

ANALYSIS OF SUBSTANTIAL EQUIVALENCE OF DOUBLE-HERBICIDE-TOLERANT SOYBEAN

BY MEANS OF T-TEST FOR DIFFERENCES

**Double-Herbicide-Tolerant Soybean
(Transformation Event FG72)
vs
Non-transgenic Counterpart (Jack)**

Studies: HT08SOY (field trials 2008)

STATISTICAL REPORT

Version 3

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1. Introduction

In this report substantial equivalence between genetically modified, double-herbicide-tolerant soybeans (transformation event FG72) and their non-transgenic comparator, conventional soybeans (variety Jack) should be evaluated.

Samples from 10 sites were available for 2008 (study HT08SOY002). Within each site genetically modified soybeans (FG72) and the non-transgenic comparator (Jack) were cultivated. In addition, the genetically modified soybeans were sprayed with the herbicides Glyphosate and IFT, to which the transgenic soybean plants are tolerant. This resulted in three regimen per site, each with three samples. Additionally, three commercial soybean lines were cultivated at each site:

An overview of the different regimen is given in the following chart:

Regimen	Description	N of plots
A	non-transgenic plants (Jack), not treated	30
B	transgenic plants (FG72), not treated	30
C	transgenic plants (FG72), treated	30
D	Stine® 2686-6, not treated	10
E	Stine® 2788, not treated	10
F	Stine® 3000-0, not treated	10

From each of the 10 sites (site 201 to site 210) the following parameters were evaluated:

Proximate and fibre compounds:	moisture, protein, total fat, ash, carbohydrates, acid detergent fibre and neutral detergent fibre
Minerals:	calcium, phosphorus, potassium, magnesium, sodium and iron
Vitamins:	vitamins B1, B2, folic acid, A and K, alpha-, beta-, gamma-, delta- and total tocopherol
Anti-nutrients:	phytic acid, raffinose, stachyose, lectin and trypsin inhibitor
Isoflavones:	daidzein, glycitein, genistein, daidzin, glycitin, genistin and total isoflavones
Amino acids:	alanine, arginine, aspartic acid, cystine, glutamic acid, glycine, histidine, isoleucine, leucine, lysine, methionine, phenylalanine, proline, serine, threonine, tryptophan, tyrosine and valine
Fatty acids:	C16:0, C17:0, C18:0, C18:1, C18:2, C18:3, C20:0, C20:1, C22:0 and C24:0

2. Statistical Methods

The study data were provided in a MS-Excel file after outlier checks were performed for each component according to GRUBBS [1]. None of the values were excluded as 'outliers' from the analysis. These data were transformed into SAS data sets. All further analysis was performed using SAS version 8.2 (WINDOWS XP).

Missing data: Missing data did not occur.

Values below the limits of quantification: Beta tocopherol and the isoflavone glycitein could not be quantified in any of the samples. The fatty acid C17:0 was only quantified in 12 of the 120 samples. These parameters were not analysed further. There were other parameters which could not be quantified in a number of samples. The sites that were excluded from the statistical analyses are listed in the table below. For calculations values below the limit of quantification (LOQ, fresh conversion) were substituted as follows:

sodium:	< 0.01 ppm	→	0.01 mg/kg dm
vitamin A:	< 0.20 ppm	→	0.20 mg/kg dm
vitamin K:	< 0.10 ppm	→	0.10 mg/kg dm
isoflavones:	< 10 ppm	→	10 mg/kg dm
fatty acids:	< 0.02 %fw	→	0.10 %rel

Parameter	Value < LOQ		Sites excluded from analysis
	Yes	No	
	N	N	
Sodium	65	55	-
Vitamin A	90	30	-
Vitamin K	22	98	-
Beta tocopherol	120	-	all sites
Daidzein	90	30	-
Glycitein	120	-	all sites
Genistein	60	90	-
C17:0 Heptadecanoic Acid	108	12	all sites
C24:0 Lignoceric Acid	58	47	-

Descriptive statistics: For each characteristic and each regimen mean values, standard deviations, minimum and maximum were calculated by site and overall for all sites. These data are presented together with the frequencies of non-missing values in Tables 1a to 1g (Appendix A). The commercial lines (regimens D-F) were analysed only descriptively.

Over all analysis: The data are analysed with analysis of variance (ANOVA) methods using a model with the fixed factors REGIMEN (A, B and C) and SITE (for location) as well as the interaction term. Based on the ANOVA model regimen differences are estimated and presented together with 95% confidence intervals (Tables 2a to 2g, Appendix A). Individual regimen comparisons are only valid in cases of significant overall regimen effects ($p < 0.05$) and no significant regimen*site interactions ($p \geq 0.05$).

By site analysis: In cases of significant regimen*site interactions ($p < 0.05$) individual by site analyses are reported. For each characteristic the analysis was performed on a by-site basis with analysis of variance methods (ANOVA with factor REGIMEN), followed by t-tests comparing pair wise different regimen (see Table 3, Appendix A). In case of different outcomes for the comparison of the non-transgenic regimen with the treated and untreated genetic transformation events the by-site analysis is presented, too.

Level of significance: Regimen differences with p-values < 0.05 in the pair wise comparisons are considered as significant.

3. Results

3.1 Proximate and Fibre Compounds

(Tables 1a, 2a and 3 in Appendix A)

In the following chart mean values and standard deviations over all sites are presented for each regimen separately:

Parameter	Unit	A	B	C
		MEAN ± STD	MEAN ± STD	MEAN ± STD
Moisture	%fw	9.51 ± 0.82	9.65 ± 0.84	9.45 ± 0.83
Protein	%dm	38.2 ± 1.1	38.2 ± 0.8	38.1 ± 0.9
Total Fat	%dm	19.3 ± 0.9	18.9 ± 1.2	19.2 ± 1.1
Ash	%dm	5.24 ± 0.31	5.07 ± 0.30	5.06 ± 0.28
Carbohydrates	%dm	37.3 ± 1.2	37.9 ± 1.0	37.6 ± 1.2
Acid Detergent Fibre	%dm	17.8 ± 1.9	18.1 ± 2.0	17.9 ± 1.8
Neutral Detergent Fibre	%dm	19.8 ± 2.0	20.3 ± 2.1	20.0 ± 1.5

A summary of the statistical analysis is given in the following chart. P-values of the regimen effects and the regimen*site interactions are listed together with the p-values from the individual regimen comparisons (only in cases of no interactions and significant regimen effects). For details see Table 2a in Appendix A.

Parameter	p-value ANOVA		p-value t-test *)	
	regimen effect	regimen*site interaction	A vs B	A vs C
Moisture	0.499	0.234	0.001	<.001
Protein	0.799	0.277		
Total Fat	0.064	0.146		
Ash	<.001	0.568		
Carbohydrates	NA	0.012		
Acid Detergent Fibre	0.832	0.342		
Neutral Detergent Fibre	0.500	0.637		

*) only in cases of no interactions (p>0.05) and significant regimen effects (p<0.05)

NA: not applicable due to regimen*site interactions

Significant regimen differences (A vs B and A vs C) could be seen for ash. Due to significant regimen*site interactions an overall analysis is not valid for carbohydrates. A summary of the by site analyses for this component is given in the following chart. It can be seen that for the carbohydrates the majority of the by site analyses did not show significant differences between the regimen.

Summary t-test procedures *)	A vs B		A vs C	
	significant	not significant	significant	not significant
Carbohydrates	2	8	1	9

*) N of sites with significant (p < 0.05) and not significant (p ≥ 0.05) regimen differences

3.2 Minerals

(Tables 1b, 2b and 3 in Appendix A)

In the following chart mean values and standard deviations over all sites are presented for each regimen separately:

Parameter	Unit	A			B			C		
		MEAN	±	STD	MEAN	±	STD	MEAN	±	STD
Calcium	%dm	0.282	±	0.023	0.258	±	0.024	0.259	±	0.026
Phosphorus	%dm	0.626	±	0.053	0.618	±	0.062	0.620	±	0.065
Potassium	%dm	1.93	±	0.08	1.85	±	0.08	1.85	±	0.09
Magnesium	%dm	0.241	±	0.010	0.226	±	0.012	0.226	±	0.010
Sodium	%dm	0.012	±	0.003	0.015	±	0.007	0.016	±	0.008
Iron	mg/kg dm	93.3	±	41.8	82.6	±	13.3	84.1	±	18.9

A summary of the statistical analysis is given in the following chart. P-values of the regimen effects and the regimen*site interactions are listed together with the p-values from the individual regimen comparisons (only in cases of no interactions and significant regimen effects). For details see Table 2b in Appendix A.

Parameter	p-value ANOVA		p-value t-test *)	
	regimen effect	regimen*site interaction	A vs B	A vs C
Calcium	<.001	0.058	<.001	<.001
Phosphorus	0.490	0.151		
Potassium	NA	0.006		
Magnesium	<.001	0.065	<.001	<.001
Sodium	0.010	0.279	0.019	0.004
Iron	0.127	0.303		

*) only in cases of no interactions (p>0.05) and significant regimen effects (p<0.05)

NA: not applicable due to regimen*site interactions

Significant regimen effects were seen for calcium, magnesium and sodium (A vs B and A vs C). Due to significant regimen*site interactions an overall analysis is not valid for potassium. A summary of the by site analyses for this mineral is given in the following chart. It can be seen that the majority of the by site analyses did not show significant differences between regimen A and B; the results for the comparison of A and C were ambiguous.

Summary t-test procedures *)	A vs B		A vs C	
	significant	not significant	significant	not significant
Potassium	4	6	5	5

*) N of sites with significant (p < 0.05) and not significant (p ≥ 0.05) regimen differences

3.3 Vitamins

(Tables 1c, 2c and 3 in Appendix A)

In the following chart mean values and standard deviations over all sites are presented for each regimen separately:

Parameter	Unit	A	B	C
		MEAN ± STD	MEAN ± STD	MEAN ± STD
Vitamin B1	mg/kg dm	3.59 ± 0.76	3.44 ± 0.95	3.16 ± 0.91
Vitamin B2	mg/kg dm	4.42 ± 0.88	4.52 ± 0.89	4.80 ± 0.84
Folic Acid	mg/kg dm	2.976 ± 0.353	3.068 ± 0.300	3.122 ± 0.344
Vitamin A	mg/kg dm	0.217 ± 0.047	0.261 ± 0.112	0.284 ± 0.117
Vitamin K	mg/kg dm	0.191 ± 0.069	0.203 ± 0.078	0.215 ± 0.087
Alpha Tocopherol	mg/kg dm	17.4 ± 3.9	19.0 ± 5.1	20.7 ± 5.8
Gamma Tocopherol	mg/kg dm	195 ± 16	200 ± 14	198 ± 11
Delta Tocopherol	mg/kg dm	74.1 ± 7.4	75.2 ± 8.3	74.0 ± 11.1
Total Tocopherols	mg/kg dm	286 ± 16	294 ± 14	293 ± 13

A summary of the statistical analysis is given in the following chart. P-values of the regimen effects and the regimen*site interactions are listed together with the p-values from the individual regimen comparisons (only in cases of no interactions and significant regimen effects). For details see Table 2c in Appendix A.

Parameter	p-value ANOVA		p-value t-test *)	
	regimen effect	regimen*site interaction	A vs B	A vs C
Vitamin B1	0.009	0.072	0.279	0.003
Vitamin B2	0.253	0.956		
Folic Acid	0.117	0.491		
Vitamin A	NA	<.001		
Vitamin K	NA	0.030		
Alpha Tocopherol	NA	0.003		
Gamma Tocopherol	0.038	0.076	0.011	0.132
Delta Tocopherol	NA	0.014		
Total Tocopherols	0.017	0.130	0.007	0.031

*) only in cases of no interactions (p>0.05) and significant regimen effects (p<0.05)

NA: not applicable due to regimen*site interactions

Significant regimen effects were seen for vitamin B1 (A vs C), gamma tocopherol (A vs B) and total tocopherol (A vs B and A vs C). Due to significant regimen*site interactions an overall analysis is not valid for vitamin A, vitamin K, alpha tocopherol and delta tocopherol. Since the outcomes of the t-tests (A vs B and A vs C) were ambiguous for vitamin B1 and gamma tocopherol, the by-site analyses were taken into account. A summary of the by site analyses for these vitamins is given in the following chart. It can be seen that the majority of the by site analyses did not show significant differences between regimen A and B and between A and C.

Summary t-test procedures *)	A vs B		A vs C	
	significant	not significant	significant	not significant
Vitamin B1	1	9	1	9
Vitamin A #)	3	2 (5)	4	1 (5)
Vitamin K	1	9	1	9
Alpha Tocopherol	2	8	3	7
Gamma Tocopherol	1	9	2	8
Delta Tocopherol	1	9	4	6

*) N of sites with significant (p < 0.05) and not significant (p ≥ 0.05) regimen differences

#) 'not significant' was also assumed if all samples of a site were equal or below the limit of quantification for the two respective regimen (N of sites in brackets)

3.4 Anti-nutrients

(Tables 1d and 2d in Appendix A)

In the following chart mean values and standard deviations over all sites are presented for each regimen separately:

Parameter	Unit	A	B	C
		MEAN \pm STD	MEAN \pm STD	MEAN \pm STD
Phytic Acid	%dm	1.40 \pm 0.16	1.37 \pm 0.23	1.35 \pm 0.23
Raffinose	%dm	0.361 \pm 0.036	0.378 \pm 0.053	0.379 \pm 0.058
Stachyose	%dm	2.49 \pm 0.24	2.42 \pm 0.18	2.50 \pm 0.19
Lectin	HU/mg	1.74 \pm 0.60	1.40 \pm 0.50	1.54 \pm 0.42
Trypsin Inhibitor	TIU/mg	33.0 \pm 6.6	30.1 \pm 6.1	33.9 \pm 5.7

A summary of the statistical analysis is presented in the following chart. P-values of the regimen effects and the regimen*site interactions are listed together with the p-values from the individual regimen comparisons (only in cases of no interactions and significant regimen effects). For details see Table 2d in Appendix A.

Parameter	p-value ANOVA		p-value t-test *)	
	regimen effect	regimen*site interaction	A vs B	A vs C
Phytic Acid	0.140	0.122		
Raffinose	0.035	0.106	0.027	0.022
Stachyose	0.272	0.915		
Lectin	0.054	0.836		
Trypsin inhibitor	0.041	0.879	0.061	0.564

*) only in cases of no interactions ($p > 0.05$) and significant regimen effects ($p < 0.05$)

Significant regimen differences were seen for raffinose (A vs B and A vs C). Despite of significant regimen effect for the trypsin inhibitor, regimen differences were not detected between regimen A and B and between regimen A and C.

3.5 Isoflavones

(Tables 1e, 2e and 3 in Appendix A)

In the following chart mean values and standard deviations over all sites are presented for each regimen separately:

Parameter	Unit	A			B			C		
		MEAN	±	STD	MEAN	±	STD	MEAN	±	STD
Daidzein	mg/kg dm	11.0	±	2.0	10.6	±	1.4	10.3	±	1.0
Genistein	mg/kg dm	11.5	±	2.1	11.2	±	1.8	10.5	±	0.8
Daidzin	mg/kg dm	1035	±	350	1034	±	356	994	±	357
Glycitin	mg/kg dm	365	±	39	414	±	43	400	±	56
Genistin	mg/kg dm	1817	±	482	1682	±	465	1640	±	446
Total Isoflavones	mg/kg dm	2010	±	522	1953	±	507	1891	±	488

A summary of the statistical analysis is presented in the following chart. P-values of the regimen effects and the regimen*site interactions are listed together with the p-values from the individual regimen comparisons (only in cases of no interactions and significant regimen effects). For details see Table 2e in Appendix A.

Parameter	p-value ANOVA		p-value t-test *)	
	regimen effect	regimen*site interaction	A vs B	A vs C
Daidzein	0.155	0.292		
Genistein	NA	0.010		
Daidzin	0.320	0.562		
Glycitin	<.001	0.887	<.001	<.001
Genistin	<.001	0.812	<.001	<.001
Total Isoflavones	0.030	0.816	0.201	0.008

*) only in cases of no interactions ($p > 0.05$) and significant regimen effects ($p < 0.05$)

NA: not applicable due to regimen*site interactions

Significant regimen differences were seen for glycitin, genistin (A vs B and A vs C) and total isoflavones (A vs C). Due to significant regimen*site interactions an overall analysis is not valid for genistein. Since different results were obtained in the t-tests (A vs B and A vs C) for total isoflavones, the analyses was repeated on a by-site basis. A summary of the by site analyses for genistein and total isoflavones is given in the following chart. It can be seen that the majority of the by site analyses did not show significant differences between regimen A and B and between A and C for these two parameters

Summary t-test procedures *)	A vs B		A vs C	
	significant	not significant	significant	not significant
Genistein #)	-	6 (4)	1	5 (4)
Total Isoflavones	1	9	2	8

*) N of sites with significant ($p < 0.05$) and not significant ($p \geq 0.05$) regimen differences

#) 'not significant' was also assumed if all samples of a site were equal or below the limit of quantification for the two respective regimen (N of sites in brackets)

3.6 Amino Acids

(Tables 1f, 2f and 3 in Appendix A)

In the following chart mean values and standard deviations over all sites are presented for each regimen separately:

Parameter	Unit	A	B	C
		MEAN ± STD	MEAN ± STD	MEAN ± STD
Alanine	%dm	1.68 ± 0.04	1.68 ± 0.04	1.68 ± 0.04
Arginine	%dm	2.94 ± 0.10	2.97 ± 0.10	2.95 ± 0.10
Aspartic acid	%dm	4.40 ± 0.12	4.38 ± 0.12	4.37 ± 0.13
Cystine	%dm	0.58 ± 0.03	0.58 ± 0.02	0.59 ± 0.03
Glutamic acid	%dm	6.75 ± 0.21	6.77 ± 0.23	6.74 ± 0.22
Glycine	%dm	1.68 ± 0.04	1.68 ± 0.04	1.68 ± 0.04
Histidine	%dm	1.05 ± 0.03	1.05 ± 0.03	1.05 ± 0.03
Isoleucine	%dm	1.81 ± 0.05	1.80 ± 0.05	1.79 ± 0.05
Leucine	%dm	2.99 ± 0.08	2.99 ± 0.08	2.98 ± 0.08
Lysine	%dm	2.48 ± 0.05	2.48 ± 0.06	2.47 ± 0.06
Methionine	%dm	0.54 ± 0.02	0.54 ± 0.02	0.54 ± 0.02
Phenylalanine	%dm	1.97 ± 0.05	1.98 ± 0.06	1.96 ± 0.06
Proline	%dm	1.82 ± 0.07	1.83 ± 0.07	1.82 ± 0.07
Serine	%dm	1.97 ± 0.07	1.98 ± 0.08	1.99 ± 0.06
Threonine	%dm	1.55 ± 0.04	1.54 ± 0.04	1.53 ± 0.04
Tryptophan	%dm	0.45 ± 0.03	0.44 ± 0.03	0.44 ± 0.03
Tyrosine	%dm	1.40 ± 0.04	1.40 ± 0.04	1.40 ± 0.04
Valine	%dm	1.89 ± 0.06	1.88 ± 0.05	1.87 ± 0.06

A summary of the statistical analysis is presented in the following chart. P-values of the regimen effects and the regimen*site interactions are listed together with the p-values from the individual regimen comparisons (only in cases of no interactions and significant regimen effects). For details see Table 2f in Appendix A.

Parameter	p-value ANOVA		p-value t-test *)	
	regimen effect	regimen*site interaction	A vs B	A vs C
Alanine	0.901	0.644		
Arginine	0.344	0.487		
Aspartic acid	0.555	0.450		
Cystine	0.476	0.245		
Glutamic acid	0.812	0.409		
Glycine	0.960	0.575		
Histidine	0.963	0.720		
Isoleucine	0.379	0.977		
Leucine	0.671	0.575		
Lysine	0.943	0.731		
Methionine	0.916	0.461		
Phenylalanine	0.264	0.603		
Proline	0.753	0.291		
Serine	NA	0.047		
Threonine	0.254	0.156		
Tryptophan	0.119	0.445		
Tyrosine	0.582	0.225		
Valine	0.609	0.861		

*) only in cases of no interactions (p>0.05) and significant regimen effects (p<0.05)

NA: not applicable due to regimen*site interactions

Significant regimen effects were not seen for any of the amino acids. Due to significant regimen*site interactions an overall analysis is not valid for serine. A summary of the by site analyses for serine is given in the following chart. It can be seen that the majority of the by site analyses did not show significant differences between regimen A and B and between A and C.

Summary t-test procedures *)	A vs B		A vs C	
	significant	not significant	significant	not significant
Serine	3	7	-	10

*) N of sites with significant ($p < 0.05$) and not significant ($p \geq 0.05$) regimen differences

3.7 Fatty Acids

(Tables 1g, 2g and 3 in Appendix A)

In the following chart mean values and standard deviations over all sites are presented for each regimen separately:

Parameter	Unit	A			B			C		
		MEAN	±	STD	MEAN	±	STD	MEAN	±	STD
C16:0 Palmitic	%rel	10.06	±	0.22	9.34	±	0.17	9.38	±	0.23
C18:0 Stearic	%rel	4.28	±	0.16	4.52	±	0.19	4.51	±	0.23
C18:1 Oleic	%rel	21.97	±	1.05	24.65	±	0.99	24.12	±	0.90
C18:2 Linoleic	%rel	54.56	±	0.90	52.65	±	0.95	53.08	±	0.82
C18:3 Linolenic	%rel	8.27	±	0.50	7.94	±	0.45	8.01	±	0.48
C20:0 Arachidic	%rel	0.312	±	0.015	0.324	±	0.017	0.324	±	0.019
C20:1 Gadoleic	%rel	0.161	±	0.011	0.165	±	0.019	0.166	±	0.012
C22:0 Behenic	%rel	0.319	±	0.009	0.339	±	0.012	0.327	±	0.017
C24:0 Lignoceric	%rel	0.113	±	0.020	0.119	±	0.022	0.122	±	0.025

A summary of the statistical analysis is presented in the following chart. P-values of the regimen effects and the regimen*site interactions are listed together with the p-values from the individual regimen comparisons (only in cases of no interactions and significant regimen effects). For details see Table 2g in Appendix A.

Parameter	p-value ANOVA		p-value t-test *)	
	regimen effect	regimen*site interaction	A vs B	A vs C
C16:0 Palmitic	<.001	0.376	<.001	<.001
C18:0 Stearic	<.001	0.358	<.001	<.001
C18:1 Oleic	<.001	0.153	<.001	<.001
C18:2 Linoleic	<.001	0.230	<.001	<.001
C18:3 Linolenic	<.001	0.608	<.001	<.001
C20:0 Arachidic	<.001	0.067	<.001	<.001
C20:1 Eicosenoic	0.003	0.454	0.017	<.001
C22:0 Behenic	0.001	0.462	<.001	0.016
C24:0 Lignoceric	NA	0.033		

*) only in cases of no interactions ($p > 0.05$) and significant regimen effects ($p < 0.05$)

NA: not applicable due to regimen*site interactions

Significant regimen effects were seen for all of the fatty acids. But mean differences between the regimen were less than 0.1 %rel for the fatty acids C20:0, C20:1 and C22:0.

Only for C24:0 an overall analysis is not valid due to significant regimen*site interactions. A summary of the by site analyses for this fatty acid is given in the following chart. It can be seen that the majority of the by site analyses did not show significant differences between the regimen.

Summary t-test procedures *)	A vs B		A vs C	
	significant	not significant	significant	not significant
C24:0 Lignoceric	2	8	1	9

*) N of sites with significant ($p < 0.05$) and not significant ($p \geq 0.05$) regimen differences

3.8 Commercial Lines

(Tables 1a to 1g in Appendix A)

In the following charts mean values, standard deviations minimum and maximum over all sites are presented for the three commercial lines D, E and F separately:

Proximate and fibre compounds:

Parameter	Regimen	MEAN	STD	Minimum	Maximum
Moisture [%fw]	D	9.59	0.66	8.00	10.40
	E	9.43	0.68	8.42	10.60
	F	9.97	0.56	8.96	10.60
Protein [%dm]	D	37.8	1.4	35.8	40.1
	E	37.5	1.0	36.3	39.1
	F	38.7	1.0	36.5	40.1
Total fat [%dm]	D	20.0	1.2	17.6	21.4
	E	20.1	0.7	18.9	21.2
	F	17.3	1.3	15.1	19.2
Ash [%dm]	D	5.19	0.25	4.89	5.70
	E	5.34	0.23	4.98	5.73
	F	5.26	0.21	4.91	5.60
Carbohydrate [%dm]	D	37.0	1.9	34.8	40.8
	E	37.0	0.9	35.7	38.9
	F	38.8	1.9	36.2	41.6
Acid Detergent Fibre [%dm]	D	17.8	1.6	16.1	21.6
	E	16.9	2.7	13.6	23.5
	F	17.5	2.0	15.0	21.1
Neutral Detergent Fibre [%dm]	D	19.9	2.1	17.0	23.3
	E	19.2	2.6	16.1	24.8
	F	19.6	1.9	16.8	22.3

Minerals:

Parameter	Regimen	MEAN	STD	Minimum	Maximum
Calcium [%dm]	D	0.301	0.024	0.267	0.347
	E	0.260	0.030	0.212	0.317
	F	0.263	0.023	0.233	0.315
Phosphorus [%dm]	D	0.582	0.039	0.524	0.650
	E	0.587	0.032	0.549	0.651
	F	0.572	0.038	0.499	0.617
Potassium [%dm]	D	1.90	0.06	1.84	2.00
	E	1.99	0.06	1.91	2.11
	F	1.99	0.07	1.88	2.09
Magnesium [%dm]	D	0.248	0.010	0.232	0.261
	E	0.244	0.013	0.224	0.263
	F	0.215	0.009	0.197	0.228
Sodium [mg/kg dm] *)	D	0.012	0.005	< LOQ	0.026
	E	0.015	0.007	< LOQ	0.026
	F	0.012	0.003	< LOQ	0.021
Iron [mg/kg dm]	D	81.2	33.3	64.3	175.0
	E	81.9	29.6	58.8	163.0
	F	68.4	4.4	63.0	77.4

*) For calculations values <LOQ (0.01 %fw) were substituted with 0.01 %dm

Vitamins:

Parameter	Regimen	MEAN	STD	Minimum	Maximum
Vitamin B1 [mg/kg dm]	D	3.43	0.73	2.10	4.70
	E	2.73	0.51	1.60	3.10
	F	2.55	0.48	1.80	3.20
Vitamin B2 [mg/kg dm]	D	4.13	0.74	3.36	5.87
	E	4.55	0.84	3.77	6.38
	F	4.45	0.78	3.59	5.79
Folic Acid [mg/kg dm]	D	3.219	0.447	2.190	3.780
	E	3.373	0.261	2.860	3.760
	F	3.654	0.411	3.040	4.330
Vitamin A [mg/kg dm] *)	D				< LOQ
	E				< LOQ
	F				< LOQ
Vitamin K [mg/kg dm] **)	D	0.158	0.046	< LOQ	0.247
	E	0.149	0.052	< LOQ	0.229
	F	0.168	0.063	< LOQ	0.263
Alpha Tocopherol [mg/kg dm]	D	16.4	3.6	12.2	23.7
	E	18.7	3.3	15.0	24.9
	F	17.0	2.3	12.9	20.0
Beta Tocopherol [mg/kg dm] ***)	D				< LOQ
	E				< LOQ
	F				< LOQ
Gamma Tocopherol [mg/kg dm]	D	174	11	156	186
	E	188	20	164	237
	F	173	13	153	189
Delta Tocopherol [mg/kg dm]	D	76.2	9.5	63.6	96.1
	E	81.8	8.4	71.7	99.2
	F	50.3	5.6	41.5	60.0
Total Tocopherol [mg/kg dm]	D	267	15	237	285
	E	289	25	252	346
	F	240	12	225	257

*) LOQ = 0.20 mg/kg fw

**) For calculations values <LOQ (0.10 %fw) were substituted with 0.10 %dm

***) LOQ = 5.0 mg/kg fw

Anti-nutrients:

Parameter	Regimen	MEAN	STD	Minimum	Maximum
Phytic Acid [%dm]	D	1.26	0.19	0.96	1.50
	E	1.26	0.12	1.10	1.48
	F	1.21	0.14	0.98	1.42
Raffinose [%dm]	D	0.410	0.054	0.332	0.501
	E	0.406	0.056	0.339	0.504
	F	0.349	0.029	0.290	0.395
Stachyose [%dm]	D	2.66	0.20	2.32	2.96
	E	2.57	0.19	2.23	2.80
	F	2.46	0.20	2.23	2.76
Lectin [H.U./mg]	D	2.57	2.15	1.46	8.63
	E	1.18	0.20	0.90	1.48
	F	0.97	0.42	0.46	1.94
Trypsin Inhibitor [TIU/mg]	D	39.0	9.2	29.5	60.1
	E	34.9	7.3	24.6	49.5
	F	30.4	5.4	23.5	38.4

Isoflavones:

Parameter	Regimen	MEAN	STD	Minimum	Maximum
Daidzein [mg/kg dm] *)	D	10.4	1.3	< LOQ	14.0
	E	10.6	0.9	< LOQ	12.5
	F	10.7	1.3	< LOQ	14.0
Glycitein [mg/kg dm] *)	D				< LOQ
	E				< LOQ
	F				< LOQ
Genistein [mg/kg dm] *)	D	12.0	3.6	< LOQ	20.6
	E				< LOQ
	F				< LOQ
Daidzin [mg/kg dm]	D	1085	300	568	1570
	E	1213	360	736	1890
	F	1831	447	1080	2530
Glycitin [mg/kg dm]	D	173	20	142	204
	E	276	23	246	315
	F	218	16	192	241
Genistin [mg/kg dm]	D	2294	602	1130	3290
	E	2131	536	1300	2980
	F	2098	436	1250	2760
Total Isoflavones [mg/kg dm]	D	2215	569	1160	3170
	E	2252	548	1450	3170
	F	2570	541	1590	3390

*) For calculations values <LOQ (10 mg/kg fw) were substituted with 10 mg/kg dm

Amino Acids:

Parameter	Regimen	MEAN	STD	Minimum	Maximum
Alanine [%dm]	D	1.69	0.05	1.63	1.78
	E	1.64	0.05	1.55	1.73
	F	1.67	0.05	1.57	1.74
Arginine [%dm]	D	2.93	0.11	2.82	3.12
	E	2.92	0.14	2.69	3.13
	F	2.97	0.08	2.79	3.04
Aspartic acid [%dm]	D	4.39	0.15	4.24	4.67
	E	4.27	0.15	4.06	4.55
	F	4.37	0.13	4.09	4.52
Cystine [%dm]	D	0.59	0.02	0.58	0.63
	E	0.56	0.03	0.50	0.58
	F	0.57	0.01	0.55	0.59
Glutamic acid [%dm]	D	6.79	0.27	6.53	7.23
	E	6.76	0.26	6.32	7.22
	F	6.91	0.23	6.39	7.14
Glycine [%dm]	D	1.66	0.06	1.60	1.76
	E	1.61	0.05	1.53	1.70
	F	1.67	0.05	1.57	1.74
Histidine [%dm]	D	1.01	0.03	0.98	1.07
	E	1.00	0.04	0.93	1.06
	F	1.02	0.03	0.97	1.05
Isoleucine [%dm]	D	1.81	0.08	1.70	1.96
	E	1.75	0.08	1.62	1.89
	F	1.76	0.08	1.64	1.88
Leucine [%dm]	D	2.97	0.09	2.87	3.13
	E	2.88	0.10	2.71	3.06
	F	2.94	0.08	2.75	3.03
Lysine [%dm]	D	2.50	0.07	2.41	2.64
	E	2.46	0.09	2.34	2.62
	F	2.49	0.06	2.38	2.57
Methionine [%dm]	D	0.56	0.01	0.54	0.57
	E	0.54	0.02	0.50	0.56
	F	0.55	0.01	0.54	0.58
Phenylalanine [%dm]	D	1.94	0.06	1.88	2.04
	E	1.92	0.08	1.83	2.08
	F	1.94	0.05	1.85	2.00
Proline [%dm]	D	1.84	0.07	1.73	1.94
	E	1.78	0.05	1.71	1.87
	F	1.86	0.06	1.73	1.93
Serine [%dm]	D	1.97	0.06	1.90	2.13
	E	1.91	0.08	1.77	2.01
	F	1.96	0.04	1.87	2.02
Threonine [%dm]	D	1.55	0.03	1.52	1.62
	E	1.50	0.05	1.44	1.60
	F	1.53	0.03	1.49	1.60
Tryptophan [%dm]	D	0.48	0.03	0.43	0.54
	E	0.44	0.03	0.39	0.49
	F	0.46	0.03	0.43	0.51
Tyrosine [%dm]	D	1.40	0.04	1.36	1.48
	E	1.37	0.04	1.32	1.44
	F	1.39	0.03	1.33	1.42
Valine [%dm]	D	1.87	0.09	1.76	2.03
	E	1.83	0.09	1.66	1.96
	F	1.84	0.09	1.71	1.98

Fatty Acids:

Parameter	Regimen	MEAN	STD	Minimum	Maximum
C16:0 Palmitic [%rel]	D	10.39	0.17	10.10	10.70
	E	9.90	0.10	9.78	10.10
	F	11.10	0.16	10.90	11.40
C18:0 Stearic [%rel]	D	3.79	0.22	3.49	4.26
	E	4.43	0.21	4.19	4.81
	F	4.17	0.20	3.96	4.57
C18:1 Oleic [%rel]	D	22.21	0.89	21.10	24.10
	E	22.53	0.94	21.20	24.10
	F	22.53	0.80	21.30	23.50
C18:2 Linoleic [%rel]	D	54.48	0.69	53.00	55.40
	E	53.29	0.68	51.80	54.10
	F	52.33	0.48	51.50	52.90
C18:3 Linolenic [%rel]	D	8.34	0.56	7.59	9.34
	E	8.97	0.64	8.25	9.80
	F	9.09	0.72	8.34	10.30
C20:0 Arachidic [%rel]	D	0.268	0.016	0.252	0.307
	E	0.318	0.019	0.298	0.353
	F	0.316	0.020	0.281	0.349
C20:1 Eicosenoic [%rel]	D	0.159	0.011	0.145	0.177
	E	0.158	0.009	0.145	0.173
	F	0.161	0.023	<LOQ	0.178
C22:0 Behenic [%rel]	D	0.270	0.010	0.254	0.286
	E	0.316	0.012	0.298	0.332
	F	0.331	0.012	0.309	0.352
C24:0 Lignoceric [%rel]	D	0.116	0.021	<LOQ	0.145
	E	0.114	0.015	<LOQ	0.137
	F				<LOQ

*) For calculations values <LOQ (0.02 %fw) were substituted with 0.10 %rel

4. References

- [1] Hartung, J. et al: Statistik – Lehr- und Handbuch der angewandten Statistik
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ANALYSIS OF SUBSTANTIAL EQUIVALENCE OF DOUBLE-HERBICIDE-TOLERANT SOYBEAN

BY MEANS OF T-TEST FOR DIFFERENCES

DOUBLE-HERBICIDE-TOLERANT SOYBEAN (Transformation Event FG72)

vs

Non-transgenic Counterpart (Jack)

Studies: HT08SOY (field trials 2008)

A P P E N D I X A

TABLES

Version 3

Table 1	Descriptive statistics a: Proximate and Fibre Compounds b: Minerals c: Vitamins d: Anti-nutrients e: Isoflavones f: Amino Acids g: Fatty Acids
Table 2	Results from ANOVA a: Proximate and Fibre Compounds b: Minerals c: Vitamins d: Anti-nutrients e: Isoflavones f: Amino Acids g: Fatty Acids
Table 3	Analysis of differences - details by site (only in case of significant regimen*site interactions in the overall analysis)

Table 1a: Descriptive Statistics
- Proximate and Fibre Compounds

Parameter=Moisture [%fw]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	10.09	0.22	3	9.86	10.30
	B	10.12	0.27	3	9.86	10.40
	C	10.20	0.20	3	10.00	10.40
202	A	9.19	2.27	3	6.57	10.50
	B	11.20	0.30	3	10.90	11.50
	C	9.30	2.43	3	6.51	10.90
203	A	9.88	0.13	3	9.73	9.99
	B	9.91	0.09	3	9.83	10.00
	C	9.97	0.28	3	9.79	10.30
204	A	9.64	0.24	3	9.40	9.87
	B	9.11	0.24	3	8.89	9.36
	C	9.45	0.27	3	9.15	9.66
205	A	9.17	0.32	3	8.80	9.37
	B	9.56	0.27	3	9.32	9.86
	C	9.14	0.25	3	8.94	9.42
206	A	10.08	0.14	3	9.93	10.20
	B	9.99	0.37	3	9.58	10.30
	C	9.53	0.26	3	9.37	9.83
207	A	9.40	0.14	3	9.26	9.53
	B	9.61	0.19	3	9.41	9.79
	C	9.26	0.18	3	9.10	9.45
208	A	10.11	0.24	3	9.84	10.30
	B	10.07	0.23	3	9.80	10.20
	C	9.78	0.39	3	9.33	10.00
209	A	8.38	0.24	3	8.11	8.57
	B	8.11	0.19	3	7.90	8.26
	C	8.39	0.25	3	8.11	8.57
210	A	9.20	0.09	3	9.11	9.29
	B	8.79	0.14	3	8.65	8.93
	C	9.52	0.30	3	9.18	9.71
ALL	A	9.51	0.82	30	6.57	10.50
	B	9.65	0.84	30	7.90	11.50
	C	9.45	0.83	30	6.51	10.90
	D	9.59	0.66	10	8.00	10.40
	E	9.43	0.68	10	8.42	10.60
	F	9.97	0.56	10	8.96	10.60

Table 1a: Descriptive Statistics
- Proximate and Fibre Compounds (cont.)

Parameter=Protein [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	38.2	0.3	3	37.8	38.4
	B	38.5	0.3	3	38.3	38.8
	C	38.3	0.1	3	38.2	38.4
202	A	38.5	0.3	3	38.3	38.9
	B	39.4	0.5	3	38.9	39.8
	C	38.3	1.5	3	36.7	39.6
203	A	37.6	0.2	3	37.4	37.7
	B	38.4	0.3	3	38.1	38.7
	C	38.4	0.4	3	38.0	38.7
204	A	37.0	0.2	3	36.9	37.3
	B	37.1	0.1	3	37.1	37.2
	C	37.1	0.6	3	36.5	37.7
205	A	37.6	0.3	3	37.3	37.9
	B	38.2	1.1	3	36.9	39.0
	C	37.8	0.1	3	37.7	37.9
206	A	39.9	0.4	3	39.5	40.3
	B	39.1	0.5	3	38.7	39.7
	C	39.1	0.5	3	38.7	39.6
207	A	36.8	0.5	3	36.2	37.2
	B	37.4	0.6	3	36.8	37.9
	C	36.9	0.4	3	36.6	37.4
208	A	39.0	1.4	3	37.4	40.0
	B	37.9	0.5	3	37.5	38.4
	C	38.1	1.3	3	36.8	39.3
209	A	39.0	0.6	3	38.3	39.3
	B	38.4	0.2	3	38.3	38.7
	C	38.7	0.9	3	37.7	39.4
210	A	37.9	0.6	3	37.2	38.4
	B	37.6	0.4	3	37.2	37.9
	C	38.2	0.8	3	37.3	38.9
ALL	A	38.2	1.1	30	36.2	40.3
	B	38.2	0.8	30	36.8	39.8
	C	38.1	0.9	30	36.5	39.6
	D	37.8	1.4	10	35.8	40.1
	E	37.5	1.0	10	36.3	39.1
	F	38.7	1.0	10	36.5	40.1

Table 1a: Descriptive Statistics
- Proximate and Fibre Compounds (cont.)

Parameter=Total Fat [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	18.9	0.2	3	18.7	19.0
	B	18.2	0.7	3	17.4	18.7
	C	18.3	1.1	3	17.1	19.2
202	A	18.5	0.6	3	17.9	19.0
	B	18.1	0.4	3	17.7	18.5
	C	19.6	1.4	3	18.7	21.2
203	A	18.5	0.4	3	18.2	18.9
	B	18.9	0.9	3	17.8	19.6
	C	19.3	0.3	3	19.1	19.6
204	A	19.5	0.8	3	19.0	20.4
	B	19.1	0.7	3	18.3	19.6
	C	18.4	0.9	3	17.5	19.3
205	A	19.7	0.2	3	19.6	19.9
	B	18.0	1.2	3	16.6	19.0
	C	19.1	0.9	3	18.4	20.1
206	A	18.6	0.7	3	18.0	19.4
	B	16.9	0.3	3	16.6	17.2
	C	18.1	0.9	3	17.4	19.1
207	A	20.7	0.9	3	19.7	21.4
	B	20.0	1.1	3	18.9	21.0
	C	20.0	1.4	3	18.4	21.0
208	A	19.9	0.6	3	19.5	20.6
	B	20.0	0.9	3	19.2	21.0
	C	20.6	1.0	3	19.7	21.6
209	A	20.0	0.9	3	19.0	20.7
	B	19.9	0.3	3	19.7	20.2
	C	19.3	0.6	3	18.6	19.8
210	A	18.9	0.6	3	18.4	19.5
	B	19.6	0.6	3	19.0	20.2
	C	19.8	0.7	3	19.3	20.6
ALL	A	19.3	0.9	30	17.9	21.4
	B	18.9	1.2	30	16.6	21.0
	C	19.2	1.1	30	17.1	21.6
	D	20.0	1.2	10	17.6	21.4
	E	20.1	0.7	10	18.9	21.2
	F	17.3	1.3	10	15.1	19.2

Table 1a: Descriptive Statistics
- Proximate and Fibre Compounds (cont.)

Parameter=Ash [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	4.69	0.35	3	4.38	5.07
	B	4.41	0.23	3	4.17	4.63
	C	4.56	0.05	3	4.50	4.59
202	A	5.10	0.25	3	4.84	5.34
	B	4.99	0.11	3	4.91	5.11
	C	4.89	0.14	3	4.76	5.04
203	A	5.30	0.14	3	5.13	5.39
	B	5.40	0.20	3	5.17	5.56
	C	5.46	0.13	3	5.37	5.60
204	A	5.33	0.09	3	5.27	5.43
	B	5.25	0.12	3	5.15	5.38
	C	5.17	0.09	3	5.08	5.26
205	A	5.36	0.22	3	5.17	5.60
	B	5.13	0.21	3	4.97	5.37
	C	5.31	0.07	3	5.23	5.35
206	A	5.43	0.23	3	5.27	5.69
	B	5.14	0.19	3	4.97	5.35
	C	4.99	0.08	3	4.92	5.08
207	A	5.17	0.03	3	5.15	5.20
	B	5.08	0.16	3	4.91	5.23
	C	4.96	0.10	3	4.86	5.06
208	A	5.19	0.12	3	5.12	5.33
	B	5.04	0.11	3	4.92	5.14
	C	4.88	0.23	3	4.70	5.14
209	A	5.66	0.43	3	5.22	6.07
	B	5.30	0.23	3	5.14	5.56
	C	5.25	0.39	3	4.91	5.68
210	A	5.18	0.02	3	5.17	5.20
	B	4.99	0.10	3	4.87	5.05
	C	5.13	0.06	3	5.06	5.18
ALL	A	5.24	0.31	30	4.38	6.07
	B	5.07	0.30	30	4.17	5.56
	C	5.06	0.28	30	4.50	5.68
	D	5.19	0.25	10	4.89	5.70
	E	5.34	0.23	10	4.98	5.73
	F	5.26	0.21	10	4.91	5.60

Table 1a: Descriptive Statistics
- Proximate and Fibre Compounds (cont.)

Parameter=Carbohydrates [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	38.4	0.6	3	37.7	38.7
	B	38.8	0.9	3	38.0	39.7
	C	38.9	1.0	3	38.0	39.9
202	A	37.8	0.6	3	37.3	38.4
	B	37.6	0.0	3	37.6	37.6
	C	37.3	0.5	3	36.8	37.7
203	A	38.6	0.3	3	38.2	38.8
	B	37.3	0.8	3	36.5	38.0
	C	36.8	0.1	3	36.7	36.9
204	A	38.1	0.9	3	37.1	38.7
	B	38.5	0.8	3	37.8	39.4
	C	39.4	0.9	3	38.4	40.0
205	A	37.3	0.5	3	36.7	37.6
	B	38.7	1.2	3	37.4	39.5
	C	37.8	0.9	3	36.8	38.4
206	A	36.1	0.2	3	35.9	36.3
	B	38.8	0.7	3	38.1	39.4
	C	37.8	1.3	3	36.3	38.7
207	A	37.4	0.8	3	36.5	37.9
	B	37.6	0.9	3	36.9	38.6
	C	38.1	1.0	3	37.3	39.2
208	A	35.9	0.8	3	35.2	36.8
	B	37.1	1.1	3	36.1	38.2
	C	36.5	0.2	3	36.2	36.6
209	A	35.4	1.0	3	34.3	36.3
	B	36.4	0.7	3	35.6	36.8
	C	36.7	0.8	3	35.8	37.3
210	A	38.0	1.1	3	37.2	39.3
	B	37.8	0.3	3	37.6	38.2
	C	36.8	1.5	3	35.3	38.2
ALL	A	37.3	1.2	30	34.3	39.3
	B	37.9	1.0	30	35.6	39.7
	C	37.6	1.2	30	35.3	40.0
	D	37.0	1.9	10	34.8	40.8
	E	37.0	0.9	10	35.7	38.9
	F	38.8	1.9	10	36.2	41.6

Table 1a: Descriptive Statistics
- Proximate and Fibre Compounds (cont.)

Parameter=Acid Detergent Fibre [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	17.1	1.3	3	16.2	18.5
	B	19.1	3.8	3	16.7	23.5
	C	16.3	1.0	3	15.2	16.9
202	A	16.0	3.0	3	14.2	19.4
	B	16.6	1.1	3	15.4	17.6
	C	17.0	1.3	3	15.6	18.1
203	A	18.7	1.2	3	17.3	19.5
	B	16.4	2.4	3	14.1	18.9
	C	16.5	0.2	3	16.4	16.7
204	A	18.6	2.0	3	16.5	20.5
	B	17.5	1.0	3	16.5	18.4
	C	19.0	0.4	3	18.7	19.5
205	A	17.4	0.4	3	17.0	17.8
	B	17.8	0.9	3	16.8	18.4
	C	17.7	2.0	3	15.4	19.3
206	A	16.9	1.1	3	15.8	17.9
	B	20.0	1.0	3	19.3	21.1
	C	18.7	2.5	3	16.0	21.0
207	A	18.2	1.2	3	16.8	19.0
	B	18.7	3.0	3	16.3	22.1
	C	18.2	2.4	3	16.7	21.0
208	A	17.1	1.1	3	15.8	18.0
	B	18.5	1.3	3	17.6	20.0
	C	17.6	0.8	3	16.7	18.1
209	A	17.4	2.1	3	15.4	19.6
	B	18.0	0.8	3	17.2	18.7
	C	20.0	1.2	3	19.3	21.4
210	A	20.5	2.3	3	17.9	22.4
	B	18.3	2.2	3	15.9	20.1
	C	18.1	2.5	3	16.5	21.0
ALL	A	17.8	1.9	30	14.2	22.4
	B	18.1	2.0	30	14.1	23.5
	C	17.9	1.8	30	15.2	21.4
	D	17.8	1.6	10	16.1	21.6
	E	16.9	2.7	10	13.6	23.5
	F	17.5	2.0	10	15.0	21.1

Table 1a: Descriptive Statistics
- Proximate and Fibre Compounds (cont.)

Parameter=Neutral Detergent Fibre [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	19.5	1.7	3	18.3	21.5
	B	21.6	3.4	3	19.0	25.4
	C	19.5	1.5	3	17.9	20.8
202	A	18.5	2.8	3	16.8	21.8
	B	17.7	0.2	3	17.5	17.8
	C	19.4	1.0	3	18.3	20.1
203	A	20.2	1.6	3	19.2	22.0
	B	18.8	2.3	3	16.9	21.4
	C	18.5	1.0	3	17.4	19.4
204	A	20.1	2.3	3	17.6	22.2
	B	20.6	0.2	3	20.4	20.8
	C	20.9	0.8	3	20.0	21.6
205	A	19.3	1.9	3	17.5	21.3
	B	20.0	0.9	3	19.4	21.0
	C	20.0	1.9	3	17.9	21.6
206	A	18.5	1.3	3	17.0	19.5
	B	22.4	1.5	3	21.1	24.0
	C	19.9	1.5	3	18.2	21.2
207	A	20.6	2.2	3	18.7	23.0
	B	20.9	3.2	3	18.6	24.6
	C	20.4	2.0	3	19.0	22.7
208	A	18.9	0.4	3	18.6	19.4
	B	19.9	1.4	3	18.8	21.4
	C	19.1	0.3	3	18.7	19.3
209	A	20.2	1.9	3	18.8	22.3
	B	21.0	1.4	3	19.4	22.0
	C	21.6	0.8	3	21.1	22.6
210	A	22.2	2.6	3	19.4	24.5
	B	20.7	1.3	3	19.2	21.8
	C	20.8	2.0	3	19.0	23.0
ALL	A	19.8	2.0	30	16.8	24.5
	B	20.3	2.1	30	16.9	25.4
	C	20.0	1.5	30	17.4	23.0
	D	19.9	2.1	10	17.0	23.3
	E	19.2	2.6	10	16.1	24.8
	F	19.6	1.9	10	16.8	22.3

Table 1b: Descriptive Statistics
- Minerals

Parameter=Calcium [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	0.26	0.01	3	0.25	0.27
	B	0.24	0.01	3	0.23	0.24
	C	0.23	0.00	3	0.23	0.23
202	A	0.25	0.01	3	0.24	0.25
	B	0.23	0.00	3	0.22	0.23
	C	0.21	0.01	3	0.21	0.22
203	A	0.28	0.01	3	0.27	0.28
	B	0.25	0.01	3	0.24	0.26
	C	0.25	0.00	3	0.25	0.26
204	A	0.29	0.00	3	0.29	0.29
	B	0.26	0.00	3	0.26	0.26
	C	0.27	0.01	3	0.26	0.29
205	A	0.29	0.01	3	0.28	0.30
	B	0.27	0.03	3	0.25	0.31
	C	0.26	0.01	3	0.26	0.27
206	A	0.29	0.02	3	0.27	0.30
	B	0.24	0.00	3	0.24	0.25
	C	0.25	0.00	3	0.25	0.25
207	A	0.30	0.01	3	0.29	0.31
	B	0.28	0.00	3	0.28	0.29
	C	0.27	0.01	3	0.26	0.28
208	A	0.27	0.01	3	0.27	0.28
	B	0.25	0.00	3	0.25	0.25
	C	0.25	0.01	3	0.24	0.26
209	A	0.28	0.01	3	0.27	0.29
	B	0.26	0.01	3	0.25	0.26
	C	0.28	0.01	3	0.27	0.28
210	A	0.33	0.00	3	0.32	0.33
	B	0.30	0.01	3	0.29	0.31
	C	0.31	0.00	3	0.31	0.31
ALL	A	0.28	0.02	30	0.24	0.33
	B	0.26	0.02	30	0.22	0.31
	C	0.26	0.03	30	0.21	0.31
	D	0.30	0.02	10	0.27	0.35
	E	0.26	0.03	10	0.21	0.32
	F	0.26	0.02	10	0.23	0.32

Table 1b: Descriptive Statistics
- Minerals (cont.)

Parameter=Phosphorus [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	0.519	0.037	3	0.489	0.561
	B	0.478	0.013	3	0.463	0.488
	C	0.485	0.041	3	0.451	0.531
202	A	0.624	0.037	3	0.584	0.658
	B	0.622	0.015	3	0.612	0.640
	C	0.621	0.034	3	0.584	0.650
203	A	0.698	0.008	3	0.693	0.707
	B	0.722	0.044	3	0.682	0.769
	C	0.736	0.032	3	0.699	0.757
204	A	0.681	0.021	3	0.659	0.700
	B	0.633	0.033	3	0.596	0.656
	C	0.623	0.009	3	0.613	0.630
205	A	0.667	0.010	3	0.660	0.678
	B	0.653	0.012	3	0.640	0.662
	C	0.662	0.019	3	0.640	0.673
206	A	0.643	0.007	3	0.638	0.651
	B	0.628	0.026	3	0.606	0.657
	C	0.626	0.022	3	0.607	0.650
207	A	0.607	0.019	3	0.586	0.624
	B	0.589	0.026	3	0.572	0.619
	C	0.599	0.010	3	0.588	0.607
208	A	0.606	0.017	3	0.589	0.623
	B	0.618	0.035	3	0.579	0.647
	C	0.590	0.046	3	0.560	0.643
209	A	0.601	0.020	3	0.588	0.624
	B	0.630	0.012	3	0.621	0.644
	C	0.612	0.012	3	0.605	0.625
210	A	0.610	0.030	3	0.590	0.645
	B	0.607	0.008	3	0.602	0.617
	C	0.647	0.024	3	0.620	0.665
ALL	A	0.626	0.053	30	0.489	0.707
	B	0.618	0.062	30	0.463	0.769
	C	0.620	0.065	30	0.451	0.757
	D	0.582	0.039	10	0.524	0.650
	E	0.587	0.032	10	0.549	0.651
	F	0.572	0.038	10	0.499	0.617

Table 1b: Descriptive Statistics
- Minerals (cont.)

Parameter=Potassium [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	1.80	0.04	3	1.76	1.83
	B	1.72	0.04	3	1.70	1.77
	C	1.71	0.01	3	1.70	1.72
202	A	1.90	0.05	3	1.84	1.94
	B	1.84	0.03	3	1.81	1.86
	C	1.85	0.04	3	1.81	1.89
203	A	1.95	0.05	3	1.90	1.99
	B	1.96	0.07	3	1.91	2.04
	C	1.98	0.07	3	1.90	2.03
204	A	2.01	0.03	3	1.98	2.03
	B	1.84	0.07	3	1.77	1.90
	C	1.79	0.06	3	1.75	1.85
205	A	2.03	0.04	3	1.99	2.06
	B	1.86	0.02	3	1.84	1.88
	C	1.93	0.09	3	1.82	1.99
206	A	1.96	0.03	3	1.94	2.00
	B	1.85	0.07	3	1.79	1.92
	C	1.87	0.08	3	1.79	1.95
207	A	1.96	0.04	3	1.92	1.99
	B	1.85	0.04	3	1.81	1.88
	C	1.87	0.06	3	1.80	1.91
208	A	1.91	0.03	3	1.87	1.93
	B	1.86	0.05	3	1.82	1.92
	C	1.76	0.09	3	1.69	1.86
209	A	1.94	0.02	3	1.92	1.95
	B	1.92	0.01	3	1.91	1.93
	C	1.88	0.04	3	1.85	1.92
210	A	1.84	0.06	3	1.79	1.91
	B	1.76	0.03	3	1.73	1.79
	C	1.85	0.03	3	1.83	1.89
ALL	A	1.93	0.08	30	1.76	2.06
	B	1.85	0.08	30	1.70	2.04
	C	1.85	0.09	30	1.69	2.03
	D	1.90	0.06	10	1.84	2.00
	E	1.99	0.06	10	1.91	2.11
	F	1.99	0.07	10	1.88	2.09

Table 1b: Descriptive Statistics
- Minerals (cont.)

Parameter=Magnesium [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	0.229	0.005	3	0.225	0.235
	B	0.206	0.002	3	0.205	0.208
	C	0.207	0.007	3	0.201	0.214
202	A	0.243	0.007	3	0.235	0.248
	B	0.226	0.001	3	0.226	0.227
	C	0.218	0.001	3	0.217	0.219
203	A	0.248	0.006	3	0.243	0.254
	B	0.229	0.011	3	0.218	0.239
	C	0.233	0.003	3	0.230	0.235
204	A	0.243	0.002	3	0.241	0.245
	B	0.220	0.006	3	0.214	0.225
	C	0.233	0.012	3	0.223	0.247
205	A	0.253	0.010	3	0.241	0.260
	B	0.243	0.021	3	0.230	0.267
	C	0.233	0.002	3	0.232	0.235
206	A	0.239	0.005	3	0.234	0.243
	B	0.227	0.008	3	0.219	0.235
	C	0.226	0.004	3	0.222	0.230
207	A	0.241	0.003	3	0.238	0.243
	B	0.236	0.006	3	0.229	0.241
	C	0.229	0.002	3	0.227	0.230
208	A	0.246	0.001	3	0.245	0.247
	B	0.229	0.003	3	0.225	0.231
	C	0.225	0.010	3	0.215	0.234
209	A	0.223	0.003	3	0.220	0.226
	B	0.219	0.004	3	0.216	0.223
	C	0.221	0.003	3	0.219	0.224
210	A	0.241	0.002	3	0.239	0.243
	B	0.230	0.006	3	0.226	0.236
	C	0.234	0.002	3	0.232	0.236
ALL	A	0.241	0.010	30	0.220	0.260
	B	0.226	0.012	30	0.205	0.267
	C	0.226	0.010	30	0.201	0.247
	D	0.248	0.010	10	0.232	0.261
	E	0.244	0.013	10	0.224	0.263
	F	0.215	0.009	10	0.197	0.228

Table 1b: Descriptive Statistics
- Minerals (cont.)

Parameter=Sodium [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	0.013	0.006	3	0.010	0.020
	B	0.012	0.003	3	0.010	0.015
	C	0.022	0.015	3	0.012	0.040
202	A	0.010	0.000	3	0.010	0.010
	B	0.011	0.001	3	0.010	0.012
	C	0.019	0.011	3	0.010	0.031
203	A	0.012	0.003	3	0.010	0.015
	B	0.013	0.003	3	0.010	0.016
	C	0.010	0.000	3	0.010	0.010
204	A	0.012	0.003	3	0.010	0.015
	B	0.013	0.006	3	0.010	0.020
	C	0.024	0.010	3	0.013	0.033
205	A	0.013	0.006	3	0.010	0.020
	B	0.022	0.016	3	0.010	0.040
	C	0.019	0.009	3	0.010	0.029
206	A	0.010	0.000	3	0.010	0.010
	B	0.017	0.003	3	0.014	0.020
	C	0.011	0.002	3	0.010	0.013
207	A	0.010	0.000	3	0.010	0.010
	B	0.013	0.003	3	0.010	0.015
	C	0.017	0.006	3	0.010	0.022
208	A	0.012	0.004	3	0.010	0.017
	B	0.014	0.008	3	0.010	0.023
	C	0.016	0.003	3	0.015	0.019
209	A	0.011	0.002	3	0.010	0.014
	B	0.014	0.005	3	0.010	0.019
	C	0.010	0.000	3	0.010	0.010
210	A	0.012	0.003	3	0.010	0.015
	B	0.025	0.005	3	0.019	0.029
	C	0.015	0.003	3	0.013	0.019
ALL	A	0.012	0.003	30	0.010	0.020
	B	0.015	0.007	30	0.010	0.040
	C	0.016	0.008	30	0.010	0.040
	D	0.012	0.005	10	0.010	0.026
	E	0.015	0.007	10	0.010	0.026
	F	0.012	0.003	10	0.010	0.021

Table 1b: Descriptive Statistics
- Minerals (cont.)

Parameter=Iron [mg/kg dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	77.7	2.7	3	74.6	79.7
	B	75.9	0.5	3	75.4	76.3
	C	76.1	0.7	3	75.4	76.8
202	A	77.8	1.0	3	77.0	78.9
	B	75.7	2.4	3	73.5	78.3
	C	74.5	3.2	3	71.2	77.6
203	A	92.9	1.7	3	91.0	94.4
	B	88.5	3.9	3	84.0	90.7
	C	87.0	0.8	3	86.1	87.7
204	A	94.5	3.9	3	90.1	97.7
	B	89.1	3.4	3	85.5	92.3
	C	86.6	5.5	3	81.7	92.6
205	A	83.7	5.0	3	79.7	89.3
	B	82.1	3.5	3	78.4	85.4
	C	79.9	1.7	3	78.1	81.4
206	A	84.2	0.6	3	83.5	84.6
	B	80.9	3.8	3	76.7	84.0
	C	82.8	1.4	3	82.0	84.5
207	A	80.7	1.1	3	79.4	81.6
	B	78.4	1.3	3	77.7	79.9
	C	78.6	0.4	3	78.2	78.9
208	A	76.3	1.0	3	75.1	77.1
	B	75.4	1.9	3	73.3	76.6
	C	76.9	3.1	3	73.8	79.9
209	A	187.5	99.6	3	93.6	292.0
	B	103.3	37.8	3	80.5	147.0
	C	119.8	52.4	3	84.8	180.0
210	A	78.1	1.4	3	77.0	79.7
	B	76.7	2.2	3	74.4	78.8
	C	78.4	0.6	3	77.7	78.9
ALL	A	93.3	41.8	30	74.6	292.0
	B	82.6	13.3	30	73.3	147.0
	C	84.1	18.9	30	71.2	180.0
	D	81.2	33.3	10	64.3	175.0
	E	81.9	29.6	10	58.8	163.0
	F	68.4	4.4	10	63.0	77.4

Table 1c: Descriptive Statistics
- Vitamins

Parameter=Vitamin B1 [mg/kg dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	3.40	0.98	3	2.30	4.20
	B	3.27	0.12	3	3.20	3.40
	C	2.23	0.32	3	2.00	2.60
202	A	2.00	0.20	3	1.80	2.20
	B	1.83	0.12	3	1.70	1.90
	C	2.20	0.40	3	1.80	2.60
203	A	3.17	0.29	3	3.00	3.50
	B	2.63	0.70	3	1.90	3.30
	C	2.00	0.87	3	1.40	3.00
204	A	3.80	0.50	3	3.30	4.30
	B	3.70	0.26	3	3.50	4.00
	C	3.50	0.17	3	3.40	3.70
205	A	4.17	0.58	3	3.50	4.50
	B	3.90	0.96	3	2.80	4.60
	C	4.10	0.00	3	4.10	4.10
206	A	3.77	0.51	3	3.20	4.20
	B	3.80	0.10	3	3.70	3.90
	C	3.93	0.32	3	3.70	4.30
207	A	4.13	0.29	3	3.80	4.30
	B	3.47	1.52	3	2.10	5.10
	C	3.23	0.15	3	3.10	3.40
208	A	3.47	0.46	3	3.20	4.00
	B	3.20	0.40	3	2.80	3.60
	C	3.37	0.40	3	2.90	3.60
209	A	4.00	0.53	3	3.40	4.40
	B	4.87	0.38	3	4.60	5.30
	C	4.50	0.17	3	4.40	4.70
210	A	4.00	0.30	3	3.70	4.30
	B	3.73	0.40	3	3.30	4.10
	C	2.50	0.46	3	2.10	3.00
ALL	A	3.59	0.76	30	1.80	4.50
	B	3.44	0.95	30	1.70	5.30
	C	3.16	0.91	30	1.40	4.70
	D	3.43	0.73	10	2.10	4.70
	E	2.73	0.51	10	1.60	3.10
	F	2.55	0.48	10	1.80	3.20

Table 1c: Descriptive Statistics
- Vitamins (cont.)

Parameter=Vitamin B2 [mg/kg dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	3.73	0.13	3	3.61	3.86
	B	4.22	1.02	3	3.40	5.36
	C	4.87	1.04	3	3.87	5.95
202	A	4.43	1.07	3	3.63	5.64
	B	3.80	0.22	3	3.58	4.01
	C	4.21	0.77	3	3.55	5.06
203	A	4.31	0.83	3	3.45	5.10
	B	4.86	1.20	3	3.79	6.16
	C	4.72	1.02	3	3.91	5.87
204	A	3.70	0.34	3	3.47	4.09
	B	4.80	1.14	3	3.77	6.03
	C	5.13	0.95	3	4.36	6.19
205	A	4.44	0.84	3	3.67	5.33
	B	4.41	0.74	3	3.96	5.26
	C	4.45	0.02	3	4.43	4.46
206	A	4.80	1.51	3	3.73	6.53
	B	3.94	0.47	3	3.40	4.24
	C	4.70	1.32	3	3.35	5.98
207	A	4.27	0.24	3	4.09	4.54
	B	4.84	1.19	3	3.91	6.19
	C	5.30	0.83	3	4.50	6.15
208	A	4.65	0.21	3	4.41	4.78
	B	4.47	1.15	3	3.58	5.77
	C	4.82	1.14	3	3.81	6.05
209	A	4.80	1.49	3	3.65	6.48
	B	4.78	0.41	3	4.34	5.16
	C	4.51	0.67	3	4.12	5.28
210	A	5.07	1.08	3	4.12	6.25
	B	5.04	1.21	3	3.65	5.83
	C	5.34	0.72	3	4.64	6.07
ALL	A	4.42	0.88	30	3.45	6.53
	B	4.52	0.89	30	3.40	6.19
	C	4.80	0.84	30	3.35	6.19
	D	4.13	0.74	10	3.36	5.87
	E	4.55	0.84	10	3.77	6.38
	F	4.45	0.78	10	3.59	5.79

Table 1c: Descriptive Statistics
- Vitamins (cont.)

Parameter=Folic Acid [mg/kg dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	3.41	0.35	3	3.09	3.78
	B	3.32	0.19	3	3.19	3.53
	C	3.23	0.41	3	2.89	3.69
202	A	2.57	0.07	3	2.50	2.63
	B	2.93	0.09	3	2.88	3.04
	C	2.69	0.26	3	2.39	2.86
203	A	2.74	0.18	3	2.56	2.91
	B	3.07	0.16	3	2.94	3.25
	C	2.91	0.36	3	2.53	3.24
204	A	3.02	0.08	3	2.93	3.08
	B	3.06	0.13	3	2.95	3.20
	C	3.16	0.18	3	3.03	3.36
205	A	2.69	0.37	3	2.31	3.05
	B	3.05	0.08	3	2.96	3.11
	C	3.16	0.25	3	2.92	3.41
206	A	3.10	0.43	3	2.62	3.42
	B	3.00	0.16	3	2.88	3.18
	C	3.23	0.14	3	3.07	3.31
207	A	3.01	0.16	3	2.88	3.18
	B	2.75	0.22	3	2.52	2.95
	C	3.05	0.28	3	2.74	3.30
208	A	2.92	0.19	3	2.75	3.13
	B	2.80	0.25	3	2.52	3.01
	C	3.01	0.42	3	2.53	3.29
209	A	3.17	0.57	3	2.53	3.61
	B	3.62	0.12	3	3.49	3.69
	C	3.70	0.13	3	3.56	3.82
210	A	3.14	0.29	3	2.83	3.41
	B	3.08	0.47	3	2.70	3.60
	C	3.09	0.23	3	2.83	3.27
ALL	A	2.98	0.35	30	2.31	3.78
	B	3.07	0.30	30	2.52	3.69
	C	3.12	0.34	30	2.39	3.82
	D	3.22	0.45	10	2.19	3.78
	E	3.37	0.26	10	2.86	3.76
	F	3.65	0.41	10	3.04	4.33

Table 1c: Descriptive Statistics
- Vitamins (cont.)

Parameter=Vitamin A [mg/kg dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	0.200	0.000	3	0.200	0.200
	B	0.200	0.000	3	0.200	0.200
	C	0.200	0.000	3	0.200	0.200
202	A	0.200	0.000	3	0.200	0.200
	B	0.200	0.000	3	0.200	0.200
	C	0.200	0.000	3	0.200	0.200
203	A	0.200	0.000	3	0.200	0.200
	B	0.200	0.000	3	0.200	0.200
	C	0.200	0.000	3	0.200	0.200
204	A	0.200	0.000	3	0.200	0.200
	B	0.221	0.018	3	0.200	0.234
	C	0.238	0.037	3	0.200	0.273
205	A	0.200	0.000	3	0.200	0.200
	B	0.200	0.000	3	0.200	0.200
	C	0.200	0.000	3	0.200	0.200
206	A	0.200	0.000	3	0.200	0.200
	B	0.200	0.000	3	0.200	0.200
	C	0.200	0.000	3	0.200	0.200
207	A	0.200	0.000	3	0.200	0.200
	B	0.200	0.000	3	0.200	0.200
	C	0.261	0.029	3	0.239	0.294
208	A	0.214	0.025	3	0.200	0.243
	B	0.303	0.045	3	0.252	0.331
	C	0.408	0.015	3	0.392	0.422
209	A	0.350	0.047	3	0.307	0.400
	B	0.557	0.014	3	0.546	0.573
	C	0.536	0.033	3	0.501	0.566
210	A	0.211	0.018	3	0.200	0.232
	B	0.332	0.050	3	0.294	0.389
	C	0.395	0.029	3	0.362	0.412
ALL	A	0.217	0.047	30	0.200	0.400
	B	0.261	0.112	30	0.200	0.573
	C	0.284	0.117	30	0.200	0.566
	D	0.200	0.000	10	0.200	0.200
	E	0.200	0.000	10	0.200	0.200
	F	0.200	0.000	10	0.200	0.200

Table 1c: Descriptive Statistics
- Vitamins (cont.)

Parameter=Vitamin K [mg/kg dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	0.169	0.048	3	0.135	0.223
	B	0.148	0.012	3	0.134	0.156
	C	0.116	0.028	3	0.100	0.149
202	A	0.100	0.000	3	0.100	0.100
	B	0.100	0.000	3	0.100	0.100
	C	0.133	0.043	3	0.100	0.182
203	A	0.141	0.037	3	0.100	0.172
	B	0.174	0.033	3	0.139	0.203
	C	0.149	0.042	3	0.100	0.174
204	A	0.168	0.050	3	0.121	0.221
	B	0.207	0.019	3	0.190	0.227
	C	0.234	0.021	3	0.211	0.252
205	A	0.179	0.069	3	0.100	0.221
	B	0.198	0.086	3	0.100	0.260
	C	0.208	0.062	3	0.156	0.276
206	A	0.167	0.054	3	0.131	0.229
	B	0.260	0.014	3	0.243	0.268
	C	0.209	0.055	3	0.151	0.260
207	A	0.232	0.023	3	0.218	0.258
	B	0.211	0.100	3	0.126	0.322
	C	0.267	0.047	3	0.239	0.321
208	A	0.272	0.036	3	0.232	0.301
	B	0.190	0.079	3	0.100	0.248
	C	0.222	0.072	3	0.149	0.292
209	A	0.181	0.049	3	0.141	0.236
	B	0.277	0.082	3	0.207	0.367
	C	0.388	0.044	3	0.348	0.435
210	A	0.304	0.032	3	0.267	0.326
	B	0.270	0.119	3	0.150	0.388
	C	0.226	0.085	3	0.170	0.324
ALL	A	0.191	0.069	30	0.100	0.326
	B	0.203	0.078	30	0.100	0.388
	C	0.215	0.087	30	0.100	0.435
	D	0.158	0.046	10	0.100	0.247
	E	0.149	0.052	10	0.100	0.229
	F	0.168	0.063	10	0.100	0.263

Table 1c: Descriptive Statistics
- Vitamins (cont.)

Parameter=Alpha Tocopherol [mg/kg dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	13.9	0.8	3	13.1	14.7
	B	12.9	1.7	3	11.7	14.8
	C	14.2	1.8	3	12.6	16.2
202	A	13.4	1.0	3	12.5	14.4
	B	14.0	1.6	3	12.3	15.5
	C	14.0	1.2	3	13.0	15.3
203	A	13.4	0.3	3	13.2	13.7
	B	15.4	2.7	3	12.2	17.1
	C	17.7	2.5	3	14.9	19.6
204	A	17.5	0.9	3	16.6	18.4
	B	18.5	0.9	3	17.9	19.5
	C	21.3	1.4	3	20.4	22.9
205	A	15.5	1.2	3	14.4	16.8
	B	18.1	1.9	3	16.1	19.9
	C	17.1	1.3	3	15.9	18.4
206	A	16.9	0.8	3	16.0	17.4
	B	14.3	1.2	3	13.5	15.7
	C	15.9	1.4	3	14.3	16.7
207	A	21.6	0.6	3	20.9	22.0
	B	25.3	2.7	3	22.5	27.8
	C	25.7	2.8	3	22.6	28.1
208	A	20.4	1.9	3	18.2	21.5
	B	20.2	2.7	3	17.1	21.9
	C	23.4	0.9	3	22.3	24.1
209	A	24.0	5.5	3	19.7	30.2
	B	26.3	2.0	3	24.2	28.2
	C	31.0	1.8	3	29.3	32.9
210	A	17.8	1.4	3	16.9	19.4
	B	24.8	1.1	3	23.6	25.5
	C	26.8	1.7	3	25.5	28.7
ALL	A	17.4	3.9	30	12.5	30.2
	B	19.0	5.1	30	11.7	28.2
	C	20.7	5.8	30	12.6	32.9
	D	16.4	3.6	10	12.2	23.7
	E	18.7	3.3	10	15.0	24.9
	F	17.0	2.3	10	12.9	20.0

Table 1c: Descriptive Statistics
- Vitamins (cont.)

Parameter=Gamma Tocopherol [mg/kg dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	183	4	3	181	188
	B	181	6	3	175	187
	C	193	11	3	186	206
202	A	171	6	3	166	177
	B	186	10	3	176	195
	C	183	8	3	175	191
203	A	177	5	3	173	182
	B	191	11	3	180	201
	C	197	9	3	187	203
204	A	202	4	3	199	206
	B	196	3	3	194	199
	C	196	2	3	194	198
205	A	194	6	3	189	201
	B	197	10	3	191	209
	C	194	4	3	190	197
206	A	191	6	3	187	198
	B	193	7	3	185	198
	C	191	5	3	185	195
207	A	217	5	3	212	221
	B	214	8	3	205	221
	C	216	5	3	211	221
208	A	200	12	3	191	214
	B	208	7	3	202	216
	C	204	10	3	196	216
209	A	202	18	3	183	219
	B	213	3	3	210	215
	C	199	3	3	195	201
210	A	210	5	3	205	215
	B	219	6	3	213	223
	C	206	7	3	201	214
ALL	A	195	16	30	166	221
	B	200	14	30	175	223
	C	198	11	30	175	221
	D	174	11	10	156	186
	E	188	20	10	164	237
	F	173	13	10	153	189

Table 1c: Descriptive Statistics
- Vitamins (cont.)

Parameter=Delta Tocopherol [mg/kg dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	85.4	0.9	3	84.4	86.0
	B	84.6	2.5	3	83.0	87.5
	C	89.4	5.7	3	82.9	93.8
202	A	86.0	3.0	3	82.8	88.8
	B	87.9	1.8	3	86.8	90.0
	C	89.8	4.1	3	85.1	92.6
203	A	78.2	0.7	3	77.6	78.9
	B	82.7	1.8	3	80.7	84.0
	C	85.2	2.2	3	82.7	86.8
204	A	76.2	1.2	3	75.0	77.3
	B	74.9	3.2	3	72.7	78.5
	C	69.7	3.4	3	67.4	73.6
205	A	66.9	2.3	3	64.9	69.4
	B	70.9	9.7	3	61.0	80.4
	C	70.6	1.1	3	69.4	71.6
206	A	69.9	6.0	3	63.3	74.9
	B	76.1	7.4	3	69.6	84.1
	C	74.9	3.2	3	71.4	77.6
207	A	71.6	0.9	3	70.7	72.4
	B	69.2	1.4	3	67.7	70.5
	C	69.5	5.0	3	63.9	73.6
208	A	71.0	4.2	3	66.5	74.9
	B	73.2	2.0	3	71.6	75.4
	C	71.7	3.8	3	69.5	76.1
209	A	64.9	2.1	3	63.7	67.3
	B	64.4	3.6	3	60.8	68.0
	C	55.9	2.5	3	54.1	58.8
210	A	70.7	2.5	3	68.2	73.2
	B	67.6	2.2	3	65.6	69.9
	C	63.4	3.3	3	60.4	67.0
ALL	A	74.1	7.4	30	63.3	88.8
	B	75.2	8.3	30	60.8	90.0
	C	74.0	11.1	30	54.1	93.8
	D	76.2	9.5	10	63.6	96.1
	E	81.8	8.4	10	71.7	99.2
	F	50.3	5.6	10	41.5	60.0

Table 1c: Descriptive Statistics
- Vitamins (cont.)

Parameter=Total Tocopherol [mg/kg dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	283	5	3	280	289
	B	279	7	3	271	285
	C	297	17	3	284	316
202	A	270	8	3	261	277
	B	289	12	3	275	298
	C	287	6	3	280	291
203	A	269	5	3	266	274
	B	289	15	3	273	301
	C	300	13	3	285	308
204	A	295	3	3	293	299
	B	290	6	3	285	297
	C	286	3	3	282	288
205	A	277	6	3	272	283
	B	286	18	3	273	307
	C	282	4	3	278	286
206	A	278	12	3	266	290
	B	284	13	3	271	296
	C	282	9	3	271	289
207	A	310	6	3	304	315
	B	309	11	3	298	319
	C	311	6	3	307	318
208	A	292	17	3	280	311
	B	301	11	3	292	313
	C	299	15	3	288	316
209	A	291	23	3	267	313
	B	304	1	3	303	305
	C	286	6	3	279	291
210	A	299	6	3	293	305
	B	312	9	3	302	318
	C	296	12	3	287	309
ALL	A	286	16	30	261	315
	B	294	14	30	271	319
	C	293	13	30	271	318
	D	267	15	10	237	285
	E	289	25	10	252	346
	F	240	12	10	225	257

Table 1d: Descriptive Statistics
- Anti-nutrients

Parameter=Phytic Acid [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	1.10	0.10	3	1.03	1.22
	B	0.95	0.08	3	0.89	1.04
	C	0.84	0.08	3	0.79	0.93
202	A	1.41	0.09	3	1.31	1.49
	B	1.39	0.04	3	1.36	1.43
	C	1.36	0.12	3	1.26	1.49
203	A	1.62	0.08	3	1.54	1.70
	B	1.82	0.12	3	1.68	1.91
	C	1.71	0.16	3	1.56	1.87
204	A	1.54	0.04	3	1.51	1.58
	B	1.47	0.18	3	1.26	1.58
	C	1.33	0.12	3	1.24	1.47
205	A	1.53	0.10	3	1.42	1.60
	B	1.40	0.16	3	1.22	1.54
	C	1.48	0.06	3	1.43	1.54
206	A	1.45	0.14	3	1.28	1.54
	B	1.34	0.03	3	1.31	1.36
	C	1.35	0.12	3	1.24	1.47
207	A	1.37	0.07	3	1.31	1.45
	B	1.26	0.17	3	1.07	1.40
	C	1.30	0.07	3	1.23	1.36
208	A	1.35	0.03	3	1.33	1.38
	B	1.36	0.15	3	1.19	1.47
	C	1.26	0.14	3	1.14	1.42
209	A	1.29	0.07	3	1.21	1.33
	B	1.40	0.08	3	1.31	1.45
	C	1.41	0.09	3	1.32	1.49
210	A	1.35	0.06	3	1.30	1.41
	B	1.36	0.14	3	1.20	1.46
	C	1.41	0.06	3	1.34	1.46
ALL	A	1.40	0.16	30	1.03	1.70
	B	1.37	0.23	30	0.89	1.91
	C	1.35	0.23	30	0.79	1.87
	D	1.26	0.19	10	0.96	1.50
	E	1.26	0.12	10	1.10	1.48
	F	1.21	0.14	10	0.98	1.42

Table 1d: Descriptive Statistics
- Anti-nutrients (cont.)

Parameter=Raffinose [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	0.341	0.023	3	0.314	0.357
	B	0.363	0.041	3	0.318	0.399
	C	0.347	0.005	3	0.342	0.352
202	A	0.348	0.009	3	0.337	0.355
	B	0.352	0.012	3	0.345	0.365
	C	0.336	0.010	3	0.330	0.348
203	A	0.382	0.039	3	0.339	0.416
	B	0.408	0.048	3	0.361	0.456
	C	0.382	0.013	3	0.372	0.397
204	A	0.381	0.034	3	0.351	0.418
	B	0.426	0.040	3	0.389	0.468
	C	0.414	0.019	3	0.392	0.427
205	A	0.364	0.028	3	0.331	0.383
	B	0.390	0.046	3	0.338	0.425
	C	0.413	0.034	3	0.374	0.438
206	A	0.364	0.023	3	0.345	0.389
	B	0.309	0.025	3	0.280	0.327
	C	0.317	0.005	3	0.312	0.322
207	A	0.365	0.040	3	0.323	0.402
	B	0.367	0.015	3	0.350	0.378
	C	0.388	0.060	3	0.332	0.452
208	A	0.411	0.015	3	0.402	0.428
	B	0.461	0.059	3	0.411	0.526
	C	0.505	0.006	3	0.499	0.511
209	A	0.349	0.029	3	0.317	0.375
	B	0.378	0.021	3	0.360	0.401
	C	0.360	0.005	3	0.355	0.363
210	A	0.304	0.024	3	0.286	0.331
	B	0.330	0.017	3	0.315	0.348
	C	0.328	0.029	3	0.295	0.349
ALL	A	0.361	0.036	30	0.286	0.428
	B	0.378	0.053	30	0.280	0.526
	C	0.379	0.058	30	0.295	0.511
	D	0.410	0.054	10	0.332	0.501
	E	0.406	0.056	10	0.339	0.504
	F	0.349	0.029	10	0.290	0.395

Table 1d: Descriptive Statistics
- Anti-nutrients (cont.)

Parameter=Stachyose [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	2.32	0.29	3	2.04	2.61
	B	2.21	0.11	3	2.13	2.34
	C	2.35	0.04	3	2.32	2.39
202	A	2.68	0.13	3	2.58	2.83
	B	2.47	0.05	3	2.44	2.53
	C	2.50	0.33	3	2.19	2.85
203	A	2.49	0.35	3	2.09	2.73
	B	2.47	0.12	3	2.36	2.60
	C	2.58	0.30	3	2.32	2.90
204	A	2.51	0.34	3	2.12	2.73
	B	2.34	0.26	3	2.12	2.62
	C	2.37	0.12	3	2.29	2.51
205	A	2.41	0.24	3	2.17	2.64
	B	2.36	0.24	3	2.09	2.56
	C	2.40	0.30	3	2.06	2.61
206	A	2.59	0.28	3	2.39	2.91
	B	2.33	0.15	3	2.16	2.43
	C	2.49	0.05	3	2.46	2.55
207	A	2.31	0.20	3	2.08	2.42
	B	2.60	0.12	3	2.47	2.70
	C	2.61	0.14	3	2.46	2.72
208	A	2.57	0.07	3	2.51	2.64
	B	2.44	0.09	3	2.34	2.51
	C	2.59	0.10	3	2.50	2.69
209	A	2.62	0.29	3	2.30	2.84
	B	2.57	0.29	3	2.32	2.88
	C	2.69	0.07	3	2.61	2.75
210	A	2.40	0.10	3	2.32	2.52
	B	2.42	0.03	3	2.40	2.46
	C	2.41	0.10	3	2.30	2.50
ALL	A	2.49	0.24	30	2.04	2.91
	B	2.42	0.18	30	2.09	2.88
	C	2.50	0.19	30	2.06	2.90
	D	2.66	0.20	10	2.32	2.96
	E	2.57	0.19	10	2.23	2.80
	F	2.46	0.20	10	2.23	2.76

Table 1d: Descriptive Statistics
- Anti-nutrients (cont.)

Parameter=Lectin [H.U./mg]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	1.75	0.09	3	1.65	1.81
	B	1.33	0.18	3	1.13	1.48
	C	1.50	0.12	3	1.36	1.58
202	A	1.72	0.17	3	1.56	1.89
	B	1.26	0.17	3	1.10	1.44
	C	1.32	0.13	3	1.22	1.47
203	A	1.48	0.57	3	0.92	2.05
	B	1.30	0.58	3	0.82	1.94
	C	1.35	0.25	3	1.10	1.59
204	A	2.33	1.76	3	0.91	4.29
	B	1.34	0.40	3	1.09	1.80
	C	1.58	0.58	3	0.91	1.92
205	A	1.66	0.40	3	1.19	1.89
	B	1.27	0.62	3	0.66	1.90
	C	1.36	0.64	3	0.88	2.08
206	A	2.05	0.24	3	1.85	2.32
	B	1.26	0.41	3	1.00	1.74
	C	1.99	0.62	3	1.40	2.63
207	A	1.52	0.30	3	1.22	1.82
	B	1.84	1.07	3	1.20	3.08
	C	1.51	0.32	3	1.21	1.84
208	A	1.82	0.06	3	1.79	1.89
	B	1.38	0.35	3	1.01	1.70
	C	1.87	0.40	3	1.49	2.29
209	A	1.39	0.49	3	1.01	1.94
	B	1.17	0.41	3	0.93	1.65
	C	1.68	0.52	3	1.22	2.24
210	A	1.73	0.36	3	1.39	2.11
	B	1.84	0.52	3	1.27	2.29
	C	1.28	0.20	3	1.05	1.43
ALL	A	1.74	0.60	30	0.91	4.29
	B	1.40	0.50	30	0.66	3.08
	C	1.54	0.42	30	0.88	2.63
	D	2.57	2.15	10	1.46	8.63
	E	1.18	0.20	10	0.90	1.48
	F	0.97	0.42	10	0.46	1.94

Table 1d: Descriptive Statistics
- Anti-nutrients (cont.)

Parameter=Trypsin inhibitor [TIU/mg]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	30.0	4.9	3	25.1	34.9
	B	23.3	3.2	3	19.6	25.5
	C	29.0	5.7	3	23.7	35.1
202	A	28.3	5.4	3	23.3	34.1
	B	25.0	0.5	3	24.5	25.5
	C	30.7	6.0	3	24.1	35.6
203	A	30.0	7.4	3	23.3	37.9
	B	34.3	6.8	3	28.1	41.5
	C	31.6	7.3	3	23.6	37.9
204	A	31.7	4.3	3	26.7	34.6
	B	32.2	7.6	3	23.4	37.2
	C	37.6	2.0	3	35.3	39.2
205	A	37.5	0.8	3	36.9	38.4
	B	30.2	5.9	3	25.6	36.8
	C	37.5	9.6	3	26.4	43.4
206	A	32.7	8.0	3	27.6	41.9
	B	26.7	4.2	3	23.8	31.5
	C	33.8	3.0	3	30.7	36.6
207	A	41.2	10.2	3	29.4	47.6
	B	32.7	8.5	3	26.9	42.4
	C	39.7	3.4	3	35.8	41.8
208	A	34.4	6.6	3	28.4	41.5
	B	32.7	7.9	3	26.8	41.6
	C	33.2	5.0	3	28.8	38.7
209	A	36.4	2.1	3	35.0	38.8
	B	32.0	4.7	3	28.8	37.4
	C	32.4	6.1	3	25.4	36.6
210	A	27.8	6.6	3	23.9	35.4
	B	31.6	5.4	3	25.4	35.1
	C	33.5	4.7	3	28.2	37.1
ALL	A	33.0	6.6	30	23.3	47.6
	B	30.1	6.1	30	19.6	42.4
	C	33.9	5.7	30	23.6	43.4
	D	39.0	9.2	10	29.5	60.1
	E	34.9	7.3	10	24.6	49.5
	F	30.4	5.4	10	23.5	38.4

Table 1e: Descriptive Statistics
- Isoflavones

Parameter=Daidzein [mg/kg dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	12.7	2.7	3	10.0	15.4
	B	11.9	1.9	3	10.0	13.8
	C	10.4	0.8	3	10.0	11.3
202	A	10.0	0.0	3	10.0	10.0
	B	11.7	2.9	3	10.0	15.1
	C	11.5	2.7	3	10.0	14.6
203	A	10.7	1.2	3	10.0	12.1
	B	10.4	0.8	3	10.0	11.3
	C	10.9	1.5	3	10.0	12.6
204	A	10.0	0.0	3	10.0	10.0
	B	10.0	0.0	3	10.0	10.0
	C	10.0	0.0	3	10.0	10.0
205	A	14.0	3.8	3	10.0	17.5
	B	10.9	1.6	3	10.0	12.8
	C	10.0	0.0	3	10.0	10.0
206	A	10.0	0.0	3	10.0	10.0
	B	10.0	0.0	3	10.0	10.0
	C	10.0	0.0	3	10.0	10.0
207	A	11.5	1.6	3	10.0	13.2
	B	10.0	0.0	3	10.0	10.0
	C	10.0	0.0	3	10.0	10.0
208	A	10.0	0.0	3	10.0	10.0
	B	11.0	1.8	3	10.0	13.1
	C	10.0	0.0	3	10.0	10.0
209	A	10.0	0.0	3	10.0	10.0
	B	11.1	1.8	3	10.0	13.2
	C	10.0	0.0	3	10.0	10.0
210	A	11.0	1.8	3	10.0	13.1
	B	10.0	0.0	3	10.0	10.0
	C	10.0	0.0	3	10.0	10.0
ALL	A	11.0	2.0	30	10.0	17.5
	B	10.7	1.4	30	10.0	15.1
	C	10.3	1.0	30	10.0	14.6
	D	10.4	1.3	10	10.0	14.0
	E	10.6	0.9	10	10.0	12.5
	F	10.7	1.3	10	10.0	14.0

Table 1e: Descriptive Statistics
- Isoflavones (cont.)

Parameter=Genistein [mg/kg dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	12.1	0.7	3	11.3	12.6
	B	11.5	1.5	3	10.0	12.9
	C	10.5	0.9	3	10.0	11.5
202	A	10.7	1.3	3	10.0	12.2
	B	12.4	3.0	3	10.0	15.7
	C	10.6	1.0	3	10.0	11.8
203	A	13.3	0.5	3	13.0	13.9
	B	12.3	2.4	3	10.0	14.7
	C	10.5	0.9	3	10.0	11.6
204	A	12.6	0.2	3	12.4	12.8
	B	12.1	1.5	3	11.2	13.8
	C	10.7	1.2	3	10.0	12.1
205	A	16.1	1.6	3	14.3	17.2
	B	13.9	1.3	3	13.0	15.4
	C	11.6	0.5	3	11.1	12.1
206	A	10.0	0.0	3	10.0	10.0
	B	10.0	0.0	3	10.0	10.0
	C	10.0	0.0	3	10.0	10.0
207	A	10.0	0.0	3	10.0	10.0
	B	10.0	0.0	3	10.0	10.0
	C	10.0	0.0	3	10.0	10.0
208	A	10.0	0.0	3	10.0	10.0
	B	10.0	0.0	3	10.0	10.0
	C	10.7	1.3	3	10.0	12.2
209	A	10.0	0.0	3	10.0	10.0
	B	10.0	0.0	3	10.0	10.0
	C	10.0	0.0	3	10.0	10.0
210	A	10.0	0.0	3	10.0	10.0
	B	10.0	0.0	3	10.0	10.0
	C	10.0	0.0	3	10.0	10.0
ALL	A	11.5	2.1	30	10.0	17.2
	B	11.2	1.8	30	10.0	15.7
	C	10.5	0.8	30	10.0	12.2
	D	12.0	3.6	10	10.0	20.6
	E	10.0	0.0	10	10.0	10.0
	F	10.0	0.0	10	10.0	10.0

Table 1e: Descriptive Statistics
- Isoflavones (cont.)

Parameter=Daidzin [mg/kg dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	1750	125	3	1610	1850
	B	1650	36	3	1620	1690
	C	1717	86	3	1640	1810
202	A	1295	432	3	805	1620
	B	1490	46	3	1440	1530
	C	1170	385	3	729	1440
203	A	1157	55	3	1120	1220
	B	1177	15	3	1160	1190
	C	1180	20	3	1160	1200
204	A	1080	30	3	1050	1110
	B	1137	40	3	1100	1180
	C	1042	102	3	947	1150
205	A	1083	15	3	1070	1100
	B	1123	128	3	978	1220
	C	1100	72	3	1040	1180
206	A	932	67	3	855	973
	B	999	48	3	954	1050
	C	1012	42	3	985	1060
207	A	900	30	3	874	932
	B	728	53	3	670	775
	C	739	67	3	683	814
208	A	985	52	3	925	1020
	B	935	50	3	891	989
	C	910	58	3	857	972
209	A	533	49	3	480	578
	B	486	61	3	416	526
	C	461	54	3	400	504
210	A	638	37	3	595	663
	B	620	11	3	609	630
	C	606	7	3	602	614
ALL	A	1035	350	30	480	1850
	B	1034	356	30	416	1690
	C	994	357	30	400	1810
	D	1085	300	10	568	1570
	E	1213	360	10	736	1890
	F	1831	447	10	1080	2530

Table 1e: Descriptive Statistics
- Isoflavones (cont.)

Parameter=Glycitin [mg/kg dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	383	18	3	365	400
	B	438	14	3	422	450
	C	396	10	3	389	408
202	A	318	28	3	298	350
	B	354	15	3	345	371
	C	308	121	3	169	387
203	A	361	20	3	342	382
	B	420	1	3	419	421
	C	385	5	3	379	389
204	A	387	27	3	356	403
	B	447	49	3	403	499
	C	423	15	3	406	436
205	A	398	42	3	363	445
	B	460	47	3	419	511
	C	432	3	3	429	435
206	A	314	19	3	298	335
	B	366	28	3	350	398
	C	377	13	3	365	391
207	A	387	24	3	359	404
	B	390	11	3	380	402
	C	409	44	3	375	459
208	A	385	48	3	347	439
	B	431	33	3	404	468
	C	409	73	3	332	476
209	A	380	24	3	352	397
	B	447	9	3	438	455
	C	444	45	3	402	492
210	A	341	36	3	299	365
	B	392	37	3	354	428
	C	418	26	3	392	444
ALL	A	365	39	30	298	445
	B	414	43	30	345	511
	C	400	56	30	169	492
	D	173	20	10	142	204
	E	276	23	10	246	315
	F	218	16	10	192	241

Table 1e: Descriptive Statistics
- Isoflavones (cont.)

Parameter=Genistin [mg/kg dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	2663	127	3	2520	2760
	B	2383	67	3	2340	2460
	C	2367	42	3	2320	2400
202	A	2087	527	3	1490	2490
	B	2127	133	3	2040	2280
	C	2003	206	3	1810	2220
203	A	2110	62	3	2060	2180
	B	1917	57	3	1870	1980
	C	1907	31	3	1880	1940
204	A	1970	75	3	1900	2050
	B	1893	106	3	1780	1990
	C	1760	173	3	1650	1960
205	A	1877	6	3	1870	1880
	B	1767	197	3	1540	1890
	C	1740	66	3	1680	1810
206	A	1673	72	3	1590	1720
	B	1693	106	3	1580	1790
	C	1660	80	3	1580	1740
207	A	1817	6	3	1810	1820
	B	1477	107	3	1360	1570
	C	1493	121	3	1400	1630
208	A	1767	80	3	1690	1850
	B	1660	95	3	1560	1750
	C	1593	80	3	1510	1670
209	A	890	51	3	839	940
	B	715	77	3	627	771
	C	736	112	3	609	819
210	A	1317	50	3	1270	1370
	B	1190	36	3	1150	1220
	C	1143	15	3	1130	1160
ALL	A	1817	482	30	839	2760
	B	1682	465	30	627	2460
	C	1640	446	30	609	2400
	D	2294	602	10	1130	3290
	E	2131	536	10	1300	2980
	F	2098	436	10	1250	2760

Table 1e: Descriptive Statistics
- Isoflavones (cont.)

Parameter=Total Isoflavones [mg/kg dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	3000	176	3	2800	3130
	B	2793	59	3	2750	2860
	C	2787	90	3	2730	2890
202	A	2303	612	3	1610	2770
	B	2473	129	3	2380	2620
	C	2170	442	3	1680	2540
203	A	2270	70	3	2200	2340
	B	2190	56	3	2140	2250
	C	2160	26	3	2140	2190
204	A	2147	50	3	2100	2200
	B	2173	55	3	2120	2230
	C	2007	169	3	1890	2200
205	A	2117	21	3	2100	2140
	B	2103	211	3	1860	2230
	C	2047	76	3	1980	2130
206	A	1817	101	3	1700	1880
	B	1900	80	3	1820	1980
	C	1900	75	3	1830	1980
207	A	1937	12	3	1930	1950
	B	1617	101	3	1510	1710
	C	1640	142	3	1530	1800
208	A	1953	101	3	1860	2060
	B	1880	115	3	1770	2000
	C	1820	140	3	1680	1960
209	A	1120	75	3	1040	1190
	B	1030	89	3	930	1100
	C	1024	124	3	881	1100
210	A	1433	81	3	1340	1490
	B	1373	32	3	1350	1410
	C	1353	23	3	1340	1380
ALL	A	2010	522	30	1040	3130
	B	1953	507	30	930	2860
	C	1891	488	30	881	2890
	D	2215	569	10	1160	3170
	E	2252	548	10	1450	3170
	F	2570	541	10	1590	3390

Table 1f: Descriptive Statistics
- Amino Acids

Parameter=Alanine [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	1.68	0.02	3	1.66	1.70
	B	1.69	0.03	3	1.66	1.71
	C	1.66	0.03	3	1.64	1.69
202	A	1.70	0.01	3	1.69	1.71
	B	1.72	0.03	3	1.69	1.74
	C	1.69	0.03	3	1.66	1.71
203	A	1.66	0.03	3	1.64	1.69
	B	1.70	0.01	3	1.69	1.70
	C	1.70	0.02	3	1.68	1.72
204	A	1.66	0.03	3	1.63	1.68
	B	1.64	0.03	3	1.60	1.66
	C	1.67	0.03	3	1.64	1.69
205	A	1.67	0.03	3	1.64	1.70
	B	1.68	0.06	3	1.62	1.73
	C	1.66	0.03	3	1.63	1.68
206	A	1.74	0.01	3	1.73	1.75
	B	1.70	0.04	3	1.66	1.74
	C	1.71	0.01	3	1.71	1.72
207	A	1.63	0.03	3	1.60	1.66
	B	1.66	0.02	3	1.64	1.68
	C	1.65	0.02	3	1.64	1.68
208	A	1.70	0.05	3	1.65	1.75
	B	1.66	0.03	3	1.62	1.68
	C	1.68	0.07	3	1.60	1.72
209	A	1.70	0.04	3	1.66	1.73
	B	1.69	0.01	3	1.68	1.70
	C	1.67	0.05	3	1.62	1.72
210	A	1.67	0.03	3	1.65	1.70
	B	1.65	0.02	3	1.63	1.66
	C	1.68	0.06	3	1.61	1.72
ALL	A	1.68	0.04	30	1.60	1.75
	B	1.68	0.04	30	1.60	1.74
	C	1.68	0.04	30	1.60	1.72
	D	1.69	0.05	10	1.63	1.78
	E	1.64	0.05	10	1.55	1.73
	F	1.67	0.05	10	1.57	1.74

Table 1f: Descriptive Statistics
- Amino Acids (cont.)

Parameter=Arginine [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	2.95	0.02	3	2.93	2.97
	B	3.07	0.05	3	3.02	3.11
	C	2.96	0.04	3	2.93	3.00
202	A	3.00	0.03	3	2.97	3.02
	B	3.09	0.06	3	3.03	3.14
	C	3.02	0.07	3	2.94	3.08
203	A	2.94	0.03	3	2.92	2.97
	B	3.06	0.03	3	3.04	3.09
	C	3.00	0.04	3	2.96	3.04
204	A	2.90	0.05	3	2.85	2.95
	B	2.85	0.08	3	2.77	2.92
	C	2.91	0.09	3	2.81	2.99
205	A	2.88	0.04	3	2.85	2.92
	B	2.95	0.13	3	2.83	3.09
	C	2.88	0.00	3	2.88	2.88
206	A	3.10	0.01	3	3.09	3.11
	B	3.05	0.07	3	2.97	3.10
	C	3.06	0.02	3	3.05	3.08
207	A	2.79	0.08	3	2.71	2.87
	B	2.93	0.06	3	2.88	2.99
	C	2.88	0.08	3	2.84	2.97
208	A	3.02	0.17	3	2.86	3.20
	B	2.91	0.06	3	2.87	2.97
	C	2.97	0.20	3	2.74	3.10
209	A	2.96	0.09	3	2.86	3.04
	B	2.97	0.08	3	2.90	3.05
	C	2.93	0.15	3	2.77	3.05
210	A	2.89	0.04	3	2.85	2.92
	B	2.87	0.05	3	2.83	2.92
	C	2.93	0.16	3	2.75	3.05
ALL	A	2.94	0.10	30	2.71	3.20
	B	2.97	0.10	30	2.77	3.14
	C	2.95	0.10	30	2.74	3.10
	D	2.93	0.11	10	2.82	3.12
	E	2.92	0.14	10	2.69	3.13
	F	2.97	0.08	10	2.79	3.04

Table 1f: Descriptive Statistics
- Amino Acids (cont.)

Parameter=Aspartic acid [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	4.36	0.05	3	4.30	4.40
	B	4.46	0.06	3	4.39	4.51
	C	4.33	0.07	3	4.28	4.41
202	A	4.47	0.04	3	4.43	4.50
	B	4.53	0.08	3	4.45	4.60
	C	4.42	0.07	3	4.35	4.49
203	A	4.38	0.06	3	4.33	4.44
	B	4.44	0.03	3	4.41	4.47
	C	4.45	0.07	3	4.38	4.52
204	A	4.31	0.06	3	4.24	4.35
	B	4.19	0.10	3	4.08	4.25
	C	4.29	0.12	3	4.16	4.38
205	A	4.33	0.09	3	4.24	4.41
	B	4.37	0.15	3	4.23	4.53
	C	4.30	0.05	3	4.24	4.34
206	A	4.59	0.02	3	4.57	4.61
	B	4.49	0.11	3	4.38	4.60
	C	4.52	0.03	3	4.49	4.55
207	A	4.24	0.09	3	4.15	4.33
	B	4.34	0.08	3	4.27	4.43
	C	4.30	0.12	3	4.22	4.44
208	A	4.53	0.18	3	4.34	4.70
	B	4.33	0.07	3	4.26	4.39
	C	4.38	0.21	3	4.14	4.51
209	A	4.42	0.12	3	4.30	4.53
	B	4.39	0.08	3	4.32	4.47
	C	4.34	0.19	3	4.13	4.51
210	A	4.35	0.06	3	4.30	4.42
	B	4.26	0.04	3	4.21	4.29
	C	4.36	0.19	3	4.14	4.51
ALL	A	4.40	0.12	30	4.15	4.70
	B	4.38	0.12	30	4.08	4.60
	C	4.37	0.13	30	4.13	4.55
	D	4.39	0.15	10	4.24	4.67
	E	4.27	0.15	10	4.06	4.55
	F	4.37	0.13	10	4.09	4.52

Table 1f: Descriptive Statistics
- Amino Acids (cont.)

Parameter=Cystine [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	0.56	0.02	3	0.54	0.58
	B	0.54	0.03	3	0.51	0.57
	C	0.56	0.01	3	0.55	0.57
202	A	0.60	0.02	3	0.58	0.63
	B	0.61	0.00	3	0.61	0.61
	C	0.61	0.02	3	0.59	0.63
203	A	0.58	0.02	3	0.56	0.59
	B	0.60	0.01	3	0.59	0.60
	C	0.61	0.03	3	0.58	0.63
204	A	0.56	0.03	3	0.53	0.59
	B	0.56	0.00	3	0.55	0.56
	C	0.59	0.02	3	0.57	0.61
205	A	0.56	0.01	3	0.55	0.57
	B	0.59	0.01	3	0.58	0.61
	C	0.59	0.02	3	0.56	0.61
206	A	0.59	0.01	3	0.58	0.61
	B	0.58	0.01	3	0.57	0.59
	C	0.56	0.06	3	0.49	0.60
207	A	0.59	0.02	3	0.58	0.62
	B	0.60	0.02	3	0.59	0.62
	C	0.59	0.03	3	0.56	0.62
208	A	0.61	0.02	3	0.59	0.63
	B	0.59	0.01	3	0.58	0.60
	C	0.59	0.01	3	0.59	0.60
209	A	0.60	0.02	3	0.58	0.62
	B	0.58	0.02	3	0.57	0.60
	C	0.58	0.02	3	0.56	0.60
210	A	0.57	0.02	3	0.55	0.59
	B	0.57	0.01	3	0.56	0.58
	C	0.60	0.02	3	0.57	0.61
ALL	A	0.58	0.03	30	0.53	0.63
	B	0.58	0.02	30	0.51	0.62
	C	0.59	0.03	30	0.49	0.63
	D	0.59	0.02	10	0.58	0.63
	E	0.56	0.03	10	0.50	0.58
	F	0.57	0.01	10	0.55	0.59

Table 1f: Descriptive Statistics
- Amino Acids (cont.)

Parameter=Glutamic acid [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	6.71	0.10	3	6.60	6.77
	B	6.96	0.14	3	6.80	7.08
	C	6.71	0.12	3	6.64	6.85
202	A	6.91	0.05	3	6.85	6.95
	B	7.08	0.15	3	6.92	7.21
	C	6.82	0.10	3	6.70	6.89
203	A	6.74	0.12	3	6.63	6.86
	B	6.87	0.05	3	6.82	6.90
	C	6.87	0.13	3	6.75	7.01
204	A	6.59	0.09	3	6.50	6.68
	B	6.47	0.15	3	6.30	6.56
	C	6.65	0.16	3	6.46	6.75
205	A	6.66	0.13	3	6.51	6.75
	B	6.79	0.29	3	6.52	7.09
	C	6.64	0.11	3	6.52	6.71
206	A	7.02	0.04	3	6.99	7.06
	B	6.92	0.20	3	6.73	7.13
	C	6.99	0.03	3	6.97	7.03
207	A	6.44	0.15	3	6.30	6.60
	B	6.64	0.16	3	6.48	6.79
	C	6.56	0.24	3	6.41	6.84
208	A	6.95	0.31	3	6.63	7.24
	B	6.66	0.09	3	6.57	6.75
	C	6.77	0.36	3	6.36	6.99
209	A	6.81	0.20	3	6.59	6.98
	B	6.77	0.14	3	6.64	6.92
	C	6.70	0.32	3	6.34	6.96
210	A	6.65	0.12	3	6.58	6.79
	B	6.54	0.06	3	6.47	6.58
	C	6.71	0.33	3	6.34	6.96
ALL	A	6.75	0.21	30	6.30	7.24
	B	6.77	0.23	30	6.30	7.21
	C	6.74	0.22	30	6.34	7.03
	D	6.79	0.27	10	6.53	7.23
	E	6.76	0.26	10	6.32	7.22
	F	6.91	0.23	10	6.39	7.14

Table 1f: Descriptive Statistics
- Amino Acids (cont.)

Parameter=Glycine [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	1.67	0.02	3	1.66	1.69
	B	1.69	0.03	3	1.66	1.72
	C	1.68	0.02	3	1.66	1.70
202	A	1.70	0.03	3	1.67	1.72
	B	1.73	0.02	3	1.71	1.75
	C	1.69	0.03	3	1.66	1.71
203	A	1.67	0.02	3	1.66	1.69
	B	1.69	0.01	3	1.69	1.70
	C	1.70	0.02	3	1.68	1.72
204	A	1.65	0.02	3	1.63	1.66
	B	1.63	0.03	3	1.60	1.65
	C	1.66	0.03	3	1.63	1.68
205	A	1.67	0.04	3	1.63	1.70
	B	1.68	0.06	3	1.62	1.73
	C	1.66	0.02	3	1.64	1.67
206	A	1.75	0.01	3	1.74	1.75
	B	1.72	0.03	3	1.69	1.74
	C	1.72	0.02	3	1.71	1.74
207	A	1.62	0.03	3	1.60	1.65
	B	1.66	0.02	3	1.64	1.68
	C	1.64	0.03	3	1.62	1.68
208	A	1.71	0.06	3	1.65	1.76
	B	1.65	0.03	3	1.62	1.68
	C	1.68	0.07	3	1.60	1.72
209	A	1.70	0.04	3	1.66	1.74
	B	1.70	0.03	3	1.67	1.72
	C	1.69	0.05	3	1.64	1.73
210	A	1.68	0.02	3	1.66	1.70
	B	1.66	0.02	3	1.63	1.67
	C	1.69	0.05	3	1.63	1.73
ALL	A	1.68	0.04	30	1.60	1.76
	B	1.68	0.04	30	1.60	1.75
	C	1.68	0.04	30	1.60	1.74
	D	1.66	0.06	10	1.60	1.76
	E	1.61	0.05	10	1.53	1.70
	F	1.67	0.05	10	1.57	1.74

Table 1f: Descriptive Statistics
- Amino Acids (cont.)

Parameter=Histidine [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	1.05	0.01	3	1.04	1.06
	B	1.07	0.02	3	1.05	1.08
	C	1.04	0.02	3	1.03	1.06
202	A	1.06	0.01	3	1.06	1.07
	B	1.08	0.02	3	1.06	1.09
	C	1.06	0.01	3	1.05	1.07
203	A	1.04	0.02	3	1.03	1.06
	B	1.06	0.01	3	1.05	1.07
	C	1.06	0.01	3	1.05	1.07
204	A	1.04	0.02	3	1.02	1.05
	B	1.01	0.02	3	0.99	1.03
	C	1.03	0.02	3	1.01	1.05
205	A	1.02	0.02	3	1.01	1.04
	B	1.05	0.04	3	1.01	1.09
	C	1.03	0.02	3	1.02	1.05
206	A	1.09	0.00	3	1.09	1.09
	B	1.08	0.02	3	1.06	1.09
	C	1.08	0.01	3	1.07	1.09
207	A	1.02	0.02	3	1.00	1.03
	B	1.03	0.02	3	1.02	1.06
	C	1.03	0.02	3	1.02	1.05
208	A	1.06	0.04	3	1.02	1.10
	B	1.03	0.03	3	1.01	1.06
	C	1.04	0.05	3	0.98	1.08
209	A	1.05	0.03	3	1.02	1.07
	B	1.05	0.02	3	1.03	1.07
	C	1.03	0.03	3	0.99	1.06
210	A	1.04	0.02	3	1.02	1.05
	B	1.02	0.02	3	1.00	1.03
	C	1.04	0.04	3	0.99	1.07
ALL	A	1.05	0.03	30	1.00	1.10
	B	1.05	0.03	30	0.99	1.09
	C	1.05	0.03	30	0.98	1.09
	D	1.01	0.03	10	0.98	1.07
	E	1.00	0.04	10	0.93	1.06
	F	1.02	0.03	10	0.97	1.05

Table 1f: Descriptive Statistics
- Amino Acids (cont.)

Parameter=Isoleucine [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	1.82	0.03	3	1.79	1.85
	B	1.82	0.05	3	1.78	1.87
	C	1.79	0.03	3	1.76	1.82
202	A	1.81	0.01	3	1.80	1.82
	B	1.85	0.02	3	1.83	1.86
	C	1.80	0.04	3	1.76	1.84
203	A	1.77	0.04	3	1.73	1.80
	B	1.80	0.04	3	1.76	1.83
	C	1.81	0.03	3	1.79	1.85
204	A	1.77	0.05	3	1.73	1.83
	B	1.78	0.03	3	1.75	1.81
	C	1.79	0.04	3	1.75	1.82
205	A	1.80	0.04	3	1.77	1.85
	B	1.79	0.09	3	1.69	1.87
	C	1.79	0.07	3	1.72	1.86
206	A	1.88	0.05	3	1.82	1.92
	B	1.83	0.04	3	1.79	1.86
	C	1.82	0.02	3	1.80	1.83
207	A	1.77	0.04	3	1.73	1.81
	B	1.76	0.03	3	1.74	1.79
	C	1.75	0.03	3	1.72	1.78
208	A	1.84	0.05	3	1.80	1.89
	B	1.79	0.06	3	1.72	1.82
	C	1.80	0.08	3	1.71	1.86
209	A	1.82	0.07	3	1.74	1.88
	B	1.82	0.05	3	1.76	1.85
	C	1.79	0.07	3	1.71	1.84
210	A	1.79	0.07	3	1.73	1.86
	B	1.75	0.05	3	1.70	1.80
	C	1.77	0.09	3	1.67	1.83
ALL	A	1.81	0.05	30	1.73	1.92
	B	1.80	0.05	30	1.69	1.87
	C	1.79	0.05	30	1.67	1.86
	D	1.81	0.08	10	1.70	1.96
	E	1.75	0.08	10	1.62	1.89
	F	1.76	0.08	10	1.64	1.88

Table 1f: Descriptive Statistics
- Amino Acids (cont.)

Parameter=Leucine [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	2.99	0.03	3	2.96	3.02
	B	3.07	0.06	3	3.01	3.13
	C	2.97	0.04	3	2.94	3.02
202	A	3.04	0.01	3	3.03	3.05
	B	3.08	0.04	3	3.04	3.12
	C	3.02	0.05	3	2.96	3.05
203	A	2.97	0.04	3	2.93	3.00
	B	3.03	0.02	3	3.01	3.04
	C	3.01	0.06	3	2.96	3.07
204	A	2.96	0.06	3	2.89	3.01
	B	2.90	0.06	3	2.84	2.94
	C	2.93	0.06	3	2.87	2.98
205	A	2.94	0.05	3	2.89	2.98
	B	2.97	0.10	3	2.87	3.07
	C	2.94	0.05	3	2.89	2.98
206	A	3.09	0.02	3	3.07	3.10
	B	3.05	0.08	3	2.97	3.12
	C	3.07	0.02	3	3.05	3.08
207	A	2.89	0.05	3	2.84	2.94
	B	2.95	0.05	3	2.91	3.00
	C	2.93	0.05	3	2.89	2.99
208	A	3.07	0.12	3	2.95	3.18
	B	2.96	0.07	3	2.89	3.02
	C	3.00	0.14	3	2.84	3.09
209	A	3.00	0.08	3	2.91	3.05
	B	2.99	0.05	3	2.96	3.05
	C	2.94	0.11	3	2.82	3.04
210	A	2.95	0.06	3	2.90	3.01
	B	2.90	0.03	3	2.87	2.92
	C	2.96	0.13	3	2.81	3.05
ALL	A	2.99	0.08	30	2.84	3.18
	B	2.99	0.08	30	2.84	3.13
	C	2.98	0.08	30	2.81	3.09
	D	2.97	0.09	10	2.87	3.13
	E	2.88	0.10	10	2.71	3.06
	F	2.94	0.08	10	2.75	3.03

Table 1f: Descriptive Statistics
- Amino Acids (cont.)

Parameter=Lysine [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	2.45	0.02	3	2.44	2.47
	B	2.50	0.04	3	2.46	2.54
	C	2.46	0.03	3	2.43	2.48
202	A	2.49	0.01	3	2.48	2.49
	B	2.52	0.03	3	2.49	2.54
	C	2.50	0.03	3	2.47	2.53
203	A	2.47	0.03	3	2.44	2.50
	B	2.52	0.02	3	2.50	2.53
	C	2.50	0.03	3	2.47	2.53
204	A	2.45	0.03	3	2.41	2.47
	B	2.39	0.04	3	2.34	2.42
	C	2.45	0.05	3	2.40	2.49
205	A	2.44	0.03	3	2.42	2.48
	B	2.47	0.08	3	2.40	2.56
	C	2.44	0.03	3	2.41	2.47
206	A	2.57	0.01	3	2.56	2.58
	B	2.55	0.04	3	2.51	2.58
	C	2.54	0.02	3	2.53	2.56
207	A	2.42	0.04	3	2.37	2.45
	B	2.46	0.05	3	2.43	2.51
	C	2.44	0.03	3	2.42	2.47
208	A	2.52	0.10	3	2.42	2.62
	B	2.45	0.07	3	2.38	2.52
	C	2.46	0.12	3	2.33	2.53
209	A	2.50	0.05	3	2.45	2.54
	B	2.49	0.04	3	2.46	2.53
	C	2.47	0.08	3	2.38	2.54
210	A	2.47	0.03	3	2.44	2.49
	B	2.43	0.04	3	2.38	2.45
	C	2.47	0.09	3	2.37	2.54
ALL	A	2.48	0.05	30	2.37	2.62
	B	2.48	0.06	30	2.34	2.58
	C	2.47	0.06	30	2.33	2.56
	D	2.50	0.07	10	2.41	2.64
	E	2.46	0.09	10	2.34	2.62
	F	2.49	0.06	10	2.38	2.57

Table 1f: Descriptive Statistics
- Amino Acids (cont.)

Parameter=Methionine [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	0.53	0.01	3	0.52	0.53
	B	0.52	0.02	3	0.49	0.54
	C	0.54	0.00	3	0.53	0.54
202	A	0.57	0.03	3	0.54	0.60
	B	0.57	0.01	3	0.56	0.58
	C	0.57	0.02	3	0.55	0.58
203	A	0.54	0.02	3	0.51	0.56
	B	0.56	0.01	3	0.55	0.57
	C	0.56	0.01	3	0.55	0.57
204	A	0.53	0.03	3	0.49	0.55
	B	0.52	0.01	3	0.51	0.52
	C	0.54	0.01	3	0.53	0.55
205	A	0.53	0.01	3	0.52	0.54
	B	0.54	0.01	3	0.53	0.55
	C	0.54	0.02	3	0.52	0.56
206	A	0.56	0.00	3	0.55	0.56
	B	0.54	0.01	3	0.53	0.55
	C	0.52	0.05	3	0.46	0.56
207	A	0.53	0.02	3	0.52	0.55
	B	0.54	0.01	3	0.53	0.55
	C	0.53	0.01	3	0.52	0.54
208	A	0.55	0.03	3	0.53	0.58
	B	0.55	0.00	3	0.55	0.55
	C	0.54	0.02	3	0.52	0.56
209	A	0.55	0.02	3	0.53	0.57
	B	0.54	0.01	3	0.53	0.56
	C	0.54	0.02	3	0.51	0.56
210	A	0.52	0.02	3	0.50	0.54
	B	0.53	0.01	3	0.51	0.54
	C	0.55	0.03	3	0.51	0.57
ALL	A	0.54	0.02	30	0.49	0.60
	B	0.54	0.02	30	0.49	0.58
	C	0.54	0.02	30	0.46	0.58
	D	0.56	0.01	10	0.54	0.57
	E	0.54	0.02	10	0.50	0.56
	F	0.55	0.01	10	0.54	0.58

Table 1f: Descriptive Statistics
- Amino Acids (cont.)

Parameter=Phenylalanine [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	1.97	0.02	3	1.96	1.99
	B	2.05	0.04	3	2.02	2.09
	C	1.94	0.03	3	1.92	1.98
202	A	2.00	0.02	3	1.98	2.02
	B	2.02	0.03	3	1.99	2.04
	C	2.01	0.02	3	1.99	2.03
203	A	1.95	0.02	3	1.93	1.97
	B	2.00	0.04	3	1.95	2.02
	C	1.97	0.04	3	1.94	2.01
204	A	1.96	0.06	3	1.90	2.01
	B	1.93	0.04	3	1.89	1.97
	C	1.91	0.04	3	1.86	1.94
205	A	1.94	0.01	3	1.94	1.95
	B	1.94	0.07	3	1.87	2.01
	C	1.94	0.04	3	1.91	1.99
206	A	2.03	0.02	3	2.00	2.04
	B	2.02	0.04	3	1.98	2.06
	C	2.02	0.03	3	2.00	2.05
207	A	1.92	0.02	3	1.90	1.93
	B	1.96	0.05	3	1.92	2.01
	C	1.95	0.02	3	1.93	1.97
208	A	2.02	0.11	3	1.92	2.13
	B	1.95	0.05	3	1.90	2.00
	C	1.95	0.10	3	1.83	2.02
209	A	1.98	0.08	3	1.89	2.05
	B	1.99	0.05	3	1.95	2.05
	C	1.94	0.08	3	1.85	2.01
210	A	1.94	0.04	3	1.90	1.97
	B	1.90	0.02	3	1.88	1.92
	C	1.93	0.08	3	1.84	1.98
ALL	A	1.97	0.05	30	1.89	2.13
	B	1.98	0.06	30	1.87	2.09
	C	1.96	0.06	30	1.83	2.05
	D	1.94	0.06	10	1.88	2.04
	E	1.92	0.08	10	1.83	2.08
	F	1.94	0.05	10	1.85	2.00

Table 1f: Descriptive Statistics
- Amino Acids (cont.)

Parameter=Proline [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	1.84	0.02	3	1.82	1.85
	B	1.87	0.04	3	1.84	1.91
	C	1.81	0.05	3	1.76	1.86
202	A	1.86	0.04	3	1.82	1.90
	B	1.94	0.05	3	1.89	1.98
	C	1.87	0.03	3	1.84	1.89
203	A	1.83	0.03	3	1.79	1.85
	B	1.84	0.03	3	1.82	1.87
	C	1.83	0.03	3	1.80	1.86
204	A	1.77	0.06	3	1.72	1.83
	B	1.77	0.05	3	1.72	1.81
	C	1.85	0.06	3	1.79	1.89
205	A	1.80	0.06	3	1.74	1.84
	B	1.85	0.08	3	1.76	1.91
	C	1.79	0.01	3	1.78	1.80
206	A	1.89	0.02	3	1.87	1.91
	B	1.83	0.09	3	1.76	1.93
	C	1.89	0.03	3	1.86	1.92
207	A	1.73	0.05	3	1.68	1.77
	B	1.80	0.03	3	1.76	1.82
	C	1.79	0.04	3	1.74	1.82
208	A	1.87	0.10	3	1.77	1.97
	B	1.77	0.05	3	1.72	1.82
	C	1.85	0.11	3	1.73	1.94
209	A	1.80	0.08	3	1.71	1.85
	B	1.83	0.02	3	1.81	1.85
	C	1.82	0.08	3	1.72	1.87
210	A	1.76	0.05	3	1.73	1.82
	B	1.77	0.07	3	1.72	1.85
	C	1.75	0.09	3	1.65	1.83
ALL	A	1.82	0.07	30	1.68	1.97
	B	1.83	0.07	30	1.72	1.98
	C	1.82	0.07	30	1.65	1.94
	D	1.84	0.07	10	1.73	1.94
	E	1.78	0.05	10	1.71	1.87
	F	1.86	0.06	10	1.73	1.93

Table 1f: Descriptive Statistics
- Amino Acids (cont.)

Parameter=Serine [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	1.92	0.04	3	1.90	1.97
	B	2.04	0.05	3	2.01	2.10
	C	1.97	0.06	3	1.90	2.01
202	A	2.04	0.03	3	2.00	2.06
	B	2.05	0.05	3	2.00	2.10
	C	2.01	0.04	3	1.98	2.06
203	A	1.99	0.02	3	1.98	2.01
	B	2.02	0.04	3	1.98	2.05
	C	2.02	0.05	3	1.96	2.06
204	A	1.95	0.03	3	1.92	1.97
	B	1.84	0.08	3	1.75	1.91
	C	1.94	0.02	3	1.92	1.96
205	A	1.91	0.07	3	1.86	1.99
	B	1.98	0.04	3	1.96	2.03
	C	1.92	0.08	3	1.83	1.97
206	A	2.02	0.05	3	1.98	2.08
	B	2.04	0.06	3	1.99	2.10
	C	2.07	0.04	3	2.03	2.11
207	A	1.88	0.06	3	1.82	1.92
	B	2.00	0.03	3	1.96	2.02
	C	1.97	0.07	3	1.91	2.05
208	A	2.05	0.10	3	1.95	2.14
	B	1.96	0.03	3	1.93	1.99
	C	1.99	0.06	3	1.92	2.03
209	A	2.00	0.08	3	1.93	2.08
	B	1.97	0.10	3	1.86	2.04
	C	1.98	0.08	3	1.91	2.06
210	A	1.95	0.05	3	1.90	1.99
	B	1.92	0.03	3	1.89	1.95
	C	2.01	0.07	3	1.95	2.08
ALL	A	1.97	0.07	30	1.82	2.14
	B	1.98	0.08	30	1.75	2.10
	C	1.99	0.06	30	1.83	2.11
	D	1.97	0.06	10	1.90	2.13
	E	1.91	0.08	10	1.77	2.01
	F	1.96	0.04	10	1.87	2.02

Table 1f: Descriptive Statistics
- Amino Acids (cont.)

Parameter=Threonine [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	1.53	0.01	3	1.52	1.54
	B	1.58	0.02	3	1.56	1.60
	C	1.51	0.03	3	1.48	1.53
202	A	1.59	0.01	3	1.58	1.59
	B	1.57	0.03	3	1.55	1.60
	C	1.59	0.03	3	1.57	1.62
203	A	1.55	0.02	3	1.53	1.57
	B	1.58	0.03	3	1.56	1.61
	C	1.55	0.01	3	1.54	1.56
204	A	1.53	0.05	3	1.48	1.57
	B	1.48	0.04	3	1.45	1.52
	C	1.49	0.04	3	1.45	1.52
205	A	1.52	0.01	3	1.51	1.52
	B	1.52	0.03	3	1.50	1.55
	C	1.52	0.03	3	1.49	1.54
206	A	1.58	0.01	3	1.57	1.59
	B	1.59	0.01	3	1.58	1.60
	C	1.58	0.03	3	1.56	1.62
207	A	1.51	0.03	3	1.48	1.53
	B	1.56	0.03	3	1.53	1.59
	C	1.54	0.01	3	1.53	1.54
208	A	1.58	0.08	3	1.51	1.66
	B	1.53	0.05	3	1.49	1.58
	C	1.52	0.05	3	1.47	1.57
209	A	1.55	0.02	3	1.53	1.56
	B	1.56	0.04	3	1.53	1.60
	C	1.51	0.06	3	1.45	1.56
210	A	1.52	0.03	3	1.50	1.55
	B	1.49	0.01	3	1.48	1.50
	C	1.52	0.07	3	1.44	1.57
ALL	A	1.55	0.04	30	1.48	1.66
	B	1.54	0.04	30	1.45	1.61
	C	1.53	0.04	30	1.44	1.62
	D	1.55	0.03	10	1.52	1.62
	E	1.50	0.05	10	1.44	1.60
	F	1.53	0.03	10	1.49	1.60

Table 1f: Descriptive Statistics
- Amino Acids (cont.)

Parameter=Tryptophan [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	0.47	0.04	3	0.43	0.49
	B	0.44	0.05	3	0.38	0.47
	C	0.44	0.01	3	0.43	0.45
202	A	0.43	0.01	3	0.42	0.44
	B	0.42	0.02	3	0.40	0.43
	C	0.47	0.03	3	0.45	0.50
203	A	0.46	0.04	3	0.42	0.49
	B	0.44	0.01	3	0.43	0.45
	C	0.43	0.02	3	0.41	0.45
204	A	0.45	0.03	3	0.42	0.47
	B	0.46	0.02	3	0.45	0.48
	C	0.46	0.01	3	0.45	0.47
205	A	0.45	0.04	3	0.40	0.48
	B	0.42	0.03	3	0.40	0.45
	C	0.44	0.04	3	0.40	0.48
206	A	0.49	0.02	3	0.47	0.50
	B	0.44	0.01	3	0.43	0.45
	C	0.45	0.03	3	0.41	0.47
207	A	0.46	0.01	3	0.45	0.47
	B	0.42	0.02	3	0.40	0.44
	C	0.43	0.03	3	0.39	0.45
208	A	0.44	0.04	3	0.41	0.48
	B	0.45	0.02	3	0.44	0.48
	C	0.45	0.04	3	0.40	0.47
209	A	0.45	0.04	3	0.42	0.49
	B	0.45	0.04	3	0.40	0.47
	C	0.44	0.02	3	0.42	0.46
210	A	0.44	0.04	3	0.41	0.48
	B	0.45	0.01	3	0.44	0.46
	C	0.41	0.02	3	0.39	0.43
ALL	A	0.45	0.03	30	0.40	0.50
	B	0.44	0.03	30	0.38	0.48
	C	0.44	0.03	30	0.39	0.50
	D	0.48	0.03	10	0.43	0.54
	E	0.44	0.03	10	0.39	0.49
	F	0.46	0.03	10	0.43	0.51

Table 1f: Descriptive Statistics
- Amino Acids (cont.)

Parameter=Tyrosine [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	1.40	0.02	3	1.38	1.42
	B	1.44	0.02	3	1.42	1.46
	C	1.40	0.03	3	1.38	1.43
202	A	1.42	0.03	3	1.39	1.45
	B	1.41	0.05	3	1.36	1.46
	C	1.42	0.02	3	1.40	1.44
203	A	1.39	0.04	3	1.34	1.42
	B	1.42	0.01	3	1.41	1.43
	C	1.40	0.02	3	1.39	1.42
204	A	1.40	0.02	3	1.38	1.42
	B	1.34	0.02	3	1.33	1.37
	C	1.34	0.05	3	1.30	1.39
205	A	1.38	0.01	3	1.38	1.39
	B	1.39	0.05	3	1.36	1.44
	C	1.36	0.01	3	1.35	1.37
206	A	1.45	0.02	3	1.43	1.47
	B	1.43	0.02	3	1.41	1.45
	C	1.43	0.03	3	1.39	1.45
207	A	1.35	0.06	3	1.28	1.39
	B	1.40	0.02	3	1.39	1.42
	C	1.39	0.03	3	1.36	1.42
208	A	1.45	0.04	3	1.41	1.49
	B	1.38	0.04	3	1.35	1.43
	C	1.40	0.04	3	1.36	1.43
209	A	1.42	0.05	3	1.37	1.47
	B	1.41	0.05	3	1.35	1.44
	C	1.41	0.05	3	1.37	1.46
210	A	1.39	0.03	3	1.36	1.41
	B	1.38	0.02	3	1.37	1.40
	C	1.41	0.06	3	1.34	1.45
ALL	A	1.40	0.04	30	1.28	1.49
	B	1.40	0.04	30	1.33	1.46
	C	1.40	0.04	30	1.30	1.46
	D	1.40	0.04	10	1.36	1.48
	E	1.37	0.04	10	1.32	1.44
	F	1.39	0.03	10	1.33	1.42

Table 1f: Descriptive Statistics
- Amino Acids (cont.)

Parameter=Valine [%dm]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	1.92	0.04	3	1.88	1.96
	B	1.90	0.05	3	1.85	1.94
	C	1.90	0.04	3	1.86	1.93
202	A	1.89	0.03	3	1.86	1.91
	B	1.95	0.02	3	1.93	1.96
	C	1.87	0.04	3	1.84	1.91
203	A	1.85	0.04	3	1.81	1.89
	B	1.89	0.02	3	1.87	1.91
	C	1.92	0.03	3	1.89	1.95
204	A	1.86	0.05	3	1.82	1.91
	B	1.86	0.03	3	1.83	1.89
	C	1.88	0.04	3	1.83	1.91
205	A	1.88	0.06	3	1.84	1.95
	B	1.89	0.10	3	1.78	1.98
	C	1.86	0.08	3	1.77	1.93
206	A	1.97	0.05	3	1.92	2.01
	B	1.91	0.05	3	1.86	1.95
	C	1.91	0.03	3	1.88	1.93
207	A	1.83	0.04	3	1.81	1.88
	B	1.82	0.03	3	1.79	1.85
	C	1.81	0.04	3	1.77	1.84
208	A	1.91	0.04	3	1.87	1.94
	B	1.86	0.05	3	1.80	1.89
	C	1.88	0.10	3	1.77	1.95
209	A	1.89	0.07	3	1.81	1.95
	B	1.89	0.04	3	1.84	1.91
	C	1.87	0.08	3	1.78	1.92
210	A	1.86	0.08	3	1.80	1.95
	B	1.83	0.05	3	1.78	1.87
	C	1.85	0.09	3	1.75	1.92
ALL	A	1.89	0.06	30	1.80	2.01
	B	1.88	0.05	30	1.78	1.98
	C	1.87	0.06	30	1.75	1.95
	D	1.87	0.09	10	1.76	2.03
	E	1.83	0.09	10	1.66	1.96
	F	1.84	0.09	10	1.71	1.98

Table 1g: Descriptive Statistics
- Fatty Acids

Parameter=C16:0 Palmitic [% rel]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	9.97	0.05	3	9.91	10.00
	B	9.31	0.10	3	9.22	9.42
	C	9.36	0.04	3	9.32	9.40
202	A	10.40	0.46	3	10.00	10.90
	B	9.16	0.08	3	9.11	9.25
	C	9.57	0.73	3	9.03	10.40
203	A	9.94	0.06	3	9.89	10.00
	B	9.21	0.12	3	9.08	9.31
	C	9.21	0.04	3	9.18	9.26
204	A	9.90	0.13	3	9.75	10.00
	B	9.24	0.08	3	9.16	9.31
	C	9.36	0.09	3	9.27	9.44
205	A	9.92	0.07	3	9.86	9.99
	B	9.30	0.07	3	9.24	9.37
	C	9.31	0.08	3	9.22	9.37
206	A	10.10	0.10	3	10.00	10.20
	B	9.55	0.03	3	9.52	9.57
	C	9.44	0.09	3	9.39	9.55
207	A	10.20	0.10	3	10.10	10.30
	B	9.56	0.02	3	9.54	9.58
	C	9.54	0.03	3	9.51	9.57
208	A	10.27	0.06	3	10.20	10.30
	B	9.51	0.03	3	9.48	9.54
	C	9.49	0.05	3	9.44	9.54
209	A	9.87	0.04	3	9.83	9.91
	B	9.11	0.10	3	9.02	9.21
	C	9.19	0.05	3	9.14	9.22
210	A	10.03	0.06	3	10.00	10.10
	B	9.44	0.13	3	9.29	9.54
	C	9.37	0.03	3	9.35	9.41
ALL	A	10.06	0.22	30	9.75	10.90
	B	9.34	0.17	30	9.02	9.58
	C	9.38	0.23	30	9.03	10.40
	D	10.39	0.17	10	10.10	10.70
	E	9.90	0.10	10	9.78	10.10
	F	11.10	0.16	10	10.90	11.40

Table 1g: Descriptive Statistics
- Fatty Acids (cont.)

Parameter=C18:0 Stearic [% rel]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	4.13	0.07	3	4.07	4.21
	B	4.38	0.05	3	4.32	4.41
	C	4.47	0.04	3	4.44	4.52
202	A	4.20	0.04	3	4.16	4.23
	B	4.52	0.03	3	4.50	4.56
	C	4.30	0.44	3	3.80	4.62
203	A	4.17	0.03	3	4.14	4.20
	B	4.52	0.05	3	4.49	4.58
	C	4.50	0.03	3	4.48	4.54
204	A	4.42	0.07	3	4.34	4.47
	B	4.67	0.12	3	4.53	4.75
	C	4.71	0.06	3	4.66	4.77
205	A	4.34	0.05	3	4.30	4.39
	B	4.61	0.11	3	4.49	4.71
	C	4.55	0.09	3	4.48	4.65
206	A	4.23	0.01	3	4.22	4.24
	B	4.41	0.05	3	4.36	4.44
	C	4.38	0.04	3	4.33	4.41
207	A	4.30	0.03	3	4.28	4.34
	B	4.50	0.07	3	4.44	4.58
	C	4.41	0.08	3	4.32	4.48
208	A	4.17	0.04	3	4.13	4.21
	B	4.26	0.04	3	4.23	4.30
	C	4.36	0.10	3	4.25	4.42
209	A	4.66	0.04	3	4.63	4.70
	B	4.93	0.11	3	4.84	5.05
	C	4.98	0.09	3	4.90	5.08
210	A	4.14	0.02	3	4.13	4.17
	B	4.38	0.07	3	4.33	4.46
	C	4.41	0.05	3	4.37	4.46
ALL	A	4.28	0.16	30	4.07	4.70
	B	4.52	0.19	30	4.23	5.05
	C	4.51	0.23	30	3.80	5.08
	D	3.79	0.22	10	3.49	4.26
	E	4.43	0.21	10	4.19	4.81
	F	4.17	0.20	10	3.96	4.57

Table 1g: Descriptive Statistics
- Fatty Acids (cont.)

Parameter=C18:1 Oleic [% rel]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	21.50	0.10	3	21.40	21.60
	B	23.97	0.15	3	23.80	24.10
	C	22.93	0.15	3	22.80	23.10
202	A	22.40	2.46	3	20.10	25.00
	B	25.73	0.50	3	25.20	26.20
	C	23.50	1.15	3	22.40	24.70
203	A	21.83	0.12	3	21.70	21.90
	B	24.90	0.00	3	24.90	24.90
	C	24.30	0.26	3	24.10	24.60
204	A	21.43	0.25	3	21.20	21.70
	B	24.10	0.52	3	23.50	24.40
	C	23.57	0.23	3	23.30	23.70
205	A	21.97	0.21	3	21.80	22.20
	B	24.47	0.67	3	23.90	25.20
	C	24.33	0.12	3	24.20	24.40
206	A	20.73	0.46	3	20.20	21.00
	B	23.33	0.15	3	23.20	23.50
	C	23.93	0.60	3	23.30	24.50
207	A	21.80	0.26	3	21.50	22.00
	B	24.13	0.50	3	23.60	24.60
	C	23.97	0.50	3	23.50	24.50
208	A	22.40	0.26	3	22.10	22.60
	B	24.50	0.30	3	24.20	24.80
	C	24.40	0.40	3	24.00	24.80
209	A	23.90	0.10	3	23.80	24.00
	B	26.77	0.38	3	26.50	27.20
	C	26.07	0.21	3	25.90	26.30
210	A	21.77	0.21	3	21.60	22.00
	B	24.60	0.17	3	24.40	24.70
	C	24.23	0.47	3	23.70	24.60
ALL	A	21.97	1.05	30	20.10	25.00
	B	24.65	0.99	30	23.20	27.20
	C	24.12	0.90	30	22.40	26.30
	D	22.21	0.89	10	21.10	24.10
	E	22.53	0.94	10	21.20	24.10
	F	22.53	0.80	10	21.30	23.50

Table 1g: Descriptive Statistics
- Fatty Acids (cont.)

Parameter=C18:2 Linoleic [% rel]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	55.20	0.20	3	55.00	55.40
	B	53.60	0.17	3	53.40	53.70
	C	54.17	0.12	3	54.10	54.30
202	A	53.87	2.10	3	51.70	55.90
	B	51.37	0.40	3	51.00	51.80
	C	53.33	1.31	3	52.10	54.70
203	A	54.23	0.15	3	54.10	54.40
	B	51.97	0.06	3	51.90	52.00
	C	52.43	0.31	3	52.10	52.70
204	A	54.87	0.23	3	54.60	55.00
	B	52.90	0.52	3	52.60	53.50
	C	53.27	0.21	3	53.10	53.50
205	A	55.00	0.10	3	54.90	55.10
	B	53.03	0.50	3	52.50	53.50
	C	53.03	0.06	3	53.00	53.10
206	A	55.17	0.47	3	54.80	55.70
	B	53.37	0.15	3	53.20	53.50
	C	52.97	0.50	3	52.50	53.50
207	A	54.70	0.26	3	54.50	55.00
	B	53.07	0.55	3	52.50	53.60
	C	53.37	0.49	3	52.80	53.70
208	A	54.60	0.10	3	54.50	54.70
	B	53.37	0.21	3	53.20	53.60
	C	53.47	0.31	3	53.20	53.80
209	A	52.93	0.06	3	52.90	53.00
	B	50.83	0.21	3	50.60	51.00
	C	51.43	0.21	3	51.20	51.60
210	A	55.00	0.20	3	54.80	55.20
	B	53.03	0.21	3	52.80	53.20
	C	53.33	0.42	3	53.00	53.80
ALL	A	54.56	0.90	30	51.70	55.90
	B	52.65	0.95	30	50.60	53.70
	C	53.08	0.82	30	51.20	54.70
	D	54.48	0.69	10	53.00	55.40
	E	53.29	0.68	10	51.80	54.10
	F	52.33	0.48	10	51.50	52.90

Table 1g: Descriptive Statistics
- Fatty Acids (cont.)

Parameter=C18:3 Linolenic [% rel]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	8.44	0.10	3	8.37	8.55
	B	7.96	0.23	3	7.69	8.10
	C	8.22	0.09	3	8.14	8.31
202	A	8.32	0.83	3	7.37	8.84
	B	8.40	0.06	3	8.36	8.46
	C	8.41	0.60	3	7.72	8.82
203	A	9.07	0.08	3	8.98	9.14
	B	8.49	0.23	3	8.23	8.65
	C	8.69	0.10	3	8.58	8.77
204	A	8.57	0.04	3	8.53	8.60
	B	8.23	0.09	3	8.15	8.32
	C	8.18	0.02	3	8.15	8.19
205	A	7.91	0.06	3	7.87	7.98
	B	7.75	0.17	3	7.62	7.95
	C	7.90	0.08	3	7.84	7.99
206	A	8.80	0.11	3	8.68	8.87
	B	8.53	0.10	3	8.44	8.64
	C	8.50	0.07	3	8.44	8.57
207	A	8.12	0.09	3	8.03	8.21
	B	7.73	0.02	3	7.71	7.75
	C	7.75	0.09	3	7.64	7.82
208	A	7.74	0.11	3	7.62	7.84
	B	7.46	0.08	3	7.37	7.53
	C	7.44	0.11	3	7.35	7.56
209	A	7.65	0.09	3	7.55	7.71
	B	7.27	0.04	3	7.24	7.31
	C	7.27	0.04	3	7.22	7.29
210	A	8.12	0.05	3	8.07	8.16
	B	7.60	0.07	3	7.54	7.68
	C	7.70	0.08	3	7.60	7.75
ALL	A	8.27	0.50	30	7.37	9.14
	B	7.94	0.45	30	7.24	8.65
	C	8.01	0.48	30	7.22	8.82
	D	8.34	0.56	10	7.59	9.34
	E	8.97	0.64	10	8.25	9.80
	F	9.09	0.72	10	8.34	10.30

Table 1g: Descriptive Statistics
- Fatty Acids (cont.)

Parameter=C20:0 Arachidic [% rel]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	0.291	0.014	3	0.277	0.305
	B	0.306	0.011	3	0.295	0.316
	C	0.318	0.006	3	0.314	0.324
202	A	0.317	0.007	3	0.313	0.325
	B	0.329	0.004	3	0.324	0.332
	C	0.309	0.031	3	0.274	0.334
203	A	0.300	0.010	3	0.289	0.306
	B	0.323	0.002	3	0.321	0.324
	C	0.323	0.002	3	0.321	0.325
204	A	0.315	0.008	3	0.306	0.322
	B	0.328	0.011	3	0.315	0.336
	C	0.333	0.002	3	0.331	0.335
205	A	0.309	0.013	3	0.295	0.320
	B	0.329	0.011	3	0.318	0.340
	C	0.320	0.005	3	0.314	0.324
206	A	0.313	0.003	3	0.311	0.316
	B	0.320	0.004	3	0.315	0.323
	C	0.319	0.003	3	0.316	0.322
207	A	0.318	0.003	3	0.315	0.321
	B	0.323	0.007	3	0.318	0.331
	C	0.317	0.006	3	0.310	0.322
208	A	0.307	0.003	3	0.304	0.310
	B	0.303	0.002	3	0.301	0.305
	C	0.312	0.006	3	0.305	0.317
209	A	0.345	0.014	3	0.330	0.357
	B	0.363	0.008	3	0.358	0.372
	C	0.369	0.011	3	0.361	0.381
210	A	0.307	0.001	3	0.306	0.307
	B	0.318	0.006	3	0.312	0.324
	C	0.320	0.003	3	0.318	0.323
ALL	A	0.312	0.015	30	0.277	0.357
	B	0.324	0.017	30	0.295	0.372
	C	0.324	0.019	30	0.274	0.381
	D	0.268	0.016	10	0.252	0.307
	E	0.318	0.019	10	0.298	0.353
	F	0.316	0.020	10	0.281	0.349

Table 1g: Descriptive Statistics
- Fatty Acids (cont.)

Parameter=C20:1 Eicosenoic [% rel]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	0.148	0.001	3	0.147	0.148
	B	0.153	0.004	3	0.150	0.158
	C	0.152	0.001	3	0.151	0.153
202	A	0.161	0.029	3	0.142	0.194
	B	0.154	0.002	3	0.153	0.156
	C	0.153	0.005	3	0.149	0.158
203	A	0.152	0.002	3	0.151	0.154
	B	0.154	0.003	3	0.151	0.156
	C	0.156	0.002	3	0.154	0.157
204	A	0.154	0.003	3	0.151	0.157
	B	0.161	0.002	3	0.159	0.162
	C	0.166	0.004	3	0.161	0.169
205	A	0.162	0.002	3	0.160	0.163
	B	0.162	0.002	3	0.161	0.164
	C	0.161	0.003	3	0.158	0.163
206	A	0.157	0.002	3	0.155	0.159
	B	0.162	0.002	3	0.160	0.163
	C	0.163	0.002	3	0.162	0.165
207	A	0.166	0.003	3	0.163	0.169
	B	0.170	0.002	3	0.169	0.172
	C	0.170	0.001	3	0.169	0.171
208	A	0.167	0.002	3	0.165	0.168
	B	0.171	0.005	3	0.166	0.175
	C	0.175	0.003	3	0.173	0.178
209	A	0.176	0.005	3	0.171	0.181
	B	0.183	0.006	3	0.180	0.190
	C	0.190	0.005	3	0.185	0.194
210	A	0.166	0.003	3	0.163	0.168
	B	0.176	0.003	3	0.173	0.179
	C	0.177	0.005	3	0.173	0.183
ALL	A	0.161	0.011	30	0.142	0.194
	B	0.165	0.010	30	0.150	0.190
	C	0.166	0.012	30	0.149	0.194
	D	0.159	0.011	10	0.145	0.177
	E	0.158	0.009	10	0.145	0.173
	F	0.161	0.023	10	0.100	0.178

Table 1g: Descriptive Statistics
- Fatty Acids (cont.)

Parameter=C22:0 Behenic [% rel]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	0.311	0.008	3	0.302	0.317
	B	0.326	0.004	3	0.322	0.329
	C	0.334	0.009	3	0.326	0.343
202	A	0.326	0.014	3	0.312	0.340
	B	0.345	0.008	3	0.336	0.351
	C	0.316	0.054	3	0.257	0.362
203	A	0.318	0.001	3	0.318	0.319
	B	0.337	0.005	3	0.332	0.342
	C	0.332	0.003	3	0.330	0.336
204	A	0.312	0.002	3	0.311	0.315
	B	0.324	0.007	3	0.318	0.332
	C	0.326	0.008	3	0.318	0.334
205	A	0.319	0.003	3	0.317	0.322
	B	0.332	0.010	3	0.324	0.344
	C	0.321	0.003	3	0.319	0.324
206	A	0.323	0.007	3	0.316	0.330
	B	0.339	0.001	3	0.339	0.340
	C	0.332	0.006	3	0.327	0.339
207	A	0.324	0.005	3	0.319	0.327
	B	0.324	0.002	3	0.322	0.326
	C	0.317	0.008	3	0.309	0.324
208	A	0.309	0.002	3	0.307	0.311
	B	0.312	0.005	3	0.308	0.317
	C	0.318	0.005	3	0.312	0.321
209	A	0.333	0.006	3	0.328	0.339
	B	0.345	0.006	3	0.339	0.350
	C	0.346	0.004	3	0.343	0.351
210	A	0.316	0.002	3	0.314	0.317
	B	0.320	0.003	3	0.317	0.323
	C	0.322	0.004	3	0.318	0.326
ALL	A	0.319	0.009	30	0.302	0.340
	B	0.330	0.012	30	0.308	0.351
	C	0.327	0.017	30	0.257	0.362
	D	0.270	0.010	10	0.254	0.286
	E	0.316	0.012	10	0.298	0.332
	F	0.331	0.012	10	0.309	0.352

Table 1g: Descriptive Statistics
- Fatty Acids (cont.)

Parameter=C24:0 Lignoceric [% rel]

Site	Regimen	Mean	SD	N	Minimum	Maximum
201	A	0.100	0.000	3	0.100	0.100
	B	0.100	0.000	3	0.100	0.100
	C	0.115	0.025	3	0.100	0.144
202	A	0.100	0.000	3	0.100	0.100
	B	0.100	0.000	3	0.100	0.100
	C	0.109	0.016	3	0.100	0.128
203	A	0.100	0.000	3	0.100	0.100
	B	0.119	0.018	3	0.100	0.135
	C	0.112	0.020	3	0.100	0.135
204	A	0.104	0.007	3	0.100	0.112
	B	0.107	0.013	3	0.100	0.122
	C	0.107	0.012	3	0.100	0.121
205	A	0.113	0.022	3	0.100	0.138
	B	0.100	0.000	3	0.100	0.100
	C	0.123	0.027	3	0.100	0.152
206	A	0.121	0.018	3	0.100	0.133
	B	0.100	0.000	3	0.100	0.100
	C	0.100	0.000	3	0.100	0.100
207	A	0.105	0.008	3	0.100	0.114
	B	0.134	0.006	3	0.127	0.139
	C	0.133	0.004	3	0.128	0.136
208	A	0.100	0.000	3	0.100	0.100
	B	0.126	0.010	3	0.119	0.138
	C	0.106	0.010	3	0.100	0.117
209	A	0.148	0.012	3	0.138	0.162
	B	0.160	0.010	3	0.149	0.167
	C	0.165	0.006	3	0.159	0.171
210	A	0.143	0.012	3	0.135	0.157
	B	0.141	0.010	3	0.130	0.149
	C	0.155	0.012	3	0.141	0.165
ALL	A	0.113	0.020	30	0.100	0.162
	B	0.119	0.022	30	0.100	0.167
	C	0.122	0.025	30	0.100	0.171
	D	0.116	0.021	10	0.100	0.145
	E	0.114	0.015	10	0.100	0.137
	F	0.100	0.000	10	0.100	0.100

Table 2a: Results from ANOVA
- Proximate and Fibre Compounds

Parameter	DF	R ²	p-values from ANOVA			Regimen	MEAN	95% CI		p-value t-test
			REGIMEN (R)	SITE (S)	R*S			lower bound	upper bound	
Moisture	29	0.58	0.499	<.001	0.234	A	9.51	9.28	9.75	0.423 0.728
						B	9.65	9.41	9.88	
						C	9.45	9.22	9.69	
						A vs B	-0.14	-0.47	0.20	
						A vs C	0.06	-0.28	0.39	
Protein	29	0.68	0.799	<.001	0.277	A	38.16	37.92	38.39	0.794 0.688
						B	38.20	37.97	38.43	
						C	38.09	37.86	38.32	
						A vs B	-0.04	-0.37	0.29	
						A vs C	0.07	-0.26	0.40	
Total Fat	29	0.63	0.064	<.001	0.146	A	19.31	19.02	19.61	0.030 0.749
						B	18.85	18.56	19.15	
						C	19.25	18.95	19.54	
						A vs B	0.46	0.05	0.87	
						A vs C	0.07	-0.35	0.48	
Ash	29	0.73	<.001	<.001	0.568	A	5.24	5.17	5.31	0.001 <.001
						B	5.07	5.00	5.14	
						C	5.06	4.99	5.13	
						A vs B	0.17	0.07	0.27	
						A vs C	0.18	0.08	0.28	
Carbohydrates	29	0.68	0.027	<.001	0.012	A	37.30	37.00	37.59	0.008 0.149
						B	37.88	37.58	38.17	
						C	37.60	37.31	37.90	
						A vs B	-0.58	-1.00	-0.16	
						A vs C	-0.31	-0.73	0.11	
Acid Detergent Fibre	29	0.36	0.832	0.166	0.342	A	17.79	17.13	18.45	0.546 0.776
						B	18.07	17.41	18.73	
						C	17.92	17.26	18.58	
						A vs B	-0.28	-1.22	0.65	
						A vs C	-0.13	-1.07	0.80	
Neutral Detergent Fibre	29	0.37	0.500	0.044	0.637	A	19.80	19.15	20.46	0.246 0.661
						B	20.34	19.69	21.00	
						C	20.01	19.35	20.66	
						A vs B	-0.54	-1.46	0.38	
						A vs C	-0.20	-1.13	0.72	

ANOVA with the main factors regimen (R) and site (S) and the interaction term
regimen*site (R*S)

Table 2b: Results from ANOVA
- Minerals

Parameter	DF	R ²	p-values from ANOVA			Regimen	MEAN	95% CI		p-value t-test
			REGIMEN (R)	SITE (S)	R*S			lower bound	upper bound	
Calcium	29	0.92	<.001	<.001	0.058	A	0.282	0.279	0.286	<.001
						B	0.258	0.255	0.262	
						C	0.259	0.255	0.262	
						A vs B	0.024	0.019	0.029	
						A vs C	0.024	0.019	0.028	
Phosphorus	29	0.88	0.490	<.001	0.151	A	0.626	0.616	0.635	0.252
						B	0.618	0.609	0.627	
						C	0.620	0.611	0.629	
						A vs B	0.008	-.006	0.021	
						A vs C	0.006	-.007	0.019	
Potassium	29	0.79	<.001	<.001	0.006	A	1.93	1.91	1.95	<.001
						B	1.85	1.83	1.87	
						C	1.85	1.83	1.87	
						A vs B	0.08	0.06	0.11	
						A vs C	0.08	0.06	0.11	
Magnesium	29	0.81	<.001	<.001	0.065	A	0.241	0.238	0.243	<.001
						B	0.226	0.224	0.229	
						C	0.226	0.224	0.228	
						A vs B	0.014	0.011	0.018	
						A vs C	0.015	0.011	0.018	
Sodium	29	0.42	0.010	0.214	0.279	A	0.012	0.009	0.014	0.019
						B	0.015	0.013	0.018	
						C	0.016	0.014	0.019	
						A vs B	-.004	-.007	-.001	
						A vs C	-.005	-.008	-.002	
Iron	29	0.58	0.127	<.001	0.303	A	93.3	85.4	101.3	0.062
						B	82.6	74.6	90.6	
						C	84.1	76.1	92.0	
						A vs B	10.7	-0.5	22.0	
						A vs C	9.3	-2.0	20.5	

ANOVA with the main factors regimen (R) and site (S) and the interaction term
regimen*site (R*S)

Table 2c: Results from ANOVA
- Vitamins

Parameter	DF	R ²	p-values from ANOVA			Regimen	MEAN	95% CI		p-value t-test
			REGIMEN (R)	SITE (S)	R*S			lower bound	upper bound	
Vitamin B1	29	0.76	0.009	<.001	0.072	A	3.59	3.40	3.78	0.279 0.003
						B	3.44	3.25	3.63	
						C	3.16	2.96	3.35	
						A vs B	0.15	-0.12	0.42	
						A vs C	0.43	0.16	0.71	
Vitamin B2	29	0.24	0.253	0.588	0.956	A	4.42	4.08	4.76	0.694 0.113
						B	4.52	4.18	4.85	
						C	4.80	4.47	5.14	
						A vs B	-0.09	-0.57	0.38	
						A vs C	-0.38	-0.86	0.09	
Folic Acid	29	0.56	0.117	<.001	0.491	A	2.976	2.877	3.075	0.194 0.041
						B	3.068	2.969	3.167	
						C	3.122	3.023	3.221	
						A vs B	-.092	-.232	0.048	
						A vs C	-.146	-.286	-.006	
Vitamin A	29	0.97	<.001	<.001	<.001	A	0.217	0.210	0.225	<.001 <.001
						B	0.261	0.254	0.269	
						C	0.284	0.276	0.291	
						A vs B	-.044	-.054	-.033	
						A vs C	-.066	-.077	-.056	
Vitamin K	29	0.65	0.261	<.001	0.030	A	0.191	0.171	0.212	0.400 0.103
						B	0.203	0.183	0.224	
						C	0.215	0.195	0.236	
						A vs B	-.012	-.041	0.017	
						A vs C	-.024	-.053	0.005	
Alpha Tocopherol	29	0.91	<.001	<.001	0.003	A	17.4	16.7	18.1	0.003 <.001
						B	19.0	18.3	19.7	
						C	20.7	20.0	21.4	
						A vs B	-1.6	-2.5	-0.6	
						A vs C	-3.3	-4.3	-2.3	
Gamma Tocopherol	29	0.79	0.038	<.001	0.076	A	194.8	192.1	197.6	0.011 0.132
						B	200.0	197.2	202.7	
						C	197.8	195.1	200.6	
						A vs B	-5.1	-9.1	-1.2	
						A vs C	-3.0	-6.9	0.9	
Delta Tocopherol	29	0.89	0.408	<.001	0.014	A	74.1	72.7	75.4	0.257 0.964
						B	75.2	73.8	76.5	
						C	74.0	72.7	75.4	
						A vs B	-1.1	-3.0	0.8	
						A vs C	0.0	-1.9	2.0	
Total Tocopherol	29	0.63	0.017	<.001	0.130	A	286.4	282.4	290.3	0.007 0.031
						B	294.2	290.3	298.1	
						C	292.5	288.6	296.4	
						A vs B	-7.8	-13.4	-2.3	
						A vs C	-6.1	-11.7	-0.6	

ANOVA with the main factors regimen (R) and site (S) and the interaction term
regimen*site (R*S)

Table 2d: Results from ANOVA
- Anti-nutrients

Parameter	DF	R ²	p-values from ANOVA			Regimen	MEAN	95% CI		p-value t-test
			REGIMEN (R)	SITE (S)	R*S			lower bound	upper bound	
Phytic Acid	29	0.82	0.140	<.001	0.122	A	1.40	1.36	1.44	0.356 0.049
						B	1.37	1.34	1.41	
						C	1.35	1.31	1.38	
						A vs B	0.03	-0.03	0.08	
						A vs C	0.06	0.00	0.11	
Raffinose	29	0.76	0.035	<.001	0.106	A	0.361	0.350	0.372	0.027 0.022
						B	0.378	0.367	0.389	
						C	0.379	0.368	0.390	
						A vs B	-.018	-.033	-.002	
						A vs C	-.018	-.034	-.003	
Stachyose	29	0.34	0.272	0.048	0.915	A	2.49	2.42	2.56	0.196 0.849
						B	2.42	2.35	2.49	
						C	2.50	2.43	2.57	
						A vs B	0.07	-0.04	0.17	
						A vs C	-0.01	-0.11	0.09	
Lectin	29	0.29	0.054	0.739	0.836	A	1.74	1.55	1.94	0.016 0.155
						B	1.40	1.20	1.60	
						C	1.54	1.35	1.74	
						A vs B	0.34	0.07	0.62	
						A vs C	0.20	-0.08	0.48	
Trypsin inhibitor	29	0.40	0.041	0.016	0.879	A	33.00	30.83	35.17	0.061 0.564
						B	30.07	27.90	32.24	
						C	33.89	31.72	36.06	
						A vs B	2.93	-0.14	6.00	
						A vs C	-0.89	-3.96	2.18	

ANOVA with the main factors regimen (R) and site (S) and the interaction term
regimen*site (R*S)

Table 2e: Results from ANOVA
- Isoflavones

Parameter	DF	R ²	p-values from ANOVA			Regimen	MEAN	95% CI		p-value t-test
			REGIMEN (R)	SITE (S)	R*S			lower bound	upper bound	
Daidzein	29	0.40	0.155	0.113	0.292	A	11.00	10.48	11.52	0.428 0.056
						B	10.71	10.19	11.23	
						C	10.28	9.76	10.80	
						A vs B	0.29	-0.44	1.03	
						A vs C	0.72	-0.02	1.45	
Genistein	29	0.75	<.001	<.001	0.010	A	11.48	11.11	11.86	0.327 <.001
						B	11.22	10.85	11.60	
						C	10.46	10.09	10.84	
						A vs B	0.26	-0.27	0.79	
						A vs C	1.02	0.49	1.55	
Daidzin	29	0.92	0.320	<.001	0.562	A	1035	991	1079	0.976 0.187
						B	1034	990	1078	
						C	994	950	1038	
						A vs B	1	-61	63	
						A vs C	42	-21	104	
Glycitin	29	0.62	<.001	<.001	0.887	A	365	352	379	<.001 <.001
						B	414	401	428	
						C	400	386	414	
						A vs B	-49	-69	-30	
						A vs C	-35	-54	-15	
Genistin	29	0.94	<.001	<.001	0.812	A	1817	1767	1867	<.001 <.001
						B	1682	1632	1732	
						C	1640	1591	1690	
						A vs B	135	65	205	
						A vs C	177	107	247	
Total Isoflavones	29	0.92	0.030	<.001	0.816	A	2010	1948	2071	0.201 0.008
						B	1953	1892	2015	
						C	1891	1829	1952	
						A vs B	56	-31	144	
						A vs C	119	32	206	

ANOVA with the main factors regimen (R) and site (S) and the interaction term
regimen*site (R*S)

Table 2f: Results from ANOVA
- Amino Acids

Parameter	DF	R ²	p-values from ANOVA			Regimen	MEAN	95% CI		p-value t-test
			REGIMEN (R)	SITE (S)	R*S			lower bound	upper bound	
Alanine	29	0.45	0.901	<.001	0.644	A	1.68	1.67	1.69	0.693
						B	1.68	1.67	1.69	
						C	1.68	1.67	1.69	
						A vs B	0.00	-0.01	0.02	
						A vs C	0.00	-0.01	0.02	
Arginine	29	0.55	0.344	<.001	0.487	A	2.94	2.91	2.97	0.153
						B	2.97	2.94	3.00	
						C	2.95	2.92	2.98	
						A vs B	-0.03	-0.07	0.01	
						A vs C	-0.01	-0.05	0.03	
Aspartic acid	29	0.54	0.555	<.001	0.450	A	4.40	4.36	4.43	0.523
						B	4.38	4.34	4.42	
						C	4.37	4.33	4.41	
						A vs B	0.02	-0.04	0.07	
						A vs C	0.03	-0.02	0.08	
Cystine	29	0.56	0.476	<.001	0.245	A	0.58	0.57	0.59	0.951
						B	0.58	0.57	0.59	
						C	0.59	0.58	0.59	
						A vs B	0.00	-0.01	0.01	
						A vs C	-0.01	-0.02	0.01	
Glutamic acid	29	0.55	0.812	<.001	0.409	A	6.75	6.68	6.81	0.618
						B	6.77	6.71	6.84	
						C	6.74	6.68	6.81	
						A vs B	-0.02	-0.11	0.07	
						A vs C	0.00	-0.09	0.10	
Glycine	29	0.55	0.960	<.001	0.575	A	1.68	1.67	1.69	0.871
						B	1.68	1.67	1.69	
						C	1.68	1.67	1.69	
						A vs B	0.00	-0.01	0.02	
						A vs C	0.00	-0.01	0.02	
Histidine	29	0.52	0.963	<.001	0.720	A	1.05	1.04	1.06	0.991
						B	1.05	1.04	1.06	
						C	1.05	1.04	1.05	
						A vs B	-0.00	-0.01	0.01	
						A vs C	0.00	-0.01	0.01	
Isoleucine	29	0.32	0.379	0.052	0.977	A	1.81	1.79	1.83	0.373
						B	1.80	1.78	1.82	
						C	1.79	1.77	1.81	
						A vs B	0.01	-0.01	0.04	
						A vs C	0.02	-0.01	0.04	
Leucine	29	0.51	0.671	<.001	0.575	A	2.99	2.96	3.01	0.923
						B	2.99	2.97	3.01	
						C	2.98	2.95	3.00	
						A vs B	-0.00	-0.04	0.03	
						A vs C	0.01	-0.02	0.05	
Lysine	29	0.49	0.943	<.001	0.731	A	2.48	2.46	2.50	0.980
						B	2.48	2.46	2.50	
						C	2.47	2.46	2.49	
						A vs B	-0.00	-0.03	0.03	
						A vs C	0.00	-0.02	0.03	
Methionine	29	0.46	0.916	<.001	0.461	A	0.54	0.53	0.55	0.891
						B	0.54	0.53	0.55	
						C	0.54	0.54	0.55	
						A vs B	0.00	-0.01	0.01	
						A vs C	-0.00	-0.01	0.01	

ANOVA with the main factors regimen (R) and site (S) and the interaction term
regimen*site (R*S)

Table 2f: Results from ANOVA
- Amino Acids (cont.)

Parameter	DF	R ²	p-values from ANOVA			Regimen	MEAN	95% CI		p-value t-test
			REGIMEN (R)	SITE (S)	R*S			lower bound	upper bound	
Phenylalanine	29	0.47	0.264	<.001	0.603	A	1.97	1.95	1.99	0.777 0.211
						B	1.98	1.96	1.99	
						C	1.96	1.94	1.97	
						A vs B	-0.00	-0.03	0.02	
						A vs C	0.02	-0.01	0.04	
Proline	29	0.51	0.753	<.001	0.291	A	1.82	1.80	1.84	0.484 0.557
						B	1.83	1.81	1.85	
						C	1.83	1.80	1.85	
						A vs B	-0.01	-0.04	0.02	
						A vs C	-0.01	-0.04	0.02	
Serine	29	0.56	0.546	<.001	0.047	A	1.97	1.95	1.99	0.497 0.278
						B	1.98	1.96	2.00	
						C	1.99	1.97	2.01	
						A vs B	-0.01	-0.04	0.02	
						A vs C	-0.02	-0.05	0.01	
Threonine	29	0.59	0.254	<.001	0.156	A	1.55	1.53	1.56	0.908 0.138
						B	1.54	1.53	1.56	
						C	1.53	1.52	1.54	
						A vs B	0.00	-0.02	0.02	
						A vs C	0.01	-0.00	0.03	
Tryptophan	29	0.34	0.119	0.551	0.445	A	0.45	0.44	0.46	0.057 0.100
						B	0.44	0.43	0.45	
						C	0.44	0.43	0.45	
						A vs B	0.01	-0.00	0.03	
						A vs C	0.01	-0.00	0.03	
Tyrosine	29	0.50	0.582	<.001	0.225	A	1.40	1.39	1.42	0.629 0.300
						B	1.40	1.39	1.41	
						C	1.40	1.38	1.41	
						A vs B	0.00	-0.01	0.02	
						A vs C	0.01	-0.01	0.03	
Valine	29	0.39	0.609	0.007	0.861	A	1.89	1.87	1.91	0.520 0.329
						B	1.88	1.86	1.90	
						C	1.87	1.85	1.89	
						A vs B	0.01	-0.02	0.04	
						A vs C	0.01	-0.01	0.04	

ANOVA with the main factors regimen (R) and site (S) and the interaction term
regimen*site (R*S)

Table 2g: Results from ANOVA
- Fatty Acids

Parameter	DF	R ²	p-values from ANOVA			Regimen	MEAN	95% CI		p-value t-test
			REGIMEN (R)	SITE (S)	R*S			lower bound	upper bound	
C16:0 Palmitic	29	0.87	<.001	<.001	0.376	A	10.06	10.00	10.12	<.001
						B	9.34	9.28	9.40	
						C	9.38	9.32	9.45	
						A vs B	0.72	0.63	0.81	
						A vs C	0.67	0.59	0.76	
C18:0 Stearic	29	0.86	<.001	<.001	0.358	A	4.28	4.24	4.31	<.001
						B	4.52	4.48	4.56	
						C	4.51	4.47	4.54	
						A vs B	-0.24	-0.29	-0.19	
						A vs C	-0.23	-0.28	-0.18	
C18:1 Oleic	29	0.90	<.001	<.001	0.153	A	21.97	21.76	22.19	<.001
						B	24.65	24.43	24.87	
						C	24.12	23.91	24.34	
						A vs B	-2.68	-2.98	-2.37	
						A vs C	-2.15	-2.46	-1.84	
C18:2 Linoleic	29	0.86	<.001	<.001	0.230	A	54.56	54.36	54.75	<.001
						B	52.65	52.46	52.85	
						C	53.08	52.88	53.28	
						A vs B	1.90	1.62	2.18	
						A vs C	1.48	1.20	1.76	
C18:3 Linolenic	29	0.88	<.001	<.001	0.608	A	8.27	8.20	8.35	<.001
						B	7.94	7.86	8.02	
						C	8.01	7.93	8.08	
						A vs B	0.33	0.22	0.44	
						A vs C	0.27	0.16	0.38	
C20:0 Arachidic	29	0.82	<.001	<.001	0.067	A	0.312	0.309	0.316	<.001
						B	0.324	0.321	0.327	
						C	0.324	0.321	0.327	
						A vs B	-.012	-.016	-.007	
						A vs C	-.012	-.016	-.007	
C20:1 Eicosenoic	29	0.81	0.003	<.001	0.454	A	0.161	0.159	0.163	0.017
						B	0.165	0.162	0.167	
						C	0.166	0.164	0.168	
						A vs B	-.004	-.007	-.001	
						A vs C	-.005	-.009	-.002	
C22:0 Behenic	29	0.54	0.001	<.001	0.462	A	0.319	0.315	0.323	<.001
						B	0.330	0.326	0.335	
						C	0.327	0.322	0.331	
						A vs B	-.011	-.017	-.005	
						A vs C	-.007	-.013	-.001	
C24:0 Lignoceric	29	0.80	0.019	<.001	0.033	A	0.113	0.109	0.118	0.088
						B	0.119	0.114	0.123	
						C	0.122	0.118	0.127	
						A vs B	-.005	-.012	0.001	
						A vs C	-.009	-.016	-.003	

ANOVA with the main factors regimen (R) and site (S) and the interaction term
regimen*site (R*S)

Table 3: Analysis of differences - details by site

Parameter=Carbohydrates [%dm]

Site	p-value regimen effect	mean values regimen			p-value t-test	
		A	B	C	A vs B	A vs C
201	0.715	38.37	38.83	38.87	0.508	0.480
202	0.308	37.83	37.60	37.27	0.513	0.142
203	0.011	38.57	37.33	36.80	0.020	0.004
204	0.271	38.13	38.53	39.37	0.586	0.127
205	0.208	37.27	38.73	37.83	0.091	0.466
206	0.021	36.10	38.83	37.80	0.008	0.051
207	0.637	37.37	37.57	38.07	0.793	0.375
208	0.249	35.90	37.10	36.47	0.109	0.409
209	0.217	35.40	36.40	36.73	0.200	0.103
210	0.400	38.03	37.83	36.83	0.827	0.221

Parameter=Potassium [%dm]

Site	p-value regimen effect	mean values regimen			p-value t-test	
		A	B	C	A vs B	A vs C
201	0.023	1.80	1.72	1.71	0.024	0.011
202	0.255	1.90	1.84	1.85	0.149	0.170
203	0.873	1.95	1.96	1.98	0.851	0.621
204	0.005	2.01	1.84	1.79	0.007	0.002
205	0.033	2.03	1.86	1.93	0.013	0.069
206	0.145	1.96	1.85	1.87	0.074	0.116
207	0.048	1.96	1.85	1.87	0.024	0.044
208	0.061	1.91	1.86	1.76	0.402	0.025
209	0.053	1.94	1.92	1.88	0.530	0.024
210	0.081	1.84	1.76	1.85	0.068	0.724

Parameter=Vitamin B1 [mg/kg dm]

Site	p-value regimen effect	mean values regimen			p-value t-test	
		A	B	C	A vs B	A vs C
201	0.104	3.40	3.27	2.23	0.795	0.055
202	0.312	2.00	1.83	2.20	0.473	0.394
203	0.182	3.17	2.63	2.00	0.366	0.076
204	0.579	3.80	3.70	3.50	0.732	0.323
205	0.874	4.17	3.90	4.10	0.633	0.904
206	0.835	3.77	3.80	3.93	0.912	0.586
207	0.486	4.13	3.47	3.23	0.397	0.265
208	0.748	3.47	3.20	3.37	0.469	0.782
209	0.088	4.00	4.87	4.50	0.034	0.166
210	0.007	4.00	3.73	2.50	0.438	0.003

ANOVA with the main factor regimen (R)

only in case of significant regimen*site interactions in the overall analysis (Table 2)

n.e.: p-value not estimable, all value are equal

Table 3: Analysis of differences - details by site (cont.)

Parameter=Vitamin A [mg/kg dm]

Site	p-value regimen effect	mean values regimen			p-value t-test	
		A	B	C	A vs B	A vs C
201	n.e.	0.200	0.200	0.200		
202	n.e.	0.200	0.200	0.200		
203	n.e.	0.200	0.200	0.200		
204	0.226	0.200	0.221	0.238	0.324	0.098
205	n.e.	0.200	0.200	0.200		
206	n.e.	0.200	0.200	0.200		
207	0.006	0.200	0.200	0.261	1.000	0.004
208	<.001	0.214	0.303	0.408	0.012	<.001
209	<.001	0.350	0.557	0.536	<.001	<.001
210	0.002	0.211	0.332	0.395	0.005	<.001

Parameter=Vitamin K [mg/kg dm]

Site	p-value regimen effect	mean values regimen			p-value t-test	
		A	B	C	A vs B	A vs C
201	0.222	0.169	0.148	0.116	0.461	0.097
202	0.253	0.100	0.100	0.133	1.000	0.157
203	0.563	0.141	0.174	0.149	0.324	0.811
204	0.127	0.168	0.207	0.234	0.197	0.052
205	0.889	0.179	0.198	0.208	0.768	0.646
206	0.115	0.167	0.260	0.209	0.045	0.299
207	0.604	0.232	0.211	0.267	0.716	0.536
208	0.365	0.272	0.190	0.222	0.176	0.382
209	0.017	0.181	0.277	0.388	0.102	0.006
210	0.575	0.304	0.270	0.226	0.644	0.313

Parameter=Alpha Tocopherol [mg/kg dm]

Site	p-value regimen effect	mean values regimen			p-value t-test	
		A	B	C	A vs B	A vs C
201	0.571	13.90	12.90	14.20	0.446	0.815
202	0.808	13.40	14.00	14.00	0.586	0.586
203	0.119	13.37	15.37	17.73	0.298	0.047
204	0.011	17.47	18.50	21.33	0.282	0.004
205	0.185	15.50	18.07	17.10	0.079	0.237
206	0.082	16.87	14.27	15.87	0.032	0.327
207	0.127	21.60	25.30	25.67	0.092	0.070
208	0.176	20.40	20.23	23.37	0.922	0.118
209	0.122	23.97	26.33	31.00	0.445	0.051
210	<.001	17.83	24.83	26.80	<.001	<.001

ANOVA with the main factor regimen (R)

only in case of significant regimen*site interactions in the overall analysis (Table 2)

n.e.: p-value not estimable, all value are equal

Table 3: Analysis of differences - details by site (cont.)

Parameter=Gamma Tocopherol [mg/kg dm]

Site	p-value regimen effect	mean values regimen			p-value t-test	
		A	B	C	A vs B	A vs C
201	0.223	183.3	181.3	193.0	0.762	0.177
202	0.118	171.0	186.3	183.0	0.055	0.112
203	0.058	176.7	191.3	197.3	0.078	0.024
204	0.059	202.0	196.0	195.7	0.042	0.034
205	0.804	194.3	197.3	193.7	0.624	0.912
206	0.890	191.3	193.0	190.7	0.747	0.897
207	0.840	217.0	214.0	215.7	0.572	0.799
208	0.668	200.3	208.0	204.3	0.389	0.645
209	0.302	202.0	213.0	198.7	0.255	0.716
210	0.082	210.3	219.3	206.3	0.108	0.433

Parameter=Delta Tocopherol [mg/kg dm]

Site	p-value regimen effect	mean values regimen			p-value t-test	
		A	B	C	A vs B	A vs C
201	0.302	85.40	84.60	89.37	0.797	0.231
202	0.382	85.97	87.90	89.80	0.476	0.183
203	0.006	78.20	82.70	85.20	0.016	0.002
204	0.060	76.23	74.87	69.73	0.566	0.028
205	0.662	66.90	70.87	70.63	0.434	0.460
206	0.422	69.87	76.13	74.93	0.231	0.323
207	0.616	71.57	69.23	69.50	0.385	0.439
208	0.730	70.97	73.23	71.73	0.453	0.795
209	0.013	64.90	64.43	55.93	0.845	0.008
210	0.045	70.67	67.63	63.40	0.220	0.017

Parameter=Genistein [mg/kg dm]

Site	p-value regimen effect	mean values regimen			p-value t-test	
		A	B	C	A vs B	A vs C
201	0.243	12.1	11.5	10.5	0.516	0.109
202	0.509	10.7	12.4	10.6	0.347	0.936
203	0.144	13.3	12.3	10.5	0.427	0.060
204	0.181	12.6	12.1	10.7	0.624	0.085
205	0.011	16.1	13.9	11.6	0.072	0.004
206	n.e.	10.0	10.0	10.0		
207	n.e.	10.0	10.0	10.0		
208	0.422	10.0	10.0	10.7	1.000	0.267
209	n.e.	10.0	10.0	10.0		
210	n.e.	10.0	10.0	10.0		

ANOVA with the main factor regimen (R)

only in case of significant regimen*site interactions in the overall analysis (Table 2)

n.e.: p-value not estimable, all value are equal

Table 3: Analysis of differences - details by site (cont.)

Parameter=Total Isoflavones [mg/kg dm]

Site	p-value regimen effect	mean values regimen			p-value t-test	
		A	B	C	A vs B	A vs C
201	0.117	3000	2793	2787	0.077	0.070
202	0.715	2303	2473	2170	0.655	0.725
203	0.106	2270	2190	2160	0.119	0.046
204	0.201	2147	2173	2007	0.769	0.158
205	0.790	2117	2103	2047	0.904	0.534
206	0.444	1817	1900	1900	0.282	0.282
207	0.014	1937	1617	1640	0.008	0.011
208	0.444	1953	1880	1820	0.482	0.222
209	0.454	1120	1030	1024	0.304	0.275
210	0.229	1433	1373	1353	0.209	0.110

Parameter=Serine [%dm]

Site	p-value regimen effect	mean values regimen			p-value t-test	
		A	B	C	A vs B	A vs C
201	0.066	1.92	2.04	1.97	0.026	0.329
202	0.497	2.04	2.05	2.01	0.719	0.429
203	0.660	1.99	2.02	2.02	0.477	0.420
204	0.083	1.95	1.84	1.94	0.0497	0.940
205	0.396	1.91	1.98	1.92	0.230	0.903
206	0.583	2.02	2.04	2.07	0.755	0.329
207	0.103	1.88	2.00	1.97	0.047	0.105
208	0.303	2.05	1.96	1.99	0.142	0.319
209	0.908	2.00	1.97	1.98	0.673	0.814
210	0.150	1.95	1.92	2.01	0.532	0.166

Parameter=C24:0 Lignoceric [% rel]

Site	p-value regimen effect	mean values regimen			p-value t-test	
		A	B	C	A vs B	A vs C
201	0.422	0.100	0.100	0.115	1.000	0.267
202	0.422	0.100	0.100	0.109	1.000	0.267
203	0.370	0.100	0.119	0.112	0.178	0.393
204	0.919	0.104	0.107	0.107	0.721	0.747
205	0.419	0.113	0.100	0.123	0.465	0.548
206	0.080	0.121	0.100	0.100	0.051	0.051
207	0.002	0.105	0.134	0.133	0.001	0.002
208	0.019	0.100	0.126	0.106	0.008	0.434
209	0.165	0.148	0.160	0.165	0.175	0.074
210	0.341	0.143	0.141	0.155	0.867	0.242

ANOVA with the main factor regimen (R)

only in case of significant regimen*site interactions in the overall analysis (Table 2)

n.e.: p-value not estimable, all value are equal