

HASIL ANALISIS SPSS ANOVA TWO WAY

Univariate Analysis of Variance

Notes

Output Created	30-MAY-2019 08:53:17	
Comments		
Input	Active Dataset	DataSet0
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	27
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
Syntax	<pre> UNIANOVA Hasil BY Hari Group /METHOD=SSTYPE(3) /INTERCEPT=INCLUDE /POSTHOC=Group(TUKEY) /PLOT=PROFILE(Hari* Group) /EMMEANS=TABLES(Hari) /EMMEANS=TABLES(Group) /EMMEANS=TABLES(Hari*Group) /PRINT=DESCRIPTIVE HOMOGENEITY /CRITERIA=ALPHA(.05) /DESIGN=Hari Group Hari*Group. </pre>	
Resources	Processor Time	00:00:00.31
	Elapsed Time	00:00:00.34

Between-Subjects Factors

		Value Label	N
Lama Hari	1	7 hari	9
	2	14 hari	9
	3	21 hari	9
Formula	1	mol bonggol pisang 300 ml	9
	2	mol bonggol pisang 600 ml	9
	3	mol bonggol pisang 900 ml	9

Descriptive Statistics

Dependent Variable: Volume Gas Metana

Lama Hari	Formula	Mean	Std. Deviation	N
7 hari	mol bonggol pisang 300 ml	.43500	.098489	3
	mol bonggol pisang 600 ml	.54500	.176706	3
	mol bonggol pisang 900 ml	.66500	.243772	3
	Total	.54833	.187116	9
14 hari	mol bonggol pisang 300 ml	.46000	.119059	3
	mol bonggol pisang 600 ml	.58833	.203613	3
	mol bonggol pisang 900 ml	.70333	.246644	3
	Total	.58389	.200574	9
21 hari	mol bonggol pisang 300 ml	.47833	.124733	3
	mol bonggol pisang 600 ml	.60333	.212211	3
	mol bonggol pisang 900 ml	.73333	.246644	3
	Total	.60500	.206277	9
Total	mol bonggol pisang 300 ml	.45778	.101060	9
	mol bonggol pisang 600 ml	.57889	.173544	9
	mol bonggol pisang 900 ml	.70056	.214832	9
	Total	.57907	.191864	27

Levene's Test of Equality of Error Variances^a

Dependent Variable: Volume Gas Metana

F	df1	df2	Sig.
1.317	8	18	.297

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

a. Design: Intercept + Hari + Group + Hari * Group

Tests of Between-Subjects Effects

Dependent Variable: Volume Gas Metana

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	.281 ^a	8	.035	.933	.514
Intercept	9.054	1	9.054	240.906	.000
Hari	.015	2	.007	.196	.823
Group	.265	2	.133	3.529	.051
Hari * Group	.001	4	.000	.004	1.000
Error	.676	18	.038		
Total	10.011	27			
Corrected Total	.957	26			

a. R Squared = .293 (Adjusted R Squared = -.021)

Estimated Marginal Means

1. Lama Hari

Dependent Variable: Volume Gas Metana

Lama Hari	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
7 hari	.548	.065	.413	.684
14 hari	.584	.065	.448	.720
21 hari	.605	.065	.469	.741

2. Formula

Dependent Variable: Volume Gas Metana

Formula	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
mol bonggol pisang 300 ml	.458	.065	.322	.594
mol bonggol pisang 600 ml	.579	.065	.443	.715
mol bonggol pisang 900 ml	.701	.065	.565	.836

3. Lama Hari * Formula

Dependent Variable: Volume Gas Metana

Lama Hari	Formula	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
7 hari	mol bonggol pisang 300 ml	.435	.112	.200	.670
	mol bonggol pisang 600 ml	.545	.112	.310	.780
	mol bonggol pisang 900 ml	.665	.112	.430	.900
14 hari	mol bonggol pisang 300 ml	.460	.112	.225	.695
	mol bonggol pisang 600 ml	.588	.112	.353	.823
	mol bonggol pisang 900 ml	.703	.112	.468	.938
21 hari	mol bonggol pisang 300 ml	.478	.112	.243	.713
	mol bonggol pisang 600 ml	.603	.112	.368	.838
	mol bonggol pisang 900 ml	.733	.112	.498	.968

Post Hoc Tests

Formula

Multiple Comparisons

Dependent Variable: Volume Gas Metana

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval Lower Bound	Upper Bound
mol bonggol pisang 300 ml	mol bonggol pisang 600 ml	-.12111	.091387	.400	-.35435	.11212
	mol bonggol pisang 900 ml	-.24278*	.091387	.041	-.47601	-.00954
mol bonggol pisang 600 ml	mol bonggol pisang 300 ml	.12111	.091387	.400	-.11212	.35435
	mol bonggol pisang 900 ml	-.12167	.091387	.397	-.35490	.11157

mol pisang 900 ml	bonggol pisang 300 ml	.24278*	.091387	.041	.00954	.47601
	mol pisang 600 ml	.12167	.091387	.397	-.11157	.35490

Based on observed means.

The error term is Mean Square(Error) = .038.

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

Homogeneous Subsets

Volume Gas Metana

Tukey HSD^{a,b}

Formula	N	Subset	
		1	2
mol pisang 300 ml	9	.45778	
mol pisang 600 ml	9	.57889	.57889
mol pisang 900 ml	9		.70056
Sig.		.400	.397

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .038.

a. Uses Harmonic Mean Sample Size = 9.000.

b. Alpha = .05.

Profile Plots

Estimated Marginal Means of Volume Gas Metana

