

**Statistical Analysis Step-  
by-Step Using Statistical  
Calculator for  
Heritability**



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# Statistical Analysis Step-by-Step Using Statistical Calculator for Heritability

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## Methodology

We follow the steps described below to get the data analyzed and finding its outputs:

**Step 1:** Type [www.psbvb.in](http://www.psbvb.in) in any browser that will open the following web page:



**Step 2:** Then click on Statistical Analysis which will open the page given below:



**Step 3:** There are number of items on the statistical calculator. You can click on any one of them according to your need, for example, click on Heritability.



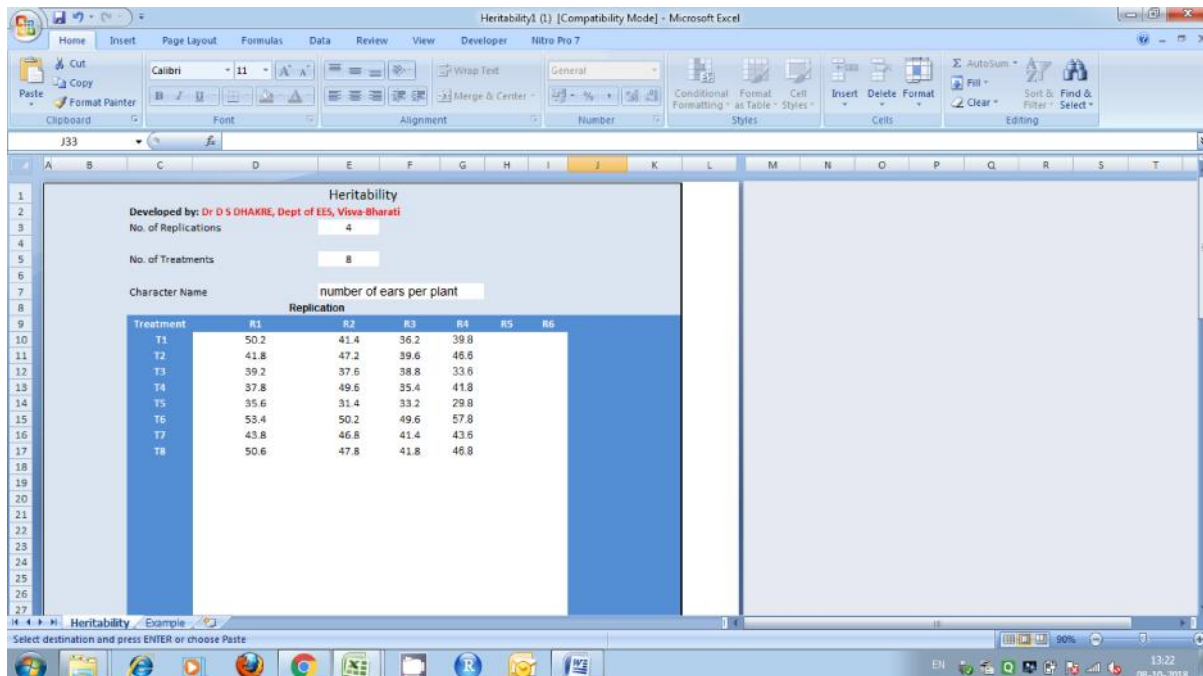
**Step 4:** Then click on Statistical Calculator and then that will download the statistical calculator of Heritability within a second. You can keep it in your computer or laptop forever. Next, you click on the downloaded file which is an excel file, a data

spreadsheet will open up. Here you can analyse upto 23 number of treatments with upto 6 number of replications. Now you can enter your data directly in the given spreadsheet or copy from other sheet and paste it here.

**Example 3.4:** In a replicated trial ( $r=4$ ), eight varieties of barley were tested (Chaudhary, 1973) and the observations were recorded on number of ears per plant. Carry out the Heritability and genetic advance for data.

Varieties	Replications			
1	50.2	41.4	36.2	39.8
2	41.8	47.2	39.6	46.6
3	39.2	37.6	38.8	33.6
4	37.8	49.6	35.4	41.8
5	35.6	31.4	33.2	29.8
6	53.4	50.2	49.6	57.8
7	43.8	46.8	41.4	43.6
8	50.6	47.8	41.8	46.8

**Step 5:** Put Number of Replications =4, Number of Treatments =8 and Name of the Variable = number of ears per plant in the following page.



**Step 6:** Now you click on the print command, then that command will start analysis and produces the results in a printable format. If a printer is attached to computer



## References

1. Microsoft Excel-Microsoft Corporations, One Microsoft Way Redmond, WA 98052-6399
2. A Hand Book of Agricultural Statistics, S. R. S. Chandel, Achal Prakashan Mandir, Kanpur.
3. Biometrical Methods in Quantitative Genetic Analysis, R.K. Singh and B. D. Chaudhary, Kalyani Publishers.