

PMC Gage Variation Study Worksheet (Long Method)

	1	2	3	4	5	6	7	8	9	10	11	12	
Operator	A				B				C				
Sample #	Trial 1	Trial 2	Trial 3	Range	Trial 1	Trial 2	Trial 3	Range	Trial 1	Trial 2	Trial 3	Range	
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
Totals													
				R_A				R_B				R_C	
Sum					Sum				Sum				
X_A					X_B				X_C				

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Table 1

R _A	
R _B	
R _C	
Sum	
R *	

*Transfer result to "Report" sheet

Table 2

# Trials	D ₄
2	3.27
3	2.58

Table 3

$(R) \times (D_4) = UCL_{R^*}$ $(\quad) \times (\quad) =$
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* Represents Upper Control Limit of the individual R's. Circle those that are beyond this limit and repeat those readings with the same appraiser and unit as originally used. Recompute R and the UCL_R.

Table 4

Max. X	
Min. X	
X Diff. *	

* Transfer result to "Report" sheet