Chemical Name: Afidopyropen
USEPA PC Code: 026200
USEPA MRID: 49689227
USEPA DP Barcode: 435146
PMRA Data Code (DACO): 9.2.4.8
PMRA Study No. (UKID): 2627492
Data Requirement: Non-guideline

Test Material: BAS 440 00 I (TEP, VERSYS™) **Purity:** 9.7%

Active Ingredient: Afidopyropen
IUPAC Name: [(3*S*,4*R*,4a*R*,6*S*,6a*S*,12*R*,12a*S*,12b*S*)-3-(cyclopropylcarbonyloxy)-1,2,3,4,4a,5,6,6a,12a,12b-decahydro-6,12-dihydroxy-4,6a,12b-trimethyl-11-oxo-9-(3-pyridyl)-11*H*,12*H*-benzo[*f*]pyrano[4,3-*b*]chromen-4-yl]methylcyclopropane carboxylate
CAS Name: [(3*S*,4*R*,4a*R*,6*S*,6a*S*,12*R*,12a*S*,12b*S*)-3-(cyclopropylcarbonyl)oxy)]-1,3,4,4a,5,6,6a,12,12a,12b-decahydro-6,12-dihydroxy-4,6a,12b-trimethyl-11-oxo-9-(3-pyridyl)-2*H*,11*H*-naphtho[2,1-*b*]pyrano[3,4-*e*]pyran-4-yl]methyl cyclopropanecarboxylate
CAS No.: 915972-17-7
Synonyms: INSCALIS™

Primary Reviewer: Thomas Steeger, Ph.D. **Signature:** THOMAS STEEGER Digitally signed by THOMAS STEEGER Date: 2018.02.20 12:19:39 -05'00'
Senior Science Advisor, USEPA/OSCP/OPP/EFED/ERB 4 **Date:** 15 February 2018

Secondary Reviewer: Cameron Douglass, Ph.D. **Signature:** Cameron Douglass 2018.02.15 14:49:38 -05'00'
Biologist, USEPA/OSCP/OPP/EFED/ERB 4 **Date:** 15 February 2018

PMRA Reviewer: Vedad Izadi **Date:** 1 September 2017
Evaluation Officer, PMRA/EAD/ERSII

Date Evaluation Completed: 1 September 2017

CITATION: Drews, A. A. 2015. Determination of residues of BAS 440 00 I (Afidopyropen and its metabolite M440I007) in bee-relevant matrices in a field study in citrus after one application during flowering**.** Eurofins Agroscience Services Eco Chem GmbH Eutinger Str. 24 75223 Niefern-Öschelbronn, Germany. Report No. 733094. Sponsored by BASF.

Executive Summary:

A semi-field test was carried out to determine the residues of a typical end-use product (TEP) containing afidopyropen (BAS 440 00 I, VERSYS™), and its metabolite M440I007 in nectar, pollen, flowers and leaves from citrus (*Citrus* sp.) either treated once with BAS 440 00 I (9.7% active ingredient) or with water (negative control) during bloom at BBCH 63 in Florida, USA. BAS 440 00 I was applied as one application corresponding to a nominal rate of 50 g a.i./ha (0.272 lbs a.i./A). All applications were performed using a tractor-mounted air blast sprayer at 4,000 L water/ha. There were three replicates in the afidopyropen treatment and one replicate in the untreated control.

Mean (± standard deviation) afidopyropen residues in citrus flowers were 0.77 mg/kg (± 0.41) at 0 days after application (0 DAA), 0.092 mg/kg (± 0.019) at 3 DAA, and 0.026 mg/kg (± 0.003) at 6 DAA. Mean M440I007 residues were 0.031 mg/kg (± 0.011) at 0 DAA, 0.030 mg/kg (± 0.003) at 3 DAA, and were below the LOQ (<0.01 mg/kg) in all samples collected 6 DAA.

In citrus leaves, mean afidopyropen residues were 1.64 mg/kg (± 0.416) at 0 DAA, were 0.58 mg/kg (± 0.185) at 3 DAA and 0.143 mg/kg (± 0.012) at 6 DAA. Mean M440I007 residues were 0.25 mg/kg (± 0.046) at 0 DAA and 0.27 mg/kg (± 0.02) at 3 DAA and 0.07 mg/kg (± 0.006) at 6 DAA.

In citrus pollen, mean afidopyropen residues were 2.28 mg/kg (± 0.343) at 0 DAA, were 0.073 mg/kg (± 0.020) at 3 DAA and 0.038 mg/kg (± 0.011) at 6 DAA. Mean M440I007 residues were 0.040 mg/kg (± 0.011) at 0 DAA and 0.024 mg/kg (± 0.005) at 3 DAA and were below the LOQ at 6 DAA.

In nectar, mean afidopyropen residues were 0.017 mg/kg (±0.004) at 0 DAA, and were below the LOQ (<0.01 mg/kg) in all samples collected 3 and 6 DAA. Mean M440I007 residues were below the LOQ in all samples collected 0, 3 and 6 DAA.

Results Synopsis:

Mean residues at 0 DAA after an air blast application of BAS 440 00 I at nominal rate of 50 g a.i./ha (0.272 lbs a.i./A):

Flowers: 0.773 ± 0.413 mg/kg (Parent); 0.031 ± 0.011 mg/kg (M4401007)
Leaves: 1.64 ± 0.416 mg/kg (Parent); 0.250 ± 0.046 mg/kg (M4401007)
Nectar: 0.017 ± 0.004 mg/kg (Parent); <0.01 mg/kg (M4401007)
Pollen: 2.28 ± 0.343 mg/kg (Parent); 0.040 ± 0.011 mg/kg (M4401007)

EPA Classification: Acceptable
PMRA Classification: Reliable with restrictions

I. DATA SOURCE

USEPA MRID No.:	49689227
PMRA UKID:	2627492
Study Title:	Determination of residues of BAS 440 00 I (Afidopyropen and its metabolite M440I007) in bee-relevant matrices in a field study in citrus after one application during flowering**.**
Study Author(s):	Drews, A**.**
Testing Laboratory:	Eurofins Agroscience Services Eco Chem GmbH Eutinger Str. 24 75223 Niefern-Öschelbronn Germany
Laboratory Report No.:	733094
Sponsor Study No.:	BASF Reg. Doc. #: 2015/7001308
Study Completion Date:	15 December 2015
Data Access:	Data submitter is data owner
Data Protection Claimed:	Yes

II. MATERIALS AND METHODS

Test Guideline: Non-guideline per US EPA; Guideline 1607/VI/97 (rev. 2) to Directive 91/414/EEC and Regulations (EU) 283/2013 and 284/2013 implementing Regulation (EC) 1107/2009
SANCO/3029/99 rev. 4

Deviations from Guideline: No

GLP Compliance: Study conducted compliant with the Principles of Good Laboratory Practice (GLP) (Chemicals Act, Annex 1, Germany); the OECD Principles of Good Laboratory Practice, which are accepted by regulatory authorities throughout the European Community, the United States of America (EPA and FD) and Japan (MHW, MAFF and METI) on the basis of intergovernmental agreements. The analytical phase was compliant with EPA Good Laboratory Practice requirements (40 CFR 160). (Laboratory certified by the LUBW Landesamt für Umwelt, Messungen und Naturschutz Baden-Württemberg).

A. MATERIALS

Test Material: BAS 440 00I (Reg. no. 5 599 022)
Active ingredient: BAS 440 00I (afidopyropen)
CAS Number 915972-17-7

Test Material Identity: Batch No. FD0130925-0022; dispersible concentrate; 9.6% (w/w) 98.2 g a.i./L (nominal: 100 g/L). Liquid/yellow.

Details on Preparation and Application of Test Materials:
Content of active ingredient: BAS 440 I: 9.7% w/w; (nominal: 100 g/L); batch no. FD0130925-0022; density: 1.023 g/cm^3. The test item solution was prepared shortly before the application. Homogeneity of the test item solution was obtained by thorough stirring or mixing. The applications were carried out with a clean tractor mounted air blast sprayer which was calibrated by the volume/time method on the day of application. The application was carried out at flowering of the crop. All substances were applied in 4000 L/ha water using a calibrated tractor mounted air blast sprayer.

Analytical Monitoring: Yes (see below)

Details on Analytical Method: Specimens of citrus leaves, flowers, nectar and pollen were analyzed for residues of afidopyropen and M440I007 following the provisions of BASF Method D1412: '*Determination of Residues of BAS 440 I and its Metabolite M440I007 in Bee – Related Matrices by LCMS/MS*'.
A brief description of the method is provided below (detailed information are provided in the report): the residues of afidopyropen and Its metabolite M440I007 were extracted by shaking with acetonitrile. A mixture of salts ($MgS0_4$, NaCl, trisodium citrate dihydrate, and disodium hydrogencitrate sesquihydrate) were added to separate

the aqueous and organic layers. An aliquot of the resulting extract was treated with MgSCu and dispersive solid-phase extraction (SPE) material. An aliquot of the extract was then diluted with 0.1 % formic acid in acetonitrile for high pressure liquid chromatography coupled with tandem mass spectroscopy (HPLC-MS/MS) determination. The limit of quantification (LOQ) for afidopyropen and M440I007 in bee-related matrices was 0.01 mg/kg each. The method limit of detection (LOD) was estimated at 20% of the limit of quantitation, equivalent to 0.002 mg/kg for each analyte of concern.

Method-detector response was linear over the 0.01 – 1.0 ng/mL range (r= 0.9876 – 0.9999); the limit of quantitation (LOQ), based on the lowest level of method validation (LLMV) was approximately 0.01 mg/kg for each analyte in the various matrices. Mean recoveries from flowers, pollen and nectar "shipping verification" samples were 72 – 95% of nominal; field spikes were stored for up to 188 days for flowers and 191 days for leaves, 180 days for nectar and 242 days for pollen prior to extraction.

Reference Material: None
Reference Material Identity: N/A
Vehicle: N/A

Test Organism (Species): N/A
Animal Group: N/A
Details on Test Organisms: N/A

B. STUDY DESIGN AND METHODS

Study Type: Semi-field (tunnel) study
Test Duration Type: Residues of BAS 440 I (afidopyropen) and its metabolite M440I007 in inflorescences, leaves, nectar and pollen of citrus, treated once with BAS 440 00 I during flowering in a field residue study in Florida. Determination of residues of BAS 440 I and its metabolite M440I007 in bee-relevant matrices up to 6 days after application of the test item
Limit Test: Yes
Total Exposure Duration: 6 days
Post-Exposure Observation Period:
Honey bees were only used as sampling device. No biological observations were made
Test Location: This residue study was conducted in Mascotte, Florida, USA
Test Environmental Conditions: Natural field conditions; during the application the temperature, wind speed, cloud coverage and humidity data were recorded in the field. For the entire field phase, the following weather data were taken from a weather station at Okahumpa, FL at a distance of approx. 7.7 km to the field site: daily min/max and mean temperature, daily min/max and mean humidity (non-GLP record). Daily precipitation was measured with

a rain gauge placed at the field site. During the study, air temperatures were 16.44 °C – 30.34 °C during application of the test item, 15.76 °C – 30.55 °C during field phase. Humidity ranged from 35% – 100% during application without precipitation; 41% – 100% during field phase.

Photoperiod and Lighting: Natural (ambient) environmental conditions.

Nominal and Measured Concentrations:

Nominal: negative control (untreated water), 0.5 L BAS 440 00 I/ha (corresponding to 50 g BAS 440 I/ha); all treatments were applied in 4000 L water/ha.

Test Plots: The plot size was ~186 m^2 (30.48 x 6.1 m), with 8 citrus trees/plot. The minimum distance between test item treatments was ~7.6 m, the minimum distance between test item treatments and control treatments was ~38 m.

Test Design: Sampling of citrus inflorescences: The flowers were picked by hand at the pedical and bagged. The flowers were collected from at least 12 different locations across the plot and pooled. Flowers were sampled 3 times during flowering period at BBCH 63 to 65 (0 DAA, 3 DAA and 6 DAA). Samples were divided into sub-sample A (with at least 5 g) for residue analysis and R as retained sample. Flower samples were kept on blue ice during transport. Samples were subsequently stored deep frozen until residue analysis. The collected samples were kept separately per treatment. Control samples were taken before the treated samples or by different technicians and different equipment was used.

Sampling of citrus leaves: Leaves were hand collected at three dates (0 DAA, 3 DAA and 6 DAA) from at least 12 locations across the plot, pooled samples weighted < 5g. Directly after sampling, the samples were split in two sub-samples (A for residue analysis and R to be retained). Leaves samples were transported cooled on blue ice and subsequently stored deep frozen until residue analysis. The collected samples were kept separately per treatment. Control samples were taken before the treated samples or by different technicians and different equipment was used.

Sampling of nectar and pollen from citrus flowers: On each sampling day a pooled sample of flowers per plot was collected from at least 12 different locations across the plot. Nectar and pollen was collected from these flowers for subsequent residue analysis as follows: Nectar was drawn from the nectary of the blossoms using disposable 5 µL micro capillaries. After nectar extraction, flowers were allowed to rest overnight in aluminum pans which were covered with paper towels moistened with water. Pollen was extracted from the flowers using a

vacuum pump. Pollen was removed from individual flowers by passing pipet tips over the anthers while under vacuum. Approximately four to five pipets were used to collect the required volume of pollen. Once collected, all of the pipets were placed back into the plastic bottle and weighed to determine the weight of pollen collected. Samples were divided into sub-sample A for residue analysis and R as retained sample. Pipets tips were wrapped with Parafilm to prevent any loss of pollen. Samples were subsequently deep frozen until residue analysis. Control samples were taken before the treated samples or by different technicians and different equipment was used.

III. APPLICANT'S REPORTED RESULTS AND DISCUSSION

Exposure Duration:	6 days
Endpoint(s):	Residues of BAS 440 I (afidopyropen) and its metabolite M440I007 in inflorescences, leaves, nectar and pollen of citrus, treated once with BAS 440 00 I during flowering in a field residue study in Florida.
Basis for Concentration:	Nominal
Effect Concentration Type:	Test material
Basis for Effect:	Measured residues in leaves, flowers and bee-collected pollen/nectar from treated citrus (*Citrus* spp).

Applicant-Provided Results:
The study report indicated mean corrected recoveries of afidopyropen in flowers, pollen and nectar were 72 – 95%. According to the study authors, these data indicate that sample handling from the field to the laboratory and storage at the laboratory, did not compromise the various bee-related matrices. Flowers spiked with 0.01 and 1.0 mg/kg averaged afidopyropen recoveries 82%% while recoveries of M4401007 averaged 94%. Recoveries of afidopyropen from leaves spiked with 0.01 and 1.0 mg/kg averaged 90% while recoveries of M4401007 averaged 87%. Recoveries of afidopyropen from nectar spiked with 0.01 or 1.0 mg/kg averaged 91% while recoveries of M4401007 averaged 93%. Recoveries of afidopyropen from pollen spiked with 0.01 or 1.0 mg/kg averaged 104% while recoveries of M4401007 averaged 97%.

According to the study authors, in citrus flowers, mean afidopyropen residues were 0.77 mg/kg (range: 0.53 -1.25 mg/kg) at 0 days after treatment (0 DAA), declined to 0.092 mg/kg (range: 0.073 - 0.11 mg/kg) at 3 DAA, and were 0.026 mg/kg (range: 0.024 - 0.029 mg/kg) at 6 DAA (**Table 1**). Mean M440I007 residues were 0.031 mg/kg (range: 0.021 - 0.043 mg/kg) at 0 DAA, were 0.030 mg/kg (range: 0.028 - 0.033 mg/kg) at 3 DAA, and declined to below the limit of quantitation (LOQ <0.01 mg/kg) except one at 0.011 mg/kg at 6 DAA.

The study reported that in citrus leaves, mean afidopyropen residues were 1.64 mg/kg (range: 1.39 - 2.12 mg/kg) at 0 DAA, declined to 0.58 mg/kg (range: 0.44 - 0.79 mg/kg) at 3 DAA, and were 0.15 mg/kg (range: 0.13 - 0.15 mg/kg) at 6 DAA (**Table 1**). Mean M440I007 residues in leaves were 0.25 mg/kg (range: 0.20 - 0.28 mg/kg) at 0 DAA, 0.27 mg/kg (range, 0.25 - 0.29 mg/kg) at 3 DAA, and declinedto 0.07 mg/kg (range: 0.058 - 0.069 mg/kg) at 6 DAA.

According to the study authors afidopyropen residues in nectar were 0.017 mg/kg (range: 0.013 - 0.022 mg/kg) at 0 DAA, and were below the limit of quantitation (<0.01 mg/kg) in all samples collected 3 and 6 days after treatment (**Table 1**). Mean M440I007 residues in nectar were below the LOQ (<0.01 mg/kg) in all samples collected.

In pollen, mean afidopyropen residues were 2.28 mg/kg (range: 1.99 - 2.66 mg/kg) at 0 DAA, declined to 0.073 mg/kg (range: 0.058 - 0.096 mg/kg) at 3 DAA, and were 0.038 mg/kg (range: 0.027 - 0.049 mg/kg) at 6 DAA (**Table 1**). Mean M440I007 residues in pollen were 0.040 mg/kg (range: 0.027 - 0.046 mg/kg) at 0 DAA, declined to 0.024 mg/kg (range: 0.021 - 0.029 mg/kg) at 3 DAA, and were below the LOQ except one at 0.010 mg/kg at 6 DAA.

The treated samples in this study were stored frozen for 170 - 242 days, from collection to extraction for analysis (approximately 6 - 8 months). The available storage stability data from the shipping verification samples (field spikes performed in conjunction with the subject study) support the storage intervals and conditions incurred by the residue samples in this study.

Table 1. Registrant summary of measured afidopyropen parent and M4401007 degradate residues (range and mean) in flowers, leaves, nectar and pollen from citrus (*Citrus* spp) at 0, 3 and 6 days after application of afidopyropen typical end-use product BAS 440 00 I (9.7% active ingredient) during bloom.

Analyte (Matrix)	Days after treatment (DAA)	Residue levels [mg/kg] [1)]				
		n	BAS 440 I (afidopyropen)		M440I007	
			Range	Mean	Range	Mean
Flowers	0	3	0.53 – 1.25	0.77	0.02 – 0.04	0.03
	3	3	0.07 – 0.11	0.09	0.03 – 0.03	0.03
	6	3	0.02 – 0.03	0.03	< 0.01 - 0.011	< 0.01
Leaves	0	3	1.39 – 2.12	1.64	0.20 – 0.28	0.25
	3	3	0.44 – 0.79	0.58	0.25 – 0.29	0.27
	6	3	0.13 - 0.15	0.15	0.06 – 0.07	0.07
Nectar	0	3	0.01 – 0.02	0.02	< 0.01	< 0.01
	3	3	< 0.01 - < 0.01	< 0.01	< 0.01	< 0.01
	6	3	< 0.01 - < 0.01	< 0.01	< 0.01	< 0.01
Pollen	0	3	1.99 – 2.66	2.28	0.03 - 0.05	0.04
	3	3	0.06 – 0.10	0.08	0.02 – 0.03	0.02
	6	3	0.03 – 0.05	0.04	< 0.01 - 0.010	< 0.01

[1]Limit of quantitation (LOQ) for afidopyropen and M4401007 <0.01 mg/kg.

Applicant-Reported Statistics and Error Estimates

Statistical treatment of the data included simple descripting statistics (*e.g.*, mean; range) for the residue and method recovery data, and calculation of the calibration curve and coefficient of variation (*r*) by linear regression of the instrument responses for the reference standards.

IV. OVERALL REMARKS, ATTACHMENTS

Electronic spreadsheet files of raw response data provided with submission.

V. PRIMARY REVIEWER'S ANALYSIS AND CONCLUSIONS

Average residues of parent afidopyropen and its M440I007 degradate are consistent with those calculated by the study authors and reported in **Table 1**.

Reviewer's Statistical Verification:

Descriptive statistics on residue levels at various study sampling intervals were generated using the Proc Univariate procedure of SAS® (SAS Institute, Cary, NC).

Reviewer's Comments:

Treatments were conducted on March 18, 2015; based on weather data, on March 19, 20, and 23, precipitation was measured on-site at 1.56, 0.25, and 20.32 mm, respectively. There is uncertainty as to how the rain events the days after application may have affected residue levels.

Residue levels of afidopyropen and its M4401007 degradate in various plant matrices were similar to those estimated by the study authors with the exception of mean afidopyropen residues in leaves at 5 hrs. The study authors reported 0.15 mg/kg while the reviewer estimated 0.14 mg/kg.

Reviewer's Conclusions:

Following a spray blast application of the afidopyropen formulated product BAS 440 00 I (9.7% a.i.) at a nominal rate of 50 g BAS 440 I/ha (0.272 lbs/A) to citrus at bloom mean (± standard deviation) afidopyropen residues in citrus flowers were 0.77 mg/kg (± 0.41) at 0 days after application (0DAA), 0.092 mg/kg (± 0.019) at 3 DAA, and 0.026 mg/kg (± 0.003) at 6 DAA. Mean M440I007 residues were 0.031 mg/kg (± 0.011) at 0 DAA, 0.030 mg/kg (± 0.003) at 3 DAA, and were below the LOQ (<0.01 mg/kg) in all samples collected 6 DAA.

In citrus leaves, mean afidopyropen residues were 1.64 mg/kg (± 0.416) at 0 DAA, were 0.58 mg/kg (± 0.185) at 3 DAA and 0.143 mg/kg (± 0.012) at 6 DAA. Mean M440I007 residues were 0.25 mg/kg (± 0.046) at 0 DAA and 0.27 mg/kg (± 0.02) at 3 DAA and 0.07 mg/kg (± 0.006) at 6 DAA.

In citrus pollen, mean afidopyropen residues were 2.28 mg/kg (± 0.343) at 0 DAA, were 0.073 mg/kg (± 0.020) at 3 DAA and 0.038 mg/kg (± 0.011) at 6 DAA. Mean M440I007 residues were 0.040 mg/kg (± 0.011) at 0 DAA and 0.024 mg/kg (± 0.005) at 3 DAA and were below the LOQ at 6 DAA.

In nectar, mean afidopyropen residues were 0.017 mg/kg (±0.004) at 0 DAA, and were below the LOQ (<0.01 mg/kg) in all samples collected 3 and 6 DAA. Mean M440I007 residues were below the LOQ in all samples collected 0, 3 and 6 DAA.

Results Synopsis:

Mean residues at 0 DAA after an air blast application of BAS 440 00 I at nominal rate of 50 g a.i./ha (0.272 lbs a.i./A):

Flowers: 0.773 ± 0.413 mg/kg (Parent); 0.031 ± 0.011 mg/kg (M4401007)
Leaves: 1.64 ± 0.416 mg/kg (Parent); 0.250 ± 0.046 mg/kg (M4401007)
Nectar: 0.017 ± 0.004 mg/kg (Parent); <0.01 mg/kg (M4401007)

Pollen: 2.28 ± 0.343 mg/kg (Parent); 0.040 ± 0.011 mg/kg (M4401007)

EPA Classification: Acceptable
PMRA Classification: Reliable with restrictions

APPENDIX I. Output of Statistics Verified by the Reviewer

DESCRIPTIVE STATISTICS FOR RESIDUES OF PARENT AND DEGRADATE IN VARIOUS MATRICES FROM CITRUS

The UNIVARIATE Procedure
Variable: PARENT
SAMPLE=Flower DAA=0

Moments

N	3	**Sum Weights**	3
Mean	0.77333333	**Sum Observations**	2.32
Std Deviation	0.41283572	**Variance**	0.17043333
Skewness	1.73090758	**Kurtosis**	.
Uncorrected SS	2.135	**Corrected SS**	0.34086667
Coeff Variation	53.3839296	**Std Error Mean**	0.23835082

Basic Statistical Measures

Location		**Variability**	
Mean	0.773333	**Std Deviation**	0.41284
Median	0.540000	**Variance**	0.17043
Mode	.	**Range**	0.72000
		Interquartile Range	0.72000

Tests for Location: Mu0=0

Test	**Statistic**		**p Value**	
Student's t	**t**	3.244517	**Pr > |t|**	0.0833
Sign	**M**	1.5	**Pr >= |M|**	0.2500
Signed Rank	**S**	3	**Pr >= |S|**	0.2500

Quantiles (Definition 5)

Level	**Quantile**
100% Max	1.25
99%	1.25
95%	1.25
90%	1.25
75% Q3	1.25
50% Median	0.54
25% Q1	0.53
10%	0.53
5%	0.53
1%	0.53
0% Min	0.53

Extreme Observations

Lowest	**Highest**

Value	Obs	Value	Obs
0.53	3	0.53	3
0.54	2	0.54	2
1.25	1	1.25	1

DESCRIPTIVE STATISTICS FOR RESIDUES OF PARENT AN DEGRADA E IN VARIOUS MATRICES FROM CITRUS

The UNIVARIATE Procedure
Variable: DEGRADATE
SAMPLE=Flower DAA=0

Moments

N	3	**Sum Weights**	3
Mean	0.031	**Sum Observations**	0.093
Std Deviation	0.01113553	**Variance**	0.000124
Skewness	0.78215212	**Kurtosis**	.
Uncorrected SS	0.003131	**Corrected SS**	0.000248
Coeff Variation	35.9210604	**Std Error Mean**	0.0064291

Basic Statistical Measures

Location		**Variability**	
Mean	0.031000	**Std Deviation**	0.01114
Median	0.029000	**Variance**	0.0001240
Mode	.	**Range**	0.02200
		Interquartile Range	0.02200

Tests for Location: Mu0=0

Test	**Statistic**		**p Value**	
Student's t	**t**	4.821825	**Pr > |t|**	0.0404
Sign	**M**	1.5	**Pr >= |M|**	0.2500
Signed Rank	**S**	3	**Pr >= |S|**	0.2500

Quantiles (Definition 5)

Level	**Quantile**
100% Max	0.043
99%	0.043
95%	0.043
90%	0.043
75% Q3	0.043
50% Median	0.029
25% Q1	0.021
10%	0.021
5%	0.021
1%	0.021
0% Min	0.021

Extreme Observations

Lowest		Highest	
Value	**Obs**	**Value**	**Obs**
0.021	3	0.021	3
0.029	2	0.029	2
0.043	1	0.043	1

DESCRIPTIVE STATISTICS FOR RESIDUES OF PARENT ANL DEGRADA E IN VARIOUS MATRICES FROM CITRUS

The UNIVARIATE Procedure
Variable: PARENT
SAMPLE=Flower DAA=3

Moments

N	3	**Sum Weights**	3
Mean	0.09266667	**Sum Observations**	0.278
Std Deviation	0.01861003	**Variance**	0.00034633
Skewness	-0.5553422	**Kurtosis**	.
Uncorrected SS	0.026454	**Corrected SS**	0.00069267
Coeff Variation	20.0827696	**Std Error Mean**	0.01074451

Basic Statistical Measures

Location		Variability	
Mean	0.092667	**Std Deviation**	0.01861
Median	0.095000	**Variance**	0.0003463
Mode	.	**Range**	0.03700
		Interquartile Range	0.03700

Tests for Location: Mu0=0

Test	Statistic		p Value	
Student's t	**t**	8.624561	**Pr > |t|**	0.0132
Sign	**M**	1.5	**Pr >= |M|**	0.2500
Signed Rank	**S**	3	**Pr >= |S|**	0.2500

Quantiles (Definition 5)

Level	Quantile
100% Max	0.110
99%	0.110
95%	0.110
90%	0.110
75% Q3	0.110
50% Median	0.095
25% Q1	0.073
10%	0.073
5%	0.073

Quantiles (Definition 5)

Level	Quantile
1%	0.073
0% Min	0.073

Extreme Observations

Lowest		Highest	
Value	**Obs**	**Value**	**Obs**
0.073	5	0.073	5
0.095	6	0.095	6
0.110	4	0.110	4

DESCRIPTIVE STATISTICS FOR RESIDUES OF PARENT AND DEGRADATE IN VARIOUS MATRICES FROM CITRUS

The UNIVARIATE Procedure
Variable: DEGRADATE
SAMPLE=Flower DAA=3

Moments

N	3	**Sum Weights**	3
Mean	0.03	**Sum Observations**	0.09
Std Deviation	0.00264575	**Variance**	7E-6
Skewness	1.45786297	**Kurtosis**	.
Uncorrected SS	0.002714	**Corrected SS**	0.000014
Coeff Variation	8.81917104	**Std Error Mean**	0.00152753

Basic Statistical Measures

Location		Variability	
Mean	0.030000	**Std Deviation**	0.00265
Median	0.029000	**Variance**	7E-6
Mode	.	**Range**	0.00500
		Interquartile Range	0.00500

Tests for Location: Mu0=0

Test	Statistic		p Value	
Student's t	**t**	19.63961	**Pr > |t|**	0.0026
Sign	**M**	1.5	**Pr >= |M|**	0.2500
Signed Rank	**S**	3	**Pr >= |S|**	0.2500

Quantiles (Definition 5)

Level	Quantile
100% Max	0.033
99%	0.033
95%	0.033
90%	0.033
75% Q3	0.033

Quantiles (Definition 5)

Level	Quantile
50% Median	0.029
25% Q1	0.028
10%	0.028
5%	0.028
1%	0.028
0% Min	0.028

Extreme Observations

Lowest		Highest	
Value	**Obs**	**Value**	**Obs**
0.028	5	0.028	5
0.029	6	0.029	6
0.033	4	0.033	4

DESCRIPTIVE STATISTICS FOR RESIDUES OF PARENT ANL DEGRADA E IN VARIOUS MATRICES FROM CITRUS

The UNIVARIATE Procedure
Variable: PARENT
SAMPLE=Flower DAA=6

Moments

N	3	**Sum Weights**	3
Mean	0.02633333	**Sum Observations**	0.079
Std Deviation	0.00251661	**Variance**	6.33333E-6
Skewness	0.58558273	**Kurtosis**	.
Uncorrected SS	0.002093	**Corrected SS**	0.00001267
Coeff Variation	9.55675245	**Std Error Mean**	0.00145297

Basic Statistical Measures

Location		Variability	
Mean	0.026333	**Std Deviation**	0.00252
Median	0.026000	**Variance**	6.33333E-6
Mode	.	**Range**	0.00500
		Interquartile Range	0.00500

Tests for Location: Mu0=0

Test	Statistic		p Value	
Student's t	**t**	18.12384	**Pr > |t|**	0.0030
Sign	**M**	1.5	**Pr >= |M|**	0.2500
Signed Rank	**S**	3	**Pr >= |S|**	0.2500

Quantiles (Definition 5)

Level	Quantile
100% Max	0.029

Quantiles (Definition 5)

Level	Quantile
99%	0.029
95%	0.029
90%	0.029
75% Q3	0.029
50% Median	0.026
25% Q1	0.024
10%	0.024
5%	0.024
1%	0.024
0% Min	0.024

Extreme Observations

Lowest		Highest	
Value	**Obs**	**Value**	**Obs**
0.024	8	0.024	8
0.026	7	0.026	7
0.029	9	0.029	9

DESCRIPTIVE STATISTICS FOR RESIDUES OF PARENT AND DEGRADATE IN VARIOUS MATRICES FROM CITRUS

The UNIVARIATE Procedure
Variable: DEGRADATE
SAMPLE=Flower DAA=6

Moments

N	1	**Sum Weights**	1
Mean	0.011	**Sum Observations**	0.011
Std Deviation	.	**Variance**	.
Skewness	.	**Kurtosis**	.
Uncorrected SS	0.000121	**Corrected SS**	0
Coeff Variation	.	**Std Error Mean**	.

Basic Statistical Measures

Location		Variability	
Mean	0.011000	**Std Deviation**	.
Median	0.011000	**Variance**	.
Mode	0.011000	**Range**	0
		Interquartile Range	0

Tests for Location: Mu0=0

Test	Statistic	p Value
Student's t	**t** .	**Pr > |t|** .
Sign	**M** 0.5	**Pr >= |M|** 1.0000

Tests for Location: Mu0=0

Test	Statistic		p Value	
Signed Rank	**S**	0.5	**Pr >= |S|**	1.0000

Quantiles (Definition 5)

Level	Quantile
100% Max	0.011
99%	0.011
95%	0.011
90%	0.011
75% Q3	0.011
50% Median	0.011
25% Q1	0.011
10%	0.011
5%	0.011
1%	0.011
0% Min	0.011

Extreme Observations

Lowest		Highest	
Value	**Obs**	**Value**	**Obs**
0.011	9	0.011	9

Missing Values

Missing Value	Count	Percent Of	
		All Obs	**Missing Obs**
.	2	66.67	100.00

DESCRIPTIVE STATISTICS FOR RESIDUES OF PARENT AND DEGRADATE IN VARIOUS MATRICES FROM CITRUS

The UNIVARIATE Procedure
Variable: PARENT
SAMPLE=Leaves DAA=0

Moments

N	3	**Sum Weights**	3
Mean	1.64	**Sum Observations**	4.92
Std Deviation	0.41581246	**Variance**	0.1729
Skewness	1.72754395	**Kurtosis**	.
Uncorrected SS	8.4146	**Corrected SS**	0.3458
Coeff Variation	25.3544182	**Std Error Mean**	0.24006943

Basic Statistical Measures

Location		**Variability**	
Mean	1.640000	**Std Deviation**	0.41581
Median	1.410000	**Variance**	0.17290
Mode	.	**Range**	0.73000
		Interquartile Range	0.73000

Tests for Location: Mu0=0

Test	**Statistic**		**p Value**	
Student's t	**t**	6.831357	**Pr > |t|**	0.0208
Sign	**M**	1.5	**Pr >= |M|**	0.2500
Signed Rank	**S**	3	**Pr >= |S|**	0.2500

Quantiles (Definition 5)

Level	**Quantile**
100% Max	2.12
99%	2.12
95%	2.12
90%	2.12
75% Q3	2.12
50% Median	1.41
25% Q1	1.39
10%	1.39
5%	1.39
1%	1.39
0% Min	1.39

Extreme Observations

Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
1.39	10	1.39	10

Extreme Observations

Lowest		Highest	
Value	**Obs**	**Value**	**Obs**
1.41	11	1.41	11
2.12	12	2.12	12

DESCRIPTIVE STATISTICS FOR RESIDUES OF PARENT ANI DEGRADA E IN VARIOUS MATRICES FROM CITRUS

The UNIVARIATE Procedure
Variable: DEGRADATE
SAMPLE=Leaves DAA=0

Moments

N	3	**Sum Weights**	3
Mean	0.25333333	**Sum Observations**	0.76
Std Deviation	0.04618802	**Variance**	0.00213333
Skewness	-1.7320508	**Kurtosis**	.
Uncorrected SS	0.1968	**Corrected SS**	0.00426667
Coeff Variation	18.2321138	**Std Error Mean**	0.02666667

Basic Statistical Measures

Location		Variability	
Mean	0.253333	**Std Deviation**	0.04619
Median	0.280000	**Variance**	0.00213
Mode	0.280000	**Range**	0.08000
		Interquartile Range	0.08000

Tests for Location: Mu0=0

Test	Statistic		p Value	
Student's t	**t**	9.5	**Pr > |t|**	0.0109
Sign	**M**	1.5	**Pr >= |M|**	0.2500
Signed Rank	**S**	3	**Pr >= |S|**	0.2500

Quantiles (Definition 5)

Level	Quantile
100% Max	0.28
99%	0.28
95%	0.28
90%	0.28
75% Q3	0.28
50% Median	0.28
25% Q1	0.20
10%	0.20
5%	0.20
1%	0.20

Quantiles (Definition 5)

Level	Quantile
0% Min	0.20

Extreme Observations

Lowest		Highest	
Value	**Obs**	**Value**	**Obs**
0.20	11	0.20	11
0.28	12	0.28	10
0.28	10	0.28	12

DESCRIPTIVE STATISTICS FOR RESIDUES OF PARENT ANI DEGRADA E IN VARIOUS MATRICES FROM CITRUS

The UNIVARIATE Procedure
Variable: PARENT
SAMPLE=Leaves DAA=3

Moments

N	3	**Sum Weights**	3
Mean	0.58	**Sum Observations**	1.74
Std Deviation	0.18520259	**Variance**	0.0343
Skewness	1.45786297	**Kurtosis**	.
Uncorrected SS	1.0778	**Corrected SS**	0.0686
Coeff Variation	31.9314813	**Std Error Mean**	0.10692677

Basic Statistical Measures

Location		Variability	
Mean	0.580000	**Std Deviation**	0.18520
Median	0.510000	**Variance**	0.03430
Mode	.	**Range**	0.35000
		Interquartile Range	0.35000

Tests for Location: Mu0=0

Test	Statistic		p Value	
Student's t	**t**	5.424273	**Pr > |t|**	0.0323
Sign	**M**	1.5	**Pr >= |M|**	0.2500
Signed Rank	**S**	3	**Pr >= |S|**	0.2500

Quantiles (Definition 5)

Level	Quantile
100% Max	0.79
99%	0.79
95%	0.79
90%	0.79
75% Q3	0.79
50% Median	0.51

Quantiles (Definition 5)

Level	Quantile
25% Q1	0.44
10%	0.44
5%	0.44
1%	0.44
0% Min	0.44

Extreme Observations

Lowest		Highest	
Value	**Obs**	**Value**	**Obs**
0.44	13	0.44	13
0.51	14	0.51	14
0.79	15	0.79	15

DESCRIPTIVE STATISTICS FOR RESIDUES OF PARENT AND DEGRADATE IN VARIOUS MATRICES FROM CITRUS

The UNIVARIATE Procedure
Variable: DEGRADATE
SAMPLE=Leaves DAA=3

Moments

N	3	**Sum Weights**	3
Mean	0.27	**Sum Observations**	0.81
Std Deviation	0.02	**Variance**	0.0004
Skewness	0	**Kurtosis**	.
Uncorrected SS	0.2195	**Corrected SS**	0.0008
Coeff Variation	7.40740741	**Std Error Mean**	0.01154701

Basic Statistical Measures

Location		Variability	
Mean	0.270000	**Std Deviation**	0.02000
Median	0.270000	**Variance**	0.0004000
Mode	.	**Range**	0.04000
		Interquartile Range	0.04000

Tests for Location: Mu0=0

Test	Statistic		p Value	
Student's t	**t**	23.38269	**Pr > |t|**	0.0018
Sign	**M**	1.5	**Pr >= |M|**	0.2500
Signed Rank	**S**	3	**Pr >= |S|**	0.2500

Quantiles (Definition 5)

Level	Quantile
100% Max	0.29
99%	0.29

Quantiles (Definition 5)

Level	Quantile
95%	0.29
90%	0.29
75% Q3	0.29
50% Median	0.27
25% Q1	0.25
10%	0.25
5%	0.25
1%	0.25
0% Min	0.25

Extreme Observations

Lowest		Highest	
Value	**Obs**	**Value**	**Obs**
0.25	15	0.25	15
0.27	13	0.27	13
0.29	14	0.29	14

DESCRIPTIVE STATISTICS FOR RESIDUES OF PARENT ANL DEGRADA E IN VARIOUS MATRICES FROM CITRUS

The UNIVARIATE Procedure
Variable: PARENT
SAMPLE=Leaves DAA=6

Moments

N	3	**Sum Weights**	3
Mean	0.14333333	**Sum Observations**	0.43
Std Deviation	0.01154701	**Variance**	0.00013333
Skewness	-1.7320508	**Kurtosis**	.
Uncorrected SS	0.0619	**Corrected SS**	0.00026667
Coeff Variation	8.05605027	**Std Error Mean**	0.00666667

Basic Statistical Measures

Location		Variability	
Mean	0.143333	**Std Deviation**	0.01155
Median	0.150000	**Variance**	0.0001333
Mode	0.150000	**Range**	0.02000
		Interquartile Range	0.02000

Tests for Location: Mu0=0

Test	Statistic		p Value	
Student's t	**t**	21.5	**Pr > |t|**	0.0022
Sign	**M**	1.5	**Pr >= |M|**	0.2500
Signed Rank	**S**	3	**Pr >= |S|**	0.2500

Quantiles (Definition 5)

Level	Quantile
100% Max	0.15
99%	0.15
95%	0.15
90%	0.15
75% Q3	0.15
50% Median	0.15
25% Q1	0.13
10%	0.13
5%	0.13
1%	0.13
0% Min	0.13

Extreme Observations

Lowest		Highest	
Value	**Obs**	**Value**	**Obs**
0.13	16	0.13	16
0.15	18	0.15	17
0.15	17	0.15	18

DESCRIPTIVE STATISTICS FOR RESIDUES OF PARENT AND DEGRADA E IN VARIOUS MATRICES FROM CITRUS

The UNIVARIATE Procedure
Variable: DEGRADATE
SAMPLE=Leaves DAA=6

Moments

N	3	**Sum Weights**	3
Mean	0.065	**Sum Observations**	0.195
Std Deviation	0.00608276	**Variance**	0.000037
Skewness	-1.6795356	**Kurtosis**	.
Uncorrected SS	0.012749	**Corrected SS**	0.000074
Coeff Variation	9.3580962	**Std Error Mean**	0.00351188

Basic Statistical Measures

Location		Variability	
Mean	0.065000	**Std Deviation**	0.00608
Median	0.068000	**Variance**	0.0000370
Mode	.	**Range**	0.01100
		Interquartile Range	0.01100

Tests for Location: Mu0=0

Test	Statistic		p Value	
Student's t	**t**	18.50858	**Pr > |t|**	0.0029

Tests for Location: Mu0=0

Test	Statistic		p Value	
Sign	**M**	1.5	**Pr >= |M|**	0.2500
Signed Rank	**S**	3	**Pr >= |S|**	0.2500

Quantiles (Definition 5)

Level	Quantile
100% Max	0.069
99%	0.069
95%	0.069
90%	0.069
75% Q3	0.069
50% Median	0.068
25% Q1	0.058
10%	0.058
5%	0.058
1%	0.058
0% Min	0.058

Extreme Observations

Lowest		Highest	
Value	**Obs**	**Value**	**Obs**
0.058	16	0.058	16
0.068	17	0.068	17
0.069	18	0.069	18

DESCRIPTIVE STATISTICS FOR RESIDUES OF PARENT ANI DEGRADA E IN VARIOUS MATRICES FROM CITRUS

The UNIVARIATE Procedure
Variable: PARENT
SAMPLE=Nectar DAA=0

Moments

N	3	**Sum Weights**	3
Mean	0.01733333	**Sum Observations**	0.052
Std Deviation	0.00450925	**Variance**	0.00002033
Skewness	0.33083181	**Kurtosis**	.
Uncorrected SS	0.000942	**Corrected SS**	0.00004067
Coeff Variation	26.0149024	**Std Error Mean**	0.00260342

Basic Statistical Measures

Location		Variability	
Mean	0.017333	**Std Deviation**	0.00451
Median	0.017000	**Variance**	0.0000203
Mode	.	**Range**	0.00900

Basic Statistical Measures

Location	Variability	
	Interquartile Range	0.00900

Tests for Location: Mu0=0

Test	Statistic		p Value	
Student's t	**t**	6.657918	**Pr > |t|**	0.0218
Sign	**M**	1.5	**Pr >= |M|**	0.2500
Signed Rank	**S**	3	**Pr >= |S|**	0.2500

Quantiles (Definition 5)

Level	Quantile
100% Max	0.022
99%	0.022
95%	0.022
90%	0.022
75% Q3	0.022
50% Median	0.017
25% Q1	0.013
10%	0.013
5%	0.013
1%	0.013
0% Min	0.013

Extreme Observations

Lowest		Highest	
Value	**Obs**	**Value**	**Obs**
0.013	19	0.013	19
0.017	20	0.017	20
0.022	21	0.022	21

DESCRIPTIVE STATISTICS FOR RESIDUES OF PARENT AND DEGRADATE IN VARIOUS MATRICES FROM CITRUS

The UNIVARIATE Procedure
Variable: DEGRADATE
SAMPLE=Nectar DAA=0

Missing Values

Missing Value	Count	Percent Of All Obs	Percent Of Missing Obs
.	3	100.00	100.00

DESCRIPTIVE STATISTICS FOR RESIDUES OF PARENT AND DEGRADATE IN VARIOUS MATRICES FROM CITRUS

The UNIVARIATE Procedure
Variable: PARENT
SAMPLE=Nectar DAA=3

Missing Values

Missing Value	Count	Percent Of All Obs	Percent Of Missing Obs
.	3	100.00	100.00

DESCRIPTIVE STATISTICS FOR RESIDUES OF PARENT AND DEGRADATE IN VARIOUS MATRICES FROM CITRUS

The UNIVARIATE Procedure
Variable: DEGRADATE
SAMPLE=Nectar DAA=3

Missing Values

Missing Value	Count	Percent Of All Obs	Percent Of Missing Obs
.	3	100.00	100.00

DESCRIPTIVE STATISTICS FOR RESIDUES OF PARENT AND DEGRADATE IN VARIOUS MATRICES FROM CITRUS

The UNIVARIATE Procedure
Variable: PARENT
SAMPLE=Nectar DAA=6

Missing Values

Missing Value	Count	Percent Of All Obs	Percent Of Missing Obs
.	3	100.00	100.00

DESCRIPTIVE STATISTICS FOR RESIDUES OF PARENT AND DEGRADATE IN VARIOUS MATRICES FROM CITRUS

The UNIVARIATE Procedure
Variable: DEGRADATE
SAMPLE=Nectar DAA=6

Missing Values

Missing Value	Count	Percent Of All Obs	Percent Of Missing Obs
.	3	100.00	100.00

DESCRIPTIVE STATISTICS FOR RESIDUES OF PARENT AND DEGRADATE IN VARIOUS MATRICES FROM CITRUS

The UNIVARIATE Procedure
Variable: PARENT
SAMPLE=Pollen DAA=0

Moments

N	3	**Sum Weights**	3
Mean	2.28333333	**Sum Observations**	6.85
Std Deviation	0.34268547	**Variance**	0.11743333
Skewness	1.02958639	**Kurtosis**	.
Uncorrected SS	15.8757	**Corrected SS**	0.23486667
Coeff Variation	15.0081229	**Std Error Mean**	0.19784955

Basic Statistical Measures

Location		**Variability**	
Mean	2.283333	**Std Deviation**	0.34269
Median	2.200000	**Variance**	0.11743
Mode	.	**Range**	0.67000
		Interquartile Range	0.67000

Tests for Location: Mu0=0

Test	**Statistic**		**p Value**	
Student's t	**t**	11.54076	**Pr > |t|**	0.0074
Sign	**M**	1.5	**Pr >= |M|**	0.2500
Signed Rank	**S**	3	**Pr >= |S|**	0.2500

Quantiles (Definition 5)

Level	**Quantile**
100% Max	2.66
99%	2.66
95%	2.66
90%	2.66
75% Q3	2.66
50% Median	2.20
25% Q1	1.99
10%	1.99
5%	1.99
1%	1.99
0% Min	1.99

Extreme Observations

Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
1.99	30	1.99	30

Extreme Observations

Lowest		Highest	
Value	**Obs**	**Value**	**Obs**
2.20	28	2.20	28
2.66	29	2.66	29

DESCRIPTIVE STATISTICS FOR RESIDUES OF PARENT ANI DEGRADA E IN VARIOUS MATRICES FROM CITRUS

The UNIVARIATE Procedure
Variable: DEGRADATE
SAMPLE=Pollen DAA=0

Moments

N	3	**Sum Weights**	3
Mean	0.03966667	**Sum Observations**	0.119
Std Deviation	0.01096966	**Variance**	0.00012033
Skewness	-1.7320508	**Kurtosis**	.
Uncorrected SS	0.004961	**Corrected SS**	0.00024067
Coeff Variation	27.6545927	**Std Error Mean**	0.00633333

Basic Statistical Measures

Location		Variability	
Mean	0.039667	**Std Deviation**	0.01097
Median	0.046000	**Variance**	0.0001203
Mode	0.046000	**Range**	0.01900
		Interquartile Range	0.01900

Tests for Location: Mu0=0

Test	Statistic		p Value	
Student's t	**t**	6.263158	**Pr > |t|**	0.0246
Sign	**M**	1.5	**Pr >= |M|**	0.2500
Signed Rank	**S**	3	**Pr >= |S|**	0.2500

Quantiles (Definition 5)

Level	Quantile
100% Max	0.046
99%	0.046
95%	0.046
90%	0.046
75% Q3	0.046
50% Median	0.046
25% Q1	0.027
10%	0.027
5%	0.027
1%	0.027

Quantiles (Definition 5)

Level	Quantile
0% Min	0.027

Extreme Observations

Lowest		Highest	
Value	**Obs**	**Value**	**Obs**
0.027	29	0.027	29
0.046	30	0.046	28
0.046	28	0.046	30

DESCRIPTIVE STATISTICS FOR RESIDUES OF PARENT ANI DEGRADA E IN VARIOUS MATRICES FROM CITRUS

The UNIVARIATE Procedure
Variable: PARENT
SAMPLE=Pollen DAA=3

Moments

N	3	**Sum Weights**	3
Mean	0.073	**Sum Observations**	0.219
Std Deviation	0.02022375	**Variance**	0.000409
Skewness	1.50153906	**Kurtosis**	.
Uncorrected SS	0.016805	**Corrected SS**	0.000818
Coeff Variation	27.703765	**Std Error Mean**	0.01167619

Basic Statistical Measures

Location		Variability	
Mean	0.073000	**Std Deviation**	0.02022
Median	0.065000	**Variance**	0.0004090
Mode	.	**Range**	0.03800
		Interquartile Range	0.03800

Tests for Location: Mu0=0

Test	Statistic		p Value	
Student's t	**t**	6.252041	**Pr > |t|**	0.0246
Sign	**M**	1.5	**Pr >= |M|**	0.2500
Signed Rank	**S**	3	**Pr >= |S|**	0.2500

Quantiles (Definition 5)

Level	Quantile
100% Max	0.096
99%	0.096
95%	0.096
90%	0.096
75% Q3	0.096
50% Median	0.065

Quantiles (Definition 5)

Level	Quantile
25% Q1	0.058
10%	0.058
5%	0.058
1%	0.058
0% Min	0.058

Extreme Observations

Lowest		Highest	
Value	**Obs**	**Value**	**Obs**
0.058	31	0.058	31
0.065	33	0.065	33
0.096	32	0.096	32

DESCRIPTIVE STATISTICS FOR RESIDUES OF PARENT AND DEGRADATE IN VARIOUS MATRICES FROM CITRUS

The UNIVARIATE Procedure
Variable: DEGRADATE
SAMPLE=Pollen DAA=3

Moments

N	3	**Sum Weights**	3
Mean	0.02366667	**Sum Observations**	0.071
Std Deviation	0.0046188	**Variance**	0.00002133
Skewness	1.73205081	**Kurtosis**	.
Uncorrected SS	0.001723	**Corrected SS**	0.00004267
Coeff Variation	19.5160654	**Std Error Mean**	0.00266667

Basic Statistical Measures

Location		Variability	
Mean	0.023667	**Std Deviation**	0.00462
Median	0.021000	**Variance**	0.0000213
Mode	0.021000	**Range**	0.00800
		Interquartile Range	0.00800

Tests for Location: Mu0=0

Test	Statistic		p Value	
Student's t	**t**	8.875	**Pr > |t|**	0.0125
Sign	**M**	1.5	**Pr >= |M|**	0.2500
Signed Rank	**S**	3	**Pr >= |S|**	0.2500

Quantiles (Definition 5)

Level	Quantile
100% Max	0.029
99%	0.029

Quantiles (Definition 5)

Level	Quantile
95%	0.029
90%	0.029
75% Q3	0.029
50% Median	0.021
25% Q1	0.021
10%	0.021
5%	0.021
1%	0.021
0% Min	0.021

Extreme Observations

Lowest		Highest	
Value	**Obs**	**Value**	**Obs**
0.021	33	0.021	31
0.021	31	0.021	33
0.029	32	0.029	32

DESCRIPTIVE STATISTICS FOR RESIDUES OF PARENT ANL DEGRADA E IN VARIOUS MATRICES FROM CITRUS

The UNIVARIATE Procedure
Variable: PARENT
SAMPLE=Pollen DAA=6

Moments

N	3	**Sum Weights**	3
Mean	0.038	**Sum Observations**	0.114
Std Deviation	0.011	**Variance**	0.000121
Skewness	0	**Kurtosis**	.
Uncorrected SS	0.004574	**Corrected SS**	0.000242
Coeff Variation	28.9473684	**Std Error Mean**	0.00635085

Basic Statistical Measures

Location		Variability	
Mean	0.038000	**Std Deviation**	0.01100
Median	0.038000	**Variance**	0.0001210
Mode	.	**Range**	0.02200
		Interquartile Range	0.02200

Tests for Location: Mu0=0

Test	Statistic		p Value	
Student's t	**t**	5.983448	**Pr > |t|**	0.0268
Sign	**M**	1.5	**Pr >= |M|**	0.2500
Signed Rank	**S**	3	**Pr >= |S|**	0.2500

Quantiles (Definition 5)

Level	Quantile
100% Max	0.049
99%	0.049
95%	0.049
90%	0.049
75% Q3	0.049
50% Median	0.038
25% Q1	0.027
10%	0.027
5%	0.027
1%	0.027
0% Min	0.027

Extreme Observations

Lowest		Highest	
Value	**Obs**	**Value**	**Obs**
0.027	35	0.027	35
0.038	34	0.038	34
0.049	36	0.049	36

DESCRIPTIVE STATISTICS FOR RESIDUES OF PARENT AND DEGRADA E IN VARIOUS MATRICES FROM CITRUS

The UNIVARIATE Procedure
Variable: DEGRADATE
SAMPLE=Pollen DAA=6

Moments

N	1	**Sum Weights**	1
Mean	0.01	**Sum Observations**	0.01
Std Deviation	.	**Variance**	.
Skewness	.	**Kurtosis**	.
Uncorrected SS	0.0001	**Corrected SS**	0
Coeff Variation	.	**Std Error Mean**	.

Basic Statistical Measures

Location		Variability	
Mean	0.010000	**Std Deviation**	.
Median	0.010000	**Variance**	.
Mode	0.010000	**Range**	0
		Interquartile Range	0

Tests for Location: Mu0=0

Test	Statistic	p Value		
Student's t	**t**	.	**Pr > |t|**	.

Tests for Location: Mu0=0

Test	Statistic		p Value	
Sign	**M**	0.5	**Pr >= |M|**	1.0000
Signed Rank	**S**	0.5	**Pr >= |S|**	1.0000

Quantiles (Definition 5)

Level	Quantile
100% Max	0.01
99%	0.01
95%	0.01
90%	0.01
75% Q3	0.01
50% Median	0.01
25% Q1	0.01
10%	0.01
5%	0.01
1%	0.01
0% Min	0.01

Extreme Observations

Lowest		Highest	
Value	**Obs**	**Value**	**Obs**
0.01	36	0.01	36

Missing Values

Missing Value	Count	Percent Of All Obs	Percent Of Missing Obs
.	2	66.67	100.00