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Excel Range, Variance, Standard Deviation

Posted on May 31, 2015 by Wyman W

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This Excel tutorial explains how to measure variability using Range, Variance, Standard Deviation.

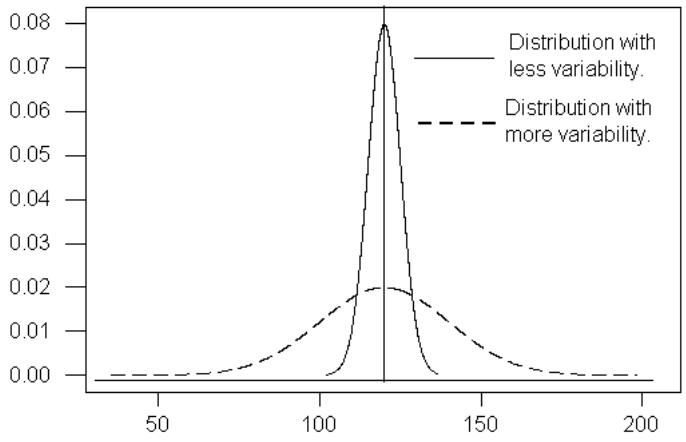
You may also want to read:

Excel calculate Covariance, Coefficient of Correlation

Excel Range, Variance, Standard Deviation

In the previous post, I have explained how to measure the central tendency using Mean, Mode, Median. In this tutorial, I will explain how to measure variability using Range, Variance, Standard Deviation. Variability is also known as dispersion, it is to measure of how data are spread out.

For example, data set 100, 130, 160 is less spread out than data set 1, 50, 100, 150, 200



Range

Range is the easiest way to describe dispersion using the below formula.

```
Range = largest observation - smallest observation
```

For data set 1, 3, 5, 7 Range = 7-1 = 6

Range only reflects the difference between largest and smallest observation, but it fails to reflect how data is centralized.

Interquartile Range

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