

Guineapig	Control	Histamine
Female	6.4	8.4
	6.2	10.2
	6.9	6.2
	6.9	5.4
	5.4	5.5
	7.5	7.3
	6.1	5.2
	7.3	5.1
	5.9	5.7
	6.8	9.8
Male	4.3	7.5
	7.5	6.7
	5.2	5.7
	4.9	4.9
	5.7	6.8
	4.3	6.6
	6.4	6.9
	6.2	11.8
	5	6.7
	5	9

**Anova: Two-Factor With Replication**

SUMMARY	Control	Histamine	Total
<b>Female</b>			
Count	10	10	20
Average	6.54	6.88	6.71
Variance	0.43	3.78	2.022
<b>Male</b>			
Count	10	10	20
Average	5.45	7.26	6.355
Variance	1.02	3.68	3.09
<b>Total</b>			
Count	20	20	
Average	5.995	7.07	
Variance	1	3.57	

**ANOVA table**

Source of Variation	SS	df	MS	F	P-value	F crit
Sample	1.26025	1	1.26025	0.5664823	0.456554	4.113165
Columns	11.55625	1	11.55625	5.1945336	0.028689	4.113165
Interaction	5.40225	1	5.40225	2.428311	0.12791	4.113165
Within	80.089	36	2.224694			
<b>Total</b>	<b>98.30775</b>	<b>39</b>				