

Gyilling Data Management, Inc.

Trial ID: Uniformity2019	Location:	Trial Year: 2019
Protocol ID:	Investigator: Peter Claussen	
Project ID:	Study Director:	
	Sponsor Contact:	

Description	Bullseye	Angle	Score
Number of Subsamples	3	3	1
Data Entry Date	Mar-29-2019	Mar-29-2019	Mar-29-2019
Trt No.	1*	2*	3*
Treatment Name			
1 Red	10.31 -	0.26 -	11.01 -
2 Blue	8.27 -	0.88 -	20.30 -
LSD P=.10 (% mean diff)	2.738 (33%)	2.068 (1240%)	16.760 (89%)
Standard Deviation	3.150	2.379	19.286
CV	37.28	1427.54	102.78
Grand Mean	8.451	0.167	18.765
Levene's F	0.014	0.614	0.128
Levene's Prob(F)	0.909	0.446	0.725
Friedman's X2	1.6	3.6	0.4
P(Friedman's X2)	0.206	0.058	0.527
Skewness	0.8375	0.024	2.0917*
Kurtosis	0.381	-0.4198	5.543*
Minimum Replicates (power = 80)	31	99	55
Largest Mean Difference (% mean diff)	2.048 (24%)	0.619 (370%)	9.286 (49%)

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).

* Adjusted means

For a useful analysis of future trials, trial Error DF should be ≥ 12 .

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Randomized Complete Block (RCB) Least square estimation AOV For Bullseye 3 Mar-29-2019 (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	16	272.653595 [^]			
Replicate	9	212.280952	23.586772	2.377	0.1521
Treatment	1	0.825023	0.825023	0.083	0.7828
Treatment Type III	1	14.674603	14.674603	1.479	0.2697
Error	6	59.547619	9.924603		
Error(adj)	6		9.924603		

[^] Total Sum of Squares may not equal Sum of Squares reported on this table because adjusted sum of squares are reported.

Randomized Complete Block (RCB) Least square estimation AOV For Angle 3 Mar-29-2019 (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	16	261.722222 [^]			
Replicate	9	215.284524	23.920503	4.226	0.0467
Treatment	1	12.473413	12.473413	2.204	0.1882
Treatment Type III	1	1.341270	1.341270	0.237	0.6437
Error	6	33.964286	5.660714		
Error(adj)	6		5.660714		

[^] Total Sum of Squares may not equal Sum of Squares reported on this table because adjusted sum of squares are reported.

Randomized Complete Block (RCB) Least square estimation AOV For Score 1 Mar-29-2019 (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	16	5325.058824 [^]			
Replicate	9	3036.100000	337.344444	0.907	0.5705
Treatment	1	57.244538	57.244538	0.154	0.7084
Treatment Type III	1	301.785714	301.785714	0.811	0.4024
Error	6	2231.714286	371.952381		
Error(adj)	6		371.952381		

[^] Total Sum of Squares may not equal Sum of Squares reported on this table because adjusted sum of squares are reported.