	205.9	102.1	2.7	26.3	2.5	0.7	250.0	120.0	48.0	85.0	9.0
STD Ronaldinio *	36.0	202.6	100.5	2.3	29.9	2.3	0.0	240.0	110.0	45.9	85.0	8.9
STD Ansyl	34.5	203.6	101.1	2.7	16.4	2.9	0.0	256.7	118.3	46.1	85.3	8.7
STD NK Sigmund	35.9	201.6	99.9	2.3	32.1	2.5	1.8	260.0	123.3	47.4	86.0	8.8
T Anjou 249	34.0	202.0	100.2	2.8	22.2	2.3	2.2	265.0	116.7	44.0	85.0	8.6
T DK 287	33.8	205.7	101.8	3.2	34.3	2.9	1.1	256.7	118.3	46.2	87.0	8.8
T Amadeo	38.4	186.2	92.4	2.3	20.5	3.6	0.7	246.7	110.0	44.6	82.0	8.8
T Taxxa	35.3	207.0	102.4	2.9	31.8	2.8	0.0	286.7	130.0	45.4	85.7	8.9
T Ciclixx	35.2	198.3	98.5	2.8	27.4	2.5	0.0	266.7	110.0	41.2	86.0	8.8
T NK Cassio	38.5	199.2	98.7	2.6	24.6	2.3	2.3	246.7	110.0	44.6	83.7	8.9
T NK silotop	33.9	203.7	100.9	2.7	30.2	2.2	0.6	253.3	123.3	48.7	86.3	9.1
e2 Grosso	33.3	216.9	107.4	2.5	24.0	1.9	2.7	266.7	126.7	47.5	85.3	8.9
e2 Santurio	34.8	201.0	99.9	2.1	26.8	3.1	0.4	246.7	115.0	46.6	84.7	8.6
e2 Fadeo	33.4	204.2	101.1	2.6	23.7	2.3	2.6	256.7	116.7	45.5	85.3	8.7
2 DSP 35330	33.7	209.1	103.8	2.2	34.8	2.5	0.3	266.7	113.3	42.5	86.7	8.8
e2 PR35F38	27.9	210.3	104.0	4.4	11.1	1.3	0.0	270.0	130.0	48.1	94.0	8.5
e1 SY Quartz	34.9	190.5	94.7	2.7	41.0	2.1	0.0	253.3	106.7	42.1	84.7	8.7
e1 PR38Y34	32.4	217.1	107.4	3.4	32.5	1.5	0.0	263.3	113.3	43.0	87.7	8.7
1 DSP38293	33.8	205.8	102.0	2.3	23.5	2.1	0.7	268.3	120.0	44.7	87.0	8.6
e1 LG 30275	34.0	212.7	105.2	3.0	21.6	2.4	5.9	263.3	116.7	44.3	87.7	8.8
e1 LZM 259/43	35.1	205.3	101.6	2.3	28.5	2.1	2.6	256.7	123.3	48.1	85.7	8.8
e1 CSM 8369	34.4	204.4	101.3	3.2	25.2	2.9	0.4	263.3	126.7	48.1	85.7	8.6
e1 SL Magello	35.1	207.9	102.6	2.5	36.1	3.4	1.4	273.3	130.0	47.5	85.0	8.7
e1 KXA 9144	35.1	225.3	111.8	2.3	33.9	2.6	1.0	283.3	136.7	48.2	85.7	8.8
e1 KXA 9148	34.8	211.6	104.8	2.6	31.2	2.1	0.0	260.0	123.3	47.4	85.3	9.0
e1 KXA 9329	33.8	214.9	106.2	2.4	5.1	1.3	0.0	266.7	133.3	50.0	84.3	8.7
e1 KXA 9354	34.6	208.5	103.1	3.5	4.9	1.9	0.9	265.0	126.7	47.8	87.3	9.0
e1 KXA 9361	31.4	220.3	109.2	3.1	31.8	1.7	0.0	260.0	121.7	46.8	91.0	9.0
Moyenne	34.3	206.7	102.4	2.7	25.8	2.3	1.3	261.3	120.0	45.9	86.1	8.8
Témoins	35.6	201.6	100.0	2.7	22.4	2.2	0.8	248.3	110.0	44.4	85.7	8.8
PPDS (5 %)	0.8	7.5		0.3	11.7	0.6	2.5	12.8	9.9	3.3	1.8	0.3
PPDS (1 %)	1.0	9.9		0.5	15.48	0.8	3.3	17.1	13.2	4.4	2.4	0.4
C.V [%]	3.9	6.4		22.4	56.5	38.4	166.3	3.0	5.0	4.5	1.3	5.4
Nb de lieux	8	8		8	4	5	2	1	1	1	1	8

Résumé des observations (2)

série 21

		Teneur en matière organique digestible (MOD) (g/kg MS)	Teneur en cellulose brute (g/kg MS)	Matière azotée _____ (g/kg MS)	Teneur en amidon _____ (g/kg MS)	Teneur en parois cellulaires (NDF) (g/kg MS)	Energie nette pour la lactation _____ (MJ/kg MS)
STD	Atendo Anjou 290	701.1	164.3	68.2	290.5	393.9	6.4
STD	PR39T45	724.8	155.5	65.1	348.8	365.3	6.6
STD	Marcello	712.7	158.5	68.2	333.9	375.5	6.5
STD	Ronaldinio	722.9	151.7	69.5	344.2	365.3	6.6
STD	Ansyl	709.0	156.8	73.0	302.5	384.1	6.4
STD	NK Sigmund	709.1	162.5	68.2	304.7	384.8	6.4
T	Anjou 249	703.4	152.8	68.0	301.3	376.9	6.4
T	DK 287	717.6	160.4	66.3	328.0	383.2	6.5
T	Amadeo	715.3	150.2	68.9	347.4	361.4	6.5
T	Taxxa	700.8	162.2	65.2	296.7	405.5	6.3
T	Ciclixx	712.2	153.6	68.4	306.6	381.8	6.5
T	NK Cassio	725.5	151.1	69.9	357.6	365.8	6.6
T	NK silotop	719.9	160.9	68.0	328.2	384.8	6.6
e2	Grosso	713.8	162.8	65.4	339.6	374.8	6.5
e2	Santurio	713.5	157.0	66.2	307.1	380.9	6.5
e2	Fadeo	710.9	154.1	71.3	327.2	374.7	6.5
2	DSP 35330	720.0	158.0	63.9	328.6	380.2	6.6
e2	PR35F38	720.5	172.8	69.5	278.0	389.9	6.6
e1	SY Quartz	713.3	161.3	72.5	332.6	369.5	6.5
e1	PR38Y34	709.7	167.7	68.6	296.9	390.5	6.4
1	DSP38293	714.6	163.4	65.3	327.2	381.8	6.5
e1	LG 30275	712.1	158.5	72.4	289.4	386.4	6.5
e1	LZM 259/43	714.9	160.5	67.9	288.8	387.1	6.5
e1	CSM 8369	708.0	162.9	71.1	328.9	386.3	6.4
e1	SL Magello	691.0	162.6	69.9	311.4	395.1	6.2
e1	KXA 9144	702.3	154.7	66.3	322.6	383.8	6.4
e1	KXA 9148	715.1	157.6	68.1	337.5	374.7	6.5
e1	KXA 9329	723.6	157.7	67.9	343.0	370.3	6.6
e1	KXA 9354	717.0	169.9	63.4	331.8	381.6	6.5
e1	KXA 9361	716.9	165.1	67.4	307.9	380.6	6.5
	Moyenne	713.0	159.6	68.1	319.6	380.6	6.5
	Témoins	723.8	153.6	67.3	346.5	365.3	6.6
	PPDS (5 %)	11.1	6.8	1.8	19.7	12.9	0.1
	PPDS (1 %)	14.6	9.0	2.4	25.9	17.0	0.2
	C.V [%]	2.7	7.5	4.7	10.9	6.0	3.4
	Nb de lieux	8	8	8	8	8	8

Précocité / Reife

		<i>Moyenne</i>	Ellighausen	Delley	Eglisau	Goumoens	Vouvry	Widnau	Koppigen	Reckenholz
STD	Atendo Anjou 290	32.4	29.4	30.9	37.1	34.7	28.1	31.3	31.5	36.2
STD	PR39T45	35.1	31.3	34.0	40.3	38.2	35.8	30.3	30.8	40.2
STD	Marcello	33.8	30.4	33.8	39.8	35.7	29.7	32.2	30.3	38.1
STD	Ronaldinio	36.0	33.1	36.7	40.8	36.3	34.6	33.4	33.0	40.0
STD	Ansyl	34.5	32.5	34.6	39.2	35.4	34.1	32.0	31.1	36.9
STD	NK Sigmund	35.9	33.4	33.6	43.1	36.4	34.1	33.3	32.5	40.5
T	Anjou 249	34.0	31.0	32.6	39.6	35.0	31.4	31.7	32.4	38.1
T	DK 287	33.8	31.1	32.2	39.6	32.0	30.5	32.6	33.4	38.8
T	Amadeo	38.4	36.8	37.5	44.7	37.2	37.1	35.5	36.7	41.9
T	Taxxoa	35.3	32.1	34.6	41.5	35.1	31.3	34.0	33.4	40.7
T	Ciclixx	35.2	31.7	34.2	40.2	35.2	31.7	34.9	33.5	40.0
T	NK Cassio	38.5	35.0	37.2	46.0	39.9	37.5	35.7	34.1	42.4
T	NK silotop	33.9	30.8	33.1	40.6	35.7	29.9	32.8	28.8	39.8
e2	Grosso	33.3	32.0	32.3	39.2	34.9	30.2	32.8	28.6	36.3
e2	Santurio	34.8	31.9	36.8	39.6	35.7	32.2	33.0	31.5	38.1
e2	Fadeo	33.4	32.3	33.5	39.2	32.9	31.2	31.8	29.7	37.0
2	DSP 35330	33.7	30.3	33.1	40.2	34.7	31.5	31.9	29.6	38.1
e2	PR35F38	27.9	25.9	26.1	31.7	29.9	25.1	27.2	27.4	30.1
e1	SY Quartz	34.9	33.1	34.7	42.4	36.1	31.2	32.9	32.6	35.9
e1	PR38Y34	32.4	28.7	31.1	38.6	34.6	30.8	30.5	27.6	37.0
1	DSP38293	33.8	31.1	33.8	40.4	33.7	32.3	32.1	29.0	38.4
e1	LG 30275	34.0	32.2	32.3	38.0	36.3	31.1	34.0	31.5	36.5
e1	LZM 259/43	35.1	34.9	33.7	41.5	38.4	29.0	33.6	30.1	39.6
e1	CSM 8369	34.4	32.6	34.3	38.8	36.7	31.6	31.6	32.1	37.5
e1	SL Magello	35.1	32.4	34.6	40.8	36.7	30.5	35.1	31.2	39.0
e1	KXA 9144	35.1	34.3	34.9	40.2	37.6	30.6	33.3	32.0	38.1
e1	KXA 9148	34.8	33.0	33.7	41.4	35.7	32.9	32.5	30.3	39.0
e1	KXA 9329	33.8	30.9	33.8	40.4	35.6	30.8	31.5	29.4	38.1
e1	KXA 9354	34.6	32.6	34.5	41.4	33.9	34.2	34.3	28.2	37.5
e1	KXA 9361	31.4	29.6	29.2	36.3	32.9	29.0	31.9	28.0	34.5
	<i>Moyenne</i>	34.3	31.9	33.6	40.1	35.4	31.7	32.7	31.0	38.1
	<i>Témoins</i>	35.6	32.2	35.3	40.6	37.2	35.2	31.9	31.9	40.1
	<i>PPDS (5 %)</i>	0.8	1.5	1.5	1.4	2.8	2.7	2.1	2.0	2.9
	<i>PPDS (1 %)</i>	1.0	2.0	2.0	1.9	3.7	3.6	2.7	2.6	3.9
	<i>C.V [%]</i>	3.9	2.9	2.8	2.1	4.9	5.2	3.8	3.9	4.6

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	2524.5	29	48.67***	1.49	0.0000
Lieu	6878.2	7	549.33***	2.03	0.0000
Interaction Lieu X variété	936.1	203	2.58***	1.21	0.0000
Erreur	830.0	464			
Total	11168.8	703			

Rendement / Ertrag

		<i>Moyenne</i>	Ellighausen	Delley	Eglisau	Goumoens	Vouvry	Widnau	Koppigen	Reckenholz
STD	Atendo Anjou 290	219.9	215.6	179.2	252.0	210.9	227.5	230.4	194.2	249.0
STD	PR39T45	200.7	209.6	167.3	218.2	184.7	192.8	218.7	174.6	239.6
STD	Marcello	205.9	203.9	163.4	235.0	192.6	196.3	235.8	188.1	232.3
STD	Ronaldinio	202.6	197.4	165.4	228.7	186.5	223.5	197.7	188.8	232.9
STD	Ansyl	203.6	199.4	171.6	224.8	182.0	213.3	223.1	186.5	228.4
STD	NK Sigmund	201.6	201.7	169.8	226.3	171.1	216.4	226.7	172.5	228.0
T	Anjou 249	202.0	197.3	175.1	239.6	183.6	199.8	207.8	178.8	233.7
T	DK 287	205.7	206.8	168.3	246.8	179.4	197.7	211.5	190.7	244.1
T	Amadeo	186.2	191.8	157.5	195.1	169.5	205.7	188.3	163.0	218.8
T	Taxxoa	207.0	201.0	175.2	238.3	174.9	212.3	214.9	179.0	260.3
T	Ciclixx	198.3	195.0	166.2	214.6	181.9	208.2	217.5	180.4	222.4
T	NK Cassio	199.2	196.0	166.8	220.7	176.6	217.2	210.1	171.0	234.8
T	NK silotop	203.7	197.2	172.2	233.6	183.6	218.8	216.0	172.3	236.2
e2	Grosso	216.9	219.4	178.4	246.7	192.0	216.7	227.2	192.9	261.8
e2	Santurio	201.0	206.4	171.5	221.4	180.4	204.0	219.6	183.7	221.2
e2	Fadeo	204.2	207.4	164.4	234.0	181.3	212.7	222.2	179.9	231.4
2	DSP 35330	209.1	209.7	173.8	233.5	193.4	223.8	226.9	187.6	223.8
e2	PR35F38	210.3	196.3	165.9	252.5	194.9	195.2	222.0	192.8	262.6
e1	SY Quartz	190.5	193.6	162.8	211.2	176.1	205.6	201.2	173.1	200.5
e1	PR38Y34	217.1	216.8	175.3	245.5	197.7	219.3	226.9	188.9	266.4
1	DSP38293	205.8	218.6	167.7	231.8	185.6	209.4	202.2	190.9	239.9
e1	LG 30275	212.7	200.8	178.0	253.9	194.7	217.6	216.7	177.0	263.2
e1	LZM 259/43	205.3	204.2	170.3	242.0	182.6	204.2	208.3	179.6	251.1
e1	CSM 8369	204.4	208.3	160.9	224.0	193.3	208.4	216.1	184.8	239.1
e1	SL Magello	207.9	208.9	167.0	240.1	181.3	217.6	221.5	165.7	261.0
e1	KXA 9144	225.3	226.6	173.2	247.9	224.1	222.5	235.8	215.5	257.2
e1	KXA 9148	211.6	204.9	161.1	237.3	208.3	215.9	216.2	194.7	254.0
e1	KXA 9329	214.9	217.6	181.4	245.4	177.4	209.4	234.3	179.5	273.9
e1	KXA 9354	208.5	196.8	171.0	242.5	179.3	202.9	208.4	197.0	269.7
e1	KXA 9361	220.3	209.2	173.7	266.6	210.1	211.8	226.3	208.4	256.4
	<i>Moyenne</i>	206.7	205.3	169.8	235.0	187.7	210.9	217.7	184.4	243.1
	<i>Témoins</i>	201.6	203.5	166.4	223.4	185.6	208.1	208.2	181.7	236.3
	<i>PPDS (5 %)</i>	7.5	18.8	12.2	19.5	18.9	24.0	25.4	17.9	31.4
	<i>PPDS (1 %)</i>	9.9	25.1	16.3	25.9	25.2	32.0	33.8	23.8	41.7
	<i>C.V [%]</i>	6.4	5.6	4.4	5.1	6.2	7.0	7.1	5.9	7.9

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	49086.6	29	9.59***	1.49	0.0000
Lieu	403808.8	7	326.94***	2.03	0.0000
Interaction Lieu X variété	51819.2	203	1.45***	1.21	0.0007
Erreur	81871.1	464			
Total	586585.7	703			

Rendement relatif / Relativer Ertrag

	<i>Moyenne</i>	Ellighausen	Delley	Eglisau	Goumoens	Vouvry	Widnau	Koppigen	Reckenholz
STD Atendo Anjou 290	109.0	105.9	107.7	112.8	113.6	109.3	110.7	106.9	105.4
STD PR39T45 *	99.5	103.0	100.6	97.7	99.5	92.6	105.0	96.1	101.4
STD Marcello	102.1	100.2	98.2	105.2	103.8	94.3	113.3	103.5	98.3
STD Ronaldinio *	100.5	97.0	99.4	102.3	100.5	107.4	95.0	103.9	98.6
STD Ansyl	101.1	98.0	103.2	100.6	98.1	102.5	107.2	102.6	96.7
STD NK Sigmund	99.9	99.1	102.1	101.3	92.2	104.0	108.9	94.9	96.5
T Anjou 249	100.2	96.9	105.3	107.3	98.9	96.0	99.8	98.4	98.9
T DK 287	101.8	101.6	101.2	110.5	96.6	95.0	101.6	105.0	103.3
T Amadeo	92.4	94.2	94.7	87.3	91.3	98.9	90.4	89.7	92.6
T Taxxo	102.4	98.8	105.3	106.7	94.2	102.0	103.2	98.5	110.2
T Ciclix	98.5	95.8	99.9	96.0	98.0	100.0	104.5	99.3	94.2
T NK Cassio	98.7	96.3	100.3	98.8	95.2	104.4	100.9	94.1	99.4
T NK silotop	100.9	96.9	103.5	104.6	98.9	105.1	103.8	94.8	100.0
e2 Grosso	107.4	107.8	107.2	110.4	103.4	104.1	109.1	106.2	110.8
e2 Santurio	99.9	101.4	103.1	99.1	97.2	98.0	105.5	101.1	93.6
e2 Fadeo	101.1	101.9	98.8	104.7	97.6	102.2	106.7	99.0	97.9
2 DSP 35330	103.8	103.1	104.5	104.5	104.2	107.5	109.0	103.2	94.7
e2 PR35F38	104.0	96.5	99.7	113.0	105.0	93.8	106.6	106.1	111.2
e1 SY Quartz	94.7	95.1	97.9	94.5	94.9	98.8	96.7	95.3	84.9
e1 PR38Y34	107.4	106.5	105.4	109.9	106.5	105.4	109.0	103.9	112.8
1 DSP38293	102.0	107.4	100.8	103.8	100.0	100.6	97.1	105.1	101.5
e1 LG 30275	105.2	98.7	107.0	113.6	104.9	104.5	104.1	97.4	111.4
e1 LZM 259/43	101.6	100.3	102.4	108.3	98.4	98.1	100.1	98.8	106.3
e1 CSM 8369	101.3	102.4	96.7	100.3	104.1	100.1	103.8	101.7	101.2
e1 SL Magello	102.6	102.6	100.4	107.5	97.7	104.6	106.4	91.2	110.5
e1 KXA 9144	111.8	111.3	104.1	110.9	120.7	106.9	113.3	118.6	108.9
e1 KXA 9148	104.8	100.7	96.8	106.2	112.2	103.7	103.9	107.2	107.5
e1 KXA 9329	106.2	106.9	109.0	109.8	95.6	100.6	112.6	98.8	115.9
e1 KXA 9354	103.1	96.7	102.8	108.5	96.6	97.5	100.1	108.4	114.2
e1 KXA 9361	109.2	102.8	104.4	119.3	113.2	101.8	108.7	114.7	108.5
Moyenne	102.4	100.9	102.1	105.2	101.1	101.3	104.6	101.5	102.9
Témoins	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Vigueur au départ / Jugendentwicklung

		<i>Moyenne</i>	Ellighausen	Delley	Eglisau	Goumoens	Vouvry	Widnau	Koppigen	Reckenholz
STD	Atendo Anjou 290	2.0	2.3	2.7	2.7	1.3	1.3	2.0	1.3	2.3
STD	PR39T45	* 3.0	3.0	3.7	3.3	3.3	2.0	3.3	2.0	3.7
STD	Marcello	2.7	2.7	3.7	3.0	2.3	2.3	2.7	2.0	2.7
STD	Ronaldinio	* 2.3	3.0	3.7	2.7	2.0	1.0	3.0	1.0	2.3
STD	Ansyl	2.7	3.0	3.0	3.3	2.3	2.3	2.7	1.7	3.0
STD	NK Sigmund	2.3	2.7	3.3	2.3	2.0	1.3	2.3	1.3	2.7
T	Anjou 249	2.8	3.3	3.7	3.0	2.3	2.3	2.7	1.3	3.3
T	DK 287	3.2	3.7	3.3	3.3	2.3	3.7	3.3	2.3	3.3
T	Amadeo	2.3	2.3	3.3	2.7	1.7	2.3	3.0	1.3	2.0
T	Taxxo	2.9	3.3	3.3	3.7	2.7	2.7	2.7	1.7	3.0
T	Ciclixx	2.8	3.7	3.0	3.7	2.3	2.3	2.7	1.7	3.3
T	NK Cassio	2.6	3.3	3.0	3.0	2.3	1.3	2.7	2.3	2.7
T	NK silotop	2.7	3.3	3.0	3.3	2.7	2.3	2.7	2.0	2.3
e2	Grosso	2.5	2.7	4.0	3.0	1.7	2.0	3.0	1.7	1.7
e2	Santurio	2.1	3.0	3.0	2.0	1.0	1.7	2.0	1.3	2.7
e2	Fadeo	2.6	2.3	4.0	2.3	2.3	2.0	3.0	1.7	3.0
2	DSP 35330	2.2	2.7	2.7	2.3	2.0	1.3	1.7	1.7	3.0
e2	PR35F38	4.4	5.0	5.7	5.7	4.0	3.7	3.0	3.0	5.0
e1	SY Quartz	2.7	2.0	3.3	3.7	2.0	2.0	3.3	2.0	3.0
e1	PR38Y34	3.4	3.7	4.3	3.3	4.0	2.3	3.3	2.3	4.0
1	DSP38293	2.3	2.3	2.3	3.3	2.3	1.3	2.7	1.0	2.7
e1	LG 30275	3.0	3.7	3.0	4.7	2.7	1.7	2.3	2.3	3.7
e1	LZM 259/43	2.3	2.7	3.3	2.7	2.7	1.3	2.0	1.3	2.7
e1	CSM 8369	3.2	3.7	5.7	3.3	2.3	2.7	3.7	2.0	2.3
e1	SL Magello	2.5	3.3	3.0	3.0	2.7	2.0	2.7	1.3	2.3
e1	KXA 9144	2.3	2.7	3.0	2.3	1.7	1.7	3.0	1.3	2.3
e1	KXA 9148	2.6	3.0	4.3	2.3	2.3	2.3	2.7	1.3	2.7
e1	KXA 9329	2.4	3.0	3.3	2.7	2.0	1.7	3.3	1.7	1.3
e1	KXA 9354	3.5	4.0	4.7	3.0	3.7	3.7	3.0	1.7	4.0
e1	KXA 9361	3.1	3.0	4.0	4.0	3.0	2.7	3.0	2.0	3.0
	<i>Moyenne</i>	2.7	3.1	3.5	3.1	2.4	2.1	2.8	1.7	2.9
	<i>Témoins</i>	2.7	3.0	3.7	3.0	2.7	1.5	3.2	1.5	3.0
	<i>PPDS (5 %)</i>	0.3	0.8	1.0	1.1	0.8	0.9	1.3	1.0	1.0
	<i>PPDS (1 %)</i>	0.5	1.1	1.3	1.4	1.0	1.2	1.7	1.4	1.3
	<i>C.V [%]</i>	22.4	16.1	17.5	21.1	19.6	26.2	28.4	36.1	20.5

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	172.0	29	16.14***	1.49	0.0000
Lieu	221.5	7	86.08***	2.03	0.0000
Interaction Lieu X variété	132.3	203	1.77***	1.21	0.0000
Erreur	170.5	464			
Total	696.3	703			

Verse en végétation / Lagerung während Vegetation

		<i>Moyenne</i>	Delley	Eglisau	Widnau	Reckenholz
STD	Atendo Anjou 290	29.1	3.7	4.2	8.6	100.0
STD	PR39T45	* 14.8	0.0	3.4	13.5	42.4
STD	Marcello	26.3	0.0	0.6	9.3	95.2
STD	Ronaldinio	* 29.9	0.0	2.7	19.4	97.5
STD	Ansyl	16.4	0.0	0.7	24.9	39.9
STD	NK Sigmund	32.1	4.8	6.1	25.6	91.9
T	Anjou 249	22.2	1.2	0.0	16.4	71.0
T	DK 287	34.3	6.2	4.8	32.4	93.9
T	Amadeo	20.5	0.0	0.0	14.9	67.1
T	Taxxo	31.8	0.0	0.6	35.1	91.7
T	Ciclixx	27.4	1.2	9.0	28.3	71.3
T	NK Cassio	24.6	0.0	0.0	7.0	91.2
T	NK silotop	30.2	0.0	1.8	20.7	98.1
e2	Grosso	24.0	0.0	0.0	4.2	91.6
e2	Santurio	26.8	0.0	4.6	37.3	65.3
e2	Fadeo	23.7	2.3	0.6	18.5	73.2
2	DSP 35330	34.8	0.0	16.5	34.3	88.4
e2	PR35F38	11.1	1.2	2.7	16.3	24.0
e1	SY Quartz	41.0	7.5	26.6	31.4	98.7
e1	PR38Y34	32.5	1.2	2.6	33.6	92.6
1	DSP38293	23.5	0.0	19.7	12.4	62.0
e1	LG 30275	21.6	0.0	0.0	36.9	49.6
e1	LZM 259/43	28.5	0.0	0.6	21.5	91.9
e1	CSM 8369	25.2	1.2	0.6	8.7	90.2
e1	SL Magello	36.1	2.5	20.4	28.2	93.5
e1	KXA 9144	33.9	2.3	8.2	27.1	97.8
e1	KXA 9148	31.2	2.3	2.5	33.3	86.7
e1	KXA 9329	5.1	1.2	1.8	9.4	8.2
e1	KXA 9354	4.9	0.0	0.0	6.5	13.1
e1	KXA 9361	31.8	1.2	3.5	28.1	94.7
	<i>Moyenne</i>	25.8	1.3	4.8	21.5	75.8
	<i>Témoins</i>	22.4	0.0	3.1	16.5	69.9
	<i>PPDS (5 %)</i>	11.7	4.2	16.2	28.9	34.1
	<i>PPDS (1 %)</i>	15.5	5.6	21.6	38.4	45.3
	<i>C.V [%]</i>	56.5	194.3	205.7	82.4	27.5

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	26004.8	29	4.21***	1.52	0.0000
Lieu	319775.5	3	500.35***	2.64	0.0000
Interaction Lieu X variété	49908.3	87	2.69***	1.33	0.0000
Erreur	49423.9	232			
Total	445112.5	351			

Helminthosporium (note)

		<i>Moyenne</i>	Eglisau	Vouvry	Widnau	Koppigen	Reckenholz	
STD	Atendo Anjou 290	1.5	1.0	1.0	1.0	3.3	1.3	
STD	PR39T45	*	2.1	1.3	3.0	1.3	3.7	1.0
STD	Marcello	2.5	1.7	4.3	2.0	2.0	2.0	2.3
STD	Ronaldinio	*	2.3	1.7	2.0	2.0	3.7	2.0
STD	Ansyl	2.9	3.0	3.3	2.0	3.7	2.3	2.3
STD	NK Sigmund	2.5	2.0	3.0	1.3	4.0	2.0	2.0
T	Anjou 249	2.3	1.3	2.7	1.7	4.3	1.7	1.7
T	DK 287	2.9	2.3	3.3	2.0	4.0	3.0	3.0
T	Amadeo	3.6	2.0	5.0	2.0	6.3	2.7	2.7
T	Taxxa	2.8	2.3	2.0	2.3	4.3	3.0	3.0
T	Ciclixx	2.5	2.7	2.0	2.0	4.0	2.0	2.0
T	NK Cassio	2.3	2.0	2.0	2.0	3.7	2.0	2.0
T	NK silotop	2.2	1.7	2.3	1.7	3.0	2.3	2.3
e2	Grosso	1.9	1.3	1.0	1.7	3.7	1.7	1.7
e2	Santurio	3.1	2.0	5.3	2.3	4.3	1.7	1.7
e2	Fadeo	2.3	1.7	2.3	1.7	4.0	2.0	2.0
2	DSP 35330	2.5	2.7	1.0	2.3	3.7	2.7	2.7
e2	PR35F38	1.3	1.0	1.0	1.3	2.0	1.0	1.0
e1	SY Quartz	2.1	2.0	2.0	1.3	3.7	1.7	1.7
e1	PR38Y34	1.5	1.7	1.0	1.7	2.3	1.0	1.0
1	DSP38293	2.1	1.3	3.7	1.3	2.7	1.7	1.7
e1	LG 30275	2.4	1.7	3.0	1.7	4.0	1.7	1.7
e1	LZM 259/43	2.1	2.7	2.3	1.7	2.3	1.7	1.7
e1	CSM 8369	2.9	2.0	4.7	1.7	4.0	2.0	2.0
e1	SL Magello	3.4	1.7	4.7	2.7	5.0	3.0	3.0
e1	KXA 9144	2.6	1.3	4.7	1.7	3.7	1.7	1.7
e1	KXA 9148	2.1	2.7	1.0	1.7	3.0	2.3	2.3
e1	KXA 9329	1.3	1.0	1.0	1.3	2.0	1.3	1.3
e1	KXA 9354	1.9	1.7	3.0	1.3	2.3	1.3	1.3
e1	KXA 9361	1.7	1.7	1.0	1.7	2.3	1.7	1.7
	<i>Moyenne</i>	2.3	1.8	2.6	1.7	3.5	1.9	1.9
	<i>Témoins</i>	2.2	1.5	2.5	1.7	3.7	1.5	1.5
	<i>PPDS (5 %)</i>	0.6	0.9	2.6	0.8	1.1	1.1	1.1
	<i>PPDS (1 %)</i>	0.8	1.2	3.5	1.1	1.4	1.4	1.4
	<i>C.V [%]</i>	38.4	30.4	60.9	29.7	18.5	34.3	34.3

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	137.8	29	5.97***	1.51	0.0000
Lieu	198.9	4	62.42***	2.40	0.0000
Interaction Lieu X variété	173.9	116	1.88***	1.28	0.0000
Erreur	231.0	290			
Total	741.6	439			

Charbon (% de plantes atteintes) / Beulenbrand

		Moyenne	Eglisau	Reckenholz
STD	Atendo Anjou 290	9.3	4.4	14.3
STD	PR39T45	* 1.7	3.4	0.0
STD	Marcello	0.7	0.0	1.3
STD	Ronaldinio	* 0.0	0.0	0.0
STD	Ansyl	0.0	0.0	0.0
STD	NK Sigmund	1.8	1.2	2.4
T	Anjou 249	2.2	0.0	4.4
T	DK 287	1.1	2.2	0.0
T	Amadeo	0.7	0.0	1.4
T	Taxxo	0.0	0.0	0.0
T	Ciclixx	0.0	0.0	0.0
T	NK Cassio	2.3	1.8	2.8
T	NK silotop	0.6	1.1	0.0
e2	Grosso	2.7	0.6	4.8
e2	Santurio	0.4	0.7	0.0
e2	Fadeo	2.6	1.2	4.1
2	DSP 35330	0.3	0.0	0.6
e2	PR35F38	0.0	0.0	0.0
e1	SY Quartz	0.0	0.0	0.0
e1	PR38Y34	0.0	0.0	0.0
1	DSP38293	0.7	0.7	0.7
e1	LG 30275	5.9	1.4	10.3
e1	LZM 259/43	2.6	1.2	4.0
e1	CSM 8369	0.4	0.0	0.7
e1	SL Magello	1.4	0.7	2.2
e1	KXA 9144	1.0	0.0	1.9
e1	KXA 9148	0.0	0.0	0.0
e1	KXA 9329	0.0	0.0	0.0
e1	KXA 9354	0.9	1.8	0.0
e1	KXA 9361	0.0	0.0	0.0
	Moyenne	1.3	0.7	1.9
	Témoins	0.8	1.7	0.0
	PPDS (5 %)	2.5	2.7	4.3
	PPDS (1 %)	3.3	3.5	5.7
	C.V [%]	166.3	219.6	139.2

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	688.3	29	5.02***	1.57	0.0000
Lieu	57.7	1	12.21***	3.92	0.0007
Interaction Lieu X variété	344.8	29	2.52***	1.57	0.0003
Erreur	547.9	116			
Total	1638.7	175			

Hauteur des plantes (cm) / Pflanzenhöhe

		<i>Moyenne</i>	Reckenholz
STD	Atendo Anjou 290	270.0	270.0
STD	PR39T45	* 256.7	256.7
STD	Marcello	250.0	250.0
STD	Ronaldinio	* 240.0	240.0
STD	Ansyl	256.7	256.7
STD	NK Sigmund	260.0	260.0
T	Anjou 249	265.0	265.0
T	DK 287	256.7	256.7
T	Amadeo	246.7	246.7
T	Taxxoa	286.7	286.7
T	Ciclixx	266.7	266.7
T	NK Cassio	246.7	246.7
T	NK silotop	253.3	253.3
e2	Grosso	266.7	266.7
e2	Santurio	246.7	246.7
e2	Fadeo	256.7	256.7
2	DSP 35330	266.7	266.7
e2	PR35F38	270.0	270.0
e1	SY Quartz	253.3	253.3
e1	PR38Y34	263.3	263.3
1	DSP38293	268.3	268.3
e1	LG 30275	263.3	263.3
e1	LZM 259/43	256.7	256.7
e1	CSM 8369	263.3	263.3
e1	SL Magello	273.3	273.3
e1	KXA 9144	283.3	283.3
e1	KXA 9148	260.0	260.0
e1	KXA 9329	266.7	266.7
e1	KXA 9354	265.0	265.0
e1	KXA 9361	260.0	260.0
	<i>Moyenne</i>	261.3	261.3
	<i>Témoins</i>	248.3	248.3
	<i>PPDS (5 %)</i>	12.8	12.8
	<i>PPDS (1 %)</i>	17.1	17.1
	<i>C.V [%]</i>	3.0	3.0

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	9278.1	29	5.19***	1.66	0.0000
Erreur	3576.1	58			
Total	12854.2	87			

Hauteur de l'insertion de l'épi (cm) / Ansatzhöhe des obersten Kolbens

	<i>Moyenne</i>	Reckenzholz
STD Atendo Anjou 290	120.0	120.0
STD PR39T45	* 110.0	110.0
STD Marcello	120.0	120.0
STD Ronaldinio	* 110.0	110.0
STD Ansyl	118.3	118.3
STD NK Sigmund	123.3	123.3
T Anjou 249	116.7	116.7
T DK 287	118.3	118.3
T Amadeo	110.0	110.0
T Taxxa	130.0	130.0
T Ciclixx	110.0	110.0
T NK Cassio	110.0	110.0
T NK silotop	123.3	123.3
e2 Grosso	126.7	126.7
e2 Santurio	115.0	115.0
e2 Fadeo	116.7	116.7
2 DSP 35330	113.3	113.3
e2 PR35F38	130.0	130.0
e1 SY Quartz	106.7	106.7
e1 PR38Y34	113.3	113.3
1 DSP38293	120.0	120.0
e1 LG 30275	116.7	116.7
e1 LZM 259/43	123.3	123.3
e1 CSM 8369	126.7	126.7
e1 SL Magello	130.0	130.0
e1 KXA 9144	136.7	136.7
e1 KXA 9148	123.3	123.3
e1 KXA 9329	133.3	133.3
e1 KXA 9354	126.7	126.7
e1 KXA 9361	121.7	121.7
<i>Moyenne</i>	120.0	120.0
<i>Témoins</i>	110.0	110.0
<i>PPDS (5 %)</i>	9.9	9.9
<i>PPDS (1 %)</i>	13.2	13.2
<i>C.V [%]</i>	5.0	5.0

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	5300.0	29	4.99***	1.66	0.0000
Erreur	2125.0	58			
Total	7425.0	87			

Densité à la récolte (plantes/m2) / Effektive Bestandesdichte bei der Ernte

		<i>Moyenne</i>	Ellighausen	Delley	Eglisau	Goumoens	Vouvry	Widnau	Koppigen	Reckenholz
STD	Atendo Anjou 290	9.2	8.6	10.0	9.1	9.1	8.8	9.2	9.3	9.8
STD	PR39T45	8.7	7.8	10.0	8.8	8.8	8.6	7.5	9.1	9.4
STD	Marcello	9.0	8.9	10.0	9.2	8.9	8.7	8.1	9.0	9.3
STD	Ronaldinio	8.9	8.1	10.0	8.4	9.4	8.6	8.2	9.2	8.9
STD	Ansyl	8.7	8.1	10.0	8.5	8.6	8.7	7.7	9.3	8.9
STD	NK Sigmund	8.8	8.1	10.0	9.0	8.9	8.6	7.8	9.0	9.2
T	Anjou 249	8.6	8.0	10.0	8.6	8.9	8.4	7.9	8.7	7.9
T	DK 287	8.8	8.0	10.0	9.0	8.7	8.8	8.1	9.0	8.8
T	Amadeo	8.8	8.2	10.0	9.0	8.9	8.5	8.2	9.1	8.4
T	Taxxoa	8.9	7.8	10.0	9.1	8.7	8.6	8.7	9.1	8.8
T	Ciclixx	8.8	8.5	10.0	8.8	8.7	8.6	8.8	8.9	8.3
T	NK Cassio	8.9	7.9	10.0	9.0	9.2	8.7	8.1	9.2	8.9
T	NK silotop	9.1	8.2	10.0	9.5	8.7	8.8	8.8	9.2	9.5
e2	Grosso	8.9	8.1	10.0	9.2	8.7	8.7	8.5	8.9	8.8
e2	Santurio	8.6	7.5	10.0	8.7	8.9	8.5	7.9	9.0	8.4
e2	Fadeo	8.7	8.0	10.0	9.0	8.5	8.7	8.0	9.1	8.4
2	DSP 35330	8.8	8.3	9.8	8.4	8.8	8.6	8.8	9.0	8.8
e2	PR35F38	8.5	7.6	10.0	8.9	8.6	8.0	7.5	8.7	8.8
e1	SY Quartz	8.7	7.5	10.0	8.7	8.9	8.7	8.4	9.0	8.5
e1	PR38Y34	8.7	8.2	10.0	9.4	8.9	8.6	7.3	8.5	8.8
1	DSP38293	8.6	8.1	9.8	8.5	8.9	8.6	7.5	9.2	8.4
e1	LG 30275	8.8	7.5	10.0	8.9	9.0	8.7	7.8	9.3	9.0
e1	LZM 259/43	8.8	7.9	10.0	8.5	8.6	8.7	8.8	8.9	8.7
e1	CSM 8369	8.6	8.2	10.0	8.8	8.8	8.7	7.2	8.8	8.6
e1	SL Magello	8.7	8.3	10.4	8.5	8.4	8.4	8.4	9.0	8.5
e1	KXA 9144	8.8	8.3	10.2	8.9	9.0	8.7	7.2	9.2	8.7
e1	KXA 9148	9.0	8.8	10.2	9.3	8.8	8.7	8.2	9.0	8.9
e1	KXA 9329	8.7	8.1	10.0	8.9	8.7	8.6	7.8	9.0	8.5
e1	KXA 9354	9.0	8.3	10.0	9.4	8.8	8.8	8.5	9.1	8.9
e1	KXA 9361	9.0	8.1	10.2	9.4	9.0	8.9	8.0	9.2	9.0
	<i>Moyenne</i>	8.8	8.1	10.0	8.9	8.8	8.6	8.1	9.0	8.8
	<i>Témoins</i>	8.8	8.0	10.0	8.6	9.1	8.6	7.8	9.2	9.2
	<i>PPDS (5 %)</i>	0.3	1.0	0.2	0.8	0.6	0.3	1.2	0.5	1.0
	<i>PPDS (1 %)</i>	0.4	1.3	0.3	1.0	0.7	0.4	1.6	0.7	1.4
	<i>C.V [%]</i>	5.4	7.4	1.5	5.4	3.8	2.2	9.3	3.6	7.2

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	16.6	29	2.51***	1.49	0.0000
Lieu	230.5	7	144.49***	2.03	0.0000
Interaction Lieu X variété	48.6	203	1.05n.s	1.21	0.3366
Erreur	105.8	464			
Total	401.4	703			

Nb de jours du semis à la floraison femelle / Anzahl Tage zwischen Saat und 50% weiblicher Blüte

		<i>Moyenne</i>	Reckenholz
STD	Atendo Anjou 290	85.7	85.7
STD	PR39T45	* 86.3	86.3
STD	Marcello	85.0	85.0
STD	Ronaldinio	* 85.0	85.0
STD	Ansyl	85.3	85.3
STD	NK Sigmund	86.0	86.0
T	Anjou 249	85.0	85.0
T	DK 287	87.0	87.0
T	Amadeo	82.0	82.0
T	Taxxo	85.7	85.7
T	Ciclixx	86.0	86.0
T	NK Cassio	83.7	83.7
T	NK silotop	86.3	86.3
e2	Grosso	85.3	85.3
e2	Santurio	84.7	84.7
e2	Fadeo	85.3	85.3
2	DSP 35330	86.7	86.7
e2	PR35F38	94.0	94.0
e1	SY Quartz	84.7	84.7
e1	PR38Y34	87.7	87.7
1	DSP38293	87.0	87.0
e1	LG 30275	87.7	87.7
e1	LZM 259/43	85.7	85.7
e1	CSM 8369	85.7	85.7
e1	SL Magello	85.0	85.0
e1	KXA 9144	85.7	85.7
e1	KXA 9148	85.3	85.3
e1	KXA 9329	84.3	84.3
e1	KXA 9354	87.3	87.3
e1	KXA 9361	91.0	91.0
	<i>Moyenne</i>	86.1	86.1
	<i>Témoins</i>	85.7	85.7
	<i>PPDS (5 %)</i>	1.8	1.8
	<i>PPDS (1 %)</i>	2.4	2.4
	<i>C.V [%]</i>	1.3	1.3

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	398.9	29	11.77***	1.66	0.0000
Erreur	67.8	58			
Total	466.7	87			

Matière organique digestible (g/kg MS) / VOS

		<i>Moyenne</i>	Ellighausen	Delley	Eglisau	Goumoens	Vouvry	Widnau	Koppigen	Reckenholz
STD	Atendo Anjou 290	701.1	698.1	722.4	693.3	711.1	655.4	729.9	679.0	719.9
STD	PR39T45	* 724.8	725.4	726.6	728.4	726.7	699.7	757.2	709.3	725.3
STD	Marcello	712.7	715.6	746.6	726.3	709.9	647.2	742.9	685.7	727.5
STD	Ronaldinio	* 722.9	733.8	740.3	730.5	718.6	694.1	749.2	698.9	717.5
STD	Ansyl	709.0	711.1	740.5	699.2	723.0	677.4	710.8	693.3	716.9
STD	NK Sigmund	709.1	724.8	728.4	709.4	703.0	672.2	726.5	689.8	718.5
T	Anjou 249	703.4	717.3	716.5	708.9	692.4	654.6	722.1	697.3	718.3
T	DK 287	717.6	735.1	740.4	721.2	703.4	677.5	720.0	707.7	735.7
T	Amadeo	715.3	725.5	729.0	704.6	701.7	710.4	738.0	710.1	702.9
T	Taxxoa	700.8	723.6	711.0	692.2	678.9	675.2	718.0	689.8	717.5
T	Ciclixx	712.2	729.7	730.1	701.0	688.8	682.5	745.0	700.7	719.8
T	NK Cassio	725.5	734.2	738.9	711.8	724.9	720.4	741.7	707.1	724.9
T	NK silotop	719.9	737.9	746.6	738.0	707.5	676.7	722.1	696.8	733.6
e2	Grosso	713.8	749.3	737.1	722.8	701.9	695.2	742.9	659.8	701.0
e2	Santurio	713.5	727.2	731.6	714.5	696.9	682.6	739.6	694.1	721.1
e2	Fadeo	710.9	717.5	718.8	717.6	694.7	698.1	737.6	681.7	721.0
2	DSP 35330	720.0	732.1	737.1	720.2	714.2	706.0	720.5	710.2	719.5
e2	PR35F38	720.5	740.5	727.4	733.3	697.3	685.5	744.9	693.6	741.9
e1	SY Quartz	713.3	728.9	739.7	716.4	684.0	675.6	740.1	707.3	714.7
e1	PR38Y34	709.7	721.6	720.8	715.1	700.5	662.1	735.3	696.6	725.4
1	DSP38293	714.6	735.9	733.4	706.8	696.9	676.4	734.0	703.3	729.8
e1	LG 30275	712.1	733.0	730.7	719.9	699.9	664.0	729.5	701.7	718.4
e1	LZM 259/43	714.9	734.9	737.1	716.5	716.0	653.7	738.2	684.9	737.4
e1	CSM 8369	708.0	710.4	729.2	712.8	699.3	667.5	727.3	703.7	713.6
e1	SL Magello	691.0	724.9	722.9	706.7	678.1	642.0	706.7	655.3	691.2
e1	KXA 9144	702.3	711.4	718.8	704.9	701.2	642.4	748.8	669.2	721.8
e1	KXA 9148	715.1	727.5	731.8	705.9	713.4	694.9	734.9	690.7	721.6
e1	KXA 9329	723.6	739.7	740.1	732.3	703.4	688.6	741.2	709.9	733.6
e1	KXA 9354	717.0	724.6	725.6	724.7	705.8	690.3	737.0	689.8	737.9
e1	KXA 9361	716.9	731.4	743.5	725.5	708.0	642.5	748.1	694.5	741.7
	<i>Moyenne</i>	713.0	726.8	731.4	715.4	703.4	677.0	734.3	693.7	722.3
	<i>Témoins</i>	723.8	729.6	733.4	729.4	722.6	696.9	753.2	704.1	721.4
	<i>PPDS (5 %)</i>	11.1	25.6	23.8	24.7	40.0	47.8	22.9	38.4	21.9
	<i>PPDS (1 %)</i>	14.6	34.0	31.6	32.8	53.2	63.6	30.4	51.0	29.2
	<i>C.V [%]</i>	2.7	2.2	2.0	2.1	3.5	4.3	1.9	3.4	1.9

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	42731.0	29	3.85***	1.49	0.0000
Lieu	255121.3	7	95.11***	2.03	0.0000
Interaction Lieu X variété	79095.1	203	1.02n.s	1.21	0.4382
Erreur	177802.6	464			
Total	554750.0	703			

Teneur en cellulose brute (g/kg MS)

		<i>Moyenne</i>	Ellighausen	Delley	Eglisau	Goumoens	Vouvry	Widnau	Koppigen	Reckenholz
STD	Atendo Anjou 290	164.3	172.8	163.8	177.6	156.5	177.1	160.3	168.5	137.7
STD	PR39T45	*	171.5	168.1	156.3	140.6	161.6	153.6	162.1	130.1
STD	Marcello	158.5	170.3	153.3	158.7	137.4	184.7	155.5	167.6	140.6
STD	Ronaldinio	*	151.7	159.7	155.8	145.1	133.5	164.7	154.4	159.5
STD	Ansyl	156.8	174.0	145.8	170.4	127.2	159.2	168.9	164.7	143.7
STD	NK Sigmund	162.5	169.7	165.1	166.0	143.3	182.9	161.8	170.7	140.1
T	Anjou 249	152.8	166.2	156.6	157.7	129.7	169.2	158.5	146.0	138.7
T	DK 287	160.4	171.4	159.7	157.0	154.4	178.8	167.0	159.1	135.7
T	Amadeo	150.2	168.2	161.2	156.3	134.3	149.8	147.1	147.1	137.3
T	Taxxo	162.2	164.7	171.0	174.8	146.4	168.2	161.5	165.4	145.2
T	Ciclixx	153.6	166.6	159.2	148.6	137.5	168.4	151.1	158.0	139.6
T	NK Cassio	151.1	162.2	155.8	162.8	126.4	149.5	157.0	159.5	135.7
T	NK silotop	160.9	169.3	155.9	162.5	144.5	178.4	170.4	169.1	137.4
e2	Grosso	162.8	165.6	160.4	157.3	154.9	171.0	161.7	188.2	143.5
e2	Santurio	157.0	171.4	156.9	150.4	143.4	175.7	150.1	176.3	131.8
e2	Fadeo	154.1	165.1	158.6	150.6	134.9	151.4	152.7	173.7	146.0
2	DSP 35330	158.0	175.5	157.7	157.9	143.2	153.7	169.4	168.7	137.9
e2	PR35F38	172.8	175.6	177.7	177.2	161.8	183.3	166.3	184.4	156.4
e1	SY Quartz	161.3	159.7	153.9	176.5	152.5	173.9	154.5	171.2	148.4
e1	PR38Y34	167.7	178.7	170.6	166.2	145.5	189.9	160.4	181.7	148.8
1	DSP38293	163.4	163.3	158.6	177.0	148.1	181.0	166.4	169.2	143.7
e1	LG 30275	158.5	165.4	163.1	161.0	134.8	176.0	162.1	167.7	138.0
e1	LZM 259/43	160.5	170.0	157.2	162.3	136.1	186.9	159.5	172.9	138.8
e1	CSM 8369	162.9	177.0	158.9	168.9	146.4	179.9	158.6	165.7	147.7
e1	SL Magello	162.6	171.7	157.2	152.3	141.6	178.9	161.3	191.5	146.4
e1	KXA 9144	154.7	164.6	158.0	153.0	129.1	174.2	143.6	178.6	136.2
e1	KXA 9148	157.6	169.2	158.1	158.8	134.1	163.9	160.4	179.1	137.3
e1	KXA 9329	157.7	165.2	158.5	152.9	151.5	162.7	161.0	171.3	138.2
e1	KXA 9354	169.9	175.0	168.4	177.4	157.9	174.4	164.7	192.9	148.4
e1	KXA 9361	165.1	168.9	160.2	169.2	143.8	194.4	158.4	189.3	136.8
	<i>Moyenne</i>	159.6	168.9	160.2	162.1	142.4	172.1	159.3	170.7	140.9
	<i>Témoins</i>	153.6	165.6	161.9	150.7	137.1	163.2	154.0	160.8	135.4
	<i>PPDS (5 %)</i>	6.8	15.1	14.7	19.7	18.7	28.3	14.7	20.6	21.8
	<i>PPDS (1 %)</i>	9.0	20.1	19.5	26.3	24.9	37.7	19.6	27.4	29.0
	<i>C.V [%]</i>	7.5	5.5	5.6	7.5	8.0	10.1	5.7	7.4	9.5

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	20846.2	29	4.96***	1.49	0.0000
Lieu	91750.4	7	90.35***	2.03	0.0000
Interaction Lieu X variété	31139.8	203	1.06n.s	1.21	0.3136
Erreur	67313.4	464			
Total	211049.9	703			

Teneur en protéines (g/kg MS)

		<i>Moyenne</i>	Ellighausen	Delley	Eglisau	Goumoens	Vouvry	Widnau	Koppigen	Reckenholz
STD	Atendo Anjou 290	68.2	76.9	77.0	57.1	67.5	75.4	70.1	54.8	66.6
STD	PR39T45	65.1	67.5	68.2	58.8	67.9	71.1	68.5	54.9	63.7
STD	Marcello	68.2	71.3	72.3	60.7	71.7	70.3	71.8	61.5	66.3
STD	Ronaldinio	69.5	67.6	72.0	64.5	75.1	78.0	73.8	58.5	66.4
STD	Ansyl	73.0	78.0	79.3	62.4	77.2	80.9	77.9	59.7	68.6
STD	NK Sigmund	68.2	69.3	73.6	62.0	70.8	75.3	70.8	56.5	66.9
T	Anjou 249	68.0	75.1	72.2	60.1	69.4	76.3	69.8	57.2	64.1
T	DK 287	66.3	70.9	71.1	60.3	67.0	69.7	69.9	57.6	63.8
T	Amadeo	68.9	67.3	70.5	63.8	74.3	77.8	70.0	61.5	66.2
T	Taxxo	65.2	69.5	69.0	59.0	68.3	72.7	65.8	54.4	62.7
T	Ciclixx	68.4	71.8	76.3	62.0	71.8	72.2	67.5	60.4	65.0
T	NK Cassio	69.9	69.6	70.4	65.1	78.0	78.3	70.9	60.5	66.6
T	NK silotop	68.0	72.0	72.7	58.2	75.3	70.8	68.9	59.8	66.2
e2	Grosso	65.4	68.3	70.8	57.6	64.3	74.9	69.8	54.1	63.0
e2	Santurio	66.2	67.9	69.0	61.6	67.0	71.7	69.9	55.9	66.5
e2	Fadeo	71.3	74.5	76.6	63.8	70.8	81.2	76.0	59.0	68.7
2	DSP 35330	63.9	64.0	67.6	59.4	63.9	76.2	66.6	53.3	60.2
e2	PR35F38	69.5	77.8	79.1	58.3	68.4	77.5	70.6	58.6	65.6
e1	SY Quartz	72.5	72.0	73.4	63.7	75.2	86.8	73.1	66.2	69.6
e1	PR38Y34	68.6	76.7	74.4	58.8	63.7	77.1	70.9	61.7	65.2
1	DSP38293	65.3	68.3	68.8	58.5	66.5	71.4	65.6	61.8	61.3
e1	LG 30275	72.4	78.2	79.7	63.1	76.0	76.8	74.4	61.7	69.2
e1	LZM 259/43	67.9	72.8	73.4	61.5	67.2	70.2	72.1	59.6	66.2
e1	CSM 8369	71.1	74.8	76.1	59.5	68.1	83.1	75.7	62.4	69.1
e1	SL Magello	69.9	77.6	71.8	64.1	72.1	74.7	73.0	57.6	68.6
e1	KXA 9144	66.3	70.1	71.2	60.2	69.3	69.1	72.3	53.8	64.5
e1	KXA 9148	68.1	70.4	72.2	59.7	67.9	76.3	71.6	60.5	66.3
e1	KXA 9329	67.9	71.9	75.3	61.7	66.3	73.2	69.3	60.4	65.0
e1	KXA 9354	63.4	68.9	67.1	55.6	65.9	65.5	65.3	56.8	62.4
e1	KXA 9361	67.4	69.9	73.4	58.8	68.9	75.1	70.2	55.7	66.9
	<i>Moyenne</i>	68.1	71.7	72.8	60.7	69.9	75.0	70.7	58.5	65.7
	<i>Témoins</i>	67.3	67.6	70.1	61.7	71.5	74.6	71.1	56.7	65.0
	<i>PPDS (5 %)</i>	1.8	4.0	3.8	4.3	5.5	7.2	5.5	6.0	4.7
	<i>PPDS (1 %)</i>	2.4	5.3	5.1	5.7	7.3	9.6	7.3	8.0	6.2
	<i>C.V [%]</i>	4.7	3.4	3.2	4.3	4.8	5.9	4.7	6.3	4.4

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	4228.4	29	14.14***	1.49	0.0000
Lieu	22052.2	7	305.57***	2.03	0.0000
Interaction Lieu X variété	3886.3	203	1.86***	1.21	0.0000
Erreur	4783.6	464			
Total	34950.5	703			

Teneur en amidon (g/ kg MS)

		<i>Moyenne</i>	Ellighausen	Delley	Eglisau	Goumoens	Vouvry	Widnau	Koppigen	Reckenholz
STD	Atendo Anjou 290	290.5	240.2	288.6	327.4	296.7	244.2	322.2	245.6	359.4
STD	PR39T45	348.8	285.7	346.6	365.6	355.6	382.7	352.2	326.8	375.5
STD	Marcello	333.9	294.3	351.9	375.7	318.6	306.8	352.4	298.6	373.1
STD	Ronaldinio	344.2	333.2	354.5	376.9	319.1	330.6	350.4	329.1	360.0
STD	Ansyl	302.5	254.2	350.2	326.4	296.0	291.6	271.9	280.4	349.0
STD	NK Sigmund	304.7	283.6	305.1	337.3	266.3	295.0	312.4	276.1	361.7
T	Anjou 249	301.3	271.2	303.4	347.7	256.6	265.1	326.3	300.8	339.3
T	DK 287	328.0	289.8	325.6	363.0	280.3	319.7	328.1	337.4	379.8
T	Amadeo	347.4	330.1	355.5	331.3	299.6	364.0	364.8	369.3	364.7
T	Taxxo	296.7	280.7	304.0	318.5	223.4	275.2	322.1	296.3	353.1
T	Ciclixx	306.6	284.8	313.3	320.7	254.7	266.3	351.0	328.6	333.4
T	NK Cassio	357.6	323.3	351.8	343.7	366.2	380.5	353.9	360.5	380.6
T	NK silotop	328.2	302.9	355.8	371.7	287.7	271.6	327.9	311.7	396.5
e2	Grosso	339.6	338.8	358.9	383.0	302.6	334.3	358.8	266.8	373.6
e2	Santurio	307.1	282.7	324.8	330.0	277.0	291.5	315.4	278.6	356.4
e2	Fadeo	327.2	320.6	311.6	394.1	302.1	327.4	341.2	277.3	343.1
2	DSP 35330	328.6	283.4	347.1	362.6	293.4	356.9	320.6	300.0	364.3
e2	PR35F38	278.0	223.7	275.4	351.1	251.9	271.8	317.0	195.3	337.8
e1	SY Quartz	332.6	331.1	358.8	338.6	296.2	313.8	346.3	324.3	351.8
e1	PR38Y34	296.9	251.9	294.6	340.0	259.8	302.8	309.8	258.8	357.6
1	DSP38293	327.2	310.1	336.2	335.8	310.7	339.5	320.7	277.9	386.7
e1	LG 30275	289.4	266.6	287.3	337.6	260.6	242.7	324.7	259.7	336.2
e1	LZM 259/43	288.8	285.9	322.8	330.7	299.5	196.6	308.9	222.1	343.8
e1	CSM 8369	328.9	277.6	336.8	369.6	325.3	320.7	324.4	310.0	366.8
e1	SL Magello	311.4	271.3	338.5	368.1	309.6	275.7	337.6	244.8	346.0
e1	KXA 9144	322.6	309.5	318.3	357.3	324.1	271.8	370.1	265.5	363.8
e1	KXA 9148	337.5	330.9	353.1	374.3	300.9	335.5	342.2	286.6	376.4
e1	KXA 9329	343.0	324.7	347.8	386.6	314.1	297.8	349.8	319.4	404.1
e1	KXA 9354	331.8	294.5	331.8	370.0	316.2	339.3	344.9	286.4	371.6
e1	KXA 9361	307.9	281.2	308.8	351.8	280.8	261.6	341.0	264.3	373.5
	<i>Moyenne</i>	319.6	291.9	328.6	352.9	294.9	302.4	333.6	290.0	362.7
	<i>Témoins</i>	346.5	309.4	350.6	371.3	337.3	356.6	351.3	327.9	367.7
	<i>PPDS (5 %)</i>	19.7	37.0	34.3	33.6	74.8	96.1	38.9	62.2	43.0
	<i>PPDS (1 %)</i>	25.9	49.3	45.7	44.7	99.5	127.9	51.8	82.7	57.2
	<i>C.V [%]</i>	10.9	7.8	6.4	5.8	15.5	19.4	7.1	13.1	7.3

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	306193.8	29	8.76***	1.49	0.0000
Lieu	521305.3	7	61.82***	2.03	0.0000
Interaction Lieu X variété	295670.6	203	1.21n.s	1.21	0.0517
Erreur	558953.8	464			
Total	1682123.5	703			

Teneur en parois cellulaires (NDF) (g/kg MS)

		<i>Moyenne</i>	Ellighausen	Delley	Eglisau	Goumoens	Vouvry	Widnau	Koppigen	Reckenholz
STD	Atendo Anjou 290	393.9	401.2	390.2	376.8	409.8	417.4	353.5	445.9	356.9
STD	PR39T45	365.3	387.4	387.7	343.5	376.1	368.5	326.1	398.1	335.1
STD	Marcello	375.5	372.8	372.3	341.8	393.9	414.0	343.0	410.3	355.9
STD	Ronaldinio	365.3	366.2	372.5	333.7	387.4	381.0	336.3	396.3	349.1
STD	Ansyl	384.1	399.0	361.7	362.4	397.1	397.7	386.2	405.2	363.2
STD	NK Sigmund	384.8	371.5	379.9	367.3	407.8	409.2	361.3	420.9	360.9
T	Anjou 249	376.9	359.9	384.1	341.8	415.6	399.7	366.5	390.5	357.3
T	DK 287	383.2	370.5	403.4	342.9	417.8	405.3	371.7	410.6	343.7
T	Amadeo	361.4	361.4	378.2	350.9	382.0	363.8	336.4	355.5	363.4
T	Taxxo	405.5	396.4	407.4	406.9	448.6	425.8	384.3	418.1	356.5
T	Ciclixx	381.8	373.3	383.8	355.8	421.0	417.0	361.5	393.5	348.7
T	NK Cassio	365.8	373.4	382.2	370.4	370.7	345.7	347.7	390.2	346.0
T	NK silotop	384.8	371.5	383.4	339.7	433.2	420.6	378.8	410.7	340.1
e2	Grosso	374.8	356.6	372.4	346.9	423.2	379.4	342.6	428.3	349.1
e2	Santurio	380.9	387.7	392.7	347.8	419.8	383.5	340.1	410.9	364.9
e2	Fadeo	374.7	370.3	401.5	332.5	409.7	386.6	337.2	400.3	359.6
2	DSP 35330	380.2	386.2	379.8	356.2	413.5	370.4	370.4	400.4	364.9
e2	PR35F38	389.9	385.7	398.9	340.4	423.2	414.7	354.1	435.5	366.5
e1	SY Quartz	369.5	357.8	367.7	350.5	406.5	373.0	344.7	396.8	358.8
e1	PR38Y34	390.5	390.4	410.9	360.5	416.2	419.8	359.0	402.8	364.2
1	DSP38293	381.8	363.6	394.6	378.5	396.7	412.5	357.0	416.2	335.1
e1	LG 30275	386.4	383.1	394.9	351.7	422.9	420.4	357.9	413.7	347.0
e1	LZM 259/43	387.1	375.2	391.4	362.4	402.2	445.3	348.3	440.1	331.9
e1	CSM 8369	386.3	395.6	392.4	366.4	401.6	413.1	358.9	399.3	363.6
e1	SL Magello	395.1	377.5	392.2	354.7	431.0	429.6	361.8	435.4	378.9
e1	KXA 9144	383.8	388.4	385.2	360.3	386.6	444.2	328.7	416.7	360.3
e1	KXA 9148	374.7	376.3	383.4	349.4	396.6	392.6	349.1	403.1	347.0
e1	KXA 9329	370.3	356.1	377.9	331.4	413.8	394.1	343.8	398.2	347.0
e1	KXA 9354	381.6	389.3	394.2	359.4	398.3	404.4	362.1	399.2	345.8
e1	KXA 9361	380.6	365.9	365.3	357.8	407.7	452.7	342.0	411.6	341.3
	<i>Moyenne</i>	380.6	377.0	386.1	354.7	407.7	403.4	353.7	408.5	353.4
	<i>Témoins</i>	365.3	376.8	380.1	338.6	381.7	374.8	331.2	397.2	342.1
	<i>PPDS (5 %)</i>	12.9	31.9	29.9	32.9	41.9	50.4	28.3	41.4	34.9
	<i>PPDS (1 %)</i>	17.0	42.4	39.7	43.8	55.8	67.0	37.6	55.1	46.4
	<i>C.V [%]</i>	6.0	5.2	4.7	5.7	6.3	7.6	4.9	6.2	6.0

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	67180.6	29	4.49***	1.49	0.0000
Lieu	378645.3	7	104.95***	2.03	0.0000
Interaction Lieu X variété	124488.7	203	1.19n.s	1.21	0.0680
Erreur	239143.8	464			
Total	809458.4	703			

Teneur en énergie nette pour la lactation (NEL) (g/kg MS)

		<i>Moyenne</i>	Ellighausen	Delley	Eglisau	Goumoens	Vouvry	Widnau	Koppigen	Reckenholz
STD	Atendo Anjou 290	6.4	6.3	6.6	6.3	6.5	5.9	6.7	6.1	6.6
STD	PR39T45	6.6	6.6	6.6	6.7	6.6	6.3	7.0	6.4	6.6
STD	Marcello	6.5	6.5	6.9	6.6	6.5	5.8	6.8	6.2	6.6
STD	Ronaldinio	6.6	6.7	6.8	6.7	6.5	6.3	6.9	6.3	6.5
STD	Ansyl	6.4	6.5	6.8	6.3	6.6	6.1	6.5	6.3	6.5
STD	NK Sigmund	6.4	6.6	6.6	6.4	6.4	6.0	6.6	6.2	6.5
T	Anjou 249	6.4	6.5	6.5	6.4	6.2	5.8	6.6	6.3	6.5
T	DK 287	6.5	6.7	6.8	6.6	6.4	6.1	6.6	6.4	6.7
T	Amadeo	6.5	6.6	6.7	6.4	6.4	6.5	6.8	6.4	6.4
T	Taxxo	6.3	6.6	6.5	6.2	6.1	6.1	6.5	6.2	6.5
T	Ciclixx	6.5	6.7	6.7	6.4	6.2	6.1	6.8	6.3	6.6
T	NK Cassio	6.6	6.7	6.8	6.5	6.6	6.6	6.8	6.4	6.6
T	NK silotop	6.6	6.8	6.9	6.8	6.4	6.1	6.6	6.3	6.7
e2	Grosso	6.5	6.9	6.7	6.6	6.4	6.3	6.8	5.9	6.3
e2	Santurio	6.5	6.6	6.7	6.5	6.3	6.2	6.8	6.3	6.6
e2	Fadeo	6.5	6.5	6.5	6.5	6.3	6.3	6.8	6.1	6.6
2	DSP 35330	6.6	6.7	6.7	6.6	6.5	6.4	6.6	6.4	6.6
e2	PR35F38	6.6	6.8	6.7	6.7	6.3	6.2	6.8	6.3	6.8
e1	SY Quartz	6.5	6.7	6.8	6.5	6.2	6.1	6.8	6.4	6.5
e1	PR38Y34	6.4	6.6	6.6	6.5	6.4	5.9	6.7	6.3	6.6
1	DSP38293	6.5	6.7	6.7	6.4	6.3	6.1	6.7	6.4	6.7
e1	LG 30275	6.5	6.7	6.7	6.6	6.3	6.0	6.7	6.3	6.5
e1	LZM 259/43	6.5	6.7	6.8	6.5	6.5	5.8	6.8	6.2	6.8
e1	CSM 8369	6.4	6.5	6.7	6.5	6.3	6.0	6.6	6.4	6.5
e1	SL Magello	6.2	6.6	6.6	6.4	6.1	5.7	6.4	5.8	6.2
e1	KXA 9144	6.4	6.5	6.5	6.4	6.4	5.7	6.9	6.0	6.6
e1	KXA 9148	6.5	6.7	6.7	6.4	6.5	6.3	6.7	6.2	6.6
e1	KXA 9329	6.6	6.8	6.8	6.7	6.4	6.2	6.8	6.4	6.7
e1	KXA 9354	6.5	6.6	6.6	6.6	6.4	6.2	6.8	6.2	6.8
e1	KXA 9361	6.5	6.7	6.8	6.6	6.4	5.7	6.9	6.3	6.8
	<i>Moyenne</i>	6.5	6.6	6.7	6.5	6.4	6.1	6.7	6.3	6.6
	<i>Témoins</i>	6.6	6.7	6.7	6.7	6.6	6.3	6.9	6.4	6.6
	<i>PPDS (5 %)</i>	0.1	0.3	0.3	0.3	0.4	0.5	0.3	0.4	0.2
	<i>PPDS (1 %)</i>	0.2	0.4	0.4	0.4	0.6	0.7	0.3	0.6	0.3
	<i>C.V [%]</i>	3.4	2.7	2.5	2.6	4.3	5.2	2.4	4.1	2.3

Analyse de variance

	somme des carrés	DDL	F	F(95%)	P0
Variétés	5.3	29	3.89***	1.49	0.0000
Lieu	31.7	7	95.92***	2.03	0.0000
Interaction Lieu X variété	9.7	203	1.01n.s	1.21	0.4623
Erreur	21.9	464			
Total	68.7	703			