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UNIANOVA Bamboo BY Location Gender
  /METHOD=SSTYPE(3)
  /INTERCEPT=INCLUDE
  /POSTHOC=Location(BONFERRONI)
  /PRINT=DESCRIPTIVE HOMOGENEITY
  /CRITERIA=ALPHA(.05)
  /DESIGN=Location Gender Location*Gender.

```

Univariate Analysis of Variance

Between-Subjects Factors

		Value Label	N
Location	1.00	China	5
	2.00	San Diego	5
	3.00	Wash DC	5
	4.00	Atlanta	5
Gender	1.00	male	10
	2.00	female	10

Descriptive Statistics

Dependent Variable: Bamboo

Location	Gender	Mean	Std. Deviation	N
China	male	6.0000	.	1
	female	6.5000	2.38048	4
	Total	6.4000	2.07364	5
San Diego	male	9.6667	.57735	3
	female	10.0000	2.82843	2
	Total	9.8000	1.48324	5
Wash DC	male	11.2500	2.21736	4
	female	14.0000	.	1
	Total	11.8000	2.28035	5
Atlanta	male	10.0000	.00000	2
	female	8.6667	3.05505	3
	Total	9.2000	2.28035	5
Total	male	10.0000	2.05480	10
	female	8.6000	3.23866	10
	Total	9.3000	2.73573	20

Levene's Test of Equality of Error Variances^a

Dependent Variable: Bamboo

F	df1	df2	Sig.
3.511	7	12	.027

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Location + Gender + Location * Gender

Tests of Between-Subjects Effects

Dependent Variable: Bamboo

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	83.117 ^a	7	11.874	2.412	.086
Intercept	1389.282	1	1389.282	282.167	.000
Location	65.707	3	21.902	4.448	.025
Gender	1.215	1	1.215	.247	.628
Location * Gender	8.027	3	2.676	.543	.662
Error	59.083	12	4.924		
Total	1872.000	20			
Corrected Total	142.200	19			

a. R Squared = .585 (Adjusted R Squared = .342)

Post Hoc Tests

Location

Multiple Comparisons

Dependent Variable: Bamboo

Bonferroni

(I) Location	(J) Location	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
China	San Diego	-3.4000	1.40337	.193	-7.8244	1.0244
	Wash DC	-5.4000*	1.40337	.014	-9.8244	-.9756
	Atlanta	-2.8000	1.40337	.415	-7.2244	1.6244
San Diego	China	3.4000	1.40337	.193	-1.0244	7.8244
	Wash DC	-2.0000	1.40337	1.000	-6.4244	2.4244
	Atlanta	.6000	1.40337	1.000	-3.8244	5.0244
Wash DC	China	5.4000*	1.40337	.014	.9756	9.8244
	San Diego	2.0000	1.40337	1.000	-2.4244	6.4244
	Atlanta	2.6000	1.40337	.532	-1.8244	7.0244
Atlanta	China	2.8000	1.40337	.415	-1.6244	7.2244
	San Diego	-.6000	1.40337	1.000	-5.0244	3.8244
	Wash DC	-2.6000	1.40337	.532	-7.0244	1.8244

Based on observed means.

The error term is Mean Square(Error) = 4.924.

*. The mean difference is significant at the .05 level.