

## Effects of season long application of Seasol on yields of 6<sup>th</sup> leaf almonds,

Shiraz Ranch, Westley, Ca. 2018.

### Introduction:

Improving health and vigor of young trees is very important for the long term profitability of an almond orchard. Season long foliar and/or chemigation applications of Seasol have shown significant improvement in the health, vigor, root growth and overall productivity of different almonds globally.

The objectives of this study were to evaluate the effectiveness of the foliar or chemigation applications of Seasol in increasing tree health and vigor resulting in higher productivity (Yield) of bearing almonds. This is an interim report of the first year of a two-year study initiated in 2018

### Materials and methods

- A. **Location:** The study was conducted in a 60 acre almond orchard owned by Shiraz Ranch, planted in March 2013, near the town of Westley, Stanislaus County, California.
- B. **Varieties:** Varieties included Nonpareil (50%), Monterey (25%) and Aldrich (25%), on a 21 feet between the rows, and 14 feet within the row spacing. Trial was conducted on Non-pareil variety.
- C. **Experimental design:** Randomized Complete Block (RCB) design with 6 replicates. Each replicate consisted of 5 trees, for total 30 trees per treatment.
- D. **Applications:**  
All the application information, including the application equipment, and timings, application type, weather information at each application, etc. are shown as ARM print-out attached to this report.
- i. Foliar application:
    - PTO-driven Airblast sprayer, custom made by Rears for research with one 50 and two 25 gallons tanks.
    - 6 nozzles per side with a total of 12 Nozzles
    - Spray pressure at 95 PSI.
    - Coverage consistent with commercial applications @ 125 gal/acre.
  - ii. Soil applications: Soil application were made using the same equipment with a herbicide boom with 4 nozzles covering 6 feet on each side of the tree. Seasol was applied in 196 gallons of water per acre as stripe spray to the wet ground. Regular Irrigation followed immediately after the completion of the Seasol application.
- E. **Treatments:**
1. Untreated
  2. Seasol @ 2 pints per acre at various times
  3. Seasol @ 2 pints per acre at various times
  4. Acadian @ 3 pints per acre at various times

\* See application information for application timings. All treatments including the untreated received the normal grower standard foliar and soil fertility program. No other bio-stimulant were applied to any of the experimental trees.

#### F. Evaluation:

- G. At the normal harvest time, after the nuts were shaken to the ground, all the crop, including hulls, some debris, nut meat and shells, from the 5 Non-Pariel trees in each plot were picked up using a commercial harvesting equipment. A research size reservoir cart, equipped with digital scale, was used to collect the material picked up by the harvester, weighed, and dropped on the ground. Gross field weight, which included hulls, in-shell almonds, some soil, and debris were recorded separately for each 5-tree replicate. In addition, a 1000-gram grab sample was taken from each plot, representing the harvested material, and brought to the lab for crack-out and other measurements and calculations. Weights of hull, debris, in-shell nuts, meats, almond shells and number of nuts in the 1000 grams grab samples were recorded separately for each replicate. This evaluation provided the crack-out data to be used in combination with the gross field weights for yield per acre calculations for each replicate. ARM print-out as well as Excel sheets for all the field data and grab samples are attached to this report.
- H. Statistical Analysis: Raw data were entered into an ARM (Agricultural Research Manager) program. Analysis of Variance with Multiple Range Test using Tukey's at  $P=0.1$  was used for the analysis of the data.
- I. Study Directors: Alick Osborne, Nanette Simonian, Carolyne Kay.
- J. Investigator: Barat Bisabri, Ph.D., Bisabri Ag. Research and Consulting.

### Results and Discussion

Analysis of Variance mean tables using Tukey's Mean Separation Test at  $P=0.10$  are shown in ARM print-out, attached. The key yield data in pounds per acre are shown in columns 12 of the ARM print-out.

- There full program of Seasol (trt. 2) resulted in 285.3 pounds of yield increase compared to the untreated check, and this difference was statistically significant at  $P=0.1$  level.
- The reduced application program (Trt.3) resulted in 109.6 pounds of yield increase compared to the untreated check, and this difference was not statistically significant at  $P=0.1$  level. respectively.

These results, even though represents only a one-year study, at only one location, are very encouraging for the utility of Seasol in almonds. This study will continue in 2019 with potential modifications to the application timings based on the learnings reported here.

# Application Information

## Bisabri Ag. Research and Consulting

### 2018 Almonds Biostimulant Earthsol

Trial ID: Earthsol 2018 almonds Westley	Location: Trial Year:2018
Protocol ID: Earthsol 2018 almonds	Investigator: Barat Bisabri
Project ID:	Study Director:
	Sponsor Contact:

Trt No.	Type	Treatment Name	Description	Rate	Rate Unit	Growth Stage	Appl Code	Appl Description	Comment 1
1		Untreated	WHITE						
2	BIOSTIM	Seasol	RED	2	QT/A		A	Full Bloom/Petal fall	
	ADJ	AdMax 90	RED	16	FL OZ/A		A	Full Bloom/Petal fall	
	BIOSTIM	Seasol	RED	2	QT/A		B	4 weeks post PF	
	ADJ	AdMax 90	RED	16	FL OZ/A		B	4 weeks post PF	
	BIOSTIM	Seasol	RED	2	QT/A		D	Hull Split	
	ADJ	AdMax 90	RED	16	FL OZ/A		D	Hull Split	
	BIOSTIM	Seasol	RED	2	QT/A		F	Petal Fall--Soil applied	
	BIOSTIM	Seasol	RED	2	QT/A		G	3 weeks post PF- Soil	
	BIOSTIM	Seasol	RED	2	QT/A		E	Post Harvest	
3	BIOSTIM	Seasol	BLUE	2	QT/A		A	Full Bloom/Petal fall	
	ADJ	AdMax 90	BLUE	16	FL OZ/A		A	Full Bloom/Petal fall	
	BIOSTIM	Seasol	BLUE	2	QT/A		B	4 weeks post PF	
	ADJ	AdMax 90	BLUE	16	FL OZ/A		B	4 weeks post PF	
	BIOSTIM	Seasol	BLUE	2	QT/A		D	Hull Split	
	ADJ	AdMax 90	BLUE	16	FL OZ/A		D	Hull Split	
	BIOSTIM	Seasol	BLUE	2	QT/A		G	3 weeks post PF	
	BIOSTIM	Seasol	BLUE	2	QT/A		E	Post Harvest	
4	BIOSTIM	Acadian	YELLOW	3	PT/A		A	Full Bloom/PF	
	ADJ	AdMax 90	YELLOW	16	FL OZ/A		A	Full Bloom/PF	
	BIOSTIM	Acadian	YELLOW	3	PT/A		B	4 weeks post PF	
	ADJ	AdMax 90	YELLOW	16	FL OZ/A		B	4 weeks post PF	
	BIOSTIM	Acadian	YELLOW	3	PT/A		C	May Spray	
	ADJ	AdMax 90	YELLOW	16	FL OZ/A		C	May Spray	
	BIOSTIM	Acadian	YELLOW	3	PT/A		D	Hull Split	
	ADJ	AdMax 90	YELLOW	16	FL OZ/A		D	Hull Split	
	BIOSTIM	Acadian	YELLOW	3	PT/A		E	Post Harvest	
	ADJ	AdMax 90	YELLOW	16	FL OZ/A		E	Post harvest	

Replications: 6, Untreated treatments: 1, Design: Randomized Complete Block (RCB), Treatment units: US standard, Treated 'Plot' experimental unit size Width: 21 feet, Treated 'Plot' experimental unit size Length: 70 feet, Application volume: 100 GAL/AC, Mix size: 25 GAL, Format definitions: G-All7.def, G-All7.frm

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Treatment Name	Form Conc	Form Unit	Form Type	Lot Code
5,233.895	mL	Seasol			L	
1,301.234	mL	AdMax 90			L	
1,774.410	mL	Acadian			L	

\* 'Per area' calculations based on spray volume= 100,196 GAL/AC, mix size= 25,50 GAL (mix size basis).

# Bisabri Ag. Research and Consulting

## 2018 Almonds Biostimulant Earthsol

Trial ID: Earthsol 2018 almonds Westley	Location: Trial Year: 2018
Protocol ID: Earthsol 2018 almonds	Investigator: Barat Bisabri
Project ID:	Study Director:
	Sponsor Contact:

### General Trial Information

Investigator: Barat Bisabri

Trial Status: E established

Conducted Under GLP: No

Conducted Under GEP: No

Investigator: Barat Bisabri

### Site and Design

Treated Plot Width: 21 FT

Treated Plot Length: 70 FT

Treated Plot Area: 1470 FT<sup>2</sup>      Treatments: 4

Replications: 6

Study Design: RACOBL Randomized Complete Block (RCB)

### Application Description

	A	B	C	D	E	F	G
<b>Application Date:</b>	Mar-8-2018	Mar-29-2018	May-15-2018	Jun-29-2018	Oct-9-2018	Mar-9-2018	Mar-21-2018
<b>Appl. Start Time:</b>	9:30 AM	7:00 AM	9:00 AM	8:00 AM	8:00 AM	9:00 AM	9:00 AM
<b>Appl. Stop Time:</b>	9:30 AM	9:30 AM	12:00 PM	10:00 AM	7:00 AM	10:00 AM	10:00 AM
<b>Application Method:</b>	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	IRRSPR	IRRSPR
<b>Application Timing:</b>	ATPEFA	4 W PPF	MAYSPRAY	HULLSPLIT		ATPEFA	3 W PPF
<b>Application Placement:</b>	FOLIAR	FOLIAR	FOLIAR	FOLIAR	FOLIAR	SOIL	SOIL
<b>Applied By:</b>	B.Bisabri	B.Bisabri	B.Bisabri	B.Bisabri	B.Bisabri	B.Bisabri	B.Bisabri
<b>Air Temperature, Unit:</b>	68 F	66 F	68 F	76 F	68 F	67 F	69 F
<b>% Relative Humidity:</b>	50	30	25	15	30	30	20
<b>Wind Velocity, Unit:</b>	3 MPH	2 MPH	2 MPH	2 MPH	2 MPH	1 MPH	2 MPH
<b>Wind Direction:</b>	N	N	N	NW	NW	N	N
<b>% Cloud Cover:</b>	10	0	0	0	20	0	0

## Bisabri Ag. Research and Consulting

Application Equipment					
	A	B	C	D	E
Equipment Type:	AIBLSP	AIBLSP	AIBLSP	AIBLSP	AIBLSP
Operation Pressure, Unit:	80 PSI	80 PSI	80 PSI	80 PSI	80 PSI
Nozzle Type:					
Nozzle Size:					
Nozzle Spacing, Unit:					
Band Width, Unit:					
% Coverage:	100.0	100.0	100.0	100.0	100.0
Boom Length, Unit:					
Boom Height, Unit:					
Ground Speed, Unit:					
Carrier:	WATER	WATER	WATER	WATER	WATER
Spray Volume, Unit:	100 GAL/AC	100 GAL/AC	100 GAL/AC	100 GAL/AC	100 GAL/AC
Mix Overage, Unit:	0 mL	0 mL	0 mL	0 mL	0 mL
Mix Size, Unit:	25 GAL	25 GAL	25 GAL	25 GAL	25 GAL
	F	G			
Equipment Type:	TRMOSP	TRMOSP			
Operation Pressure, Unit:	30 PSI	30 PSI			
Nozzle Type:	Tee-Jet	Tee-Jet			
Nozzle Size:	8010	8010			
Nozzle Spacing, Unit:	12 IN	12 IN			
Band Width, Unit:	6 FT	6 FT			
% Coverage:	100.0	100.0			
Boom Length, Unit:	6 FT	6 FT			
Boom Height, Unit:	12 IN	12 IN			
Ground Speed, Unit:	3 MPH	3 MPH			
Carrier:	WATER	WATER			
Spray Volume, Unit:	196 GAL/AC	196 GAL/AC			
Mix Overage, Unit:		0 mL			
Mix Size, Unit:	50 GAL	50 GAL			

Date	By	Notes
Nov-21-2018	Barat Bisab	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
Nov-21-2018	Barat Bisab	Automatically added by ARM: Trial Status updated to 'E' when Rating Date entered.

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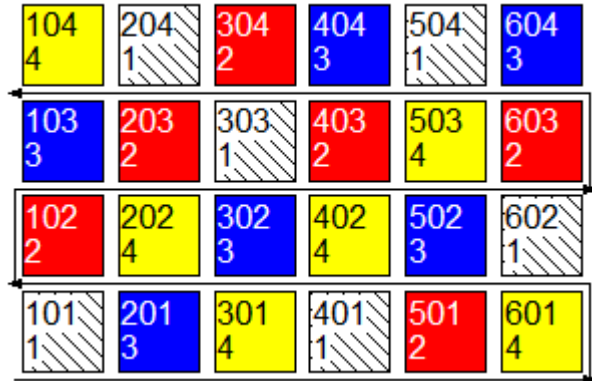
## 2018 Almonds Biostimulant Earthsol

Trial ID: Earthsol 2018 almonds  
 Westley  
 Protocol ID: Earthsol 2018 almonds  
 Project ID:

Location: Trial Year: 2018  
 Investigator: Barat Bisabri  
 Study Director:  
 Sponsor Contact:

**Trial Map Treatment Description**

Trt	Code	Description
1	CHK	Untreated
2		Seasol 2 QT/A;AdMax 90 16 FL OZ/A;Seasol 2 QT/A;AdMax 90 16 FL OZ/A;Seasol 2 QT/
3		Seasol 2 QT/A;AdMax 90 16 FL OZ/A;Seasol 2 QT/A;AdMax 90 16 FL OZ/A;Seasol 2 QT/
4		Acadian 3 PT/A;AdMax 90 16 FL OZ/A;Acadian 3 PT/A;AdMax 90 16 FL OZ/A;Acadian 3



# Yield Data

## Bisabri Ag. Research and Consulting

### 2018 Almonds Biostimulant Earthsol

Trial ID: Earthsol 2018 almonds Location: Westley Trial Year: 2018  
 Protocol ID: Earthsol 2018 almonds Investigator: Barat Bisabri

Crop Code	PRNDU	PRNDU	PRNDU
BBCH Scale	BSTO	BSTO	BSTO
Crop Scientific Name	Prunus dulcis	Prunus dulcis	Prunus dulcis
Crop Name	Sweet almond	Sweet almond	Sweet almond
Crop Variety	Non-Pareil	Non-Pareil	Non-Pareil
Description	Plot Weight	Subsample Wt	Subsample Wt
Part Rated	TREE -	NUT -	Trash -
Rating Date	Aug-22-2018	Aug-22-2018	Aug-22-2018
Rating Type	GROSS WT	GROSS WT	GROSS WT
Rating Unit	LBS/PLOT	g	g
Number of Subsamples	1	1	1
Assessed By	B.Bisabri	B.Bisabri	B.Bisabri
Rating Timing	H1	H1	H1
Days After First/Last Applic.	167 54	167 54	167 54
Trt-Eval Interval	54 DA-D	54 DA-D	54 DA-D
Trt Treatment	Rate	Other	Other
No. Name	Description	Rate	Rate
1 Untreated WHITE			
2	Seasol RED	2QT/A	A
	AdMax 90 RED	16FL OZ/A	A
	Seasol RED	2QT/A	B
	AdMax 90 RED	16FL OZ/A	B
	Seasol RED	2QT/A	D
	AdMax 90 RED	16FL OZ/A	D
	Seasol RED	2QT/A	F
	Seasol RED	2QT/A	G
	Seasol RED	2QT/A	E
3	Seasol BLUE	2QT/A	A
	AdMax 90 BLUE	16FL OZ/A	A
	Seasol BLUE	2QT/A	B
	AdMax 90 BLUE	16FL OZ/A	B
	Seasol BLUE	2QT/A	D
	AdMax 90 BLUE	16FL OZ/A	D
	Seasol BLUE	2QT/A	G
	Seasol BLUE	2QT/A	E
4	Acadian YELLOW	3PT/A	A
	AdMax 90 YELLOW	16FL OZ/A	A
	Acadian YELLOW	3PT/A	B
	AdMax 90 YELLOW	16FL OZ/A	B
	Acadian YELLOW	3PT/A	C
	AdMax 90 YELLOW	16FL OZ/A	C
	Acadian YELLOW	3PT/A	D
	AdMax 90 YELLOW	16FL OZ/A	D
	Acadian YELLOW	3PT/A	E
	AdMax 90 YELLOW	16FL OZ/A	E
Tukey's HSD P=.10	45.51	.	52.74
Standard Deviation	31.49	0.00	36.49
CV	8.83	0.0	33.1
Bartlett's X2	2.807	0.00	1.865
P(Bartlett's X2)	0.422	.	0.601
Skewness	0.1997	.	-0.4009
Kurtosis	-0.6664	.	-1.0837
Replicate F	0.536	0.000	1.906
Replicate Prob(F)	0.7461	1.0000	0.1531
Treatment F	0.676	0.000	0.267
Treatment Prob(F)	0.5800	1.0000	0.8478

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD).  
 Could not calculate Tukey's HSD (% mean diff) for columns 2 because error mean square = 0.

## Bisabri Ag. Research and Consulting

Crop Code				PRNDU		PRNDU		PRNDU
BBCH Scale				BSTO		BSTO		BSTO
Crop Scientific Name				Prunus dulcis		Prunus dulcis		Prunus dulcis
Crop Name				Sweet almond		Sweet almond		Sweet almond
Crop Variety				Non-Pareil		Non-Pareil		Non-Pareil
Description				Subsample		Subsample		Subsample
Part Rated				Hull -		NUT -		NUT -
Rating Date				Aug-22-2018		Aug-22-2018		Aug-22-2018
Rating Type				HULL WT		IN-SHELL		SHELL WT
Rating Unit				g		g		g
Number of Subsamples				1		1		1
Assessed By				B.Bisabri		B.Bisabri		B.Bisabri
Rating Timing				H1		H1		H1
Days After First/Last Applic.				167 54		167 54		167 54
Trt-Eval Interval				54 DA-D		54 DA-D		54 DA-D
Trt Treatment		Rate	Other	Other	Appl	Comment		
No. Name	Description	Rate Unit	Rate	Rate Unit	Code	1	4	5
1	Untreated WHITE						505.5-	378.2-
2	Seasol RED	2QT/A		A			511.3-	387.7-
	AdMax 90 RED	16FL OZ/A		A				127.3-
	Seasol RED	2QT/A		B				
	AdMax 90 RED	16FL OZ/A		B				
	Seasol RED	2QT/A		D				
	AdMax 90 RED	16FL OZ/A		D				
	Seasol RED	2QT/A		F				
	Seasol RED	2QT/A		G				
	Seasol RED	2QT/A		E				
3	Seasol BLUE	2QT/A		A			508.7-	381.5-
	AdMax 90 BLUE	16FL OZ/A		A				126.3-
	Seasol BLUE	2QT/A		B				
	AdMax 90 BLUE	16FL OZ/A		B				
	Seasol BLUE	2QT/A		D				
	AdMax 90 BLUE	16FL OZ/A		D				
	Seasol BLUE	2QT/A		G				
	Seasol BLUE	2QT/A		E				
4	Acadian YELLOW	3PT/A		A			497.2-	383.7-
	AdMax 90 YELLOW	16FL OZ/A		A				134.0-
	Acadian YELLOW	3PT/A		B				
	AdMax 90 YELLOW	16FL OZ/A		B				
	Acadian YELLOW	3PT/A		C				
	AdMax 90 YELLOW	16FL OZ/A		C				
	Acadian YELLOW	3PT/A		D				
	AdMax 90 YELLOW	16FL OZ/A		D				
	Acadian YELLOW	3PT/A		E				
	AdMax 90 YELLOW	16FL OZ/A		E				
Tukey's HSD P=.10							27.56	46.84
Standard Deviation							19.07	32.40
CV							3.77	8.47
Bartlett's X2							3.704	1.60
P(Bartlett's X2)							0.295	0.659
Skewness							-0.2209	1.0547*
Kurtosis							0.3681	0.7968
Replicate F							3.450	1.361
Replicate Prob(F)							0.0284	0.2933
Treatment F							0.624	0.091
Treatment Prob(F)							0.6107	0.9641

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD).  
 Could not calculate Tukey's HSD (% mean diff) for columns 2 because error mean square = 0.



## Bisabri Ag. Research and Consulting

					PRNDU	PRNDU	PRNDU
					BSTO	BSTO	BSTO
					Prunus dulcis	Prunus dulcis	Prunus dulcis
					Sweet almond	Sweet almond	Sweet almond
					Non-Pareil	Non-Pareil	Non-Pareil
					Subsample	Subsample	Subsample
					NUT -	NUT -	NUT -
					Aug-22-2018	Aug-22-2018	Aug-22-2018
					NUT MEAT WT	NUT COUNT	% CRACK-OUT
					g	NUMBER	%
					1	1	1
					B.Bisabri	B.Bisabri	B.Bisabri
					H1	H1	H1
					167 54	167 54	167 54
					54 DA-D	54 DA-D	54 DA-D
Trt Treatment	Rate	Other	Other	Appl Comment			
No. Name	Description	Rate	Unit	Rate Rate Unit Code 1	7	8	9
1	Untreated WHITE				246.7-	209.7-	0.247-
2	Seasol RED	2QT/A		A	262.0-	215.2-	0.263-
	AdMax 90 RED	16FL OZ/A		A			
	Seasol RED	2QT/A		B			
	AdMax 90 RED	16FL OZ/A		B			
	Seasol RED	2QT/A		D			
	AdMax 90 RED	16FL OZ/A		D			
	Seasol RED	2QT/A		F			
	Seasol RED	2QT/A		G			
	Seasol RED	2QT/A		E			
3	Seasol BLUE	2QT/A		A	255.2-	209.5-	0.255-
	AdMax 90 BLUE	16FL OZ/A		A			
	Seasol BLUE	2QT/A		B			
	AdMax 90 BLUE	16FL OZ/A		B			
	Seasol BLUE	2QT/A		D			
	AdMax 90 BLUE	16FL OZ/A		D			
	Seasol BLUE	2QT/A		G			
	Seasol BLUE	2QT/A		E			
4	Acadian YELLOW	3PT/A		A	249.7-	210.3-	0.248-
	AdMax 90 YELLOW	16FL OZ/A		A			
	Acadian YELLOW	3PT/A		B			
	AdMax 90 YELLOW	16FL OZ/A		B			
	Acadian YELLOW	3PT/A		C			
	AdMax 90 YELLOW	16FL OZ/A		C			
	Acadian YELLOW	3PT/A		D			
	AdMax 90 YELLOW	16FL OZ/A		D			
	Acadian YELLOW	3PT/A		E			
	AdMax 90 YELLOW	16FL OZ/A		E			
Tukey's HSD P=.10					22.28	21.39	0.0212
Standard Deviation					15.42	14.80	0.0146
CV					6.08	7.01	5.78
Bartlett's X2					1.287	0.904	1.006
P(Bartlett's X2)					0.732	0.824	0.80
Skewness					0.2428	0.7079	0.42
Kurtosis					-0.2749	0.0474	0.075
Replicate F					4.002	6.428	4.368
Replicate Prob(F)					0.0166	0.0022	0.0118
Treatment F					1.147	0.198	1.606
Treatment Prob(F)					0.3621	0.8958	0.2298

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD).  
 Could not calculate Tukey's HSD (% mean diff) for columns 2 because error mean square = 0.

## Bisabri Ag. Research and Consulting

Crop Code			PRNDU		PRNDU		PRNDU
BBCH Scale			BSTO		BSTO		BSTO
Crop Scientific Name			Prunus dulcis		Prunus dulcis		Prunus dulcis
Crop Name			Sweet almond		Sweet almond		Sweet almond
Crop Variety			Non-Pareil		Non-Pareil		Non-Pareil
Description			PLOT		PLOT		Subsample
Part Rated			NUT -		NUT -		NUT -
Rating Date			Aug-22-2018		Aug-22-2018		Aug-22-2018
Rating Type			MEAT/TREE		MEAT/ACRE		NUT SIZE
Rating Unit			LB		LB		NUMBER
Number of Subsamples			1		1		1
Assessed By			B.Bisabri		B.Bisabri		B.Bisabri
Rating Timing			H1		H1		H1
Days After First/Last Applic.			167 54		167 54		167 54
Trt-Eval Interval			54 DA-D		54 DA-D		54 DA-D
Trt Treatment		Rate	Other	Other	Appl	Comment	
No. Name	Description	Rate Unit	Rate	Rate Unit	Code	1	
1	Untreated WHITE					10	
2	Seasol RED	2QT/A			A	17.00-	2516.7b
	AdMax 90 RED	16FL OZ/A			A	18.90-	2802.8a
	Seasol RED	2QT/A			B		
	AdMax 90 RED	16FL OZ/A			B		
	Seasol RED	2QT/A			D		
	AdMax 90 RED	16FL OZ/A			D		
	Seasol RED	2QT/A			F		
	Seasol RED	2QT/A			G		
	Seasol RED	2QT/A			E		
3	Seasol BLUE	2QT/A			A	17.73-	2626.3ab
	AdMax 90 BLUE	16FL OZ/A			A		
	Seasol BLUE	2QT/A			B		
	AdMax 90 BLUE	16FL OZ/A			B		
	Seasol BLUE	2QT/A			D		
	AdMax 90 BLUE	16FL OZ/A			D		
	Seasol BLUE	2QT/A			G		
	Seasol BLUE	2QT/A			E		
4	Acadian YELLOW	3PT/A			A	18.45-	2733.2ab
	AdMax 90 YELLOW	16FL OZ/A			A		
	Acadian YELLOW	3PT/A			B		
	AdMax 90 YELLOW	16FL OZ/A			B		
	Acadian YELLOW	3PT/A			C		
	AdMax 90 YELLOW	16FL OZ/A			C		
	Acadian YELLOW	3PT/A			D		
	AdMax 90 YELLOW	16FL OZ/A			D		
	Acadian YELLOW	3PT/A			E		
	AdMax 90 YELLOW	16FL OZ/A			E		
Tukey's HSD P=.10						1.922	284.41
Standard Deviation						1.330	196.77
CV						7.38	7.37
Bartlett's X2						15.583	15.605
P(Bartlett's X2)						0.001*	0.001*
Skewness						0.5637	0.5556
Kurtosis						-0.1896	-0.2345
Replicate F						1.546	1.515
Replicate Prob(F)						0.2349	0.2437
Treatment F						2.354	2.430
Treatment Prob(F)						0.1132	0.1055

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD).  
 Could not calculate Tukey's HSD (% mean diff) for columns 2 because error mean square = 0.

