

Title

Composition of Seed from FG72 Soybean and its Non-transgenic Counterpart. USA. 2008.

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Test Guideline

**None**

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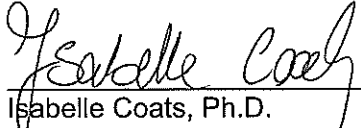


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No claim of confidentiality is made for any information contained in this study on the basis of its falling within the scope of FIFRA §10(d)(1)(A), (B) or (C).

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**GOOD LABORATORY PRACTICE COMPLIANCE STATEMENT**

The undersigned hereby declare that the work to which this report refers was performed according to the procedures herein described and this report provides an accurate record of the results obtained. The study was conducted in accordance with the Good Laboratory Practice Standards as specified in 40 CFR 160 except for the following:

1. The seeds used in the study were not grown or produced under Good Laboratory Practice Standards.
2. On LECT worksheet 388 from the analytical testing facility, a study number not applicable to this study was obscured on the raw data.

The following exceptions were noted at the analytical testing facility:

1. Reference standards (if applicable) were not listed in the protocol but are listed in the sub-report, were not characterized according to GLP standards, and no reserve samples were retained from each batch.
2. Stability of the compositional analytes in the test system was not determined.

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**QUALITY ASSURANCE STATEMENT OF INSPECTIONS**

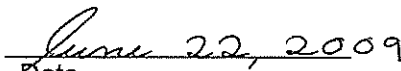
Study DQ08B009 was inspected by the Quality Assurance Unit for compliance with 40 CFR Part 160, Good Laboratory Practice Standards, according to Bayer CropScience Standard Operating Procedures. Following are the phases inspected, the dates inspections were completed and reported.

<b>Dates Inspections Concluded</b>	<b>Phases Inspected</b>	<b>Dates Reported to Study Director</b>	<b>Dates Reported to Study Director Management</b>
January 15, 2009	Protocol	January 15, 2009	January 15, 2009
June 17, 2009	Draft Study Report	June 17, 2009	June 17, 2009
June 22, 2009	Final Study Report	June 22, 2009	June 22, 2009

The Quality Assurance Unit of Covance Laboratories inspected the analytical phase of study DQ08B009 for compliance with 40 CFR Part 160, Good Laboratory Practice Standards. Following are the phases inspected, the dates inspections were completed and reported.

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May 11, 2009	Revised Draft Report Review	May 11, 2009	May 19, 2009
June 3, 2009	Report Amendment Review	June 3, 2009	June 3, 2009

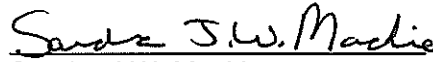
  
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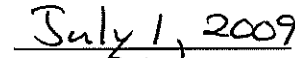
  
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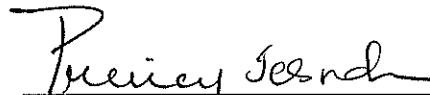
**APPROVALS PAGE**

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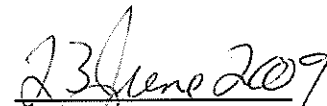
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## **SUMMARY**

Composition of Seed from FG72 Soybean and its Non-transgenic Counterpart. USA. 2008.

Composition data were obtained for 120 samples of soybean seed that were generated from 10 field trials in MS Technologies LLC BioTech Study ID Number HT08SOY002<sup>1</sup>. There were 12 plots from four groups in each field trial with a single sample being harvested from each plot:

1. Non-transgenic counterpart, non-tolerant Jack soybean (3 plots per trial).
2. FG72 transgenic event soybean that was not sprayed with herbicides (3 plots per trial).
3. FG72 transgenic event soybean that received a single foliar application of a tank mix Balance® Pro at 0.062 lb ai/A, Roundup Original Max® at 0.95 lb ai/A, and ammonium sulfate at 8 lb /100 gal at post V4-V5 growth stage (3 plots per trial).
4. Commercial non-transgenic Stine soybean varieties 2686-6, 2788, and 3000-0 (1 plot of each variety per trial).

The 10 field trials were conducted in the United States in 2008, 6 in Iowa, 1 in Missouri, 1 in Illinois, and 2 in Indiana. The plants in this study were grown under conditions typical of production practices.

The samples were harvested and stored ambient prior to shipment to Bayer CropScience, Research Triangle Park, North Carolina. Within one week of arrival at Bayer CropScience, the seed samples were sub-sampled and transferred to frozen storage. Sub-samples were shipped frozen on dry ice via Federal Express to Covance Laboratories, Inc., Madison, Wisconsin, for determination of the composition of the soybean seed. Upon arrival at Covance Laboratories, the samples were transferred to frozen storage.

Samples were analyzed for proximates, minerals, vitamins, anti-nutrients, isoflavones, total amino acids, and total fatty acids.

The data was presented on a dry weight basis by correcting the fresh weight values for the moisture content determined for each sample. Mean values and standard deviations were calculated for the dry weight data.

The data presented in this report may be used in support of one or more nutritional impact studies to help determine the substantial equivalence of the transgenic event FG72 soybean with its non-transgenic counterpart as well as some commercial varieties.

## **STUDY IDENTIFICATION**

Study Initiated:	January 19, 2009
Experimental Termination Date:	April 8, 2009
Sponsor Facility Address:	Bayer CropScience 2 T.W. Alexander Dr. Research Triangle Park, NC 27709 USA
Analytical Facility Address:	Covance Laboratories, Inc. 3301 Kinsman Blvd Madison, WI 53704 USA

### **1.0 INTRODUCTION**

Transgenic soybean plants which contain events that produce the 5-enolpyruvyl-shikimate-3-phosphate synthase protein (2mEPSPS) as well as the 4-hydroxyphenylpyruvate dioxygenase protein (HPPD) have been genetically engineered as part of the process to produce the transgenic event designated FG72 in order to provide new options for weed control in the crop. The 2mEPSPS and HPPD proteins confer tolerance to glyphosate and isoxaflutole herbicides, respectively, upon the soybean plants.

Soybean and soybean processed products are used for animal feed and human consumption. As a consequence, data are required on the composition of soybean to support the food and feed safety assessment of FG72 transgenic soybean.

This study is designed to provide the required data from the 2008 growing season in the United States. The field trials supplying samples for this study were performed under MS Technologies LLC BioTech Study ID Number HT08SOY002<sup>1</sup>. The test system was selected because the target crop, cultural practices, and application techniques are all representative of the intended use pattern of the FG72 transgenic event soybean plants and will provide a comparison between the transgenic event product with Stine commercial lines of 2696-6, 2788, and 3000-0 soybean as well as with the non-transgenic counterpart (controls). The seed for all soybean grown, analyzed, and reported herein was supplied by MS Technologies LLC, Adel, Iowa.

## 2.0 FIELD PHASE

Ten field trials were conducted under MS Technologies LLC BioTech Study ID Number HT08SOY002 in 2008. Trial details are provided in the final report for study for HT08SOY002<sup>1</sup>. The field trial locations are outlined in the table below:

<b>Trial Number</b>	<b>Location</b>	<b>State</b>	<b>County</b>	<b>Principal Field Investigator</b>
01	Marcus	IA	Cherokee	Justin Mason
02	Iowa Falls	IA	Hardin	Justin Mason
03	Scranton / Glidden	IA	Carroll	Justin Mason
04	Perry	IA	Dallas	Justin Mason
05	Adel	IA	Dallas	Justin Mason
06	Winterset	IA	Madison	Justin Mason
07	Osborn	MO	Clinton	Justin Mason
08	Fithian	IL	Vermillion	Jim Gappens
09	Sharpsville	IN	Tipton	Jim Gappens
10	Mediapolis	IN	Boone	Jim Gappens

The transgenic soybean (6 plots), its non-transgenic counterpart (3 plots), and 3 non-transgenic non-tolerant reference varieties (1 plot of each variety) were grown successfully at each of the 10 trial sites under conditions typical of production practices. The soybean plots were harvested at normal maturity by hand or mechanical means to obtain the required seed RAC.

There were a total of six regimens (labeled A-F) per trial as shown in the following table. The Jack and FG72 regimens were replicated 3 times while the commercial varieties had only a single replicate within each trial, for a total of 12 soybean plots per trial.

<b>Regimen</b>	<b>Variety</b>	<b>Herbicide Treatment Description</b>	<b>Plots per Regimen</b>	<b>Number of Trials</b>	<b>Total Samples per Regimen</b>
A	Jack	Unsprayed	3	10	30
B	FG72	Unsprayed	3	10	30
C	FG72	Sprayed <sup>a</sup>	3	10	30
D	2686-6	Unsprayed	1	10	10
E	2788	Unsprayed	1	10	10
F	3000-0	Unsprayed	1	10	10
<b>Total Number of Samples</b>					<b>120</b>

<sup>a</sup> Sprayed - one tank mix application of Balance® Pro, Roundup Original Max®, and ammonium sulfate at post V4-V5 growth stage

Regimen C received one foliar tank mix application of Balance® Pro (active ingredient: isoxaflutole) at 0.062 lb ai/A (70 g ai/ha), Roundup Original Max® (active ingredient: glyphosate)

at 0.95 lb ai/A (1060 g ai/ha), and ammonium sulfate at 8 lb /100 gal (2850 g/ha) at post V4-V5 growth stage.

One soybean seed sample was harvested from each plot for a total of 12 samples per field trial. The soybean plots were harvested at normal maturity by hand or mechanical means to obtain the required seed RAC. The samples were stored at ambient temperatures after harvest and shipped ambient to the Bayer CropScience BioAnalytics department at Research Triangle Park (RTP), NC. Within one week of arrival at Bayer CropScience, the seed samples were sub-sampled and transferred to frozen storage. Sub-samples were shipped frozen on dry ice via Federal Express to Covance Laboratories, Inc., Madison, Wisconsin, for determination of the composition of the soybean seed. Upon arrival at Covance Laboratories, the samples were transferred to frozen storage.

### **3.0 ANALYTICAL PHASE**

#### **3.1 Methods**

The nutritional composition of the soybean seed samples was determined at Covance Laboratories, Inc. The analyses performed and the methods used are listed in [Table 1](#) and detailed in [Appendix A](#) of [Appendix 1](#).

#### **3.2 Conversion of Data**

Moisture composition data were expressed as percent fresh weight (%FW). Fatty acid data were expressed as a relative percent of the total fatty acids. All other composition data were based on dry matter (%DM, ppm DM, mg/kg DM) to allow comparison of data from different sources and to compensate for variations in sample moisture (determined in the proximate analysis) using the following formula:

$$\text{Adjusted Unit} = \left( \frac{\text{Unit}}{(100 - \% \text{ Moisture})} \right) \times 100$$

### **4.0 RESULTS AND DISCUSSION**

The results of the individual analyses as received and expressed on a dry matter basis are provided in the analytical report in Appendix 1. The data for regimens A, B, and C represent an average of 3 replicate samples at ten field test sites (n = 30). The data for regimens D, E, and F represent an average of 1 sample at ten field test sites (n = 10).

#### **4.1 Proximates in Soybean Seed**

The proximates (moisture, crude protein, total fat, ash, acid detergent fiber, and neutral detergent fiber) were measured in soybean. Total carbohydrates were calculated as 100% minus the protein %, fat %, and ash %. The mean ± the standard deviation of the proximates (expressed on a dry matter basis except for % moisture) for the various soybean regimens across all trials are presented in [Table 2](#). The mean ± the standard deviation of



the proximates (expressed on a dry matter basis except for % moisture) for the various soybean regimens by individual field trial are presented in [Tables 9-18](#).

#### **4.2 Minerals in Soybean Seed**

The minerals calcium, magnesium, phosphorus, potassium, sodium, and iron were measured in soybean. The mean  $\pm$  the standard deviation of the individual minerals (expressed on a dry matter basis) of the various soybean regimens across all trials are presented in [Table 3](#). The mean  $\pm$  the standard deviation of the individual minerals (expressed on a dry matter basis) of the various soybean regimens by individual field trial are presented in [Tables 19-28](#). Since most values for sodium were <LOQ, a range was presented rather than mean  $\pm$  standard deviation.

#### **4.3 Vitamins in Soybean Seed**

Alpha ( $\alpha$ ), Beta ( $\beta$ ), Gamma ( $\gamma$ ), and Delta ( $\delta$ ) Tocopherols were measured in soybean. Total tocopherols were determined by summation. Vitamins A, B1, B2, K, and folic acid were also measured in soybean. The mean  $\pm$  the standard deviation of the vitamins and tocopherols (expressed on a dry matter basis) of the various soybean regimens across all trials are presented in [Table 4](#). The mean  $\pm$  the standard deviation of the vitamins (expressed on a dry matter basis) of the various soybean regimens by individual field trial are presented in [Tables 29-38](#).

#### **4.4 Anti-nutrients in Soybean Seed**

The anti-nutrients phytic acid, raffinose, stachyose, trypsin inhibitors, and lectin were measured in soybean. The mean  $\pm$  the standard deviation of antinutrients (expressed on a dry matter basis) of the various soybean regimens across all trials are presented in [Table 5](#). The mean  $\pm$  the standard deviation of the antinutrients (expressed on a dry matter basis) of the various soybean regimens by individual field trial are presented in [Tables 39-48](#).

#### **4.5 Isoflavones in Soybean Seed**

The isoflavones daidzein, glycitein, genistein, daidzin, glycitin, and genistin were measured in soybean. Total isoflavones were calculated by converting the isoflavone glucosides genistin, glycitin, and daidzin to aglycon equivalents and summing as follows:

$$\text{Total isoflavones (aglycon equivalents)} = ([\text{genistin}] \times 270/432) + ([\text{glycitin}] \times 284/446) + ([\text{daidzin}] \times 254/416) + [\text{genistein}] + [\text{glycitein}] + [\text{daidzein}]$$

If the value for an individual isoflavone was <LOQ, the value of 0 was used for that analyte to determine the total isoflavones.

The mean  $\pm$  the standard deviation of the isoflavones (expressed on a dry matter basis) of the various soybean regimens across all trials are presented in [Table 6](#). The mean  $\pm$  the standard deviation of isoflavones (expressed on a dry matter basis) of the various soybean regimens by individual field trial are presented in [Tables 49-58](#).

#### **4.6 Amino Acids in Soybean Seed**

Eighteen amino acids (aspartic acid, threonine, serine, glutamic acid, proline, glycine, alanine, cystine, valine, methionine, isoleucine, leucine, tyrosine, phenylalanine, lysine, histidine, arginine, and tryptophan) were measured in soybean. The mean  $\pm$  the standard deviation of the amino acids (expressed on a dry matter basis) of the various soybean regimens across all trials are presented in [Table 7](#). The mean  $\pm$  the standard deviation of the amino acids (expressed on a dry matter basis) of the various soybean regimens by individual field trial are presented in [Tables 59-68](#).

#### **4.7 Fatty Acids in Soybean Seed**

Twenty eight fatty acids (caprylic, capric, lauric, myristic, myristoleic, pentadecanoic, pentadecenoic, palmitic, palmitoleic, heptadecanoic, heptadecenoic, stearic, oleic, linoleic, gamma linolenic, linolenic, octadecatetraenoic, arachidic, eicosenoic, eicosadienoic, arachidonic, eicosatrienoic, eicosapentaenoic, behenic, erucic, docosapentaenoic, lignoceric, and docosaheptaenoic) were measured in soybean. The mean  $\pm$  the standard deviation of the fatty acids (expressed as percent relative to the total) of the various soybean regimens across all trials are presented in [Table 8](#). The mean  $\pm$  the standard deviation of the fatty acids (expressed as percent relative to the total) of the various soybean regimens by individual field trial are presented in [Tables 69-78](#). Of the 28 fatty acids assayed, only those fatty acids with concentration values above the LOQ are presented in [Table 8](#) and [Tables 69-78](#). Complete fatty acid profiles for each sample are presented in [Appendix 1](#).

**Table 1. Analyses Performed on Soybean Seed**

<b>Parameter</b>	<b>Covance Mnemonic</b>	<b>Covance Method Reference <sup>1</sup></b>
Moisture	M100	AOAC 926.08 and 925.09
Crude protein	PGEN	AOAC 955.04 and 979.09
Crude fat	FSOX	AOAC 960.39 and 948.22
Ash	ASHM	AOAC 923.03
Carbohydrate	CHO	Difference between 100 and the sum of moisture, crude protein, fat, and ash. Agric. Handbook No. 74
Acid Detergent Fiber	ADF	Agric. Handbook No. 379
Neutral Detergent Fiber	NDFE	AACC 32.20 + Agric. Handbook No. 379
Ca, P, K, Fe, Mg, Na	ICPS	AOAC 984.27 and 985.01
Tocopherols ( $\alpha$ , $\beta$ , $\gamma$ , $\delta$ )	TTLC	HPLC method
Folic Acid	FOAN	AOAC 960.46 and 992.05
Vitamin B1	BIDE	AOAC 942.23, 953.17, and 957.17
Vitamin B2	B2FV	AOAC 940.33 and 960.46
Vitamin K	VKLC	AOAC 992.27
Vitamin A	BCLC	AOAC 941.15
Phytic acid	PHYT	HPLC method
Raffinose	SUGT	Gas-Liquid Chromatography
Stachyose	SUGT	Gas-Liquid Chromatography
Trypsin Inhibitor	TRIP	AOEC Ba 12-75
Lectin	LECT	Photometric methods
Isoflavones	ASOF	AOAC 2001.10
Amino Acids	TAA5	AOAC 982.30
Fatty Acids	FALC	AOAC 996.06 and AOCS Ce 1-62

<sup>1</sup> Complete references are provided in [Appendix A](#) of [Appendix 1](#).

**Table 2. Proximate Composition of Soybean Regimens**  
**Mean ± Standard Deviation)**

<b>Analyte (% dm)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Proximates</b>						
Moisture (% FW)	9.51 ± 0.82	9.65 ± 0.84	9.45 ± 0.83	9.59 ± 0.66	9.43 ± 0.68	9.97 ± 0.56
Crude Protein	38.2 ± 1.1	38.2 ± 0.8	38.1 ± 0.9	37.8 ± 1.4	37.5 ± 1.0	38.7 ± 1.0
Total Fat	19.3 ± 0.9	18.9 ± 1.2	19.2 ± 1.1	20.0 ± 1.2	20.1 ± 0.7	17.3 ± 1.3
Ash	5.24 ± 0.31	5.07 ± 0.30	5.06 ± 0.28	5.19 ± 0.25	5.34 ± 0.23	5.26 ± 0.21
Carbohydrates <sup>a</sup>	37.3 ± 1.2	37.9 ± 1.0	37.6 ± 1.2	37.0 ± 1.9	37.0 ± 0.9	38.8 ± 1.9
ADF <sup>b</sup>	17.8 ± 1.9	18.1 ± 2.0	17.9 ± 1.8	17.8 ± 1.6	16.9 ± 2.7	17.5 ± 2.0
NDF <sup>c</sup>	19.8 ± 2.0	20.3 ± 2.1	20.0 ± 1.5	19.9 ± 2.1	19.2 ± 2.6	19.6 ± 1.9

<sup>a</sup> Total carbohydrates calculated as 100% - (protein %dm + fat %dm + ash %dm)

<sup>b</sup> ADF = acid detergent fiber

<sup>c</sup> NDF = neutral detergent fiber

**Table 3. Mineral Composition of Soybean Regimens**  
**(Mean ± Standard Deviation)**

<b>Analyte</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Minerals</b>						
Calcium (%dm)	0.282 ± 0.023	0.258 ± 0.024	0.259 ± 0.026	0.301 ± 0.024	0.260 ± 0.030	0.263 ± 0.023
Magnesium (%dm)	0.241 ± 0.010	0.226 ± 0.012	0.226 ± 0.010	0.248 ± 0.010	0.244 ± 0.013	0.215 ± 0.009
Phosphorus (%dm)	0.626 ± 0.053	0.618 ± 0.062	0.620 ± 0.065	0.582 ± 0.039	0.587 ± 0.032	0.572 ± 0.038
Potassium (%dm)	1.93 ± 0.08	1.85 ± 0.08	1.85 ± 0.09	1.90 ± 0.06	1.99 ± 0.06	1.99 ± 0.07
Sodium (%dm)	<LOQ to 0.020	<LOQ to 0.040	<LOQ to 0.040	<LOQ to 0.026	<LOQ to 0.026	<LOQ to 0.021
Iron (ppm)	93.3 ± 41.8	82.6 ± 13.3	84.1 ± 18.9	70.8 ± 5.1	72.9 ± 8.5	68.4 ± 4.4

**Table 4. Vitamin Composition of Soybean Regimens**  
**(Mean ± Standard Deviation)**

<b>Analyte (ppm)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Tocopherols</b>						
Alpha (α)	17.4 ± 3.9	19.0 ± 5.1	20.7 ± 5.8	16.4 ± 3.6	18.7 ± 3.3	17.0 ± 2.3
Beta (β)	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
Gamma (γ)	195 ± 16	200 ± 14	198 ± 11	174 ± 11	188 ± 20	173 ± 13
Delta (δ)	74.1 ± 7.4	75.2 ± 8.3	74.0 ± 11.1	76.2 ± 9.5	81.8 ± 8.4	50.3 ± 5.6
Total	286 ± 16	294 ± 14	293 ± 13	267 ± 15	289 ± 25	240 ± 12
<b>Vitamins</b>						
Folic Acid	2.98 ± 0.35	3.07 ± 0.30	3.12 ± 0.34	3.22 ± 0.45	3.37 ± 0.26	3.65 ± 0.41
Vitamin B1	3.6 ± 0.8	3.4 ± 0.9	3.2 ± 0.9	3.4 ± 0.7	2.7 ± 0.5	2.55 ± 0.48
Vitamin B2	4.42 ± 0.88	4.52 ± 0.89	4.81 ± 0.84	4.13 ± 0.74	4.55 ± 0.84	4.45 ± 0.78
Vitamin K	<LOQ to 0.326	<LOQ to 0.388	<LOQ to 0.435	<LOQ to 0.247	<LOQ to 0.229	<LOQ to 0.263
Vitamin A	<LOQ to 0.400	<LOQ to 0.573	<LOQ to 0.566	<LOQ	<LOQ	<LOQ

**Table 5. Anti-nutrient Composition of Soybean Regimens**  
**(Mean  $\pm$  Standard Deviation)**

<b>Analyte</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Anti-nutrients</b>						
Phytic Acid (%dm)	1.40 $\pm$ 0.16	1.37 $\pm$ 0.23	1.35 $\pm$ 0.23	1.26 $\pm$ 0.19	1.26 $\pm$ 0.12	1.21 $\pm$ 0.14
Raffinose (%dm)	0.361 $\pm$ 0.036	0.378 $\pm$ 0.053	0.379 $\pm$ 0.058	0.410 $\pm$ 0.054	0.406 $\pm$ 0.056	0.349 $\pm$ 0.029
Stachyose (%dm)	2.49 $\pm$ 0.24	2.42 $\pm$ 0.18	2.50 $\pm$ 0.19	2.66 $\pm$ 0.20	2.57 $\pm$ 0.19	2.46 $\pm$ 0.20
Trypsin Inhibitor (TIU/mg) <sup>a</sup>	33.0 $\pm$ 6.6	30.1 $\pm$ 6.1	33.9 $\pm$ 5.7	39.0 $\pm$ 9.2	34.9 $\pm$ 7.3	30.4 $\pm$ 5.4
Lectin (HU/mg) <sup>b</sup>	1.74 $\pm$ 0.60	1.40 $\pm$ 0.50	1.54 $\pm$ 0.42	2.57 $\pm$ 2.15	1.18 $\pm$ 0.20	0.975 $\pm$ 0.425

<sup>a</sup> TIU = Trypsin Inhibitor Unit

<sup>b</sup> HU = Hemagglutinating Unit

**Table 6. Isoflavone Composition of Soybean Regimens  
(Mean ± Standard Deviation)**

<b>Analyte (ppm)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Isoflavones</b>						
Daidzein	<LOQ to 17.5	<LOQ to 15.1	<LOQ to 14.6	<LOQ to 14.0	<LOQ to 12.5	<LOQ to 14.0
Glycitein	< LOQ	< LOQ	< LOQ	<LOQ	<LOQ	<LOQ
Genistein	<LOQ to 17.2	<LOQ to 15.7	<LOQ to 12.2	<LOQ to 20.6	<LOQ	LOQ
Daidzin	1035 ± 350	1034 ± 356	994 ± 357	1085 ± 300	1213 ± 360	1831 ± 447
Glycitin	365 ± 39	414 ± 43	400 ± 56	173 ± 20	276 ± 23	218 ± 16
Genistin	1817 ± 482	1682 ± 465	1640 ± 446	2294 ± 602	2131 ± 536	2098 ± 436
Total <sup>a</sup>	2010 ± 522	1953 ± 507	1891 ± 488	2215 ± 569	2252 ± 548	2570 ± 541

<sup>a</sup> Total isoflavones calculated as aglycon equivalents.



**Table 7. Amino Acid Composition of Soybean Regimens**  
**(Mean  $\pm$  Standard Deviation)**

<b>Analyte (% dm)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Amino Acids</b>						
Aspartic Acid	4.40 $\pm$ 0.12	4.38 $\pm$ 0.12	4.37 $\pm$ 0.13	4.39 $\pm$ 0.15	4.27 $\pm$ 0.15	4.37 $\pm$ 0.13
Threonine	1.55 $\pm$ 0.04	1.54 $\pm$ 0.04	1.53 $\pm$ 0.04	1.55 $\pm$ 0.03	1.50 $\pm$ 0.05	1.53 $\pm$ 0.03
Serine	1.97 $\pm$ 0.07	1.98 $\pm$ 0.08	1.99 $\pm$ 0.06	1.97 $\pm$ 0.06	1.91 $\pm$ 0.08	1.96 $\pm$ 0.04
Glutamic Acid	6.75 $\pm$ 0.21	6.77 $\pm$ 0.23	6.74 $\pm$ 0.22	6.79 $\pm$ 0.27	6.76 $\pm$ 0.26	6.91 $\pm$ 0.23
Proline	1.82 $\pm$ 0.07	1.83 $\pm$ 0.07	1.83 $\pm$ 0.07	1.84 $\pm$ 0.07	1.78 $\pm$ 0.05	1.86 $\pm$ 0.06
Glycine	1.68 $\pm$ 0.04	1.68 $\pm$ 0.04	1.68 $\pm$ 0.04	1.66 $\pm$ 0.06	1.61 $\pm$ 0.05	1.67 $\pm$ 0.05
Alanine	1.68 $\pm$ 0.04	1.68 $\pm$ 0.04	1.68 $\pm$ 0.04	1.69 $\pm$ 0.05	1.64 $\pm$ 0.05	1.67 $\pm$ 0.05
Cystine	0.58 $\pm$ 0.03	0.58 $\pm$ 0.02	0.59 $\pm$ 0.03	0.59 $\pm$ 0.02	0.56 $\pm$ 0.03	0.57 $\pm$ 0.01
Valine	1.89 $\pm$ 0.06	1.88 $\pm$ 0.05	1.87 $\pm$ 0.06	1.87 $\pm$ 0.09	1.83 $\pm$ 0.09	1.84 $\pm$ 0.09
Methionine	0.54 $\pm$ 0.02	0.54 $\pm$ 0.02	0.54 $\pm$ 0.02	0.56 $\pm$ 0.01	0.54 $\pm$ 0.02	0.55 $\pm$ 0.01
Isoleucine	1.81 $\pm$ 0.05	1.80 $\pm$ 0.05	1.79 $\pm$ 0.05	1.81 $\pm$ 0.08	1.75 $\pm$ 0.08	1.76 $\pm$ 0.08
Leucine	2.99 $\pm$ 0.08	2.99 $\pm$ 0.08	2.98 $\pm$ 0.08	2.97 $\pm$ 0.09	2.88 $\pm$ 0.10	2.94 $\pm$ 0.08
Tyrosine	1.40 $\pm$ 0.04	1.40 $\pm$ 0.04	1.40 $\pm$ 0.04	1.40 $\pm$ 0.04	1.37 $\pm$ 0.04	1.39 $\pm$ 0.03
Phenylalanine	1.97 $\pm$ 0.05	1.98 $\pm$ 0.06	1.96 $\pm$ 0.06	1.94 $\pm$ 0.06	1.92 $\pm$ 0.08	1.94 $\pm$ 0.05
Lysine	2.48 $\pm$ 0.05	2.48 $\pm$ 0.06	2.47 $\pm$ 0.06	2.50 $\pm$ 0.07	2.46 $\pm$ 0.09	2.49 $\pm$ 0.06
Histidine	1.05 $\pm$ 0.03	1.05 $\pm$ 0.03	1.05 $\pm$ 0.03	1.01 $\pm$ 0.03	1.00 $\pm$ 0.04	1.02 $\pm$ 0.03
Arginine	2.94 $\pm$ 0.10	2.97 $\pm$ 0.10	2.95 $\pm$ 0.10	2.93 $\pm$ 0.11	2.92 $\pm$ 0.14	2.97 $\pm$ 0.08
Tryptophan	0.45 $\pm$ 0.03	0.44 $\pm$ 0.03	0.44 $\pm$ 0.03	0.48 $\pm$ 0.03	0.44 $\pm$ 0.03	0.46 $\pm$ 0.03

**Table 8. Fatty Acid Composition of Soybean Regimens**  
**(Mean  $\pm$  Standard Deviation)**

<b>Analyte (% Relative)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Fatty Acids <sup>1</sup></b>						
16:0 Palmitic	10.06 $\pm$ 0.22	9.34 $\pm$ 0.17	9.38 $\pm$ 0.23	10.39 $\pm$ 0.17	9.90 $\pm$ 0.10	11.09 $\pm$ 0.14
17:0 Heptadecanoic	<LOQ to 0.120	<LOQ to 0.109	<LOQ to 0.111	<LOQ to 0.116	<LOQ to 0.118	<LOQ to 0.114
18:0 Stearic	4.28 $\pm$ 0.16	4.52 $\pm$ 0.19	4.51 $\pm$ 0.23	3.79 $\pm$ 0.22	4.43 $\pm$ 0.21	4.17 $\pm$ 0.20
18:1 Oleic	22.0 $\pm$ 1.0	24.7 $\pm$ 1.0	24.1 $\pm$ 0.9	22.2 $\pm$ 0.9	22.5 $\pm$ 0.9	22.5 $\pm$ 0.8
18:2 Linoleic	54.6 $\pm$ 0.9	52.7 $\pm$ 0.9	53.1 $\pm$ 0.8	54.5 $\pm$ 0.7	53.3 $\pm$ 0.7	52.3 $\pm$ 0.5
18:3 Linolenic	8.27 $\pm$ 0.50	7.94 $\pm$ 0.45	8.01 $\pm$ 0.48	8.34 $\pm$ 0.56	8.97 $\pm$ 0.64	9.09 $\pm$ 0.71
20:0 Arachidic	0.312 $\pm$ 0.015	0.324 $\pm$ 0.017	0.324 $\pm$ 0.019	0.268 $\pm$ 0.016	0.318 $\pm$ 0.019	0.315 $\pm$ 0.020
20:1 Eicosenoic <sup>2</sup>	0.161 $\pm$ 0.011	0.165 $\pm$ 0.010	0.166 $\pm$ 0.012	0.159 $\pm$ 0.011	0.158 $\pm$ 0.009	0.167 $\pm$ 0.008
22:0 Behenic	0.319 $\pm$ 0.009	0.330 $\pm$ 0.012	0.327 $\pm$ 0.017	0.270 $\pm$ 0.010	0.316 $\pm$ 0.012	0.331 $\pm$ 0.012
24:0 Lignoceric	<LOQ to 0.162	<LOQ to 0.167	<LOQ to 0.171	<LOQ to 0.145	<LOQ to 0.137	<LOQ

<sup>1</sup> Samples were analyzed for 28 fatty acids. Only those fatty acids with values above the LOQ are reported here. Complete fatty acid profiles for each sample are presented in Appendix 1.

<sup>2</sup> One of 10 samples from Regimen F had a value <LOQ (<0.0200) for Eicosenoic fatty acid. A value of 0.0199 (0.0001 less than the LOQ) was substituted and the % relative fatty acids then calculated.

**Table 9. % Proximate Composition (Dry Weight) in Soybean Regimens from Trial 01 (Mean ± Standard Deviation)**

<b>Analyte (% dm)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Proximates</b>	n = 3	n = 3	n = 3	n = 1	n = 1	n = 1
Moisture (% fw)	10.1 ± 0.2	10.1 ± 0.3	10.2 ± 0.2	9.67	9.84	10.3
Crude Protein	38.2 ± 0.3	38.5 ± 0.3	38.3 ± 0.1	39.6	38.9	39.0
Total Fat	18.9 ± 0.2	18.2 ± 0.7	18.3 ± 1.1	20.3	19.5	17.7
Ash	4.69 ± 0.35	4.41 ± 0.23	4.56 ± 0.05	4.94	5.27	4.91
Carbohydrates <sup>a</sup>	38.4 ± 0.6	38.8 ± 0.9	38.9 ± 1.0	35.2	36.3	38.4
Acid Detergent Fiber	17.1 ± 1.3	19.1 ± 3.8	16.3 ± 1.0	16.8	14.6	16.7
Neutral Detergent Fiber	19.5 ± 1.7	21.6 ± 3.4	19.5 ± 1.5	17.0	18.0	20.0

**Table 10. Proximate Composition in Soybean Regimens from Trial 02 (Mean ± Standard Deviation)**

<b>Analyte (% dm)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Proximates</b>	n = 3	n = 3	n = 3	n = 1	n = 1	n = 1
Moisture (% fw)	9.19 ± 2.27	11.2 ± 0.3	9.30 ± 2.43	10.4	10.6	10.6
Crude Protein	38.5 ± 0.3	39.4 ± 0.5	38.3 ± 1.5	35.8	37.8	38.3
Total Fat	18.5 ± 0.6	18.1 ± 0.4	19.6 ± 1.4	18.4	20.5	15.1
Ash	5.10 ± 0.25	4.99 ± 0.11	4.89 ± 0.14	4.89	5.10	5.09
Carbohydrates <sup>a</sup>	37.8 ± 0.6	37.6 ± 0.0	37.3 ± 0.5	40.8	36.6	41.6
Acid Detergent Fiber	16.0 ± 3.0	16.6 ± 1.1	17.0 ± 1.3	18.1	13.6	18.5
Neutral Detergent Fiber	18.5 ± 2.8	17.7 ± 0.2	19.4 ± 1.0	20.9	16.1	20.9

<sup>a</sup> Total carbohydrates calculated as 100% - (protein %dm + fat %dm + ash %dm)

**Table 11. Proximate Composition in Soybean Regimens from Trial 03 (Mean  $\pm$  Standard Deviation)**

Analyte (% dm)	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Proximates</b>	n = 3	n = 3	n = 3	n = 1	n = 1	n = 1
Moisture (% fw)	9.88 $\pm$ 0.13	9.91 $\pm$ 0.09	9.97 $\pm$ 0.28	9.78	9.97	9.42
Crude Protein	37.6 $\pm$ 0.2	38.4 $\pm$ 0.3	38.4 $\pm$ 0.4	37.0	36.3	38.4
Total Fat	18.5 $\pm$ 0.4	18.9 $\pm$ 0.9	19.3 $\pm$ 0.3	20.6	21.0	16.4
Ash	5.30 $\pm$ 0.14	5.40 $\pm$ 0.20	5.46 $\pm$ 0.13	5.35	5.63	5.33
Carbohydrates <sup>a</sup>	38.6 $\pm$ 0.3	37.3 $\pm$ 0.8	36.8 $\pm$ 0.1	37.0	37.1	39.9
Acid Detergent Fiber	18.7 $\pm$ 1.2	16.4 $\pm$ 2.4	16.5 $\pm$ 0.2	16.8	16.2	15.9
Neutral Detergent Fiber	20.2 $\pm$ 1.6	18.8 $\pm$ 2.3	18.5 $\pm$ 1.0	19.1	18.5	17.7

**Table 12. Proximate Composition in Soybean Regimens from Trial 04 (Mean  $\pm$  Standard Deviation)**

Analyte (% dm)	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Proximates</b>	n = 3	n = 3	n = 3	n = 1	n = 1	n = 1
Moisture (% fw)	9.64 $\pm$ 0.24	9.11 $\pm$ 0.24	9.45 $\pm$ 0.27	9.86	8.86	9.84
Crude Protein	37.0 $\pm$ 0.2	37.1 $\pm$ 0.1	37.1 $\pm$ 0.6	37.1	36.8	39.2
Total Fat	19.5 $\pm$ 0.8	19.1 $\pm$ 0.7	18.4 $\pm$ 0.9	20.4	20.3	16.5
Ash	5.33 $\pm$ 0.09	5.25 $\pm$ 0.12	5.17 $\pm$ 0.09	5.26	5.51	5.14
Carbohydrates <sup>a</sup>	38.1 $\pm$ 0.9	38.5 $\pm$ 0.8	39.4 $\pm$ 0.9	37.3	37.4	39.2
Acid Detergent Fiber	18.6 $\pm$ 2.0	17.5 $\pm$ 1.0	19.0 $\pm$ 0.4	17.3	16.5	21.1
Neutral Detergent Fiber	20.1 $\pm$ 2.3	20.6 $\pm$ 0.2	20.9 $\pm$ 0.8	19.9	18.5	21.4

<sup>a</sup> Total carbohydrates calculated as 100% - (protein %dm + fat %dm + ash %dm)

**Table 13. Proximate Composition in Soybean Regimens from Trial 05 (Mean  $\pm$  Standard Deviation)**

Analyte (% dm)	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Proximates</b>	n = 3	n = 3	n = 3	n = 1	n = 1	n = 1
Moisture (% fw)	9.17 $\pm$ 0.32	9.56 $\pm$ 0.27	9.14 $\pm$ 0.25	9.07	8.87	9.55
Crude Protein	37.6 $\pm$ 0.3	38.2 $\pm$ 1.1	37.8 $\pm$ 0.1	37.8	36.9	37.9
Total Fat	19.7 $\pm$ 0.2	18.0 $\pm$ 1.2	19.1 $\pm$ 0.9	17.6	20.1	16.0
Ash	5.36 $\pm$ 0.22	5.13 $\pm$ 0.21	5.31 $\pm$ 0.07	4.96	5.33	5.06
Carbohydrates <sup>a</sup>	37.3 $\pm$ 0.5	38.7 $\pm$ 1.2	37.8 $\pm$ 0.9	39.6	37.7	41.0
Acid Detergent Fiber	17.4 $\pm$ 0.4	17.8 $\pm$ 0.9	17.7 $\pm$ 2.0	21.6	14.9	17.2
Neutral Detergent Fiber	19.3 $\pm$ 1.9	20.0 $\pm$ 0.9	20.0 $\pm$ 1.9	22.8	17.9	21.0

**Table 14. Proximate Composition in Soybean Regimens from Trial 06 (Mean  $\pm$  Standard Deviation)**

Analyte (% dm)	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Proximates</b>	n = 3	n = 3	n = 3	n = 1	n = 1	n = 1
Moisture (% fw)	10.1 $\pm$ 0.1	9.99 $\pm$ 0.37	9.53 $\pm$ 0.26	10.0	9.82	10.6
Crude Protein	39.9 $\pm$ 0.4	39.1 $\pm$ 0.5	39.1 $\pm$ 0.5	40.1	39.1	39.6
Total Fat	18.6 $\pm$ 0.7	16.9 $\pm$ 0.3	18.1 $\pm$ 0.9	18.8	18.9	17.8
Ash	5.43 $\pm$ 0.23	5.14 $\pm$ 0.19	4.99 $\pm$ 0.08	5.24	4.98	5.41
Carbohydrates <sup>a</sup>	36.1 $\pm$ 0.2	38.8 $\pm$ 0.7	37.8 $\pm$ 1.3	35.9	37.0	37.2
Acid Detergent Fiber	16.9 $\pm$ 1.1	20.0 $\pm$ 1.0	18.7 $\pm$ 2.5	16.1	16.9	15.0
Neutral Detergent Fiber	18.5 $\pm$ 1.3	22.4 $\pm$ 1.5	19.9 $\pm$ 1.5	17.7	19.7	16.8

<sup>a</sup> Total carbohydrates calculated as 100% - (protein %dm + fat %dm + ash %dm)

**Table 15. Proximate Composition in Soybean Regimens from Trial 07 (Mean  $\pm$  Standard Deviation)**

Analyte (% dm)	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Proximates</b>	n = 3	n = 3	n = 3	n = 1	n = 1	n = 1
Moisture (% fw)	9.40 $\pm$ 0.14	9.61 $\pm$ 0.19	9.26 $\pm$ 0.18	9.44	9.19	9.69
Crude Protein	36.8 $\pm$ 0.5	37.4 $\pm$ 0.6	36.9 $\pm$ 0.4	37.4	36.6	36.5
Total Fat	20.7 $\pm$ 0.9	20.0 $\pm$ 1.1	20.0 $\pm$ 1.4	20.5	19.2	18.0
Ash	5.17 $\pm$ 0.03	5.08 $\pm$ 0.16	4.96 $\pm$ 0.10	5.11	5.40	5.60
Carbohydrates <sup>a</sup>	37.4 $\pm$ 0.8	37.6 $\pm$ 0.9	38.1 $\pm$ 1.0	36.9	38.9	39.9
Acid Detergent Fiber	18.2 $\pm$ 1.2	18.7 $\pm$ 3.0	18.2 $\pm$ 2.4	19.3	23.5	20.7
Neutral Detergent Fiber	20.6 $\pm$ 2.2	20.9 $\pm$ 3.2	20.4 $\pm$ 2.0	23.3	24.8	22.3

**Table 16. Proximate Composition in Soybean Regimens from Trial 08 (Mean  $\pm$  Standard Deviation)**

Analyte (% dm)	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Proximates</b>	n = 3	n = 3	n = 3	n = 1	n = 1	n = 1
Moisture (% fw)	10.1 $\pm$ 0.2	10.1 $\pm$ 0.2	9.78 $\pm$ 0.39	9.89	9.86	10.5
Crude Protein	39.0 $\pm$ 1.4	37.9 $\pm$ 0.5	38.1 $\pm$ 1.3	36.6	37.3	38.9
Total Fat	19.9 $\pm$ 0.6	20.0 $\pm$ 0.9	20.6 $\pm$ 1.0	21.0	21.2	18.3
Ash	5.19 $\pm$ 0.12	5.04 $\pm$ 0.11	4.88 $\pm$ 0.23	5.35	5.23	5.42
Carbohydrates <sup>a</sup>	35.9 $\pm$ 0.8	37.1 $\pm$ 1.1	36.5 $\pm$ 0.2	37.1	36.3	37.4
Acid Detergent Fiber	17.1 $\pm$ 1.1	18.5 $\pm$ 1.3	17.6 $\pm$ 0.8	17.6	17.3	17.0
Neutral Detergent Fiber	18.9 $\pm$ 0.4	19.9 $\pm$ 1.4	19.1 $\pm$ 0.3	19.5	18.3	17.9

<sup>a</sup> Total carbohydrates calculated as 100% - (protein %dm + fat %dm + ash %dm)

**Table 17. Proximate Composition in Soybean Regimens from Trial 09 (Mean ± Standard Deviation)**

Analyte (% dm)	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Proximates</b>	n = 3	n = 3	n = 3	n = 1	n = 1	n = 1
Moisture (% fw)	8.38 ± 0.24	8.11 ± 0.19	8.39 ± 0.25	8.00	8.42	8.96
Crude Protein	39.0 ± 0.6	38.4 ± 0.2	38.7 ± 0.9	39.0	38.5	40.1
Total Fat	20.0 ± 0.9	19.9 ± 0.3	19.3 ± 0.6	20.5	20.0	18.3
Ash	5.66 ± 0.43	5.30 ± 0.23	5.25 ± 0.39	5.70	5.73	5.34
Carbohydrates <sup>a</sup>	35.4 ± 1.0	36.4 ± 0.7	36.7 ± 0.8	34.8	35.7	36.2
Acid Detergent Fiber	17.4 ± 2.1	18.0 ± 0.8	20.0 ± 1.2	17.4	16.9	15.9
Neutral Detergent Fiber	20.2 ± 1.9	21.0 ± 1.4	21.6 ± 0.8	20.9	17.8	17.9

**Table 18. Proximate Composition in Soybean Regimens from Trial 10 (Mean ± Standard Deviation)**

Analyte (% dm)	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Proximates</b>	n = 3	n = 3	n = 3	n = 1	n = 1	n = 1
Moisture (% fw)	9.20 ± 0.09	8.79 ± 0.14	9.52 ± 0.30	9.78	8.88	10.2
Crude Protein	37.9 ± 0.6	37.6 ± 0.4	38.2 ± 0.8	37.9	37.1	38.8
Total Fat	18.9 ± 0.6	19.6 ± 0.6	19.8 ± 0.7	21.4	20.4	19.2
Ash	5.18 ± 0.02	4.99 ± 0.10	5.13 ± 0.06	5.05	5.25	5.31
Carbohydrates <sup>a</sup>	38.0 ± 1.1	37.8 ± 0.3	36.8 ± 1.5	35.7	37.2	36.7
Acid Detergent Fiber	20.5 ± 2.3	18.3 ± 2.2	18.1 ± 2.5	17.3	18.3	17.3
Neutral Detergent Fiber	22.2 ± 2.6	20.7 ± 1.3	20.8 ± 2.0	18.1	22.5	19.7

<sup>a</sup> Total carbohydrates calculated as 100% - (protein %dm + fat %dm + ash %dm)

**Table 19. Mineral Composition in Soybean Regimens from Trial 01 (Mean ± Standard Deviation)**

<b>Analyte</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Minerals</b>	n = 3	n = 3	n = 3	n = 1	n = 1	n = 1
Calcium (%dm)	0.259 ± 0.007	0.236 ± 0.006	0.233 ± 0.002	0.267	0.212	0.236
Magnesium (%dm)	0.229 ± 0.005	0.206 ± 0.002	0.207 ± 0.007	0.232	0.224	0.197
Phosphorus (%dm)	0.519 ± 0.037	0.478 ± 0.013	0.485 ± 0.041	0.524	0.576	0.499
Potassium (%dm)	1.80 ± 0.04	1.72 ± 0.04	1.71 ± 0.01	1.84	2.03	1.88
Sodium (%dm)	<LOQ to 0.020	<LOQ to 0.015	0.022 ± 0.015	0.011	<LOQ	<LOQ
Iron (ppm)	77.7 ± 2.7	75.9 ± 0.5	76.1 ± 0.7	66.1	70.9	63.0

**Table 20. Mineral Composition in Soybean Regimens from Trial 02 (Mean ± Standard Deviation)**

<b>Analyte</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Minerals</b>	n = 3	n = 3	n = 3	n = 1	n = 1	n = 1
Calcium (%dm)	0.246 ± 0.008	0.227 ± 0.004	0.214 ± 0.006	0.279	0.236	0.233
Magnesium (%dm)	0.243 ± 0.007	0.226 ± 0.001	0.218 ± 0.001	0.249	0.244	0.211
Phosphorus (%dm)	0.624 ± 0.037	0.622 ± 0.015	0.621 ± 0.034	0.526	0.549	0.529
Potassium (%dm)	1.90 ± 0.05	1.84 ± 0.03	1.85 ± 0.04	1.85	1.96	1.91
Sodium (%dm)	<LOQ	<LOQ to 0.012	<LOQ to 0.031	0.015	0.023	0.012
Iron (ppm)	77.8 ± 1.0	75.7 ± 2.4	74.5 ± 3.2	66.0	58.8	63.3



**Table 21. Mineral Composition in Soybean Regimens from Trial 03 (Mean ± Standard Deviation)**

<b>Analyte</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Minerals</b>	n = 3	n = 3	n = 3	n = 1	n = 1	n = 1
Calcium (%dm)	0.275 ± 0.009	0.249 ± 0.011	0.253 ± 0.004	0.294	0.250	0.253
Magnesium (%dm)	0.248 ± 0.006	0.229 ± 0.011	0.233 ± 0.003	0.257	0.247	0.220
Phosphorus (%dm)	0.698 ± 0.008	0.722 ± 0.044	0.736 ± 0.032	0.650	0.651	0.617
Potassium (%dm)	1.95 ± 0.05	1.96 ± 0.07	1.98 ± 0.07	2.00	2.11	2.01
Sodium (%dm)	<LOQ to 0.015	<LOQ to 0.016	<LOQ	<LOQ	<LOQ	<LOQ
Iron (ppm)	92.9 ± 1.7	88.5 ± 3.9	87.0 ± 0.8	81.2	88.3	77.4

**Table 22. Mineral Composition in Soybean Regimens from Trial 04 (Mean ± Standard Deviation)**

<b>Analyte</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Minerals</b>	n = 3	n = 3	n = 3	n = 1	n = 1	n = 1
Calcium (%dm)	0.288 ± 0.005	0.262 ± 0.003	0.275 ± 0.014	0.318	0.255	0.260
Magnesium (%dm)	0.243 ± 0.002	0.220 ± 0.006	0.233 ± 0.012	0.257	0.248	0.213
Phosphorus (%dm)	0.681 ± 0.021	0.633 ± 0.033	0.623 ± 0.009	0.596	0.627	0.579
Potassium (%dm)	2.01 ± 0.03	1.84 ± 0.07	1.79 ± 0.06	1.92	2.02	1.92
Sodium (%dm)	<LOQ to 0.015	<LOQ to 0.020	0.024 ± 0.010	LOQ	<LOQ	0.021
Iron (ppm)	94.5 ± 3.9	89.1 ± 3.4	86.6 ± 5.5	72.0	79.3	71.9

**Table 23. Mineral Composition in Soybean Regimens from Trial 05 (Mean ± Standard Deviation)**

<b>Analyte</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Minerals</b>	n = 3	n = 3	n = 3	n = 1	n = 1	n = 1
Calcium (%dm)	0.290 ± 0.010	0.274 ± 0.030	0.261 ± 0.006	0.280	0.256	0.261
Magnesium (%dm)	0.253 ± 0.010	0.243 ± 0.021	0.233 ± 0.002	0.246	0.248	0.220
Phosphorus (%dm)	0.667 ± 0.010	0.653 ± 0.012	0.662 ± 0.019	0.566	0.589	0.549
Potassium (%dm)	2.03 ± 0.04	1.86 ± 0.02	1.93 ± 0.09	1.84	1.98	2.02
Sodium (%dm)	<LOQ to 0.020	<LOQ to 0.040	<LOQ to 0.029	0.026	<LOQ	<LOQ
Iron (ppm)	83.7 ± 5.0	82.1 ± 3.5	79.9 ± 1.7	74.0	75.4	70.8

**Table 24. Mineral Composition in Soybean Regimens from Trial 06 (Mean ± Standard Deviation)**

<b>Analyte</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Minerals</b>	n = 3	n = 3	n = 3	n = 1	n = 1	n = 1
Calcium (%dm)	0.285 ± 0.016	0.243 ± 0.005	0.250 ± 0.002	0.293	0.245	0.256
Magnesium (%dm)	0.239 ± 0.005	0.227 ± 0.008	0.226 ± 0.004	0.239	0.231	0.217
Phosphorus (%dm)	0.643 ± 0.007	0.628 ± 0.026	0.626 ± 0.022	0.616	0.602	0.610
Potassium (%dm)	1.96 ± 0.03	1.85 ± 0.07	1.87 ± 0.08	1.97	2.00	2.04
Sodium (%dm)	<LOQ	0.017 ± 0.003	<LOQ to 0.013	<LOQ	<LOQ	<LOQ
Iron (ppm)	84.2 ± 0.6	80.9 ± 3.8	82.8 ± 1.4	72.7	76.0	69.1

**Table 25. Mineral Composition in Soybean Regimens from Trial 07 (Mean ± Standard Deviation)**

<b>Analyte</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Minerals</b>	n = 3	n = 3	n = 3	n = 1	n = 1	n = 1
Calcium (%dm)	0.302 ± 0.007	0.283 ± 0.003	0.268 ± 0.008	0.325	0.295	0.265
Magnesium (%dm)	0.241 ± 0.003	0.236 ± 0.006	0.229 ± 0.002	0.261	0.263	0.228
Phosphorus (%dm)	0.607 ± 0.019	0.589 ± 0.026	0.599 ± 0.010	0.587	0.562	0.588
Potassium (%dm)	1.96 ± 0.04	1.85 ± 0.04	1.87 ± 0.06	1.89	1.91	2.07
Sodium (%dm)	<LOQ	<LOQ to 0.015	<LOQ to 0.022	<LOQ	0.024	0.013
Iron (ppm)	80.7 ± 1.1	78.4 ± 1.3	78.6 ± 0.4	71.0	73.9	67.8

**Table 26. Mineral Composition in Soybean Regimens from Trial 08 (Mean ± Standard Deviation)**

<b>Analyte</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Minerals</b>	n = 3	n = 3	n = 3	n = 1	n = 1	n = 1
Calcium (%dm)	0.272 ± 0.006	0.248 ± 0.003	0.250 ± 0.011	0.302	0.262	0.278
Magnesium (%dm)	0.246 ± 0.001	0.229 ± 0.003	0.225 ± 0.010	0.254	0.260	0.226
Phosphorus (%dm)	0.606 ± 0.017	0.618 ± 0.035	0.590 ± 0.046	0.603	0.570	0.610
Potassium (%dm)	1.91 ± 0.03	1.86 ± 0.05	1.76 ± 0.09	1.91	1.94	2.01
Sodium (%dm)	<LOQ to 0.017	<LOQ to 0.023	0.016 ± 0.003	<LOQ	0.016	<LOQ
Iron (ppm)	76.3 ± 1.0	75.4 ± 1.9	76.9 ± 3.1	64.3	66.2	66.4

**Table 27. Mineral Composition in Soybean Regimens from Trial 09 (Mean ± Standard Deviation)**

<b>Analyte</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Minerals</b>	n = 3	n = 3	n = 3	n = 1	n = 1	n = 1
Calcium (%dm)	0.277 ± 0.009	0.261 ± 0.006	0.277 ± 0.009	0.309	0.276	0.274
Magnesium (%dm)	0.223 ± 0.003	0.219 ± 0.004	0.221 ± 0.003	0.237	0.242	0.211
Phosphorus (%dm)	0.601 ± 0.020	0.630 ± 0.012	0.612 ± 0.012	0.598	0.586	0.569
Potassium (%dm)	1.94 ± 0.02	1.92 ± 0.01	1.88 ± 0.04	1.95	1.99	2.09
Sodium (%dm)	<LOQ to 0.014	<LOQ to 0.019	<LOQ	<LOQ	0.026	<LOQ
Iron (ppm)	187.5 ± 99.6	103.3 ± 37.8	119.8 ± 52.4	175	163	70.0

**Table 28. Mineral Composition in Soybean Regimens from Trial 10 (Mean ± Standard Deviation)**

<b>Analyte</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Minerals</b>	n = 3	n = 3	n = 3	n = 1	n = 1	n = 1
Calcium (%dm)	0.329 ± 0.005	0.302 ± 0.010	0.309 ± 0.003	0.347	0.317	0.315
Magnesium (%dm)	0.241 ± 0.002	0.230 ± 0.006	0.234 ± 0.002	0.250	0.228	0.210
Phosphorus (%dm)	0.610 ± 0.030	0.607 ± 0.008	0.647 ± 0.024	0.558	0.562	0.567
Potassium (%dm)	1.84 ± 0.06	1.76 ± 0.03	1.85 ± 0.03	1.85	1.91	1.97
Sodium (%dm)	<LOQ to 0.015	0.025 ± 0.005	0.015 ± 0.003	<LOQ	<LOQ	<LOQ
Iron (ppm)	78.1 ± 1.4	76.7 ± 2.2	78.4 ± 0.6	70.1	67.2	64.6

**Table 29. Vitamin Composition in Soybean Regimens from Trial 01 (Mean ± Standard Deviation)**

<b>Analyte (ppm)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Tocopherols</b>						
Alpha (α)	13.9 ± 0.8	12.9 ± 1.7	14.2 ± 1.8	13.6	15.0	13.9
Beta (β)	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
Gamma (γ)	183 ± 4	181 ± 6	193 ± 11	163	172	153
Delta (δ)	85.4 ± 0.9	84.6 ± 2.5	89.4 ± 5.7	96.1	90.1	58.5
Total	283 ± 5	279 ± 7	297 ± 17	272	277	225
<b>Vitamins</b>						
Folic Acid	3.41 ± 0.35	3.32 ± 0.19	3.23 ± 0.41	3.53	3.62	3.79
Vitamin B1	3.4 ± 1.0	3.3 ± 0.1	2.2 ± 0.3	2.1	3.1	2.1
Vitamin B2	3.73 ± 0.13	4.22 ± 1.02	4.87 ± 1.04	3.40	4.55	3.69
Vitamin K	0.169 ± 0.048	0.148 ± 0.012	<LOQ to 0.149	<LOQ	0.120	<LOQ
Vitamin A	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ

**Table 30. Vitamin Composition in Soybean Regimens from Trial 02 (Mean ± Standard Deviation)**

<b>Analyte (ppm)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Tocopherols</b>						
Alpha (α)	13.4 ± 1.0	14.0 ± 1.6	14.0 ± 1.2	13.8	17.4	12.9
Beta (β)	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
Gamma (γ)	171 ± 6	186 ± 10	183 ± 8	166	179	155
Delta (δ)	86.0 ± 3.0	87.9 ± 1.8	89.8 ± 4.1	81.7	99.2	60.0
Total	270 ± 8	289 ± 12	287 ± 6	262	295	228
<b>Vitamins</b>						
Folic Acid	2.57 ± 0.07	2.93 ± 0.09	2.69 ± 0.26	3.15	3.20	3.47
Vitamin B1	2.0 ± 0.2	1.8 ± 0.1	2.2 ± 0.4	2.9	1.6	1.8
Vitamin B2	4.43 ± 1.07	3.80 ± 0.22	4.21 ± 0.77	4.49	3.86	3.59
Vitamin K	<LOQ	<LOQ	<LOQ to 0.182	0.147	<LOQ	<LOQ
Vitamin A	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ

**Table 31. Vitamin Composition in Soybean Regimens from Trial 03 (Mean ± Standard Deviation)**

<b>Analyte (ppm)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Tocopherols</b>						
Alpha (α)	13.4 ± 0.3	15.4 ± 2.7	17.7 ± 2.5	15.5	17.3	16.1
Beta (β)	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
Gamma (γ)	177 ± 5	191 ± 11	197 ± 9	185	190	169
Delta (δ)	78.2 ± 0.7	82.7 ± 1.8	85.2 ± 2.2	81.4	84.9	52.9
Total	269 ± 5	289 ± 15	300 ± 13	282	292	238
<b>Vitamins</b>						
Folic Acid	2.74 ± 0.18	3.07 ± 0.16	2.91 ± 0.36	2.97	3.45	3.17
Vitamin B1	3.2 ± 0.3	2.6 ± 0.7	2.0 ± 0.9	3.1	3.0	2.0
Vitamin B2	4.31 ± 0.83	4.86 ± 1.20	4.72 ± 1.02	3.74	4.12	5.63
Vitamin K	<LOQ to 0.172	0.174 ± 0.033	<LOQ to 0.174	0.184	0.126	0.144
Vitamin A	< LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ

**Table 32. Vitamin Composition in Soybean Regimens from Trial 04 (Mean ± Standard Deviation)**

Analyte (ppm)	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Tocopherols</b>						
Alpha (α)	17.5 ± 0.9	18.5 ± 0.9	21.3 ± 1.4	16.8	18.2	17.4
Beta (β)	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
Gamma (γ)	202 ± 4	196 ± 3	196 ± 2	182	174	163
Delta (δ)	76.2 ± 1.2	74.9 ± 3.2	69.7 ± 3.4	81.0	81.0	48.7
Total	295 ± 3	290 ± 6	286 ± 3	280	273	230
<b>Vitamins</b>						
Folic Acid	3.02 ± 0.08	3.06 ± 0.13	3.16 ± 0.18	3.01	3.76	3.93
Vitamin B1	3.8 ± 0.5	3.7 ± 0.3	3.5 ± 0.2	4.0	2.9	2.3
Vitamin B2	3.70 ± 0.34	4.80 ± 1.14	5.13 ± 0.95	4.13	3.77	4.20
Vitamin K	0.168 ± 0.050	0.207 ± 0.019	0.234 ± 0.021	0.138	0.151	0.192
Vitamin A	<LOQ	<LOQ to 0.234	<LOQ to 0.273	<LOQ	<LOQ	<LOQ



**Table 33. Vitamin Composition in Soybean Regimens from Trial 05 (Mean ± Standard Deviation)**

<b>Analyte (ppm)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Tocopherols</b>						
Alpha (α)	15.5 ± 1.2	18.1 ± 1.9	17.1 ± 1.3	13.5	16.5	16.1
Beta (β)	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
Gamma (γ)	194 ± 6	197 ± 10	194 ± 4	172	184	176
Delta (δ)	66.9 ± 2.3	70.9 ± 9.7	70.6 ± 1.1	70.8	76.5	45.6
Total	277 ± 6	286 ± 18	282 ± 4	256	278	238
<b>Vitamins</b>						
Folic Acid	2.69 ± 0.37	3.05 ± 0.08	3.16 ± 0.25	3.24	2.86	3.70
Vitamin B1	4.2 ± 0.6	3.9 ± 1.0	4.1 ± 0.0	3.5	2.3	2.7
Vitamin B2	4.44 ± 0.84	4.41 ± 0.74	4.45 ± 0.02	4.66	6.38	4.95
Vitamin K	<LOQ to 0.221	<LOQ to 0.260	0.208 ± 0.062	0.132	< LOQ	0.155
Vitamin A	<LOQ	< LOQ	< LOQ	<LOQ	<LOQ	<LOQ

**Table 34. Vitamin Composition in Soybean Regimens from Trial 06 (Mean ± Standard Deviation)**

<b>Analyte (ppm)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Tocopherols</b>						
Alpha (α)	16.9 ± 0.8	14.3 ± 1.2	15.9 ± 1.4	12.2	15.0	18.7
Beta (β)	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
Gamma (γ)	191 ± 6	193 ± 7	191 ± 5	156	164	172
Delta (δ)	69.9 ± 6.0	76.1 ± 7.4	74.9 ± 3.2	68.7	72.6	50.4
Total	278 ± 12	284 ± 13	282 ± 9	237	252	242
<b>Vitamins</b>						
Folic Acid	3.10 ± 0.43	3.00 ± 0.16	3.23 ± 0.14	3.42	3.16	3.50
Vitamin B1	3.8 ± 0.5	3.8 ± 0.1	3.9 ± 0.3	4.0	3.1	3.0
Vitamin B2	4.80 ± 1.51	3.94 ± 0.47	4.70 ± 1.32	3.89	4.07	3.66
Vitamin K	0.167 ± 0.054	0.260 ± 0.014	0.209 ± 0.055	0.206	0.203	0.142
Vitamin A	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ

**Table 35. Vitamin Composition in Soybean Regimens from Trial 07 (Mean ± Standard Deviation)**

Analyte (ppm)	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Tocopherols</b>						
Alpha (α)	21.6 ± 0.6	25.3 ± 2.7	25.7 ± 2.8	18.9	18.6	18.9
Beta (β)	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
Gamma (γ)	217 ± 5	214 ± 8	216 ± 5	168	187	189
Delta (δ)	71.6 ± 0.9	69.2 ± 1.4	69.5 ± 5.0	67.5	75.4	48.4
Total	310 ± 6	309 ± 11	311 ± 6	254	281	257
<b>Vitamins</b>						
Folic Acid	3.01 ± 0.16	2.75 ± 0.22	3.05 ± 0.28	3.64	3.44	3.45
Vitamin B1	4.1 ± 0.3	3.5 ± 1.5	3.2 ± 0.2	3.4	2.8	3.1
Vitamin B2	4.27 ± 0.24	4.84 ± 1.19	5.30 ± 0.83	3.36	4.86	5.79
Vitamin K	0.232 ± 0.023	0.211 ± 0.100	0.267 ± 0.047	0.162	0.227	0.242
Vitamin A	< LOQ	<LOQ	0.261 ± 0.029	<LOQ	<LOQ	<LOQ

**Table 36. Vitamin Composition in Soybean Regimens from Trial 08 (Mean ± Standard Deviation)**

<b>Analyte (ppm)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Tocopherols</b>						
Alpha (α)	20.4 ± 1.9	20.2 ± 2.7	23.4 ± 0.9	20.0	21.4	16.9
Beta (β)	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
Gamma (γ)	200 ± 12	208 ± 7	204 ± 10	186	196	188
Delta (δ)	71.0 ± 4.2	73.2 ± 2.0	71.7 ± 3.8	78.7	82.5	50.3
Total	292 ± 17	301 ± 11	299 ± 15	285	301	255
<b>Vitamins</b>						
Folic Acid	2.92 ± 0.19	2.80 ± 0.25	3.01 ± 0.42	3.26	3.59	3.04
Vitamin B1	3.5 ± 0.5	3.2 ± 0.4	3.4 ± 0.4	3.7	2.3	2.6
Vitamin B2	4.65 ± 0.21	4.47 ± 1.15	4.82 ± 1.14	3.71	5.55	4.36
Vitamin K	0.272 ± 0.036	< LOQ to 0.248	0.222 ± 0.072	0.166	0.131	<LOQ
Vitamin A	<LOQ to 0.243	0.303 ± 0.045	0.408 ± 0.015	<LOQ	<LOQ	<LOQ

**Table 37. Vitamin Composition in Soybean Regimens from Trial 09 (Mean ± Standard Deviation)**

<b>Analyte (ppm)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Tocopherols</b>						
Alpha (α)	24.0 ± 5.5	26.3 ± 2.0	31.0 ± 1.8	23.7	22.8	19.4
Beta (β)	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
Gamma (γ)	202 ± 18	213 ± 3	199 ± 3	183	199	174
Delta (δ)	64.9 ± 2.1	64.4 ± 3.6	55.9 ± 2.5	63.6	71.7	41.5
Total	291 ± 23	304 ± 1	286 ± 6	270	294	235
<b>Vitamins</b>						
Folic Acid	3.17 ± 0.57	3.62 ± 0.12	3.70 ± 0.13	3.78	3.34	4.33
Vitamin B1	4.0 ± 0.5	4.9 ± 0.4	4.5 ± 0.2	4.7	3.1	3.2
Vitamin B2	4.80 ± 1.49	4.78 ± 0.41	4.51 ± 0.67	4.01	3.90	4.44
Vitamin K	0.181 ± 0.049	0.277 ± 0.082	0.388 ± 0.044	0.247	< LOQ	0.263
Vitamin A	0.350 ± 0.047	0.557 ± 0.014	0.536 ± 0.033	<LOQ	<LOQ	<LOQ

**Table 38. Vitamin Composition in Soybean Regimens from Trial 10 (Mean ± Standard Deviation)**

<b>Analyte (ppm)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Tocopherols</b>						
Alpha (α)	17.8 ± 1.4	24.8 ± 1.1	26.8 ± 1.7	16.2	24.9	20.0
Beta (β)	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
Gamma (γ)	210 ± 5	219 ± 6	206 ± 7	183	237	189
Delta (δ)	70.7 ± 2.5	67.6 ± 2.2	63.4 ± 3.3	72.3	83.7	46.7
Total	299 ± 6	312 ± 9	296 ± 12	272	346	256
<b>Vitamins</b>						
Folic Acid	3.14 ± 0.29	3.08 ± 0.47	3.09 ± 0.23	2.19	3.31	4.16
Vitamin B1	4.0 ± 0.3	3.7 ± 0.4	2.5 ± 0.5	2.9	3.1	2.7
Vitamin B2	5.07 ± 1.08	5.04 ± 1.21	5.34 ± 0.72	5.87	4.42	4.21
Vitamin K	0.304 ± 0.032	0.270 ± 0.119	0.226 ± 0.085	<LOQ	0.229	0.239
Vitamin A	<LOQ ± 0.232	0.332 ± 0.050	0.395 ± 0.029	<LOQ	<LOQ	<LOQ

**Table 39. Anti-nutrient Composition in Soybean Regimens from Trial 01 (Mean ± Standard Deviation)**

Analyte	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Anti-nutrients</b>						
Phytic Acid (%dm)	1.10 ± 0.10	0.95 ± 0.08	0.84 ± 0.08	1.01	1.10	1.04
Raffinose (%dm)	0.341 ± 0.023	0.363 ± 0.041	0.347 ± 0.005	0.404	0.375	0.338
Stachyose (%dm)	2.32 ± 0.29	2.21 ± 0.11	2.35 ± 0.04	2.96	2.38	2.27
Trypsin Inhibitor (TIU/mg) <sup>a</sup>	30.0 ± 4.9	23.3 ± 3.2	29.0 ± 5.7	60.1	34.5	29.3
Lectin (HU/mg) <sup>b</sup>	1.75 ± 0.09	1.33 ± 0.18	1.50 ± 0.12	1.93	0.901	0.455

**Table 40. Anti-nutrient Composition in Soybean Regimens from Trial 02 (Mean ± Standard Deviation)**

Analyte	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Anti-nutrients</b>						
Phytic Acid (%dm)	1.41 ± 0.09	1.39 ± 0.04	1.36 ± 0.12	1.16	1.14	1.14
Raffinose (%dm)	0.348 ± 0.009	0.352 ± 0.012	0.336 ± 0.010	0.448	0.351	0.290
Stachyose (%dm)	2.68 ± 0.13	2.47 ± 0.05	2.50 ± 0.33	2.80	2.61	2.23
Trypsin Inhibitor (TIU/mg) <sup>a</sup>	28.3 ± 5.4	25.0 ± 0.5	30.7 ± 6.0	34.9	41.8	38.4
Lectin (HU/mg) <sup>b</sup>	1.72 ± 0.17	1.26 ± 0.17	1.32 ± 0.13	1.53	1.07	0.690

<sup>a</sup> TIU = Trypsin Inhibitor Unit

<sup>b</sup> HU = Hemagglutinating Unit

**Table 41. Anti-nutrient Composition in Soybean Regimens from Trial 03 (Mean ± Standard Deviation)**

Analyte	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Anti-nutrients</b>						
Phytic Acid (%dm)	1.62 ± 0.08	1.82 ± 0.12	1.71 ± 0.16	1.50	1.48	1.36
Raffinose (%dm)	0.382 ± 0.039	0.408 ± 0.048	0.382 ± 0.013	0.439	0.504	0.363
Stachyose (%dm)	2.49 ± 0.35	2.47 ± 0.12	2.58 ± 0.30	2.56	2.69	2.76
Trypsin Inhibitor (TIU/mg) <sup>a</sup>	30.0 ± 7.4	34.3 ± 6.8	31.6 ± 7.3	41.7	38.9	29.8
Lectin (HU/mg) <sup>b</sup>	1.48 ± 0.57	1.30 ± 0.58	1.35 ± 0.25	2.47	1.48	0.966

**Table 42. Anti-nutrient Composition in Soybean Regimens from Trial 04 (Mean ± Standard Deviation)**

Analyte	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Anti-nutrients</b>						
Phytic Acid (%dm)	1.54 ± 0.04	1.47 ± 0.18	1.33 ± 0.12	1.39	1.33	1.19
Raffinose (%dm)	0.381 ± 0.034	0.426 ± 0.040	0.41 4 ± 0.019	0.501	0.474	0.319
Stachyose (%dm)	2.51 ± 0.34	2.34 ± 0.26	2.37 ± 0.12	2.72	2.46	2.34
Trypsin Inhibitor (TIU/mg) <sup>a</sup>	31.7 ± 4.3	32.2 ± 7.6	37.6 ± 2.0	29.5	34.0	26.0
Lectin (HU/mg) <sup>b</sup>	2.33 ± 1.76	1.34 ± 0.40	1.58 ± 0.58	1.79	0.908	0.801

<sup>a</sup> TIU = Trypsin Inhibitor Unit

<sup>b</sup> HU = Hemagglutinating Unit



**Table 43. Anti-nutrient Composition in Soybean Regimens from Trial 05 (Mean  $\pm$  Standard Deviation)**

Analyte	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Anti-nutrients</b>						
Phytic Acid (%dm)	1.53 $\pm$ 0.10	1.40 $\pm$ 0.16	1.48 $\pm$ 0.06	0.964	1.17	0.984
Raffinose (%dm)	0.364 $\pm$ 0.028	0.390 $\pm$ 0.046	0.413 $\pm$ 0.034	0.332	0.470	0.338
Stachyose (%dm)	2.41 $\pm$ 0.24	2.36 $\pm$ 0.24	2.40 $\pm$ 0.30	2.35	2.80	2.33
Trypsin Inhibitor (TIU/mg) <sup>a</sup>	37.5 $\pm$ 0.8	30.2 $\pm$ 5.9	37.5 $\pm$ 9.6	39.4	28.2	26.3
Lectin (HU/mg) <sup>b</sup>	1.66 $\pm$ 0.40	1.27 $\pm$ 0.62	1.36 $\pm$ 0.64	1.73	1.13	1.16

**Table 44. Anti-nutrient Composition in Soybean Regimens from Trial 06 (Mean  $\pm$  Standard Deviation)**

Analyte	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Anti-nutrients</b>						
Phytic Acid (%dm)	1.45 $\pm$ 0.14	1.34 $\pm$ 0.03	1.35 $\pm$ 0.12	1.37	1.43	1.33
Raffinose (%dm)	0.364 $\pm$ 0.023	0.309 $\pm$ 0.025	0.317 $\pm$ 0.005	0.416	0.386	0.359
Stachyose (%dm)	2.59 $\pm$ 0.28	2.33 $\pm$ 0.15	2.49 $\pm$ 0.05	2.68	2.42	2.37
Trypsin Inhibitor (TIU/mg) <sup>a</sup>	32.7 $\pm$ 8.0	26.7 $\pm$ 4.2	33.8 $\pm$ 3.0	42.2	37.0	35.9
Lectin (HU/mg) <sup>b</sup>	2.05 $\pm$ 0.24	1.26 $\pm$ 0.41	1.99 $\pm$ 0.62	8.63	1.22	1.32

<sup>a</sup> TIU = Trypsin Inhibitor Unit

<sup>b</sup> HU = Hemagglutinating Unit

**Table 45. Anti-nutrient Composition in Soybean Regimens from Trial 07 (Mean  $\pm$  Standard Deviation)**

Analyte	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Anti-nutrients</b>						
Phytic Acid (%dm)	1.37 $\pm$ 0.07	1.26 $\pm$ 0.17	1.30 $\pm$ 0.07	1.37	1.23	1.42
Raffinose (%dm)	0.365 $\pm$ 0.040	0.367 $\pm$ 0.015	0.388 $\pm$ 0.060	0.366	0.339	0.358
Stachyose (%dm)	2.31 $\pm$ 0.20	2.60 $\pm$ 0.12	2.61 $\pm$ 0.14	2.32	2.55	2.67
Trypsin Inhibitor (TIU/mg) <sup>a</sup>	41.2 $\pm$ 10.2	32.7 $\pm$ 8.5	39.7 $\pm$ 3.4	35.7	31.2	24.4
Lectin (HU/mg) <sup>b</sup>	1.52 $\pm$ 0.30	1.84 $\pm$ 1.07	1.51 $\pm$ 0.32	1.46	1.13	0.591

**Table 46. Anti-nutrient Composition in Soybean Regimens from Trial 08 (Mean  $\pm$  Standard Deviation)**

Analyte	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Anti-nutrients</b>						
Phytic Acid (%dm)	1.35 $\pm$ 0.03	1.36 $\pm$ 0.15	1.26 $\pm$ 0.14	1.41	1.24	1.22
Raffinose (%dm)	0.411 $\pm$ 0.015	0.461 $\pm$ 0.059	0.505 $\pm$ 0.006	0.465	0.391	0.362
Stachyose (%dm)	2.57 $\pm$ 0.07	2.44 $\pm$ 0.09	2.59 $\pm$ 0.10	2.66	2.75	2.74
Trypsin Inhibitor (TIU/mg) <sup>a</sup>	34.4 $\pm$ 6.6	32.7 $\pm$ 7.9	33.2 $\pm$ 5.0	45.2	29.7	23.5
Lectin (HU/mg) <sup>b</sup>	1.82 $\pm$ 0.06	1.38 $\pm$ 0.35	1.87 $\pm$ 0.40	1.84	1.40	0.936

<sup>a</sup> TIU = Trypsin Inhibitor Unit

<sup>b</sup> HU = Hemagglutinating Unit

**Table 47. Anti-nutrient Composition in Soybean Regimens from Trial 09 (Mean  $\pm$  Standard Deviation)**

Analyte	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Anti-nutrients</b>						
Phytic Acid (%dm)	1.29 $\pm$ 0.07	1.40 $\pm$ 0.08	1.41 $\pm$ 0.09	1.35	1.23	1.26
Raffinose (%dm)	0.349 $\pm$ 0.029	0.378 $\pm$ 0.021	0.360 $\pm$ 0.005	0.379	0.382	0.395
Stachyose (%dm)	2.62 $\pm$ 0.29	2.57 $\pm$ 0.29	2.69 $\pm$ 0.07	2.78	2.80	2.42
Trypsin Inhibitor (TIU/mg) <sup>a</sup>	36.4 $\pm$ 2.1	32.0 $\pm$ 4.7	32.4 $\pm$ 6.1	31.4	24.6	36.7
Lectin (HU/mg) <sup>b</sup>	1.39 $\pm$ 0.49	1.17 $\pm$ 0.41	1.68 $\pm$ 0.52	2.35	1.41	1.94

**Table 48. Anti-nutrient Composition in Soybean Regimens from Trial 10 (Mean  $\pm$  Standard Deviation)**

Analyte	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Anti-nutrients</b>						
Phytic Acid (%dm)	1.35 $\pm$ 0.06	1.36 $\pm$ 0.14	1.41 $\pm$ 0.06	1.08	1.24	1.17
Raffinose (%dm)	0.304 $\pm$ 0.024	0.330 $\pm$ 0.017	0.328 $\pm$ 0.029	0.352	0.388	0.372
Stachyose (%dm)	2.40 $\pm$ 0.10	2.42 $\pm$ 0.03	2.41 $\pm$ 0.10	2.80	2.23	2.42
Trypsin Inhibitor (TIU/mg) <sup>a</sup>	27.8 $\pm$ 6.6	31.6 $\pm$ 5.4	33.5 $\pm$ 4.7	29.8	49.5	33.4
Lectin (HU/mg) <sup>b</sup>	1.73 $\pm$ 0.36	1.84 $\pm$ 0.52	1.28 $\pm$ 0.20	2.00	1.14	0.889

<sup>a</sup> TIU = Trypsin Inhibitor Unit

<sup>b</sup> HU = Hemagglutinating Unit

**Table 49. Isoflavone Composition in Soybean Regimens from Trial 01 (Mean ± Standard Deviation)**

Analyte (ppm)	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Isoflavones</b>						
Daidzein	14.1 ± 1.8	<LOQ to 13.8	<LOQ to 11.3	<LOQ	11.3	11.1
Glycitein	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
Genistein	12.1 ± 0.7	<LOQ to 12.9	<LOQ to 11.5	<LOQ	<LOQ	<LOQ
Daidzin	1750 ± 125	1650 ± 36	1717 ± 86	1310	1520	2300
Glycitin	383 ± 18	438 ± 14	396 ± 10	149	298	204
Genistin	2663 ± 127	2383 ± 67	2367 ± 42	2480	2450	2470
Total <sup>a</sup>	3000 ± 176	2793 ± 59	2787 ± 90	2450	2660	3090

**Table 50. Isoflavone Composition in Soybean Regimens from Trial 02 (Mean ± Standard Deviation)**

Analyte (ppm)	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Isoflavones</b>						
Daidzein	<LOQ	<LOQ to 15.1	<LOQ to 14.6	14.0	<LOQ	<LOQ
Glycitein	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
Genistein	<LOQ to 12.2	<LOQ to 15.7	<LOQ to 11.8	20.6	<LOQ	<LOQ
Daidzin	1295 ± 432	1490 ± 46	1170 ± 385	1570	1890	2530
Glycitin	318 ± 28	354 ± 15	308 ± 121	174	246	192
Genistin	2087 ± 527	2127 ± 133	2003 ± 206	3290	2980	2760
Total <sup>a</sup>	2303 ± 612	2473 ± 129	2170 ± 442	3170	3170	3390

<sup>a</sup> Total isoflavones calculated as aglycon equivalents.

**Table 51. Isoflavone Composition in Soybean Regimens from Trial 03 (Mean ± Standard Deviation)**

Analyte (ppm)	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Isoflavones</b>						
Daidzein	<LOQ to 12.1	<LOQ to 11.3	<LOQ to 12.6	<LOQ	11.7	<LOQ
Glycitein	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
Genistein	13.3 ± 0.5	<LOQ to 14.7	<LOQ to 11.6	15.4	<LOQ	<LOQ
Daidzin	1157 ± 55	1177 ± 15	1180 ± 20	1160	1390	1910
Glycitin	361 ± 20	420 ± 1	385 ± 5	204	315	226
Genistin	2110 ± 62	1917 ± 57	1907 ± 31	2580	2530	2300
Total <sup>a</sup>	2270 ± 70	2190 ± 56	2160 ± 26	2470	2640	2750

**Table 52. Isoflavone Composition in Soybean Regimens from Trial 04 (Mean ± Standard Deviation)**

Analyte (ppm)	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Isoflavones</b>						
Daidzein	<LOQ	<LOQ	<LOQ	<LOQ	12.5	<LOQ
Glycitein	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
Genistein	12.6 ± 0.2	12.1 ± 1.5	<LOQ to 12.1	<LOQ	<LOQ	<LOQ
Daidzin	1080 ± 30	1137 ± 40	1042 ± 102	1260	1290	1810
Glycitin	387 ± 27	447 ± 49	423 ± 15	175	273	216
Genistin	1970 ± 75	1893 ± 106	1760 ± 173	2560	2420	2110
Total <sup>a</sup>	2147 ± 50	2173 ± 55	2007 ± 169	2490	2490	2560

<sup>a</sup> Total isoflavones calculated as aglycon equivalents.

**Table 53. Isoflavone Composition in Soybean Regimens from Trial 05 (Mean ± Standard Deviation)**

Analyte (ppm)	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Isoflavones</b>						
Daidzein	<LOQ to 17.5	<LOQ to 12.8	<LOQ	<LOQ	<LOQ	14.0
Glycitein	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
Genistein	16.1 ± 1.6	13.9 ± 1.3	11.6 ± 0.5	14.0	<LOQ	<LOQ
Daidzin	1083 ± 15	1123 ± 128	1100 ± 72	1140	1110	1990
Glycitin	398 ± 42	460 ± 47	432 ± 3	142	255	229
Genistin	1877 ± 6	1767 ± 197	1740 ± 66	2460	1900	2200
Total <sup>a</sup>	2117 ± 21	2103 ± 211	2047 ± 76	2340	2030	2750

**Table 54. Isoflavone Composition in Soybean Regimens from Trial 06 (Mean ± Standard Deviation)**

Analyte (ppm)	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Isoflavones</b>						
Daidzein	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
Glycitein	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
Genistein	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
Daidzin	932 ± 67	999 ± 48	1012 ± 42	807	1030	1850
Glycitin	314 ± 19	366 ± 28	377 ± 13	156	278	215
Genistin	1673 ± 72	1693 ± 106	1660 ± 80	1710	1770	2080
Total <sup>a</sup>	1817 ± 101	1900 ± 80	1900 ± 75	1660	1920	2560

<sup>a</sup> Total isoflavones calculated as aglycon equivalents.

**Table 55. Isoflavone Composition in Soybean Regimens from Trial 07 (Mean ± Standard Deviation)**

Analyte (ppm)	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Isoflavones</b>						
Daidzein	12.3 ± 1.3	<LOQ	<LOQ	<LOQ	<LOQ	11.4
Glycitein	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
Genistein	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
Daidzin	900 ± 30	728 ± 53	739 ± 67	988	991	1760
Glycitin	387 ± 24	390 ± 11	409 ± 44	184	254	241
Genistin	1817 ± 6	1477 ± 107	1493 ± 121	2290	1980	2150
Total <sup>a</sup>	1937 ± 12	1617 ± 101	1640 ± 142	2150	2000	2580

**Table 56. Isoflavone Composition in Soybean Regimens from Trial 08 (Mean ± Standard Deviation)**

Analyte (ppm)	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Isoflavones</b>						
Daidzein	<LOQ	<LOQ to 13.1	<LOQ	<LOQ	<LOQ	<LOQ
Glycitein	<LOQ	<LOQ	< LOQ	< LOQ	<LOQ	<LOQ
Genistein	<LOQ	<LOQ	<LOQ to 12.2	<LOQ	<LOQ	<LOQ
Daidzin	985 ± 52	935 ± 50	910 ± 58	1270	1420	1940
Glycitin	385 ± 48	431 ± 33	409 ± 73	195	258	215
Genistin	1767 ± 80	1660 ± 95	1593 ± 80	2640	2530	2160
Total <sup>a</sup>	1953 ± 101	1880 ± 115	1820 ± 140	2550	2610	2670

<sup>a</sup> Total isoflavones calculated as aglycon equivalents.

**Table 57. Isoflavone Composition in Soybean Regimens from Trial 09 (Mean ± Standard Deviation)**

Analyte (ppm)	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Isoflavones</b>						
Daidzein	<LOQ	<LOQ to 13.2	<LOQ	<LOQ	<LOQ	<LOQ
Glycitein	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
Genistein	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
Daidzin	533 ± 49	486 ± 61	461 ± 54	568	750	1080
Glycitin	380 ± 24	447 ± 9	444 ± 45	170	281	237
Genistin	890 ± 51	715 ± 77	736 ± 112	1130	1300	1250
Total <sup>a</sup>	1120 ± 75	1030 ± 89	1024 ± 124	1160	1450	1590

**Table 58. Isoflavone Composition in Soybean Regimens from Trial 10 (Mean ± Standard Deviation)**

Analyte (ppm)	A Jack	B FG72 Unsprayed	C FG72 Sprayed	D 2686-6	E 2788	F 3000-0
<b>Isoflavones</b>						
Daidzein	<LOQ to 13.1	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
Glycitein	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
Genistein	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
Daidzin	638 ± 37	620 ± 11	606 ± 7	773	736	1140
Glycitin	341 ± 36	392 ± 37	418 ± 26	181	303	203
Genistin	1317 ± 50	1190 ± 36	1143 ± 15	1800	1450	1500
Total <sup>a</sup>	1433 ± 81	1373 ± 32	1353 ± 23	1710	1550	1760

<sup>a</sup> Total isoflavones calculated as aglycon equivalents.



**Table 59. Amino Acid Composition in Soybean Regimens from Trial 01 (Mean  $\pm$  Standard Deviation)**

<b>Analyte (% dm)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Amino Acids</b>						
Aspartic Acid	4.36 $\pm$ 0.05	4.46 $\pm$ 0.06	4.33 $\pm$ 0.07	4.57	4.43	4.29
Threonine	1.53 $\pm$ 0.01	1.58 $\pm$ 0.02	1.51 $\pm$ 0.03	1.62	1.56	1.55
Serine	1.92 $\pm$ 0.04	2.04 $\pm$ 0.05	1.97 $\pm$ 0.06	2.13	1.91	1.95
Glutamic Acid	6.71 $\pm$ 0.10	6.96 $\pm$ 0.14	6.71 $\pm$ 0.12	7.20	7.04	6.76
Proline	1.84 $\pm$ 0.02	1.87 $\pm$ 0.04	1.81 $\pm$ 0.05	1.92	1.85	1.84
Glycine	1.67 $\pm$ 0.02	1.69 $\pm$ 0.03	1.68 $\pm$ 0.02	1.73	1.67	1.64
Alanine	1.68 $\pm$ 0.02	1.69 $\pm$ 0.03	1.66 $\pm$ 0.03	1.74	1.71	1.62
Cystine	0.56 $\pm$ 0.02	0.54 $\pm$ 0.03	0.56 $\pm$ 0.01	0.60	0.58	0.56
Valine	1.92 $\pm$ 0.04	1.90 $\pm$ 0.05	1.90 $\pm$ 0.04	1.92	1.94	1.76
Methionine	0.53 $\pm$ 0.01	0.52 $\pm$ 0.02	0.54 $\pm$ 0.00	0.57	0.56	0.55
Isoleucine	1.82 $\pm$ 0.03	1.82 $\pm$ 0.05	1.79 $\pm$ 0.03	1.84	1.85	1.68
Leucine	2.99 $\pm$ 0.03	3.07 $\pm$ 0.06	2.97 $\pm$ 0.04	3.10	2.99	2.88
Tyrosine	1.40 $\pm$ 0.02	1.44 $\pm$ 0.02	1.40 $\pm$ 0.03	1.48	1.41	1.38
Phenylalanine	1.97 $\pm$ 0.02	2.05 $\pm$ 0.04	1.94 $\pm$ 0.03	2.03	2.04	1.94
Lysine	2.45 $\pm$ 0.02	2.50 $\pm$ 0.04	2.46 $\pm$ 0.03	2.59	2.57	2.43
Histidine	1.05 $\pm$ 0.01	1.07 $\pm$ 0.02	1.04 $\pm$ 0.02	1.06	1.05	1.00
Arginine	2.95 $\pm$ 0.02	3.07 $\pm$ 0.05	2.96 $\pm$ 0.04	3.12	3.12	2.98
Tryptophan	0.47 $\pm$ 0.04	0.44 $\pm$ 0.05	0.44 $\pm$ 0.01	0.47	0.49	0.46

**Table 60. Amino Acid Composition in Soybean Regimens from Trial 02 (Mean  $\pm$  Standard Deviation)**

<b>Analyte (% dm)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Amino Acids</b>						
Aspartic Acid	4.47 $\pm$ 0.04	4.53 $\pm$ 0.08	4.42 $\pm$ 0.07	4.24	4.37	4.26
Threonine	1.59 $\pm$ 0.01	1.57 $\pm$ 0.03	1.59 $\pm$ 0.03	1.52	1.53	1.51
Serine	2.04 $\pm$ 0.03	2.05 $\pm$ 0.05	2.01 $\pm$ 0.04	1.96	2.01	1.96
Glutamic Acid	6.91 $\pm$ 0.05	7.08 $\pm$ 0.15	6.82 $\pm$ 0.10	6.56	6.96	6.72
Proline	1.86 $\pm$ 0.04	1.94 $\pm$ 0.05	1.87 $\pm$ 0.03	1.80	1.80	1.79
Glycine	1.70 $\pm$ 0.03	1.73 $\pm$ 0.02	1.69 $\pm$ 0.03	1.60	1.63	1.62
Alanine	1.70 $\pm$ 0.01	1.72 $\pm$ 0.03	1.69 $\pm$ 0.03	1.63	1.67	1.62
Cystine	0.60 $\pm$ 0.02	0.61 $\pm$ 0.00	0.61 $\pm$ 0.02	0.59	0.57	0.57
Valine	1.89 $\pm$ 0.03	1.95 $\pm$ 0.02	1.87 $\pm$ 0.04	1.76	1.85	1.74
Methionine	0.57 $\pm$ 0.03	0.57 $\pm$ 0.01	0.57 $\pm$ 0.02	0.54	0.55	0.55
Isoleucine	1.81 $\pm$ 0.01	1.85 $\pm$ 0.02	1.80 $\pm$ 0.04	1.70	1.76	1.67
Leucine	3.04 $\pm$ 0.01	3.08 $\pm$ 0.04	3.02 $\pm$ 0.05	2.87	2.95	2.86
Tyrosine	1.42 $\pm$ 0.03	1.41 $\pm$ 0.05	1.42 $\pm$ 0.02	1.36	1.41	1.36
Phenylalanine	2.00 $\pm$ 0.02	2.02 $\pm$ 0.03	2.01 $\pm$ 0.02	1.88	1.95	1.88
Lysine	2.49 $\pm$ 0.01	2.52 $\pm$ 0.03	2.50 $\pm$ 0.03	2.41	2.51	2.42
Histidine	1.06 $\pm$ 0.01	1.08 $\pm$ 0.02	1.06 $\pm$ 0.01	0.98	1.03	1.00
Arginine	3.00 $\pm$ 0.03	3.09 $\pm$ 0.06	3.02 $\pm$ 0.07	2.82	3.02	2.90
Tryptophan	0.43 $\pm$ 0.01	0.42 $\pm$ 0.02	0.47 $\pm$ 0.03	0.43	0.42	0.44

**Table 61. Amino Acid Composition in Soybean Regimens from Trial 03 (Mean  $\pm$  Standard Deviation)**

<b>Analyte (% dm)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Amino Acids</b>						
Aspartic Acid	4.38 $\pm$ 0.06	4.44 $\pm$ 0.03	4.45 $\pm$ 0.07	4.27	4.18	4.42
Threonine	1.55 $\pm$ 0.02	1.58 $\pm$ 0.03	1.55 $\pm$ 0.01	1.55	1.47	1.52
Serine	1.99 $\pm$ 0.02	2.02 $\pm$ 0.04	2.02 $\pm$ 0.05	1.92	1.83	1.95
Glutamic Acid	6.74 $\pm$ 0.12	6.87 $\pm$ 0.05	6.87 $\pm$ 0.13	6.53	6.56	7.02
Proline	1.83 $\pm$ 0.03	1.84 $\pm$ 0.03	1.83 $\pm$ 0.03	1.80	1.74	1.91
Glycine	1.67 $\pm$ 0.02	1.69 $\pm$ 0.01	1.70 $\pm$ 0.02	1.62	1.58	1.68
Alanine	1.66 $\pm$ 0.03	1.70 $\pm$ 0.01	1.70 $\pm$ 0.02	1.65	1.62	1.69
Cystine	0.58 $\pm$ 0.02	0.60 $\pm$ 0.01	0.61 $\pm$ 0.03	0.63	0.55	0.57
Valine	1.85 $\pm$ 0.04	1.89 $\pm$ 0.02	1.92 $\pm$ 0.03	1.82	1.82	1.91
Methionine	0.54 $\pm$ 0.02	0.56 $\pm$ 0.01	0.56 $\pm$ 0.01	0.57	0.54	0.54
Isoleucine	1.77 $\pm$ 0.04	1.80 $\pm$ 0.04	1.81 $\pm$ 0.03	1.78	1.73	1.80
Leucine	2.97 $\pm$ 0.04	3.03 $\pm$ 0.02	3.01 $\pm$ 0.06	2.92	2.82	2.96
Tyrosine	1.39 $\pm$ 0.04	1.42 $\pm$ 0.01	1.40 $\pm$ 0.02	1.37	1.32	1.40
Phenylalanine	1.95 $\pm$ 0.02	2.00 $\pm$ 0.04	1.97 $\pm$ 0.04	1.90	1.87	1.94
Lysine	2.47 $\pm$ 0.03	2.52 $\pm$ 0.02	2.50 $\pm$ 0.03	2.48	2.42	2.53
Histidine	1.04 $\pm$ 0.02	1.06 $\pm$ 0.01	1.06 $\pm$ 0.01	0.99	0.98	1.04
Arginine	2.94 $\pm$ 0.03	3.06 $\pm$ 0.03	3.00 $\pm$ 0.04	2.86	2.82	3.04
Tryptophan	0.46 $\pm$ 0.04	0.44 $\pm$ 0.01	0.43 $\pm$ 0.02	0.48	0.45	0.45

**Table 62. Amino Acid Composition in Soybean Regimens from Trial 04 (Mean  $\pm$  Standard Deviation)**

<b>Analyte (% dm)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Amino Acids</b>						
Aspartic Acid	4.31 $\pm$ 0.06	4.19 $\pm$ 0.10	4.29 $\pm$ 0.12	4.29	4.14	4.45
Threonine	1.53 $\pm$ 0.05	1.48 $\pm$ 0.04	1.49 $\pm$ 0.04	1.55	1.44	1.54
Serine	1.95 $\pm$ 0.03	1.84 $\pm$ 0.08	1.94 $\pm$ 0.02	1.95	1.77	1.99
Glutamic Acid	6.59 $\pm$ 0.09	6.47 $\pm$ 0.15	6.65 $\pm$ 0.16	6.62	6.56	7.11
Proline	1.77 $\pm$ 0.06	1.77 $\pm$ 0.05	1.85 $\pm$ 0.06	1.82	1.76	1.91
Glycine	1.65 $\pm$ 0.02	1.63 $\pm$ 0.03	1.66 $\pm$ 0.03	1.62	1.58	1.70
Alanine	1.66 $\pm$ 0.03	1.64 $\pm$ 0.03	1.67 $\pm$ 0.03	1.65	1.62	1.71
Cystine	0.56 $\pm$ 0.03	0.56 $\pm$ 0.00	0.59 $\pm$ 0.02	0.58	0.50	0.55
Valine	1.86 $\pm$ 0.05	1.86 $\pm$ 0.03	1.88 $\pm$ 0.04	1.80	1.85	1.91
Methionine	0.53 $\pm$ 0.03	0.52 $\pm$ 0.01	0.54 $\pm$ 0.01	0.55	0.51	0.55
Isoleucine	1.77 $\pm$ 0.05	1.78 $\pm$ 0.03	1.79 $\pm$ 0.04	1.72	1.76	1.82
Leucine	2.96 $\pm$ 0.06	2.90 $\pm$ 0.06	2.93 $\pm$ 0.06	2.88	2.82	2.99
Tyrosine	1.40 $\pm$ 0.02	1.34 $\pm$ 0.02	1.34 $\pm$ 0.05	1.39	1.32	1.38
Phenylalanine	1.96 $\pm$ 0.06	1.93 $\pm$ 0.04	1.91 $\pm$ 0.04	1.89	1.88	1.96
Lysine	2.45 $\pm$ 0.03	2.39 $\pm$ 0.04	2.45 $\pm$ 0.05	2.44	2.39	2.54
Histidine	1.04 $\pm$ 0.02	1.01 $\pm$ 0.02	1.03 $\pm$ 0.02	0.99	0.98	1.05
Arginine	2.90 $\pm$ 0.05	2.85 $\pm$ 0.08	2.91 $\pm$ 0.09	2.86	2.83	3.03
Tryptophan	0.45 $\pm$ 0.03	0.46 $\pm$ 0.02	0.46 $\pm$ 0.01	0.49	0.45	0.47

**Table 63. Amino Acid Composition in Soybean Regimens from Trial 05 (Mean  $\pm$  Standard Deviation)**

<b>Analyte (% dm)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Amino Acids</b>						
Aspartic Acid	4.33 $\pm$ 0.09	4.37 $\pm$ 0.15	4.30 $\pm$ 0.05	4.44	4.17	4.42
Threonine	1.52 $\pm$ 0.01	1.52 $\pm$ 0.03	1.52 $\pm$ 0.03	1.54	1.47	1.50
Serine	1.91 $\pm$ 0.07	1.98 $\pm$ 0.04	1.92 $\pm$ 0.08	1.98	1.92	1.93
Glutamic Acid	6.66 $\pm$ 0.13	6.79 $\pm$ 0.29	6.64 $\pm$ 0.11	6.88	6.63	7.00
Proline	1.80 $\pm$ 0.06	1.85 $\pm$ 0.08	1.79 $\pm$ 0.01	1.88	1.71	1.87
Glycine	1.67 $\pm$ 0.04	1.68 $\pm$ 0.06	1.66 $\pm$ 0.02	1.68	1.57	1.68
Alanine	1.67 $\pm$ 0.03	1.68 $\pm$ 0.06	1.66 $\pm$ 0.03	1.70	1.59	1.69
Cystine	0.56 $\pm$ 0.01	0.59 $\pm$ 0.01	0.59 $\pm$ 0.02	0.58	0.56	0.57
Valine	1.88 $\pm$ 0.06	1.89 $\pm$ 0.10	1.86 $\pm$ 0.08	1.91	1.72	1.91
Methionine	0.53 $\pm$ 0.01	0.54 $\pm$ 0.01	0.54 $\pm$ 0.02	0.55	0.54	0.54
Isoleucine	1.80 $\pm$ 0.04	1.79 $\pm$ 0.09	1.79 $\pm$ 0.07	1.85	1.66	1.82
Leucine	2.94 $\pm$ 0.05	2.97 $\pm$ 0.10	2.94 $\pm$ 0.05	3.00	2.80	2.97
Tyrosine	1.38 $\pm$ 0.01	1.39 $\pm$ 0.05	1.36 $\pm$ 0.01	1.40	1.34	1.39
Phenylalanine	1.94 $\pm$ 0.01	1.94 $\pm$ 0.07	1.94 $\pm$ 0.04	1.96	1.83	1.96
Lysine	2.44 $\pm$ 0.03	2.47 $\pm$ 0.08	2.44 $\pm$ 0.03	2.53	2.38	2.52
Histidine	1.02 $\pm$ 0.02	1.05 $\pm$ 0.04	1.03 $\pm$ 0.02	1.03	0.97	1.04
Arginine	2.88 $\pm$ 0.04	2.95 $\pm$ 0.13	2.88 $\pm$ 0.00	2.95	2.85	3.01
Tryptophan	0.45 $\pm$ 0.04	0.42 $\pm$ 0.03	0.44 $\pm$ 0.04	0.50	0.42	0.44

**Table 64. Amino Acid Composition in Soybean Regimens from Trial 06 (Mean  $\pm$  Standard Deviation)**

<b>Analyte (% dm)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Amino Acids</b>						
Aspartic Acid	4.59 $\pm$ 0.02	4.49 $\pm$ 0.11	4.52 $\pm$ 0.03	4.67	4.55	4.45
Threonine	1.58 $\pm$ 0.01	1.59 $\pm$ 0.01	1.58 $\pm$ 0.03	1.58	1.60	1.60
Serine	2.02 $\pm$ 0.05	2.04 $\pm$ 0.06	2.07 $\pm$ 0.04	2.00	2.00	2.02
Glutamic Acid	7.02 $\pm$ 0.04	6.92 $\pm$ 0.20	6.99 $\pm$ 0.03	7.23	7.22	7.01
Proline	1.89 $\pm$ 0.02	1.83 $\pm$ 0.09	1.89 $\pm$ 0.03	1.94	1.87	1.86
Glycine	1.75 $\pm$ 0.01	1.72 $\pm$ 0.03	1.72 $\pm$ 0.02	1.76	1.70	1.69
Alanine	1.74 $\pm$ 0.01	1.70 $\pm$ 0.04	1.71 $\pm$ 0.01	1.78	1.73	1.68
Cystine	0.59 $\pm$ 0.01	0.58 $\pm$ 0.01	0.56 $\pm$ 0.06	0.59	0.58	0.59
Valine	1.97 $\pm$ 0.05	1.91 $\pm$ 0.05	1.91 $\pm$ 0.03	2.03	1.96	1.82
Methionine	0.56 $\pm$ 0.00	0.54 $\pm$ 0.01	0.52 $\pm$ 0.05	0.57	0.56	0.58
Isoleucine	1.88 $\pm$ 0.05	1.83 $\pm$ 0.04	1.82 $\pm$ 0.02	1.96	1.89	1.77
Leucine	3.09 $\pm$ 0.02	3.05 $\pm$ 0.08	3.07 $\pm$ 0.02	3.13	3.06	3.00
Tyrosine	1.45 $\pm$ 0.02	1.43 $\pm$ 0.02	1.43 $\pm$ 0.03	1.44	1.44	1.42
Phenylalanine	2.03 $\pm$ 0.02	2.02 $\pm$ 0.04	2.02 $\pm$ 0.03	2.04	2.08	2.00
Lysine	2.57 $\pm$ 0.01	2.55 $\pm$ 0.04	2.54 $\pm$ 0.02	2.64	2.62	2.53
Histidine	1.09 $\pm$ 0.00	1.08 $\pm$ 0.02	1.08 $\pm$ 0.01	1.07	1.06	1.04
Arginine	3.10 $\pm$ 0.01	3.05 $\pm$ 0.07	3.06 $\pm$ 0.02	3.12	3.13	3.00
Tryptophan	0.49 $\pm$ 0.02	0.44 $\pm$ 0.01	0.45 $\pm$ 0.03	0.54	0.46	0.48

**Table 65. Amino Acid Composition in Soybean Regimens from Trial 07 (Mean  $\pm$  Standard Deviation)**

<b>Analyte (% dm)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Amino Acids</b>						
Aspartic Acid	4.24 $\pm$ 0.09	4.34 $\pm$ 0.08	4.30 $\pm$ 0.12	4.26	4.26	4.09
Threonine	1.51 $\pm$ 0.03	1.56 $\pm$ 0.03	1.54 $\pm$ 0.01	1.53	1.48	1.49
Serine	1.88 $\pm$ 0.06	2.00 $\pm$ 0.03	1.97 $\pm$ 0.07	1.90	1.89	1.87
Glutamic Acid	6.44 $\pm$ 0.15	6.64 $\pm$ 0.16	6.56 $\pm$ 0.24	6.56	6.73	6.39
Proline	1.73 $\pm$ 0.05	1.80 $\pm$ 0.03	1.79 $\pm$ 0.04	1.73	1.78	1.73
Glycine	1.62 $\pm$ 0.03	1.66 $\pm$ 0.02	1.64 $\pm$ 0.03	1.61	1.61	1.57
Alanine	1.63 $\pm$ 0.03	1.66 $\pm$ 0.02	1.65 $\pm$ 0.02	1.63	1.64	1.57
Cystine	0.59 $\pm$ 0.02	0.60 $\pm$ 0.02	0.59 $\pm$ 0.03	0.62	0.54	0.58
Valine	1.83 $\pm$ 0.04	1.82 $\pm$ 0.03	1.81 $\pm$ 0.04	1.81	1.84	1.71
Methionine	0.53 $\pm$ 0.02	0.54 $\pm$ 0.01	0.53 $\pm$ 0.01	0.56	0.50	0.55
Isoleucine	1.77 $\pm$ 0.04	1.76 $\pm$ 0.03	1.75 $\pm$ 0.03	1.78	1.76	1.64
Leucine	2.89 $\pm$ 0.05	2.95 $\pm$ 0.05	2.93 $\pm$ 0.05	2.89	2.87	2.75
Tyrosine	1.35 $\pm$ 0.06	1.40 $\pm$ 0.02	1.39 $\pm$ 0.03	1.37	1.34	1.33
Phenylalanine	1.92 $\pm$ 0.02	1.96 $\pm$ 0.05	1.95 $\pm$ 0.02	1.93	1.91	1.85
Lysine	2.42 $\pm$ 0.04	2.46 $\pm$ 0.05	2.44 $\pm$ 0.03	2.44	2.46	2.38
Histidine	1.02 $\pm$ 0.02	1.03 $\pm$ 0.02	1.03 $\pm$ 0.02	0.98	0.99	0.97
Arginine	2.79 $\pm$ 0.08	2.93 $\pm$ 0.06	2.88 $\pm$ 0.08	2.85	2.93	2.79
Tryptophan	0.46 $\pm$ 0.01	0.42 $\pm$ 0.02	0.43 $\pm$ 0.03	0.50	0.39	0.43

**Table 66. Amino Acid Composition in Soybean Regimens from Trial 08 (Mean  $\pm$  Standard Deviation)**

<b>Analyte (% dm)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Amino Acids</b>						
Aspartic Acid	4.53 $\pm$ 0.18	4.33 $\pm$ 0.07	4.38 $\pm$ 0.21	4.29	4.29	4.37
Threonine	1.58 $\pm$ 0.08	1.53 $\pm$ 0.05	1.52 $\pm$ 0.05	1.53	1.51	1.52
Serine	2.05 $\pm$ 0.10	1.96 $\pm$ 0.03	1.99 $\pm$ 0.06	1.94	2.00	1.96
Glutamic Acid	6.95 $\pm$ 0.31	6.66 $\pm$ 0.09	6.77 $\pm$ 0.36	6.58	6.80	6.92
Proline	1.87 $\pm$ 0.10	1.77 $\pm$ 0.05	1.85 $\pm$ 0.11	1.83	1.76	1.84
Glycine	1.71 $\pm$ 0.06	1.65 $\pm$ 0.03	1.68 $\pm$ 0.07	1.63	1.60	1.66
Alanine	1.70 $\pm$ 0.05	1.66 $\pm$ 0.03	1.68 $\pm$ 0.07	1.65	1.62	1.66
Cystine	0.61 $\pm$ 0.02	0.59 $\pm$ 0.01	0.59 $\pm$ 0.01	0.58	0.58	0.58
Valine	1.91 $\pm$ 0.04	1.86 $\pm$ 0.05	1.88 $\pm$ 0.10	1.82	1.79	1.87
Methionine	0.55 $\pm$ 0.03	0.55 $\pm$ 0.00	0.54 $\pm$ 0.02	0.54	0.56	0.55
Isoleucine	1.84 $\pm$ 0.05	1.79 $\pm$ 0.06	1.80 $\pm$ 0.08	1.76	1.71	1.79
Leucine	3.07 $\pm$ 0.12	2.96 $\pm$ 0.07	3.00 $\pm$ 0.14	2.91	2.88	2.95
Tyrosine	1.45 $\pm$ 0.04	1.38 $\pm$ 0.04	1.40 $\pm$ 0.04	1.39	1.38	1.40
Phenylalanine	2.02 $\pm$ 0.11	1.95 $\pm$ 0.05	1.95 $\pm$ 0.10	1.88	1.90	1.93
Lysine	2.52 $\pm$ 0.10	2.45 $\pm$ 0.07	2.46 $\pm$ 0.12	2.45	2.44	2.46
Histidine	1.06 $\pm$ 0.04	1.03 $\pm$ 0.03	1.04 $\pm$ 0.05	1.00	1.00	1.02
Arginine	3.02 $\pm$ 0.17	2.91 $\pm$ 0.06	2.97 $\pm$ 0.20	2.85	2.92	2.94
Tryptophan	0.44 $\pm$ 0.04	0.45 $\pm$ 0.02	0.45 $\pm$ 0.04	0.47	0.43	0.44



**Table 67. Amino Acid Composition in Soybean Regimens from Trial 09 (Mean  $\pm$  Standard Deviation)**

<b>Analyte (% dm)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Amino Acids</b>						
Aspartic Acid	4.42 $\pm$ 0.12	4.39 $\pm$ 0.08	4.34 $\pm$ 0.19	4.52	4.26	4.45
Threonine	1.55 $\pm$ 0.02	1.56 $\pm$ 0.04	1.51 $\pm$ 0.06	1.55	1.47	1.56
Serine	2.00 $\pm$ 0.08	1.97 $\pm$ 0.10	1.98 $\pm$ 0.08	1.92	1.90	2.00
Glutamic Acid	6.81 $\pm$ 0.20	6.77 $\pm$ 0.14	6.70 $\pm$ 0.32	7.02	6.78	7.07
Proline	1.80 $\pm$ 0.08	1.83 $\pm$ 0.02	1.82 $\pm$ 0.08	1.91	1.80	1.93
Glycine	1.70 $\pm$ 0.04	1.70 $\pm$ 0.03	1.69 $\pm$ 0.05	1.72	1.63	1.69
Alanine	1.70 $\pm$ 0.04	1.69 $\pm$ 0.01	1.67 $\pm$ 0.05	1.74	1.63	1.68
Cystine	0.60 $\pm$ 0.02	0.58 $\pm$ 0.02	0.58 $\pm$ 0.02	0.59	0.58	0.55
Valine	1.89 $\pm$ 0.07	1.89 $\pm$ 0.04	1.87 $\pm$ 0.08	1.99	1.82	1.82
Methionine	0.55 $\pm$ 0.02	0.54 $\pm$ 0.01	0.54 $\pm$ 0.02	0.55	0.55	0.54
Isoleucine	1.82 $\pm$ 0.07	1.82 $\pm$ 0.05	1.79 $\pm$ 0.07	1.92	1.76	1.76
Leucine	3.00 $\pm$ 0.08	2.99 $\pm$ 0.05	2.94 $\pm$ 0.11	3.05	2.86	2.97
Tyrosine	1.42 $\pm$ 0.05	1.41 $\pm$ 0.05	1.41 $\pm$ 0.05	1.37	1.38	1.41
Phenylalanine	1.98 $\pm$ 0.08	1.99 $\pm$ 0.05	1.94 $\pm$ 0.08	2.00	1.88	1.96
Lysine	2.50 $\pm$ 0.05	2.49 $\pm$ 0.04	2.47 $\pm$ 0.08	2.55	2.44	2.48
Histidine	1.05 $\pm$ 0.03	1.05 $\pm$ 0.02	1.03 $\pm$ 0.03	1.03	0.99	1.02
Arginine	2.96 $\pm$ 0.09	2.97 $\pm$ 0.08	2.93 $\pm$ 0.15	2.98	2.93	2.99
Tryptophan	0.45 $\pm$ 0.04	0.45 $\pm$ 0.04	0.44 $\pm$ 0.02	0.50	0.43	0.51

**Table 68. Amino Acid Composition in Soybean Regimens from Trial 10 (Mean  $\pm$  Standard Deviation)**

<b>Analyte (% dm)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Amino Acids</b>						
Aspartic Acid	4.35 $\pm$ 0.06	4.26 $\pm$ 0.04	4.36 $\pm$ 0.19	4.39	4.06	4.52
Threonine	1.52 $\pm$ 0.03	1.49 $\pm$ 0.01	1.52 $\pm$ 0.07	1.53	1.46	1.54
Serine	1.95 $\pm$ 0.05	1.92 $\pm$ 0.03	2.01 $\pm$ 0.07	1.98	1.84	1.92
Glutamic Acid	6.65 $\pm$ 0.12	6.54 $\pm$ 0.06	6.71 $\pm$ 0.33	6.76	6.32	7.14
Proline	1.76 $\pm$ 0.05	1.77 $\pm$ 0.07	1.75 $\pm$ 0.09	1.80	1.74	1.90
Glycine	1.68 $\pm$ 0.02	1.66 $\pm$ 0.02	1.69 $\pm$ 0.05	1.66	1.53	1.74
Alanine	1.67 $\pm$ 0.03	1.65 $\pm$ 0.02	1.68 $\pm$ 0.06	1.68	1.55	1.74
Cystine	0.57 $\pm$ 0.02	0.57 $\pm$ 0.01	0.60 $\pm$ 0.02	0.61	0.58	0.56
Valine	1.86 $\pm$ 0.08	1.83 $\pm$ 0.05	1.85 $\pm$ 0.09	1.87	1.66	1.98
Methionine	0.52 $\pm$ 0.02	0.53 $\pm$ 0.01	0.55 $\pm$ 0.03	0.56	0.54	0.56
Isoleucine	1.79 $\pm$ 0.07	1.75 $\pm$ 0.05	1.77 $\pm$ 0.09	1.82	1.62	1.88
Leucine	2.95 $\pm$ 0.06	2.90 $\pm$ 0.03	2.96 $\pm$ 0.13	2.97	2.71	3.03
Tyrosine	1.39 $\pm$ 0.03	1.38 $\pm$ 0.02	1.41 $\pm$ 0.06	1.41	1.32	1.38
Phenylalanine	1.94 $\pm$ 0.04	1.90 $\pm$ 0.02	1.93 $\pm$ 0.08	1.93	1.84	1.99
Lysine	2.47 $\pm$ 0.03	2.43 $\pm$ 0.04	2.47 $\pm$ 0.09	2.50	2.34	2.57
Histidine	1.04 $\pm$ 0.02	1.02 $\pm$ 0.02	1.04 $\pm$ 0.04	1.01	0.93	1.05
Arginine	2.89 $\pm$ 0.04	2.87 $\pm$ 0.05	2.93 $\pm$ 0.16	2.87	2.69	3.03
Tryptophan	0.44 $\pm$ 0.04	0.45 $\pm$ 0.01	0.41 $\pm$ 0.02	0.44	0.47	0.48

**Table 69. Fatty Acid Composition in Soybean Regimens from Trial 01 (Mean  $\pm$  Standard Deviation)**

<b>Analyte (% Relative)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Fatty Acids <sup>1</sup></b>						
16:0 Palmitic	9.97 $\pm$ 0.05	9.31 $\pm$ 0.10	9.36 $\pm$ 0.04	10.2	9.82	10.9
17:0 Heptadecanoic	<LOQ	<LOQ	<LOQ	0.112	0.118	< LOQ
18:0 Stearic	4.13 $\pm$ 0.07	4.38 $\pm$ 0.05	4.47 $\pm$ 0.04	3.49	4.23	4.01
18:1 Oleic	21.5 $\pm$ 0.1	24.0 $\pm$ 0.2	22.9 $\pm$ 0.2	22.4	21.9	22.3
18:2 Linoleic	55.2 $\pm$ 0.2	53.6 $\pm$ 0.2	54.2 $\pm$ 0.1	54.2	53.6	52.9
18:3 Linolenic	8.44 $\pm$ 0.10	7.96 $\pm$ 0.23	8.22 $\pm$ 0.09	8.81	9.51	9.12
20:0 Arachidic	0.291 $\pm$ 0.014	0.306 $\pm$ 0.011	0.318 $\pm$ 0.006	0.252	0.303	0.281
20:1 Eicosenoic	0.148 $\pm$ 0.001	0.153 $\pm$ 0.004	0.152 $\pm$ 0.001	0.145	0.145	0.155
22:0 Behenic	0.311 $\pm$ 0.008	0.326 $\pm$ 0.004	0.334 $\pm$ 0.009	0.266	0.308	0.329
24:0 Lignoceric	<LOQ	<LOQ	<LOQ to 0.144	0.143	< LOQ	< LOQ

**Table 70. Fatty Acid Composition in Soybean Regimens from Trial 02 (Mean  $\pm$  Standard Deviation)**

<b>Analyte (% Relative)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Fatty Acids <sup>1</sup></b>						
16:0 Palmitic	10.40 $\pm$ 0.46	9.16 $\pm$ 0.08	9.57 $\pm$ 0.73	10.4	9.90	11.2
17:0 Heptadecanoic	<LOQ	<LOQ	<LOQ to 0.106	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.20 $\pm$ 0.04	4.52 $\pm$ 0.03	4.30 $\pm$ 0.44	3.67	4.19	4.04
18:1 Oleic	22.4 $\pm$ 2.5	25.7 $\pm$ 0.5	23.5 $\pm$ 1.2	21.7	21.8	21.3
18:2 Linoleic	53.9 $\pm$ 2.1	51.4 $\pm$ 0.4	53.3 $\pm$ 1.3	54.8	53.6	52.7
18:3 Linolenic	8.32 $\pm$ 0.83	8.40 $\pm$ 0.06	8.41 $\pm$ 0.60	8.75	9.80	10.2
20:0 Arachidic	0.317 $\pm$ 0.007	0.329 $\pm$ 0.004	0.309 $\pm$ 0.031	0.257	0.303	0.304
20:1 Eicosenoic	0.161 $\pm$ 0.029	0.154 $\pm$ 0.002	0.153 $\pm$ 0.005	0.151	0.152	< LOQ
22:0 Behenic	0.326 $\pm$ 0.014	0.345 $\pm$ 0.008	0.316 $\pm$ 0.054	0.258	0.312	0.323
24:0 Lignoceric	<LOQ	<LOQ	<LOQ to 0.128	< LOQ	< LOQ	< LOQ

**Table 71. Fatty Acid Composition in Soybean Regimens from Trial 03 (Mean  $\pm$  Standard Deviation)**

<b>Analyte (% Relative)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Fatty Acids <sup>1</sup></b>						
16:0 Palmitic	9.94 $\pm$ 0.06	9.21 $\pm$ 0.12	9.21 $\pm$ 0.04	10.3	9.86	11.1
17:0 Heptadecanoic	<LOQ	<LOQ	<LOQ	0.116	0.115	< LOQ
18:0 Stearic	4.17 $\pm$ 0.03	4.52 $\pm$ 0.05	4.50 $\pm$ 0.03	3.87	4.38	4.08
18:1 Oleic	21.8 $\pm$ 0.1	24.9 $\pm$ 0.0	24.3 $\pm$ 0.3	21.7	21.5	21.3
18:2 Linoleic	54.2 $\pm$ 0.2	52.0 $\pm$ 0.1	52.4 $\pm$ 0.3	54.6	53.7	52.5
18:3 Linolenic	9.07 $\pm$ 0.08	8.49 $\pm$ 0.23	8.69 $\pm$ 0.10	8.65	9.62	10.3
20:0 Arachidic	0.300 $\pm$ 0.010	0.323 $\pm$ 0.002	0.323 $\pm$ 0.002	0.276	0.312	0.310
20:1 Eicosenoic	0.152 $\pm$ 0.002	0.154 $\pm$ 0.003	0.156 $\pm$ 0.002	0.154	0.156	0.157
22:0 Behenic	0.318 $\pm$ 0.001	0.337 $\pm$ 0.005	0.332 $\pm$ 0.003	0.273	0.315	0.329
24:0 Lignoceric	<LOQ	<LOQ to 0.135	<LOQ to 0.135	< LOQ	< LOQ	< LOQ

**Table 72. Fatty Acid Composition in Soybean Regimens from Trial 04 (Mean  $\pm$  Standard Deviation)**

<b>Analyte (% Relative)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Fatty Acids <sup>1</sup></b>						
16:0 Palmitic	9.90 $\pm$ 0.13	9.24 $\pm$ 0.08	9.36 $\pm$ 0.09	10.4	9.80	11.0
17:0 Heptadecanoic	<LOQ	<LOQ	<LOQ	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.42 $\pm$ 0.07	4.67 $\pm$ 0.12	4.71 $\pm$ 0.06	3.81	4.52	4.45
18:1 Oleic	21.4 $\pm$ 0.3	24.1 $\pm$ 0.5	23.6 $\pm$ 0.2	21.8	22.7	23.1
18:2 Linoleic	54.9 $\pm$ 0.2	52.9 $\pm$ 0.5	53.3 $\pm$ 0.2	54.9	53.1	51.5
18:3 Linolenic	8.57 $\pm$ 0.04	8.23 $\pm$ 0.09	8.18 $\pm$ 0.02	8.42	9.03	9.11
20:0 Arachidic	0.315 $\pm$ 0.008	0.328 $\pm$ 0.011	0.333 $\pm$ 0.002	0.265	0.317	0.337
20:1 Eicosenoic	0.154 $\pm$ 0.003	0.161 $\pm$ 0.002	0.166 $\pm$ 0.004	0.153	0.154	0.168
22:0 Behenic	0.312 $\pm$ 0.002	0.324 $\pm$ 0.007	0.326 $\pm$ 0.008	0.260	0.306	0.337
24:0 Lignoceric	<LOQ to 0.112	<LOQ to 0.122	<LOQ to 0.121	< LOQ	0.133	< LOQ

**Table 73. Fatty Acid Composition in Soybean Regimens from Trial 05 (Mean  $\pm$  Standard Deviation)**

<b>Analyte (% Relative)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Fatty Acids <sup>1</sup></b>						
16:0 Palmitic	9.92 $\pm$ 0.07	9.30 $\pm$ 0.07	9.31 $\pm$ 0.08	10.5	9.96	11.1
17:0 Heptadecanoic	<LOQ	<LOQ	<LOQ	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.34 $\pm$ 0.05	4.61 $\pm$ 0.11	4.55 $\pm$ 0.09	3.80	4.57	4.17
18:1 Oleic	22.0 $\pm$ 0.2	24.5 $\pm$ 0.7	24.3 $\pm$ 0.1	21.9	22.9	22.7
18:2 Linoleic	55.0 $\pm$ 0.1	53.0 $\pm$ 0.5	53.0 $\pm$ 0.1	54.9	53.2	52.4
18:3 Linolenic	7.91 $\pm$ 0.06	7.75 $\pm$ 0.17	7.90 $\pm$ 0.08	8.22	8.54	8.81
20:0 Arachidic	0.309 $\pm$ 0.013	0.329 $\pm$ 0.011	0.320 $\pm$ 0.005	0.274	0.326	0.324
20:1 Eicosenoic	0.162 $\pm$ 0.002	0.162 $\pm$ 0.002	0.161 $\pm$ 0.003	0.164	0.156	0.171
22:0 Behenic	0.319 $\pm$ 0.003	0.332 $\pm$ 0.010	0.321 $\pm$ 0.003	0.273	0.326	0.337
24:0 Lignoceric	<LOQ to 0.138	<LOQ	<LOQ to 0.152	< LOQ	< LOQ	< LOQ

**Table 74. Fatty Acid Composition in Soybean Regimens from Trial 06 (Mean  $\pm$  Standard Deviation)**

<b>Analyte (% Relative)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Fatty Acids <sup>1</sup></b>						
16:0 Palmitic	10.10 $\pm$ 0.10	9.55 $\pm$ 0.03	9.44 $\pm$ 0.09	10.7	10.1	11.3
17:0 Heptadecanoic	<LOQ to 0.120	<LOQ	<LOQ	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.23 $\pm$ 0.01	4.41 $\pm$ 0.05	4.38 $\pm$ 0.04	3.62	4.30	3.96
18:1 Oleic	20.7 $\pm$ 0.5	23.3 $\pm$ 0.2	23.9 $\pm$ 0.6	21.1	21.2	21.9
18:2 Linoleic	55.2 $\pm$ 0.5	53.4 $\pm$ 0.2	53.0 $\pm$ 0.5	54.6	53.8	52.5
18:3 Linolenic	8.80 $\pm$ 0.11	8.53 $\pm$ 0.10	8.50 $\pm$ 0.07	9.34	9.74	9.58
20:0 Arachidic	0.313 $\pm$ 0.003	0.320 $\pm$ 0.004	0.319 $\pm$ 0.003	0.265	0.298	0.300
20:1 Eicosenoic	0.157 $\pm$ 0.002	0.162 $\pm$ 0.002	0.163 $\pm$ 0.002	0.145	0.150	0.162
22:0 Behenic	0.323 $\pm$ 0.007	0.339 $\pm$ 0.001	0.332 $\pm$ 0.006	0.271	0.322	0.321
24:0 Lignoceric	<LOQ to 0.133	<LOQ	<LOQ	< LOQ	0.123	< LOQ



**Table 75. Fatty Acid Composition in Soybean Regimens from Trial 07 (Mean  $\pm$  Standard Deviation)**

<b>Analyte (% Relative)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Fatty Acids <sup>1</sup></b>						
16:0 Palmitic	10.20 $\pm$ 0.10	9.56 $\pm$ 0.02	9.54 $\pm$ 0.03	10.4	10.0	11.4
17:0 Heptadecanoic	<LOQ to 0.110	<LOQ to 0.109	<LOQ to 0.111	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.30 $\pm$ 0.03	4.50 $\pm$ 0.07	4.41 $\pm$ 0.08	3.99	4.66	4.25
18:1 Oleic	21.8 $\pm$ 0.3	24.1 $\pm$ 0.5	24.0 $\pm$ 0.5	23.2	24.1	23.0
18:2 Linoleic	54.7 $\pm$ 0.3	53.1 $\pm$ 0.6	53.4 $\pm$ 0.5	53.7	51.8	52.0
18:3 Linolenic	8.12 $\pm$ 0.09	7.73 $\pm$ 0.02	7.75 $\pm$ 0.09	7.85	8.39	8.55
20:0 Arachidic	0.318 $\pm$ 0.003	0.323 $\pm$ 0.007	0.317 $\pm$ 0.006	0.267	0.344	0.326
20:1 Eicosenoic	0.166 $\pm$ 0.003	0.170 $\pm$ 0.002	0.170 $\pm$ 0.001	0.167	0.169	0.176
22:0 Behenic	0.324 $\pm$ 0.005	0.324 $\pm$ 0.002	0.317 $\pm$ 0.008	0.283	0.332	0.338
24:0 Lignoceric	<LOQ to 0.114	0.134 $\pm$ 0.006	0.133 $\pm$ 0.004	0.140	0.126	< LOQ

**Table 76. Fatty Acid Composition in Soybean Regimens from Trial 08 (Mean  $\pm$  Standard Deviation)**

<b>Analyte (% Relative)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Fatty Acids <sup>1</sup></b>						
16:0 Palmitic	10.27 $\pm$ 0.06	9.51 $\pm$ 0.03	9.49 $\pm$ 0.05	10.5	9.89	11.0
17:0 Heptadecanoic	<LOQ to 0.113	<LOQ	<LOQ	0.112	0.109	< LOQ
18:0 Stearic	4.17 $\pm$ 0.04	4.26 $\pm$ 0.04	4.36 $\pm$ 0.10	3.57	4.22	4.10
18:1 Oleic	22.4 $\pm$ 0.3	24.5 $\pm$ 0.3	24.4 $\pm$ 0.4	21.6	22.4	22.9
18:2 Linoleic	54.6 $\pm$ 0.1	53.4 $\pm$ 0.2	53.5 $\pm$ 0.3	55.4	54.1	52.9
18:3 Linolenic	7.74 $\pm$ 0.11	7.46 $\pm$ 0.08	7.44 $\pm$ 0.11	8.11	8.43	8.34
20:0 Arachidic	0.307 $\pm$ 0.003	0.303 $\pm$ 0.002	0.312 $\pm$ 0.006	0.252	0.303	0.305
20:1 Eicosenoic	0.167 $\pm$ 0.002	0.171 $\pm$ 0.005	0.175 $\pm$ 0.003	0.161	0.162	0.165
22:0 Behenic	0.309 $\pm$ 0.002	0.312 $\pm$ 0.005	0.318 $\pm$ 0.005	0.254	0.298	0.309
24:0 Lignoceric	<LOQ	0.126 $\pm$ 0.010	<LOQ $\pm$ 0.117	< LOQ	0.137	< LOQ

**Table 77. Fatty Acid Composition in Soybean Regimens from Trial 09 (Mean  $\pm$  Standard Deviation)**

<b>Analyte (% Relative)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Fatty Acids <sup>1</sup></b>						
16:0 Palmitic	9.87 $\pm$ 0.04	9.11 $\pm$ 0.10	9.19 $\pm$ 0.05	10.1	9.86	11.0
17:0 Heptadecanoic	<LOQ	<LOQ	<LOQ	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.66 $\pm$ 0.04	4.93 $\pm$ 0.11	4.98 $\pm$ 0.09	4.26	4.81	4.57
18:1 Oleic	23.9 $\pm$ 0.1	26.8 $\pm$ 0.4	26.1 $\pm$ 0.2	24.1	23.6	23.5
18:2 Linoleic	52.9 $\pm$ 0.1	50.8 $\pm$ 0.2	51.4 $\pm$ 0.2	53.0	52.5	51.7
18:3 Linolenic	7.65 $\pm$ 0.09	7.27 $\pm$ 0.04	7.27 $\pm$ 0.04	7.59	8.42	8.38
20:0 Arachidic	0.345 $\pm$ 0.014	0.363 $\pm$ 0.008	0.369 $\pm$ 0.011	0.307	0.353	0.349
20:1 Eicosenoic	0.176 $\pm$ 0.005	0.183 $\pm$ 0.006	0.190 $\pm$ 0.005	0.177	0.167	0.174
22:0 Behenic	0.333 $\pm$ 0.006	0.345 $\pm$ 0.006	0.346 $\pm$ 0.004	0.286	0.332	0.352
24:0 Lignoceric	0.148 $\pm$ 0.012	0.160 $\pm$ 0.010	0.165 $\pm$ 0.006	0.145	< LOQ	< LOQ

**Table 78. Fatty Acid Composition in Soybean Regimens from Trial 10 (Mean  $\pm$  Standard Deviation)**

<b>Analyte (% Relative)</b>	<b>A Jack</b>	<b>B FG72 Unsprayed</b>	<b>C FG72 Sprayed</b>	<b>D 2686-6</b>	<b>E 2788</b>	<b>F 3000-0</b>
<b>Fatty Acids <sup>1</sup></b>						
16:0 Palmitic	10.03 $\pm$ 0.06	9.44 $\pm$ 0.13	9.37 $\pm$ 0.03	10.4	9.78	11.0
17:0 Heptadecanoic	<LOQ	<LOQ	<LOQ	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.14 $\pm$ 0.02	4.38 $\pm$ 0.07	4.41 $\pm$ 0.05	3.80	4.41	4.10
18:1 Oleic	21.8 $\pm$ 0.2	24.6 $\pm$ 0.2	24.2 $\pm$ 0.5	22.6	23.2	23.3
18:2 Linoleic	55.0 $\pm$ 0.2	53.0 $\pm$ 0.2	53.3 $\pm$ 0.4	54.7	53.5	52.2
18:3 Linolenic	8.12 $\pm$ 0.05	7.60 $\pm$ 0.07	7.70 $\pm$ 0.08	7.67	8.25	8.51
20:0 Arachidic	0.307 $\pm$ 0.001	0.318 $\pm$ 0.006	0.320 $\pm$ 0.003	0.269	0.324	0.319
20:1 Eicosenoic	0.166 $\pm$ 0.003	0.176 $\pm$ 0.003	0.177 $\pm$ 0.005	0.168	0.173	0.178
22:0 Behenic	0.316 $\pm$ 0.002	0.320 $\pm$ 0.003	0.322 $\pm$ 0.004	0.271	0.308	0.332
24:0 Lignoceric	0.143 $\pm$ 0.012	0.141 $\pm$ 0.010	0.155 $\pm$ 0.012	0.135	0.119	< LOQ

## **5.0 CONCLUSIONS**

Data showing the composition of soybean and the equivalent non-transgenic soybean are presented in this report. The data are presented on an adjusted for dry matter basis. Mean and standard deviation values for the reported parameters across each regimen in the ten field locations (n = 30 for Regimens A, B, and C; n = 10 for Regimens D, E, and F) are summarized in data [Tables 2-8](#). Mean and Standard deviation values for the reported parameters are also reported for each trial (n = 3 for Regimens A, B, and C; n = 1 for Regimens D, E, and F) in data [Tables 9-78](#).

## **6.0 ARCHIVING**

The protocol and final report, as well as originals or copies of raw data, computer generated listings of raw data, and supporting documentation are archived under study number DQ08B009 in the archives of Bayer CropScience, BioAnalytics, 2 T.W. Alexander Drive, Research Triangle Park, NC 27709.

## **7.0 REFERENCES**

1. Kowite, William J. 2009. Production of Raw Agricultural Commodities (Grain) of Transgenic Event FG72 Soybeans from Multiple Field Trials, USA, 2008. Study Identification Number HT08SOY002.

**Appendix 1**

Analytical Report




# Sub-Report

Study Title	Composition of Seed from FG72 Soybean and its Non-transgenic Counterpart. USA. 2008.
Sponsor	Bayer CropScience Woodland, California
Study Director	Sandra J.W. Mackie Bayer CropScience
Compositional Analysis Testing Facility	Covance Laboratories Inc. 3301 Kinsman Blvd. Madison, WI 53704
Covance Principal Investigator	Kathleen D. Miller
Bayer CropScience Study Number	DQ08B009
Covance Study Number	8201-514
Version	Final
Sub-Report Issued	20 May 2009
Page Number	1 of 319

### QUALITY ASSURANCE STATEMENT

This report has been reviewed by the Quality Assurance Unit of Covance Laboratories Inc. and accurately reflects the raw data. The following study specific inspections were conducted and findings reported to the principal investigator (PI), study director (SD), and associated management.

Inspection Dates		Phase	Date Reported to PI and PI Management	Date Reported to SD and SD Management
From	To			
13 Feb 2009	05 Mar 2009	Analytical Chemistry	05 Mar 2009	19 May 2009
14 Apr 2009	21 Apr 2009	Draft Report and Data Review	21 Apr 2009	19 May 2009
11 May 2009	11 May 2009	Revised Draft Report Review	11 May 2009	19 May 2009

  
\_\_\_\_\_  
Representative  
Quality Assurance Unit

  
\_\_\_\_\_  
Date



### **COMPLIANCE STATEMENT**

This portion of the study was conducted in accordance with the Environmental Protection Agency (EPA) Good Laboratory Practice Standards, section 40 CFR 160, in compliance with all requirements with the following exceptions:

1. Reference standards (if applicable) were not listed in the protocol or characterized according to GLP standards and reserve samples from each batch of reference standards were not retained.
2. Stability of the compositional analytes in the test system was not determined.
3. The soybean seeds analyzed in this study were not produced under GLP standards. However, general conformance to many elements of EPA FIFRA GLP Standards were observed, with suitable SOPs followed where applicable.

These exceptions had no effect on the integrity or quality of the study.

Kathleen D. Miller

Kathleen D. Miller  
Principal Investigator  
Food and Drug Analysis  
Covance Laboratories Inc.

20 May 09

Date

**CERTIFICATION OF AUTHENTICITY**

This report is an accurate and authentic representation of the conditions and results of the analytical phase of this study.

Kathleen D. Miller

Kathleen D. Miller  
Principal Investigator  
Food and Drug Analysis  
Covance Laboratories Inc.

20 May 09

Date

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**STUDY IDENTIFICATION**

Sponsor:	Bayer CropScience Woodland, California
Study Director:	Sandra J.W. Mackie Bayer CropScience 2 T.W. Alexander Drive Research Triangle Park, NC 27709 Phone: 919.549.2460 e-mail: sandra.mackie@bayercropscience.com
Compositional Analysis Testing Facility:	Covance Laboratories Inc. 3301 Kinsman Blvd. Madison, WI 53704
Principal Investigator:	Kathleen D. Miller Covance Laboratories Inc. Phone: 608.310.8201 Fax: 608.310.8200 e-mail: kathy.miller@covance.com
<b>Study Timetable</b>	
Study Initiation Date:	19 January 2009
Experimental Completion Date:	08 April 2009
Study Completion Date:	20 May 2009

**COVANCE KEY PERSONNEL**

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Christopher Zais  
Supervisor

Robert C. Grahn  
Supervisor

**Quality Assurance**

Timothy H. Valley  
Manager

## **INTRODUCTION**

The objective of this portion of the study was to conduct composition analyses of seed samples from FG72 soybean and its non-transgenic and reference counterparts. Composition data are required for the soybean raw agricultural commodity (RAC) of seed. This study was designed to provide the composition data that will be needed for the required nutritional impact analysis.

## **TEST, CONTROL, AND REFERENCE SYSTEMS**

### **Identification**

#### **Test System**

The test system was seed from soybean plants of the transgenic event FG72.

#### **Control System**

The control system for this study was seed from the non-transgenic counterpart to the FG72 soybean.

#### **Reference Systems**

The reference systems for this study were seeds from non-transgenic non-tolerant reference varieties.

Appropriate reference standards were used in each assay for the analytical procedures and equipment calibrations. See Appendix A for reference standard identification (if applicable).

### **Characterization of Test, Control and Reference (T/C/R) Systems**

Information on the characterization that defined the seed samples was the responsibility of the Sponsor. Storage stability was not determined in this portion of the study, however, the samples were stored in a freezer set to maintain  $-20\pm 10^{\circ}\text{C}$  to minimize degradation.

### **Retain Samples**

Collection of the retain samples of soybean seed was the responsibility of the Sponsor.

### **Storage Retention**

The samples were stored in a freezer set to maintain  $-20\pm 10^{\circ}\text{C}$ . Any remaining samples following the analyses will be retained by Covance Laboratories Inc. until notified of final disposition by the Study Director upon completion of the final report. Any remaining prepared dilutions or extractions of the test system (if applicable) will be discarded at Covance Laboratories Inc.

## **SAFETY PRECAUTIONS**

Safety precautions were taken as outlined in the Environmental, Health, and Safety section of the Covance Policies and Procedures Manual.

## **SAMPLE RECEIPT AND HANDLING**

The initial 120 samples were received from the Sponsor as whole soybean seed frozen on dry ice on 14 and 15 January 2009. As specified in Protocol Amendment 1, two additional samples were shipped later to replace two samples that were incorrectly labeled. These additional samples were received ambient on 20 March 2009. Upon receipt, all samples were stored in a freezer set to maintain  $-20 \pm 10^{\circ}\text{C}$  pending sample preparation. Each sample was entered into the Covance Laboratory Information Management System (LIMS) with unique LIMS numbers. The Bayer CropScience sample identification was matched with the Covance LIMS information. The entire amount of each sample was ground to a fine powder in a blender with liquid nitrogen. The blender was cleaned between samples.

## **CONTROL OF BIAS**

The samples were analyzed in a non-systematic random order to minimize assay bias. Covance Laboratories determined the random analysis order. The two replacement samples were placed at the end of the analysis order.

## **PROCEDURES**

This study was conducted in accordance with Bayer CropScience Study Number DQ08B009. See Appendix A for a summary of the analytical methods referenced by the method mnemonic.

The following analyses were performed on the samples:

<b>Parameter</b>	<b>Covance Method Mnemonic<sup>1</sup></b>
Moisture	M100
Crude fat	FSOX
Crude protein	PGEN
Ash	ASHM
Acid Detergent Fiber	ADF
Neutral Detergent Fiber	NDFE
Carbohydrates <sup>2</sup>	CHO
Minerals: Ca, K, P, Mg, Na	ICPS
Minerals: Fe	ICPS
Tocopherols ( $\alpha$ , $\beta$ , $\gamma$ , $\delta$ )	TTLC



Vitamin A	BCLC
Vitamin B1	BIDE
Vitamin B2	B2FV
Vitamin K	VKLC
Folic Acid	FOAN
Phytic Acid	PHYT
Stachyose	SUGT
Raffinose	SUGT
Trypsin Inhibitors	TRIP
Lectins	LECT
Isoflavones <sup>3</sup>	ASOF
Total Amino Acids	TAA5
Total Fatty Acids	FALC

<sup>1</sup>Analytical methods were kept on file at Covance Laboratories Inc.; see Appendix A for method summaries.

<sup>2</sup>Carbohydrate (CHO) values were estimated by calculation.

<sup>3</sup>Isoflavones were reported as glucosides (daidzin, genistin, and glycitin) and free aglycones (daidzein, genistein, and glycitein).

Replication in this study was achieved from replicate field plots rather than from multiple analyses of the same sample. Therefore, each sample was analyzed one time for each parameter unless otherwise determined by Covance Laboratories Inc. methods and/or SOPs. Any additional analyses or re-analyses were documented and justified in the raw data, where applicable.

All samples received were analyzed, however as instructed by Protocol Amendment 1, the original samples sent as Bayer HT08SOY002-02-13 (Covance LIMS 90100060) and HT08SOY002-02-32 (Covance LIMS 90100140) were not reported and were replaced by two additional samples shipped by the Sponsor. These additional samples correspond to Covance LIMS 90300041 (HT08SOY002-02-13) and Covance LIMS 90300042 (HT08SOY002-02-32). Results and all raw data pertaining to the original samples will be retained with the study data.

### **DRY WEIGHT CALCULATION**

The fresh weight results were converted to dry weight results. The calculation used to convert the analytical fresh weight results to dry weight results was as follows:

$$\begin{aligned}
 100\% - \% \text{Moisture} &= \text{DW}\% \\
 \text{DW}\% \div 100 &= \text{DWD} \\
 \text{FWR} \div \text{DWD} &= \text{DWR}
 \end{aligned}$$

DW - Dry Weight  
DWD - Dry Weight Decimal  
FWR - Fresh Weight Result  
DWR - Dry Weight Result

## TOTAL AGLYCONE EQUIVALENTS CALCULATION

The isoflavone results (aglycones and glucosides) were used to calculate total aglycone equivalent results. The calculation used to do this is as follows:

$$a + b + c + (d \times 0.6106) + (e \times 0.6368) + (f \times 0.6250) = \text{Total Aglycone Equivalents}$$

Where:

<i>Aglycones</i>	<i>Glucosides</i>
<i>a</i> Daidzein	<i>d</i> Daidzin
<i>b</i> Glycitein	<i>e</i> Glycitin
<i>c</i> Genistein	<i>f</i> Genistin

## STATISTICAL METHODS

There was no statistical analysis of the tabulated data performed at Covance.

## MAJOR COMPUTER SYSTEMS

The major computer systems used on this study may have included, but were not limited to, the following systems:

- Balance Application (balance weight capture system)
- eNotes (official study communication)
- Waters Empower Chromatography Manager (data acquisition and result calculation system)
- Laboratory Information Management System (LIMS) [sample and assay tracking]
- The Metasys Facility Management System and/or the REES Environmental Monitoring System (monitor and document facility storage conditions [e.g., refrigerators, freezers, and controlled or non-controlled temperature rooms])
- ICP Winlab 32 (ICP spectrometry)
- MADCAP (dilution calculation system)
- WINGZ (calculation of standard curve)
- PCCalc (result calculation system)

## MAINTENANCE OF RAW DATA AND RECORDS

Upon completion of the study, all raw data and related records associated with this study shall be transferred to and retained in the Bayer CropScience archives along with the protocol, protocol amendments, and the final report. The archives are located at Bayer CropScience, Research Triangle Park, NC.

The performing laboratory will maintain a copy of the signed protocol and amendments, an exact copy of all data, and all documents (letters, memos, notes, etc.) pertaining to the study.

Original facility-related raw data and records will be archived at Covance Laboratories Inc. along with an authenticated copy of the completed analytical report. The supporting records to be retained at Covance Laboratories Inc. but not forwarded to the study director will include, but not limited to, the following items:

- Certificates of analysis of the reference standards (if applicable)
- Durable media records
- Employee training records
- Instrument calibration and maintenance records
- Storage temperature records
- Standard Operating Procedures
- Reference standard logbooks

## **RESULTS**

The results for the soybean seed analyses on a fresh-weight basis are presented in Tables 1 through 6. The results for the soybean seed analyses on a dry-weight basis are shown in Tables 7 through 12. Tables 13 through 18 present the fatty acids as a % of the total fatty acids in soybean seed based on dry weight results. All of the results were deemed acceptable. The limits of quantitation listed in Appendix A and in the tables are expressed on a fresh weight basis.

**SIGNATURE**

Kathleen D. Miller

Kathleen D. Miller  
Principal Investigator  
Food and Drug Analysis  
Covance Laboratories Inc.

20 May 09  
Date

**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-01-11	HT08SOY002-01-12	HT08SOY002-01-13
<b>Location</b>	Marcus	Marcus	Marcus
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1747A	1747B	1747C
<b>Covance LIMS Number</b>	90100072	90100094	90100028
<b>Proximate (%)</b>			
Moisture	9.86	10.1	10.3
Protein	34.1	34.4	34.4
Total Fat	17.0	16.8	17.0
Ash	4.17	3.94	4.55
Carbohydrates	34.9	34.8	33.8
Acid Detergent Fiber (%)	14.9	16.6	14.5
Neutral Detergent Fiber (%)	16.9	19.3	16.4
Phytic Acid (%)	0.924	0.952	1.09
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	12.5	11.8	13.2
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	163	163	169
Delta Tocopherol	76.1	77.3	77.0
Total Tocopherols	252	252	259
<b>Minerals (ppm)</b>			
Iron	71.8	67.1	70.8
<b>Minerals (%)</b>			
Calcium	0.239	0.226	0.235
Magnesium	0.205	0.202	0.211
Phosphorus	0.458	0.440	0.503
Potassium	1.64	1.58	1.64
Sodium	< 0.0100	< 0.0100	0.0176

**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-01-11	HT08SOY002-01-12	HT08SOY002-01-13
<b>Location</b>	Marcus	Marcus	Marcus
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1747A	1747B	1747C
<b>Covance LIMS Number</b>	90100072	90100094	90100028
<b>Amino Acids (%)</b>			
Aspartic Acid	3.97	3.87	3.93
Threonine	1.37	1.38	1.38
Serine	1.71	1.71	1.77
Glutamic Acid	6.10	5.93	6.06
Proline	1.67	1.64	1.65
Glycine	1.52	1.49	1.50
Alanine	1.53	1.49	1.51
Cystine	0.483	0.501	0.520
Valine	1.77	1.69	1.72
Methionine	0.471	0.478	0.478
Isoleucine	1.67	1.61	1.63
Leucine	2.72	2.66	2.68
Tyrosine	1.28	1.24	1.26
Phenylalanine	1.79	1.77	1.76
Lysine	2.23	2.19	2.20
Histidine	0.953	0.931	0.945
Arginine	2.68	2.63	2.65
Tryptophan	0.442	0.434	0.382
*Lectin (H.U./mg)	1.49	1.62	1.62
**Trypsin Inhibitor (TIU/mg)	31.5	27.1	22.5
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.316	0.282	0.320
Stachyose (%)	2.07	1.83	2.34
<b>Isoflavones (ppm)</b>			
Daidzein	13.9	11.5	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	11.3	11.3	10.1
Daidzin	1670	1610	1440
Glycitin	347	360	327
Genistin	2490	2440	2260
Total Aglycone Equivalents	2820	2760	2510

**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-01-11</b>	<b>HT08SOY002-01-12</b>	<b>HT08SOY002-01-13</b>
<b>Location</b>	Marcus	Marcus	Marcus
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1747A	1747B	1747C
<b>Covance LIMS Number</b>	90100072	90100094	90100028
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.63	1.59	1.63
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.662	0.659	0.684
18:1 Oleic	3.48	3.47	3.49
18:2 Linoleic	9.05	8.86	8.94
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.36	1.35	1.39
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0475	0.0445	0.0496
20:1 Eicosenoic	0.0242	0.0236	0.0240
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0491	0.0504	0.0516
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	< 0.0200	< 0.0200	< 0.0200
22:6 Docosaheptaenoic	< 0.0200	< 0.0200	< 0.0200
Folic Acid (ppm)	3.41	3.01	2.77
Vitamin B1/Thiamine HCl (ppm)	3.8	3.3	2.1
Vitamin B2/Riboflavin (ppm)	3.25	3.35	3.46
Vitamin K (ppm)	0.133	0.121	0.200
Vitamin A/Beta Carotene (ppm)	< 0.200	< 0.200	< 0.200

**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-02-11</b>	<b>HT08SOY002-02-12</b>	<b>HT08SOY002-02-13</b>
<b>Location</b>	Iowa Falls	Iowa Falls	Iowa Falls
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1748A	1748B	1748C
<b>Covance LIMS Number</b>	90100034	90100036	90300041
<b>Proximate (%)</b>			
Moisture	10.5	10.5	6.57
Protein	34.3	34.4	36.3
Total Fat	17.0	16.7	16.7
Ash	4.78	4.58	4.52
Carbohydrates	33.4	33.8	35.9
Acid Detergent Fiber (%)	12.7	12.8	18.1
Neutral Detergent Fiber (%)	15.0	15.2	20.4
Phytic Acid (%)	1.33	1.27	1.22
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	12.9	11.2	12.4
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	158	149	159
Delta Tocopherol	77.2	74.1	83.0
Total Tocopherols	248	234	254
<b>Minerals (ppm)</b>			
Iron	68.9	69.4	73.7
<b>Minerals (%)</b>			
Calcium	0.224	0.224	0.221
Magnesium	0.221	0.222	0.220
Phosphorus	0.589	0.563	0.546
Potassium	1.74	1.72	1.72
Sodium	< 0.0100	< 0.0100	< 0.0100



**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-02-11</b>	<b>HT08SOY002-02-12</b>	<b>HT08SOY002-02-13</b>
<b>Location</b>	Iowa Falls	Iowa Falls	Iowa Falls
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1748A	1748B	1748C
<b>Covance LIMS Number</b>	90100034	90100036	90300041
<b>Amino Acids (%)</b>			
Aspartic Acid	4.00	4.03	4.14
Threonine	1.41	1.42	1.49
Serine	1.84	1.84	1.87
Glutamic Acid	6.20	6.22	6.40
Proline	1.67	1.70	1.70
Glycine	1.54	1.54	1.56
Alanine	1.53	1.53	1.58
Cystine	0.541	0.520	0.586
Valine	1.71	1.71	1.74
Methionine	0.507	0.481	0.564
Isoleucine	1.63	1.63	1.68
Leucine	2.73	2.73	2.83
Tyrosine	1.24	1.30	1.33
Phenylalanine	1.77	1.79	1.89
Lysine	2.23	2.23	2.32
Histidine	0.946	0.955	0.990
Arginine	2.66	2.70	2.81
Tryptophan	0.376	0.381	0.414
*Lectin (H.U./mg)	1.53	1.69	1.46
**Trypsin Inhibitor (TIU/mg)	30.5	24.6	21.8
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.318	0.302	0.328
Stachyose (%)	2.35	2.31	2.64
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	< 10.0	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	10.9	< 10.0	< 10.0
Daidzin	1310	1450	752
Glycitin	275	313	278
Genistin	2040	2230	1390
Total Aglycone Equivalents	2260	2480	1500

**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-02-11</b>	<b>HT08SOY002-02-12</b>	<b>HT08SOY002-02-13</b>
<b>Location</b>	Iowa Falls	Iowa Falls	Iowa Falls
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1748A	1748B	1748C
<b>Covance LIMS Number</b>	90100034	90100036	90300041
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.77	1.61	1.66
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.677	0.681	0.677
18:1 Oleic	4.07	3.56	3.23
18:2 Linoleic	8.40	8.70	9.00
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.20	1.42	1.41
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0529	0.0504	0.0506
20:1 Eicosenoic	0.0315	0.0237	0.0229
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0553	0.0523	0.0502
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	< 0.0200	< 0.0200	< 0.0200
22:6 Docosaheptaenoic	< 0.0200	< 0.0200	< 0.0200
Folic Acid (ppm)	2.24	2.35	2.41
Vitamin B1/Thiamine HCl (ppm)	1.8	1.6	2.1
Vitamin B2/Riboflavin (ppm)	3.25	5.05	3.76
Vitamin K (ppm)	< 0.100	< 0.100	< 0.100
Vitamin A/Beta Carotene (ppm)	< 0.200	< 0.200	< 0.200

**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-03-11	HT08SOY002-03-12	HT08SOY002-03-13
<b>Location</b>	Glidden	Glidden	Glidden
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1749A	1749B	1749C
<b>Covance LIMS Number</b>	90100037	90100096	90100116
<b>Proximate (%)</b>			
Moisture	9.73	9.99	9.91
Protein	33.8	33.9	34.0
Total Fat	17.1	16.6	16.4
Ash	4.87	4.62	4.84
Carbohydrates	34.5	34.9	34.9
Acid Detergent Fiber (%)	15.6	17.5	17.6
Neutral Detergent Fiber (%)	17.3	19.8	17.4
Phytic Acid (%)	1.39	1.45	1.53
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	11.9	12.3	11.9
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	164	156	158
Delta Tocopherol	71.2	70.3	69.9
Total Tocopherols	247	239	240
<b>Minerals (ppm)</b>			
Iron	84.3	85.0	82.0
<b>Minerals (%)</b>			
Calcium	0.253	0.252	0.239
Magnesium	0.229	0.223	0.219
Phosphorus	0.638	0.625	0.624
Potassium	1.78	1.79	1.71
Sodium	< 0.0100	< 0.0100	0.0136

**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-03-11	HT08SOY002-03-12	HT08SOY002-03-13
<b>Location</b>	Glidden	Glidden	Glidden
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1749A	1749B	1749C
<b>Covance LIMS Number</b>	90100037	90100096	90100116
<b>Amino Acids (%)</b>			
Aspartic Acid	3.95	3.90	4.00
Threonine	1.38	1.41	1.40
Serine	1.80	1.78	1.81
Glutamic Acid	6.07	5.97	6.18
Proline	1.62	1.66	1.67
Glycine	1.51	1.49	1.52
Alanine	1.50	1.48	1.52
Cystine	0.536	0.508	0.530
Valine	1.68	1.63	1.70
Methionine	0.490	0.462	0.501
Isoleucine	1.62	1.56	1.62
Leucine	2.68	2.64	2.70
Tyrosine	1.28	1.26	1.21
Phenylalanine	1.74	1.77	1.75
Lysine	2.20	2.21	2.25
Histidine	0.927	0.927	0.954
Arginine	2.64	2.64	2.68
Tryptophan	0.378	0.443	0.433
*Lectin (H.U./mg)	1.33	0.826	1.85
**Trypsin Inhibitor (TIU/mg)	21.0	26.0	34.1
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.354	0.305	0.375
Stachyose (%)	2.46	1.88	2.39
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	10.9	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	11.8	12.5	11.7
Daidzin	1010	1020	1100
Glycitin	309	344	323
Genistin	1860	1880	1960
Total Aglycone Equivalents	1990	2040	2110

**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-03-11</b>	<b>HT08SOY002-03-12</b>	<b>HT08SOY002-03-13</b>
<b>Location</b>	Glidden	Glidden	Glidden
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1749A	1749B	1749C
<b>Covance LIMS Number</b>	90100037	90100096	90100116
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.58	1.58	1.56
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.660	0.670	0.652
18:1 Oleic	3.42	3.49	3.45
18:2 Linoleic	8.58	8.63	8.54
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.42	1.45	1.44
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0483	0.0461	0.0480
20:1 Eicosenoic	0.0238	0.0240	0.0243
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0501	0.0509	0.0502
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	< 0.0200	< 0.0200	< 0.0200
22:6 Docosaheptaenoic	< 0.0200	< 0.0200	< 0.0200
<b>Folic Acid (ppm)</b>			
Folic Acid (ppm)	2.31	2.47	2.62
<b>Vitamin B1/Thiamine HCl (ppm)</b>			
Vitamin B1/Thiamine HCl (ppm)	3.2	2.7	2.7
<b>Vitamin B2/Riboflavin (ppm)</b>			
Vitamin B2/Riboflavin (ppm)	4.60	3.94	3.11
<b>Vitamin K (ppm)</b>			
Vitamin K (ppm)	< 0.100	0.155	0.137
<b>Vitamin A/Beta Carotene (ppm)</b>			
Vitamin A/Beta Carotene (ppm)	< 0.200	< 0.200	< 0.200

**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-04-11</b>	<b>HT08SOY002-04-12</b>	<b>HT08SOY002-04-13</b>
<b>Location</b>	Perry	Perry	Perry
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1750A	1750B	1750C
<b>Covance LIMS Number</b>	90100065	90100126	90100061
<b>Proximate (%)</b>			
Moisture	9.64	9.40	9.87
Protein	33.3	33.4	33.6
Total Fat	17.2	17.4	18.4
Ash	4.91	4.80	4.75
Carbohydrates	35.0	35.0	33.4
Acid Detergent Fiber (%)	17.0	18.6	14.9
Neutral Detergent Fiber (%)	18.6	20.1	15.9
Phytic Acid (%)	1.36	1.43	1.38
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	16.6	15.0	15.7
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	186	182	179
Delta Tocopherol	67.8	69.2	69.7
Total Tocopherols	270	266	264
<b>Minerals (ppm)</b>			
Iron	88.3	81.6	86.2
<b>Minerals (%)</b>			
Calcium	0.266	0.258	0.258
Magnesium	0.221	0.218	0.219
Phosphorus	0.618	0.597	0.631
Potassium	1.82	1.79	1.83
Sodium	< 0.0100	< 0.0100	0.0137

**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-04-11	HT08SOY002-04-12	HT08SOY002-04-13
<b>Location</b>	Perry	Perry	Perry
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1750A	1750B	1750C
<b>Covance LIMS Number</b>	90100065	90100126	90100061
<b>Amino Acids (%)</b>			
Aspartic Acid	3.91	3.84	3.92
Threonine	1.42	1.34	1.39
Serine	1.78	1.77	1.73
Glutamic Acid	5.96	5.89	6.02
Proline	1.65	1.56	1.59
Glycine	1.50	1.48	1.50
Alanine	1.51	1.48	1.51
Cystine	0.529	0.479	0.497
Valine	1.66	1.65	1.72
Methionine	0.501	0.447	0.476
Isoleucine	1.59	1.57	1.65
Leucine	2.68	2.62	2.71
Tyrosine	1.27	1.25	1.28
Phenylalanine	1.79	1.72	1.81
Lysine	2.23	2.18	2.22
Histidine	0.944	0.920	0.944
Arginine	2.63	2.58	2.66
Tryptophan	0.413	0.378	0.419
*Lectin (H.U./mg)	1.61	0.823	3.87
**Trypsin Inhibitor (TIU/mg)	31.3	24.2	30.4
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.317	0.340	0.377
Stachyose (%)	1.92	2.47	2.41
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	< 10.0	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	11.2	11.3	11.5
Daidzin	975	951	1000
Glycitin	362	365	321
Genistin	1850	1720	1770
Total Aglycone Equivalents	1990	1900	1930

**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-04-11	HT08SOY002-04-12	HT08SOY002-04-13
<b>Location</b>	Perry	Perry	Perry
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1750A	1750B	1750C
<b>Covance LIMS Number</b>	90100065	90100126	90100061
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.66	1.67	1.74
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.737	0.750	0.774
18:1 Oleic	3.52	3.64	3.82
18:2 Linoleic	9.14	9.19	9.79
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.43	1.43	1.53
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0526	0.0541	0.0545
20:1 Eicosenoic	0.0251	0.0263	0.0273
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0516	0.0528	0.0555
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	< 0.0200	< 0.0200	0.0200
22:6 Docosahexaenoic	< 0.0200	< 0.0200	< 0.0200
<b>Folic Acid (ppm)</b>			
Folic Acid (ppm)	2.65	2.77	2.78
<b>Vitamin B1/Thiamine HCl (ppm)</b>			
Vitamin B1/Thiamine HCl (ppm)	3.9	3.4	3.0
<b>Vitamin B2/Riboflavin (ppm)</b>			
Vitamin B2/Riboflavin (ppm)	3.70	3.22	3.13
<b>Vitamin K (ppm)</b>			
Vitamin K (ppm)	0.146	0.200	0.109
<b>Vitamin A/Beta Carotene (ppm)</b>			
Vitamin A/Beta Carotene (ppm)	< 0.200	< 0.200	< 0.200



**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-05-11	HT08SOY002-05-12	HT08SOY002-05-13
<b>Location</b>	Adel	Adel	Adel
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1751A	1751B	1751C
<b>Covance LIMS Number</b>	90100035	90100077	90100097
<b>Proximate (%)</b>			
Moisture	9.33	8.80	9.37
Protein	33.8	34.6	34.1
Total Fat	18.0	18.0	17.8
Ash	4.81	5.11	4.69
Carbohydrates	34.1	33.5	34.0
Acid Detergent Fiber (%)	15.4	16.0	16.1
Neutral Detergent Fiber (%)	15.9	17.4	19.3
Phytic Acid (%)	1.29	1.46	1.43
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	13.1	15.3	13.9
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	171	183	175
Delta Tocopherol	62.9	59.2	60.2
Total Tocopherols	247	258	249
<b>Minerals (ppm)</b>			
Iron	72.3	74.9	80.9
<b>Minerals (%)</b>			
Calcium	0.266	0.272	0.253
Magnesium	0.236	0.234	0.218
Phosphorus	0.598	0.618	0.601
Potassium	1.80	1.87	1.87
Sodium	0.0183	< 0.0100	< 0.0100

**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-05-11</b>	<b>HT08SOY002-05-12</b>	<b>HT08SOY002-05-13</b>
<b>Location</b>	Adel	Adel	Adel
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1751A	1751B	1751C
<b>Covance LIMS Number</b>	90100035	90100077	90100097
<b>Amino Acids (%)</b>			
Aspartic Acid	3.93	4.02	3.84
Threonine	1.38	1.38	1.38
Serine	1.80	1.70	1.71
Glutamic Acid	6.09	6.16	5.90
Proline	1.66	1.68	1.58
Glycine	1.51	1.55	1.48
Alanine	1.51	1.55	1.49
Cystine	0.509	0.515	0.500
Valine	1.68	1.78	1.67
Methionine	0.472	0.492	0.469
Isoleucine	1.62	1.69	1.60
Leucine	2.68	2.72	2.62
Tyrosine	1.25	1.27	1.25
Phenylalanine	1.76	1.78	1.76
Lysine	2.20	2.26	2.19
Histidine	0.922	0.953	0.918
Arginine	2.61	2.66	2.58
Tryptophan	0.364	0.438	0.415
*Lectin (H.U./mg)	1.71	1.72	1.08
**Trypsin Inhibitor (TIU/mg)	34.8	33.9	33.4
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.347	0.344	0.300
Stachyose (%)	2.39	2.20	1.97
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	16.0	13.2
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	13.0	15.2	15.6
Daidzin	1000	973	976
Glycitin	329	353	403
Genistin	1700	1710	1700
Total Aglycone Equivalents	1900	1920	1940

**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-05-11</b>	<b>HT08SOY002-05-12</b>	<b>HT08SOY002-05-13</b>
<b>Location</b>	Adel	Adel	Adel
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1751A	1751B	1751C
<b>Covance LIMS Number</b>	90100035	90100077	90100097
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.71	1.72	1.68
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.738	0.763	0.739
18:1 Oleic	3.76	3.79	3.78
18:2 Linoleic	9.44	9.57	9.38
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.37	1.37	1.34
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0537	0.0556	0.0502
20:1 Eicosenoic	0.0275	0.0284	0.0277
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0543	0.0559	0.0542
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	< 0.0200	0.0240	< 0.0200
22:6 Docosaheptaenoic	< 0.0200	< 0.0200	< 0.0200
<b>Vitamins</b>			
Folic Acid (ppm)	2.09	2.78	2.45
Vitamin B1/Thiamine HCl (ppm)	3.2	4.1	4.1
Vitamin B2/Riboflavin (ppm)	4.83	3.95	3.33
Vitamin K (ppm)	< 0.100	0.202	0.197
Vitamin A/Beta Carotene (ppm)	< 0.200	< 0.200	< 0.200

**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-06-11	HT08SOY002-06-12	HT08SOY002-06-13
<b>Location</b>	Winterset	Winterset	Winterset
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1752A	1752B	1752C
<b>Covance LIMS Number</b>	90100041	90100074	90100081
<b>Proximate (%)</b>			
Moisture	10.2	9.93	10.1
Protein	35.9	36.3	35.5
Total Fat	16.2	16.5	17.4
Ash	5.11	4.79	4.74
Carbohydrates	32.6	32.5	32.3
Acid Detergent Fiber (%)	14.2	16.1	15.3
Neutral Detergent Fiber (%)	15.3	17.6	17.0
Phytic Acid (%)	1.15	1.39	1.37
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	14.4	15.7	15.5
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	168	170	178
Delta Tocopherol	56.8	64.3	67.3
Total Tocopherols	239	250	261
<b>Minerals (ppm)</b>			
Iron	75.9	75.2	76.1
<b>Minerals (%)</b>			
Calcium	0.272	0.246	0.251
Magnesium	0.218	0.211	0.215
Phosphorus	0.573	0.586	0.575
Potassium	1.75	1.75	1.80
Sodium	< 0.0100	< 0.0100	< 0.0100

**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-06-11	HT08SOY002-06-12	HT08SOY002-06-13
<b>Location</b>	Winterset	Winterset	Winterset
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1752A	1752B	1752C
<b>Covance LIMS Number</b>	90100041	90100074	90100081
<b>Amino Acids (%)</b>			
Aspartic Acid	4.10	4.15	4.12
Threonine	1.43	1.41	1.42
Serine	1.87	1.78	1.81
Glutamic Acid	6.28	6.36	6.31
Proline	1.68	1.71	1.72
Glycine	1.56	1.58	1.57
Alanine	1.55	1.57	1.57
Cystine	0.529	0.546	0.519
Valine	1.72	1.81	1.79
Methionine	0.504	0.505	0.497
Isoleucine	1.63	1.73	1.70
Leucine	2.76	2.79	2.78
Tyrosine	1.32	1.29	1.31
Phenylalanine	1.80	1.84	1.83
Lysine	2.30	2.32	2.31
Histidine	0.975	0.986	0.978
Arginine	2.79	2.78	2.78
Tryptophan	0.419	0.454	0.437
*Lectin (H.U./mg)	1.66	1.79	2.09
**Trypsin Inhibitor (TIU/mg)	25.7	37.7	24.8
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.349	0.311	0.321
Stachyose (%)	2.61	2.15	2.22
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	< 10.0	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	< 10.0	< 10.0	< 10.0
Daidzin	768	876	871
Glycitin	268	277	301
Genistin	1430	1550	1540
Total Aglycone Equivalents	1530	1680	1690

**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-06-11	HT08SOY002-06-12	HT08SOY002-06-13
<b>Location</b>	Winterset	Winterset	Winterset
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1752A	1752B	1752C
<b>Covance LIMS Number</b>	90100041	90100074	90100081
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.59	1.61	1.69
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	0.0202
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.657	0.676	0.710
18:1 Oleic	3.13	3.35	3.53
18:2 Linoleic	8.64	8.75	9.28
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.35	1.41	1.49
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0489	0.0499	0.0523
20:1 Eicosenoic	0.0246	0.0249	0.0261
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0512	0.0516	0.0532
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	0.0206	0.0206	< 0.0200
22:6 Docosaheptaenoic	< 0.0200	< 0.0200	< 0.0200
Folic Acid (ppm)	2.35	3.08	2.94
Vitamin B1/Thiamine HCl (ppm)	2.9	3.5	3.8
Vitamin B2/Riboflavin (ppm)	5.86	3.36	3.71
Vitamin K (ppm)	0.118	0.206	0.126
Vitamin A/Beta Carotene (ppm)	< 0.200	< 0.200	< 0.200

**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-11	HT08SOY002-07-12	HT08SOY002-07-13
<b>Location</b>	Osborn	Osborn	Osborn
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1753A	1753B	1753C
<b>Covance LIMS Number</b>	90100080	90100086	90100062
<b>Proximate (%)</b>			
Moisture	9.26	9.53	9.40
Protein	33.6	33.7	32.8
Total Fat	19.4	17.8	18.9
Ash	4.67	4.70	4.67
Carbohydrates	33.1	34.3	34.2
Acid Detergent Fiber (%)	17.1	17.2	15.2
Neutral Detergent Fiber (%)	18.3	20.8	16.9
Phytic Acid (%)	1.19	1.31	1.22
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	20.0	18.9	19.8
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	198	192	200
Delta Tocopherol	65.0	64.0	65.6
Total Tocopherols	283	275	285
<b>Minerals (ppm)</b>			
Iron	73.5	71.8	73.9
<b>Minerals (%)</b>			
Calcium	0.267	0.278	0.275
Magnesium	0.216	0.220	0.220
Phosphorus	0.532	0.553	0.565
Potassium	1.79	1.74	1.80
Sodium	< 0.0100	< 0.0100	< 0.0100

**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-11	HT08SOY002-07-12	HT08SOY002-07-13
<b>Location</b>	Osborn	Osborn	Osborn
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1753A	1753B	1753C
<b>Covance LIMS Number</b>	90100080	90100086	90100062
<b>Amino Acids (%)</b>			
Aspartic Acid	3.93	3.75	3.85
Threonine	1.37	1.34	1.39
Serine	1.73	1.65	1.74
Glutamic Acid	5.99	5.70	5.82
Proline	1.61	1.52	1.58
Glycine	1.50	1.45	1.47
Alanine	1.51	1.45	1.48
Cystine	0.528	0.530	0.557
Valine	1.71	1.64	1.64
Methionine	0.483	0.469	0.498
Isoleucine	1.64	1.61	1.57
Leucine	2.67	2.57	2.61
Tyrosine	1.26	1.16	1.24
Phenylalanine	1.75	1.72	1.75
Lysine	2.22	2.14	2.20
Histidine	0.935	0.900	0.924
Arginine	2.60	2.45	2.53
Tryptophan	0.407	0.413	0.422
*Lectin (H.U./mg)	1.65	1.10	1.37
**Trypsin Inhibitor (TIU/mg)	43.2	26.6	42.1
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.336	0.292	0.364
Stachyose (%)	2.20	1.88	2.19
<b>Isoflavones (ppm)</b>			
Daidzein	12.0	10.2	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	< 10.0	< 10.0	< 10.0
Daidzin	810	791	844
Glycitin	367	359	325
Genistin	1640	1650	1650
Total Aglycone Equivalents	1770	1750	1750



**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-07-11</b>	<b>HT08SOY002-07-12</b>	<b>HT08SOY002-07-13</b>
<b>Location</b>	Osborn	Osborn	Osborn
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1753A	1753B	1753C
<b>Covance LIMS Number</b>	90100080	90100086	90100062
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.91	1.73	1.88
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	0.0206	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.809	0.733	0.784
18:1 Oleic	4.08	3.75	3.94
18:2 Linoleic	10.2	9.31	10.1
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.50	1.40	1.49
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0599	0.0545	0.0576
20:1 Eicosenoic	0.0316	0.0284	0.0299
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0611	0.0559	0.0584
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	0.0212	< 0.0200	< 0.0200
22:6 Docosahexaenoic	< 0.0200	< 0.0200	< 0.0200
Folic Acid (ppm)	2.89	2.68	2.61
Vitamin B1/Thiamine HCl (ppm)	3.9	3.4	3.9
Vitamin B2/Riboflavin (ppm)	3.78	4.11	3.71
Vitamin K (ppm)	0.199	0.197	0.234
Vitamin A/Beta Carotene (ppm)	< 0.200	< 0.200	< 0.200

**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-08-11	HT08SOY002-08-12	HT08SOY002-08-13
<b>Location</b>	Fithian	Fithian	Fithian
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1754A	1754B	1754C
<b>Covance LIMS Number</b>	90100064	90100029	90100030
<b>Proximate (%)</b>			
Moisture	10.2	9.84	10.3
Protein	35.9	33.7	35.6
Total Fat	17.5	18.6	17.5
Ash	4.79	4.62	4.60
Carbohydrates	31.6	33.2	32.0
Acid Detergent Fiber (%)	16.2	15.7	14.2
Neutral Detergent Fiber (%)	16.7	17.5	16.8
Phytic Acid (%)	1.20	1.24	1.19
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	19.3	19.4	16.3
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	176	193	171
Delta Tocopherol	59.7	67.5	64.1
Total Tocopherols	255	280	251
<b>Minerals (ppm)</b>			
Iron	67.4	69.1	69.2
<b>Minerals (%)</b>			
Calcium	0.243	0.251	0.239
Magnesium	0.220	0.223	0.222
Phosphorus	0.545	0.562	0.528
Potassium	1.73	1.74	1.68
Sodium	< 0.0100	< 0.0100	0.0154

**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-08-11	HT08SOY002-08-12	HT08SOY002-08-13
<b>Location</b>	Fithian	Fithian	Fithian
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1754A	1754B	1754C
<b>Covance LIMS Number</b>	90100064	90100029	90100030
<b>Amino Acids (%)</b>			
Aspartic Acid	4.22	3.91	4.07
Threonine	1.49	1.36	1.42
Serine	1.92	1.76	1.85
Glutamic Acid	6.50	5.98	6.25
Proline	1.77	1.60	1.69
Glycine	1.58	1.49	1.54
Alanine	1.57	1.49	1.53
Cystine	0.564	0.534	0.544
Valine	1.74	1.69	1.71
Methionine	0.523	0.478	0.495
Isoleucine	1.70	1.62	1.64
Leucine	2.86	2.66	2.75
Tyrosine	1.34	1.27	1.29
Phenylalanine	1.91	1.73	1.80
Lysine	2.35	2.18	2.25
Histidine	0.991	0.921	0.956
Arginine	2.87	2.58	2.70
Tryptophan	0.434	0.366	0.373
*Lectin (H.U./mg)	1.70	1.61	1.61
**Trypsin Inhibitor (TIU/mg)	37.3	25.6	30.0
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.384	0.362	0.361
Stachyose (%)	2.25	2.31	2.37
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	< 10.0	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	< 10.0	< 10.0	< 10.0
Daidzin	831	924	905
Glycitin	331	396	311
Genistin	1520	1670	1580
Total Aglycone Equivalents	1670	1860	1740

**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-08-11</b>	<b>HT08SOY002-08-12</b>	<b>HT08SOY002-08-13</b>
<b>Location</b>	Fithian	Fithian	Fithian
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1754A	1754B	1754C
<b>Covance LIMS Number</b>	90100064	90100029	90100030
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.74	1.85	1.71
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	0.0203	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.715	0.741	0.699
18:1 Oleic	3.84	3.97	3.77
18:2 Linoleic	9.26	9.83	9.13
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.29	1.41	1.30
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0526	0.0546	0.0516
20:1 Eicosenoic	0.0286	0.0302	0.0277
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0522	0.0554	0.0521
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	< 0.0200	< 0.0200	< 0.0200
22:6 Docosahexaenoic	< 0.0200	< 0.0200	< 0.0200
<b>Folic Acid (ppm)</b>	2.81	2.61	2.47
<b>Vitamin B1/Thiamine HCl (ppm)</b>	3.6	2.9	2.9
<b>Vitamin B2/Riboflavin (ppm)</b>	3.96	4.31	4.28
<b>Vitamin K (ppm)</b>	0.208	0.271	0.253
<b>Vitamin A/Beta Carotene (ppm)</b>	0.218	< 0.200	< 0.200

**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-09-11	HT08SOY002-09-12	HT08SOY002-09-13
<b>Location</b>	Sharpsville	Sharpsville	Sharpsville
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1755A	1755B	1755C
<b>Covance LIMS Number</b>	90100046	90100101	90100044
<b>Proximate (%)</b>			
Moisture	8.57	8.11	8.45
Protein	35.9	36.1	35.1
Total Fat	18.9	17.5	18.5
Ash	5.19	5.58	4.78
Carbohydrates	31.4	32.7	33.2
Acid Detergent Fiber (%)	14.1	18.0	15.8
Neutral Detergent Fiber (%)	17.2	20.5	17.8
Phytic Acid (%)	1.11	1.21	1.22
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	27.6	18.1	20.1
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	200	168	187
Delta Tocopherol	58.2	58.5	61.6
Total Tocopherols	286	245	269
<b>Minerals (ppm)</b>			
Iron	162 <sup>1</sup>	268 <sup>1</sup>	85.7
<b>Minerals (%)</b>			
Calcium	0.245	0.256	0.261
Magnesium	0.201	0.204	0.207
Phosphorus	0.541	0.540	0.571
Potassium	1.78	1.76	1.78
Sodium	< 0.0100	< 0.0100	0.0126

<sup>1</sup> Confirmed by retest.

**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-09-11</b>	<b>HT08SOY002-09-12</b>	<b>HT08SOY002-09-13</b>
<b>Location</b>	Sharpsville	Sharpsville	Sharpsville
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1755A	1755B	1755C
<b>Covance LIMS Number</b>	90100046	90100101	90100044
<b>Amino Acids (%)</b>			
Aspartic Acid	4.14	4.08	3.94
Threonine	1.43	1.43	1.40
Serine	1.90	1.77	1.82
Glutamic Acid	6.38	6.29	6.03
Proline	1.69	1.70	1.57
Glycine	1.59	1.57	1.52
Alanine	1.58	1.56	1.52
Cystine	0.566	0.530	0.550
Valine	1.76	1.79	1.66
Methionine	0.524	0.490	0.505
Isoleucine	1.69	1.73	1.59
Leucine	2.79	2.79	2.66
Tyrosine	1.34	1.26	1.29
Phenylalanine	1.83	1.88	1.73
Lysine	2.32	2.31	2.24
Histidine	0.977	0.970	0.935
Arginine	2.78	2.73	2.62
Tryptophan	0.399	0.447	0.383
*Lectin (H.U./mg)	1.11	0.930	1.78
**Trypsin Inhibitor (TIU/mg)	32.0	32.4	35.5
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.324	0.291	0.343
Stachyose (%)	2.50	2.11	2.60
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	< 10.0	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	< 10.0	< 10.0	< 10.0
Daidzin	439	497	529
Glycitin	322	358	363
Genistin	767	820	861
Total Aglycone Equivalents	952	1040	1090

**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-09-11</b>	<b>HT08SOY002-09-12</b>	<b>HT08SOY002-09-13</b>
<b>Location</b>	Sharpsville	Sharpsville	Sharpsville
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1755A	1755B	1755C
<b>Covance LIMS Number</b>	90100046	90100101	90100044
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.80	1.65	1.76
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.861	0.773	0.830
18:1 Oleic	4.37	3.98	4.28
18:2 Linoleic	9.72	8.84	9.41
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.41	1.29	1.35
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0655	0.0551	0.0620
20:1 Eicosenoic	0.0332	0.0285	0.0312
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0621	0.0554	0.0584
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	0.0297	0.0231	0.0256
22:6 Docosahexaenoic	< 0.0200	< 0.0200	< 0.0200
Folic Acid (ppm)	3.07	3.32	2.32
Vitamin B1/Thiamine HCl (ppm)	3.1	4.0	3.8
Vitamin B2/Riboflavin (ppm)	3.34	3.91	5.93
Vitamin K (ppm)	0.152	0.217	0.129
Vitamin A/Beta Carotene (ppm)	0.366	0.314	0.281

**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-11	HT08SOY002-10-12	HT08SOY002-10-13
<b>Location</b>	Mediapolis	Mediapolis	Mediapolis
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1756A	1756B	1756C
<b>Covance LIMS Number</b>	90100130	90100073	90100138
<b>Proximate (%)</b>			
Moisture	9.11	9.29	9.21
Protein	33.8	34.6	34.9
Total Fat	16.7	17.7	17.1
Ash	4.70	4.72	4.69
Carbohydrates	35.7	33.7	34.1
Acid Detergent Fiber (%)	19.3	16.2	20.3
Neutral Detergent Fiber (%)	22.3	17.6	20.7
Phytic Acid (%)	1.23	1.28	1.18
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	15.6	17.6	15.3
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	195	186	192
Delta Tocopherol	66.5	61.9	64.1
Total Tocopherols	277	266	271
<b>Minerals (ppm)</b>			
Iron	70.5	72.3	69.9
<b>Minerals (%)</b>			
Calcium	0.302	0.301	0.294
Magnesium	0.217	0.220	0.220
Phosphorus	0.536	0.585	0.541
Potassium	1.63	1.73	1.65
Sodium	0.0136	< 0.0100	0.0113



**Table 1  
Compositional Analyses of  
Soy Seed - Fresh Weight  
Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-10-11</b>	<b>HT08SOY002-10-12</b>	<b>HT08SOY002-10-13</b>
<b>Location</b>	Mediapolis	Mediapolis	Mediapolis
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1756A	1756B	1756C
<b>Covance LIMS Number</b>	90100130	90100073	90100138
<b>Amino Acids (%)</b>			
Aspartic Acid	3.91	4.01	3.93
Threonine	1.36	1.37	1.41
Serine	1.81	1.72	1.78
Glutamic Acid	5.98	6.16	5.98
Proline	1.57	1.65	1.58
Glycine	1.51	1.54	1.52
Alanine	1.50	1.54	1.50
Cystine	0.503	0.508	0.532
Valine	1.64	1.77	1.66
Methionine	0.453	0.483	0.492
Isoleucine	1.57	1.69	1.61
Leucine	2.64	2.73	2.66
Tyrosine	1.27	1.23	1.28
Phenylalanine	1.73	1.79	1.78
Lysine	2.22	2.26	2.25
Histidine	0.928	0.954	0.945
Arginine	2.59	2.65	2.64
Tryptophan	0.371	0.437	0.398
*Lectin (H.U./mg)	1.54	1.91	1.26
**Trypsin Inhibitor (TIU/mg)	21.9	32.1	21.7
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.268	0.300	0.260
Stachyose (%)	2.29	2.15	2.11
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	11.9	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	< 10.0	< 10.0	< 10.0
Daidzin	541	594	602
Glycitin	272	331	325
Genistin	1150	1190	1240
Total Aglycone Equivalents	1220	1330	1350

**Table 1**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-10-11</b>	<b>HT08SOY002-10-12</b>	<b>HT08SOY002-10-13</b>
<b>Location</b>	Mediapolis	Mediapolis	Mediapolis
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1756A	1756B	1756C
<b>Covance LIMS Number</b>	90100130	90100073	90100138
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.62	1.72	1.67
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.666	0.710	0.689
18:1 Oleic	3.48	3.78	3.59
18:2 Linoleic	8.92	9.42	9.08
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.32	1.39	1.34
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0495	0.0528	0.0505
20:1 Eicosenoic	0.0269	0.0280	0.0277
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0512	0.0540	0.0523
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	0.0217	0.0270	0.0225
22:6 Docosahexaenoic	< 0.0200	< 0.0200	< 0.0200
Folic Acid (ppm)	2.89	3.09	2.57
Vitamin B1/Thiamine HCl (ppm)	3.6	3.4	3.9
Vitamin B2/Riboflavin (ppm)	4.41	3.74	5.67
Vitamin K (ppm)	0.296	0.242	0.290
Vitamin A/Beta Carotene (ppm)	< 0.200	0.210	< 0.200

**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-01-21	HT08SOY002-01-22	HT08SOY002-01-23
<b>Location</b>	Marcus	Marcus	Marcus
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1747D	1747E	1747F
<b>Covance LIMS Number</b>	90100066	90100095	90100131
<b>Proximate (%)</b>			
Moisture	10.1	9.86	10.4
Protein	34.9	34.7	34.3
Total Fat	16.8	16.7	15.6
Ash	3.98	3.76	4.15
Carbohydrates	34.2	35.0	35.6
Acid Detergent Fiber (%)	15.0	15.3	21.1
Neutral Detergent Fiber (%)	17.1	18.3	22.8
Phytic Acid (%)	0.839	0.936	0.794
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	13.3	11.0	10.5
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	168	158	163
Delta Tocopherol	74.6	75.1	78.4
Total Tocopherols	256	244	252
<b>Minerals (ppm)</b>			
Iron	67.8	68.8	68.0
<b>Minerals (%)</b>			
Calcium	0.216	0.215	0.206
Magnesium	0.187	0.185	0.184
Phosphorus	0.433	0.440	0.415
Potassium	1.59	1.53	1.52
Sodium	< 0.0100	< 0.0100	0.0137

**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-01-21	HT08SOY002-01-22	HT08SOY002-01-23
<b>Location</b>	Marcus	Marcus	Marcus
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1747D	1747E	1747F
<b>Covance LIMS Number</b>	90100066	90100095	90100131
<b>Amino Acids (%)</b>			
Aspartic Acid	4.03	3.96	4.04
Threonine	1.44	1.42	1.40
Serine	1.82	1.81	1.88
Glutamic Acid	6.28	6.13	6.34
Proline	1.72	1.66	1.67
Glycine	1.53	1.50	1.54
Alanine	1.54	1.50	1.53
Cystine	0.508	0.485	0.460
Valine	1.74	1.67	1.70
Methionine	0.481	0.476	0.440
Isoleucine	1.68	1.60	1.61
Leucine	2.81	2.71	2.76
Tyrosine	1.31	1.28	1.29
Phenylalanine	1.88	1.83	1.81
Lysine	2.28	2.22	2.25
Histidine	0.973	0.947	0.960
Arginine	2.80	2.72	2.76
Tryptophan	0.409	0.426	0.343
*Lectin (H.U./mg)	1.33	1.25	1.01
**Trypsin Inhibitor (TIU/mg)	22.9	22.4	17.6
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.359	0.335	0.285
Stachyose (%)	2.10	1.95	1.91
<b>Isoflavones (ppm)</b>			
Daidzein	10.7	12.4	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	10.5	11.6	< 10.0
Daidzin	1520	1460	1470
Glycitin	379	406	395
Genistin	2210	2120	2100
Total Aglycone Equivalents	2570	2500	2460

**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-01-21	HT08SOY002-01-22	HT08SOY002-01-23
<b>Location</b>	Marcus	Marcus	Marcus
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1747D	1747E	1747F
<b>Covance LIMS Number</b>	90100066	90100095	90100131
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.52	1.48	1.40
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.698	0.707	0.661
18:1 Oleic	3.88	3.81	3.60
18:2 Linoleic	8.67	8.62	8.04
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.24	1.30	1.22
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0494	0.0473	0.0475
20:1 Eicosenoic	0.0243	0.0244	0.0237
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0520	0.0525	0.0495
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	< 0.0200	< 0.0200	< 0.0200
22:6 Docosaheptaenoic	< 0.0200	< 0.0200	< 0.0200
Folic Acid (ppm)	2.90	3.18	2.86
Vitamin B1/Thiamine HCl (ppm)	3.1	2.9	2.9
Vitamin B2/Riboflavin (ppm)	3.06	3.51	4.80
Vitamin K (ppm)	0.140	0.138	0.120
Vitamin A/Beta Carotene (ppm)	< 0.200	< 0.200	< 0.200

**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-02-21	HT08SOY002-02-22	HT08SOY002-02-23
<b>Location</b>	Iowa Falls	Iowa Falls	Iowa Falls
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1748D	1748E	1748F
<b>Covance LIMS Number</b>	90100023	90100033	90100022
<b>Proximate (%)</b>			
Moisture	11.5	10.9	11.2
Protein	34.4	35.1	35.3
Total Fat	16.4	16.0	15.7
Ash	4.38	4.55	4.36
Carbohydrates	33.3	33.5	33.4
Acid Detergent Fiber (%)	15.0	13.7	15.6
Neutral Detergent Fiber (%)	15.7	15.6	15.8
Phytic Acid (%)	1.22	1.27	1.21
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	13.7	11.0	12.6
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	173	157	167
Delta Tocopherol	76.8	77.4	79.9
Total Tocopherols	264	245	260
<b>Minerals (ppm)</b>			
Iron	69.3	65.5	66.9
<b>Minerals (%)</b>			
Calcium	0.204	0.201	0.198
Magnesium	0.200	0.202	0.201
Phosphorus	0.542	0.570	0.546
Potassium	1.65	1.66	1.61
Sodium	0.0103	< 0.0100	< 0.0100

**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-02-21	HT08SOY002-02-22	HT08SOY002-02-23
<b>Location</b>	Iowa Falls	Iowa Falls	Iowa Falls
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1748D	1748E	1748F
<b>Covance LIMS Number</b>	90100023	90100033	90100022
<b>Amino Acids (%)</b>			
Aspartic Acid	3.94	4.10	4.02
Threonine	1.37	1.43	1.38
Serine	1.77	1.87	1.83
Glutamic Acid	6.12	6.42	6.32
Proline	1.67	1.73	1.76
Glycine	1.51	1.56	1.54
Alanine	1.50	1.55	1.53
Cystine	0.540	0.543	0.537
Valine	1.71	1.74	1.74
Methionine	0.497	0.507	0.517
Isoleucine	1.62	1.65	1.65
Leucine	2.69	2.78	2.74
Tyrosine	1.24	1.30	1.21
Phenylalanine	1.76	1.82	1.80
Lysine	2.20	2.26	2.24
Histidine	0.942	0.968	0.959
Arginine	2.68	2.80	2.75
Tryptophan	0.352	0.371	0.385
*Lectin (H.U./mg)	1.11	1.28	0.977
**Trypsin Inhibitor (TIU/mg)	22.6	22.2	21.8
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.323	0.307	0.306
Stachyose (%)	2.24	2.18	2.17
<b>Isoflavones (ppm)</b>			
Daidzein	13.4	< 10.0	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	13.9	10.2	< 10.0
Daidzin	1350	1280	1330
Glycitin	328	307	307
Genistin	2020	1820	1830
Total Aglycone Equivalents	2320	2120	2150

**Table 2  
Compositional Analyses of  
Soy Seed - Fresh Weight  
Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-02-21	HT08SOY002-02-22	HT08SOY002-02-23
<b>Location</b>	Iowa Falls	Iowa Falls	Iowa Falls
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1748D	1748E	1748F
<b>Covance LIMS Number</b>	90100023	90100033	90100022
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.45	1.40	1.39
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.706	0.699	0.688
18:1 Oleic	3.96	3.96	4.01
18:2 Linoleic	8.12	7.86	7.80
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.33	1.28	1.28
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0508	0.0509	0.0506
20:1 Eicosenoic	0.0240	0.0235	0.0238
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0527	0.0538	0.0534
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	< 0.0200	< 0.0200	< 0.0200
22:6 Docosaheptaenoic	< 0.0200	< 0.0200	< 0.0200
Folic Acid (ppm)	2.69	2.57	2.56
Vitamin B1/Thiamine HCl (ppm)	1.7	1.5	1.7
Vitamin B2/Riboflavin (ppm)	3.17	3.39	3.56
Vitamin K (ppm)	< 0.100	< 0.100	< 0.100
Vitamin A/Beta Carotene (ppm)	< 0.200	< 0.200	< 0.200



**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-03-21	HT08SOY002-03-22	HT08SOY002-03-23
<b>Location</b>	Glidden	Glidden	Glidden
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1749D	1749E	1749F
<b>Covance LIMS Number</b>	90100135	90100069	90100049
<b>Proximate (%)</b>			
Moisture	10.0	9.91	9.83
Protein	34.8	34.3	34.6
Total Fat	16.0	17.3	17.7
Ash	5.00	4.66	4.93
Carbohydrates	34.2	33.8	32.9
Acid Detergent Fiber (%)	17.0	14.5	12.7
Neutral Detergent Fiber (%)	19.3	16.2	15.2
Phytic Acid (%)	1.72	1.51	1.69
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	11.0	15.1	15.4
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	162	181	174
Delta Tocopherol	72.6	75.1	75.7
Total Tocopherols	246	271	265
<b>Minerals (ppm)</b>			
Iron	81.6	75.7	81.8
<b>Minerals (%)</b>			
Calcium	0.235	0.215	0.224
Magnesium	0.215	0.196	0.208
Phosphorus	0.644	0.614	0.693
Potassium	1.75	1.72	1.84
Sodium	0.0112	< 0.0100	0.0147

**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-03-21	HT08SOY002-03-22	HT08SOY002-03-23
<b>Location</b>	Glidden	Glidden	Glidden
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1749D	1749E	1749F
<b>Covance LIMS Number</b>	90100135	90100069	90100049
<b>Amino Acids (%)</b>			
Aspartic Acid	4.02	3.97	4.00
Threonine	1.45	1.42	1.41
Serine	1.82	1.78	1.85
Glutamic Acid	6.21	6.14	6.22
Proline	1.68	1.64	1.64
Glycine	1.53	1.52	1.52
Alanine	1.53	1.53	1.52
Cystine	0.530	0.538	0.541
Valine	1.70	1.72	1.69
Methionine	0.495	0.492	0.513
Isoleucine	1.62	1.65	1.59
Leucine	2.73	2.74	2.71
Tyrosine	1.29	1.27	1.28
Phenylalanine	1.82	1.82	1.76
Lysine	2.28	2.27	2.25
Histidine	0.967	0.954	0.951
Arginine	2.78	2.74	2.74
Tryptophan	0.403	0.408	0.388
*Lectin (H.U./mg)	0.737	1.75	1.04
**Trypsin Inhibitor (TIU/mg)	25.3	30.0	37.4
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.325	0.411	0.368
Stachyose (%)	2.12	2.21	2.34
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	10.2	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	< 10.0	13.2	11.0
Daidzin	1040	1070	1060
Glycitin	377	379	379
Genistin	1680	1780	1710
Total Aglycone Equivalents	1930	2030	1970

**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-03-21	HT08SOY002-03-22	HT08SOY002-03-23
<b>Location</b>	Glidden	Glidden	Glidden
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1749D	1749E	1749F
<b>Covance LIMS Number</b>	90100135	90100069	90100049
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.42	1.55	1.55
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.693	0.761	0.766
18:1 Oleic	3.83	4.14	4.25
18:2 Linoleic	7.99	8.66	8.88
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.32	1.37	1.48
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0494	0.0539	0.0553
20:1 Eicosenoic	0.0237	0.0251	0.0266
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0526	0.0552	0.0574
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	< 0.0200	0.0205	0.0230
22:6 Docosahexaenoic	< 0.0200	< 0.0200	< 0.0200
<b>Folic Acid (ppm)</b>			
Folic Acid (ppm)	2.65	2.72	2.93
<b>Vitamin B1/Thiamine HCl (ppm)</b>			
Vitamin B1/Thiamine HCl (ppm)	2.4	3.0	1.7
<b>Vitamin B2/Riboflavin (ppm)</b>			
Vitamin B2/Riboflavin (ppm)	5.54	3.41	4.18
<b>Vitamin K (ppm)</b>			
Vitamin K (ppm)	0.163	0.183	0.125
<b>Vitamin A/Beta Carotene (ppm)</b>			
Vitamin A/Beta Carotene (ppm)	< 0.200	< 0.200	< 0.200

**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-04-21	HT08SOY002-04-22	HT08SOY002-04-23
<b>Location</b>	Perry	Perry	Perry
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1750D	1750E	1750F
<b>Covance LIMS Number</b>	90100091	90100111	90100092
<b>Proximate (%)</b>			
Moisture	9.07	8.89	9.36
Protein	33.7	33.8	33.7
Total Fat	17.6	16.7	17.8
Ash	4.74	4.69	4.88
Carbohydrates	34.9	35.9	34.3
Acid Detergent Fiber (%)	15.9	16.8	15.0
Neutral Detergent Fiber (%)	18.9	18.7	18.5
Phytic Acid (%)	1.15	1.44	1.43
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	17.7	16.3	16.4
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	181	177	177
Delta Tocopherol	71.4	66.2	66.5
Total Tocopherols	270	260	260
<b>Minerals (ppm)</b>			
Iron	77.7	84.1	81.2
<b>Minerals (%)</b>			
Calcium	0.238	0.236	0.239
Magnesium	0.195	0.205	0.200
Phosphorus	0.542	0.590	0.595
Potassium	1.68	1.61	1.72
Sodium	< 0.0100	0.0183	< 0.0100

**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-04-21	HT08SOY002-04-22	HT08SOY002-04-23
<b>Location</b>	Perry	Perry	Perry
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1750D	1750E	1750F
<b>Covance LIMS Number</b>	90100091	90100111	90100092
<b>Amino Acids (%)</b>			
Aspartic Acid	3.86	3.86	3.70
Threonine	1.38	1.34	1.31
Serine	1.70	1.74	1.59
Glutamic Acid	5.96	5.98	5.71
Proline	1.61	1.65	1.56
Glycine	1.50	1.49	1.45
Alanine	1.51	1.50	1.45
Cystine	0.502	0.509	0.503
Valine	1.72	1.69	1.66
Methionine	0.463	0.472	0.474
Isoleucine	1.65	1.61	1.59
Leucine	2.67	2.67	2.57
Tyrosine	1.21	1.25	1.21
Phenylalanine	1.79	1.75	1.71
Lysine	2.20	2.19	2.12
Histidine	0.939	0.932	0.895
Arginine	2.60	2.66	2.51
Tryptophan	0.425	0.405	0.433
*Lectin (H.U./mg)	1.03	1.64	0.985
**Trypsin Inhibitor (TIU/mg)	33.8	21.3	32.6
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.354	0.384	0.424
Stachyose (%)	1.93	2.39	2.07
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	< 10.0	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	10.3	10.2	12.5
Daidzin	1070	1030	997
Glycitin	366	399	452
Genistin	1810	1740	1610
Total Aglycone Equivalents	2030	1980	1920

**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-04-21	HT08SOY002-04-22	HT08SOY002-04-23
<b>Location</b>	Perry	Perry	Perry
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1750D	1750E	1750F
<b>Covance LIMS Number</b>	90100091	90100111	90100092
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.55	1.48	1.55
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.753	0.754	0.803
18:1 Oleic	3.91	3.90	4.13
18:2 Linoleic	8.88	8.40	8.89
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.38	1.31	1.38
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0524	0.0537	0.0561
20:1 Eicosenoic	0.0264	0.0258	0.0274
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0527	0.0530	0.0544
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	< 0.0200	< 0.0200	0.0206
22:6 Docosaheptaenoic	< 0.0200	< 0.0200	< 0.0200
Folic Acid (ppm)	2.76	2.92	2.67
Vitamin B1/Thiamine HCl (ppm)	3.3	3.2	3.6
Vitamin B2/Riboflavin (ppm)	4.18	5.49	3.42
Vitamin K (ppm)	0.186	0.173	0.206
Vitamin A/Beta Carotene (ppm)	0.207	< 0.200	0.212

**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-05-21	HT08SOY002-05-22	HT08SOY002-05-23
<b>Location</b>	Adel	Adel	Adel
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1751D	1751E	1751F
<b>Covance LIMS Number</b>	90100102	90100119	90100025
<b>Proximate (%)</b>			
Moisture	9.51	9.32	9.86
Protein	35.3	33.5	34.8
Total Fat	15.0	16.7	17.1
Ash	4.50	4.87	4.56
Carbohydrates	35.7	35.6	33.7
Acid Detergent Fiber (%)	16.4	16.7	15.1
Neutral Detergent Fiber (%)	19.0	17.6	17.6
Phytic Acid (%)	1.10	1.40	1.29
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	18.0	14.6	16.4
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	174	173	188
Delta Tocopherol	55.2	64.6	72.5
Total Tocopherols	247	252	277
<b>Minerals (ppm)</b>			
Iron	77.3	74.8	70.7
<b>Minerals (%)</b>			
Calcium	0.279	0.229	0.234
Magnesium	0.242	0.209	0.210
Phosphorus	0.595	0.600	0.577
Potassium	1.70	1.70	1.66
Sodium	0.0150	< 0.0100	0.0361

**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-05-21	HT08SOY002-05-22	HT08SOY002-05-23
<b>Location</b>	Adel	Adel	Adel
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1751D	1751E	1751F
<b>Covance LIMS Number</b>	90100102	90100119	90100025
<b>Amino Acids (%)</b>			
Aspartic Acid	4.10	3.84	3.93
Threonine	1.40	1.36	1.37
Serine	1.84	1.78	1.77
Glutamic Acid	6.42	5.91	6.09
Proline	1.73	1.60	1.70
Glycine	1.57	1.47	1.52
Alanine	1.57	1.47	1.51
Cystine	0.528	0.537	0.547
Valine	1.79	1.61	1.71
Methionine	0.481	0.497	0.496
Isoleucine	1.69	1.53	1.62
Leucine	2.78	2.60	2.67
Tyrosine	1.30	1.23	1.23
Phenylalanine	1.82	1.70	1.74
Lysine	2.32	2.18	2.20
Histidine	0.985	0.920	0.940
Arginine	2.80	2.57	2.64
Tryptophan	0.403	0.358	0.383
*Lectin (H.U./mg)	0.593	1.14	1.71
**Trypsin Inhibitor (TIU/mg)	33.3	25.6	23.1
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.306	0.369	0.383
Stachyose (%)	1.89	2.20	2.31
<b>Isoflavones (ppm)</b>			
Daidzein	11.6	< 10.0	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	13.9	11.8	12.1
Daidzin	885	1060	1100
Glycitin	379	463	406
Genistin	1390	1700	1700
Total Aglycone Equivalents	1680	2020	2000



**Table 2  
Compositional Analyses of  
Soy Seed - Fresh Weight  
Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-05-21	HT08SOY002-05-22	HT08SOY002-05-23
<b>Location</b>	Adel	Adel	Adel
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1751D	1751E	1751F
<b>Covance LIMS Number</b>	90100102	90100119	90100025
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.37	1.44	1.49
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.687	0.696	0.745
18:1 Oleic	3.48	3.77	4.06
18:2 Linoleic	7.80	8.24	8.45
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.12	1.23	1.23
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0496	0.0493	0.0530
20:1 Eicosenoic	0.0240	0.0250	0.0260
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0501	0.0502	0.0530
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	< 0.0200	< 0.0200	< 0.0200
22:6 Docosaheptaenoic	< 0.0200	< 0.0200	< 0.0200
Folic Acid (ppm)	2.78	2.82	2.67
Vitamin B1/Thiamine HCl (ppm)	4.2	3.9	2.5
Vitamin B2/Riboflavin (ppm)	4.76	3.63	3.57
Vitamin K (ppm)	0.211	0.236	< 0.100
Vitamin A/Beta Carotene (ppm)	< 0.200	< 0.200	< 0.200

**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-06-21	HT08SOY002-06-22	HT08SOY002-06-23
<b>Location</b>	Winterset	Winterset	Winterset
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1752D	1752E	1752F
<b>Covance LIMS Number</b>	90100139	90100118	90100141
<b>Proximate (%)</b>			
Moisture	10.1	10.3	9.58
Protein	34.8	35.6	35.2
Total Fat	15.2	15.4	15.0
Ash	4.81	4.46	4.61
Carbohydrates	35.1	34.2	35.6
Acid Detergent Fiber (%)	17.5	17.3	19.1
Neutral Detergent Fiber (%)	19.0	19.8	21.7
Phytic Acid (%)	1.22	1.20	1.18
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	12.1	14.1	12.3
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	178	166	177
Delta Tocopherol	75.6	62.4	67.5
Total Tocopherols	266	243	257
<b>Minerals (ppm)</b>			
Iron	75.5	68.8	74.1
<b>Minerals (%)</b>			
Calcium	0.214	0.222	0.221
Magnesium	0.211	0.196	0.204
Phosphorus	0.591	0.544	0.561
Potassium	1.73	1.61	1.67
Sodium	0.0157	0.0123	0.0181

**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-06-21	HT08SOY002-06-22	HT08SOY002-06-23
<b>Location</b>	Winterset	Winterset	Winterset
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1752D	1752E	1752F
<b>Covance LIMS Number</b>	90100139	90100118	90100141
<b>Amino Acids (%)</b>			
Aspartic Acid	3.94	4.13	4.05
Threonine	1.42	1.42	1.45
Serine	1.79	1.88	1.83
Glutamic Acid	6.05	6.40	6.25
Proline	1.58	1.73	1.64
Glycine	1.52	1.56	1.56
Alanine	1.49	1.56	1.54
Cystine	0.519	0.515	0.531
Valine	1.67	1.75	1.74
Methionine	0.476	0.492	0.501
Isoleucine	1.61	1.67	1.66
Leucine	2.67	2.80	2.76
Tyrosine	1.27	1.30	1.30
Phenylalanine	1.78	1.85	1.84
Lysine	2.26	2.31	2.32
Histidine	0.952	0.982	0.978
Arginine	2.67	2.78	2.78
Tryptophan	0.392	0.387	0.403
*Lectin (H.U./mg)	0.903	1.56	0.948
**Trypsin Inhibitor (TIU/mg)	28.3	22.3	21.5
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.252	0.293	0.288
Stachyose (%)	1.94	2.16	2.20
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	< 10.0	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	< 10.0	< 10.0	< 10.0
Daidzin	941	891	863
Glycitin	315	314	360
Genistin	1610	1530	1430
Total Aglycone Equivalents	1780	1700	1650

**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-06-21	HT08SOY002-06-22	HT08SOY002-06-23
<b>Location</b>	Winterset	Winterset	Winterset
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1752D	1752E	1752F
<b>Covance LIMS Number</b>	90100139	90100118	90100141
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.40	1.42	1.38
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.639	0.660	0.641
18:1 Oleic	3.41	3.47	3.39
18:2 Linoleic	7.84	7.96	7.69
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.27	1.26	1.23
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0463	0.0478	0.0467
20:1 Eicosenoic	0.0235	0.0242	0.0234
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0498	0.0505	0.0492
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	< 0.0200	< 0.0200	< 0.0200
22:6 Docosaheptaenoic	< 0.0200	< 0.0200	< 0.0200
Folic Acid (ppm)	2.59	2.85	2.67
Vitamin B1/Thiamine HCl (ppm)	3.4	3.3	3.5
Vitamin B2/Riboflavin (ppm)	3.81	3.05	3.77
Vitamin K (ppm)	0.241	0.240	0.220
Vitamin A/Beta Carotene (ppm)	< 0.200	< 0.200	< 0.200

**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-21	HT08SOY002-07-22	HT08SOY002-07-23
<b>Location</b>	Osborn	Osborn	Osborn
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1753D	1753E	1753F
<b>Covance LIMS Number</b>	90100059	90100137	90100031
<b>Proximate (%)</b>			
Moisture	9.62	9.41	9.79
Protein	33.3	33.9	34.2
Total Fat	19.0	17.1	18.0
Ash	4.44	4.61	4.72
Carbohydrates	33.6	35.0	33.3
Acid Detergent Fiber (%)	15.9	20.0	14.7
Neutral Detergent Fiber (%)	17.6	22.3	16.8
Phytic Acid (%)	0.964	1.20	1.26
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	25.1	20.4	23.1
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	200	196	185
Delta Tocopherol	62.8	63.9	61.1
Total Tocopherols	288	280	269
<b>Minerals (ppm)</b>			
Iron	70.2	70.4	72.1
<b>Minerals (%)</b>			
Calcium	0.256	0.255	0.258
Magnesium	0.207	0.215	0.217
Phosphorus	0.517	0.522	0.558
Potassium	1.70	1.64	1.68
Sodium	0.0131	0.0130	< 0.0100

**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-21	HT08SOY002-07-22	HT08SOY002-07-23
<b>Location</b>	Osborn	Osborn	Osborn
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1753D	1753E	1753F
<b>Covance LIMS Number</b>	90100059	90100137	90100031
<b>Amino Acids (%)</b>			
Aspartic Acid	3.86	4.01	3.91
Threonine	1.40	1.44	1.38
Serine	1.77	1.83	1.81
Glutamic Acid	5.86	6.15	6.00
Proline	1.59	1.65	1.64
Glycine	1.48	1.52	1.50
Alanine	1.48	1.52	1.50
Cystine	0.560	0.530	0.539
Valine	1.62	1.68	1.65
Methionine	0.497	0.490	0.479
Isoleucine	1.57	1.62	1.58
Leucine	2.63	2.72	2.66
Tyrosine	1.26	1.29	1.26
Phenylalanine	1.76	1.82	1.73
Lysine	2.20	2.27	2.19
Histidine	0.923	0.960	0.920
Arginine	2.60	2.71	2.63
Tryptophan	0.396	0.372	0.361
*Lectin (H.U./mg)	2.78	1.09	1.12
**Trypsin Inhibitor (TIU/mg)	38.3	24.4	26.0
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.336	0.317	0.341
Stachyose (%)	2.37	2.24	2.44
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	< 10.0	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	< 10.0	< 10.0	< 10.0
Daidzin	700	669	604
Glycitin	363	344	351
Genistin	1420	1360	1230
Total Aglycone Equivalents	1550	1480	1360

**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-07-21</b>	<b>HT08SOY002-07-22</b>	<b>HT08SOY002-07-23</b>
<b>Location</b>	Osborn	Osborn	Osborn
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1753D	1753E	1753F
<b>Covance LIMS Number</b>	90100059	90100137	90100031
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.75	1.58	1.66
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.824	0.730	0.794
18:1 Oleic	4.34	3.99	4.27
18:2 Linoleic	9.81	8.74	9.11
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.42	1.27	1.34
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0585	0.0527	0.0574
20:1 Eicosenoic	0.0311	0.0283	0.0292
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0592	0.0531	0.0565
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	0.0255	0.0223	0.0220
22:6 Docosahexaenoic	< 0.0200	< 0.0200	< 0.0200
<b>Folic Acid (ppm)</b>			
Folic Acid (ppm)	2.28	2.52	2.66
<b>Vitamin B1/Thiamine HCl (ppm)</b>			
Vitamin B1/Thiamine HCl (ppm)	4.6	2.9	1.9
<b>Vitamin B2/Riboflavin (ppm)</b>			
Vitamin B2/Riboflavin (ppm)	4.00	5.61	3.53
<b>Vitamin K (ppm)</b>			
Vitamin K (ppm)	0.168	0.292	0.114
<b>Vitamin A/Beta Carotene (ppm)</b>			
Vitamin A/Beta Carotene (ppm)	< 0.200	< 0.200	< 0.200

**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-08-21	HT08SOY002-08-22	HT08SOY002-08-23
<b>Location</b>	Fithian	Fithian	Fithian
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1754D	1754E	1754F
<b>Covance LIMS Number</b>	90100040	90100082	90100136
<b>Proximate (%)</b>			
Moisture	9.80	10.2	10.2
Protein	34.6	34.0	33.7
Total Fat	17.8	18.9	17.2
Ash	4.44	4.55	4.62
Carbohydrates	33.4	32.4	34.3
Acid Detergent Fiber (%)	15.9	16.1	18.0
Neutral Detergent Fiber (%)	17.0	17.4	19.2
Phytic Acid (%)	1.07	1.32	1.27
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	19.6	19.7	15.4
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	186	194	181
Delta Tocopherol	64.6	67.7	65.3
Total Tocopherols	270	281	262
<b>Minerals (ppm)</b>			
Iron	68.9	65.8	68.8
<b>Minerals (%)</b>			
Calcium	0.222	0.226	0.221
Magnesium	0.208	0.202	0.207
Phosphorus	0.522	0.581	0.563
Potassium	1.64	1.72	1.66
Sodium	< 0.0100	< 0.0100	0.0207



**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-08-21</b>	<b>HT08SOY002-08-22</b>	<b>HT08SOY002-08-23</b>
<b>Location</b>	Fithian	Fithian	Fithian
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1754D	1754E	1754F
<b>Covance LIMS Number</b>	90100040	90100082	90100136
<b>Amino Acids (%)</b>			
Aspartic Acid	3.84	3.90	3.94
Threonine	1.34	1.36	1.42
Serine	1.76	1.73	1.79
Glutamic Acid	5.93	5.99	6.06
Proline	1.55	1.63	1.59
Glycine	1.46	1.49	1.51
Alanine	1.46	1.50	1.51
Cystine	0.527	0.527	0.540
Valine	1.62	1.70	1.69
Methionine	0.495	0.491	0.490
Isoleucine	1.55	1.63	1.63
Leucine	2.61	2.66	2.71
Tyrosine	1.23	1.21	1.28
Phenylalanine	1.71	1.74	1.80
Lysine	2.15	2.21	2.26
Histidine	0.910	0.927	0.950
Arginine	2.59	2.59	2.67
Tryptophan	0.400	0.428	0.396
*Lectin (H.U./mg)	1.29	1.53	0.909
**Trypsin Inhibitor (TIU/mg)	24.2	37.4	26.6
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.402	0.472	0.369
Stachyose (%)	2.22	2.25	2.10
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	11.8	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	< 10.0	< 10.0	< 10.0
Daidzin	804	888	831
Glycitin	364	420	377
Genistin	1410	1570	1500
Total Aglycone Equivalents	1600	1800	1680

**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-08-21</b>	<b>HT08SOY002-08-22</b>	<b>HT08SOY002-08-23</b>
<b>Location</b>	<b>Fithian</b>	<b>Fithian</b>	<b>Fithian</b>
<b>Regimen</b>	<b>B</b>	<b>B</b>	<b>B</b>
<b>Description</b>	<b>FG72 unsprayed</b>	<b>FG72 unsprayed</b>	<b>FG72 unsprayed</b>
<b>BTID No.</b>	<b>1754D</b>	<b>1754E</b>	<b>1754F</b>
<b>Covance LIMS Number</b>	<b>90100040</b>	<b>90100082</b>	<b>90100136</b>
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.62	1.73	1.58
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.737	0.771	0.706
18:1 Oleic	4.24	4.42	4.06
18:2 Linoleic	9.11	9.78	8.84
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.26	1.37	1.24
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0523	0.0550	0.0501
20:1 Eicosenoic	0.0285	0.0319	0.0285
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0527	0.0566	0.0526
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	0.0207	0.0217	0.0229
22:6 Docosaheptaenoic	< 0.0200	< 0.0200	< 0.0200
<b>Folic Acid (ppm)</b>			
Folic Acid (ppm)	2.27	2.70	2.57
<b>Vitamin B1/Thiamine HCl (ppm)</b>			
Vitamin B1/Thiamine HCl (ppm)	2.5	3.2	2.9
<b>Vitamin B2/Riboflavin (ppm)</b>			
Vitamin B2/Riboflavin (ppm)	3.23	3.65	5.18
<b>Vitamin K (ppm)</b>			
Vitamin K (ppm)	< 0.100	0.200	0.223
<b>Vitamin A/Beta Carotene (ppm)</b>			
Vitamin A/Beta Carotene (ppm)	0.227	0.294	0.297

**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-09-21	HT08SOY002-09-22	HT08SOY002-09-23
<b>Location</b>	Sharpsville	Sharpsville	Sharpsville
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1755D	1755E	1755F
<b>Covance LIMS Number</b>	90100057	90100089	90100127
<b>Proximate (%)</b>			
Moisture	7.90	8.26	8.18
Protein	35.6	35.1	35.2
Total Fat	18.6	18.1	18.1
Ash	5.12	4.72	4.77
Carbohydrates	32.8	33.8	33.8
Acid Detergent Fiber (%)	16.6	15.8	17.2
Neutral Detergent Fiber (%)	17.9	19.9	20.2
Phytic Acid (%)	1.21	1.31	1.33
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	24.5	22.2	25.9
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	197	193	197
Delta Tocopherol	59.4	62.4	55.8
Total Tocopherols	281	278	279
<b>Minerals (ppm)</b>			
Iron	135 <sup>1</sup>	75.7	73.9
<b>Minerals (%)</b>			
Calcium	0.234	0.242	0.242
Magnesium	0.200	0.198	0.205
Phosphorus	0.572	0.574	0.591
Potassium	1.78	1.75	1.77
Sodium	0.0121	< 0.0100	0.0175

<sup>1</sup> Confirmed by retest.

**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-09-21	HT08SOY002-09-22	HT08SOY002-09-23
<b>Location</b>	Sharpsville	Sharpsville	Sharpsville
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1755D	1755E	1755F
<b>Covance LIMS Number</b>	90100057	90100089	90100127
<b>Amino Acids (%)</b>			
Aspartic Acid	4.12	3.96	4.03
Threonine	1.47	1.40	1.41
Serine	1.85	1.71	1.87
Glutamic Acid	6.37	6.09	6.20
Proline	1.70	1.67	1.66
Glycine	1.58	1.53	1.56
Alanine	1.57	1.54	1.56
Cystine	0.554	0.524	0.526
Valine	1.76	1.75	1.69
Methionine	0.511	0.490	0.491
Isoleucine	1.70	1.69	1.62
Leucine	2.81	2.72	2.72
Tyrosine	1.33	1.24	1.31
Phenylalanine	1.89	1.82	1.79
Lysine	2.33	2.26	2.29
Histidine	0.981	0.949	0.956
Arginine	2.81	2.66	2.73
Tryptophan	0.426	0.432	0.371
*Lectin (H.U./mg)	1.52	0.857	0.862
**Trypsin Inhibitor (TIU/mg)	34.4	26.4	27.4
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.343	0.368	0.331
Stachyose (%)	2.30	2.13	2.64
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	12.1	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	< 10.0	< 10.0	< 10.0
Daidzin	474	483	382
Glycitin	403	417	410
Genistin	687	707	576
Total Aglycone Equivalents	975	1010	854

**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-09-21</b>	<b>HT08SOY002-09-22</b>	<b>HT08SOY002-09-23</b>
<b>Location</b>	Sharpsville	Sharpsville	Sharpsville
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1755D	1755E	1755F
<b>Covance LIMS Number</b>	90100057	90100089	90100127
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.63	1.56	1.59
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.878	0.836	0.870
18:1 Oleic	4.76	4.71	4.57
18:2 Linoleic	9.14	8.74	8.78
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.31	1.26	1.25
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0641	0.0618	0.0642
20:1 Eicosenoic	0.0322	0.0312	0.0328
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0618	0.0585	0.0604
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	0.0266	0.0289	0.0285
22:6 Docosahexaenoic	< 0.0200	< 0.0200	< 0.0200
<b>Folic Acid (ppm)</b>			
Folic Acid (ppm)	3.40	3.20	3.39
<b>Vitamin B1/Thiamine HCl (ppm)</b>			
Vitamin B1/Thiamine HCl (ppm)	4.3	4.9	4.2
<b>Vitamin B2/Riboflavin (ppm)</b>			
Vitamin B2/Riboflavin (ppm)	4.46	3.98	4.74
<b>Vitamin K (ppm)</b>			
Vitamin K (ppm)	0.191	0.235	0.337
<b>Vitamin A/Beta Carotene (ppm)</b>			
Vitamin A/Beta Carotene (ppm)	0.528	0.501	0.508

**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-21	HT08SOY002-10-22	HT08SOY002-10-23
<b>Location</b>	Mediapolis	Mediapolis	Mediapolis
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1756D	1756E	1756F
<b>Covance LIMS Number</b>	90100107	90100122	90100038
<b>Proximate (%)</b>			
Moisture	8.65	8.80	8.93
Protein	34.6	34.3	33.9
Total Fat	17.4	17.9	18.4
Ash	4.45	4.61	4.59
Carbohydrates	34.9	34.4	34.2
Acid Detergent Fiber (%)	18.4	17.3	14.5
Neutral Detergent Fiber (%)	19.3	19.9	17.5
Phytic Acid (%)	1.10	1.33	1.30
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	23.3	21.5	23.1
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	203	194	203
Delta Tocopherol	61.6	59.8	63.7
Total Tocopherols	288	275	290
<b>Minerals (ppm)</b>			
Iron	72.0	70.1	67.8
<b>Minerals (%)</b>			
Calcium	0.285	0.274	0.267
Magnesium	0.206	0.215	0.207
Phosphorus	0.550	0.563	0.549
Potassium	1.58	1.63	1.60
Sodium	0.0175	0.0257	0.0264

**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-21	HT08SOY002-10-22	HT08SOY002-10-23
<b>Location</b>	Mediapolis	Mediapolis	Mediapolis
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1756D	1756E	1756F
<b>Covance LIMS Number</b>	90100107	90100122	90100038
<b>Amino Acids (%)</b>			
Aspartic Acid	3.91	3.91	3.83
Threonine	1.35	1.37	1.35
Serine	1.73	1.78	1.76
Glutamic Acid	6.01	5.99	5.89
Proline	1.69	1.60	1.57
Glycine	1.53	1.52	1.48
Alanine	1.52	1.51	1.48
Cystine	0.532	0.518	0.509
Valine	1.71	1.67	1.62
Methionine	0.491	0.468	0.479
Isoleucine	1.64	1.60	1.55
Leucine	2.67	2.66	2.61
Tyrosine	1.28	1.26	1.25
Phenylalanine	1.75	1.74	1.71
Lysine	2.24	2.23	2.17
Histidine	0.945	0.932	0.915
Arginine	2.67	2.62	2.58
Tryptophan	0.418	0.402	0.397
*Lectin (H.U./mg)	2.09	1.78	1.16
**Trypsin Inhibitor (TIU/mg)	32.1	31.4	23.1
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.288	0.299	0.317
Stachyose (%)	2.19	2.20	2.24
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	< 10.0	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	< 10.0	< 10.0	< 10.0
Daidzin	556	566	574
Glycitin	323	390	360
Genistin	1100	1110	1050
Total Aglycone Equivalents	1230	1290	1240

**Table 2**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-21	HT08SOY002-10-22	HT08SOY002-10-23
<b>Location</b>	Mediapolis	Mediapolis	Mediapolis
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1756D	1756E	1756F
<b>Covance LIMS Number</b>	90100107	90100122	90100038
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.57	1.60	1.64
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.722	0.747	0.763
18:1 Oleic	4.04	4.13	4.36
18:2 Linoleic	8.78	8.83	9.35
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.27	1.27	1.33
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0526	0.0542	0.0550
20:1 Eicosenoic	0.0293	0.0299	0.0305
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0528	0.0540	0.0560
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	0.0216	0.0241	0.0263
22:6 Docosaheptaenoic	< 0.0200	< 0.0200	< 0.0200
Folic Acid (ppm)	2.69	3.28	2.46
Vitamin B1/Thiamine HCl (ppm)	3.5	3.7	3.0
Vitamin B2/Riboflavin (ppm)	3.33	5.13	5.31
Vitamin K (ppm)	0.248	0.354	0.137
Vitamin A/Beta Carotene (ppm)	0.269	0.355	0.286



**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-01-31	HT08SOY002-01-32	HT08SOY002-01-33
<b>Location</b>	Marcus	Marcus	Marcus
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1747G	1747H	1747I
<b>Covance LIMS Number</b>	90100051	90100043	90100105
<b>Proximate (%)</b>			
Moisture	10.0	10.4	10.2
Protein	34.4	34.3	34.5
Total Fat	17.3	16.6	15.4
Ash	4.13	4.03	4.12
Carbohydrates	34.2	34.7	35.8
Acid Detergent Fiber (%)	15.2	13.6	15.1
Neutral Detergent Fiber (%)	17.8	16.0	18.7
Phytic Acid (%)	0.725	0.703	0.836
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	14.6	11.3	12.4
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	185	167	168
Delta Tocopherol	84.4	81.9	74.4
Total Tocopherols	284	260	255
<b>Minerals (ppm)</b>			
Iron	67.9	68.2	69.0
<b>Minerals (%)</b>			
Calcium	0.208	0.210	0.209
Magnesium	0.181	0.185	0.192
Phosphorus	0.406	0.424	0.477
Potassium	1.53	1.54	1.53
Sodium	0.0125	0.0357	0.0111

**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-01-31	HT08SOY002-01-32	HT08SOY002-01-33
<b>Location</b>	Marcus	Marcus	Marcus
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1747G	1747H	1747I
<b>Covance LIMS Number</b>	90100051	90100043	90100105
<b>Amino Acids (%)</b>			
Aspartic Acid	3.85	3.95	3.86
Threonine	1.36	1.37	1.33
Serine	1.79	1.80	1.71
Glutamic Acid	5.98	6.14	5.97
Proline	1.58	1.62	1.67
Glycine	1.49	1.52	1.50
Alanine	1.48	1.51	1.49
Cystine	0.500	0.494	0.508
Valine	1.67	1.73	1.71
Methionine	0.484	0.483	0.478
Isoleucine	1.58	1.63	1.61
Leucine	2.65	2.71	2.65
Tyrosine	1.26	1.28	1.24
Phenylalanine	1.73	1.77	1.73
Lysine	2.19	2.22	2.21
Histidine	0.930	0.947	0.935
Arginine	2.64	2.69	2.66
Tryptophan	0.383	0.396	0.406
*Lectin (H.U./mg)	1.40	1.22	1.42
**Trypsin Inhibitor (TIU/mg)	31.6	21.2	25.2
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.312	0.315	0.307
Stachyose (%)	2.15	2.09	2.08
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	10.1	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	< 10.0	10.3	< 10.0
Daidzin	1530	1620	1470
Glycitin	350	366	352
Genistin	2090	2150	2140
Total Aglycone Equivalents	2460	2590	2460

**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-01-31	HT08SOY002-01-32	HT08SOY002-01-33
<b>Location</b>	Marcus	Marcus	Marcus
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1747G	1747H	1747I
<b>Covance LIMS Number</b>	90100051	90100043	90100105
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.57	1.49	1.39
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.747	0.708	0.670
18:1 Oleic	3.88	3.64	3.38
18:2 Linoleic	9.08	8.65	8.02
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.37	1.31	1.23
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0529	0.0499	0.0480
20:1 Eicosenoic	0.0257	0.0240	0.0227
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0548	0.0529	0.0507
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	0.0241	< 0.0200	< 0.0200
22:6 Docosaheptaenoic	< 0.0200	< 0.0200	< 0.0200
<b>Folic Acid (ppm)</b>			
Folic Acid (ppm)	2.79	2.59	3.31
<b>Vitamin B1/Thiamine HCl (ppm)</b>			
Vitamin B1/Thiamine HCl (ppm)	1.8	1.9	2.3
<b>Vitamin B2/Riboflavin (ppm)</b>			
Vitamin B2/Riboflavin (ppm)	3.48	5.33	4.29
<b>Vitamin K (ppm)</b>			
Vitamin K (ppm)	< 0.100	< 0.100	0.134
<b>Vitamin A/Beta Carotene (ppm)</b>			
Vitamin A/Beta Carotene (ppm)	< 0.200	< 0.200	< 0.200

**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-02-31	HT08SOY002-02-32	HT08SOY002-02-33
<b>Location</b>	Iowa Falls	Iowa Falls	Iowa Falls
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 Sprayed	FG72 sprayed
<b>BTID No.</b>	1748G	1748H	1748I
<b>Covance LIMS Number</b>	90100087	90300042	90100056
<b>Proximate (%)</b>			
Moisture	10.9	6.51	10.5
Protein	34.3	34.3	35.4
Total Fat	16.7	19.8	16.9
Ash	4.49	4.45	4.35
Carbohydrates	33.6	34.9	32.9
Acid Detergent Fiber (%)	15.5	16.9	14.0
Neutral Detergent Fiber (%)	17.9	18.5	16.4
Phytic Acid (%)	1.33	1.18	1.19
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	13.6	12.2	12.3
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	170	164	164
Delta Tocopherol	75.8	85.7	82.9
Total Tocopherols	259	262	259
<b>Minerals (ppm)</b>			
Iron	69.1	69.7	63.7
<b>Minerals (%)</b>			
Calcium	0.197	0.197	0.187
Magnesium	0.195	0.204	0.194
Phosphorus	0.579	0.546	0.562
Potassium	1.68	1.69	1.65
Sodium	0.0136	< 0.0100	0.0276

**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-02-31</b>	<b>HT08SOY002-02-32</b>	<b>HT08SOY002-02-33</b>
<b>Location</b>	Iowa Falls	Iowa Falls	Iowa Falls
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 Sprayed	FG72 sprayed
<b>BTID No.</b>	1748G	1748H	1748I
<b>Covance LIMS Number</b>	90100087	90300042	90100056
<b>Amino Acids (%)</b>			
Aspartic Acid	3.88	4.13	4.02
Threonine	1.41	1.47	1.45
Serine	1.76	1.86	1.84
Glutamic Acid	5.97	6.41	6.17
Proline	1.68	1.72	1.68
Glycine	1.48	1.59	1.53
Alanine	1.48	1.60	1.52
Cystine	0.528	0.571	0.560
Valine	1.64	1.79	1.66
Methionine	0.489	0.540	0.518
Isoleucine	1.57	1.72	1.60
Leucine	2.64	2.85	2.72
Tyrosine	1.25	1.32	1.29
Phenylalanine	1.77	1.88	1.82
Lysine	2.20	2.34	2.26
Histidine	0.933	0.997	0.961
Arginine	2.62	2.84	2.76
Tryptophan	0.442	0.423	0.400
*Lectin (H.U./mg)	1.09	1.37	1.14
**Trypsin Inhibitor (TIU/mg)	29.0	22.5	31.9
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.310	0.309	0.295
Stachyose (%)	1.95	2.66	2.21
<b>Isoflavones (ppm)</b>			
Daidzein	13.0	< 10.0	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	10.5	< 10.0	< 10.0
Daidzin	1280	682	1200
Glycitin	345	158	330
Genistin	1980	1690	1770
Total Aglycone Equivalents	2260	1570	2050

**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-02-31</b>	<b>HT08SOY002-02-32</b>	<b>HT08SOY002-02-33</b>
<b>Location</b>	Iowa Falls	Iowa Falls	Iowa Falls
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 Sprayed	FG72 sprayed
<b>BTID No.</b>	1748G	1748H	1748I
<b>Covance LIMS Number</b>	90100087	90300042	90100056
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.45	1.99	1.47
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	0.0203	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.701	0.727	0.752
18:1 Oleic	3.66	4.28	4.02
18:2 Linoleic	8.33	10.5	8.47
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.38	1.48	1.41
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0498	0.0524	0.0543
20:1 Eicosenoic	0.0233	0.0303	0.0248
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0515	0.0492	0.0589
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	< 0.0200	0.0245	< 0.0200
22:6 Docosaheptaenoic	< 0.0200	< 0.0200	< 0.0200
Folic Acid (ppm)	2.50	2.23	2.56
Vitamin B1/Thiamine HCl (ppm)	2.3	1.7	2.0
Vitamin B2/Riboflavin (ppm)	3.16	3.75	4.53
Vitamin K (ppm)	0.162	0.109	< 0.100
Vitamin A/Beta Carotene (ppm)	< 0.200	< 0.200	< 0.200

**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-03-31	HT08SOY002-03-32	HT08SOY002-03-33
<b>Location</b>	Glidden	Glidden	Glidden
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1749G	1749H	1749I
<b>Covance LIMS Number</b>	90100024	90100050	90100084
<b>Proximate (%)</b>			
Moisture	10.3	9.83	9.79
Protein	34.7	34.3	34.8
Total Fat	17.2	17.7	17.2
Ash	4.82	5.05	4.87
Carbohydrates	33.0	33.1	33.3
<b>Acid Detergent Fiber (%)</b>			
Acid Detergent Fiber (%)	14.7	15.1	14.9
<b>Neutral Detergent Fiber (%)</b>			
Neutral Detergent Fiber (%)	15.6	16.9	17.5
<b>Phytic Acid (%)</b>			
Phytic Acid (%)	1.40	1.54	1.69
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	16.8	17.7	13.4
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	182	182	169
Delta Tocopherol	77.2	78.3	74.6
Total Tocopherols	276	278	257
<b>Minerals (ppm)</b>			
Iron	78.7	77.6	78.6
<b>Minerals (%)</b>			
Calcium	0.230	0.229	0.225
Magnesium	0.211	0.207	0.212
Phosphorus	0.627	0.678	0.683
Potassium	1.70	1.83	1.81
Sodium	< 0.0100	< 0.0100	< 0.0100

**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-03-31</b>	<b>HT08SOY002-03-32</b>	<b>HT08SOY002-03-33</b>
<b>Location</b>	Glidden	Glidden	Glidden
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1749G	1749H	1749I
<b>Covance LIMS Number</b>	90100024	90100050	90100084
<b>Amino Acids (%)</b>			
Aspartic Acid	4.05	4.00	3.95
Threonine	1.40	1.40	1.39
Serine	1.83	1.86	1.77
Glutamic Acid	6.29	6.19	6.09
Proline	1.67	1.62	1.66
Glycine	1.54	1.53	1.52
Alanine	1.54	1.53	1.52
Cystine	0.567	0.555	0.522
Valine	1.75	1.70	1.72
Methionine	0.507	0.511	0.499
Isoleucine	1.66	1.61	1.62
Leucine	2.75	2.71	2.67
Tyrosine	1.26	1.28	1.25
Phenylalanine	1.80	1.76	1.75
Lysine	2.27	2.25	2.23
Histidine	0.961	0.950	0.947
Arginine	2.73	2.70	2.67
Tryptophan	0.381	0.373	0.404
*Lectin (H.U./mg)	1.43	1.23	0.988
**Trypsin Inhibitor (TIU/mg)	29.8	34.2	21.3
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.356	0.335	0.341
Stachyose (%)	2.60	2.26	2.09
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	< 10.0	11.4
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	10.4	< 10.0	< 10.0
Daidzin	1040	1060	1080
Glycitin	346	351	342
Genistin	1690	1710	1750
Total Aglycone Equivalents	1920	1940	1980



**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-03-31</b>	<b>HT08SOY002-03-32</b>	<b>HT08SOY002-03-33</b>
<b>Location</b>	Glidden	Glidden	Glidden
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1749G	1749H	1749I
<b>Covance LIMS Number</b>	90100024	90100050	90100084
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.51	1.58	1.53
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.745	0.769	0.743
18:1 Oleic	3.97	4.14	4.08
18:2 Linoleic	8.65	9.02	8.63
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.41	1.51	1.44
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0530	0.0552	0.0538
20:1 Eicosenoic	0.0253	0.0268	0.0261
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0541	0.0569	0.0557
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	< 0.0200	0.0232	< 0.0200
22:6 Docosahexaenoic	< 0.0200	< 0.0200	< 0.0200
<b>Folic Acid (ppm)</b>			
Folic Acid (ppm)	2.27	2.68	2.92
<b>Vitamin B1/Thiamine HCl (ppm)</b>			
Vitamin B1/Thiamine HCl (ppm)	1.4	1.3	2.7
<b>Vitamin B2/Riboflavin (ppm)</b>			
Vitamin B2/Riboflavin (ppm)	3.51	5.29	3.96
<b>Vitamin K (ppm)</b>			
Vitamin K (ppm)	< 0.100	0.157	0.156
<b>Vitamin A/Beta Carotene (ppm)</b>			
Vitamin A/Beta Carotene (ppm)	< 0.200	< 0.200	< 0.200

**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-04-31	HT08SOY002-04-32	HT08SOY002-04-33
<b>Location</b>	Perry	Perry	Perry
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1750G	1750H	1750I
<b>Covance LIMS Number</b>	90100114	90100109	90100103
<b>Proximate (%)</b>			
Moisture	9.15	9.53	9.66
Protein	33.7	33.0	34.1
Total Fat	17.5	16.6	15.8
Ash	4.78	4.68	4.59
Carbohydrates	34.9	36.2	35.9
Acid Detergent Fiber (%)	17.2	16.9	17.6
Neutral Detergent Fiber (%)	18.2	19.1	19.5
Phytic Acid (%)	1.34	1.16	1.12
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	20.8	18.7	18.4
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	180	176	175
Delta Tocopherol	61.2	66.6	61.6
Total Tocopherols	262	261	255
<b>Minerals (ppm)</b>			
Iron	84.1	73.9	77.2
<b>Minerals (%)</b>			
Calcium	0.248	0.237	0.261
Magnesium	0.208	0.202	0.223
Phosphorus	0.572	0.555	0.566
Potassium	1.68	1.59	1.58
Sodium	0.0115	0.0238	0.0300

**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-04-31</b>	<b>HT08SOY002-04-32</b>	<b>HT08SOY002-04-33</b>
<b>Location</b>	Perry	Perry	Perry
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1750G	1750H	1750I
<b>Covance LIMS Number</b>	90100114	90100109	90100103
<b>Amino Acids (%)</b>			
Aspartic Acid	3.78	3.92	3.96
Threonine	1.32	1.36	1.37
Serine	1.74	1.77	1.76
Glutamic Acid	5.87	6.09	6.10
Proline	1.63	1.70	1.71
Glycine	1.48	1.51	1.52
Alanine	1.49	1.52	1.53
Cystine	0.530	0.515	0.547
Valine	1.66	1.72	1.73
Methionine	0.499	0.479	0.495
Isoleucine	1.59	1.62	1.64
Leucine	2.61	2.67	2.69
Tyrosine	1.18	1.19	1.26
Phenylalanine	1.69	1.75	1.75
Lysine	2.18	2.23	2.25
Histidine	0.919	0.944	0.952
Arginine	2.55	2.64	2.70
Tryptophan	0.424	0.416	0.410
<b>*Lectin (H.U./mg)</b>	1.74	1.74	0.823
<b>**Trypsin Inhibitor (TIU/mg)</b>	32.1	34.6	35.4
<b>*H.U. - Hemagglutinating Unit</b>			
<b>**TIU - Trypsin Inhibitor Unit</b>			
Raffinose (%)	0.388	0.382	0.354
Stachyose (%)	2.10	2.27	2.07
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	< 10.0	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	11.0	< 10.0	< 10.0
Daidzin	860	1040	929
Glycitin	387	394	367
Genistin	1500	1770	1510
Total Aglycone Equivalents	1720	1990	1740

**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-04-31</b>	<b>HT08SOY002-04-32</b>	<b>HT08SOY002-04-33</b>
<b>Location</b>	<b>Perry</b>	<b>Perry</b>	<b>Perry</b>
<b>Regimen</b>	<b>C</b>	<b>C</b>	<b>C</b>
<b>Description</b>	<b>FG72 sprayed</b>	<b>FG72 sprayed</b>	<b>FG72 sprayed</b>
<b>BTID No.</b>	<b>1750G</b>	<b>1750H</b>	<b>1750I</b>
<b>Covance LIMS Number</b>	<b>90100114</b>	<b>90100109</b>	<b>90100103</b>
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.56	1.50	1.45
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.804	0.746	0.725
18:1 Oleic	4.00	3.80	3.6
18:2 Linoleic	8.96	8.53	8.25
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.38	1.31	1.26
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0559	0.0534	0.0517
20:1 Eicosenoic	0.0272	0.0271	0.0259
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0536	0.0524	0.0515
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	0.0204	< 0.0200	< 0.0200
22:6 Docosahexaenoic	< 0.0200	< 0.0200	< 0.0200
<b>Folic Acid (ppm)</b>			
Folic Acid (ppm)	2.81	3.04	2.74
<b>Vitamin B1/Thiamine HCl (ppm)</b>			
Vitamin B1/Thiamine HCl (ppm)	3.4	3.1	3.1
<b>Vitamin B2/Riboflavin (ppm)</b>			
Vitamin B2/Riboflavin (ppm)	4.40	5.60	3.94
<b>Vitamin K (ppm)</b>			
Vitamin K (ppm)	0.229	0.191	0.215
<b>Vitamin A/Beta Carotene (ppm)</b>			
Vitamin A/Beta Carotene (ppm)	0.248	0.217	< 0.200

**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-05-31	HT08SOY002-05-32	HT08SOY002-05-33
<b>Location</b>	Adel	Adel	Adel
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1751G	1751H	1751I
<b>Covance LIMS Number</b>	90100093	90100121	90100054
<b>Proximate (%)</b>			
Moisture	8.94	9.42	9.05
Protein	34.3	34.3	34.3
Total Fat	17.0	16.7	18.3
Ash	4.87	4.74	4.86
Carbohydrates	34.9	34.8	33.5
Acid Detergent Fiber (%)	16.7	17.5	14.0
Neutral Detergent Fiber (%)	19.7	18.6	16.3
Phytic Acid (%)	1.40	1.32	1.30
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	15.5	16.7	14.5
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	177	178	173
Delta Tocopherol	63.2	64.2	65.1
Total Tocopherols	256	259	253
<b>Minerals (ppm)</b>			
Iron	73.1	70.7	74.0
<b>Minerals (%)</b>			
Calcium	0.243	0.237	0.232
Magnesium	0.214	0.211	0.211
Phosphorus	0.613	0.580	0.611
Potassium	1.81	1.65	1.79
Sodium	< 0.0100	0.0260	0.0172

**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-05-31</b>	<b>HT08SOY002-05-32</b>	<b>HT08SOY002-05-33</b>
<b>Location</b>	Adel	Adel	Adel
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1751G	1751H	1751I
<b>Covance LIMS Number</b>	90100093	90100121	90100054
<b>Amino Acids (%)</b>			
Aspartic Acid	3.95	3.91	3.86
Threonine	1.38	1.35	1.40
Serine	1.67	1.78	1.78
Glutamic Acid	6.10	6.08	5.93
Proline	1.62	1.63	1.63
Glycine	1.52	1.51	1.49
Alanine	1.53	1.51	1.48
Cystine	0.555	0.507	0.539
Valine	1.76	1.69	1.61
Methionine	0.509	0.470	0.493
Isoleucine	1.69	1.61	1.56
Leucine	2.71	2.66	2.63
Tyrosine	1.23	1.22	1.25
Phenylalanine	1.81	1.74	1.74
Lysine	2.25	2.21	2.19
Histidine	0.952	0.935	0.927
Arginine	2.62	2.61	2.62
Tryptophan	0.438	0.360	0.393
*Lectin (H.U./mg)	0.799	1.88	1.01
**Trypsin Inhibitor (TIU/mg)	38.9	23.9	39.5
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.341	0.386	0.398
Stachyose (%)	1.88	2.28	2.37
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	< 10.0	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	10.1	11.0	10.5
Daidzin	950	975	1070
Glycitin	394	394	390
Genistin	1530	1570	1650
Total Aglycone Equivalents	1800	1840	1940

**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-05-31</b>	<b>HT08SOY002-05-32</b>	<b>HT08SOY002-05-33</b>
<b>Location</b>	<b>Adel</b>	<b>Adel</b>	<b>Adel</b>
<b>Regimen</b>	<b>C</b>	<b>C</b>	<b>C</b>
<b>Description</b>	<b>FG72 sprayed</b>	<b>FG72 sprayed</b>	<b>FG72 sprayed</b>
<b>BTID No.</b>	<b>1751G</b>	<b>1751H</b>	<b>1751I</b>
<b>Covance LIMS Number</b>	<b>90100093</b>	<b>90100121</b>	<b>90100054</b>
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.46	1.45	1.63
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.707	0.720	0.791
18:1 Oleic	3.78	3.77	4.31
18:2 Linoleic	8.28	8.20	9.34
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.25	1.21	1.39
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0503	0.0502	0.0555
20:1 Eicosenoic	0.0251	0.0252	0.0278
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0501	0.0502	0.0564
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	0.0238	< 0.0200	0.0207
22:6 Docosahexaenoic	< 0.0200	< 0.0200	< 0.0200
<b>Folic Acid (ppm)</b>			
Folic Acid (ppm)	2.88	3.09	2.66
<b>Vitamin B1/Thiamine HCl (ppm)</b>			
Vitamin B1/Thiamine HCl (ppm)	3.7	3.7	3.7
<b>Vitamin B2/Riboflavin (ppm)</b>			
Vitamin B2/Riboflavin (ppm)	4.06	4.03	4.03
<b>Vitamin K (ppm)</b>			
Vitamin K (ppm)	0.175	0.250	0.142
<b>Vitamin A/Beta Carotene (ppm)</b>			
Vitamin A/Beta Carotene (ppm)	< 0.200	< 0.200	< 0.200

**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-06-31</b>	<b>HT08SOY002-06-32</b>	<b>HT08SOY002-06-33</b>
<b>Location</b>	Winterset	Winterset	Winterset
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1752G	1752H	1752I
<b>Covance LIMS Number</b>	90100133	90100112	90100058
<b>Proximate (%)</b>			
Moisture	9.83	9.38	9.37
Protein	34.9	35.3	35.9
Total Fat	16.1	15.8	17.3
Ash	4.58	4.46	4.51
Carbohydrates	34.6	35.1	32.9
Acid Detergent Fiber (%)	18.9	17.3	14.5
Neutral Detergent Fiber (%)	19.1	18.4	16.5
Phytic Acid (%)	1.21	1.33	1.12
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	12.9	15.0	15.1
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	167	174	177
Delta Tocopherol	64.4	68.7	70.3
Total Tocopherols	244	258	262
<b>Minerals (ppm)</b>			
Iron	76.2	74.3	74.3
<b>Minerals (%)</b>			
Calcium	0.227	0.225	0.227
Magnesium	0.207	0.204	0.201
Phosphorus	0.547	0.562	0.589
Potassium	1.69	1.62	1.77
Sodium	< 0.0100	0.0118	< 0.0100



**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-06-31	HT08SOY002-06-32	HT08SOY002-06-33
<b>Location</b>	Winterset	Winterset	Winterset
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1752G	1752H	1752I
<b>Covance LIMS Number</b>	90100133	90100112	90100058
<b>Amino Acids (%)</b>			
Aspartic Acid	4.10	4.07	4.10
Threonine	1.42	1.41	1.47
Serine	1.90	1.84	1.87
Glutamic Acid	6.34	6.32	6.32
Proline	1.70	1.74	1.69
Glycine	1.57	1.55	1.56
Alanine	1.55	1.55	1.55
Cystine	0.527	0.441	0.544
Valine	1.72	1.75	1.70
Methionine	0.488	0.418	0.506
Isoleucine	1.64	1.66	1.63
Leucine	2.77	2.76	2.79
Tyrosine	1.31	1.26	1.31
Phenylalanine	1.82	1.81	1.86
Lysine	2.31	2.29	2.30
Histidine	0.979	0.973	0.980
Arginine	2.75	2.76	2.79
Tryptophan	0.368	0.420	0.425
*Lectin (H.U./mg)	1.76	1.27	2.38
**Trypsin Inhibitor (TIU/mg)	27.7	30.8	33.2
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.281	0.292	0.287
Stachyose (%)	2.23	2.31	2.23
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	< 10.0	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	< 10.0	< 10.0	< 10.0
Daidzin	888	962	898
Glycitin	353	331	341
Genistin	1500	1580	1430
Total Aglycone Equivalents	1700	1790	1660

**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-06-31	HT08SOY002-06-32	HT08SOY002-06-33
<b>Location</b>	Winterset	Winterset	Winterset
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1752G	1752H	1752I
<b>Covance LIMS Number</b>	90100133	90100112	90100058
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.48	1.40	1.56
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.683	0.653	0.720
18:1 Oleic	3.61	3.63	3.98
18:2 Linoleic	8.29	7.79	8.79
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.31	1.26	1.42
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0499	0.0472	0.0525
20:1 Eicosenoic	0.0255	0.0240	0.0268
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0525	0.0491	0.0543
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	< 0.0200	< 0.0200	< 0.0200
22:6 Docosahexaenoic	< 0.0200	< 0.0200	< 0.0200
<b>Folic Acid (ppm)</b>			
Folic Acid (ppm)	2.98	3.00	2.78
<b>Vitamin B1/Thiamine HCl (ppm)</b>			
Vitamin B1/Thiamine HCl (ppm)	3.3	3.4	3.9
<b>Vitamin B2/Riboflavin (ppm)</b>			
Vitamin B2/Riboflavin (ppm)	5.39	3.04	4.33
<b>Vitamin K (ppm)</b>			
Vitamin K (ppm)	0.234	0.195	0.137
<b>Vitamin A/Beta Carotene (ppm)</b>			
Vitamin A/Beta Carotene (ppm)	< 0.200	< 0.200	< 0.200

**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-31	HT08SOY002-07-32	HT08SOY002-07-33
<b>Location</b>	Osborn	Osborn	Osborn
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1753G	1753H	1753I
<b>Covance LIMS Number</b>	90100055	90100067	90100132
<b>Proximate (%)</b>			
Moisture	9.23	9.10	9.45
Protein	33.2	33.4	33.9
Total Fat	19.1	18.8	16.7
Ash	4.59	4.42	4.49
Carbohydrates	33.9	34.3	35.5
Acid Detergent Fiber (%)	15.3	15.2	19.0
Neutral Detergent Fiber (%)	17.6	17.3	20.6
Phytic Acid (%)	1.12	1.24	1.18
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	25.5	23.9	20.5
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	195	201	191
Delta Tocopherol	58.0	64.5	66.6
Total Tocopherols	279	289	278
<b>Minerals (ppm)</b>			
Iron	71.3	71.1	71.4
<b>Minerals (%)</b>			
Calcium	0.251	0.238	0.239
Magnesium	0.208	0.206	0.208
Phosphorus	0.547	0.552	0.532
Potassium	1.72	1.74	1.63
Sodium	0.0197	< 0.0100	0.0168

**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-31	HT08SOY002-07-32	HT08SOY002-07-33
<b>Location</b>	Osborn	Osborn	Osborn
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1753G	1753H	1753I
<b>Covance LIMS Number</b>	90100055	90100067	90100132
<b>Amino Acids (%)</b>			
Aspartic Acid	3.84	3.84	4.02
Threonine	1.39	1.40	1.39
Serine	1.73	1.77	1.86
Glutamic Acid	5.84	5.83	6.19
Proline	1.58	1.64	1.65
Glycine	1.48	1.47	1.52
Alanine	1.49	1.49	1.52
Cystine	0.558	0.549	0.508
Valine	1.65	1.61	1.67
Methionine	0.494	0.476	0.470
Isoleucine	1.60	1.56	1.61
Leucine	2.64	2.63	2.71
Tyrosine	1.25	1.24	1.29
Phenylalanine	1.75	1.76	1.78
Lysine	2.20	2.20	2.24
Histidine	0.924	0.924	0.947
Arginine	2.58	2.58	2.69
Tryptophan	0.399	0.405	0.357
*Lectin (H.U./mg)	1.34	1.67	1.10
**Trypsin Inhibitor (TIU/mg)	37.9	37.7	32.4
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.344	0.411	0.301
Stachyose (%)	2.41	2.47	2.23
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	< 10.0	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	< 10.0	< 10.0	< 10.0
Daidzin	620	740	653
Glycitin	340	417	355
Genistin	1270	1480	1310
Total Aglycone Equivalents	1390	1640	1440

**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-07-31</b>	<b>HT08SOY002-07-32</b>	<b>HT08SOY002-07-33</b>
<b>Location</b>	Osborn	Osborn	Osborn
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1753G	1753H	1753I
<b>Covance LIMS Number</b>	90100055	90100067	90100132
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.76	1.72	1.53
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	0.0204	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.824	0.777	0.711
18:1 Oleic	4.33	4.29	3.95
18:2 Linoleic	9.87	9.68	8.49
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.41	1.40	1.26
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0587	0.0558	0.0519
20:1 Eicosenoic	0.0310	0.0307	0.0275
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0587	0.0555	0.0521
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	0.0236	0.0243	0.0218
22:6 Docosaheptaenoic	< 0.0200	< 0.0200	< 0.0200
<b>Folic Acid (ppm)</b>			
Folic Acid (ppm)	2.49	2.82	2.99
<b>Vitamin B1/Thiamine HCl (ppm)</b>			
Vitamin B1/Thiamine HCl (ppm)	2.9	3.1	2.8
<b>Vitamin B2/Riboflavin (ppm)</b>			
Vitamin B2/Riboflavin (ppm)	4.76	4.09	5.57
<b>Vitamin K (ppm)</b>			
Vitamin K (ppm)	0.218	0.217	0.291
<b>Vitamin A/Beta Carotene (ppm)</b>			
Vitamin A/Beta Carotene (ppm)	0.228	0.217	0.266

**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-08-31	HT08SOY002-08-32	HT08SOY002-08-33
<b>Location</b>	Fithian	Fithian	Fithian
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1754G	1754H	1754I
<b>Covance LIMS Number</b>	90100117	90100110	90100032
<b>Proximate (%)</b>			
Moisture	10.0	9.33	10.0
Protein	34.5	35.6	33.1
Total Fat	18.4	17.9	19.4
Ash	4.23	4.36	4.63
Carbohydrates	32.9	32.8	32.9
Acid Detergent Fiber (%)	16.2	16.4	15.0
Neutral Detergent Fiber (%)	17.3	17.0	17.4
Phytic Acid (%)	1.11	1.03	1.28
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	21.7	20.2	21.3
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	181	178	194
Delta Tocopherol	62.6	63.0	68.5
Total Tocopherols	265	261	284
<b>Minerals (ppm)</b>			
Iron	69.4	66.9	71.9
<b>Minerals (%)</b>			
Calcium	0.227	0.216	0.233
Magnesium	0.203	0.195	0.211
Phosphorus	0.510	0.508	0.579
Potassium	1.55	1.53	1.67
Sodium	0.0175	0.0134	0.0131

**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-08-31	HT08SOY002-08-32	HT08SOY002-08-33
<b>Location</b>	Fithian	Fithian	Fithian
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1754G	1754H	1754I
<b>Covance LIMS Number</b>	90100117	90100110	90100032
<b>Amino Acids (%)</b>			
Aspartic Acid	4.04	4.09	3.73
Threonine	1.41	1.39	1.32
Serine	1.83	1.83	1.73
Glutamic Acid	6.27	6.34	5.72
Proline	1.70	1.76	1.56
Glycine	1.55	1.55	1.44
Alanine	1.55	1.56	1.44
Cystine	0.534	0.545	0.531
Valine	1.73	1.77	1.59
Methionine	0.485	0.508	0.470
Isoleucine	1.65	1.69	1.54
Leucine	2.75	2.80	2.56
Tyrosine	1.26	1.30	1.22
Phenylalanine	1.80	1.83	1.65
Lysine	2.28	2.29	2.10
Histidine	0.966	0.977	0.883
Arginine	2.76	2.81	2.47
Tryptophan	0.414	0.430	0.361
*Lectin (H.U./mg)	2.06	1.35	1.65
**Trypsin Inhibitor (TIU/mg)	34.8	26.1	29.0
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.455	0.452	0.460
Stachyose (%)	2.32	2.27	2.42
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	< 10.0	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	< 10.0	< 10.0	11.0
Daidzin	812	777	875
Glycitin	377	301	428
Genistin	1440	1370	1500
Total Aglycone Equivalents	1640	1520	1760

**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-08-31</b>	<b>HT08SOY002-08-32</b>	<b>HT08SOY002-08-33</b>
<b>Location</b>	Fithian	Fithian	Fithian
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1754G	1754H	1754I
<b>Covance LIMS Number</b>	90100117	90100110	90100032
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.66	1.64	1.76
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.765	0.769	0.789
18:1 Oleic	4.24	4.32	4.46
18:2 Linoleic	9.28	9.28	9.95
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.29	1.28	1.40
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0546	0.0552	0.0567
20:1 Eicosenoic	0.0310	0.0301	0.0321
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0557	0.0557	0.0580
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	< 0.0200	< 0.0200	0.0218
22:6 Docosaheptaenoic	< 0.0200	< 0.0200	< 0.0200
<b>Folic Acid (ppm)</b>			
Folic Acid (ppm)	2.89	2.98	2.28
<b>Vitamin B1/Thiamine HCl (ppm)</b>			
Vitamin B1/Thiamine HCl (ppm)	3.2	3.3	2.6
<b>Vitamin B2/Riboflavin (ppm)</b>			
Vitamin B2/Riboflavin (ppm)	3.43	5.49	4.15
<b>Vitamin K (ppm)</b>			
Vitamin K (ppm)	0.263	0.203	0.134
<b>Vitamin A/Beta Carotene (ppm)</b>			
Vitamin A/Beta Carotene (ppm)	0.380	0.373	0.353



**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-09-31	HT08SOY002-09-32	HT08SOY002-09-33
<b>Location</b>	Sharpsville	Sharpsville	Sharpsville
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1755G	1755H	1755I
<b>Covance LIMS Number</b>	90100120	90100125	90100113
<b>Proximate (%)</b>			
Moisture	8.57	8.11	8.50
Protein	34.5	36.2	35.6
Total Fat	18.1	17.1	17.9
Ash	4.73	4.51	5.20
Carbohydrates	34.1	34.1	32.8
Acid Detergent Fiber (%)	17.7	17.7	19.6
Neutral Detergent Fiber (%)	19.4	20.8	19.3
Phytic Acid (%)	1.29	1.21	1.36
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	30.1	26.9	28.2
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	183	179	184
Delta Tocopherol	50.2	49.7	53.8
Total Tocopherols	263	256	266
<b>Minerals (ppm)</b>			
Iron	86.5	77.9	165 <sup>1</sup>
<b>Minerals (%)</b>			
Calcium	0.255	0.245	0.260
Magnesium	0.200	0.203	0.205
Phosphorus	0.553	0.556	0.572
Potassium	1.70	1.76	1.69
Sodium	< 0.0100	< 0.0100	< 0.0100

<sup>1</sup> Confirmed by retest.

**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-09-31	HT08SOY002-09-32	HT08SOY002-09-33
<b>Location</b>	Sharpsville	Sharpsville	Sharpsville
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1755G	1755H	1755I
<b>Covance LIMS Number</b>	90100120	90100125	90100113
<b>Amino Acids (%)</b>			
Aspartic Acid	3.78	4.14	4.02
Threonine	1.33	1.43	1.40
Serine	1.75	1.89	1.81
Glutamic Acid	5.80	6.40	6.23
Proline	1.57	1.71	1.71
Glycine	1.50	1.59	1.55
Alanine	1.48	1.58	1.54
Cystine	0.510	0.553	0.531
Valine	1.63	1.76	1.74
Methionine	0.466	0.510	0.501
Isoleucine	1.56	1.69	1.66
Leucine	2.58	2.79	2.72
Tyrosine	1.25	1.34	1.29
Phenylalanine	1.69	1.85	1.78
Lysine	2.18	2.33	2.28
Histidine	0.908	0.977	0.953
Arginine	2.53	2.80	2.73
Tryptophan	0.384	0.397	0.418
*Lectin (H.U./mg)	2.05	1.12	1.45
**Trypsin Inhibitor (TIU/mg)	32.1	23.3	33.5
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.332	0.326	0.332
Stachyose (%)	2.48	2.53	2.39
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	< 10.0	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	< 10.0	< 10.0	< 10.0
Daidzin	437	368	461
Glycitin	450	369	402
Genistin	713	560	749
Total Aglycone Equivalents	999	810	1010

**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-09-31</b>	<b>HT08SOY002-09-32</b>	<b>HT08SOY002-09-33</b>
<b>Location</b>	Sharpsville	Sharpsville	Sharpsville
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1755G	1755H	1755I
<b>Covance LIMS Number</b>	90100120	90100125	90100113
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.57	1.49	1.57
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.837	0.827	0.847
18:1 Oleic	4.42	4.28	4.44
18:2 Linoleic	8.81	8.33	8.78
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.24	1.18	1.24
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0615	0.0620	0.0621
20:1 Eicosenoic	0.0326	0.0315	0.0316
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0586	0.0572	0.0587
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	0.0293	0.0271	0.0271
22:6 Docosaheptaenoic	< 0.0200	< 0.0200	< 0.0200
<b>Folic Acid (ppm)</b>			
Folic Acid (ppm)	3.49	3.42	3.26
<b>Vitamin B1/Thiamine HCl (ppm)</b>			
Vitamin B1/Thiamine HCl (ppm)	4.0	4.0	4.3
<b>Vitamin B2/Riboflavin (ppm)</b>			
Vitamin B2/Riboflavin (ppm)	3.77	4.85	3.78
<b>Vitamin K (ppm)</b>			
Vitamin K (ppm)	0.398	0.350	0.318
<b>Vitamin A/Beta Carotene (ppm)</b>			
Vitamin A/Beta Carotene (ppm)	0.495	0.460	0.518

**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-31	HT08SOY002-10-32	HT08SOY002-10-33
<b>Location</b>	Mediapolis	Mediapolis	Mediapolis
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1756G	1756H	1756I
<b>Covance LIMS Number</b>	90100045	90100128	90100047
<b>Proximate (%)</b>			
Moisture	9.67	9.18	9.71
Protein	34.8	33.9	35.1
Total Fat	17.6	17.5	18.6
Ash	4.57	4.70	4.65
Carbohydrates	33.4	34.7	31.9
Acid Detergent Fiber (%)	15.3	19.1	14.9
Neutral Detergent Fiber (%)	18.4	20.9	17.2
Phytic Acid (%)	1.21	1.33	1.30
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	23.7	23.2	25.9
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	184	183	193
Delta Tocopherol	56.7	54.9	60.5
Total Tocopherols	264	261	279
<b>Minerals (ppm)</b>			
Iron	71.3	70.6	71.0
<b>Minerals (%)</b>			
Calcium	0.281	0.278	0.279
Magnesium	0.211	0.211	0.213
Phosphorus	0.593	0.563	0.600
Potassium	1.66	1.66	1.71
Sodium	0.0170	0.0119	0.0129

**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-10-31</b>	<b>HT08SOY002-10-32</b>	<b>HT08SOY002-10-33</b>
<b>Location</b>	Mediapolis	Mediapolis	Mediapolis
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1756G	1756H	1756I
<b>Covance LIMS Number</b>	90100045	90100128	90100047
<b>Amino Acids (%)</b>			
Aspartic Acid	4.00	3.76	4.07
Threonine	1.39	1.31	1.42
Serine	1.82	1.77	1.88
Glutamic Acid	6.18	5.76	6.28
Proline	1.59	1.50	1.65
Glycine	1.54	1.48	1.56
Alanine	1.54	1.46	1.55
Cystine	0.551	0.518	0.554
Valine	1.73	1.59	1.71
Methionine	0.507	0.466	0.514
Isoleucine	1.65	1.52	1.64
Leucine	2.72	2.55	2.75
Tyrosine	1.30	1.22	1.31
Phenylalanine	1.77	1.67	1.79
Lysine	2.27	2.15	2.29
Histidine	0.956	0.898	0.962
Arginine	2.69	2.50	2.75
Tryptophan	0.392	0.354	0.377
<b>*Lectin (H.U./mg)</b>	1.29	0.956	1.22
<b>**Trypsin Inhibitor (TIU/mg)</b>	31.8	25.6	33.5
<b>*H.U. - Hemagglutinating Unit</b>			
<b>**TIU - Trypsin Inhibitor Unit</b>			
Raffinose (%)	0.307	0.268	0.315
Stachyose (%)	2.26	2.09	2.20
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	< 10.0	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	< 10.0	< 10.0	< 10.0
Daidzin	545	547	554
Glycitin	377	403	354
Genistin	1020	1050	1030
Total Aglycone Equivalents	1210	1250	1210

**Table 3**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-10-31</b>	<b>HT08SOY002-10-32</b>	<b>HT08SOY002-10-33</b>
<b>Location</b>	Mediapolis	Mediapolis	Mediapolis
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1756G	1756H	1756I
<b>Covance LIMS Number</b>	90100045	90100128	90100047
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.60	1.57	1.69
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.758	0.737	0.790
18:1 Oleic	4.14	3.98	4.44
18:2 Linoleic	9.04	9.04	9.59
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.29	1.30	1.40
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0549	0.0536	0.0575
20:1 Eicosenoic	0.0297	0.0307	0.0313
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0548	0.0534	0.0590
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	0.0281	0.0237	0.0288
22:6 Docosahexaenoic	< 0.0200	< 0.0200	< 0.0200
<b>Folic Acid (ppm)</b>			
Folic Acid (ppm)	2.56	2.88	2.95
<b>Vitamin B1/Thiamine HCl (ppm)</b>			
Vitamin B1/Thiamine HCl (ppm)	2.2	2.7	1.9
<b>Vitamin B2/Riboflavin (ppm)</b>			
Vitamin B2/Riboflavin (ppm)	4.19	4.83	5.48
<b>Vitamin K (ppm)</b>			
Vitamin K (ppm)	0.154	0.294	0.167
<b>Vitamin A/Beta Carotene (ppm)</b>			
Vitamin A/Beta Carotene (ppm)	0.327	0.373	0.372

**Table 4**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen D**

<b>Bayer Sample Number ID</b>	HT08SOY002-01-41	HT08SOY002-02-41	HT08SOY002-03-41
<b>Location</b>	Marcus	Iowa Falls	Glidden
<b>Regimen</b>	D	D	D
<b>Description</b>	2686-6	2686-6	2686-6
<b>BTID No.</b>	1747J	1748J	1749J
<b>Covance LIMS Number</b>	90100053	90100124	90100068
<b>Proximate (%)</b>			
Moisture	9.67	10.4	9.78
Protein	35.8	32.1	33.4
Total Fat	18.3	16.5	18.6
Ash	4.46	4.38	4.83
Carbohydrates	31.8	36.6	33.4
Acid Detergent Fiber (%)	15.2	16.2	15.2
Neutral Detergent Fiber (%)	15.4	18.7	17.2
Phytic Acid (%)	0.908	1.04	1.35
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	12.3	12.4	14.0
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	147	149	167
Delta Tocopherol	86.8	73.2	73.4
Total Tocopherols	246	235	254
<b>Minerals (ppm)</b>			
Iron	59.7	59.1	73.3
<b>Minerals (%)</b>			
Calcium	0.241	0.250	0.265
Magnesium	0.210	0.223	0.232
Phosphorus	0.473	0.471	0.586
Potassium	1.66	1.66	1.80
Sodium	0.0103	0.0133	< 0.0100

**Table 4**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen D**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-01-41</b>	<b>HT08SOY002-02-41</b>	<b>HT08SOY002-03-41</b>
<b>Location</b>	Marcus	Iowa Falls	Glidden
<b>Regimen</b>	D	D	D
<b>Description</b>	2686-6	2686-6	2686-6
<b>BTID No.</b>	1747J	1748J	1749J
<b>Covance LIMS Number</b>	90100053	90100124	90100068
<b>Amino Acids (%)</b>			
Aspartic Acid	4.13	3.80	3.85
Threonine	1.46	1.36	1.40
Serine	1.92	1.76	1.73
Glutamic Acid	6.50	5.88	5.89
Proline	1.73	1.61	1.62
Glycine	1.56	1.43	1.46
Alanine	1.57	1.46	1.49
Cystine	0.539	0.529	0.568
Valine	1.73	1.58	1.64
Methionine	0.517	0.486	0.516
Isoleucine	1.66	1.52	1.61
Leucine	2.80	2.57	2.63
Tyrosine	1.34	1.22	1.24
Phenylalanine	1.83	1.68	1.71
Lysine	2.34	2.16	2.24
Histidine	0.955	0.874	0.897
Arginine	2.82	2.53	2.58
Tryptophan	0.423	0.385	0.434
*Lectin (H.U./mg)	1.74	1.37	2.23
**Trypsin Inhibitor (TIU/mg)	54.3	31.3	37.6
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.365	0.401	0.396
Stachyose (%)	2.67	2.51	2.31
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	12.5	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	< 10.0	18.5	13.9
Daidzin	1180	1410	1050
Glycitin	135	156	184
Genistin	2240	2950	2330
Total Aglycone Equivalents	2210	2840	2230



**Table 4**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen D**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-01-41</b>	<b>HT08SOY002-02-41</b>	<b>HT08SOY002-03-41</b>
<b>Location</b>	Marcus	Iowa Falls	Glidden
<b>Regimen</b>	D	D	D
<b>Description</b>	2686-6	2686-6	2686-6
<b>BTID No.</b>	1747J	1748J	1749J
<b>Covance LIMS Number</b>	90100053	90100124	90100068
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.82	1.65	1.84
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	0.0200	< 0.0200	0.0207
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.622	0.583	0.690
18:1 Oleic	4.00	3.45	3.88
18:2 Linoleic	9.67	8.70	9.73
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.57	1.39	1.54
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0449	0.0409	0.0492
20:1 Eicosenoic	0.0259	0.0240	0.0274
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0475	0.0410	0.0487
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	0.0256	< 0.0200	< 0.0200
22:6 Docosaheptaenoic	< 0.0200	< 0.0200	< 0.0200
<b>Folic Acid (ppm)</b>			
Folic Acid (ppm)	3.19	2.82	2.68
<b>Vitamin B1/Thiamine HCl (ppm)</b>			
Vitamin B1/Thiamine HCl (ppm)	1.9	2.6	2.8
<b>Vitamin B2/Riboflavin (ppm)</b>			
Vitamin B2/Riboflavin (ppm)	3.07	4.02	3.37
<b>Vitamin K (ppm)</b>			
Vitamin K (ppm)	< 0.100	0.132	0.166
<b>Vitamin A/Beta Carotene (ppm)</b>			
Vitamin A/Beta Carotene (ppm)	< 0.200	< 0.200	< 0.200

**Table 4**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen D**

<b>Bayer Sample Number ID</b>	HT08SOY002-04-41	HT08SOY002-05-41	HT08SOY002-06-41
<b>Location</b>	Perry	Adel	Winterset
<b>Regimen</b>	D	D	D
<b>Description</b>	2686-6	2686-6	2686-6
<b>BTID No.</b>	1750J	1751J	1752J
<b>Covance LIMS Number</b>	90100083	90100106	90100071
<b>Proximate (%)</b>			
Moisture	9.86	9.07	10.0
Protein	33.4	34.4	36.1
Total Fat	18.4	16.0	16.9
Ash	4.74	4.51	4.72
Carbohydrates	33.6	36.0	32.3
Acid Detergent Fiber (%)	15.6	19.6	14.5
Neutral Detergent Fiber (%)	17.9	20.7	15.9
Phytic Acid (%)	1.25	0.877	1.23
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	15.1	12.3	11.0
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	164	156	140
Delta Tocopherol	73.0	64.4	61.8
Total Tocopherols	252	233	213
<b>Minerals (ppm)</b>			
Iron	64.9	67.3	65.4
<b>Minerals (%)</b>			
Calcium	0.287	0.255	0.264
Magnesium	0.232	0.224	0.215
Phosphorus	0.537	0.515	0.554
Potassium	1.73	1.67	1.77
Sodium	< 0.0100	0.0237	< 0.0100

**Table 4**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen D**

<b>Bayer Sample Number ID</b>	HT08SOY002-04-41	HT08SOY002-05-41	HT08SOY002-06-41
<b>Location</b>	Perry	Adel	Winterset
<b>Regimen</b>	D	D	D
<b>Description</b>	2686-6	2686-6	2686-6
<b>BTID No.</b>	1750J	1751J	1752J
<b>Covance LIMS Number</b>	90100083	90100106	90100071
<b>Amino Acids (%)</b>			
Aspartic Acid	3.87	4.04	4.20
Threonine	1.40	1.40	1.42
Serine	1.76	1.80	1.80
Glutamic Acid	5.97	6.26	6.51
Proline	1.64	1.71	1.75
Glycine	1.46	1.53	1.58
Alanine	1.49	1.55	1.60
Cystine	0.518	0.524	0.527
Valine	1.62	1.74	1.83
Methionine	0.496	0.499	0.509
Isoleucine	1.55	1.68	1.76
Leucine	2.60	2.73	2.82
Tyrosine	1.25	1.27	1.30
Phenylalanine	1.70	1.78	1.84
Lysine	2.20	2.30	2.38
Histidine	0.896	0.937	0.964
Arginine	2.58	2.68	2.81
Tryptophan	0.445	0.451	0.485
*Lectin (H.U./mg)	1.61	1.57	7.77
**Trypsin Inhibitor (TIU/mg)	26.6	35.8	38.0
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.452	0.302	0.374
Stachyose (%)	2.45	2.14	2.41
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	< 10.0	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	< 10.0	12.7	< 10.0
Daidzin	1140	1040	726
Glycitin	158	129	140
Genistin	2310	2240	1540
Total Aglycone Equivalents	2240	2130	1490

**Table 4**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen D**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-04-41</b>	<b>HT08SOY002-05-41</b>	<b>HT08SOY002-06-41</b>
<b>Location</b>	Perry	Adel	Winterset
<b>Regimen</b>	D	D	D
<b>Description</b>	2686-6	2686-6	2686-6
<b>BTID No.</b>	1750J	1751J	1752J
<b>Covance LIMS Number</b>	90100083	90100106	90100071
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.83	1.59	1.74
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.669	0.576	0.589
18:1 Oleic	3.82	3.32	3.43
18:2 Linoleic	9.61	8.32	8.89
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.48	1.25	1.52
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0466	0.0416	0.0431
20:1 Eicosenoic	0.0269	0.0249	0.0237
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0457	0.0414	0.0441
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	< 0.0200	< 0.0200	< 0.0200
22:6 Docosahexaenoic	< 0.0200	< 0.0200	< 0.0200
Folic Acid (ppm)	2.71	2.95	3.08
Vitamin B1/Thiamine HCl (ppm)	3.6	3.2	3.6
Vitamin B2/Riboflavin (ppm)	3.72	4.24	3.50
Vitamin K (ppm)	0.124	0.120	0.185
Vitamin A/Beta Carotene (ppm)	< 0.200	< 0.200	< 0.200

**Table 4**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen D**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-41	HT08SOY002-08-41	HT08SOY002-09-41
<b>Location</b>	Osborn	Fithian	Sharpsville
<b>Regimen</b>	D	D	D
<b>Description</b>	2686-6	2686-6	2686-6
<b>BTID No.</b>	1753J	1754J	1755J
<b>Covance LIMS Number</b>	90100099	90100085	90100075
<b>Proximate (%)</b>			
Moisture	9.44	9.89	8.00
Protein	33.9	33.0	35.9
Total Fat	18.6	18.9	18.9
Ash	4.63	4.82	5.24
Carbohydrates	33.4	33.4	32.0
Acid Detergent Fiber (%)	17.5	15.9	16.0
Neutral Detergent Fiber (%)	21.1	17.6	19.2
Phytic Acid (%)	1.24	1.27	1.24
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	17.1	18.0	21.8
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	152	168	168
Delta Tocopherol	61.1	70.9	58.5
Total Tocopherols	230	257	248
<b>Minerals (ppm)</b>			
Iron	64.3	57.9	161 <sup>1</sup>
<b>Minerals (%)</b>			
Calcium	0.294	0.272	0.284
Magnesium	0.236	0.229	0.218
Phosphorus	0.532	0.543	0.550
Potassium	1.71	1.72	1.79
Sodium	< 0.0100	< 0.0100	< 0.0100

<sup>1</sup> Confirmed by retest.

**Table 4**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen D**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-41	HT08SOY002-08-41	HT08SOY002-09-41
<b>Location</b>	Osborn	Fithian	Sharpsville
<b>Regimen</b>	D	D	D
<b>Description</b>	2686-6	2686-6	2686-6
<b>BTID No.</b>	1753J	1754J	1755J
<b>Covance LIMS Number</b>	90100099	90100085	90100075
<b>Amino Acids (%)</b>			
Aspartic Acid	3.86	3.87	4.16
Threonine	1.39	1.38	1.43
Serine	1.72	1.75	1.77
Glutamic Acid	5.94	5.93	6.46
Proline	1.57	1.65	1.76
Glycine	1.46	1.47	1.58
Alanine	1.48	1.49	1.60
Cystine	0.563	0.519	0.540
Valine	1.64	1.64	1.83
Methionine	0.508	0.483	0.502
Isoleucine	1.61	1.59	1.77
Leucine	2.62	2.62	2.81
Tyrosine	1.24	1.25	1.26
Phenylalanine	1.75	1.69	1.84
Lysine	2.21	2.21	2.35
Histidine	0.885	0.897	0.950
Arginine	2.58	2.57	2.74
Tryptophan	0.451	0.424	0.458
*Lectin (H.U./mg)	1.32	1.66	2.16
**Trypsin Inhibitor (TIU/mg)	32.3	40.7	28.9
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.331	0.419	0.349
Stachyose (%)	2.10	2.40	2.56
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	< 10.0	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	< 10.0	< 10.0	< 10.0
Daidzin	895	1140	523
Glycitin	167	176	156
Genistin	2070	2380	1040
Total Aglycone Equivalents	1950	2300	1070

**Table 4**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen D**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-07-41</b>	<b>HT08SOY002-08-41</b>	<b>HT08SOY002-09-41</b>
<b>Location</b>	Osborn	Fithian	Sharpsville
<b>Regimen</b>	D	D	D
<b>Description</b>	2686-6	2686-6	2686-6
<b>BTID No.</b>	1753J	1754J	1755J
<b>Covance LIMS Number</b>	90100099	90100085	90100075
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.86	1.92	1.83
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	0.0205	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.713	0.651	0.769
18:1 Oleic	4.16	3.94	4.35
18:2 Linoleic	9.56	10.1	9.58
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.40	1.48	1.37
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0477	0.0460	0.0555
20:1 Eicosenoic	0.0299	0.0294	0.0319
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0506	0.0463	0.0516
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	0.0250	< 0.0200	0.0261
22:6 Docosaheptaenoic	< 0.0200	< 0.0200	< 0.0200
<b>Vitamins</b>			
Folic Acid (ppm)	3.30	2.94	3.48
Vitamin B1/Thiamine HCl (ppm)	3.1	3.3	4.3
Vitamin B2/Riboflavin (ppm)	3.04	3.34	3.69
Vitamin K (ppm)	0.147	0.150	0.227
Vitamin A/Beta Carotene (ppm)	< 0.200	< 0.200	< 0.200

**Table 4**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen D**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-41
<b>Location</b>	Mediapolis
<b>Regimen</b>	D
<b>Description</b>	2686-6
<b>BTID No.</b>	1756J
<b>Covance LIMS Number</b>	90100042
<b>Proximate (%)</b>	
Moisture	9.78
Protein	34.2
Total Fat	19.3
Ash	4.56
Carbohydrates	32.2
Acid Detergent Fiber (%)	15.6
Neutral Detergent Fiber (%)	16.3
Phytic Acid (%)	0.978
<b>Tocopherols (ppm)</b>	
Alpha Tocopherol	14.6
Beta Tocopherol	< 5.00
Gamma Tocopherol	165
Delta Tocopherol	65.2
Total Tocopherols	245
<b>Minerals (ppm)</b>	
Iron	63.2
<b>Minerals (%)</b>	
Calcium	0.313
Magnesium	0.226
Phosphorus	0.503
Potassium	1.67
Sodium	< 0.0100



**Table 4**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen D**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-41
<b>Location</b>	Mediapolis
<b>Regimen</b>	D
<b>Description</b>	2686-6
<b>BTID No.</b>	1756J
<b>Covance LIMS Number</b>	90100042
<b>Amino Acids (%)</b>	
Aspartic Acid	3.96
Threonine	1.38
Serine	1.79
Glutamic Acid	6.10
Proline	1.62
Glycine	1.50
Alanine	1.52
Cystine	0.547
Valine	1.69
Methionine	0.509
Isoleucine	1.64
Leucine	2.68
Tyrosine	1.27
Phenylalanine	1.74
Lysine	2.26
Histidine	0.907
Arginine	2.59
Tryptophan	0.399
*Lectin (H.U./mg)	1.80
**Trypsin Inhibitor (TIU/mg)	26.9
*H.U. - Hemagglutinating Unit	
**TIU - Trypsin Inhibitor Unit	
Raffinose (%)	0.318
Stachyose (%)	2.53
<b>Isoflavones (ppm)</b>	
Daidzein	< 10.0
Glycitein	< 10.0
Genistein	< 10.0
Daidzin	697
Glycitin	163
Genistin	1620
Total Aglycone Equivalents	1540

**Table 4**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen D**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-41
<b>Location</b>	Mediapolis
<b>Regimen</b>	D
<b>Description</b>	2686-6
<b>BTID No.</b>	1756J
<b>Covance LIMS Number</b>	90100042
<b>Fatty Acids (%)</b>	
8:0 Caprylic	< 0.0200
10:0 Capric	< 0.0200
12:0 Lauric	< 0.0200
14:0 Myristic	< 0.0200
14:1 Myristoleic	< 0.0200
15:0 Pentadecanoic	< 0.0200
15:1 Pentadecenoic	< 0.0200
16:0 Palmitic	1.91
16:1 Palmitoleic	< 0.0200
17:0 Heptadecanoic	< 0.0200
17:1 Heptadecenoic	< 0.0200
18:0 Stearic	0.701
18:1 Oleic	4.17
18:2 Linoleic	10.1
18:3 Gamma Linolenic	< 0.0200
18:3 Linolenic	1.42
18:4 Octadecatetraenoic	< 0.0200
20:0 Arachidic	0.0497
20:1 Eicosenoic	0.0310
20:2 Eicosadienoic	< 0.0200
20:4 Arachidonic	< 0.0200
20:3 Eicosatrienoic	< 0.0200
20:5 Eicosapentaenoic	< 0.0200
22:0 Behenic	0.0501
22:1 Erucic	< 0.0200
22:5 Docosapentaenoic	< 0.0200
24:0 Lignoceric	0.0249
22:6 Docosahexaenoic	< 0.0200
<b>Folic Acid (ppm)</b>	
Folic Acid (ppm)	1.98
<b>Vitamin B1/Thiamine HCl (ppm)</b>	
Vitamin B1/Thiamine HCl (ppm)	2.6
<b>Vitamin B2/Riboflavin (ppm)</b>	
Vitamin B2/Riboflavin (ppm)	5.30
<b>Vitamin K (ppm)</b>	
Vitamin K (ppm)	< 0.100
<b>Vitamin A/Beta Carotene (ppm)</b>	
Vitamin A/Beta Carotene (ppm)	< 0.200

**Table 5**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen E**

<b>Bayer Sample Number ID</b>	HT08SOY002-01-42	HT08SOY002-02-42	HT08SOY002-03-42
<b>Location</b>	Marcus	Iowa Falls	Glidden
<b>Regimen</b>	E	E	E
<b>Description</b>	2788	2788	2788
<b>BTID No.</b>	1747K	1748K	1749K
<b>Covance LIMS Number</b>	90100088	90100048	90100079
<b>Proximate (%)</b>			
Moisture	9.84	10.6	9.97
Protein	35.1	33.8	32.7
Total Fat	17.6	18.3	18.9
Ash	4.75	4.56	5.07
Carbohydrates	32.7	32.7	33.4
Acid Detergent Fiber (%)	13.2	12.2	14.6
Neutral Detergent Fiber (%)	16.2	14.4	16.7
Phytic Acid (%)	0.996	1.02	1.33
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	13.5	15.6	15.6
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	155	160	171
Delta Tocopherol	81.2	88.7	76.4
Total Tocopherols	250	264	263
<b>Minerals (ppm)</b>			
Iron	63.9	52.6	79.5
<b>Minerals (%)</b>			
Calcium	0.191	0.211	0.225
Magnesium	0.202	0.218	0.222
Phosphorus	0.519	0.491	0.586
Potassium	1.83	1.75	1.90
Sodium	< 0.0100	0.0201	< 0.0100

**Table 5**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen E**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-01-42</b>	<b>HT08SOY002-02-42</b>	<b>HT08SOY002-03-42</b>
<b>Location</b>	Marcus	Iowa Falls	Glidden
<b>Regimen</b>	E	E	E
<b>Description</b>	2788	2788	2788
<b>BTID No.</b>	1747K	1748K	1749K
<b>Covance LIMS Number</b>	90100088	90100048	90100079
<b>Amino Acids (%)</b>			
Aspartic Acid	3.99	3.91	3.76
Threonine	1.41	1.37	1.32
Serine	1.72	1.80	1.65
Glutamic Acid	6.35	6.22	5.91
Proline	1.67	1.61	1.57
Glycine	1.51	1.46	1.42
Alanine	1.54	1.49	1.46
Cystine	0.523	0.510	0.496
Valine	1.75	1.65	1.64
Methionine	0.506	0.495	0.489
Isoleucine	1.67	1.57	1.56
Leucine	2.70	2.64	2.54
Tyrosine	1.27	1.26	1.19
Phenylalanine	1.84	1.74	1.68
Lysine	2.32	2.24	2.18
Histidine	0.946	0.918	0.885
Arginine	2.81	2.70	2.54
Tryptophan	0.438	0.375	0.408
*Lectin (H.U./mg)	0.812	0.955	1.33
**Trypsin Inhibitor (TIU/mg)	31.1	37.4	35.0
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.338	0.314	0.454
Stachyose (%)	2.15	2.33	2.42
<b>Isoflavones (ppm)</b>			
Daidzein	10.2	< 10.0	10.5
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	< 10.0	< 10.0	< 10.0
Daidzin	1370	1690	1250
Glycitin	269	220	284
Genistin	2210	2660	2280
Total Aglycone Equivalents	2400	2830	2380

**Table 5**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen E**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-01-42</b>	<b>HT08SOY002-02-42</b>	<b>HT08SOY002-03-42</b>
<b>Location</b>	Marcus	Iowa Falls	Glidden
<b>Regimen</b>	E	E	E
<b>Description</b>	2788	2788	2788
<b>BTID No.</b>	1747K	1748K	1749K
<b>Covance LIMS Number</b>	90100088	90100048	90100079
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.67	1.73	1.82
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	0.0201	< 0.0200	0.0212
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.718	0.734	0.807
18:1 Oleic	3.72	3.82	3.97
18:2 Linoleic	9.12	9.42	9.93
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.61	1.72	1.77
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0515	0.0531	0.0574
20:1 Eicosenoic	0.0246	0.0266	0.0288
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0523	0.0547	0.0582
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	< 0.0200	< 0.0200	< 0.0200
22:6 Docosahexaenoic	< 0.0200	< 0.0200	< 0.0200
<b>Folic Acid (ppm)</b>			
Folic Acid (ppm)	3.26	2.86	3.11
<b>Vitamin B1/Thiamine HCl (ppm)</b>			
Vitamin B1/Thiamine HCl (ppm)	2.8	1.4	2.7
<b>Vitamin B2/Riboflavin (ppm)</b>			
Vitamin B2/Riboflavin (ppm)	4.10	3.45	3.71
<b>Vitamin K (ppm)</b>			
Vitamin K (ppm)	0.108	< 0.100	0.113
<b>Vitamin A/Beta Carotene (ppm)</b>			
Vitamin A/Beta Carotene (ppm)	< 0.200	< 0.200	< 0.200

**Table 5**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen E**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-04-42</b>	<b>HT08SOY002-05-42</b>	<b>HT08SOY002-06-42</b>
<b>Location</b>	Perry	Adel	Winterset
<b>Regimen</b>	E	E	E
<b>Description</b>	2788	2788	2788
<b>BTID No.</b>	1750K	1751K	1752K
<b>Covance LIMS Number</b>	90100076	90100039	90100098
<b>Proximate (%)</b>			
Moisture	8.86	8.87	9.82
Protein	33.5	33.6	35.3
Total Fat	18.5	18.3	17.0
Ash	5.02	4.86	4.49
Carbohydrates	34.1	34.4	33.4
Acid Detergent Fiber (%)	15.0	13.6	15.2
Neutral Detergent Fiber (%)	16.9	16.3	17.8
Phytic Acid (%)	1.21	1.07	1.29
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	16.6	15.0	13.5
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	159	168	148
Delta Tocopherol	73.8	69.7	65.5
Total Tocopherols	249	253	227
<b>Minerals (ppm)</b>			
Iron	72.3	68.7	68.5
<b>Minerals (%)</b>			
Calcium	0.232	0.233	0.221
Magnesium	0.226	0.226	0.208
Phosphorus	0.571	0.537	0.543
Potassium	1.84	1.80	1.80
Sodium	< 0.0100	< 0.0100	< 0.0100

**Table 5**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen E**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-04-42</b>	<b>HT08SOY002-05-42</b>	<b>HT08SOY002-06-42</b>
<b>Location</b>	Perry	Adel	Winterset
<b>Regimen</b>	E	E	E
<b>Description</b>	2788	2788	2788
<b>BTID No.</b>	1750K	1751K	1752K
<b>Covance LIMS Number</b>	90100076	90100039	90100098
<b>Amino Acids (%)</b>			
Aspartic Acid	3.77	3.80	4.10
Threonine	1.31	1.34	1.44
Serine	1.61	1.75	1.80
Glutamic Acid	5.98	6.04	6.51
Proline	1.60	1.56	1.69
Glycine	1.44	1.43	1.53
Alanine	1.48	1.45	1.56
Cystine	0.458	0.508	0.523
Valine	1.69	1.57	1.77
Methionine	0.462	0.493	0.502
Isoleucine	1.60	1.51	1.70
Leucine	2.57	2.55	2.76
Tyrosine	1.20	1.22	1.30
Phenylalanine	1.71	1.67	1.88
Lysine	2.18	2.17	2.36
Histidine	0.894	0.888	0.960
Arginine	2.58	2.60	2.82
Tryptophan	0.408	0.386	0.414
*Lectin (H.U./mg)	0.828	1.03	1.10
**Trypsin Inhibitor (TIU/mg)	31.0	25.7	33.4
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.432	0.428	0.348
Stachyose (%)	2.24	2.55	2.18
<b>Isoflavones (ppm)</b>			
Daidzein	11.4	< 10.0	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	< 10.0	< 10.0	< 10.0
Daidzin	1180	1010	926
Glycitin	249	232	251
Genistin	2210	1730	1600
Total Aglycone Equivalents	2270	1850	1730

**Table 5**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen E**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-04-42</b>	<b>HT08SOY002-05-42</b>	<b>HT08SOY002-06-42</b>
<b>Location</b>	Perry	Adel	Winterset
<b>Regimen</b>	E	E	E
<b>Description</b>	2788	2788	2788
<b>BTID No.</b>	1750K	1751K	1752K
<b>Covance LIMS Number</b>	90100076	90100039	90100098
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.75	1.72	1.64
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.807	0.790	0.701
18:1 Oleic	4.05	3.96	3.46
18:2 Linoleic	9.51	9.17	8.77
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.61	1.48	1.59
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0567	0.0564	0.0486
20:1 Eicosenoic	0.0275	0.0271	0.0244
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0546	0.0563	0.0526
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	0.0237	< 0.0200	0.0201
22:6 Docosahexaenoic	< 0.0200	< 0.0200	< 0.0200
Folic Acid (ppm)	3.43	2.61	2.85
Vitamin B1/Thiamine HCl (ppm)	2.6	2.1	2.8
Vitamin B2/Riboflavin (ppm)	3.44	5.81	3.67
Vitamin K (ppm)	0.138	< 0.100	0.183
Vitamin A/Beta Carotene (ppm)	< 0.200	< 0.200	< 0.200



**Table 5**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen E**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-07-42</b>	<b>HT08SOY002-08-42</b>	<b>HT08SOY002-09-42</b>
<b>Location</b>	Osborn	Fithian	Sharpsville
<b>Regimen</b>	E	E	E
<b>Description</b>	2788	2788	2788
<b>BTID No.</b>	1753K	1754K	1755K
<b>Covance LIMS Number</b>	90100129	90100052	90100026
<b>Proximate (%)</b>			
Moisture	9.19	9.86	8.42
Protein	33.2	33.6	35.3
Total Fat	17.4	19.1	18.3
Ash	4.90	4.71	5.25
Carbohydrates	35.3	32.7	32.7
Acid Detergent Fiber (%)	21.3	15.6	15.5
Neutral Detergent Fiber (%)	22.5	16.5	16.3
Phytic Acid (%)	1.12	1.12	1.13
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	16.9	19.3	20.9
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	170	177	182
Delta Tocopherol	68.5	74.4	65.7
Total Tocopherols	255	271	269
<b>Minerals (ppm)</b>			
Iron	67.1	59.7	149 <sup>1</sup>
<b>Minerals (%)</b>			
Calcium	0.268	0.236	0.253
Magnesium	0.239	0.234	0.222
Phosphorus	0.510	0.514	0.537
Potassium	1.73	1.75	1.82
Sodium	0.0216	0.0148	0.0239

<sup>1</sup> Confirmed by retest.

**Table 5**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen E**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-07-42</b>	<b>HT08SOY002-08-42</b>	<b>HT08SOY002-09-42</b>
<b>Location</b>	Osborn	Fithian	Sharpsville
<b>Regimen</b>	E	E	E
<b>Description</b>	2788	2788	2788
<b>BTID No.</b>	1753K	1754K	1755K
<b>Covance LIMS Number</b>	90100129	90100052	90100026
<b>Amino Acids (%)</b>			
Aspartic Acid	3.87	3.87	3.90
Threonine	1.34	1.36	1.35
Serine	1.72	1.80	1.74
Glutamic Acid	6.11	6.13	6.21
Proline	1.62	1.59	1.65
Glycine	1.46	1.44	1.49
Alanine	1.49	1.46	1.49
Cystine	0.486	0.525	0.531
Valine	1.67	1.61	1.67
Methionine	0.453	0.505	0.500
Isoleucine	1.60	1.54	1.61
Leucine	2.61	2.60	2.62
Tyrosine	1.22	1.24	1.26
Phenylalanine	1.73	1.71	1.72
Lysine	2.23	2.20	2.23
Histidine	0.899	0.900	0.908
Arginine	2.66	2.63	2.68
Tryptophan	0.350	0.384	0.395
*Lectin (H.U./mg)	1.03	1.26	1.29
**Trypsin Inhibitor (TIU/mg)	28.3	26.8	22.5
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.308	0.352	0.350
Stachyose (%)	2.32	2.48	2.56
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	< 10.0	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	< 10.0	< 10.0	< 10.0
Daidzin	900	1280	687
Glycitin	231	233	257
Genistin	1800	2280	1190
Total Aglycone Equivalents	1820	2350	1330

**Table 5**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen E**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-07-42</b>	<b>HT08SOY002-08-42</b>	<b>HT08SOY002-09-42</b>
<b>Location</b>	Osborn	Fithian	Sharpsville
<b>Regimen</b>	E	E	E
<b>Description</b>	2788	2788	2788
<b>BTID No.</b>	1753K	1754K	1755K
<b>Covance LIMS Number</b>	90100129	90100052	90100026
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.68	1.83	1.69
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	0.0202	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.783	0.781	0.826
18:1 Oleic	4.05	4.15	4.05
18:2 Linoleic	8.70	10.0	9.02
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.41	1.56	1.45
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0577	0.0561	0.0606
20:1 Eicosenoic	0.0284	0.0299	0.0287
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0557	0.0552	0.0570
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	0.0212	0.0253	< 0.0200
22:6 Docosahexaenoic	< 0.0200	< 0.0200	< 0.0200
<b>Folic Acid (ppm)</b>			
Folic Acid (ppm)	3.12	3.24	3.06
<b>Vitamin B1/Thiamine HCl (ppm)</b>			
Vitamin B1/Thiamine HCl (ppm)	2.5	2.1	2.8
<b>Vitamin B2/Riboflavin (ppm)</b>			
Vitamin B2/Riboflavin (ppm)	4.41	5.00	3.57
<b>Vitamin K (ppm)</b>			
Vitamin K (ppm)	0.206	0.118	< 0.100
<b>Vitamin A/Beta Carotene (ppm)</b>			
Vitamin A/Beta Carotene (ppm)	< 0.200	< 0.200	< 0.200

**Table 5**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen E**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-42
<b>Location</b>	Mediapolis
<b>Regimen</b>	E
<b>Description</b>	2788
<b>BTID No.</b>	1756K
<b>Covance LIMS Number</b>	90100090
<b>Proximate (%)</b>	
Moisture	8.88
Protein	33.8
Total Fat	18.6
Ash	4.78
Carbohydrates	33.9
Acid Detergent Fiber (%)	16.7
Neutral Detergent Fiber (%)	20.5
Phytic Acid (%)	1.13
<b>Tocopherols (ppm)</b>	
Alpha Tocopherol	22.7
Beta Tocopherol	< 5.00
Gamma Tocopherol	216
Delta Tocopherol	76.3
Total Tocopherols	315
<b>Minerals (ppm)</b>	
Iron	61.2
<b>Minerals (%)</b>	
Calcium	0.289
Magnesium	0.208
Phosphorus	0.512
Potassium	1.74
Sodium	< 0.0100

**Table 5**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen E**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-42
<b>Location</b>	Mediapolis
<b>Regimen</b>	E
<b>Description</b>	2788
<b>BTID No.</b>	1756K
<b>Covance LIMS Number</b>	90100090
<b>Amino Acids (%)</b>	
Aspartic Acid	3.70
Threonine	1.33
Serine	1.68
Glutamic Acid	5.76
Proline	1.59
Glycine	1.39
Alanine	1.41
Cystine	0.532
Valine	1.51
Methionine	0.496
Isoleucine	1.48
Leucine	2.47
Tyrosine	1.20
Phenylalanine	1.68
Lysine	2.13
Histidine	0.850
Arginine	2.45
Tryptophan	0.426
*Lectin (H.U./mg)	1.04
**Trypsin Inhibitor (TIU/mg)	45.1
*H.U. - Hemagglutinating Unit	
**TIU - Trypsin Inhibitor Unit	
Raffinose (%)	0.354
Stachyose (%)	2.03
<b>Isoflavones (ppm)</b>	
Daidzein	< 10.0
Glycitein	< 10.0
Genistein	< 10.0
Daidzin	671
Glycitin	276
Genistin	1320
Total Aglycone Equivalents	1410

**Table 5**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen E**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-42
<b>Location</b>	Mediapolis
<b>Regimen</b>	E
<b>Description</b>	2788
<b>BTID No.</b>	1756K
<b>Covance LIMS Number</b>	90100090

<b>Fatty Acids (%)</b>	
8:0 Caprylic	< 0.0200
10:0 Capric	< 0.0200
12:0 Lauric	< 0.0200
14:0 Myristic	< 0.0200
14:1 Myristoleic	< 0.0200
15:0 Pentadecanoic	< 0.0200
15:1 Pentadecenoic	< 0.0200
16:0 Palmitic	1.75
16:1 Palmitoleic	< 0.0200
17:0 Heptadecanoic	< 0.0200
17:1 Heptadecenoic	< 0.0200
18:0 Stearic	0.788
18:1 Oleic	4.15
18:2 Linoleic	9.58
18:3 Gamma Linolenic	< 0.0200
18:3 Linolenic	1.48
18:4 Octadecatetraenoic	< 0.0200
20:0 Arachidic	0.0580
20:1 Eicosenoic	0.0310
20:2 Eicosadienoic	< 0.0200
20:4 Arachidonic	< 0.0200
20:3 Eicosatrienoic	< 0.0200
20:5 Eicosapentaenoic	< 0.0200
22:0 Behenic	0.0551
22:1 Erucic	< 0.0200
22:5 Docosapentaenoic	< 0.0200
24:0 Lignoceric	0.0212
22:6 Docosahexaenoic	< 0.0200

Folic Acid (ppm)	3.02
Vitamin B1/Thiamine HCl (ppm)	2.8
Vitamin B2/Riboflavin (ppm)	4.03
Vitamin K (ppm)	0.209
Vitamin A/Beta Carotene (ppm)	< 0.200

**Table 6**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen F**

<b>Bayer Sample Number ID</b>	HT08SOY002-01-43	HT08SOY002-02-43	HT08SOY002-03-43
<b>Location</b>	Marcus	Iowa Falls	Glidden
<b>Regimen</b>	F	F	F
<b>Description</b>	3000-0	3000-0	3000-0
<b>BTID No.</b>	1747L	1748L	1749L
<b>Covance LIMS Number</b>	90100100	90100123	90100108
<b>Proximate (%)</b>			
Moisture	10.3	10.6	9.42
Protein	35.0	34.2	34.8
Total Fat	15.9	13.5	14.9
Ash	4.40	4.55	4.83
Carbohydrates	34.4	37.2	36.1
Acid Detergent Fiber (%)	15.0	16.5	14.4
Neutral Detergent Fiber (%)	17.9	18.7	16.0
Phytic Acid (%)	0.935	1.02	1.23
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	12.5	11.5	14.6
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	137	139	153
Delta Tocopherol	52.5	53.6	47.9
Total Tocopherols	202	204	216
<b>Minerals (ppm)</b>			
Iron	56.5	56.6	70.1
<b>Minerals (%)</b>			
Calcium	0.212	0.208	0.229
Magnesium	0.177	0.189	0.199
Phosphorus	0.448	0.473	0.559
Potassium	1.69	1.71	1.82
Sodium	< 0.0100	0.0104	< 0.0100

**Table 6**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen F**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-01-43</b>	<b>HT08SOY002-02-43</b>	<b>HT08SOY002-03-43</b>
<b>Location</b>	Marcus	Iowa Falls	Glidden
<b>Regimen</b>	F	F	F
<b>Description</b>	3000-0	3000-0	3000-0
<b>BTID No.</b>	1747L	1748L	1749L
<b>Covance LIMS Number</b>	90100100	90100123	90100108
<b>Amino Acids (%)</b>			
Aspartic Acid	3.85	3.81	4.00
Threonine	1.39	1.35	1.38
Serine	1.75	1.75	1.77
Glutamic Acid	6.06	6.01	6.36
Proline	1.65	1.60	1.73
Glycine	1.47	1.45	1.52
Alanine	1.45	1.45	1.53
Cystine	0.504	0.506	0.516
Valine	1.58	1.56	1.73
Methionine	0.497	0.490	0.490
Isoleucine	1.51	1.49	1.63
Leucine	2.58	2.56	2.68
Tyrosine	1.24	1.22	1.27
Phenylalanine	1.74	1.68	1.76
Lysine	2.18	2.16	2.29
Histidine	0.899	0.893	0.946
Arginine	2.67	2.59	2.75
Tryptophan	0.415	0.389	0.411
*Lectin (H.U./mg)	0.408	0.617	0.875
**Trypsin Inhibitor (TIU/mg)	26.3	34.3	27.0
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.303	0.259	0.329
Stachyose (%)	2.04	1.99	2.50
<b>Isoflavones (ppm)</b>			
Daidzein	10.0	< 10.0	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	< 10.0	< 10.0	< 10.0
Daidzin	2060	2260	1730
Glycitin	183	172	205
Genistin	2220	2470	2080
Total Aglycone Equivalents	2770	3030	2490



**Table 6**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen F**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-01-43</b>	<b>HT08SOY002-02-43</b>	<b>HT08SOY002-03-43</b>
<b>Location</b>	Marcus	Iowa Falls	Glidden
<b>Regimen</b>	F	F	F
<b>Description</b>	3000-0	3000-0	3000-0
<b>BTID No.</b>	1747L	1748L	1749L
<b>Covance LIMS Number</b>	90100100	90100123	90100108
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.67	1.40	1.60
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.611	0.508	0.591
18:1 Oleic	3.40	2.68	3.08
18:2 Linoleic	8.06	6.63	7.61
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.39	1.28	1.49
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0428	0.0383	0.0448
20:1 Eicosenoic	0.0237	< 0.0200	0.0227
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0501	0.0407	0.0476
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	< 0.0200	< 0.0200	< 0.0200
22:6 Docosaheptaenoic	< 0.0200	< 0.0200	< 0.0200
Folic Acid (ppm)	3.40	3.10	2.87
Vitamin B1/Thiamine HCl (ppm)	1.9	1.6	1.8
Vitamin B2/Riboflavin (ppm)	3.31	3.21	5.10
Vitamin K (ppm)	< 0.100	< 0.100	0.130
Vitamin A/Beta Carotene (ppm)	< 0.200	< 0.200	< 0.200

**Table 6**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen F**

<b>Bayer Sample Number ID</b>	HT08SOY002-04-43	HT08SOY002-05-43	HT08SOY002-06-43
<b>Location</b>	Perry	Adel	Winterset
<b>Regimen</b>	F	F	F
<b>Description</b>	3000-0	3000-0	3000-0
<b>BTID No.</b>	1750L	1751L	1752L
<b>Covance LIMS Number</b>	90100115	90100104	90100063
<b>Proximate (%)</b>			
Moisture	9.84	9.55	10.6
Protein	35.3	34.3	35.4
Total Fat	14.9	14.5	15.9
Ash	4.63	4.58	4.84
Carbohydrates	35.3	37.1	33.3
Acid Detergent Fiber (%)	19.0	15.6	13.4
Neutral Detergent Fiber (%)	19.3	19.0	15.0
Phytic Acid (%)	1.07	0.890	1.19
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	15.7	14.6	16.7
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	147	159	154
Delta Tocopherol	43.9	41.2	45.1
Total Tocopherols	207	215	216
<b>Minerals (ppm)</b>			
Iron	64.8	64.0	61.8
<b>Minerals (%)</b>			
Calcium	0.234	0.236	0.229
Magnesium	0.192	0.199	0.194
Phosphorus	0.522	0.497	0.545
Potassium	1.73	1.83	1.82
Sodium	0.0189	< 0.0100	< 0.0100

**Table 6**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen F**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-04-43</b>	<b>HT08SOY002-05-43</b>	<b>HT08SOY002-06-43</b>
<b>Location</b>	Perry	Adel	Winterset
<b>Regimen</b>	F	F	F
<b>Description</b>	3000-0	3000-0	3000-0
<b>BTID No.</b>	1750L	1751L	1752L
<b>Covance LIMS Number</b>	90100115	90100104	90100063
<b>Amino Acids (%)</b>			
Aspartic Acid	4.01	4.00	3.98
Threonine	1.39	1.36	1.43
Serine	1.79	1.75	1.81
Glutamic Acid	6.41	6.33	6.27
Proline	1.72	1.69	1.66
Glycine	1.53	1.52	1.51
Alanine	1.54	1.53	1.50
Cystine	0.497	0.511	0.526
Valine	1.72	1.73	1.63
Methionine	0.499	0.488	0.519
Isoleucine	1.64	1.65	1.58
Leucine	2.70	2.69	2.68
Tyrosine	1.24	1.26	1.27
Phenylalanine	1.77	1.77	1.79
Lysine	2.29	2.28	2.26
Histidine	0.947	0.943	0.930
Arginine	2.73	2.72	2.68
Tryptophan	0.419	0.394	0.429
*Lectin (H.U./mg)	0.722	1.05	1.18
**Trypsin Inhibitor (TIU/mg)	23.4	23.8	32.1
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.288	0.306	0.321
Stachyose (%)	2.11	2.11	2.12
<b>Isoflavones (ppm)</b>			
Daidzein	< 10.0	12.7	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	< 10.0	< 10.0	< 10.0
Daidzin	1630	1800	1650
Glycitin	195	207	192
Genistin	1900	1990	1860
Total Aglycone Equivalents	2310	2490	2290

**Table 6**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen F**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-04-43</b>	<b>HT08SOY002-05-43</b>	<b>HT08SOY002-06-43</b>
<b>Location</b>	<b>Perry</b>	<b>Adel</b>	<b>Winterset</b>
<b>Regimen</b>	<b>F</b>	<b>F</b>	<b>F</b>
<b>Description</b>	<b>3000-0</b>	<b>3000-0</b>	<b>3000-0</b>
<b>BTID No.</b>	<b>1750L</b>	<b>1751L</b>	<b>1752L</b>
<b>Covance LIMS Number</b>	<b>90100115</b>	<b>90100104</b>	<b>90100063</b>
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.58	1.53	1.72
16:1 Palmitoleic	< 0.0200	0.0140	< 0.0200
17:0 Heptadecanoic	< 0.0200	0.0157	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.639	0.574	0.603
18:1 Oleic	3.32	3.12	3.33
18:2 Linoleic	7.39	7.21	7.99
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.31	1.21	1.46
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0484	0.0446	0.0456
20:1 Eicosenoic	0.0242	0.0235	0.0246
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0484	0.0464	0.0489
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	< 0.0200	< 0.0200	< 0.0200
22:6 Docosaheptaenoic	< 0.0200	< 0.0200	< 0.0200
<b>Folic Acid (ppm)</b>			
Folic Acid (ppm)	3.54	3.35	3.13
<b>Vitamin B1/Thiamine HCl (ppm)</b>			
Vitamin B1/Thiamine HCl (ppm)	2.1	2.4	2.7
<b>Vitamin B2/Riboflavin (ppm)</b>			
Vitamin B2/Riboflavin (ppm)	3.79	4.48	3.27
<b>Vitamin K (ppm)</b>			
Vitamin K (ppm)	0.173	0.140	0.127
<b>Vitamin A/Beta Carotene (ppm)</b>			
Vitamin A/Beta Carotene (ppm)	< 0.200	< 0.200	< 0.200

**Table 6**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen F**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-43	HT08SOY002-08-43	HT08SOY002-09-43
<b>Location</b>	Osborn	Fithian	Sharpsville
<b>Regimen</b>	F	F	F
<b>Description</b>	3000-0	3000-0	3000-0
<b>BTID No.</b>	1753L	1754L	1755L
<b>Covance LIMS Number</b>	90100134	90100027	90100070
<b>Proximate (%)</b>			
Moisture	9.69	10.5	8.96
Protein	33.0	34.8	36.5
Total Fat	16.3	16.4	16.7
Ash	5.06	4.85	4.86
Carbohydrates	36.0	33.5	33.0
Acid Detergent Fiber (%)	18.7	15.2	14.5
Neutral Detergent Fiber (%)	20.1	16.0	16.3
Phytic Acid (%)	1.28	1.09	1.15
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	17.1	15.1	17.7
Beta Tocopherol	< 5.00	< 5.00	< 5.00
Gamma Tocopherol	171	168	158
Delta Tocopherol	43.7	45.0	37.8
Total Tocopherols	232	228	214
<b>Minerals (ppm)</b>			
Iron	61.2	59.4	63.7
<b>Minerals (%)</b>			
Calcium	0.239	0.249	0.249
Magnesium	0.206	0.202	0.192
Phosphorus	0.531	0.546	0.518
Potassium	1.87	1.80	1.90
Sodium	0.0113	< 0.0100	< 0.0100

**Table 6**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen F**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-07-43</b>	<b>HT08SOY002-08-43</b>	<b>HT08SOY002-09-43</b>
<b>Location</b>	Osborn	Fithian	Sharpsville
<b>Regimen</b>	F	F	F
<b>Description</b>	3000-0	3000-0	3000-0
<b>BTID No.</b>	1753L	1754L	1755L
<b>Covance LIMS Number</b>	90100134	90100027	90100070
<b>Amino Acids (%)</b>			
Aspartic Acid	3.69	3.91	4.05
Threonine	1.35	1.36	1.42
Serine	1.69	1.75	1.82
Glutamic Acid	5.77	6.19	6.44
Proline	1.56	1.65	1.76
Glycine	1.42	1.49	1.54
Alanine	1.42	1.49	1.53
Cystine	0.526	0.519	0.500
Valine	1.54	1.67	1.66
Methionine	0.494	0.489	0.490
Isoleucine	1.48	1.60	1.60
Leucine	2.48	2.64	2.70
Tyrosine	1.20	1.25	1.28
Phenylalanine	1.67	1.73	1.78
Lysine	2.15	2.20	2.26
Histidine	0.872	0.912	0.925
Arginine	2.52	2.63	2.72
Tryptophan	0.392	0.394	0.465
*Lectin (H.U./mg)	0.534	0.838	1.77
**Trypsin Inhibitor (TIU/mg)	22.0	21.0	33.4
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.323	0.324	0.360
Stachyose (%)	2.41	2.45	2.20
<b>Isoflavones (ppm)</b>			
Daidzein	10.3	< 10.0	< 10.0
Glycitein	< 10.0	< 10.0	< 10.0
Genistein	< 10.0	< 10.0	< 10.0
Daidzin	1590	1740	985
Glycitin	218	192	216
Genistin	1940	1930	1140
Total Aglycone Equivalents	2330	2390	1450

**Table 6**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen F**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-07-43</b>	<b>HT08SOY002-08-43</b>	<b>HT08SOY002-09-43</b>
<b>Location</b>	Osborn	Fithian	Sharpsville
<b>Regimen</b>	F	F	F
<b>Description</b>	3000-0	3000-0	3000-0
<b>BTID No.</b>	1753L	1754L	1755L
<b>Covance LIMS Number</b>	90100134	90100027	90100070
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< 0.0200	< 0.0200	< 0.0200
10:0 Capric	< 0.0200	< 0.0200	< 0.0200
12:0 Lauric	< 0.0200	< 0.0200	< 0.0200
14:0 Myristic	< 0.0200	< 0.0200	< 0.0200
14:1 Myristoleic	< 0.0200	< 0.0200	< 0.0200
15:0 Pentadecanoic	< 0.0200	< 0.0200	< 0.0200
15:1 Pentadecenoic	< 0.0200	< 0.0200	< 0.0200
16:0 Palmitic	1.79	1.60	1.77
16:1 Palmitoleic	< 0.0200	< 0.0200	< 0.0200
17:0 Heptadecanoic	< 0.0200	< 0.0200	< 0.0200
17:1 Heptadecenoic	< 0.0200	< 0.0200	< 0.0200
18:0 Stearic	0.669	0.598	0.735
18:1 Oleic	3.61	3.34	3.79
18:2 Linoleic	8.18	7.72	8.31
18:3 Gamma Linolenic	< 0.0200	< 0.0200	< 0.0200
18:3 Linolenic	1.35	1.22	1.35
18:4 Octadecatetraenoic	< 0.0200	< 0.0200	< 0.0200
20:0 Arachidic	0.0512	0.0445	0.0561
20:1 Eicosenoic	0.0277	0.0241	0.0280
20:2 Eicosadienoic	< 0.0200	< 0.0200	< 0.0200
20:4 Arachidonic	< 0.0200	< 0.0200	< 0.0200
20:3 Eicosatrienoic	< 0.0200	< 0.0200	< 0.0200
20:5 Eicosapentaenoic	< 0.0200	< 0.0200	< 0.0200
22:0 Behenic	0.0531	0.0451	0.0566
22:1 Erucic	< 0.0200	< 0.0200	< 0.0200
22:5 Docosapentaenoic	< 0.0200	< 0.0200	< 0.0200
24:0 Lignoceric	< 0.0200	< 0.0200	< 0.0200
22:6 Docosahexaenoic	< 0.0200	< 0.0200	< 0.0200
Folic Acid (ppm)	3.12	2.72	3.94
Vitamin B1/Thiamine HCl (ppm)	2.8	2.3	2.9
Vitamin B2/Riboflavin (ppm)	5.23	3.90	4.04
Vitamin K (ppm)	0.219	< 0.100	0.239
Vitamin A/Beta Carotene (ppm)	< 0.200	< 0.200	< 0.200

**Table 6**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen F**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-43
<b>Location</b>	Mediapolis
<b>Regimen</b>	F
<b>Description</b>	3000-0
<b>BTID No.</b>	1756L
<b>Covance LIMS Number</b>	90100078
<b>Proximate (%)</b>	
Moisture	10.2
Protein	34.8
Total Fat	17.2
Ash	4.77
Carbohydrates	33.0
Acid Detergent Fiber (%)	15.5
Neutral Detergent Fiber (%)	17.7
Phytic Acid (%)	1.05
<b>Tocopherols (ppm)</b>	
Alpha Tocopherol	18.0
Beta Tocopherol	< 5.00
Gamma Tocopherol	170
Delta Tocopherol	41.9
Total Tocopherols	230
<b>Minerals (ppm)</b>	
Iron	58.0
<b>Minerals (%)</b>	
Calcium	0.283
Magnesium	0.189
Phosphorus	0.509
Potassium	1.77
Sodium	< 0.0100



**Table 6**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen F**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-43
<b>Location</b>	Mediapolis
<b>Regimen</b>	F
<b>Description</b>	3000-0
<b>BTID No.</b>	1756L
<b>Covance LIMS Number</b>	90100078
<b>Amino Acids (%)</b>	
Aspartic Acid	4.06
Threonine	1.38
Serine	1.72
Glutamic Acid	6.41
Proline	1.71
Glycine	1.56
Alanine	1.56
Cystine	0.500
Valine	1.78
Methionine	0.502
Isoleucine	1.69
Leucine	2.72
Tyrosine	1.24
Phenylalanine	1.79
Lysine	2.31
Histidine	0.944
Arginine	2.72
Tryptophan	0.432
*Lectin (H.U./mg)	0.798
**Trypsin Inhibitor (TIU/mg)	30.0
*H.U. - Hemagglutinating Unit	
**TIU - Trypsin Inhibitor Unit	
Raffinose (%)	0.334
Stachyose (%)	2.17
<b>Isoflavones (ppm)</b>	
Daidzein	< 10.0
Glycitein	< 10.0
Genistein	< 10.0
Daidzin	1020
Glycitin	182
Genistin	1350
Total Aglycone Equivalents	1580

**Table 6**  
**Compositional Analyses of**  
**Soy Seed - Fresh Weight**  
**Regimen F**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-43
<b>Location</b>	Mediapolis
<b>Regimen</b>	F
<b>Description</b>	3000-0
<b>BTID No.</b>	1756L
<b>Covance LIMS Number</b>	90100078
<b>Fatty Acids (%)</b>	
8:0 Caprylic	< 0.0200
10:0 Capric	< 0.0200
12:0 Lauric	< 0.0200
14:0 Myristic	< 0.0200
14:1 Myristoleic	< 0.0200
15:0 Pentadecanoic	< 0.0200
15:1 Pentadecenoic	< 0.0200
16:0 Palmitic	1.84
16:1 Palmitoleic	< 0.0200
17:0 Heptadecanoic	< 0.0200
17:1 Heptadecenoic	< 0.0200
18:0 Stearic	0.684
18:1 Oleic	3.89
18:2 Linoleic	8.71
18:3 Gamma Linolenic	< 0.0200
18:3 Linolenic	1.42
18:4 Octadecatetraenoic	< 0.0200
20:0 Arachidic	0.0532
20:1 Eicosenoic	0.0297
20:2 Eicosadienoic	< 0.0200
20:4 Arachidonic	< 0.0200
20:3 Eicosatrienoic	< 0.0200
20:5 Eicosapentaenoic	< 0.0200
22:0 Behenic	0.0553
22:1 Erucic	< 0.0200
22:5 Docosapentaenoic	< 0.0200
24:0 Lignoceric	< 0.0200
22:6 Docosaheptaenoic	< 0.0200
Folic Acid (ppm)	3.74
Vitamin B1/Thiamine HCl (ppm)	2.4
Vitamin B2/Riboflavin (ppm)	3.78
Vitamin K (ppm)	0.215
Vitamin A/Beta Carotene (ppm)	< 0.200

**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-01-11	HT08SOY002-01-12	HT08SOY002-01-13
<b>Location</b>	Marcus	Marcus	Marcus
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1747A	1747B	1747C
<b>Covance LIMS Number</b>	90100072	90100094	90100028
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	9.86	10.1	10.3
Protein	37.8	38.3	38.4
Total Fat	18.9	18.7	19.0
Ash	4.63	4.38	5.07
Carbohydrates	38.7	38.7	37.7
Acid Detergent Fiber (%)	16.5	18.5	16.2
Neutral Detergent Fiber (%)	18.7	21.5	18.3
Phytic Acid (%)	1.03	1.06	1.22
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	13.9	13.1	14.7
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	181	181	188
Delta Tocopherol	84.4	86.0	85.8
Total Tocopherols	280	280	289
<b>Minerals (ppm)</b>			
Iron	79.7	74.6	78.9
<b>Minerals (%)</b>			
Calcium	0.265	0.251	0.262
Magnesium	0.227	0.225	0.235
Phosphorus	0.508	0.489	0.561
Potassium	1.82	1.76	1.83
Sodium	< LOQ	< LOQ	0.0196

LOQ-Limit of Quantitation

**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-01-11</b>	<b>HT08SOY002-01-12</b>	<b>HT08SOY002-01-13</b>
<b>Location</b>	Marcus	Marcus	Marcus
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1747A	1747B	1747C
<b>Covance LIMS Number</b>	90100072	90100094	90100028

**Amino Acids (%)**

Aspartic Acid	4.40	4.30	4.38
Threonine	1.52	1.54	1.54
Serine	1.90	1.90	1.97
Glutamic Acid	6.77	6.60	6.76
Proline	1.85	1.82	1.84
Glycine	1.69	1.66	1.67
Alanine	1.70	1.66	1.68
Cystine	0.536	0.557	0.580
Valine	1.96	1.88	1.92
Methionine	0.523	0.532	0.533
Isoleucine	1.85	1.79	1.82
Leucine	3.02	2.96	2.99
Tyrosine	1.42	1.38	1.40
Phenylalanine	1.99	1.97	1.96
Lysine	2.47	2.44	2.45
Histidine	1.06	1.04	1.05
Arginine	2.97	2.93	2.95
Tryptophan	0.490	0.483	0.426

*Lectin (H.U./mg)	1.65	1.80	1.81
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**Trypsin Inhibitor (TIU/mg)	34.9	30.1	25.1
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\*H.U. - Hemagglutinating Unit

\*\*TIU - Trypsin Inhibitor Unit

Raffinose (%)	0.351	0.314	0.357
Stachyose (%)	2.30	2.04	2.61

**Isoflavones (ppm)**

Daidzein	15.4	12.8	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	12.5	12.6	11.3
Daidzin	1850	1790	1610
Glycitin	385	400	365
Genistin	2760	2710	2520
Total Aglycone Equivalents	3130	3070	2800

LOQ-Limit of Quantitation

**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-01-11	HT08SOY002-01-12	HT08SOY002-01-13
<b>Location</b>	Marcus	Marcus	Marcus
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1747A	1747B	1747C
<b>Covance LIMS Number</b>	90100072	90100094	90100028

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.81	1.77	1.82
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.734	0.733	0.763
18:1 Oleic	3.86	3.86	3.89
18:2 Linoleic	10.0	9.86	9.97
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.51	1.50	1.55
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0527	0.0495	0.0553
20:1 Eicosenoic	0.0268	0.0263	0.0268
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0545	0.0561	0.0575
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	3.78	3.35	3.09
Vitamin B1/Thiamine HCl (ppm)	4.2	3.7	2.3
Vitamin B2/Riboflavin (ppm)	3.61	3.73	3.86
Vitamin K (ppm)	0.148	0.135	0.223
Vitamin A/Beta Carotene (ppm)	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-02-11</b>	<b>HT08SOY002-02-12</b>	<b>HT08SOY002-02-13</b>
<b>Location</b>	Iowa Falls	Iowa Falls	Iowa Falls
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1748A	1748B	1748C
<b>Covance LIMS Number</b>	90100034	90100036	90300041
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	10.5	10.5	6.57
Protein	38.3	38.4	38.9
Total Fat	19.0	18.7	17.9
Ash	5.34	5.12	4.84
Carbohydrates	37.3	37.8	38.4
Acid Detergent Fiber (%)	14.2	14.3	19.4
Neutral Detergent Fiber (%)	16.8	17.0	21.8
Phytic Acid (%)	1.49	1.42	1.31
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	14.4	12.5	13.3
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	177	166	170
Delta Tocopherol	86.3	82.8	88.8
Total Tocopherols	277	261	272
<b>Minerals (ppm)</b>			
Iron	77.0	77.5	78.9
<b>Minerals (%)</b>			
Calcium	0.250	0.250	0.237
Magnesium	0.247	0.248	0.235
Phosphorus	0.658	0.629	0.584
Potassium	1.94	1.92	1.84
Sodium	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-02-11</b>	<b>HT08SOY002-02-12</b>	<b>HT08SOY002-02-13</b>
<b>Location</b>	Iowa Falls	Iowa Falls	Iowa Falls
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1748A	1748B	1748C
<b>Covance LIMS Number</b>	90100034	90100036	90300041
<b>Amino Acids (%)</b>			
Aspartic Acid	4.47	4.50	4.43
Threonine	1.58	1.59	1.59
Serine	2.06	2.06	2.00
Glutamic Acid	6.93	6.95	6.85
Proline	1.87	1.90	1.82
Glycine	1.72	1.72	1.67
Alanine	1.71	1.71	1.69
Cystine	0.604	0.581	0.627
Valine	1.91	1.91	1.86
Methionine	0.566	0.537	0.604
Isoleucine	1.82	1.82	1.80
Leucine	3.05	3.05	3.03
Tyrosine	1.39	1.45	1.42
Phenylalanine	1.98	2.00	2.02
Lysine	2.49	2.49	2.48
Histidine	1.06	1.07	1.06
Arginine	2.97	3.02	3.01
Tryptophan	0.420	0.426	0.443
*Lectin (H.U./mg)	1.71	1.89	1.56
**Trypsin Inhibitor (TIU/mg)	34.1	27.5	23.3
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.355	0.337	0.351
Stachyose (%)	2.63	2.58	2.83
<b>Isoflavones (ppm)</b>			
Daidzein	< LOQ	< LOQ	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	12.2	< LOQ	< LOQ
Daidzin	1460	1620	805
Glycitin	307	350	298
Genistin	2280	2490	1490
Total Aglycone Equivalents	2530	2770	1610

LOQ-Limit of Quantitation

**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-02-11</b>	<b>HT08SOY002-02-12</b>	<b>HT08SOY002-02-13</b>
<b>Location</b>	Iowa Falls	Iowa Falls	Iowa Falls
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1748A	1748B	1748C
<b>Covance LIMS Number</b>	90100034	90100036	90300041

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.98	1.80	1.78
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.756	0.761	0.725
18:1 Oleic	4.55	3.98	3.46
18:2 Linoleic	9.39	9.72	9.63
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.34	1.59	1.51
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0591	0.0563	0.0542
20:1 Eicosenoic	0.0352	0.0265	0.0245
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0618	0.0584	0.0537
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	2.50	2.63	2.58
Vitamin B1/Thiamine HCl (ppm)	2.0	1.8	2.2
Vitamin B2/Riboflavin (ppm)	3.63	5.64	4.02
Vitamin K (ppm)	< LOQ	< LOQ	< LOQ
Vitamin A/Beta Carotene (ppm)	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation



**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-03-11</b>	<b>HT08SOY002-03-12</b>	<b>HT08SOY002-03-13</b>
<b>Location</b>	Glidden	Glidden	Glidden
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1749A	1749B	1749C
<b>Covance LIMS Number</b>	90100037	90100096	90100116
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	9.73	9.99	9.91
Protein	37.4	37.7	37.7
Total Fat	18.9	18.4	18.2
Ash	5.39	5.13	5.37
Carbohydrates	38.2	38.8	38.7
Acid Detergent Fiber (%)	17.3	19.4	19.5
Neutral Detergent Fiber (%)	19.2	22.0	19.3
Phytic Acid (%)	1.54	1.61	1.70
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	13.2	13.7	13.2
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	182	173	175
Delta Tocopherol	78.9	78.1	77.6
Total Tocopherols	274	266	266
<b>Minerals (ppm)</b>			
Iron	93.4	94.4	91.0
<b>Minerals (%)</b>			
Calcium	0.280	0.280	0.265
Magnesium	0.254	0.248	0.243
Phosphorus	0.707	0.694	0.693
Potassium	1.97	1.99	1.90
Sodium	< LOQ	< LOQ	0.0151

LOQ-Limit of Quantitation

**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-03-11</b>	<b>HT08SOY002-03-12</b>	<b>HT08SOY002-03-13</b>
<b>Location</b>	Glidden	Glidden	Glidden
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1749A	1749B	1749C
<b>Covance LIMS Number</b>	90100037	90100096	90100116
<b>Amino Acids (%)</b>			
Aspartic Acid	4.38	4.33	4.44
Threonine	1.53	1.57	1.55
Serine	1.99	1.98	2.01
Glutamic Acid	6.72	6.63	6.86
Proline	1.79	1.84	1.85
Glycine	1.67	1.66	1.69
Alanine	1.66	1.64	1.69
Cystine	0.594	0.564	0.588
Valine	1.86	1.81	1.89
Methionine	0.543	0.513	0.556
Isoleucine	1.79	1.73	1.80
Leucine	2.97	2.93	3.00
Tyrosine	1.42	1.40	1.34
Phenylalanine	1.93	1.97	1.94
Lysine	2.44	2.46	2.50
Histidine	1.03	1.03	1.06
Arginine	2.92	2.93	2.97
Tryptophan	0.419	0.492	0.481
*Lectin (H.U./mg)	1.47	0.918	2.05
**Trypsin Inhibitor (TIU/mg)	23.3	28.9	37.9
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.392	0.339	0.416
Stachyose (%)	2.73	2.09	2.65
<b>Isoflavones (ppm)</b>			
Daidzein	< LOQ	12.1	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	13.1	13.9	13.0
Daidzin	1120	1130	1220
Glycitin	342	382	359
Genistin	2060	2090	2180
Total Aglycone Equivalents	2200	2270	2340

LOQ-Limit of Quantitation

**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-03-11	HT08SOY002-03-12	HT08SOY002-03-13
<b>Location</b>	Glidden	Glidden	Glidden
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1749A	1749B	1749C
<b>Covance LIMS Number</b>	90100037	90100096	90100116

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.75	1.76	1.73
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.731	0.744	0.724
18:1 Oleic	3.79	3.88	3.83
18:2 Linoleic	9.50	9.59	9.48
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.57	1.61	1.60
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0535	0.0512	0.0533
20:1 Eicosenoic	0.0264	0.0267	0.0270
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0555	0.0565	0.0557
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	2.56	2.74	2.91
Vitamin B1/Thiamine HCl (ppm)	3.5	3.0	3.0
Vitamin B2/Riboflavin (ppm)	5.10	4.38	3.45
Vitamin K (ppm)	< LOQ	0.172	0.152
Vitamin A/Beta Carotene (ppm)	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-04-11	HT08SOY002-04-12	HT08SOY002-04-13
<b>Location</b>	Perry	Perry	Perry
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1750A	1750B	1750C
<b>Covance LIMS Number</b>	90100065	90100126	90100061
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	9.64	9.40	9.87
Protein	36.9	36.9	37.3
Total Fat	19.0	19.2	20.4
Ash	5.43	5.30	5.27
Carbohydrates	38.7	38.6	37.1
Acid Detergent Fiber (%)	18.8	20.5	16.5
Neutral Detergent Fiber (%)	20.6	22.2	17.6
Phytic Acid (%)	1.51	1.58	1.53
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	18.4	16.6	17.4
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	206	201	199
Delta Tocopherol	75.0	76.4	77.3
Total Tocopherols	299	294	293
<b>Minerals (ppm)</b>			
Iron	97.7	90.1	95.6
<b>Minerals (%)</b>			
Calcium	0.294	0.285	0.286
Magnesium	0.245	0.241	0.243
Phosphorus	0.684	0.659	0.700
Potassium	2.01	1.98	2.03
Sodium	< LOQ	< LOQ	0.0152

LOQ-Limit of Quantitation

**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-04-11</b>	<b>HT08SOY002-04-12</b>	<b>HT08SOY002-04-13</b>
<b>Location</b>	Perry	Perry	Perry
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1750A	1750B	1750C
<b>Covance LIMS Number</b>	90100065	90100126	90100061
<b>Amino Acids (%)</b>			
Aspartic Acid	4.33	4.24	4.35
Threonine	1.57	1.48	1.54
Serine	1.97	1.95	1.92
Glutamic Acid	6.60	6.50	6.68
Proline	1.83	1.72	1.76
Glycine	1.66	1.63	1.66
Alanine	1.67	1.63	1.68
Cystine	0.585	0.529	0.551
Valine	1.84	1.82	1.91
Methionine	0.554	0.493	0.528
Isoleucine	1.76	1.73	1.83
Leucine	2.97	2.89	3.01
Tyrosine	1.41	1.38	1.42
Phenylalanine	1.98	1.90	2.01
Lysine	2.47	2.41	2.46
Histidine	1.04	1.02	1.05
Arginine	2.91	2.85	2.95
Tryptophan	0.457	0.417	0.465
*Lectin (H.U./mg)	1.78	0.908	4.29
**Trypsin Inhibitor (TIU/mg)	34.6	26.7	33.7
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.351	0.375	0.418
Stachyose (%)	2.12	2.73	2.67
<b>Isoflavones (ppm)</b>			
Daidzein	< LOQ	< LOQ	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	12.4	12.5	12.8
Daidzin	1080	1050	1110
Glycitin	401	403	356
Genistin	2050	1900	1960
Total Aglycone Equivalents	2200	2100	2140

LOQ-Limit of Quantitation

**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-04-11</b>	<b>HT08SOY002-04-12</b>	<b>HT08SOY002-04-13</b>
<b>Location</b>	Perry	Perry	Perry
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1750A	1750B	1750C
<b>Covance LIMS Number</b>	90100065	90100126	90100061
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.84	1.84	1.93
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.816	0.828	0.859
18:1 Oleic	3.90	4.02	4.24
18:2 Linoleic	10.1	10.1	10.9
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.58	1.58	1.70
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0582	0.0597	0.0605
20:1 Eicosenoic	0.0278	0.0290	0.0303
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0571	0.0583	0.0616
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	0.0222
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ
Folic Acid (ppm)	2.93	3.06	3.08
Vitamin B1/Thiamine HCl (ppm)	4.3	3.8	3.3
Vitamin B2/Riboflavin (ppm)	4.09	3.55	3.47
Vitamin K (ppm)	0.162	0.221	0.121
Vitamin A/Beta Carotene (ppm)	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-05-11</b>	<b>HT08SOY002-05-12</b>	<b>HT08SOY002-05-13</b>
<b>Location</b>	Adel	Adel	Adel
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1751A	1751B	1751C
<b>Covance LIMS Number</b>	90100035	90100077	90100097
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	9.33	8.80	9.37
Protein	37.3	37.9	37.6
Total Fat	19.9	19.7	19.6
Ash	5.30	5.60	5.17
Carbohydrates	37.6	36.7	37.5
Acid Detergent Fiber (%)	17.0	17.5	17.8
Neutral Detergent Fiber (%)	17.5	19.1	21.3
Phytic Acid (%)	1.42	1.60	1.58
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	14.4	16.8	15.3
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	189	201	193
Delta Tocopherol	69.4	64.9	66.4
Total Tocopherols	272	283	275
<b>Minerals (ppm)</b>			
Iron	79.7	82.1	89.3
<b>Minerals (%)</b>			
Calcium	0.293	0.298	0.279
Magnesium	0.260	0.257	0.241
Phosphorus	0.660	0.678	0.663
Potassium	1.99	2.05	2.06
Sodium	0.0202	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-05-11</b>	<b>HT08SOY002-05-12</b>	<b>HT08SOY002-05-13</b>
<b>Location</b>	Adel	Adel	Adel
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1751A	1751B	1751C
<b>Covance LIMS Number</b>	90100035	90100077	90100097
<b>Amino Acids (%)</b>			
Aspartic Acid	4.33	4.41	4.24
Threonine	1.52	1.51	1.52
Serine	1.99	1.86	1.89
Glutamic Acid	6.72	6.75	6.51
Proline	1.83	1.84	1.74
Glycine	1.67	1.70	1.63
Alanine	1.67	1.70	1.64
Cystine	0.561	0.565	0.552
Valine	1.85	1.95	1.84
Methionine	0.521	0.539	0.517
Isoleucine	1.79	1.85	1.77
Leucine	2.96	2.98	2.89
Tyrosine	1.38	1.39	1.38
Phenylalanine	1.94	1.95	1.94
Lysine	2.43	2.48	2.42
Histidine	1.02	1.04	1.01
Arginine	2.88	2.92	2.85
Tryptophan	0.401	0.480	0.458
*Lectin (H.U./mg)	1.89	1.89	1.19
**Trypsin Inhibitor (TIU/mg)	38.4	37.2	36.9
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.383	0.377	0.331
Stachyose (%)	2.64	2.41	2.17
<b>Isoflavones (ppm)</b>			
Daidzein	< LOQ	17.5	14.6
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	14.3	16.7	17.2
Daidzin	1100	1070	1080
Glycitin	363	387	445
Genistin	1870	1880	1880
Total Aglycone Equivalents	2100	2110	2140

LOQ-Limit of Quantitation



**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-05-11	HT08SOY002-05-12	HT08SOY002-05-13
<b>Location</b>	Adel	Adel	Adel
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1751A	1751B	1751C
<b>Covance LIMS Number</b>	90100035	90100077	90100097
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.89	1.89	1.85
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.814	0.837	0.815
18:1 Oleic	4.15	4.16	4.17
18:2 Linoleic	10.4	10.5	10.3
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.51	1.50	1.48
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0592	0.061	0.0554
20:1 Eicosenoic	0.0303	0.0311	0.0306
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0599	0.0613	0.0598
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	0.0263	< LOQ
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ
Folic Acid (ppm)	2.31	3.05	2.70
Vitamin B1/Thiamine HCl (ppm)	3.5	4.5	4.5
Vitamin B2/Riboflavin (ppm)	5.33	4.33	3.67
Vitamin K (ppm)	< LOQ	0.221	0.217
Vitamin A/Beta Carotene (ppm)	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-06-11</b>	<b>HT08SOY002-06-12</b>	<b>HT08SOY002-06-13</b>
<b>Location</b>	Winterset	Winterset	Winterset
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1752A	1752B	1752C
<b>Covance LIMS Number</b>	90100041	90100074	90100081
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	10.2	9.93	10.1
Protein	40.0	40.3	39.5
Total Fat	18.0	18.3	19.4
Ash	5.69	5.32	5.27
Carbohydrates	36.3	36.1	35.9
Acid Detergent Fiber (%)	15.8	17.9	17.0
Neutral Detergent Fiber (%)	17.0	19.5	18.9
Phytic Acid (%)	1.28	1.54	1.52
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	16.0	17.4	17.2
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	187	189	198
Delta Tocopherol	63.3	71.4	74.9
Total Tocopherols	266	278	290
<b>Minerals (ppm)</b>			
Iron	84.5	83.5	84.6
<b>Minerals (%)</b>			
Calcium	0.303	0.273	0.279
Magnesium	0.243	0.234	0.239
Phosphorus	0.638	0.651	0.640
Potassium	1.95	1.94	2.00
Sodium	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-06-11	HT08SOY002-06-12	HT08SOY002-06-13
<b>Location</b>	Winterset	Winterset	Winterset
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1752A	1752B	1752C
<b>Covance LIMS Number</b>	90100041	90100074	90100081

**Amino Acids (%)**

Aspartic Acid	4.57	4.61	4.58
Threonine	1.59	1.57	1.58
Serine	2.08	1.98	2.01
Glutamic Acid	6.99	7.06	7.02
Proline	1.87	1.90	1.91
Glycine	1.74	1.75	1.75
Alanine	1.73	1.74	1.75
Cystine	0.589	0.606	0.577
Valine	1.92	2.01	1.99
Methionine	0.561	0.561	0.553
Isoleucine	1.82	1.92	1.89
Leucine	3.07	3.10	3.09
Tyrosine	1.47	1.43	1.46
Phenylalanine	2.00	2.04	2.04
Lysine	2.56	2.58	2.57
Histidine	1.09	1.09	1.09
Arginine	3.11	3.09	3.09
Tryptophan	0.467	0.504	0.486

\*Lectin (H.U./mg)

\*\*Trypsin Inhibitor (TIU/mg)

\*H.U. - Hemagglutinating Unit

\*\*TIU - Trypsin Inhibitor Unit

Raffinose (%)	0.389	0.345	0.357
Stachyose (%)	2.91	2.39	2.47

**Isoflavones (ppm)**

Daidzein	< LOQ	< LOQ	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	< LOQ	< LOQ	< LOQ
Daidzin	855	973	969
Glycitin	298	308	335
Genistin	1590	1720	1710
Total Aglycone Equivalents	1700	1870	1880

LOQ-Limit of Quantitation

**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-06-11	HT08SOY002-06-12	HT08SOY002-06-13
<b>Location</b>	Winterset	Winterset	Winterset
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1752A	1752B	1752C
<b>Covance LIMS Number</b>	90100041	90100074	90100081

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.77	1.79	1.88
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	0.0225
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.732	0.751	0.790
18:1 Oleic	3.49	3.72	3.93
18:2 Linoleic	9.62	9.71	10.3
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.50	1.57	1.66
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0545	0.0554	0.0582
20:1 Eicosenoic	0.0274	0.0276	0.0290
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0570	0.0573	0.0592
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.0229	0.0229	< LOQ
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	2.62	3.42	3.27
Vitamin B1/Thiamine HCl (ppm)	3.2	3.9	4.2
Vitamin B2/Riboflavin (ppm)	6.53	3.73	4.13
Vitamin K (ppm)	0.131	0.229	0.140
Vitamin A/Beta Carotene (ppm)	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-11	HT08SOY002-07-12	HT08SOY002-07-13
<b>Location</b>	Osborn	Osborn	Osborn
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1753A	1753B	1753C
<b>Covance LIMS Number</b>	90100080	90100086	90100062
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	9.26	9.53	9.40
Protein	37.0	37.2	36.2
Total Fat	21.4	19.7	20.9
Ash	5.15	5.20	5.15
Carbohydrates	36.5	37.9	37.7
Acid Detergent Fiber (%)	18.8	19.0	16.8
Neutral Detergent Fiber (%)	20.2	23.0	18.7
Phytic Acid (%)	1.31	1.45	1.35
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	22.0	20.9	21.9
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	218	212	221
Delta Tocopherol	71.6	70.7	72.4
Total Tocopherols	312	304	315
<b>Minerals (ppm)</b>			
Iron	81.0	79.4	81.6
<b>Minerals (%)</b>			
Calcium	0.294	0.307	0.304
Magnesium	0.238	0.243	0.243
Phosphorus	0.586	0.611	0.624
Potassium	1.97	1.92	1.99
Sodium	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-11	HT08SOY002-07-12	HT08SOY002-07-13
<b>Location</b>	Osborn	Osborn	Osborn
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1753A	1753B	1753C
<b>Covance LIMS Number</b>	90100080	90100086	90100062
<b>Amino Acids (%)</b>			
Aspartic Acid	4.33	4.15	4.25
Threonine	1.51	1.48	1.53
Serine	1.91	1.82	1.92
Glutamic Acid	6.60	6.30	6.42
Proline	1.77	1.68	1.74
Glycine	1.65	1.60	1.62
Alanine	1.66	1.60	1.63
Cystine	0.582	0.586	0.615
Valine	1.88	1.81	1.81
Methionine	0.532	0.518	0.550
Isoleucine	1.81	1.78	1.73
Leucine	2.94	2.84	2.88
Tyrosine	1.39	1.28	1.37
Phenylalanine	1.93	1.90	1.93
Lysine	2.45	2.37	2.43
Histidine	1.03	0.995	1.02
Arginine	2.87	2.71	2.79
Tryptophan	0.449	0.457	0.466
*Lectin (H.U./mg)	1.82	1.22	1.51
**Trypsin Inhibitor (TIU/mg)	47.6	29.4	46.5
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.370	0.323	0.402
Stachyose (%)	2.42	2.08	2.42
<b>Isoflavones (ppm)</b>			
Daidzein	13.2	11.3	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	< LOQ	< LOQ	< LOQ
Daidzin	893	874	932
Glycitin	404	397	359
Genistin	1810	1820	1820
Total Aglycone Equivalents	1950	1930	1930

LOQ-Limit of Quantitation

**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-11	HT08SOY002-07-12	HT08SOY002-07-13
<b>Location</b>	Osborn	Osborn	Osborn
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1753A	1753B	1753C
<b>Covance LIMS Number</b>	90100080	90100086	90100062

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	2.10	1.91	2.08
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	0.0227	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.892	0.810	0.865
18:1 Oleic	4.50	4.15	4.35
18:2 Linoleic	11.2	10.3	11.1
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.65	1.55	1.64
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0660	0.0602	0.0636
20:1 Eicosenoic	0.0348	0.0314	0.0330
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0673	0.0618	0.0645
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.0234	< LOQ	< LOQ
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	3.18	2.96	2.88
Vitamin B1/Thiamine HCl (ppm)	4.3	3.8	4.3
Vitamin B2/Riboflavin (ppm)	4.17	4.54	4.09
Vitamin K (ppm)	0.219	0.218	0.258
Vitamin A/Beta Carotene (ppm)	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-08-11</b>	<b>HT08SOY002-08-12</b>	<b>HT08SOY002-08-13</b>
<b>Location</b>	Fithian	Fithian	Fithian
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1754A	1754B	1754C
<b>Covance LIMS Number</b>	90100064	90100029	90100030
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	10.2	9.84	10.3
Protein	40.0	37.4	39.7
Total Fat	19.5	20.6	19.5
Ash	5.33	5.12	5.13
Carbohydrates	35.2	36.8	35.7
Acid Detergent Fiber (%)	18.0	17.4	15.8
Neutral Detergent Fiber (%)	18.6	19.4	18.7
Phytic Acid (%)	1.34	1.38	1.33
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	21.5	21.5	18.2
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	196	214	191
Delta Tocopherol	66.5	74.9	71.5
Total Tocopherols	284	311	280
<b>Minerals (ppm)</b>			
Iron	75.1	76.6	77.1
<b>Minerals (%)</b>			
Calcium	0.271	0.278	0.266
Magnesium	0.245	0.247	0.247
Phosphorus	0.607	0.623	0.589
Potassium	1.93	1.93	1.87
Sodium	< LOQ	< LOQ	0.0172

LOQ-Limit of Quantitation



**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-08-11</b>	<b>HT08SOY002-08-12</b>	<b>HT08SOY002-08-13</b>
<b>Location</b>	Fithian	Fithian	Fithian
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1754A	1754B	1754C
<b>Covance LIMS Number</b>	90100064	90100029	90100030
<b>Amino Acids (%)</b>			
Aspartic Acid	4.70	4.34	4.54
Threonine	1.66	1.51	1.58
Serine	2.14	1.95	2.06
Glutamic Acid	7.24	6.63	6.97
Proline	1.97	1.77	1.88
Glycine	1.76	1.65	1.72
Alanine	1.75	1.65	1.71
Cystine	0.628	0.592	0.606
Valine	1.94	1.87	1.91
Methionine	0.582	0.530	0.552
Isoleucine	1.89	1.80	1.83
Leucine	3.18	2.95	3.07
Tyrosine	1.49	1.41	1.44
Phenylalanine	2.13	1.92	2.01
Lysine	2.62	2.42	2.51
Histidine	1.10	1.02	1.07
Arginine	3.20	2.86	3.01
Tryptophan	0.483	0.406	0.416
*Lectin (H.U./mg)	1.89	1.79	1.79
**Trypsin Inhibitor (TIU/mg)	41.5	28.4	33.4
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.428	0.402	0.402
Stachyose (%)	2.51	2.56	2.64
<b>Isoflavones (ppm)</b>			
Daidzein	< LOQ	< LOQ	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	< LOQ	< LOQ	< LOQ
Daidzin	925	1020	1010
Glycitin	369	439	347
Genistin	1690	1850	1760
Total Aglycone Equivalents	1860	2060	1940

LOQ-Limit of Quantitation

**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-08-11</b>	<b>HT08SOY002-08-12</b>	<b>HT08SOY002-08-13</b>
<b>Location</b>	Fithian	Fithian	Fithian
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1754A	1754B	1754C
<b>Covance LIMS Number</b>	90100064	90100029	90100030
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.94	2.05	1.91
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	0.0225	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.796	0.822	0.779
18:1 Oleic	4.28	4.40	4.20
18:2 Linoleic	10.3	10.9	10.2
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.44	1.56	1.45
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0586	0.0606	0.0575
20:1 Eicosenoic	0.0318	0.0335	0.0309
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0581	0.0614	0.0581
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ
Folic Acid (ppm)	3.13	2.89	2.75
Vitamin B1/Thiamine HCl (ppm)	4.0	3.2	3.2
Vitamin B2/Riboflavin (ppm)	4.41	4.78	4.77
Vitamin K (ppm)	0.232	0.301	0.282
Vitamin A/Beta Carotene (ppm)	0.243	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-09-11	HT08SOY002-09-12	HT08SOY002-09-13
<b>Location</b>	Sharpsville	Sharpsville	Sharpsville
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1755A	1755B	1755C
<b>Covance LIMS Number</b>	90100046	90100101	90100044
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	8.57	8.11	8.45
Protein	39.3	39.3	38.3
Total Fat	20.7	19.0	20.2
Ash	5.68	6.07	5.22
Carbohydrates	34.3	35.6	36.3
Acid Detergent Fiber (%)	15.4	19.6	17.3
Neutral Detergent Fiber (%)	18.8	22.3	19.4
Phytic Acid (%)	1.21	1.32	1.33
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	30.2	19.7	22.0
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	219	183	204
Delta Tocopherol	63.7	63.7	67.3
Total Tocopherols	313	267	294
<b>Minerals (ppm)</b>			
Iron	177 <sup>1</sup>	292 <sup>1</sup>	93.6
<b>Minerals (%)</b>			
Calcium	0.268	0.279	0.285
Magnesium	0.220	0.222	0.226
Phosphorus	0.592	0.588	0.624
Potassium	1.95	1.92	1.94
Sodium	< LOQ	< LOQ	0.0138

<sup>1</sup> Confirmed by retest.

LOQ-Limit of Quantitation

**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-09-11</b>	<b>HT08SOY002-09-12</b>	<b>HT08SOY002-09-13</b>
<b>Location</b>	Sharpsville	Sharpsville	Sharpsville
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1755A	1755B	1755C
<b>Covance LIMS Number</b>	90100046	90100101	90100044
<b>Amino Acids (%)</b>			
Aspartic Acid	4.53	4.44	4.30
Threonine	1.56	1.56	1.53
Serine	2.08	1.93	1.99
Glutamic Acid	6.98	6.85	6.59
Proline	1.85	1.85	1.71
Glycine	1.74	1.71	1.66
Alanine	1.73	1.70	1.66
Cystine	0.619	0.577	0.601
Valine	1.92	1.95	1.81
Methionine	0.573	0.533	0.552
Isoleucine	1.85	1.88	1.74
Leucine	3.05	3.04	2.91
Tyrosine	1.47	1.37	1.41
Phenylalanine	2.00	2.05	1.89
Lysine	2.54	2.51	2.45
Histidine	1.07	1.06	1.02
Arginine	3.04	2.97	2.86
Tryptophan	0.436	0.486	0.418
*Lectin (H.U./mg)	1.21	1.01	1.94
**Trypsin Inhibitor (TIU/mg)	35.0	35.3	38.8
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.354	0.317	0.375
Stachyose (%)	2.73	2.30	2.84
<b>Isoflavones (ppm)</b>			
Daidzein	< LOQ	< LOQ	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	< LOQ	< LOQ	< LOQ
Daidzin	480	541	578
Glycitin	352	390	397
Genistin	839	892	940
Total Aglycone Equivalents	1040	1130	1190

LOQ-Limit of Quantitation

**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-09-11	HT08SOY002-09-12	HT08SOY002-09-13
<b>Location</b>	Sharpsville	Sharpsville	Sharpsville
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1755A	1755B	1755C
<b>Covance LIMS Number</b>	90100046	90100101	90100044

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.97	1.80	1.92
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.942	0.841	0.907
18:1 Oleic	4.78	4.33	4.68
18:2 Linoleic	10.6	9.62	10.3
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.54	1.40	1.47
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0716	0.0600	0.0677
20:1 Eicosenoic	0.0363	0.0310	0.0341
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0679	0.0603	0.0638
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.0325	0.0251	0.0280
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	3.36	3.61	2.53
Vitamin B1/Thiamine HCl (ppm)	3.4	4.4	4.2
Vitamin B2/Riboflavin (ppm)	3.65	4.26	6.48
Vitamin K (ppm)	0.166	0.236	0.141
Vitamin A/Beta Carotene (ppm)	0.400	0.342	0.307

LOQ-Limit of Quantitation

**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-11	HT08SOY002-10-12	HT08SOY002-10-13
<b>Location</b>	Mediapolis	Mediapolis	Mediapolis
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1756A	1756B	1756C
<b>Covance LIMS Number</b>	90100130	90100073	90100138
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	9.11	9.29	9.21
Protein	37.2	38.1	38.4
Total Fat	18.4	19.5	18.8
Ash	5.17	5.20	5.17
Carbohydrates	39.3	37.2	37.6
Acid Detergent Fiber (%)	21.2	17.9	22.4
Neutral Detergent Fiber (%)	24.5	19.4	22.8
Phytic Acid (%)	1.35	1.41	1.30
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	17.2	19.4	16.9
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	215	205	211
Delta Tocopherol	73.2	68.2	70.6
Total Tocopherols	305	293	298
<b>Minerals (ppm)</b>			
Iron	77.6	79.7	77.0
<b>Minerals (%)</b>			
Calcium	0.332	0.332	0.324
Magnesium	0.239	0.243	0.242
Phosphorus	0.590	0.645	0.596
Potassium	1.79	1.91	1.82
Sodium	0.0150	< LOQ	0.0124

LOQ-Limit of Quantitation

**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-10-11</b>	<b>HT08SOY002-10-12</b>	<b>HT08SOY002-10-13</b>
<b>Location</b>	Mediapolis	Mediapolis	Mediapolis
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1756A	1756B	1756C
<b>Covance LIMS Number</b>	90100130	90100073	90100138
<b>Amino Acids (%)</b>			
Aspartic Acid	4.30	4.42	4.33
Threonine	1.50	1.51	1.55
Serine	1.99	1.90	1.96
Glutamic Acid	6.58	6.79	6.59
Proline	1.73	1.82	1.74
Glycine	1.66	1.70	1.67
Alanine	1.65	1.70	1.65
Cystine	0.553	0.560	0.586
Valine	1.80	1.95	1.83
Methionine	0.498	0.532	0.542
Isoleucine	1.73	1.86	1.77
Leucine	2.90	3.01	2.93
Tyrosine	1.40	1.36	1.41
Phenylalanine	1.90	1.97	1.96
Lysine	2.44	2.49	2.48
Histidine	1.02	1.05	1.04
Arginine	2.85	2.92	2.91
Tryptophan	0.408	0.482	0.438
*Lectin (H.U./mg)	1.69	2.11	1.39
**Trypsin Inhibitor (TIU/mg)	24.1	35.4	23.9
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.295	0.331	0.286
Stachyose (%)	2.52	2.37	2.32
<b>Isoflavones (ppm)</b>			
Daidzein	< LOQ	13.1	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	< LOQ	< LOQ	< LOQ
Daidzin	595	655	663
Glycitin	299	365	358
Genistin	1270	1310	1370
Total Aglycone Equivalents	1340	1470	1490

LOQ-Limit of Quantitation

**Table 7**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-10-11</b>	<b>HT08SOY002-10-12</b>	<b>HT08SOY002-10-13</b>
<b>Location</b>	Mediapolis	Mediapolis	Mediapolis
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1756A	1756B	1756C
<b>Covance LIMS Number</b>	90100130	90100073	90100138

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.78	1.90	1.84
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.733	0.783	0.759
18:1 Oleic	3.83	4.17	3.95
18:2 Linoleic	9.81	10.4	10.0
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.45	1.53	1.48
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0545	0.0582	0.0556
20:1 Eicosenoic	0.0296	0.0309	0.0305
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0563	0.0595	0.0576
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.0239	0.0298	0.0248
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	3.18	3.41	2.83
Vitamin B1/Thiamine HCl (ppm)	4.0	3.7	4.3
Vitamin B2/Riboflavin (ppm)	4.85	4.12	6.25
Vitamin K (ppm)	0.326	0.267	0.319
Vitamin A/Beta Carotene (ppm)	< LOQ	0.232	< LOQ

LOQ-Limit of Quantitation



**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-01-21	HT08SOY002-01-22	HT08SOY002-01-23
<b>Location</b>	Marcus	Marcus	Marcus
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1747D	1747E	1747F
<b>Covance LIMS Number</b>	90100066	90100095	90100131
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	10.1	9.86	10.4
Protein	38.8	38.5	38.3
Total Fat	18.7	18.5	17.4
Ash	4.43	4.17	4.63
Carbohydrates	38.0	38.8	39.7
Acid Detergent Fiber (%)	16.7	17.0	23.5
Neutral Detergent Fiber (%)	19.0	20.3	25.4
Phytic Acid (%)	0.933	1.04	0.886
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	14.8	12.2	11.7
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	187	175	182
Delta Tocopherol	83.0	83.3	87.5
Total Tocopherols	285	271	281
<b>Minerals (ppm)</b>			
Iron	75.4	76.3	75.9
<b>Minerals (%)</b>			
Calcium	0.240	0.239	0.230
Magnesium	0.208	0.205	0.205
Phosphorus	0.482	0.488	0.463
Potassium	1.77	1.70	1.70
Sodium	< LOQ	< LOQ	0.0153

LOQ-Limit of Quantitation

**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-01-21	HT08SOY002-01-22	HT08SOY002-01-23
<b>Location</b>	Marcus	Marcus	Marcus
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1747D	1747E	1747F
<b>Covance LIMS Number</b>	90100066	90100095	90100131
<b>Amino Acids (%)</b>			
Aspartic Acid	4.48	4.39	4.51
Threonine	1.60	1.58	1.56
Serine	2.02	2.01	2.10
Glutamic Acid	6.99	6.80	7.08
Proline	1.91	1.84	1.86
Glycine	1.70	1.66	1.72
Alanine	1.71	1.66	1.71
Cystine	0.565	0.538	0.513
Valine	1.94	1.85	1.90
Methionine	0.535	0.528	0.491
Isoleucine	1.87	1.78	1.80
Leucine	3.13	3.01	3.08
Tyrosine	1.46	1.42	1.44
Phenylalanine	2.09	2.03	2.02
Lysine	2.54	2.46	2.51
Histidine	1.08	1.05	1.07
Arginine	3.11	3.02	3.08
Tryptophan	0.455	0.473	0.383
*Lectin (H.U./mg)	1.48	1.39	1.13
**Trypsin Inhibitor (TIU/mg)	25.5	24.9	19.6
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.399	0.372	0.318
Stachyose (%)	2.34	2.16	2.13
<b>Isoflavones (ppm)</b>			
Daidzein	11.9	13.8	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	11.7	12.9	< LOQ
Daidzin	1690	1620	1640
Glycitin	422	450	441
Genistin	2460	2350	2340
Total Aglycone Equivalents	2860	2770	2750

LOQ-Limit of Quantitation

**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-01-21	HT08SOY002-01-22	HT08SOY002-01-23
<b>Location</b>	Marcus	Marcus	Marcus
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1747D	1747E	1747F
<b>Covance LIMS Number</b>	90100066	90100095	90100131

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.69	1.64	1.56
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.776	0.784	0.738
18:1 Oleic	4.32	4.23	4.02
18:2 Linoleic	9.64	9.56	8.97
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.38	1.44	1.36
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0549	0.0525	0.0530
20:1 Eicosenoic	0.0270	0.0271	0.0265
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0578	0.0582	0.0552
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	3.23	3.53	3.19
Vitamin B1/Thiamine HCl (ppm)	3.4	3.2	3.2
Vitamin B2/Riboflavin (ppm)	3.40	3.89	5.36
Vitamin K (ppm)	0.156	0.153	0.134
Vitamin A/Beta Carotene (ppm)	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-02-21</b>	<b>HT08SOY002-02-22</b>	<b>HT08SOY002-02-23</b>
<b>Location</b>	Iowa Falls	Iowa Falls	Iowa Falls
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1748D	1748E	1748F
<b>Covance LIMS Number</b>	90100023	90100033	90100022
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	11.5	10.9	11.2
Protein	38.9	39.4	39.8
Total Fat	18.5	18.0	17.7
Ash	4.95	5.11	4.91
Carbohydrates	37.6	37.6	37.6
Acid Detergent Fiber (%)	16.9	15.4	17.6
Neutral Detergent Fiber (%)	17.7	17.5	17.8
Phytic Acid (%)	1.38	1.43	1.36
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	15.5	12.3	14.2
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	195	176	188
Delta Tocopherol	86.8	86.9	90.0
Total Tocopherols	298	275	293
<b>Minerals (ppm)</b>			
Iron	78.3	73.5	75.3
<b>Minerals (%)</b>			
Calcium	0.231	0.226	0.223
Magnesium	0.226	0.227	0.226
Phosphorus	0.612	0.640	0.615
Potassium	1.86	1.86	1.81
Sodium	0.0116	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-02-21</b>	<b>HT08SOY002-02-22</b>	<b>HT08SOY002-02-23</b>
<b>Location</b>	Iowa Falls	Iowa Falls	Iowa Falls
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1748D	1748E	1748F
<b>Covance LIMS Number</b>	90100023	90100033	90100022
<b>Amino Acids (%)</b>			
Aspartic Acid	4.45	4.60	4.53
Threonine	1.55	1.60	1.55
Serine	2.00	2.10	2.06
Glutamic Acid	6.92	7.21	7.12
Proline	1.89	1.94	1.98
Glycine	1.71	1.75	1.73
Alanine	1.69	1.74	1.72
Cystine	0.610	0.609	0.605
Valine	1.93	1.95	1.96
Methionine	0.562	0.569	0.582
Isoleucine	1.83	1.85	1.86
Leucine	3.04	3.12	3.09
Tyrosine	1.40	1.46	1.36
Phenylalanine	1.99	2.04	2.03
Lysine	2.49	2.54	2.52
Histidine	1.06	1.09	1.08
Arginine	3.03	3.14	3.10
Tryptophan	0.398	0.416	0.434
*Lectin (H.U./mg)	1.25	1.44	1.10
**Trypsin Inhibitor (TIU/mg)	25.5	24.9	24.5
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.365	0.345	0.345
Stachyose (%)	2.53	2.45	2.44
<b>Isoflavones (ppm)</b>			
Daidzein	15.1	< LOQ	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	15.7	11.4	< LOQ
Daidzin	1530	1440	1500
Glycitin	371	345	346
Genistin	2280	2040	2060
Total Aglycone Equivalents	2620	2380	2420

LOQ-Limit of Quantitation

**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-02-21	HT08SOY002-02-22	HT08SOY002-02-23
<b>Location</b>	Iowa Falls	Iowa Falls	Iowa Falls
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1748D	1748E	1748F
<b>Covance LIMS Number</b>	90100023	90100033	90100022

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.64	1.57	1.57
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.798	0.785	0.775
18:1 Oleic	4.47	4.44	4.52
18:2 Linoleic	9.18	8.82	8.78
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.50	1.44	1.44
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0574	0.0571	0.0570
20:1 Eicosenoic	0.0271	0.0264	0.0268
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0595	0.0604	0.0601
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	3.04	2.88	2.88
Vitamin B1/Thiamine HCl (ppm)	1.9	1.7	1.9
Vitamin B2/Riboflavin (ppm)	3.58	3.80	4.01
Vitamin K (ppm)	< LOQ	< LOQ	< LOQ
Vitamin A/Beta Carotene (ppm)	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-03-21	HT08SOY002-03-22	HT08SOY002-03-23
<b>Location</b>	Glidden	Glidden	Glidden
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1749D	1749E	1749F
<b>Covance LIMS Number</b>	90100135	90100069	90100049
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	10.0	9.91	9.83
Protein	38.7	38.1	38.4
Total Fat	17.8	19.2	19.6
Ash	5.56	5.17	5.47
Carbohydrates	38.0	37.5	36.5
Acid Detergent Fiber (%)	18.9	16.1	14.1
Neutral Detergent Fiber (%)	21.4	18.0	16.9
Phytic Acid (%)	1.91	1.68	1.87
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	12.2	16.8	17.1
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	180	201	193
Delta Tocopherol	80.7	83.4	84.0
Total Tocopherols	273	301	294
<b>Minerals (ppm)</b>			
Iron	90.7	84.0	90.7
<b>Minerals (%)</b>			
Calcium	0.261	0.239	0.248
Magnesium	0.239	0.218	0.231
Phosphorus	0.716	0.682	0.769
Potassium	1.94	1.91	2.04
Sodium	0.0124	< LOQ	0.0163

LOQ-Limit of Quantitation

**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-03-21	HT08SOY002-03-22	HT08SOY002-03-23
<b>Location</b>	Glidden	Glidden	Glidden
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1749D	1749E	1749F
<b>Covance LIMS Number</b>	90100135	90100069	90100049

**Amino Acids (%)**

Aspartic Acid	4.47	4.41	4.44
Threonine	1.61	1.58	1.56
Serine	2.02	1.98	2.05
Glutamic Acid	6.90	6.82	6.90
Proline	1.87	1.82	1.82
Glycine	1.70	1.69	1.69
Alanine	1.70	1.70	1.69
Cystine	0.589	0.597	0.600
Valine	1.89	1.91	1.87
Methionine	0.550	0.546	0.569
Isoleucine	1.80	1.83	1.76
Leucine	3.03	3.04	3.01
Tyrosine	1.43	1.41	1.42
Phenylalanine	2.02	2.02	1.95
Lysine	2.53	2.52	2.50
Histidine	1.07	1.06	1.05
Arginine	3.09	3.04	3.04
Tryptophan	0.448	0.453	0.430

\*Lectin (H.U./mg)

0.819 1.94 1.15

\*\*Trypsin Inhibitor (TIU/mg)

28.1 33.3 41.5

\*H.U. - Hemagglutinating Unit

\*\*TIU - Trypsin Inhibitor Unit

Raffinose (%)

0.361 0.456 0.408

Stachyose (%)

2.36 2.45 2.60

**Isoflavones (ppm)**

Daidzein	< LOQ	11.3	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	< LOQ	14.7	12.2
Daidzin	1160	1190	1180
Glycitin	419	421	420
Genistin	1870	1980	1900
Total Aglycone Equivalents	2140	2250	2180

LOQ-Limit of Quantitation



**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-03-21	HT08SOY002-03-22	HT08SOY002-03-23
<b>Location</b>	Glidden	Glidden	Glidden
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1749D	1749E	1749F
<b>Covance LIMS Number</b>	90100135	90100069	90100049
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.58	1.72	1.72
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.770	0.845	0.850
18:1 Oleic	4.26	4.60	4.71
18:2 Linoleic	8.88	9.61	9.85
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.47	1.52	1.64
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0549	0.0598	0.0613
20:1 Eicosenoic	0.0263	0.0279	0.0295
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0584	0.0613	0.0637
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	0.0228	0.0255
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ
Folic Acid (ppm)	2.94	3.02	3.25
Vitamin B1/Thiamine HCl (ppm)	2.7	3.3	1.9
Vitamin B2/Riboflavin (ppm)	6.16	3.79	4.64
Vitamin K (ppm)	0.181	0.203	0.139
Vitamin A/Beta Carotene (ppm)	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-04-21	HT08SOY002-04-22	HT08SOY002-04-23
<b>Location</b>	Perry	Perry	Perry
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1750D	1750E	1750F
<b>Covance LIMS Number</b>	90100091	90100111	90100092
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	9.07	8.89	9.36
Protein	37.1	37.1	37.2
Total Fat	19.4	18.3	19.6
Ash	5.21	5.15	5.38
Carbohydrates	38.4	39.4	37.8
Acid Detergent Fiber (%)	17.5	18.4	16.5
Neutral Detergent Fiber (%)	20.8	20.5	20.4
Phytic Acid (%)	1.26	1.58	1.58
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	19.5	17.9	18.1
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	199	194	195
Delta Tocopherol	78.5	72.7	73.4
Total Tocopherols	297	285	287
<b>Minerals (ppm)</b>			
Iron	85.5	92.3	89.6
<b>Minerals (%)</b>			
Calcium	0.262	0.259	0.264
Magnesium	0.214	0.225	0.221
Phosphorus	0.596	0.648	0.656
Potassium	1.85	1.77	1.90
Sodium	< LOQ	0.0201	< LOQ

LOQ-Limit of Quantitation

**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-04-21	HT08SOY002-04-22	HT08SOY002-04-23
<b>Location</b>	Perry	Perry	Perry
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1750D	1750E	1750F
<b>Covance LIMS Number</b>	90100091	90100111	90100092
<b>Amino Acids (%)</b>			
Aspartic Acid	4.25	4.24	4.08
Threonine	1.52	1.47	1.45
Serine	1.87	1.91	1.75
Glutamic Acid	6.55	6.56	6.30
Proline	1.77	1.81	1.72
Glycine	1.65	1.64	1.60
Alanine	1.66	1.65	1.60
Cystine	0.552	0.559	0.555
Valine	1.89	1.85	1.83
Methionine	0.509	0.518	0.523
Isoleucine	1.81	1.77	1.75
Leucine	2.94	2.93	2.84
Tyrosine	1.33	1.37	1.33
Phenylalanine	1.97	1.92	1.89
Lysine	2.42	2.40	2.34
Histidine	1.03	1.02	0.987
Arginine	2.86	2.92	2.77
Tryptophan	0.467	0.445	0.478
*Lectin (H.U./mg)	1.13	1.80	1.09
**Trypsin Inhibitor (TIU/mg)	37.2	23.4	36.0
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.389	0.421	0.468
Stachyose (%)	2.12	2.62	2.28
<b>Isoflavones (ppm)</b>			
Daidzein	< LOQ	< LOQ	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	11.3	11.2	13.8
Daidzin	1180	1130	1100
Glycitin	403	438	499
Genistin	1990	1910	1780
Total Aglycone Equivalents	2230	2170	2120

LOQ-Limit of Quantitation

**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-04-21	HT08SOY002-04-22	HT08SOY002-04-23
<b>Location</b>	Perry	Perry	Perry
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1750D	1750E	1750F
<b>Covance LIMS Number</b>	90100091	90100111	90100092

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.70	1.62	1.71
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.828	0.828	0.886
18:1 Oleic	4.30	4.28	4.56
18:2 Linoleic	9.77	9.22	9.81
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.52	1.44	1.52
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0576	0.0589	0.0619
20:1 Eicosenoic	0.0290	0.0283	0.0302
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0580	0.0582	0.0600
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	0.0227
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	3.04	3.20	2.95
Vitamin B1/Thiamine HCl (ppm)	3.6	3.5	4.0
Vitamin B2/Riboflavin (ppm)	4.60	6.03	3.77
Vitamin K (ppm)	0.205	0.190	0.227
Vitamin A/Beta Carotene (ppm)	0.228	< LOQ	0.234

LOQ-Limit of Quantitation

**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-05-21</b>	<b>HT08SOY002-05-22</b>	<b>HT08SOY002-05-23</b>
<b>Location</b>	Adel	Adel	Adel
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1751D	1751E	1751F
<b>Covance LIMS Number</b>	90100102	90100119	90100025
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	9.51	9.32	9.86
Protein	39.0	36.9	38.6
Total Fat	16.6	18.4	19.0
Ash	4.97	5.37	5.06
Carbohydrates	39.5	39.3	37.4
Acid Detergent Fiber (%)	18.1	18.4	16.8
Neutral Detergent Fiber (%)	21.0	19.4	19.5
Phytic Acid (%)	1.22	1.54	1.43
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	19.9	16.1	18.2
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	192	191	209
Delta Tocopherol	61.0	71.2	80.4
Total Tocopherols	273	278	307
<b>Minerals (ppm)</b>			
Iron	85.4	82.5	78.4
<b>Minerals (%)</b>			
Calcium	0.308	0.253	0.260
Magnesium	0.267	0.230	0.233
Phosphorus	0.658	0.662	0.640
Potassium	1.88	1.87	1.84
Sodium	0.0166	< LOQ	0.0400

LOQ-Limit of Quantitation

**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-05-21	HT08SOY002-05-22	HT08SOY002-05-23
<b>Location</b>	Adel	Adel	Adel
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1751D	1751E	1751F
<b>Covance LIMS Number</b>	90100102	90100119	90100025
<b>Amino Acids (%)</b>			
Aspartic Acid	4.53	4.23	4.36
Threonine	1.55	1.50	1.52
Serine	2.03	1.96	1.96
Glutamic Acid	7.09	6.52	6.76
Proline	1.91	1.76	1.89
Glycine	1.73	1.62	1.69
Alanine	1.73	1.62	1.68
Cystine	0.583	0.592	0.607
Valine	1.98	1.78	1.90
Methionine	0.532	0.548	0.550
Isoleucine	1.87	1.69	1.80
Leucine	3.07	2.87	2.96
Tyrosine	1.44	1.36	1.36
Phenylalanine	2.01	1.87	1.93
Lysine	2.56	2.40	2.44
Histidine	1.09	1.01	1.04
Arginine	3.09	2.83	2.93
Tryptophan	0.445	0.395	0.425
*Lectin (H.U./mg)	0.655	1.26	1.90
**Trypsin Inhibitor (TIU/mg)	36.8	28.2	25.6
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.338	0.407	0.425
Stachyose (%)	2.09	2.43	2.56
<b>Isoflavones (ppm)</b>			
Daidzein	12.8	< LOQ	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	15.4	13.0	13.4
Daidzin	978	1170	1220
Glycitin	419	511	450
Genistin	1540	1870	1890
Total Aglycone Equivalents	1860	2230	2220

LOQ-Limit of Quantitation

**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-05-21	HT08SOY002-05-22	HT08SOY002-05-23
<b>Location</b>	Adel	Adel	Adel
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1751D	1751E	1751F
<b>Covance LIMS Number</b>	90100102	90100119	90100025

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.51	1.59	1.65
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.759	0.768	0.826
18:1 Oleic	3.85	4.16	4.50
18:2 Linoleic	8.62	9.09	9.37
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.24	1.36	1.36
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0548	0.0544	0.0588
20:1 Eicosenoic	0.0265	0.0276	0.0288
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0554	0.0554	0.0588
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	3.07	3.11	2.96
Vitamin B1/Thiamine HCl (ppm)	4.6	4.3	2.8
Vitamin B2/Riboflavin (ppm)	5.26	4.00	3.96
Vitamin K (ppm)	0.233	0.260	< LOQ
Vitamin A/Beta Carotene (ppm)	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-06-21	HT08SOY002-06-22	HT08SOY002-06-23
<b>Location</b>	Winterset	Winterset	Winterset
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1752D	1752E	1752F
<b>Covance LIMS Number</b>	90100139	90100118	90100141
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	10.1	10.3	9.58
Protein	38.7	39.7	38.9
Total Fat	16.9	17.2	16.6
Ash	5.35	4.97	5.10
Carbohydrates	39.0	38.1	39.4
Acid Detergent Fiber (%)	19.5	19.3	21.1
Neutral Detergent Fiber (%)	21.1	22.1	24.0
Phytic Acid (%)	1.36	1.34	1.31
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	13.5	15.7	13.6
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	198	185	196
Delta Tocopherol	84.1	69.6	74.7
Total Tocopherols	296	271	284
<b>Minerals (ppm)</b>			
Iron	84.0	76.7	82.0
<b>Minerals (%)</b>			
Calcium	0.238	0.247	0.244
Magnesium	0.235	0.219	0.226
Phosphorus	0.657	0.606	0.620
Potassium	1.92	1.79	1.85
Sodium	0.0175	0.0137	0.0200

LOQ-Limit of Quantitation



**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-06-21	HT08SOY002-06-22	HT08SOY002-06-23
<b>Location</b>	Winterset	Winterset	Winterset
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1752D	1752E	1752F
<b>Covance LIMS Number</b>	90100139	90100118	90100141
<b>Amino Acids (%)</b>			
Aspartic Acid	4.38	4.60	4.48
Threonine	1.58	1.58	1.60
Serine	1.99	2.10	2.02
Glutamic Acid	6.73	7.13	6.91
Proline	1.76	1.93	1.81
Glycine	1.69	1.74	1.73
Alanine	1.66	1.74	1.70
Cystine	0.577	0.574	0.587
Valine	1.86	1.95	1.92
Methionine	0.529	0.548	0.554
Isoleucine	1.79	1.86	1.84
Leucine	2.97	3.12	3.05
Tyrosine	1.41	1.45	1.44
Phenylalanine	1.98	2.06	2.03
Lysine	2.51	2.58	2.57
Histidine	1.06	1.09	1.08
Arginine	2.97	3.10	3.07
Tryptophan	0.436	0.431	0.446
*Lectin (H.U./mg)	1.00	1.74	1.05
**Trypsin Inhibitor (TIU/mg)	31.5	24.9	23.8
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.280	0.327	0.319
Stachyose (%)	2.16	2.41	2.43
<b>Isoflavones (ppm)</b>			
Daidzein	< LOQ	< LOQ	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	< LOQ	< LOQ	< LOQ
Daidzin	1050	993	954
Glycitin	350	350	398
Genistin	1790	1710	1580
Total Aglycone Equivalents	1980	1900	1820

LOQ-Limit of Quantitation

**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-06-21	HT08SOY002-06-22	HT08SOY002-06-23
<b>Location</b>	Winterset	Winterset	Winterset
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1752D	1752E	1752F
<b>Covance LIMS Number</b>	90100139	90100118	90100141

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.56	1.58	1.53
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.711	0.736	0.709
18:1 Oleic	3.79	3.87	3.75
18:2 Linoleic	8.72	8.87	8.50
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.41	1.40	1.36
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0515	0.0533	0.0516
20:1 Eicosenoic	0.0261	0.0270	0.0259
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0554	0.0563	0.0544
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	2.88	3.18	2.95
Vitamin B1/Thiamine HCl (ppm)	3.8	3.7	3.9
Vitamin B2/Riboflavin (ppm)	4.24	3.40	4.17
Vitamin K (ppm)	0.268	0.268	0.243
Vitamin A/Beta Carotene (ppm)	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-21	HT08SOY002-07-22	HT08SOY002-07-23
<b>Location</b>	Osborn	Osborn	Osborn
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1753D	1753E	1753F
<b>Covance LIMS Number</b>	90100059	90100137	90100031
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	9.62	9.41	9.79
Protein	36.8	37.4	37.9
Total Fat	21.0	18.9	20.0
Ash	4.91	5.09	5.23
Carbohydrates	37.2	38.6	36.9
Acid Detergent Fiber (%)	17.6	22.1	16.3
Neutral Detergent Fiber (%)	19.5	24.6	18.6
Phytic Acid (%)	1.07	1.32	1.40
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	27.8	22.5	25.6
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	221	216	205
Delta Tocopherol	69.5	70.5	67.7
Total Tocopherols	319	309	298
<b>Minerals (ppm)</b>			
Iron	77.7	77.7	79.9
<b>Minerals (%)</b>			
Calcium	0.283	0.281	0.286
Magnesium	0.229	0.237	0.241
Phosphorus	0.572	0.576	0.619
Potassium	1.88	1.81	1.86
Sodium	0.0145	0.0144	< LOQ

LOQ-Limit of Quantitation

**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-21	HT08SOY002-07-22	HT08SOY002-07-23
<b>Location</b>	Osborn	Osborn	Osborn
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1753D	1753E	1753F
<b>Covance LIMS Number</b>	90100059	90100137	90100031

**Amino Acids (%)**

Aspartic Acid	4.27	4.43	4.33
Threonine	1.55	1.59	1.53
Serine	1.96	2.02	2.01
Glutamic Acid	6.48	6.79	6.65
Proline	1.76	1.82	1.82
Glycine	1.64	1.68	1.66
Alanine	1.64	1.68	1.66
Cystine	0.620	0.585	0.597
Valine	1.79	1.85	1.83
Methionine	0.550	0.541	0.531
Isoleucine	1.74	1.79	1.75
Leucine	2.91	3.00	2.95
Tyrosine	1.39	1.42	1.40
Phenylalanine	1.95	2.01	1.92
Lysine	2.43	2.51	2.43
Histidine	1.02	1.06	1.02
Arginine	2.88	2.99	2.92
Tryptophan	0.438	0.411	0.400

*Lectin (H.U./mg)	3.08	1.20	1.24
**Trypsin Inhibitor (TIU/mg)	42.4	26.9	28.8

\*H.U. - Hemagglutinating Unit

\*\*TIU - Trypsin Inhibitor Unit

Raffinose (%)	0.372	0.350	0.378
Stachyose (%)	2.62	2.47	2.70

**Isoflavones (ppm)**

Daidzein	< LOQ	< LOQ	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	< LOQ	< LOQ	< LOQ
Daidzin	775	738	670
Glycitin	402	380	389
Genistin	1570	1500	1360
Total Aglycone Equivalents	1710	1630	1510

LOQ-Limit of Quantitation

**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-21	HT08SOY002-07-22	HT08SOY002-07-23
<b>Location</b>	Osborn	Osborn	Osborn
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1753D	1753E	1753F
<b>Covance LIMS Number</b>	90100059	90100137	90100031

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.94	1.74	1.84
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	0.0221	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.912	0.806	0.880
18:1 Oleic	4.80	4.40	4.73
18:2 Linoleic	10.9	9.65	10.1
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.57	1.40	1.49
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0647	0.0582	0.0636
20:1 Eicosenoic	0.0344	0.0312	0.0324
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0655	0.0586	0.0626
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.0282	0.0246	0.0244
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	2.52	2.78	2.95
Vitamin B1/Thiamine HCl (ppm)	5.1	3.2	2.1
Vitamin B2/Riboflavin (ppm)	4.43	6.19	3.91
Vitamin K (ppm)	0.186	0.322	0.126
Vitamin A/Beta Carotene (ppm)	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-08-21	HT08SOY002-08-22	HT08SOY002-08-23
<b>Location</b>	Fithian	Fithian	Fithian
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1754D	1754E	1754F
<b>Covance LIMS Number</b>	90100040	90100082	90100136
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	9.80	10.2	10.2
Protein	38.4	37.9	37.5
Total Fat	19.7	21.0	19.2
Ash	4.92	5.07	5.14
Carbohydrates	37.0	36.1	38.2
Acid Detergent Fiber (%)	17.6	17.9	20.0
Neutral Detergent Fiber (%)	18.8	19.4	21.4
Phytic Acid (%)	1.19	1.47	1.41
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	21.7	21.9	17.1
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	206	216	202
Delta Tocopherol	71.6	75.4	72.7
Total Tocopherols	299	313	292
<b>Minerals (ppm)</b>			
Iron	76.4	73.3	76.6
<b>Minerals (%)</b>			
Calcium	0.246	0.252	0.246
Magnesium	0.231	0.225	0.231
Phosphorus	0.579	0.647	0.627
Potassium	1.82	1.92	1.85
Sodium	< LOQ	< LOQ	0.0231

LOQ-Limit of Quantitation

**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-08-21	HT08SOY002-08-22	HT08SOY002-08-23
<b>Location</b>	Fithian	Fithian	Fithian
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1754D	1754E	1754F
<b>Covance LIMS Number</b>	90100040	90100082	90100136
<b>Amino Acids (%)</b>			
Aspartic Acid	4.26	4.34	4.39
Threonine	1.49	1.51	1.58
Serine	1.95	1.93	1.99
Glutamic Acid	6.57	6.67	6.75
Proline	1.72	1.82	1.77
Glycine	1.62	1.66	1.68
Alanine	1.62	1.67	1.68
Cystine	0.584	0.587	0.601
Valine	1.80	1.89	1.88
Methionine	0.549	0.547	0.546
Isoleucine	1.72	1.82	1.82
Leucine	2.89	2.96	3.02
Tyrosine	1.36	1.35	1.43
Phenylalanine	1.90	1.94	2.00
Lysine	2.38	2.46	2.52
Histidine	1.01	1.03	1.06
Arginine	2.87	2.88	2.97
Tryptophan	0.443	0.477	0.441
*Lectin (H.U./mg)	1.43	1.70	1.01
**Trypsin Inhibitor (TIU/mg)	26.8	41.6	29.6
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.446	0.526	0.411
Stachyose (%)	2.46	2.51	2.34
<b>Isoflavones (ppm)</b>			
Daidzein	< LOQ	13.1	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	< LOQ	< LOQ	< LOQ
Daidzin	891	989	925
Glycitin	404	468	420
Genistin	1560	1750	1670
Total Aglycone Equivalents	1770	2000	1870

LOQ-Limit of Quantitation

**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-08-21	HT08SOY002-08-22	HT08SOY002-08-23
<b>Location</b>	Fithian	Fithian	Fithian
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1754D	1754E	1754F
<b>Covance LIMS Number</b>	90100040	90100082	90100136

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.80	1.93	1.76
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.817	0.859	0.786
18:1 Oleic	4.70	4.92	4.52
18:2 Linoleic	10.1	10.9	9.84
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.40	1.53	1.38
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.058	0.0612	0.0558
20:1 Eicosenoic	0.0316	0.0355	0.0317
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0584	0.0630	0.0586
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.0229	0.0242	0.0255
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	2.52	3.01	2.86
Vitamin B1/Thiamine HCl (ppm)	2.8	3.6	3.2
Vitamin B2/Riboflavin (ppm)	3.58	4.06	5.77
Vitamin K (ppm)	< LOQ	0.223	0.248
Vitamin A/Beta Carotene (ppm)	0.252	0.327	0.331

LOQ-Limit of Quantitation



**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-09-21	HT08SOY002-09-22	HT08SOY002-09-23
<b>Location</b>	Sharpsville	Sharpsville	Sharpsville
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1755D	1755E	1755F
<b>Covance LIMS Number</b>	90100057	90100089	90100127
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	7.90	8.26	8.18
Protein	38.7	38.3	38.3
Total Fat	20.2	19.7	19.7
Ash	5.56	5.14	5.19
Carbohydrates	35.6	36.8	36.8
Acid Detergent Fiber (%)	18.0	17.2	18.7
Neutral Detergent Fiber (%)	19.4	21.7	22.0
Phytic Acid (%)	1.31	1.43	1.45
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	26.6	24.2	28.2
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	214	210	215
Delta Tocopherol	64.5	68.0	60.8
Total Tocopherols	305	303	304
<b>Minerals (ppm)</b>			
Iron	147 <sup>1</sup>	82.5	80.5
<b>Minerals (%)</b>			
Calcium	0.254	0.264	0.264
Magnesium	0.217	0.216	0.223
Phosphorus	0.621	0.626	0.644
Potassium	1.93	1.91	1.93
Sodium	0.0131	< LOQ	0.0191

<sup>1</sup> Confirmed by retest.

LOQ-Limit of Quantitation

**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-09-21	HT08SOY002-09-22	HT08SOY002-09-23
<b>Location</b>	Sharpsville	Sharpsville	Sharpsville
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1755D	1755E	1755F
<b>Covance LIMS Number</b>	90100057	90100089	90100127

**Amino Acids (%)**

Aspartic Acid	4.47	4.32	4.39
Threonine	1.60	1.53	1.54
Serine	2.01	1.86	2.04
Glutamic Acid	6.92	6.64	6.75
Proline	1.85	1.82	1.81
Glycine	1.72	1.67	1.70
Alanine	1.70	1.68	1.70
Cystine	0.602	0.571	0.573
Valine	1.91	1.91	1.84
Methionine	0.555	0.534	0.535
Isoleucine	1.85	1.84	1.76
Leucine	3.05	2.96	2.96
Tyrosine	1.44	1.35	1.43
Phenylalanine	2.05	1.98	1.95
Lysine	2.53	2.46	2.49
Histidine	1.07	1.03	1.04
Arginine	3.05	2.90	2.97
Tryptophan	0.463	0.471	0.404

*Lectin (H.U./mg)	1.65	0.934	0.939
**Trypsin Inhibitor (TIU/mg)	37.4	28.8	29.8

\*H.U. - Hemagglutinating Unit

\*\*TIU - Trypsin Inhibitor Unit

Raffinose (%)	0.372	0.401	0.360
Stachyose (%)	2.50	2.32	2.88

**Isoflavones (ppm)**

Daidzein	< LOQ	13.2	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	< LOQ	< LOQ	< LOQ
Daidzin	515	526	416
Glycitin	438	455	447
Genistin	746	771	627
Total Aglycone Equivalents	1060	1100	930

LOQ-Limit of Quantitation

**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-09-21	HT08SOY002-09-22	HT08SOY002-09-23
<b>Location</b>	Sharpsville	Sharpsville	Sharpsville
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1755D	1755E	1755F
<b>Covance LIMS Number</b>	90100057	90100089	90100127

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.77	1.70	1.73
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.953	0.911	0.948
18:1 Oleic	5.17	5.13	4.98
18:2 Linoleic	9.92	9.53	9.56
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.42	1.37	1.36
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0696	0.0674	0.0699
20:1 Eicosenoic	0.0350	0.0340	0.0357
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0671	0.0638	0.0658
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.0289	0.0315	0.0310
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	3.69	3.49	3.69
Vitamin B1/Thiamine HCl (ppm)	4.7	5.3	4.6
Vitamin B2/Riboflavin (ppm)	4.84	4.34	5.16
Vitamin K (ppm)	0.207	0.256	0.367
Vitamin A/Beta Carotene (ppm)	0.573	0.546	0.553

LOQ-Limit of Quantitation

**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-21	HT08SOY002-10-22	HT08SOY002-10-23
<b>Location</b>	Mediapolis	Mediapolis	Mediapolis
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1756D	1756E	1756F
<b>Covance LIMS Number</b>	90100107	90100122	90100038
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	8.65	8.80	8.93
Protein	37.9	37.6	37.2
Total Fat	19.0	19.6	20.2
Ash	4.87	5.05	5.04
Carbohydrates	38.2	37.7	37.6
Acid Detergent Fiber (%)	20.1	19.0	15.9
Neutral Detergent Fiber (%)	21.1	21.8	19.2
Phytic Acid (%)	1.20	1.46	1.43
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	25.5	23.6	25.4
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	222	213	223
Delta Tocopherol	67.4	65.6	69.9
Total Tocopherols	315	302	318
<b>Minerals (ppm)</b>			
Iron	78.8	76.9	74.4
<b>Minerals (%)</b>			
Calcium	0.312	0.300	0.293
Magnesium	0.226	0.236	0.227
Phosphorus	0.602	0.617	0.603
Potassium	1.73	1.79	1.76
Sodium	0.0192	0.0282	0.0290

LOQ-Limit of Quantitation

**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-10-21</b>	<b>HT08SOY002-10-22</b>	<b>HT08SOY002-10-23</b>
<b>Location</b>	Mediapolis	Mediapolis	Mediapolis
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1756D	1756E	1756F
<b>Covance LIMS Number</b>	90100107	90100122	90100038
<b>Amino Acids (%)</b>			
Aspartic Acid	4.28	4.29	4.21
Threonine	1.48	1.50	1.48
Serine	1.89	1.95	1.93
Glutamic Acid	6.58	6.57	6.47
Proline	1.85	1.75	1.72
Glycine	1.67	1.67	1.63
Alanine	1.66	1.66	1.63
Cystine	0.582	0.568	0.559
Valine	1.87	1.83	1.78
Methionine	0.537	0.513	0.526
Isoleucine	1.80	1.75	1.70
Leucine	2.92	2.92	2.87
Tyrosine	1.40	1.38	1.37
Phenylalanine	1.92	1.91	1.88
Lysine	2.45	2.45	2.38
Histidine	1.03	1.02	1.00
Arginine	2.92	2.87	2.83
Tryptophan	0.458	0.441	0.436
*Lectin (H.U./mg)	2.29	1.95	1.27
**Trypsin Inhibitor (TIU/mg)	35.1	34.4	25.4
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.315	0.328	0.348
Stachyose (%)	2.40	2.41	2.46
<b>Isoflavones (ppm)</b>			
Daidzein	< LOQ	< LOQ	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	< LOQ	< LOQ	< LOQ
Daidzin	609	621	630
Glycitin	354	428	395
Genistin	1200	1220	1150
Total Aglycone Equivalents	1350	1410	1360

LOQ-Limit of Quantitation

**Table 8**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-21	HT08SOY002-10-22	HT08SOY002-10-23
<b>Location</b>	Mediapolis	Mediapolis	Mediapolis
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1756D	1756E	1756F
<b>Covance LIMS Number</b>	90100107	90100122	90100038

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.72	1.75	1.80
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.790	0.819	0.838
18:1 Oleic	4.42	4.53	4.79
18:2 Linoleic	9.61	9.68	10.3
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.39	1.39	1.46
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0576	0.0594	0.0604
20:1 Eicosenoic	0.0321	0.0328	0.0335
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0578	0.0592	0.0615
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.0236	0.0264	0.0289
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	2.94	3.60	2.70
Vitamin B1/Thiamine HCl (ppm)	3.8	4.1	3.3
Vitamin B2/Riboflavin (ppm)	3.65	5.63	5.83
Vitamin K (ppm)	0.271	0.388	0.150
Vitamin A/Beta Carotene (ppm)	0.294	0.389	0.314

LOQ-Limit of Quantitation

**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-01-31	HT08SOY002-01-32	HT08SOY002-01-33
<b>Location</b>	Marcus	Marcus	Marcus
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1747G	1747H	1747I
<b>Covance LIMS Number</b>	90100051	90100043	90100105
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	10.0	10.4	10.2
Protein	38.2	38.3	38.4
Total Fat	19.2	18.5	17.1
Ash	4.59	4.50	4.59
Carbohydrates	38.0	38.7	39.9
Acid Detergent Fiber (%)	16.9	15.2	16.8
Neutral Detergent Fiber (%)	19.8	17.9	20.8
Phytic Acid (%)	0.806	0.785	0.931
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	16.2	12.6	13.8
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	206	186	187
Delta Tocopherol	93.8	91.4	82.9
Total Tocopherols	316	290	284
<b>Minerals (ppm)</b>			
Iron	75.4	76.1	76.8
<b>Minerals (%)</b>			
Calcium	0.231	0.234	0.233
Magnesium	0.201	0.206	0.214
Phosphorus	0.451	0.473	0.531
Potassium	1.70	1.72	1.70
Sodium	0.0139	0.0398	0.0124

LOQ-Limit of Quantitation

**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-01-31	HT08SOY002-01-32	HT08SOY002-01-33
<b>Location</b>	Marcus	Marcus	Marcus
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1747G	1747H	1747I
<b>Covance LIMS Number</b>	90100051	90100043	90100105
<b>Amino Acids (%)</b>			
Aspartic Acid	4.28	4.41	4.30
Threonine	1.51	1.53	1.48
Serine	1.99	2.01	1.90
Glutamic Acid	6.64	6.85	6.65
Proline	1.76	1.81	1.86
Glycine	1.66	1.70	1.67
Alanine	1.64	1.69	1.66
Cystine	0.556	0.551	0.566
Valine	1.86	1.93	1.90
Methionine	0.538	0.539	0.532
Isoleucine	1.76	1.82	1.79
Leucine	2.94	3.02	2.95
Tyrosine	1.40	1.43	1.38
Phenylalanine	1.92	1.98	1.93
Lysine	2.43	2.48	2.46
Histidine	1.03	1.06	1.04
Arginine	2.93	3.00	2.96
Tryptophan	0.426	0.442	0.452
*Lectin (H.U./mg)	1.56	1.36	1.58
**Trypsin Inhibitor (TIU/mg)	35.1	23.7	28.1
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.347	0.352	0.342
Stachyose (%)	2.39	2.33	2.32
<b>Isoflavones (ppm)</b>			
Daidzein	< LOQ	11.3	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	< LOQ	11.5	< LOQ
Daidzin	1700	1810	1640
Glycitin	389	408	392
Genistin	2320	2400	2380
Total Aglycone Equivalents	2730	2890	2740

LOQ-Limit of Quantitation



**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-01-31	HT08SOY002-01-32	HT08SOY002-01-33
<b>Location</b>	Marcus	Marcus	Marcus
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1747G	1747H	1747I
<b>Covance LIMS Number</b>	90100051	90100043	90100105
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.74	1.66	1.55
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.830	0.790	0.746
18:1 Oleic	4.31	4.06	3.76
18:2 Linoleic	10.1	9.65	8.93
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.52	1.46	1.37
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0588	0.0557	0.0535
20:1 Eicosenoic	0.0286	0.0268	0.0253
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0609	0.0590	0.0565
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.0268	< LOQ	< LOQ
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ
Folic Acid (ppm)	3.10	2.89	3.69
Vitamin B1/Thiamine HCl (ppm)	2.0	2.1	2.6
Vitamin B2/Riboflavin (ppm)	3.87	5.95	4.78
Vitamin K (ppm)	< LOQ	< LOQ	0.149
Vitamin A/Beta Carotene (ppm)	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-02-31	HT08SOY002-02-32	HT08SOY002-02-33
<b>Location</b>	Iowa Falls	Iowa Falls	Iowa Falls
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 Sprayed	FG72 sprayed
<b>BTID No.</b>	1748G	1748H	1748I
<b>Covance LIMS Number</b>	90100087	90300042	90100056
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	10.9	6.51	10.5
Protein	38.5	36.7	39.6
Total Fat	18.7	21.2	18.9
Ash	5.04	4.76	4.86
Carbohydrates	37.7	37.3	36.8
Acid Detergent Fiber (%)	17.4	18.1	15.6
Neutral Detergent Fiber (%)	20.1	19.8	18.3
Phytic Acid (%)	1.49	1.26	1.33
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	15.3	13.0	13.7
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	191	175	183
Delta Tocopherol	85.1	91.7	92.6
Total Tocopherols	291	280	289
<b>Minerals (ppm)</b>			
Iron	77.6	74.6	71.2
<b>Minerals (%)</b>			
Calcium	0.221	0.211	0.209
Magnesium	0.219	0.218	0.217
Phosphorus	0.650	0.584	0.628
Potassium	1.89	1.81	1.84
Sodium	0.0153	< LOQ	0.0308

LOQ-Limit of Quantitation

**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-02-31</b>	<b>HT08SOY002-02-32</b>	<b>HT08SOY002-02-33</b>
<b>Location</b>	Iowa Falls	Iowa Falls	Iowa Falls
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 Sprayed	FG72 sprayed
<b>BTID No.</b>	1748G	1748H	1748I
<b>Covance LIMS Number</b>	90100087	90300042	90100056
<b>Amino Acids (%)</b>			
Aspartic Acid	4.35	4.42	4.49
Threonine	1.58	1.57	1.62
Serine	1.98	1.99	2.06
Glutamic Acid	6.70	6.86	6.89
Proline	1.89	1.84	1.88
Glycine	1.66	1.70	1.71
Alanine	1.66	1.71	1.70
Cystine	0.593	0.611	0.626
Valine	1.84	1.91	1.85
Methionine	0.549	0.578	0.579
Isoleucine	1.76	1.84	1.79
Leucine	2.96	3.05	3.04
Tyrosine	1.40	1.41	1.44
Phenylalanine	1.99	2.01	2.03
Lysine	2.47	2.50	2.53
Histidine	1.05	1.07	1.07
Arginine	2.94	3.04	3.08
Tryptophan	0.496	0.452	0.447
*Lectin (H.U./mg)	1.22	1.47	1.27
**Trypsin Inhibitor (TIU/mg)	32.5	24.1	35.6
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.348	0.331	0.330
Stachyose (%)	2.19	2.85	2.47
<b>Isoflavones (ppm)</b>			
Daidzein	14.6	< LOQ	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	11.8	< LOQ	< LOQ
Daidzin	1440	729	1340
Glycitin	387	169	369
Genistin	2220	1810	1980
Total Aglycone Equivalents	2540	1680	2290

LOQ-Limit of Quantitation

**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-02-31	HT08SOY002-02-32	HT08SOY002-02-33
<b>Location</b>	Iowa Falls	Iowa Falls	Iowa Falls
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 Sprayed	FG72 sprayed
<b>BTID No.</b>	1748G	1748H	1748I
<b>Covance LIMS Number</b>	90100087	90300042	90100056

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.63	2.13	1.64
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	0.0217	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.787	0.778	0.840
18:1 Oleic	4.11	4.58	4.49
18:2 Linoleic	9.35	11.2	9.46
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.55	1.58	1.58
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0559	0.0560	0.0607
20:1 Eicosenoic	0.0262	0.0324	0.0277
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0578	0.0526	0.0658
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	0.0262	< LOQ
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	2.81	2.39	2.86
Vitamin B1/Thiamine HCl (ppm)	2.6	1.8	2.2
Vitamin B2/Riboflavin (ppm)	3.55	4.01	5.06
Vitamin K (ppm)	0.182	0.117	< LOQ
Vitamin A/Beta Carotene (ppm)	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-03-31	HT08SOY002-03-32	HT08SOY002-03-33
<b>Location</b>	Glidden	Glidden	Glidden
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1749G	1749H	1749I
<b>Covance LIMS Number</b>	90100024	90100050	90100084
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	10.3	9.83	9.79
Protein	38.7	38.0	38.6
Total Fat	19.2	19.6	19.1
Ash	5.37	5.60	5.40
Carbohydrates	36.8	36.7	36.9
Acid Detergent Fiber (%)	16.4	16.7	16.5
Neutral Detergent Fiber (%)	17.4	18.7	19.4
Phytic Acid (%)	1.56	1.71	1.87
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	18.7	19.6	14.9
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	203	202	187
Delta Tocopherol	86.1	86.8	82.7
Total Tocopherols	308	308	285
<b>Minerals (ppm)</b>			
Iron	87.7	86.1	87.1
<b>Minerals (%)</b>			
Calcium	0.256	0.254	0.249
Magnesium	0.235	0.230	0.235
Phosphorus	0.699	0.752	0.757
Potassium	1.90	2.03	2.01
Sodium	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-03-31	HT08SOY002-03-32	HT08SOY002-03-33
<b>Location</b>	Glidden	Glidden	Glidden
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1749G	1749H	1749I
<b>Covance LIMS Number</b>	90100024	90100050	90100084
<b>Amino Acids (%)</b>			
Aspartic Acid	4.52	4.44	4.38
Threonine	1.56	1.55	1.54
Serine	2.04	2.06	1.96
Glutamic Acid	7.01	6.86	6.75
Proline	1.86	1.80	1.84
Glycine	1.72	1.70	1.68
Alanine	1.72	1.70	1.68
Cystine	0.632	0.616	0.579
Valine	1.95	1.89	1.91
Methionine	0.565	0.567	0.553
Isoleucine	1.85	1.79	1.80
Leucine	3.07	3.01	2.96
Tyrosine	1.40	1.42	1.39
Phenylalanine	2.01	1.95	1.94
Lysine	2.53	2.50	2.47
Histidine	1.07	1.05	1.05
Arginine	3.04	2.99	2.96
Tryptophan	0.425	0.414	0.448
*Lectin (H.U./mg)	1.59	1.36	1.10
**Trypsin Inhibitor (TIU/mg)	33.2	37.9	23.6
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.397	0.372	0.378
Stachyose (%)	2.90	2.51	2.32
<b>Isoflavones (ppm)</b>			
Daidzein	< LOQ	< LOQ	12.6
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	11.6	< LOQ	< LOQ
Daidzin	1160	1180	1200
Glycitin	386	389	379
Genistin	1880	1900	1940
Total Aglycone Equivalents	2140	2150	2190

LOQ-Limit of Quantitation

**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-03-31	HT08SOY002-03-32	HT08SOY002-03-33
<b>Location</b>	Glidden	Glidden	Glidden
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1749G	1749H	1749I
<b>Covance LIMS Number</b>	90100024	90100050	90100084

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.68	1.75	1.70
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.831	0.853	0.824
18:1 Oleic	4.43	4.59	4.52
18:2 Linoleic	9.64	10.0	9.57
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.57	1.67	1.60
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0591	0.0612	0.0596
20:1 Eicosenoic	0.0282	0.0297	0.0289
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0603	0.0631	0.0617
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	0.0257	< LOQ
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	2.53	2.97	3.24
Vitamin B1/Thiamine HCl (ppm)	1.6	1.4	3.0
Vitamin B2/Riboflavin (ppm)	3.91	5.87	4.39
Vitamin K (ppm)	< LOQ	0.174	0.173
Vitamin A/Beta Carotene (ppm)	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-04-31	HT08SOY002-04-32	HT08SOY002-04-33
<b>Location</b>	Perry	Perry	Perry
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1750G	1750H	1750I
<b>Covance LIMS Number</b>	90100114	90100109	90100103
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	9.15	9.53	9.66
Protein	37.1	36.5	37.7
Total Fat	19.3	18.3	17.5
Ash	5.26	5.17	5.08
Carbohydrates	38.4	40.0	39.7
Acid Detergent Fiber (%)	18.9	18.7	19.5
Neutral Detergent Fiber (%)	20.0	21.1	21.6
Phytic Acid (%)	1.47	1.28	1.24
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	22.9	20.7	20.4
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	198	195	194
Delta Tocopherol	67.4	73.6	68.2
Total Tocopherols	288	288	282
<b>Minerals (ppm)</b>			
Iron	92.6	81.7	85.5
<b>Minerals (%)</b>			
Calcium	0.273	0.262	0.289
Magnesium	0.229	0.223	0.247
Phosphorus	0.630	0.613	0.627
Potassium	1.85	1.76	1.75
Sodium	0.0127	0.0263	0.0332

LOQ-Limit of Quantitation



**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-04-31</b>	<b>HT08SOY002-04-32</b>	<b>HT08SOY002-04-33</b>
<b>Location</b>	Perry	Perry	Perry
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1750G	1750H	1750I
<b>Covance LIMS Number</b>	90100114	90100109	90100103
<b>Amino Acids (%)</b>			
Aspartic Acid	4.16	4.33	4.38
Threonine	1.45	1.50	1.52
Serine	1.92	1.96	1.95
Glutamic Acid	6.46	6.73	6.75
Proline	1.79	1.88	1.89
Glycine	1.63	1.67	1.68
Alanine	1.64	1.68	1.69
Cystine	0.583	0.569	0.605
Valine	1.83	1.90	1.91
Methionine	0.549	0.529	0.548
Isoleucine	1.75	1.79	1.82
Leucine	2.87	2.95	2.98
Tyrosine	1.30	1.32	1.39
Phenylalanine	1.86	1.93	1.94
Lysine	2.40	2.46	2.49
Histidine	1.01	1.04	1.05
Arginine	2.81	2.92	2.99
Tryptophan	0.467	0.460	0.454
*Lectin (H.U./mg)	1.92	1.92	0.911
**Trypsin Inhibitor (TIU/mg)	35.3	38.2	39.2
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.427	0.422	0.392
Stachyose (%)	2.31	2.51	2.29
<b>Isoflavones (ppm)</b>			
Daidzein	< LOQ	< LOQ	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	12.1	< LOQ	< LOQ
Daidzin	947	1150	1030
Glycitin	426	436	406
Genistin	1650	1960	1670
Total Aglycone Equivalents	1890	2200	1930

LOQ-Limit of Quantitation

**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-04-31	HT08SOY002-04-32	HT08SOY002-04-33
<b>Location</b>	Perry	Perry	Perry
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1750G	1750H	1750I
<b>Covance LIMS Number</b>	90100114	90100109	90100103

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.72	1.66	1.61
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.885	0.825	0.803
18:1 Oleic	4.40	4.20	3.98
18:2 Linoleic	9.86	9.43	9.13
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.52	1.45	1.39
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0615	0.0590	0.0572
20:1 Eicosenoic	0.0299	0.0300	0.0287
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0590	0.0579	0.0570
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.0225	< LOQ	< LOQ
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	3.09	3.36	3.03
Vitamin B1/Thiamine HCl (ppm)	3.7	3.4	3.4
Vitamin B2/Riboflavin (ppm)	4.84	6.19	4.36
Vitamin K (ppm)	0.252	0.211	0.238
Vitamin A/Beta Carotene (ppm)	0.273	0.240	< LOQ

LOQ-Limit of Quantitation

**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-05-31	HT08SOY002-05-32	HT08SOY002-05-33
<b>Location</b>	Adel	Adel	Adel
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1751G	1751H	1751I
<b>Covance LIMS Number</b>	90100093	90100121	90100054
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	8.94	9.42	9.05
Protein	37.7	37.9	37.7
Total Fat	18.7	18.4	20.1
Ash	5.35	5.23	5.34
Carbohydrates	38.3	38.4	36.8
Acid Detergent Fiber (%)	18.3	19.3	15.4
Neutral Detergent Fiber (%)	21.6	20.5	17.9
Phytic Acid (%)	1.54	1.46	1.43
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	17.0	18.4	15.9
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	194	197	190
Delta Tocopherol	69.4	70.9	71.6
Total Tocopherols	281	286	278
<b>Minerals (ppm)</b>			
Iron	80.3	78.1	81.4
<b>Minerals (%)</b>			
Calcium	0.267	0.262	0.255
Magnesium	0.235	0.233	0.232
Phosphorus	0.673	0.640	0.672
Potassium	1.99	1.82	1.97
Sodium	< LOQ	0.0287	0.0189

LOQ-Limit of Quantitation

**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-05-31</b>	<b>HT08SOY002-05-32</b>	<b>HT08SOY002-05-33</b>
<b>Location</b>	Adel	Adel	Adel
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1751G	1751H	1751I
<b>Covance LIMS Number</b>	90100093	90100121	90100054
<b>Amino Acids (%)</b>			
Aspartic Acid	4.34	4.32	4.24
Threonine	1.52	1.49	1.54
Serine	1.83	1.97	1.96
Glutamic Acid	6.70	6.71	6.52
Proline	1.78	1.80	1.79
Glycine	1.67	1.67	1.64
Alanine	1.68	1.67	1.63
Cystine	0.609	0.560	0.593
Valine	1.93	1.87	1.77
Methionine	0.559	0.519	0.542
Isoleucine	1.86	1.78	1.72
Leucine	2.98	2.94	2.89
Tyrosine	1.35	1.35	1.37
Phenylalanine	1.99	1.92	1.91
Lysine	2.47	2.44	2.41
Histidine	1.05	1.03	1.02
Arginine	2.88	2.88	2.88
Tryptophan	0.481	0.397	0.432
*Lectin (H.U./mg)	0.877	2.08	1.11
**Trypsin Inhibitor (TIU/mg)	42.7	26.4	43.4
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.374	0.426	0.438
Stachyose (%)	2.06	2.52	2.61
<b>Isoflavones (ppm)</b>			
Daidzein	< LOQ	< LOQ	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	11.1	12.1	11.5
Daidzin	1040	1080	1180
Glycitin	433	435	429
Genistin	1680	1730	1810
Total Aglycone Equivalents	1980	2030	2130

LOQ-Limit of Quantitation

**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-05-31	HT08SOY002-05-32	HT08SOY002-05-33
<b>Location</b>	Adel	Adel	Adel
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1751G	1751H	1751I
<b>Covance LIMS Number</b>	90100093	90100121	90100054

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.60	1.60	1.79
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.776	0.795	0.870
18:1 Oleic	4.15	4.16	4.74
18:2 Linoleic	9.09	9.05	10.3
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.37	1.34	1.53
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0552	0.0554	0.0610
20:1 Eicosenoic	0.0276	0.0278	0.0306
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0550	0.0554	0.0620
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.0261	< LOQ	0.0228
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	3.16	3.41	2.92
Vitamin B1/Thiamine HCl (ppm)	4.1	4.1	4.1
Vitamin B2/Riboflavin (ppm)	4.46	4.45	4.43
Vitamin K (ppm)	0.192	0.276	0.156
Vitamin A/Beta Carotene (ppm)	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-06-31	HT08SOY002-06-32	HT08SOY002-06-33
<b>Location</b>	Winterset	Winterset	Winterset
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1752G	1752H	1752I
<b>Covance LIMS Number</b>	90100133	90100112	90100058
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	9.83	9.38	9.37
Protein	38.7	39.0	39.6
Total Fat	17.9	17.4	19.1
Ash	5.08	4.92	4.98
Carbohydrates	38.4	38.7	36.3
Acid Detergent Fiber (%)	21.0	19.1	16.0
Neutral Detergent Fiber (%)	21.2	20.3	18.2
Phytic Acid (%)	1.34	1.47	1.24
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	14.3	16.6	16.7
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	185	192	195
Delta Tocopherol	71.4	75.8	77.6
Total Tocopherols	271	285	289
<b>Minerals (ppm)</b>			
Iron	84.5	82.0	82.0
<b>Minerals (%)</b>			
Calcium	0.252	0.248	0.250
Magnesium	0.230	0.225	0.222
Phosphorus	0.607	0.620	0.650
Potassium	1.87	1.79	1.95
Sodium	< LOQ	0.0130	< LOQ

LOQ-Limit of Quantitation

**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-06-31	HT08SOY002-06-32	HT08SOY002-06-33
<b>Location</b>	Winterset	Winterset	Winterset
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1752G	1752H	1752I
<b>Covance LIMS Number</b>	90100133	90100112	90100058
<b>Amino Acids (%)</b>			
Aspartic Acid	4.55	4.49	4.52
Threonine	1.57	1.56	1.62
Serine	2.11	2.03	2.06
Glutamic Acid	7.03	6.97	6.97
Proline	1.89	1.92	1.86
Glycine	1.74	1.71	1.72
Alanine	1.72	1.71	1.71
Cystine	0.584	0.487	0.600
Valine	1.91	1.93	1.88
Methionine	0.541	0.461	0.558
Isoleucine	1.82	1.83	1.80
Leucine	3.07	3.05	3.08
Tyrosine	1.45	1.39	1.45
Phenylalanine	2.02	2.00	2.05
Lysine	2.56	2.53	2.54
Histidine	1.09	1.07	1.08
Arginine	3.05	3.05	3.08
Tryptophan	0.408	0.463	0.469
*Lectin (H.U./mg)	1.95	1.40	2.63
**Trypsin Inhibitor (TIU/mg)	30.7	34.0	36.6
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.312	0.322	0.317
Stachyose (%)	2.47	2.55	2.46
<b>Isoflavones (ppm)</b>			
Daidzein	< LOQ	< LOQ	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	< LOQ	< LOQ	< LOQ
Daidzin	985	1060	991
Glycitin	391	365	376
Genistin	1660	1740	1580
Total Aglycone Equivalents	1890	1980	1830

LOQ-Limit of Quantitation

**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-06-31	HT08SOY002-06-32	HT08SOY002-06-33
<b>Location</b>	Winterset	Winterset	Winterset
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1752G	1752H	1752I
<b>Covance LIMS Number</b>	90100133	90100112	90100058

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.64	1.54	1.72
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.757	0.721	0.794
18:1 Oleic	4.00	4.01	4.39
18:2 Linoleic	9.19	8.60	9.70
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.45	1.39	1.57
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0553	0.0521	0.0579
20:1 Eicosenoic	0.0283	0.0265	0.0296
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0582	0.0542	0.0599
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	3.30	3.31	3.07
Vitamin B1/Thiamine HCl (ppm)	3.7	3.8	4.3
Vitamin B2/Riboflavin (ppm)	5.98	3.35	4.78
Vitamin K (ppm)	0.260	0.215	0.151
Vitamin A/Beta Carotene (ppm)	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation



**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-31	HT08SOY002-07-32	HT08SOY002-07-33
<b>Location</b>	Osborn	Osborn	Osborn
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1753G	1753H	1753I
<b>Covance LIMS Number</b>	90100055	90100067	90100132
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	9.23	9.10	9.45
Protein	36.6	36.7	37.4
Total Fat	21.0	20.7	18.4
Ash	5.06	4.86	4.96
Carbohydrates	37.3	37.7	39.2
Acid Detergent Fiber (%)	16.9	16.7	21.0
Neutral Detergent Fiber (%)	19.4	19.0	22.7
Phytic Acid (%)	1.23	1.36	1.30
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	28.1	26.3	22.6
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	215	221	211
Delta Tocopherol	63.9	71.0	73.6
Total Tocopherols	307	318	307
<b>Minerals (ppm)</b>			
Iron	78.6	78.2	78.9
<b>Minerals (%)</b>			
Calcium	0.277	0.262	0.264
Magnesium	0.229	0.227	0.230
Phosphorus	0.603	0.607	0.588
Potassium	1.89	1.91	1.80
Sodium	0.0217	< LOQ	0.0186

LOQ-Limit of Quantitation

**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-31	HT08SOY002-07-32	HT08SOY002-07-33
<b>Location</b>	Osborn	Osborn	Osborn
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1753G	1753H	1753I
<b>Covance LIMS Number</b>	90100055	90100067	90100132
<b>Amino Acids (%)</b>			
Aspartic Acid	4.23	4.22	4.44
Threonine	1.53	1.54	1.54
Serine	1.91	1.95	2.05
Glutamic Acid	6.43	6.41	6.84
Proline	1.74	1.80	1.82
Glycine	1.63	1.62	1.68
Alanine	1.64	1.64	1.68
Cystine	0.615	0.604	0.561
Valine	1.82	1.77	1.84
Methionine	0.544	0.524	0.519
Isoleucine	1.76	1.72	1.78
Leucine	2.91	2.89	2.99
Tyrosine	1.38	1.36	1.42
Phenylalanine	1.93	1.94	1.97
Lysine	2.42	2.42	2.47
Histidine	1.02	1.02	1.05
Arginine	2.84	2.84	2.97
Tryptophan	0.440	0.446	0.394
*Lectin (H.U./mg)	1.48	1.84	1.21
**Trypsin Inhibitor (TIU/mg)	41.8	41.5	35.8
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.379	0.452	0.332
Stachyose (%)	2.66	2.72	2.46
<b>Isoflavones (ppm)</b>			
Daidzein	< LOQ	< LOQ	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	< LOQ	< LOQ	< LOQ
Daidzin	683	814	721
Glycitin	375	459	392
Genistin	1400	1630	1450
Total Aglycone Equivalents	1530	1800	1590

LOQ-Limit of Quantitation

**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-31	HT08SOY002-07-32	HT08SOY002-07-33
<b>Location</b>	Osborn	Osborn	Osborn
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1753G	1753H	1753I
<b>Covance LIMS Number</b>	90100055	90100067	90100132

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.94	1.89	1.69
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	0.0225	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.908	0.855	0.785
18:1 Oleic	4.77	4.72	4.36
18:2 Linoleic	10.9	10.6	9.38
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.55	1.54	1.39
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0647	0.0614	0.0573
20:1 Eicosenoic	0.0342	0.0338	0.0304
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0647	0.0611	0.0575
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.0260	0.0267	0.0241
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	2.74	3.10	3.30
Vitamin B1/Thiamine HCl (ppm)	3.2	3.4	3.1
Vitamin B2/Riboflavin (ppm)	5.24	4.50	6.15
Vitamin K (ppm)	0.240	0.239	0.321
Vitamin A/Beta Carotene (ppm)	0.251	0.239	0.294

LOQ-Limit of Quantitation

**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-08-31</b>	<b>HT08SOY002-08-32</b>	<b>HT08SOY002-08-33</b>
<b>Location</b>	Fithian	Fithian	Fithian
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1754G	1754H	1754I
<b>Covance LIMS Number</b>	90100117	90100110	90100032
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	10.0	9.33	10.0
Protein	38.3	39.3	36.8
Total Fat	20.4	19.7	21.6
Ash	4.70	4.81	5.14
Carbohydrates	36.6	36.2	36.6
Acid Detergent Fiber (%)	18.0	18.1	16.7
Neutral Detergent Fiber (%)	19.2	18.7	19.3
Phytic Acid (%)	1.23	1.14	1.42
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	24.1	22.3	23.7
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	201	196	216
Delta Tocopherol	69.6	69.5	76.1
Total Tocopherols	294	288	316
<b>Minerals (ppm)</b>			
Iron	77.1	73.8	79.9
<b>Minerals (%)</b>			
Calcium	0.252	0.238	0.259
Magnesium	0.226	0.215	0.234
Phosphorus	0.567	0.560	0.643
Potassium	1.72	1.69	1.86
Sodium	0.0194	0.0148	0.0146

LOQ-Limit of Quantitation

**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-08-31</b>	<b>HT08SOY002-08-32</b>	<b>HT08SOY002-08-33</b>
<b>Location</b>	Fithian	Fithian	Fithian
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1754G	1754H	1754I
<b>Covance LIMS Number</b>	90100117	90100110	90100032
<b>Amino Acids (%)</b>			
Aspartic Acid	4.49	4.51	4.14
Threonine	1.57	1.53	1.47
Serine	2.03	2.02	1.92
Glutamic Acid	6.97	6.99	6.36
Proline	1.89	1.94	1.73
Glycine	1.72	1.71	1.60
Alanine	1.72	1.72	1.60
Cystine	0.593	0.601	0.590
Valine	1.92	1.95	1.77
Methionine	0.539	0.560	0.522
Isoleucine	1.83	1.86	1.71
Leucine	3.06	3.09	2.84
Tyrosine	1.40	1.43	1.36
Phenylalanine	2.00	2.02	1.83
Lysine	2.53	2.53	2.33
Histidine	1.07	1.08	0.981
Arginine	3.07	3.10	2.74
Tryptophan	0.460	0.474	0.401
*Lectin (H.U./mg)	2.29	1.49	1.83
**Trypsin Inhibitor (TIU/mg)	38.7	28.8	32.2
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.506	0.499	0.511
Stachyose (%)	2.58	2.50	2.69
<b>Isoflavones (ppm)</b>			
Daidzein	< LOQ	< LOQ	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	< LOQ	< LOQ	12.2
Daidzin	902	857	972
Glycitin	419	332	476
Genistin	1600	1510	1670
Total Aglycone Equivalents	1820	1680	1960

LOQ-Limit of Quantitation

**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-08-31	HT08SOY002-08-32	HT08SOY002-08-33
<b>Location</b>	Fithian	Fithian	Fithian
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1754G	1754H	1754I
<b>Covance LIMS Number</b>	90100117	90100110	90100032

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.84	1.81	1.96
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.850	0.848	0.877
18:1 Oleic	4.71	4.76	4.96
18:2 Linoleic	10.3	10.2	11.1
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.43	1.41	1.56
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0607	0.0609	0.0630
20:1 Eicosenoic	0.0344	0.0332	0.0357
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0619	0.0614	0.0644
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	0.0242
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	3.21	3.29	2.53
Vitamin B1/Thiamine HCl (ppm)	3.6	3.6	2.9
Vitamin B2/Riboflavin (ppm)	3.81	6.05	4.61
Vitamin K (ppm)	0.292	0.224	0.149
Vitamin A/Beta Carotene (ppm)	0.422	0.411	0.392

LOQ-Limit of Quantitation

**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-09-31	HT08SOY002-09-32	HT08SOY002-09-33
<b>Location</b>	Sharpsville	Sharpsville	Sharpsville
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1755G	1755H	1755I
<b>Covance LIMS Number</b>	90100120	90100125	90100113
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	8.57	8.11	8.50
Protein	37.7	39.4	38.9
Total Fat	19.8	18.6	19.6
Ash	5.17	4.91	5.68
Carbohydrates	37.3	37.1	35.8
Acid Detergent Fiber (%)	19.4	19.3	21.4
Neutral Detergent Fiber (%)	21.2	22.6	21.1
Phytic Acid (%)	1.41	1.32	1.49
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	32.9	29.3	30.8
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	200	195	201
Delta Tocopherol	54.9	54.1	58.8
Total Tocopherols	288	279	291
<b>Minerals (ppm)</b>			
Iron	94.6	84.8	180 <sup>1</sup>
<b>Minerals (%)</b>			
Calcium	0.279	0.267	0.284
Magnesium	0.219	0.221	0.224
Phosphorus	0.605	0.605	0.625
Potassium	1.86	1.92	1.85
Sodium	< LOQ	< LOQ	< LOQ

<sup>1</sup> Confirmed by retest.

LOQ-Limit of Quantitation

**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-09-31	HT08SOY002-09-32	HT08SOY002-09-33
<b>Location</b>	Sharpsville	Sharpsville	Sharpsville
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1755G	1755H	1755I
<b>Covance LIMS Number</b>	90100120	90100125	90100113

**Amino Acids (%)**

Aspartic Acid	4.13	4.51	4.39
Threonine	1.45	1.56	1.53
Serine	1.91	2.06	1.98
Glutamic Acid	6.34	6.96	6.81
Proline	1.72	1.86	1.87
Glycine	1.64	1.73	1.69
Alanine	1.62	1.72	1.68
Cystine	0.558	0.602	0.580
Valine	1.78	1.92	1.90
Methionine	0.510	0.555	0.548
Isoleucine	1.71	1.84	1.81
Leucine	2.82	3.04	2.97
Tyrosine	1.37	1.46	1.41
Phenylalanine	1.85	2.01	1.95
Lysine	2.38	2.54	2.49
Histidine	0.993	1.06	1.04
Arginine	2.77	3.05	2.98
Tryptophan	0.420	0.432	0.457

\*Lectin (H.U./mg)

2.24 1.22 1.58

\*\*Trypsin Inhibitor (TIU/mg)

35.1 25.4 36.6

\*H.U. - Hemagglutinating Unit

\*\*TIU - Trypsin Inhibitor Unit

Raffinose (%)

0.363 0.355 0.363

Stachyose (%)

2.71 2.75 2.61

**Isoflavones (ppm)**

Daidzein	< LOQ	< LOQ	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	< LOQ	< LOQ	< LOQ
Daidzin	478	400	504
Glycitin	492	402	439
Genistin	780	609	819
Total Aglycone Equivalents	1090	881	1100

LOQ-Limit of Quantitation



**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-09-31	HT08SOY002-09-32	HT08SOY002-09-33
<b>Location</b>	Sharpsville	Sharpsville	Sharpsville
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1755G	1755H	1755I
<b>Covance LIMS Number</b>	90100120	90100125	90100113

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.72	1.62	1.72
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.915	0.900	0.926
18:1 Oleic	4.83	4.66	4.85
18:2 Linoleic	9.64	9.07	9.60
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.36	1.28	1.36
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0673	0.0675	0.0679
20:1 Eicosenoic	0.0357	0.0343	0.0345
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0641	0.0622	0.0642
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.0320	0.0295	0.0296
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	3.82	3.72	3.56
Vitamin B1/Thiamine HCl (ppm)	4.4	4.4	4.7
Vitamin B2/Riboflavin (ppm)	4.12	5.28	4.13
Vitamin K (ppm)	0.435	0.381	0.348
Vitamin A/Beta Carotene (ppm)	0.541	0.501	0.566

LOQ-Limit of Quantitation

**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-31	HT08SOY002-10-32	HT08SOY002-10-33
<b>Location</b>	Mediapolis	Mediapolis	Mediapolis
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1756G	1756H	1756I
<b>Covance LIMS Number</b>	90100045	90100128	90100047
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	9.67	9.18	9.71
Protein	38.5	37.3	38.9
Total Fat	19.5	19.3	20.6
Ash	5.06	5.18	5.15
Carbohydrates	37.0	38.2	35.3
Acid Detergent Fiber (%)	16.9	21.0	16.5
Neutral Detergent Fiber (%)	20.4	23.0	19.0
Phytic Acid (%)	1.34	1.46	1.44
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	26.2	25.5	28.7
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	204	201	214
Delta Tocopherol	62.8	60.4	67.0
Total Tocopherols	292	287	309
<b>Minerals (ppm)</b>			
Iron	78.9	77.7	78.6
<b>Minerals (%)</b>			
Calcium	0.311	0.306	0.309
Magnesium	0.234	0.232	0.236
Phosphorus	0.656	0.620	0.665
Potassium	1.84	1.83	1.89
Sodium	0.0188	0.0131	0.0143

LOQ-Limit of Quantitation

**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-10-31</b>	<b>HT08SOY002-10-32</b>	<b>HT08SOY002-10-33</b>
<b>Location</b>	Mediapolis	Mediapolis	Mediapolis
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1756G	1756H	1756I
<b>Covance LIMS Number</b>	90100045	90100128	90100047
<b>Amino Acids (%)</b>			
Aspartic Acid	4.43	4.14	4.51
Threonine	1.54	1.44	1.57
Serine	2.01	1.95	2.08
Glutamic Acid	6.84	6.34	6.96
Proline	1.76	1.65	1.83
Glycine	1.70	1.63	1.73
Alanine	1.70	1.61	1.72
Cystine	0.610	0.570	0.614
Valine	1.92	1.75	1.89
Methionine	0.561	0.513	0.569
Isoleucine	1.83	1.67	1.82
Leucine	3.01	2.81	3.05
Tyrosine	1.44	1.34	1.45
Phenylalanine	1.96	1.84	1.98
Lysine	2.51	2.37	2.54
Histidine	1.06	0.989	1.07
Arginine	2.98	2.75	3.05
Tryptophan	0.434	0.390	0.418
*Lectin (H.U./mg)	1.43	1.05	1.35
**Trypsin Inhibitor (TIU/mg)	35.2	28.2	37.1
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.340	0.295	0.349
Stachyose (%)	2.50	2.30	2.44
<b>Isoflavones (ppm)</b>			
Daidzein	< LOQ	< LOQ	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	< LOQ	< LOQ	< LOQ
Daidzin	603	602	614
Glycitin	417	444	392
Genistin	1130	1160	1140
Total Aglycone Equivalents	1340	1380	1340

LOQ-Limit of Quantitation

**Table 9**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-31	HT08SOY002-10-32	HT08SOY002-10-33
<b>Location</b>	Mediapolis	Mediapolis	Mediapolis
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1756G	1756H	1756I
<b>Covance LIMS Number</b>	90100045	90100128	90100047

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.77	1.73	1.87
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.839	0.811	0.875
18:1 Oleic	4.58	4.38	4.92
18:2 Linoleic	10.0	9.95	10.6
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.43	1.43	1.55
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0608	0.0590	0.0637
20:1 Eicosenoic	0.0329	0.0338	0.0347
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0607	0.0588	0.0653
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.0311	0.0261	0.0319
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	2.83	3.17	3.27
Vitamin B1/Thiamine HCl (ppm)	2.4	3.0	2.1
Vitamin B2/Riboflavin (ppm)	4.64	5.32	6.07
Vitamin K (ppm)	0.170	0.324	0.185
Vitamin A/Beta Carotene (ppm)	0.362	0.411	0.412

LOQ-Limit of Quantitation

**Table 10**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen D**

<b>Bayer Sample Number ID</b>	HT08SOY002-01-41	HT08SOY002-02-41	HT08SOY002-03-41
<b>Location</b>	Marcus	Iowa Falls	Glidden
<b>Regimen</b>	D	D	D
<b>Description</b>	2686-6	2686-6	2686-6
<b>BTID No.</b>	1747J	1748J	1749J
<b>Covance LIMS Number</b>	90100053	90100124	90100068
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	9.67	10.4	9.78
Protein	39.6	35.8	37.0
Total Fat	20.3	18.4	20.6
Ash	4.94	4.89	5.35
Carbohydrates	35.2	40.8	37.0
Acid Detergent Fiber (%)	16.8	18.1	16.8
Neutral Detergent Fiber (%)	17.0	20.9	19.1
Phytic Acid (%)	1.01	1.16	1.50
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	13.6	13.8	15.5
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	163	166	185
Delta Tocopherol	96.1	81.7	81.4
Total Tocopherols	272	262	282
<b>Minerals (ppm)</b>			
Iron	66.1	66.0	81.2
<b>Minerals (%)</b>			
Calcium	0.267	0.279	0.294
Magnesium	0.232	0.249	0.257
Phosphorus	0.524	0.526	0.650
Potassium	1.84	1.85	2.00
Sodium	0.0114	0.0148	< LOQ

LOQ-Limit of Quantitation

**Table 10**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen D**

<b>Bayer Sample Number ID</b>	HT08SOY002-01-41	HT08SOY002-02-41	HT08SOY002-03-41
<b>Location</b>	Marcus	Iowa Falls	Glidden
<b>Regimen</b>	D	D	D
<b>Description</b>	2686-6	2686-6	2686-6
<b>BTID No.</b>	1747J	1748J	1749J
<b>Covance LIMS Number</b>	90100053	90100124	90100068
<b>Amino Acids (%)</b>			
Aspartic Acid	4.57	4.24	4.27
Threonine	1.62	1.52	1.55
Serine	2.13	1.96	1.92
Glutamic Acid	7.20	6.56	6.53
Proline	1.92	1.80	1.80
Glycine	1.73	1.60	1.62
Alanine	1.74	1.63	1.65
Cystine	0.597	0.590	0.630
Valine	1.92	1.76	1.82
Methionine	0.572	0.542	0.572
Isoleucine	1.84	1.70	1.78
Leucine	3.10	2.87	2.92
Tyrosine	1.48	1.36	1.37
Phenylalanine	2.03	1.88	1.90
Lysine	2.59	2.41	2.48
Histidine	1.06	0.975	0.994
Arginine	3.12	2.82	2.86
Tryptophan	0.468	0.430	0.481
*Lectin (H.U./mg)	1.93	1.53	2.47
**Trypsin Inhibitor (TIU/mg)	60.1	34.9	41.7
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.404	0.448	0.439
Stachyose (%)	2.96	2.80	2.56
<b>Isoflavones (ppm)</b>			
Daidzein	< LOQ	14.0	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	< LOQ	20.6	15.4
Daidzin	1310	1570	1160
Glycitin	149	174	204
Genistin	2480	3290	2580
Total Aglycone Equivalents	2450	3170	2470

LOQ-Limit of Quantitation

**Table 10**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen D**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-01-41</b>	<b>HT08SOY002-02-41</b>	<b>HT08SOY002-03-41</b>
<b>Location</b>	Marcus	Iowa Falls	Glidden
<b>Regimen</b>	D	D	D
<b>Description</b>	2686-6	2686-6	2686-6
<b>BTID No.</b>	1747J	1748J	1749J
<b>Covance LIMS Number</b>	90100053	90100124	90100068
<b>Fatty Acids (%)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	2.01	1.84	2.04
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	0.0221	< LOQ	0.0229
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.689	0.651	0.765
18:1 Oleic	4.43	3.85	4.30
18:2 Linoleic	10.7	9.71	10.8
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.74	1.55	1.71
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0497	0.0456	0.0545
20:1 Eicosenoic	0.0287	0.0268	0.0304
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0526	0.0458	0.0540
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.0283	< LOQ	< LOQ
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ
Folic Acid (ppm)	3.53	3.15	2.97
Vitamin B1/Thiamine HCl (ppm)	2.1	2.9	3.1
Vitamin B2/Riboflavin (ppm)	3.40	4.49	3.74
Vitamin K (ppm)	< LOQ	0.147	0.184
Vitamin A/Beta Carotene (ppm)	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 10**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen D**

<b>Bayer Sample Number ID</b>	HT08SOY002-04-41	HT08SOY002-05-41	HT08SOY002-06-41
<b>Location</b>	Perry	Adel	Winterset
<b>Regimen</b>	D	D	D
<b>Description</b>	2686-6	2686-6	2686-6
<b>BTID No.</b>	1750J	1751J	1752J
<b>Covance LIMS Number</b>	90100083	90100106	90100071
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	9.86	9.07	10.0
Protein	37.1	37.8	40.1
Total Fat	20.4	17.6	18.8
Ash	5.26	4.96	5.24
Carbohydrates	37.3	39.6	35.9
Acid Detergent Fiber (%)	17.3	21.6	16.1
Neutral Detergent Fiber (%)	19.9	22.8	17.7
Phytic Acid (%)	1.39	0.964	1.37
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	16.8	13.5	12.2
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	182	172	156
Delta Tocopherol	81.0	70.8	68.7
Total Tocopherols	280	256	237
<b>Minerals (ppm)</b>			
Iron	72.0	74.0	72.7
<b>Minerals (%)</b>			
Calcium	0.318	0.280	0.293
Magnesium	0.257	0.246	0.239
Phosphorus	0.596	0.566	0.616
Potassium	1.92	1.84	1.97
Sodium	< LOQ	0.0261	< LOQ

LOQ-Limit of Quantitation



**Table 10**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen D**

<b>Bayer Sample Number ID</b>	HT08SOY002-04-41	HT08SOY002-05-41	HT08SOY002-06-41
<b>Location</b>	Perry	Adel	Winterset
<b>Regimen</b>	D	D	D
<b>Description</b>	2686-6	2686-6	2686-6
<b>BTID No.</b>	1750J	1751J	1752J
<b>Covance LIMS Number</b>	90100083	90100106	90100071
<b>Amino Acids (%)</b>			
Aspartic Acid	4.29	4.44	4.67
Threonine	1.55	1.54	1.58
Serine	1.95	1.98	2.00
Glutamic Acid	6.62	6.88	7.23
Proline	1.82	1.88	1.94
Glycine	1.62	1.68	1.76
Alanine	1.65	1.70	1.78
Cystine	0.575	0.576	0.586
Valine	1.80	1.91	2.03
Methionine	0.550	0.549	0.566
Isoleucine	1.72	1.85	1.96
Leucine	2.88	3.00	3.13
Tyrosine	1.39	1.40	1.44
Phenylalanine	1.89	1.96	2.04
Lysine	2.44	2.53	2.64
Histidine	0.994	1.03	1.07
Arginine	2.86	2.95	3.12
Tryptophan	0.494	0.496	0.539
*Lectin (H.U./mg)	1.79	1.73	8.63
**Trypsin Inhibitor (TIU/mg)	29.5	39.4	42.2
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.501	0.332	0.416
Stachyose (%)	2.72	2.35	2.68
<b>Isoflavones (ppm)</b>			
Daidzein	< LOQ	< LOQ	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	< LOQ	14.0	< LOQ
Daidzin	1260	1140	807
Glycitin	175	142	156
Genistin	2560	2460	1710
Total Aglycone Equivalents	2490	2340	1660

LOQ-Limit of Quantitation

**Table 10**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen D**

<b>Bayer Sample Number ID</b>	HT08SOY002-04-41	HT08SOY002-05-41	HT08SOY002-06-41
<b>Location</b>	Perry	Adel	Winterset
<b>Regimen</b>	D	D	D
<b>Description</b>	2686-6	2686-6	2686-6
<b>BTID No.</b>	1750J	1751J	1752J
<b>Covance LIMS Number</b>	90100083	90100106	90100071

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	2.03	1.75	1.93
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.742	0.633	0.654
18:1 Oleic	4.24	3.65	3.81
18:2 Linoleic	10.7	9.15	9.88
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.64	1.37	1.69
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0517	0.0457	0.0479
20:1 Eicosenoic	0.0298	0.0274	0.0263
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0507	0.0455	0.0490
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	3.01	3.24	3.42
Vitamin B1/Thiamine HCl (ppm)	4.0	3.5	4.0
Vitamin B2/Riboflavin (ppm)	4.13	4.66	3.89
Vitamin K (ppm)	0.138	0.132	0.206
Vitamin A/Beta Carotene (ppm)	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 10**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen D**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-41	HT08SOY002-08-41	HT08SOY002-09-41
<b>Location</b>	Osborn	Fithian	Sharpsville
<b>Regimen</b>	D	D	D
<b>Description</b>	2686-6	2686-6	2686-6
<b>BTID No.</b>	1753J	1754J	1755J
<b>Covance LIMS Number</b>	90100099	90100085	90100075
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	9.44	9.89	8.00
Protein	37.4	36.6	39.0
Total Fat	20.5	21.0	20.5
Ash	5.11	5.35	5.70
Carbohydrates	36.9	37.1	34.8
Acid Detergent Fiber (%)	19.3	17.6	17.4
Neutral Detergent Fiber (%)	23.3	19.5	20.9
Phytic Acid (%)	1.37	1.41	1.35
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	18.9	20.0	23.7
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	168	186	183
Delta Tocopherol	67.5	78.7	63.6
Total Tocopherols	254	285	270
<b>Minerals (ppm)</b>			
Iron	71.0	64.3	175 <sup>1</sup>
<b>Minerals (%)</b>			
Calcium	0.325	0.302	0.309
Magnesium	0.261	0.254	0.237
Phosphorus	0.587	0.603	0.598
Potassium	1.89	1.91	1.95
Sodium	< LOQ	< LOQ	< LOQ

<sup>1</sup> Confirmed by retest.

LOQ-Limit of Quantitation

**Table 10**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen D**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-41	HT08SOY002-08-41	HT08SOY002-09-41
<b>Location</b>	Osborn	Fithian	Sharpsville
<b>Regimen</b>	D	D	D
<b>Description</b>	2686-6	2686-6	2686-6
<b>BTID No.</b>	1753J	1754J	1755J
<b>Covance LIMS Number</b>	90100099	90100085	90100075

**Amino Acids (%)**

Aspartic Acid	4.26	4.29	4.52
Threonine	1.53	1.53	1.55
Serine	1.90	1.94	1.92
Glutamic Acid	6.56	6.58	7.02
Proline	1.73	1.83	1.91
Glycine	1.61	1.63	1.72
Alanine	1.63	1.65	1.74
Cystine	0.622	0.576	0.587
Valine	1.81	1.82	1.99
Methionine	0.561	0.536	0.546
Isoleucine	1.78	1.76	1.92
Leucine	2.89	2.91	3.05
Tyrosine	1.37	1.39	1.37
Phenylalanine	1.93	1.88	2.00
Lysine	2.44	2.45	2.55
Histidine	0.977	0.995	1.03
Arginine	2.85	2.85	2.98
Tryptophan	0.498	0.471	0.498

\*Lectin (H.U./mg)

\*\*Trypsin Inhibitor (TIU/mg)

\*H.U. - Hemagglutinating Unit

\*\*TIU - Trypsin Inhibitor Unit

Raffinose (%)	0.366	0.465	0.379
Stachyose (%)	2.32	2.66	2.78

**Isoflavones (ppm)**

Daidzein	< LOQ	< LOQ	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	< LOQ	< LOQ	< LOQ
Daidzin	988	1270	568
Glycitin	184	195	170
Genistin	2290	2640	1130
Total Aglycone Equivalents	2150	2550	1160

LOQ-Limit of Quantitation

**Table 10**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen D**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-41	HT08SOY002-08-41	HT08SOY002-09-41
<b>Location</b>	Osborn	Fithian	Sharpsville
<b>Regimen</b>	D	D	D
<b>Description</b>	2686-6	2686-6	2686-6
<b>BTID No.</b>	1753J	1754J	1755J
<b>Covance LIMS Number</b>	90100099	90100085	90100075

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	2.05	2.13	1.99
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	0.0227	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.787	0.722	0.836
18:1 Oleic	4.59	4.37	4.73
18:2 Linoleic	10.6	11.2	10.4
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.55	1.64	1.49
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0527	0.0510	0.0603
20:1 Eicosenoic	0.0330	0.0326	0.0347
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0559	0.0514	0.0561
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.0276	< LOQ	0.0284
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	3.64	3.26	3.78
Vitamin B1/Thiamine HCl (ppm)	3.4	3.7	4.7
Vitamin B2/Riboflavin (ppm)	3.36	3.71	4.01
Vitamin K (ppm)	0.162	0.166	0.247
Vitamin A/Beta Carotene (ppm)	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 10**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen D**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-41
<b>Location</b>	Mediapolis
<b>Regimen</b>	D
<b>Description</b>	2686-6
<b>BTID No.</b>	1756J
<b>Covance LIMS Number</b>	90100042
<b>Proximate (%)</b>	
Moisture (fresh weight basis)	9.78
Protein	37.9
Total Fat	21.4
Ash	5.05
Carbohydrates	35.7
Acid Detergent Fiber (%)	17.3
Neutral Detergent Fiber (%)	18.1
Phytic Acid (%)	1.08
<b>Tocopherols (ppm)</b>	
Alpha Tocopherol	16.2
Beta Tocopherol	< LOQ
Gamma Tocopherol	183
Delta Tocopherol	72.3
Total Tocopherols	272
<b>Minerals (ppm)</b>	
Iron	70.1
<b>Minerals (%)</b>	
Calcium	0.347
Magnesium	0.250
Phosphorus	0.558
Potassium	1.85
Sodium	< LOQ

LOQ-Limit of Quantitation

**Table 10**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen D**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-41
<b>Location</b>	Mediapolis
<b>Regimen</b>	D
<b>Description</b>	2686-6
<b>BTID No.</b>	1756J
<b>Covance LIMS Number</b>	90100042

**Amino Acids (%)**

Aspartic Acid	4.39
Threonine	1.53
Serine	1.98
Glutamic Acid	6.76
Proline	1.80
Glycine	1.66
Alanine	1.68
Cystine	0.606
Valine	1.87
Methionine	0.564
Isoleucine	1.82
Leucine	2.97
Tyrosine	1.41
Phenylalanine	1.93
Lysine	2.50
Histidine	1.01
Arginine	2.87
Tryptophan	0.442

\*Lectin (H.U./mg) 2.00

\*\*Trypsin Inhibitor (TIU/mg) 29.8

\*H.U. - Hemagglutinating Unit

\*\*TIU - Trypsin Inhibitor Unit

Raffinose (%) 0.352

Stachyose (%) 2.80

**Isoflavones (ppm)**

Daidzein	< LOQ
Glycitein	< LOQ
Genistein	< LOQ
Daidzin	773
Glycitin	181
Genistin	1800
Total Aglycone Equivalents	1710

LOQ-Limit of Quantitation

**Table 10**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen D**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-41
<b>Location</b>	Mediapolis
<b>Regimen</b>	D
<b>Description</b>	2686-6
<b>BTID No.</b>	1756J
<b>Covance LIMS Number</b>	90100042

**Fatty Acids (%)**

8:0 Caprylic	< LOQ
10:0 Capric	< LOQ
12:0 Lauric	< LOQ
14:0 Myristic	< LOQ
14:1 Myristoleic	< LOQ
15:0 Pentadecanoic	< LOQ
15:1 Pentadecenoic	< LOQ
16:0 Palmitic	2.12
16:1 Palmitoleic	< LOQ
17:0 Heptadecanoic	< LOQ
17:1 Heptadecenoic	< LOQ
18:0 Stearic	0.777
18:1 Oleic	4.62
18:2 Linoleic	11.2
18:3 Gamma Linolenic	< LOQ
18:3 Linolenic	1.57
18:4 Octadecatetraenoic	< LOQ
20:0 Arachidic	0.0551
20:1 Eicosenoic	0.0344
20:2 Eicosadienoic	< LOQ
20:4 Arachidonic	< LOQ
20:3 Eicosatrienoic	< LOQ
20:5 Eicosapentaenoic	< LOQ
22:0 Behenic	0.0555
22:1 Erucic	< LOQ
22:5 Docosapentaenoic	< LOQ
24:0 Lignoceric	0.0276
22:6 Docosahexaenoic	< LOQ

Folic Acid (ppm)	2.19
Vitamin B1/Thiamine HCl (ppm)	2.9
Vitamin B2/Riboflavin (ppm)	5.87
Vitamin K (ppm)	< LOQ
Vitamin A/Beta Carotene (ppm)	< LOQ

LOQ-Limit of Quantitation



**Table 11**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen E**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-01-42</b>	<b>HT08SOY002-02-42</b>	<b>HT08SOY002-03-42</b>
<b>Location</b>	Marcus	Iowa Falls	Glidden
<b>Regimen</b>	E	E	E
<b>Description</b>	2788	2788	2788
<b>BTID No.</b>	1747K	1748K	1749K
<b>Covance LIMS Number</b>	90100088	90100048	90100079
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	9.84	10.6	9.97
Protein	38.9	37.8	36.3
Total Fat	19.5	20.5	21.0
Ash	5.27	5.10	5.63
Carbohydrates	36.3	36.6	37.1
Acid Detergent Fiber (%)	14.6	13.6	16.2
Neutral Detergent Fiber (%)	18.0	16.1	18.5
Phytic Acid (%)	1.10	1.14	1.48
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	15.0	17.4	17.3
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	172	179	190
Delta Tocopherol	90.1	99.2	84.9
Total Tocopherols	277	295	292
<b>Minerals (ppm)</b>			
Iron	70.9	58.8	88.3
<b>Minerals (%)</b>			
Calcium	0.212	0.236	0.250
Magnesium	0.224	0.244	0.247
Phosphorus	0.576	0.549	0.651
Potassium	2.03	1.96	2.11
Sodium	< LOQ	0.0225	< LOQ

LOQ-Limit of Quantitation

**Table 11**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen E**

<b>Bayer Sample Number ID</b>	HT08SOY002-01-42	HT08SOY002-02-42	HT08SOY002-03-42
<b>Location</b>	Marcus	Iowa Falls	Glidden
<b>Regimen</b>	E	E	E
<b>Description</b>	2788	2788	2788
<b>BTID No.</b>	1747K	1748K	1749K
<b>Covance LIMS Number</b>	90100088	90100048	90100079
<b>Amino Acids (%)</b>			
Aspartic Acid	4.43	4.37	4.18
Threonine	1.56	1.53	1.47
Serine	1.91	2.01	1.83
Glutamic Acid	7.04	6.96	6.56
Proline	1.85	1.80	1.74
Glycine	1.67	1.63	1.58
Alanine	1.71	1.67	1.62
Cystine	0.580	0.570	0.551
Valine	1.94	1.85	1.82
Methionine	0.561	0.554	0.543
Isoleucine	1.85	1.76	1.73
Leucine	2.99	2.95	2.82
Tyrosine	1.41	1.41	1.32
Phenylalanine	2.04	1.95	1.87
Lysine	2.57	2.51	2.42
Histidine	1.05	1.03	0.983
Arginine	3.12	3.02	2.82
Tryptophan	0.486	0.419	0.453
*Lectin (H.U./mg)	0.901	1.07	1.48
**Trypsin Inhibitor (TIU/mg)	34.5	41.8	38.9
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.375	0.351	0.504
Stachyose (%)	2.38	2.61	2.69
<b>Isoflavones (ppm)</b>			
Daidzein	11.3	< LOQ	11.7
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	< LOQ	< LOQ	< LOQ
Daidzin	1520	1890	1390
Glycitin	298	246	315
Genistin	2450	2980	2530
Total Aglycone Equivalents	2660	3170	2640

LOQ-Limit of Quantitation

**Table 11**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen E**

<b>Bayer Sample Number ID</b>	HT08SOY002-01-42	HT08SOY002-02-42	HT08SOY002-03-42
<b>Location</b>	Marcus	Iowa Falls	Glidden
<b>Regimen</b>	E	E	E
<b>Description</b>	2788	2788	2788
<b>BTID No.</b>	1747K	1748K	1749K
<b>Covance LIMS Number</b>	90100088	90100048	90100079

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.85	1.94	2.02
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	0.0223	< LOQ	0.0235
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.796	0.821	0.896
18:1 Oleic	4.13	4.27	4.41
18:2 Linoleic	10.1	10.5	11.0
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.79	1.92	1.97
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0571	0.0594	0.0638
20:1 Eicosenoic	0.0273	0.0298	0.0320
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0580	0.0612	0.0646
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	3.62	3.20	3.45
Vitamin B1/Thiamine HCl (ppm)	3.1	1.6	3.0
Vitamin B2/Riboflavin (ppm)	4.55	3.86	4.12
Vitamin K (ppm)	0.120	< LOQ	0.126
Vitamin A/Beta Carotene (ppm)	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 11**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen E**

<b>Bayer Sample Number ID</b>	HT08SOY002-04-42	HT08SOY002-05-42	HT08SOY002-06-42
<b>Location</b>	Perry	Adel	Winterset
<b>Regimen</b>	E	E	E
<b>Description</b>	2788	2788	2788
<b>BTID No.</b>	1750K	1751K	1752K
<b>Covance LIMS Number</b>	90100076	90100039	90100098
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	8.86	8.87	9.82
Protein	36.8	36.9	39.1
Total Fat	20.3	20.1	18.9
Ash	5.51	5.33	4.98
Carbohydrates	37.4	37.7	37.0
Acid Detergent Fiber (%)	16.5	14.9	16.9
Neutral Detergent Fiber (%)	18.5	17.9	19.7
Phytic Acid (%)	1.33	1.17	1.43
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	18.2	16.5	15.0
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	174	184	164
Delta Tocopherol	81.0	76.5	72.6
Total Tocopherols	273	278	252
<b>Minerals (ppm)</b>			
Iron	79.3	75.4	76.0
<b>Minerals (%)</b>			
Calcium	0.255	0.256	0.245
Magnesium	0.248	0.248	0.231
Phosphorus	0.627	0.589	0.602
Potassium	2.02	1.98	2.00
Sodium	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 11**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen E**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-04-42</b>	<b>HT08SOY002-05-42</b>	<b>HT08SOY002-06-42</b>
<b>Location</b>	Perry	Adel	Winterset
<b>Regimen</b>	E	E	E
<b>Description</b>	2788	2788	2788
<b>BTID No.</b>	1750K	1751K	1752K
<b>Covance LIMS Number</b>	90100076	90100039	90100098
<b>Amino Acids (%)</b>			
Aspartic Acid	4.14	4.17	4.55
Threonine	1.44	1.47	1.60
Serine	1.77	1.92	2.00
Glutamic Acid	6.56	6.63	7.22
Proline	1.76	1.71	1.87
Glycine	1.58	1.57	1.70
Alanine	1.62	1.59	1.73
Cystine	0.503	0.557	0.580
Valine	1.85	1.72	1.96
Methionine	0.507	0.541	0.557
Isoleucine	1.76	1.66	1.89
Leucine	2.82	2.80	3.06
Tyrosine	1.32	1.34	1.44
Phenylalanine	1.88	1.83	2.08
Lysine	2.39	2.38	2.62
Histidine	0.981	0.974	1.06
Arginine	2.83	2.85	3.13
Tryptophan	0.448	0.424	0.459
*Lectin (H.U./mg)	0.908	1.13	1.22
**Trypsin Inhibitor (TIU/mg)	34.0	28.2	37.0
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.474	0.470	0.386
Stachyose (%)	2.46	2.80	2.42
<b>Isoflavones (ppm)</b>			
Daidzein	12.5	< LOQ	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	< LOQ	< LOQ	< LOQ
Daidzin	1290	1110	1030
Glycitin	273	255	278
Genistin	2420	1900	1770
Total Aglycone Equivalents	2490	2030	1920

LOQ-Limit of Quantitation

**Table 11**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen E**

<b>Bayer Sample Number ID</b>	HT08SOY002-04-42	HT08SOY002-05-42	HT08SOY002-06-42
<b>Location</b>	Perry	Adel	Winterset
<b>Regimen</b>	E	E	E
<b>Description</b>	2788	2788	2788
<b>BTID No.</b>	1750K	1751K	1752K
<b>Covance LIMS Number</b>	90100076	90100039	90100098

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.92	1.89	1.82
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.885	0.867	0.777
18:1 Oleic	4.44	4.35	3.84
18:2 Linoleic	10.4	10.1	9.72
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.77	1.62	1.76
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0622	0.0619	0.0539
20:1 Eicosenoic	0.0302	0.0297	0.0271
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0599	0.0618	0.0583
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.0260	< LOQ	0.0223
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	3.76	2.86	3.16
Vitamin B1/Thiamine HCl (ppm)	2.9	2.3	3.1
Vitamin B2/Riboflavin (ppm)	3.77	6.38	4.07
Vitamin K (ppm)	0.151	< LOQ	0.203
Vitamin A/Beta Carotene (ppm)	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 11**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen E**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-42	HT08SOY002-08-42	HT08SOY002-09-42
<b>Location</b>	Osborn	Fithian	Sharpsville
<b>Regimen</b>	E	E	E
<b>Description</b>	2788	2788	2788
<b>BTID No.</b>	1753K	1754K	1755K
<b>Covance LIMS Number</b>	90100129	90100052	90100026
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	9.19	9.86	8.42
Protein	36.6	37.3	38.5
Total Fat	19.2	21.2	20.0
Ash	5.40	5.23	5.73
Carbohydrates	38.9	36.3	35.7
Acid Detergent Fiber (%)	23.5	17.3	16.9
Neutral Detergent Fiber (%)	24.8	18.3	17.8
Phytic Acid (%)	1.23	1.24	1.23
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	18.6	21.4	22.8
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	187	196	199
Delta Tocopherol	75.4	82.5	71.7
Total Tocopherols	281	301	294
<b>Minerals (ppm)</b>			
Iron	73.9	66.2	163 <sup>1</sup>
<b>Minerals (%)</b>			
Calcium	0.295	0.262	0.276
Magnesium	0.263	0.260	0.242
Phosphorus	0.562	0.570	0.586
Potassium	1.91	1.94	1.99
Sodium	0.0238	0.0164	0.0261

<sup>1</sup> Confirmed by retest.

LOQ-Limit of Quantitation

**Table 11**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen E**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-42	HT08SOY002-08-42	HT08SOY002-09-42
<b>Location</b>	Osborn	Fithian	Sharpsville
<b>Regimen</b>	E	E	E
<b>Description</b>	2788	2788	2788
<b>BTID No.</b>	1753K	1754K	1755K
<b>Covance LIMS Number</b>	90100129	90100052	90100026
<b>Amino Acids (%)</b>			
Aspartic Acid	4.26	4.29	4.26
Threonine	1.48	1.51	1.47
Serine	1.89	2.00	1.90
Glutamic Acid	6.73	6.80	6.78
Proline	1.78	1.76	1.80
Glycine	1.61	1.60	1.63
Alanine	1.64	1.62	1.63
Cystine	0.535	0.582	0.580
Valine	1.84	1.79	1.82
Methionine	0.499	0.560	0.546
Isoleucine	1.76	1.71	1.76
Leucine	2.87	2.88	2.86
Tyrosine	1.34	1.38	1.38
Phenylalanine	1.91	1.90	1.88
Lysine	2.46	2.44	2.44
Histidine	0.990	0.998	0.991
Arginine	2.93	2.92	2.93
Tryptophan	0.385	0.426	0.431
*Lectin (H.U./mg)	1.13	1.40	1.41
**Trypsin Inhibitor (TIU/mg)	31.2	29.7	24.6
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.339	0.391	0.382
Stachyose (%)	2.55	2.75	2.80
<b>Isoflavones (ppm)</b>			
Daidzein	< LOQ	< LOQ	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	< LOQ	< LOQ	< LOQ
Daidzin	991	1420	750
Glycitin	254	258	281
Genistin	1980	2530	1300
Total Aglycone Equivalents	2000	2610	1450

LOQ-Limit of Quantitation



**Table 11**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen E**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-42	HT08SOY002-08-42	HT08SOY002-09-42
<b>Location</b>	Osborn	Fithian	Sharpsville
<b>Regimen</b>	E	E	E
<b>Description</b>	2788	2788	2788
<b>BTID No.</b>	1753K	1754K	1755K
<b>Covance LIMS Number</b>	90100129	90100052	90100026

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.85	2.03	1.85
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	0.0224	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.862	0.866	0.902
18:1 Oleic	4.46	4.60	4.42
18:2 Linoleic	9.58	11.1	9.85
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.55	1.73	1.58
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0635	0.0622	0.0662
20:1 Eicosenoic	0.0313	0.0332	0.0313
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0613	0.0612	0.0622
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.0233	0.0281	< LOQ
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	3.44	3.59	3.34
Vitamin B1/Thiamine HCl (ppm)	2.8	2.3	3.1
Vitamin B2/Riboflavin (ppm)	4.86	5.55	3.90
Vitamin K (ppm)	0.227	0.131	< LOQ
Vitamin A/Beta Carotene (ppm)	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 11**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen E**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-42
<b>Location</b>	Mediapolis
<b>Regimen</b>	E
<b>Description</b>	2788
<b>BTID No.</b>	1756K
<b>Covance LIMS Number</b>	90100090
<b>Proximate (%)</b>	
Moisture (fresh weight basis)	8.88
Protein	37.1
Total Fat	20.4
Ash	5.25
Carbohydrates	37.2
Acid Detergent Fiber (%)	18.3
Neutral Detergent Fiber (%)	22.5
Phytic Acid (%)	1.24
<b>Tocopherols (ppm)</b>	
Alpha Tocopherol	24.9
Beta Tocopherol	< LOQ
Gamma Tocopherol	237
Delta Tocopherol	83.7
Total Tocopherols	346
<b>Minerals (ppm)</b>	
Iron	67.2
<b>Minerals (%)</b>	
Calcium	0.317
Magnesium	0.228
Phosphorus	0.562
Potassium	1.91
Sodium	< LOQ

LOQ-Limit of Quantitation

**Table 11**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen E**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-42
<b>Location</b>	Mediapolis
<b>Regimen</b>	E
<b>Description</b>	2788
<b>BTID No.</b>	1756K
<b>Covance LIMS Number</b>	90100090
<b>Amino Acids (%)</b>	
Aspartic Acid	4.06
Threonine	1.46
Serine	1.84
Glutamic Acid	6.32
Proline	1.74
Glycine	1.53
Alanine	1.55
Cystine	0.584
Valine	1.66
Methionine	0.544
Isoleucine	1.62
Leucine	2.71
Tyrosine	1.32
Phenylalanine	1.84
Lysine	2.34
Histidine	0.933
Arginine	2.69
Tryptophan	0.468
*Lectin (H.U./mg)	1.14
**Trypsin Inhibitor (TIU/mg)	49.5
*H.U. - Hemagglutinating Unit	
**TIU - Trypsin Inhibitor Unit	
Raffinose (%)	0.388
Stachyose (%)	2.23
<b>Isoflavones (ppm)</b>	
Daidzein	< LOQ
Glycitein	< LOQ
Genistein	< LOQ
Daidzin	736
Glycitin	303
Genistin	1450
Total Aglycone Equivalents	1550

LOQ-Limit of Quantitation

**Table 11**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen E**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-42
<b>Location</b>	Mediapolis
<b>Regimen</b>	E
<b>Description</b>	2788
<b>BTID No.</b>	1756K
<b>Covance LIMS Number</b>	90100090

**Fatty Acids (%)**

8:0 Caprylic	< LOQ
10:0 Capric	< LOQ
12:0 Lauric	< LOQ
14:0 Myristic	< LOQ
14:1 Myristoleic	< LOQ
15:0 Pentadecanoic	< LOQ
15:1 Pentadecenoic	< LOQ
16:0 Palmitic	1.92
16:1 Palmitoleic	< LOQ
17:0 Heptadecanoic	< LOQ
17:1 Heptadecenoic	< LOQ
18:0 Stearic	0.865
18:1 Oleic	4.55
18:2 Linoleic	10.5
18:3 Gamma Linolenic	< LOQ
18:3 Linolenic	1.62
18:4 Octadecatetraenoic	< LOQ
20:0 Arachidic	0.0637
20:1 Eicosenoic	0.0340
20:2 Eicosadienoic	< LOQ
20:4 Arachidonic	< LOQ
20:3 Eicosatrienoic	< LOQ
20:5 Eicosapentaenoic	< LOQ
22:0 Behenic	0.0605
22:1 Erucic	< LOQ
22:5 Docosapentaenoic	< LOQ
24:0 Lignoceric	0.0233
22:6 Docosaheptaenoic	< LOQ

Folic Acid (ppm)	3.31
Vitamin B1/Thiamine HCl (ppm)	3.1
Vitamin B2/Riboflavin (ppm)	4.42
Vitamin K (ppm)	0.229
Vitamin A/Beta Carotene (ppm)	< LOQ

LOQ-Limit of Quantitation

**Table 12**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen F**

<b>Bayer Sample Number ID</b>	HT08SOY002-01-43	HT08SOY002-02-43	HT08SOY002-03-43
<b>Location</b>	Marcus	Iowa Falls	Glidden
<b>Regimen</b>	F	F	F
<b>Description</b>	3000-0	3000-0	3000-0
<b>BTID No.</b>	1747L	1748L	1749L
<b>Covance LIMS Number</b>	90100100	90100123	90100108
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	10.3	10.6	9.42
Protein	39.0	38.3	38.4
Total Fat	17.7	15.1	16.4
Ash	4.91	5.09	5.33
Carbohydrates	38.4	41.6	39.9
Acid Detergent Fiber (%)	16.7	18.5	15.9
Neutral Detergent Fiber (%)	20.0	20.9	17.7
Phytic Acid (%)	1.04	1.14	1.36
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	13.9	12.9	16.1
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	153	155	169
Delta Tocopherol	58.5	60.0	52.9
Total Tocopherols	225	228	238
<b>Minerals (ppm)</b>			
Iron	63.0	63.3	77.4
<b>Minerals (%)</b>			
Calcium	0.236	0.233	0.253
Magnesium	0.197	0.211	0.220
Phosphorus	0.499	0.529	0.617
Potassium	1.88	1.91	2.01
Sodium	< LOQ	0.0116	< LOQ

LOQ-Limit of Quantitation

**Table 12**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen F**

<b>Bayer Sample Number ID</b>	HT08SOY002-01-43	HT08SOY002-02-43	HT08SOY002-03-43
<b>Location</b>	Marcus	Iowa Falls	Glidden
<b>Regimen</b>	F	F	F
<b>Description</b>	3000-0	3000-0	3000-0
<b>BTID No.</b>	1747L	1748L	1749L
<b>Covance LIMS Number</b>	90100100	90100123	90100108
<b>Amino Acids (%)</b>			
Aspartic Acid	4.29	4.26	4.42
Threonine	1.55	1.51	1.52
Serine	1.95	1.96	1.95
Glutamic Acid	6.76	6.72	7.02
Proline	1.84	1.79	1.91
Glycine	1.64	1.62	1.68
Alanine	1.62	1.62	1.69
Cystine	0.562	0.566	0.570
Valine	1.76	1.74	1.91
Methionine	0.554	0.548	0.541
Isoleucine	1.68	1.67	1.80
Leucine	2.88	2.86	2.96
Tyrosine	1.38	1.36	1.40
Phenylalanine	1.94	1.88	1.94
Lysine	2.43	2.42	2.53
Histidine	1.00	0.999	1.04
Arginine	2.98	2.90	3.04
Tryptophan	0.463	0.435	0.454
*Lectin (H.U./mg)	0.455	0.690	0.966
**Trypsin Inhibitor (TIU/mg)	29.3	38.4	29.8
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.338	0.290	0.363
Stachyose (%)	2.27	2.23	2.76
<b>Isoflavones (ppm)</b>			
Daidzein	11.1	< LOQ	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	< LOQ	< LOQ	< LOQ
Daidzin	2300	2530	1910
Glycitin	204	192	226
Genistin	2470	2760	2300
Total Aglycone Equivalents	3090	3390	2750

LOQ-Limit of Quantitation

**Table 12**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen F**

<b>Bayer Sample Number ID</b>	HT08SOY002-01-43	HT08SOY002-02-43	HT08SOY002-03-43
<b>Location</b>	Marcus	Iowa Falls	Glidden
<b>Regimen</b>	F	F	F
<b>Description</b>	3000-0	3000-0	3000-0
<b>BTID No.</b>	1747L	1748L	1749L
<b>Covance LIMS Number</b>	90100100	90100123	90100108

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.86	1.57	1.77
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.681	0.568	0.652
18:1 Oleic	3.79	3.00	3.40
18:2 Linoleic	8.99	7.42	8.40
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.55	1.43	1.64
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0477	0.0428	0.0495
20:1 Eicosenoic	0.0264	< LOQ	0.0251
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0559	0.0455	0.0526
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	3.79	3.47	3.17
Vitamin B1/Thiamine HCl (ppm)	2.1	1.8	2.0
Vitamin B2/Riboflavin (ppm)	3.69	3.59	5.63
Vitamin K (ppm)	< LOQ	< LOQ	0.144
Vitamin A/Beta Carotene (ppm)	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 12**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen F**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-04-43</b>	<b>HT08SOY002-05-43</b>	<b>HT08SOY002-06-43</b>
<b>Location</b>	Perry	Adel	Winterset
<b>Regimen</b>	F	F	F
<b>Description</b>	3000-0	3000-0	3000-0
<b>BTID No.</b>	1750L	1751L	1752L
<b>Covance LIMS Number</b>	90100115	90100104	90100063
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	9.84	9.55	10.6
Protein	39.2	37.9	39.6
Total Fat	16.5	16.0	17.8
Ash	5.14	5.06	5.41
Carbohydrates	39.2	41.0	37.2
Acid Detergent Fiber (%)	21.1	17.2	15.0
Neutral Detergent Fiber (%)	21.4	21.0	16.8
Phytic Acid (%)	1.19	0.984	1.33
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	17.4	16.1	18.7
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	163	176	172
Delta Tocopherol	48.7	45.6	50.4
Total Tocopherols	230	238	242
<b>Minerals (ppm)</b>			
Iron	71.9	70.8	69.1
<b>Minerals (%)</b>			
Calcium	0.260	0.261	0.256
Magnesium	0.213	0.220	0.217
Phosphorus	0.579	0.549	0.610
Potassium	1.92	2.02	2.04
Sodium	0.0210	< LOQ	< LOQ

LOQ-Limit of Quantitation



**Table 12**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen F**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-04-43</b>	<b>HT08SOY002-05-43</b>	<b>HT08SOY002-06-43</b>
<b>Location</b>	Perry	Adel	Winterset
<b>Regimen</b>	F	F	F
<b>Description</b>	3000-0	3000-0	3000-0
<b>BTID No.</b>	1750L	1751L	1752L
<b>Covance LIMS Number</b>	90100115	90100104	90100063
<b>Amino Acids (%)</b>			
Aspartic Acid	4.45	4.42	4.45
Threonine	1.54	1.50	1.60
Serine	1.99	1.93	2.02
Glutamic Acid	7.11	7.00	7.01
Proline	1.91	1.87	1.86
Glycine	1.70	1.68	1.69
Alanine	1.71	1.69	1.68
Cystine	0.551	0.565	0.588
Valine	1.91	1.91	1.82
Methionine	0.553	0.540	0.581
Isoleucine	1.82	1.82	1.77
Leucine	2.99	2.97	3.00
Tyrosine	1.38	1.39	1.42
Phenylalanine	1.96	1.96	2.00
Lysine	2.54	2.52	2.53
Histidine	1.05	1.04	1.04
Arginine	3.03	3.01	3.00
Tryptophan	0.465	0.436	0.480
*Lectin (H.U./mg)	0.801	1.16	1.32
**Trypsin Inhibitor (TIU/mg)	26.0	26.3	35.9
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.319	0.338	0.359
Stachyose (%)	2.34	2.33	2.37
<b>Isoflavones (ppm)</b>			
Daidzein	< LOQ	14.0	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	< LOQ	< LOQ	< LOQ
Daidzin	1810	1990	1850
Glycitin	216	229	215
Genistin	2110	2200	2080
Total Aglycone Equivalents	2560	2750	2560

LOQ-Limit of Quantitation

**Table 12**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen F**

<b>Bayer Sample Number ID</b>	HT08SOY002-04-43	HT08SOY002-05-43	HT08SOY002-06-43
<b>Location</b>	Perry	Adel	Winterset
<b>Regimen</b>	F	F	F
<b>Description</b>	3000-0	3000-0	3000-0
<b>BTID No.</b>	1750L	1751L	1752L
<b>Covance LIMS Number</b>	90100115	90100104	90100063

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.75	1.69	1.92
16:1 Palmitoleic	< LOQ	0.0155	< LOQ
17:0 Heptadecanoic	< LOQ	0.0174	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.709	0.635	0.674
18:1 Oleic	3.68	3.45	3.72
18:2 Linoleic	8.20	7.97	8.94
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.45	1.34	1.63
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0537	0.0493	0.0510
20:1 Eicosenoic	0.0268	0.0260	0.0275
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0537	0.0513	0.0547
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	3.93	3.70	3.50
Vitamin B1/Thiamine HCl (ppm)	2.3	2.7	3.0
Vitamin B2/Riboflavin (ppm)	4.20	4.95	3.66
Vitamin K (ppm)	0.192	0.155	0.142
Vitamin A/Beta Carotene (ppm)	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 12**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen F**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-43	HT08SOY002-08-43	HT08SOY002-09-43
<b>Location</b>	Osborn	Fithian	Sharpsville
<b>Regimen</b>	F	F	F
<b>Description</b>	3000-0	3000-0	3000-0
<b>BTID No.</b>	1753L	1754L	1755L
<b>Covance LIMS Number</b>	90100134	90100027	90100070
<b>Proximate (%)</b>			
Moisture (fresh weight basis)	9.69	10.5	8.96
Protein	36.5	38.9	40.1
Total Fat	18.0	18.3	18.3
Ash	5.60	5.42	5.34
Carbohydrates	39.9	37.4	36.2
Acid Detergent Fiber (%)	20.7	17.0	15.9
Neutral Detergent Fiber (%)	22.3	17.9	17.9
Phytic Acid (%)	1.42	1.22	1.26
<b>Tocopherols (ppm)</b>			
Alpha Tocopherol	18.9	16.9	19.4
Beta Tocopherol	< LOQ	< LOQ	< LOQ
Gamma Tocopherol	189	188	174
Delta Tocopherol	48.4	50.3	41.5
Total Tocopherols	257	255	235
<b>Minerals (ppm)</b>			
Iron	67.8	66.4	70.0
<b>Minerals (%)</b>			
Calcium	0.265	0.278	0.274
Magnesium	0.228	0.226	0.211
Phosphorus	0.588	0.610	0.569
Potassium	2.07	2.01	2.09
Sodium	0.0125	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 12**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen F**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-43	HT08SOY002-08-43	HT08SOY002-09-43
<b>Location</b>	Osborn	Fithian	Sharpsville
<b>Regimen</b>	F	F	F
<b>Description</b>	3000-0	3000-0	3000-0
<b>BTID No.</b>	1753L	1754L	1755L
<b>Covance LIMS Number</b>	90100134	90100027	90100070
<b>Amino Acids (%)</b>			
Aspartic Acid	4.09	4.37	4.45
Threonine	1.49	1.52	1.56
Serine	1.87	1.96	2.00
Glutamic Acid	6.39	6.92	7.07
Proline	1.73	1.84	1.93
Glycine	1.57	1.66	1.69
Alanine	1.57	1.66	1.68
Cystine	0.582	0.580	0.549
Valine	1.71	1.87	1.82
Methionine	0.547	0.546	0.538
Isoleucine	1.64	1.79	1.76
Leucine	2.75	2.95	2.97
Tyrosine	1.33	1.40	1.41
Phenylalanine	1.85	1.93	1.96
Lysine	2.38	2.46	2.48
Histidine	0.966	1.02	1.02
Arginine	2.79	2.94	2.99
Tryptophan	0.434	0.440	0.511
*Lectin (H.U./mg)	0.591	0.936	1.94
**Trypsin Inhibitor (TIU/mg)	24.4	23.5	36.7
*H.U. - Hemagglutinating Unit			
**TIU - Trypsin Inhibitor Unit			
Raffinose (%)	0.358	0.362	0.395
Stachyose (%)	2.67	2.74	2.42
<b>Isoflavones (ppm)</b>			
Daidzein	11.4	< LOQ	< LOQ
Glycitein	< LOQ	< LOQ	< LOQ
Genistein	< LOQ	< LOQ	< LOQ
Daidzin	1760	1940	1080
Glycitin	241	215	237
Genistin	2150	2160	1250
Total Aglycone Equivalents	2580	2670	1590

LOQ-Limit of Quantitation

**Table 12**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen F**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-43	HT08SOY002-08-43	HT08SOY002-09-43
<b>Location</b>	Osborn	Fithian	Sharpsville
<b>Regimen</b>	F	F	F
<b>Description</b>	3000-0	3000-0	3000-0
<b>BTID No.</b>	1753L	1754L	1755L
<b>Covance LIMS Number</b>	90100134	90100027	90100070

**Fatty Acids (%)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	1.98	1.79	1.94
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	0.741	0.668	0.807
18:1 Oleic	4.00	3.73	4.16
18:2 Linoleic	9.06	8.63	9.13
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	1.49	1.36	1.48
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.0567	0.0497	0.0616
20:1 Eicosenoic	0.0307	0.0269	0.0308
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.0588	0.0504	0.0622
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

Folic Acid (ppm)	3.45	3.04	4.33
Vitamin B1/Thiamine HCl (ppm)	3.1	2.6	3.2
Vitamin B2/Riboflavin (ppm)	5.79	4.36	4.44
Vitamin K (ppm)	0.242	< LOQ	0.263
Vitamin A/Beta Carotene (ppm)	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 12**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen F**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-43
<b>Location</b>	Mediapolis
<b>Regimen</b>	F
<b>Description</b>	3000-0
<b>BTID No.</b>	1756L
<b>Covance LIMS Number</b>	90100078
<b>Proximate (%)</b>	
Moisture (fresh weight basis)	10.2
Protein	38.8
Total Fat	19.2
Ash	5.31
Carbohydrates	36.7
Acid Detergent Fiber (%)	17.3
Neutral Detergent Fiber (%)	19.7
Phytic Acid (%)	1.17
<b>Tocopherols (ppm)</b>	
Alpha Tocopherol	20.0
Beta Tocopherol	< LOQ
Gamma Tocopherol	189
Delta Tocopherol	46.7
Total Tocopherols	256
<b>Minerals (ppm)</b>	
Iron	64.6
<b>Minerals (%)</b>	
Calcium	0.315
Magnesium	0.210
Phosphorus	0.567
Potassium	1.97
Sodium	< LOQ

LOQ-Limit of Quantitation

**Table 12**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen F**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-43
<b>Location</b>	Mediapolis
<b>Regimen</b>	F
<b>Description</b>	3000-0
<b>BTID No.</b>	1756L
<b>Covance LIMS Number</b>	90100078

**Amino Acids (%)**

Aspartic Acid	4.52
Threonine	1.54
Serine	1.92
Glutamic Acid	7.14
Proline	1.90
Glycine	1.74
Alanine	1.74
Cystine	0.557
Valine	1.98
Methionine	0.559
Isoleucine	1.88
Leucine	3.03
Tyrosine	1.38
Phenylalanine	1.99
Lysine	2.57
Histidine	1.05
Arginine	3.03
Tryptophan	0.481

\*Lectin (H.U./mg) 0.889

\*\*Trypsin Inhibitor (TIU/mg) 33.4

\*H.U. - Hemagglutinating Unit

\*\*TIU - Trypsin Inhibitor Unit

Raffinose (%) 0.372

Stachyose (%) 2.42

**Isoflavones (ppm)**

Daidzein	< LOQ
Glycitein	< LOQ
Genistein	< LOQ
Daidzin	1140
Glycitin	203
Genistin	1500
Total Aglycone Equivalents	1760

LOQ-Limit of Quantitation

**Table 12**  
**Compositional Analyses of**  
**Soy Seed - Dry Weight**  
**Regimen F**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-43
<b>Location</b>	Mediapolis
<b>Regimen</b>	F
<b>Description</b>	3000-0
<b>BTID No.</b>	1756L
<b>Covance LIMS Number</b>	90100078

**Fatty Acids (%)**

8:0 Caprylic	< LOQ
10:0 Capric	< LOQ
12:0 Lauric	< LOQ
14:0 Myristic	< LOQ
14:1 Myristoleic	< LOQ
15:0 Pentadecanoic	< LOQ
15:1 Pentadecenoic	< LOQ
16:0 Palmitic	2.05
16:1 Palmitoleic	< LOQ
17:0 Heptadecanoic	< LOQ
17:1 Heptadecenoic	< LOQ
18:0 Stearic	0.762
18:1 Oleic	4.33
18:2 Linoleic	9.70
18:3 Gamma Linolenic	< LOQ
18:3 Linolenic	1.58
18:4 Octadecatetraenoic	< LOQ
20:0 Arachidic	0.0592
20:1 Eicosenoic	0.0331
20:2 Eicosadienoic	< LOQ
20:4 Arachidonic	< LOQ
20:3 Eicosatrienoic	< LOQ
20:5 Eicosapentaenoic	< LOQ
22:0 Behenic	0.0616
22:1 Erucic	< LOQ
22:5 Docosapentaenoic	< LOQ
24:0 Lignoceric	< LOQ
22:6 Docosahexaenoic	< LOQ

Folic Acid (ppm)	4.16
Vitamin B1/Thiamine HCl (ppm)	2.7
Vitamin B2/Riboflavin (ppm)	4.21
Vitamin K (ppm)	0.239
Vitamin A/Beta Carotene (ppm)	< LOQ

LOQ-Limit of Quantitation



**Table 13**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-01-11</b>	<b>HT08SOY002-01-12</b>	<b>HT08SOY002-01-13</b>
<b>Location</b>	Marcus	Marcus	Marcus
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1747A	1747B	1747C
<b>Covance LIMS Number</b>	90100072	90100094	90100028
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	10.0	9.91	10.0
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.07	4.11	4.21
18:1 Oleic	21.4	21.6	21.5
18:2 Linoleic	55.4	55.2	55.0
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	8.37	8.40	8.55
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.292	0.277	0.305
20:1 Eicosenoic	0.148	0.147	0.148
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.302	0.314	0.317
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 13**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-02-11</b>	<b>HT08SOY002-02-12</b>	<b>HT08SOY002-02-13</b>
<b>Location</b>	Iowa Falls	Iowa Falls	Iowa Falls
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1748A	1748B	1748C
<b>Covance LIMS Number</b>	90100034	90100036	90300041
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	10.9	10.0	10.3
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.16	4.23	4.21
18:1 Oleic	25.0	22.1	20.1
18:2 Linoleic	51.7	54.0	55.9
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	7.37	8.84	8.76
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.325	0.313	0.314
20:1 Eicosenoic	0.194	0.147	0.142
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.340	0.325	0.312
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 13**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-03-11</b>	<b>HT08SOY002-03-12</b>	<b>HT08SOY002-03-13</b>
<b>Location</b>	Glidden	Glidden	Glidden
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1749A	1749B	1749C
<b>Covance LIMS Number</b>	90100037	90100096	90100116
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	10.0	9.93	9.89
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.18	4.20	4.14
18:1 Oleic	21.7	21.9	21.9
18:2 Linoleic	54.4	54.1	54.2
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	8.98	9.09	9.14
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.306	0.289	0.305
20:1 Eicosenoic	0.151	0.151	0.154
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.318	0.319	0.318
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 13**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-04-11</b>	<b>HT08SOY002-04-12</b>	<b>HT08SOY002-04-13</b>
<b>Location</b>	Perry	Perry	Perry
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1750A	1750B	1750C
<b>Covance LIMS Number</b>	90100065	90100126	90100061
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	10.0	9.94	9.75
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.44	4.47	4.34
18:1 Oleic	21.2	21.7	21.4
18:2 Linoleic	55.0	54.6	55.0
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	8.60	8.53	8.58
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.317	0.322	0.306
20:1 Eicosenoic	0.151	0.157	0.153
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.311	0.315	0.311
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	0.112
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 13**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-05-11</b>	<b>HT08SOY002-05-12</b>	<b>HT08SOY002-05-13</b>
<b>Location</b>	Adel	Adel	Adel
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1751A	1751B	1751C
<b>Covance LIMS Number</b>	90100035	90100077	90100097
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	9.99	9.91	9.86
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.30	4.39	4.34
18:1 Oleic	21.9	21.8	22.2
18:2 Linoleic	55.0	55.1	54.9
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	7.98	7.87	7.89
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.313	0.320	0.295
20:1 Eicosenoic	0.160	0.163	0.163
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.317	0.322	0.319
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	0.138	< LOQ
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 13**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-06-11</b>	<b>HT08SOY002-06-12</b>	<b>HT08SOY002-06-13</b>
<b>Location</b>	Winterset	Winterset	Winterset
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1752A	1752B	1752C
<b>Covance LIMS Number</b>	90100041	90100074	90100081
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	10.2	10.1	10.0
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	0.120
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.24	4.24	4.22
18:1 Oleic	20.2	21.0	21.0
18:2 Linoleic	55.7	54.8	55.0
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	8.68	8.87	8.86
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.316	0.313	0.311
20:1 Eicosenoic	0.159	0.156	0.155
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.330	0.324	0.316
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.133	0.129	< LOQ
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 13**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-07-11</b>	<b>HT08SOY002-07-12</b>	<b>HT08SOY002-07-13</b>
<b>Location</b>	Osborn	Osborn	Osborn
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1753A	1753B	1753C
<b>Covance LIMS Number</b>	90100080	90100086	90100062
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	10.2	10.1	10.3
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	0.110	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.34	4.29	4.28
18:1 Oleic	21.9	22.0	21.5
18:2 Linoleic	54.5	54.6	55.0
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	8.03	8.21	8.12
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.321	0.319	0.315
20:1 Eicosenoic	0.169	0.166	0.163
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.327	0.327	0.319
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.114	< LOQ	< LOQ
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 13**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-08-11</b>	<b>HT08SOY002-08-12</b>	<b>HT08SOY002-08-13</b>
<b>Location</b>	Fithian	Fithian	Fithian
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1754A	1754B	1754C
<b>Covance LIMS Number</b>	90100064	90100029	90100030
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	10.3	10.3	10.2
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	0.113	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.21	4.13	4.17
18:1 Oleic	22.6	22.1	22.5
18:2 Linoleic	54.5	54.7	54.6
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	7.62	7.84	7.76
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.310	0.304	0.308
20:1 Eicosenoic	0.168	0.168	0.165
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.307	0.308	0.311
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation



**Table 13**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen A**

<b>Bayer Sample Number ID</b>	HT08SOY002-09-11	HT08SOY002-09-12	HT08SOY002-09-13
<b>Location</b>	Sharpsville	Sharpsville	Sharpsville
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1755A	1755B	1755C
<b>Covance LIMS Number</b>	90100046	90100101	90100044

**Fatty Acids (% relative)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	9.83	9.91	9.86
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.70	4.63	4.66
18:1 Oleic	23.9	23.8	24.0
18:2 Linoleic	52.9	53.0	52.9
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	7.68	7.71	7.55
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.357	0.330	0.348
20:1 Eicosenoic	0.181	0.171	0.175
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.339	0.332	0.328
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.162	0.138	0.144
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 13**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen A**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-10-11</b>	<b>HT08SOY002-10-12</b>	<b>HT08SOY002-10-13</b>
<b>Location</b>	Mediapolis	Mediapolis	Mediapolis
<b>Regimen</b>	A	A	A
<b>Description</b>	Jack	Jack	Jack
<b>BTID No.</b>	1756A	1756B	1756C
<b>Covance LIMS Number</b>	90100130	90100073	90100138
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	10.0	10.0	10.1
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.13	4.13	4.17
18:1 Oleic	21.6	22.0	21.7
18:2 Linoleic	55.2	54.8	55.0
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	8.16	8.07	8.13
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.307	0.307	0.306
20:1 Eicosenoic	0.167	0.163	0.168
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.317	0.314	0.317
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.135	0.157	0.136
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 14**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen B**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-01-21</b>	<b>HT08SOY002-01-22</b>	<b>HT08SOY002-01-23</b>
<b>Location</b>	Marcus	Marcus	Marcus
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1747D	1747E	1747F
<b>Covance LIMS Number</b>	90100066	90100095	90100131
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	9.42	9.22	9.30
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.32	4.41	4.40
18:1 Oleic	24.1	23.8	24.0
18:2 Linoleic	53.7	53.7	53.4
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	7.69	8.09	8.10
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.306	0.295	0.316
20:1 Eicosenoic	0.150	0.152	0.158
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.322	0.327	0.329
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 14**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen B**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-02-21</b>	<b>HT08SOY002-02-22</b>	<b>HT08SOY002-02-23</b>
<b>Location</b>	Iowa Falls	Iowa Falls	Iowa Falls
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1748D	1748E	1748F
<b>Covance LIMS Number</b>	90100023	90100033	90100022
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	9.25	9.13	9.11
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.50	4.56	4.50
18:1 Oleic	25.2	25.8	26.2
18:2 Linoleic	51.8	51.3	51.0
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	8.46	8.37	8.36
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.324	0.332	0.331
20:1 Eicosenoic	0.153	0.153	0.156
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.336	0.351	0.349
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 14**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-03-21	HT08SOY002-03-22	HT08SOY002-03-23
<b>Location</b>	Glidden	Glidden	Glidden
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1749D	1749E	1749F
<b>Covance LIMS Number</b>	90100135	90100069	90100049
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	9.24	9.31	9.08
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.50	4.58	4.49
18:1 Oleic	24.9	24.9	24.9
18:2 Linoleic	51.9	52.0	52.0
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	8.60	8.23	8.65
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.321	0.324	0.323
20:1 Eicosenoic	0.154	0.151	0.156
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.342	0.332	0.336
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	0.123	0.135
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 14**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen B**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-04-21</b>	<b>HT08SOY002-04-22</b>	<b>HT08SOY002-04-23</b>
<b>Location</b>	Perry	Perry	Perry
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1750D	1750E	1750F
<b>Covance LIMS Number</b>	90100091	90100111	90100092
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	9.31	9.24	9.16
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.53	4.72	4.75
18:1 Oleic	23.5	24.4	24.4
18:2 Linoleic	53.5	52.6	52.6
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	8.32	8.21	8.15
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.315	0.336	0.332
20:1 Eicosenoic	0.159	0.161	0.162
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.318	0.332	0.322
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	0.122
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 14**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-05-21	HT08SOY002-05-22	HT08SOY002-05-23
<b>Location</b>	Adel	Adel	Adel
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1751D	1751E	1751F
<b>Covance LIMS Number</b>	90100102	90100119	90100025
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	9.37	9.30	9.24
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.71	4.49	4.63
18:1 Oleic	23.9	24.3	25.2
18:2 Linoleic	53.5	53.1	52.5
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	7.69	7.95	7.62
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.340	0.318	0.329
20:1 Eicosenoic	0.164	0.161	0.161
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.344	0.324	0.329
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 14**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-06-21	HT08SOY002-06-22	HT08SOY002-06-23
<b>Location</b>	Winterset	Winterset	Winterset
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1752D	1752E	1752F
<b>Covance LIMS Number</b>	90100139	90100118	90100141
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	9.56	9.52	9.57
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.36	4.44	4.44
18:1 Oleic	23.2	23.3	23.5
18:2 Linoleic	53.4	53.5	53.2
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	8.64	8.44	8.51
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.315	0.321	0.323
20:1 Eicosenoic	0.160	0.163	0.162
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.339	0.339	0.340
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation



**Table 14**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen B**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-07-21</b>	<b>HT08SOY002-07-22</b>	<b>HT08SOY002-07-23</b>
<b>Location</b>	Osborn	Osborn	Osborn
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1753D	1753E	1753F
<b>Covance LIMS Number</b>	90100059	90100137	90100031
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	9.54	9.58	9.57
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	0.109	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.48	4.44	4.58
18:1 Oleic	23.6	24.2	24.6
18:2 Linoleic	53.6	53.1	52.5
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	7.72	7.71	7.75
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.318	0.320	0.331
20:1 Eicosenoic	0.169	0.172	0.169
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.322	0.323	0.326
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.139	0.135	0.127
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 14**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen B**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-08-21</b>	<b>HT08SOY002-08-22</b>	<b>HT08SOY002-08-23</b>
<b>Location</b>	Fithian	Fithian	Fithian
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1754D	1754E	1754F
<b>Covance LIMS Number</b>	90100040	90100082	90100136
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	9.48	9.50	9.54
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.30	4.23	4.26
18:1 Oleic	24.8	24.2	24.5
18:2 Linoleic	53.2	53.6	53.3
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	7.37	7.53	7.48
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.305	0.301	0.302
20:1 Eicosenoic	0.166	0.175	0.172
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.308	0.310	0.317
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.121	0.119	0.138
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 14**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen B**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-09-21</b>	<b>HT08SOY002-09-22</b>	<b>HT08SOY002-09-23</b>
<b>Location</b>	Sharpsville	Sharpsville	Sharpsville
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1755D	1755E	1755F
<b>Covance LIMS Number</b>	90100057	90100089	90100127

<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	9.11	9.02	9.21
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.90	4.84	5.05
18:1 Oleic	26.6	27.2	26.5
18:2 Linoleic	51.0	50.6	50.9
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	7.31	7.27	7.24
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.358	0.358	0.372
20:1 Eicosenoic	0.180	0.180	0.190
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.345	0.339	0.350
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.149	0.167	0.165
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 14**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen B**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-21	HT08SOY002-10-22	HT08SOY002-10-23
<b>Location</b>	Mediapolis	Mediapolis	Mediapolis
<b>Regimen</b>	B	B	B
<b>Description</b>	FG72 unsprayed	FG72 unsprayed	FG72 unsprayed
<b>BTID No.</b>	1756D	1756E	1756F
<b>Covance LIMS Number</b>	90100107	90100122	90100038

**Fatty Acids (% relative)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	9.50	9.54	9.29
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.36	4.46	4.33
18:1 Oleic	24.4	24.7	24.7
18:2 Linoleic	53.1	52.8	53.2
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	7.68	7.58	7.54
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.318	0.324	0.312
20:1 Eicosenoic	0.177	0.179	0.173
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.319	0.323	0.317
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.130	0.144	0.149
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 15**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen C**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-01-31</b>	<b>HT08SOY002-01-32</b>	<b>HT08SOY002-01-33</b>
<b>Location</b>	Marcus	Marcus	Marcus
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1747G	1747H	1747I
<b>Covance LIMS Number</b>	90100051	90100043	90100105
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	9.32	9.35	9.40
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.44	4.45	4.52
18:1 Oleic	23.1	22.9	22.8
18:2 Linoleic	54.1	54.3	54.1
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	8.14	8.22	8.31
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.315	0.314	0.324
20:1 Eicosenoic	0.153	0.151	0.153
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.326	0.332	0.343
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.144	< LOQ	< LOQ
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 15**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-02-31	HT08SOY002-02-32	HT08SOY002-02-33
<b>Location</b>	Iowa Falls	Iowa Falls	Iowa Falls
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 Sprayed	FG72 sprayed
<b>BTID No.</b>	1748G	1748H	1748I
<b>Covance LIMS Number</b>	90100087	90300042	90100056

**Fatty Acids (% relative)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	9.28	10.4	9.03
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	0.106	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.48	3.80	4.62
18:1 Oleic	23.4	22.4	24.7
18:2 Linoleic	53.2	54.7	52.1
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	8.82	7.72	8.70
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.318	0.274	0.334
20:1 Eicosenoic	0.149	0.158	0.152
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.329	0.257	0.362
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	0.128	< LOQ
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 15**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-03-31	HT08SOY002-03-32	HT08SOY002-03-33
<b>Location</b>	Glidden	Glidden	Glidden
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1749G	1749H	1749I
<b>Covance LIMS Number</b>	90100024	90100050	90100084

**Fatty Acids (% relative)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	9.18	9.19	9.26
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.54	4.48	4.49
18:1 Oleic	24.2	24.1	24.6
18:2 Linoleic	52.7	52.5	52.1
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	8.58	8.77	8.71
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.323	0.321	0.325
20:1 Eicosenoic	0.154	0.156	0.157
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.330	0.331	0.336
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	0.135	< LOQ
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 15**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen C**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-04-31</b>	<b>HT08SOY002-04-32</b>	<b>HT08SOY002-04-33</b>
<b>Location</b>	Perry	Perry	Perry
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1750G	1750H	1750I
<b>Covance LIMS Number</b>	90100114	90100109	90100103
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	9.27	9.37	9.44
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.77	4.66	4.71
18:1 Oleic	23.7	23.7	23.3
18:2 Linoleic	53.1	53.2	53.5
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	8.19	8.19	8.15
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.331	0.333	0.335
20:1 Eicosenoic	0.161	0.169	0.168
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.318	0.327	0.334
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.121	< LOQ	< LOQ
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation



**Table 15**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-05-31	HT08SOY002-05-32	HT08SOY002-05-33
<b>Location</b>	Adel	Adel	Adel
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1751G	1751H	1751I
<b>Covance LIMS Number</b>	90100093	90100121	90100054
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	9.33	9.37	9.22
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.52	4.65	4.48
18:1 Oleic	24.2	24.4	24.4
18:2 Linoleic	53.0	53.0	53.1
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	7.99	7.84	7.88
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.322	0.324	0.314
20:1 Eicosenoic	0.161	0.163	0.158
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.321	0.324	0.319
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.152	< LOQ	0.117
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 15**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-06-31	HT08SOY002-06-32	HT08SOY002-06-33
<b>Location</b>	Winterset	Winterset	Winterset
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1752G	1752H	1752I
<b>Covance LIMS Number</b>	90100133	90100112	90100058

**Fatty Acids (% relative)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	9.55	9.39	9.39
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.41	4.40	4.33
18:1 Oleic	23.3	24.5	24.0
18:2 Linoleic	53.5	52.5	52.9
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	8.44	8.48	8.57
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.322	0.318	0.316
20:1 Eicosenoic	0.165	0.162	0.162
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.339	0.331	0.327
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 15**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen C**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-31	HT08SOY002-07-32	HT08SOY002-07-33
<b>Location</b>	Osborn	Osborn	Osborn
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1753G	1753H	1753I
<b>Covance LIMS Number</b>	90100055	90100067	90100132
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	9.57	9.55	9.51
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	0.111	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.48	4.32	4.42
18:1 Oleic	23.5	23.9	24.5
18:2 Linoleic	53.7	53.6	52.8
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	7.64	7.78	7.82
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.319	0.310	0.322
20:1 Eicosenoic	0.169	0.171	0.171
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.319	0.309	0.324
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.128	0.135	0.136
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 15**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen C**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-08-31</b>	<b>HT08SOY002-08-32</b>	<b>HT08SOY002-08-33</b>
<b>Location</b>	Fithian	Fithian	Fithian
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1754G	1754H	1754I
<b>Covance LIMS Number</b>	90100117	90100110	90100032
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	9.54	9.44	9.49
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.41	4.42	4.25
18:1 Oleic	24.4	24.8	24.0
18:2 Linoleic	53.4	53.2	53.8
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	7.41	7.35	7.56
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.315	0.317	0.305
20:1 Eicosenoic	0.178	0.173	0.173
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.321	0.320	0.312
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	0.117
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 15**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen C**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-09-31</b>	<b>HT08SOY002-09-32</b>	<b>HT08SOY002-09-33</b>
<b>Location</b>	Sharpsville	Sharpsville	Sharpsville
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1755G	1755H	1755I
<b>Covance LIMS Number</b>	90100120	90100125	90100113
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	9.22	9.14	9.22
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.90	5.08	4.96
18:1 Oleic	25.9	26.3	26.0
18:2 Linoleic	51.6	51.2	51.5
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	7.29	7.22	7.29
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.361	0.381	0.364
20:1 Eicosenoic	0.191	0.194	0.185
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.343	0.351	0.344
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.171	0.166	0.159
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 15**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen C**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-10-31</b>	<b>HT08SOY002-10-32</b>	<b>HT08SOY002-10-33</b>
<b>Location</b>	Mediapolis	Mediapolis	Mediapolis
<b>Regimen</b>	C	C	C
<b>Description</b>	FG72 sprayed	FG72 sprayed	FG72 sprayed
<b>BTID No.</b>	1756G	1756H	1756I
<b>Covance LIMS Number</b>	90100045	90100128	90100047
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	9.41	9.36	9.35
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.46	4.39	4.37
18:1 Oleic	24.4	23.7	24.6
18:2 Linoleic	53.2	53.8	53.0
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	7.60	7.74	7.75
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.323	0.319	0.318
20:1 Eicosenoic	0.175	0.183	0.173
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.323	0.318	0.326
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.165	0.141	0.159
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 16**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen D**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-01-41</b>	<b>HT08SOY002-02-41</b>	<b>HT08SOY002-03-41</b>
<b>Location</b>	Marcus	Iowa Falls	Glidden
<b>Regimen</b>	D	D	D
<b>Description</b>	2686-6	2686-6	2686-6
<b>BTID No.</b>	1747J	1748J	1749J
<b>Covance LIMS Number</b>	90100053	90100124	90100068
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	10.2	10.4	10.3
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	0.112	< LOQ	0.116
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	3.49	3.67	3.87
18:1 Oleic	22.4	21.7	21.7
18:2 Linoleic	54.2	54.8	54.6
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	8.81	8.75	8.65
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.252	0.257	0.276
20:1 Eicosenoic	0.145	0.151	0.154
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.266	0.258	0.273
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.143	< LOQ	< LOQ
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 16**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen D**

<b>Bayer Sample Number ID</b>	HT08SOY002-04-41	HT08SOY002-05-41	HT08SOY002-06-41
<b>Location</b>	Perry	Adel	Winterset
<b>Regimen</b>	D	D	D
<b>Description</b>	2686-6	2686-6	2686-6
<b>BTID No.</b>	1750J	1751J	1752J
<b>Covance LIMS Number</b>	90100083	90100106	90100071

**Fatty Acids (% relative)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	10.4	10.5	10.7
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	3.81	3.80	3.62
18:1 Oleic	21.8	21.9	21.1
18:2 Linoleic	54.9	54.9	54.6
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	8.42	8.22	9.34
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.265	0.274	0.265
20:1 Eicosenoic	0.153	0.164	0.145
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.260	0.273	0.271
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation



**Table 16**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen D**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-07-41</b>	<b>HT08SOY002-08-41</b>	<b>HT08SOY002-09-41</b>
<b>Location</b>	Osborn	Fithian	Sharpsville
<b>Regimen</b>	D	D	D
<b>Description</b>	2686-6	2686-6	2686-6
<b>BTID No.</b>	1753J	1754J	1755J
<b>Covance LIMS Number</b>	90100099	90100085	90100075

**Fatty Acids (% relative)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	10.4	10.5	10.1
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	0.112	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	3.99	3.57	4.26
18:1 Oleic	23.2	21.6	24.1
18:2 Linoleic	53.7	55.4	53.0
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	7.85	8.11	7.59
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.267	0.252	0.307
20:1 Eicosenoic	0.167	0.161	0.177
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.283	0.254	0.286
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.140	< LOQ	0.145
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 16**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen D**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-41
<b>Location</b>	Mediapolis
<b>Regimen</b>	D
<b>Description</b>	2686-6
<b>BTID No.</b>	1756J
<b>Covance LIMS Number</b>	90100042

**Fatty Acids (% relative)**

8:0 Caprylic	< LOQ
10:0 Capric	< LOQ
12:0 Lauric	< LOQ
14:0 Myristic	< LOQ
14:1 Myristoleic	< LOQ
15:0 Pentadecanoic	< LOQ
15:1 Pentadecenoic	< LOQ
16:0 Palmitic	10.4
16:1 Palmitoleic	< LOQ
17:0 Heptadecanoic	< LOQ
17:1 Heptadecenoic	< LOQ
18:0 Stearic	3.80
18:1 Oleic	22.6
18:2 Linoleic	54.7
18:3 Gamma Linolenic	< LOQ
18:3 Linolenic	7.67
18:4 Octadecatetraenoic	< LOQ
20:0 Arachidic	0.269
20:1 Eicosenoic	0.168
20:2 Eicosadienoic	< LOQ
20:4 Arachidonic	< LOQ
20:3 Eicosatrienoic	< LOQ
20:5 Eicosapentaenoic	< LOQ
22:0 Behenic	0.271
22:1 Erucic	< LOQ
22:5 Docosapentaenoic	< LOQ
24:0 Lignoceric	0.135
22:6 Docosahexaenoic	< LOQ

LOQ-Limit of Quantitation

**Table 17**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen E**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-01-42</b>	<b>HT08SOY002-02-42</b>	<b>HT08SOY002-03-42</b>
<b>Location</b>	Marcus	Iowa Falls	Glidden
<b>Regimen</b>	E	E	E
<b>Description</b>	2788	2788	2788
<b>BTID No.</b>	1747K	1748K	1749K
<b>Covance LIMS Number</b>	90100088	90100048	90100079
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	9.82	9.90	9.86
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	0.118	< LOQ	0.115
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.23	4.19	4.38
18:1 Oleic	21.9	21.8	21.5
18:2 Linoleic	53.6	53.6	53.7
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	9.51	9.80	9.62
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.303	0.303	0.312
20:1 Eicosenoic	0.145	0.152	0.156
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.308	0.312	0.315
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 17**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen E**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-04-42</b>	<b>HT08SOY002-05-42</b>	<b>HT08SOY002-06-42</b>
<b>Location</b>	Perry	Adel	Winterset
<b>Regimen</b>	E	E	E
<b>Description</b>	2788	2788	2788
<b>BTID No.</b>	1750K	1751K	1752K
<b>Covance LIMS Number</b>	90100076	90100039	90100098
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	9.80	9.96	10.1
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.52	4.57	4.30
18:1 Oleic	22.7	22.9	21.2
18:2 Linoleic	53.1	53.2	53.8
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	9.03	8.54	9.74
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.317	0.326	0.298
20:1 Eicosenoic	0.154	0.156	0.150
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.306	0.326	0.322
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.133	< LOQ	0.123
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 17**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen E**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-42	HT08SOY002-08-42	HT08SOY002-09-42
<b>Location</b>	Osborn	Fithian	Sharpsville
<b>Regimen</b>	E	E	E
<b>Description</b>	2788	2788	2788
<b>BTID No.</b>	1753K	1754K	1755K
<b>Covance LIMS Number</b>	90100129	90100052	90100026

**Fatty Acids (% relative)**

8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	10.0	9.89	9.86
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	0.109	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.66	4.22	4.81
18:1 Oleic	24.1	22.4	23.6
18:2 Linoleic	51.8	54.1	52.5
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	8.39	8.43	8.42
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.344	0.303	0.353
20:1 Eicosenoic	0.169	0.162	0.167
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.332	0.298	0.332
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	0.126	0.137	< LOQ
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 17**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen E**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-42
<b>Location</b>	Mediapolis
<b>Regimen</b>	E
<b>Description</b>	2788
<b>BTID No.</b>	1756K
<b>Covance LIMS Number</b>	90100090

**Fatty Acids (% relative)**

8:0 Caprylic	< LOQ
10:0 Capric	< LOQ
12:0 Lauric	< LOQ
14:0 Myristic	< LOQ
14:1 Myristoleic	< LOQ
15:0 Pentadecanoic	< LOQ
15:1 Pentadecenoic	< LOQ
16:0 Palmitic	9.78
16:1 Palmitoleic	< LOQ
17:0 Heptadecanoic	< LOQ
17:1 Heptadecenoic	< LOQ
18:0 Stearic	4.41
18:1 Oleic	23.2
18:2 Linoleic	53.5
18:3 Gamma Linolenic	< LOQ
18:3 Linolenic	8.25
18:4 Octadecatetraenoic	< LOQ
20:0 Arachidic	0.324
20:1 Eicosenoic	0.173
20:2 Eicosadienoic	< LOQ
20:4 Arachidonic	< LOQ
20:3 Eicosatrienoic	< LOQ
20:5 Eicosapentaenoic	< LOQ
22:0 Behenic	0.308
22:1 Erucic	< LOQ
22:5 Docosapentaenoic	< LOQ
24:0 Lignoceric	0.119
22:6 Docosahexaenoic	< LOQ

LOQ-Limit of Quantitation

**Table 18**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen F**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-01-43</b>	<b>HT08SOY002-02-43</b>	<b>HT08SOY002-03-43</b>
<b>Location</b>	Marcus	Iowa Falls	Glidden
<b>Regimen</b>	F	F	F
<b>Description</b>	3000-0	3000-0	3000-0
<b>BTID No.</b>	1747L	1748L	1749L
<b>Covance LIMS Number</b>	90100100	90100123	90100108
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	10.9	11.2	11.1
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.01	4.04	4.08
18:1 Oleic	22.3	21.3	21.3
18:2 Linoleic	52.9	52.7	52.5
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	9.12	10.2	10.3
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.281	0.304	0.310
20:1 Eicosenoic	0.155	< LOQ	0.157
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.329	0.323	0.329
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 18**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen F**

<b>Bayer Sample Number ID</b>	<b>HT08SOY002-04-43</b>	<b>HT08SOY002-05-43</b>	<b>HT08SOY002-06-43</b>
<b>Location</b>	Perry	Adel	Winterset
<b>Regimen</b>	F	F	F
<b>Description</b>	3000-0	3000-0	3000-0
<b>BTID No.</b>	1750L	1751L	1752L
<b>Covance LIMS Number</b>	90100115	90100104	90100063
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	11.0	11.1	11.3
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.45	4.17	3.96
18:1 Oleic	23.1	22.7	21.9
18:2 Linoleic	51.5	52.4	52.5
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	9.11	8.81	9.58
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.337	0.324	0.300
20:1 Eicosenoic	0.168	0.171	0.162
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.337	0.337	0.321
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosaheptaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation



**Table 18**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen F**

<b>Bayer Sample Number ID</b>	HT08SOY002-07-43	HT08SOY002-08-43	HT08SOY002-09-43
<b>Location</b>	Osborn	Fithian	Sharpsville
<b>Regimen</b>	F	F	F
<b>Description</b>	3000-0	3000-0	3000-0
<b>BTID No.</b>	1753L	1754L	1755L
<b>Covance LIMS Number</b>	90100134	90100027	90100070
<b>Fatty Acids (% relative)</b>			
8:0 Caprylic	< LOQ	< LOQ	< LOQ
10:0 Capric	< LOQ	< LOQ	< LOQ
12:0 Lauric	< LOQ	< LOQ	< LOQ
14:0 Myristic	< LOQ	< LOQ	< LOQ
14:1 Myristoleic	< LOQ	< LOQ	< LOQ
15:0 Pentadecanoic	< LOQ	< LOQ	< LOQ
15:1 Pentadecenoic	< LOQ	< LOQ	< LOQ
16:0 Palmitic	11.4	11.0	11.0
16:1 Palmitoleic	< LOQ	< LOQ	< LOQ
17:0 Heptadecanoic	< LOQ	< LOQ	< LOQ
17:1 Heptadecenoic	< LOQ	< LOQ	< LOQ
18:0 Stearic	4.25	4.10	4.57
18:1 Oleic	23.0	22.9	23.5
18:2 Linoleic	52.0	52.9	51.7
18:3 Gamma Linolenic	< LOQ	< LOQ	< LOQ
18:3 Linolenic	8.55	8.34	8.38
18:4 Octadecatetraenoic	< LOQ	< LOQ	< LOQ
20:0 Arachidic	0.326	0.305	0.349
20:1 Eicosenoic	0.176	0.165	0.174
20:2 Eicosadienoic	< LOQ	< LOQ	< LOQ
20:4 Arachidonic	< LOQ	< LOQ	< LOQ
20:3 Eicosatrienoic	< LOQ	< LOQ	< LOQ
20:5 Eicosapentaenoic	< LOQ	< LOQ	< LOQ
22:0 Behenic	0.338	0.309	0.352
22:1 Erucic	< LOQ	< LOQ	< LOQ
22:5 Docosapentaenoic	< LOQ	< LOQ	< LOQ
24:0 Lignoceric	< LOQ	< LOQ	< LOQ
22:6 Docosahexaenoic	< LOQ	< LOQ	< LOQ

LOQ-Limit of Quantitation

**Table 18**  
**% of Total Fatty Acids**  
**Soy Seed**  
**Regimen F**

<b>Bayer Sample Number ID</b>	HT08SOY002-10-43
<b>Location</b>	Mediapolis
<b>Regimen</b>	F
<b>Description</b>	3000-0
<b>BTID No.</b>	1756L
<b>Covance LIMS Number</b>	90100078

**Fatty Acids (% relative)**

8:0 Caprylic	< LOQ
10:0 Capric	< LOQ
12:0 Lauric	< LOQ
14:0 Myristic	< LOQ
14:1 Myristoleic	< LOQ
15:0 Pentadecanoic	< LOQ
15:1 Pentadecenoic	< LOQ
16:0 Palmitic	11.0
16:1 Palmitoleic	< LOQ
17:0 Heptadecanoic	< LOQ
17:1 Heptadecenoic	< LOQ
18:0 Stearic	4.10
18:1 Oleic	23.3
18:2 Linoleic	52.2
18:3 Gamma Linolenic	< LOQ
18:3 Linolenic	8.51
18:4 Octadecatetraenoic	< LOQ
20:0 Arachidic	0.319
20:1 Eicosenoic	0.178
20:2 Eicosadienoic	< LOQ
20:4 Arachidonic	< LOQ
20:3 Eicosatrienoic	< LOQ
20:5 Eicosapentaenoic	< LOQ
22:0 Behenic	0.332
22:1 Erucic	< LOQ
22:5 Docosapentaenoic	< LOQ
24:0 Lignoceric	< LOQ
22:6 Docosahexaenoic	< LOQ

LOQ-Limit of Quantitation

**APPENDIX A  
ANALYTICAL METHOD SUMMARIES AND REFERENCE STANDARDS**

**Acid Detergent Fiber (ADF)**

The sample was washed with acetone to remove fats and pigments. It was then placed in a filter bag and positioned in an Ankom analyzer where it was washed with an acidic boiling detergent solution that dissolved the protein, carbohydrate, and ash. The lignocellulose fraction remaining was determined gravimetrically. The limit of quantitation for this study was 0.100%. The limit of quantitation was calculated and reported on a fresh weight basis.

**Reference:**

*Forage and Fiber Analyses*, Agriculture Handbook No.379, United States Department of Agriculture, Washington, D.C. (1970).

**Amino Acid Composition (TAA5)**

Total aspartic acid (including asparagine)

Total threonine

Total serine

Total glutamic acid (including glutamine)

Total proline

Total glycine

Total alanine

Total valine

Total isoleucine

Total leucine

Total tyrosine

Total phenylalanine

Total histidine

Total lysine

Total arginine

Total tryptophan

Sulfur-containing amino acids:

Total methionine

Total cystine (including cysteine)

The sample was assayed by three methods to obtain the full profile. Tryptophan required a base hydrolysis with sodium hydroxide. The sulfur-containing amino acids required an oxidation with performic acid prior to hydrolysis with hydrochloric acid. Analysis of the samples for the remaining amino acids was accomplished through direct acid hydrolysis with hydrochloric acid. Once hydrolyzed, the individual amino acids were then quantitated using an automated amino acid analyzer. The limit of quantitation was calculated and reported on a fresh weight basis. The limit of quantitation for this study was 0.0100 %.

**Reference Standards:**

Thermo Scientific K18, 2.5  $\mu\text{mol/mL}$  per constituent except cystine (1.25  $\mu\text{mol/mL}$ ),  
Lot Number JG124726

Sigma, L-Tryptophan, 100%, Lot Number 076K0075  
Sigma/BioChemika, L-Cysteic Acid Monohydrate, 99.5% (used as 100%), Lot Number 1305674  
Sigma, L-Methionine Sulfone, 100%, Lot Number 047K1321

**Reference:**

*Official Methods of Analysis of AOAC INTERNATIONAL*, 18<sup>th</sup> Ed., Method 982.30, AOAC INTERNATIONAL: Gaithersburg, Maryland, (2005).

**Ash (ASHM)**

The sample was placed in an electric furnace at 550°C and ignited to drive off all volatile organic matter. The nonvolatile matter remaining was quantitated gravimetrically and calculated to determine percent ash. The limit of quantitation for this study was 0.100%. The limit of quantitation was calculated and reported on a fresh weight basis.

**Reference:**

*Official Methods of Analysis of AOAC INTERNATIONAL*, 18<sup>th</sup> Ed., Method 923.03, AOAC INTERNATIONAL: Gaithersburg, Maryland, (2005).

**Beta Carotene (BCLC)**

The sample was saponified and extracted with hexane. The sample was then injected on a reverse phase high-performance liquid chromatography system with ultraviolet light detection. Quantitation was achieved with a linear regression analysis. The limit of quantitation for Beta Carotene was approximately 0.200 mg/kg. The limit of quantitation was calculated and reported on a fresh weight basis.

**Reference Standard:**

Sigma-Aldrich, Beta Carotene, Type I, 100% stated on Certificate of Analysis (95.57%, 95.31%, 96.24%, and 96.32% determined spectrophotometrically), Lot Number 068K2561

**References:**

*Official Methods of Analysis of AOAC INTERNATIONAL*, 18<sup>th</sup> Ed., Method 941.15, AOAC INTERNATIONAL: Gaithersburg, Maryland, (2005).

Quackenbush, F. W., *Journal of Liquid Chromatography*, 10: 643-653, (1987).

**Carbohydrate (CHO)**

The total carbohydrate level was calculated by difference using the fresh weight-derived data and the following equation:

$$\% \text{ carbohydrates} = 100 \% - (\% \text{ protein} + \% \text{ fat} + \% \text{ moisture} + \% \text{ ash})$$

The limit of quantitation for this study was 0.100%. The limit of quantitation was calculated and reported on a fresh weight basis.

Reference:

United States Department of Agriculture, "Energy Value of Foods", *Agriculture Handbook No. 74*, pp. 2-11, (1973).

**Fatty Acids as Triglycerides (FALC)**

The lipid was extracted, saponified with 0.5N methanolic sodium hydroxide, and methylated with 14% boron trifluoride in methanol. The resulting methyl esters of the fatty acids were extracted with heptane containing an internal standard. The methyl esters of the fatty acids were analyzed by gas chromatography using external standards for quantitation. The limit of quantitation was 0.0200%. The limit of quantitation was calculated and reported on a fresh weight basis.

Reference Standards:

Nu Chek Prep GLC Reference Standard Hazelton No. 1, used as 100%,  
Lot Number AU18-S  
Nu Chek Prep GLC Reference Standard Hazelton No. 2, used as 100%,  
Lot Number M13-O  
Nu Chek Prep GLC Reference Standard Hazelton No. 3, used as 100%,  
Lot Number MA18-S  
Nu Chek Prep GLC Reference Standard Hazelton No. 4, used as 100%,  
Lot Number JA16-T  
Nu Chek Prep Methyl Gamma Linolenate, used as 100%, Lot Number U-63M-JY12-R  
Nu Chek Prep Methyl Tridecanoate, used as 100%, Lot Number N-13M-JA16-T  
Nu Chek Prep Methyl Butyrate, used as 100%, Lot Number N-4M-07-S  
Nu Chek Prep Methyl Hexanoate, used as 100%, Lot Number N-6M-021-S  
Nu Chek Prep Methyl Erucate, used as 100%, Lot Number U-79M-AU3-Q  
Nu Chek Prep Methyl Lignocerate, used as 100%, Lot Number N-24M-MA17-S  
Nu Chek Prep Methyl Docosapentaenoate, used as 100%,  
Lot Number U-101M-JA16-T  
Nu Chek Prep Methyl Docosahexaenoate, used as 100%, Lot Number U-84M-JA7-T  
Nu Chek Prep Methyl Eicosapentaenoate, used as 100%, Lot Number U-99M-JA13-T  
Nu Chek Prep Methyl Nervonate, used as 100%, Lot Number U-88M-JA9-T  
Cayman Chemicals Stearidonic Acid Methyl Ester, used as 100%,  
Lot Number 0406454

References:

*Official Methods and Recommended Practices of the AOCS*, 5th Ed., Method Ce 1-62 and Ce 1b-89, American Oil Chemists' Society: Champaign, Illinois, (1997).

**Fat by Soxhlet Extraction (FSOX)**

The sample was weighed into a cellulose thimble containing sodium sulfate and dried to remove excess moisture. Pentane was dripped through the sample to remove the fat. The extract was then evaporated, dried, and weighed. The limit of quantitation for this study was 0.100%. The limit of quantitation was calculated and reported on a fresh weight basis.

**Reference:**

*Official Methods of Analysis of AOAC INTERNATIONAL*, 18<sup>th</sup> Ed., Method 960.39 and 948.22, AOAC INTERNATIONAL: Gaithersburg, Maryland, (2005)

**Folic acid (FOAN)**

The sample was hydrolyzed in a potassium phosphate buffer with the addition of ascorbic acid to protect the folic acid during autoclaving. Following hydrolysis by autoclaving, the sample was treated with a chicken-pancreas enzyme and incubated approximately 18 hours to liberate the bound folic acid. The amount of folic acid was determined by comparing the growth response of the sample, using the bacteria *Lactobacillus casei*, with the growth response of a folic acid standard. This response was measured turbidimetrically. The limit of quantitation for this study was 0.0600 ppm. The limit of quantitation was calculated and reported on a fresh weight basis.

**Reference Standard:**

USP, Folic acid, 98.9%, Lot Number Q0G151

**References:**

*Official Methods of Analysis of AOAC INTERNATIONAL*, 18<sup>th</sup> Ed., Methods 960.46 and 992.05, AOAC INTERNATIONAL, Gaithersburg, Maryland, (2005).

*Methods of Analysis for Infant Formulas*, Infant Formula Council, Atlanta, Georgia, Section C-2, (1985).

**ICP Emission Spectrometry (ICPS)**

The sample was dried, precharred, and ashed overnight in a muffle set to maintain 500°C. The ashed sample was re-ashed with nitric acid, treated with hydrochloric acid, taken to dryness, and put into a solution of 5% hydrochloric acid. The amount of each element was determined at appropriate wavelengths by comparing the emission of the unknown sample, measured on the inductively coupled plasma spectrometer, with the emission of the standard solutions.

**Inorganic Ventures Reference Standards and Limits of Quantitation:**

<b>Mineral</b>	<b>Lot Numbers</b>	<b>Concentration (µg/ml)</b>	<b>Limit of Quantitation (ppm)*</b>
Calcium	B2-MEB280039, B2-MEB266040	200, 1000	20.0
Copper	B2-MEB280039, B2-MEB280036	2, 10	0.50

Iron	B2-MEB280039, B2-MEB280035	10, 50	2.00
Magnesium	B2-MEB280039, B2-MEB280036	50, 250	20.0
Manganese	B2-MEB280039, B2-MEB280036	2, 10	0.30
Phosphorus	B2-MEB280039, B2-MEB266040	200, 1000	20.0
Potassium	B2-MEB280039, B2-MEB280036	200, 1000	100
Sodium***	B2-MEB280039, B2-MEB266040	200, 1000**	100
Zinc	B2-MEB280039, B2-MEB280036	10, 50	0.40

\*Calculated on a fresh weight basis.

\*\*B2-MEB266040 was diluted to 800 µg/mL for the high-level sodium standard.

\*\*\*For LIMS 90100122-90100141, SPEX Industries Lot Number AB11-94NA (concentration of 10000 µg/mL and diluted to 800 µg/mL for the high-level sodium standard) was used instead of Inorganic Ventures Lot Number B2-MEB266040.

#### References:

*Official Methods of Analysis of AOAC INTERNATIONAL*, 18<sup>th</sup> Ed., Methods 984.27 and 985.01, AOAC INTERNATIONAL: Gaithersburg, Maryland, (2005).

#### Isoflavones (ASOF)

The samples were extracted at approximately 65°C with a 80/20 methanol:water solution and the extracts were saponified with dilute NaOH solution. The extracts were then acidified, filtered, and diluted. The samples were analyzed on a high-performance liquid chromatography system with ultraviolet spectrophotometric detection and were compared against an external standard curve. The limit of quantitation for this study was 10 ppm (µg/g) for each component. The limit of quantitation was calculated and reported on a fresh weight basis.

#### Reference Standards:

Chromadex, Daidzein, 96.5% Lot Number: 04007-120.

Chromadex, Glycitein, 96.3% Lot Number: 07344-571.

Indofine, Genistein, ≥99% (used as 100%) Lot Number: 0309074.

Chromadex, Daidzin, 88.5% Lot Number: 04014-111.

Indofine, Glycitin, 98 +% (used as 98%) Lot Number: 0310179.

Indofine, Genistin, ≥99% (used as 100%) Lot Number: 0701006.

#### Reference:

*Official Methods of Analysis of AOAC INTERNATIONAL*, 18<sup>th</sup> Ed., Official Methods 2001.10, AOAC INTERNATIONAL: Gaithersburg, Maryland, (2005).

#### Lectin (LECT)

The sample was suspended in phosphate buffered saline (PBS), shaken, and filtered. An aliquot of the resulting extract was serially diluted in 10 cuvettes containing PBS. A 10% hematocrit of lyophilized rabbit blood in PBS was added to each dilution. After 2.5 hours, the absorbance of each dilution of the sample and lectin control was measured on a spectrophotometer at 620 nm, using PBS to zero the instrument. One hemagglutinating



unit (H.U.) was defined as the level that caused 50% of the standard cell suspension to sediment in 2.5 hours. The limit of quantitation for this study was 0.10 H.U./mg. The limit of quantitation was calculated and reported on a fresh weight basis.

**Reference Standard:**

Sigma-Aldrich, Red Blood Cells, Rabbit, Product #R1629, Lot Number 121K9302

**References:**

Klurfeld, D. M. and Kritchevsky, D., "Isolation and Quantitation of Lectins from Vegetable Oils," *Lipids*, 22:667-668, (1987).

Liener, I. E., "The Photometric Determination of the Hemagglutinating Activity of Soyin and Crude Soybean Extracts," *Archives of Biochemistry and Biophysics*, 54:223-231, (1955).

**Moisture (M100)**

The sample was dried in a vacuum oven at approximately 100°C to a constant weight. The moisture weight loss was determined and converted to percent moisture. The limit of quantitation for this study was 0.100%.

**Reference:**

*Official Methods of Analysis of AOAC INTERNATIONAL*, 18<sup>th</sup> Ed., Methods 926.08 and 925.09, AOAC INTERNATIONAL: Gaithersburg, Maryland, (2005).

**Neutral Detergent Fiber, Enzyme Method (NDFE)**

The sample was washed with acetone to remove fats and pigments. It was then placed in a filter bag and positioned in an Ankom analyzer where it was washed with a neutral boiling detergent solution that dissolved the protein, carbohydrate, enzyme, and ash. The remaining hemicellulose, cellulose, and lignin fractions were determined gravimetrically. The limit of quantitation for this study was 0.100%. The limit of quantitation was calculated and reported on a fresh weight basis.

**References:**

*Approved Methods of the American Association of Cereal Chemists*, 9th Ed., Method 32.20, (1998).

*Forage and Fiber Analyses*, Agriculture Handbook No. 379, United States Department of Agriculture, (1970).

**Phytic Acid (PHYT)**

The sample was extracted using 0.5M HCl with ultrasonication. Purification and concentration were accomplished on a silica-based anion-exchange column. The sample was analyzed on a polymer high-performance liquid chromatography column PRP-1, 5µm (150 x 4.1mm) with a refractive index detector. The limit of quantitation for this study

was approximately 0.100%. The limit of quantitation was calculated and reported on a fresh weight basis.

**Reference Standard:**

Sigma-Aldrich, Phytic Acid, Dodecasodium Salt Hydrate, 95%, Lot Number 077K0693

**References:**

Lehrfeld, Jacob, "HPLC Separation and Quantitation of Phytic Acid and Some Inositol Phosphates in Foods: Problem and Solutions," *Journal of Agricultural and Food Chemistry*, 42:2726-2731, (1994).

Lehrfeld, Jacob, "High-Performance Liquid Chromatography Analysis of Phytic Acid on a pH-Stable, Macroporous Polymer Column," *Cereal Chemistry*, 66(6):510-515, (1989).

**Protein (PGEN)**

Nitrogenous compounds in the sample were reduced in the presence of boiling sulfuric acid and a mercury catalyst mixture to form ammonia. The acid digest was made alkaline. The ammonia was distilled and then titrated with a previously standardized acid. The percent nitrogen was calculated and converted to equivalent protein using the factor 6.25. The limit of quantitation was calculated and reported on a fresh weight basis. The limit of quantitation for this study was 0.100%.

**References:**

*Official Methods of Analysis of AOAC INTERNATIONAL*, 18<sup>th</sup> Ed., Methods 955.04 and 979.09, AOAC INTERNATIONAL, Gaithersburg, Maryland, (2005).

Bradstreet, R. B., *The Kjeldahl Method for Organic Nitrogen*, Academic Press: New York, New York, (1965).

Kalchoff, I. M., and Sandell, E. B., *Quantitative Inorganic Analysis*, MacMillan: New York, (1948).

**Raffinose and Stachyose (SUGT)**

The sample was extracted with deionized water and the extract treated with a hydroxylamine hydrochloride solution in pyridine, containing phenyl- $\beta$ -D-glucoside as an internal standard. The resulting oximes were converted to silyl derivatives by treatment with hexamethyldisilazane and trifluoroacetic acid and analyzed by gas chromatography using a flame ionization detector. The limit of quantitation for this study was 0.100%. The limit of quantitation was calculated and reported on a fresh weight basis.

**Reference Standards:**

Sigma-Aldrich, D(+)-Raffinose Pentahydrate, 99% (84.0% after correction for degree of hydration), Lot Number 037K1059

Sigma-Aldrich, D(+)-Stachyose, 98% (96.8% after correction for moisture), Lot Number 038K3775

References:

Brobst, K. M., "Gas-Liquid Chromatography of Trimethylsilyl Derivatives," *Methods in Carbohydrate Chemistry*, Volume 6, Academic Press: New York, New York, (1972).

Mason, B. S., and Slover, H. T., "A Gas Chromatographic Method for the Determination of Sugars in Foods," *Journal of Agricultural and Food Chemistry*, 19(3):551-554, (1971).

**Thiamine Hydrochloride (BIDE)**

The sample was autoclaved under weak acid conditions to extract the thiamine. The resulting solution was incubated with a buffered enzyme solution to release any bound thiamine. The solution was purified on a cation-exchange column. An aliquot was reacted with potassium ferricyanide to convert thiamine to thiochrome. The thiochrome was extracted into isobutyl alcohol, measured on a fluorometer, and quantitated by comparison to a known standard. The limit of quantitation for this study was 0.01 mg/100g. The limit of quantitation was calculated and reported on a fresh weight basis. Results were reported as thiamine hydrochloride.

Reference Standard:

USP, Thiamine hydrochloride, 99.8% (used as 95.9% after correction for moisture content), Lot Number 01F236

Reference:

*Official Methods of Analysis of AOAC INTERNATIONAL*, 18<sup>th</sup> Ed., Methods 942.23, 953.17, and 957.17, AOAC INTERNATIONAL: Gaithersburg, Maryland, (2005).

**Tocopherols, Total (TTLC)**

The product was saponified to break down any fat and release vitamin E. The saponified mixture was extracted with an organic solvent, dried down and brought to a suitable volume in hexane. The sample was then quantitated by high-performance liquid chromatography using a silica column. Limit of quantitation for this study was approximately 5.00 mg/kg. The limit of quantitation was calculated and reported on a fresh weight basis.

Reference Standard:

USP, Alpha Tocopherol, 100%, Lot Number M

Matreya, Beta Tocopherol, >98% as stated on Certificate of Analysis (87.9% and 90.6% determined spectrophotometrically), Lot Number 22647

Sigma, Gamma Tocopherol, 99%, Lot Number 048K1070

Sigma, Delta Tocopherol, 95%, Lot Number 126K1307

References:

Speek, A. J., Schijver, J., and Schreurs, W. H. P., "Vitamin E Composition of Some Seed Oils as Determined by High-Performance Liquid Chromatography with Fluorometric Quantitation," *Journal of Food Science*, 50(1):121-124, (1985).

Cort, W. M., Vincente, T. S., Waysek, E. H., and Williams, B. D., "Vitamin E Content of Feedstuffs Determined by High-Performance Liquid Chromatographic Fluorescence," *Journal of Agricultural and Food Chemistry*, 31:1330-1333, (1983).

McMurray, C. H., Blanchflower, W. J., and Rice, D. A., "Influence of Extraction Techniques on Determination of  $\alpha$ -Tocopherol in Animal Feedstuffs," *Journal of the Association of Official Analytical Chemists*, 63(6):1258-1261, (1980).

**Trypsin Inhibitor (TRIP)**

The sample was ground and defatted with petroleum ether. A sample of matrix was extracted with 0.01N sodium hydroxide. Varying aliquots of the sample suspension were exposed to a known amount of trypsin and benzoyl-DL-arginine-p-nitroanilide hydrochloride. The sample was allowed to react for 10 minutes at 37°C. After 10 minutes, the reaction was halted by the addition of acetic acid. The solution was centrifuged, then the absorbance was determined at 410 nm. Trypsin inhibitor activity was determined by photometrically measuring the inhibition of trypsin's reaction with benzoyl-DL-arginine-p-nitroanilide hydrochloride. The limit of quantitation for this study was 1.00 Trypsin Inhibitor Units (TIU)/mg. The limit of quantitation was calculated and reported on a fresh weight basis.

Reference:

*Official Methods and Recommended Practices of the American Oil Chemists' Society*, 5th Ed., Method Ba 12-75, American Oil Chemists' Society: Champaign, Illinois, (1997).

**Vitamin B<sub>2</sub> (Riboflavin) (B2FV)**

The sample was hydrolyzed with dilute hydrochloric acid and the pH was adjusted to remove interferences. The amount of riboflavin was determined by comparing the growth response of the sample, using the bacteria *Lactobacillus rhamnosus*, with the growth response of multipoint riboflavin standards. The growth response was measured turbidimetrically. The limit of quantitation for this study was 0.200 ppm. The limit of quantitation was calculated and reported on a fresh weight basis.

Reference Standard:

USP, Riboflavin, 100%, Lot Number: N0C021

References:

*Official Methods of Analysis of AOAC INTERNATIONAL*, 18<sup>th</sup> Ed., Methods 940.33 and 960.46, AOAC INTERNATIONAL, Gaithersburg, Maryland, (2005).

*The United States Pharmacopeia*, Twenty-Ninth Revision, p. 1913, United States Pharmacopeial Convention, Inc.: Rockville, Maryland, (2005).

**Vitamin K (VKLC)**

The sample is extracted with organic solvents and injected on a high-performance liquid chromatography system. Quantitation is achieved with linear regression analysis using a laboratory automation system. The limit of quantitation for this study was 0.100 ppm. The limit of quantitation was calculated and reported on a fresh weight basis.

Reference Standard:

USP, Phytonadione K1, 100%, Lot Number: NOB303

References:

*Official Methods of Analysis of AOAC INTERNATIONAL*, 18<sup>th</sup> Ed., Methods 992.27, AOAC INTERNATIONAL, Gaithersburg, Maryland, (2005).