#### VAR

[Syntax](Syntax.docx):

VAR ( argument-list )

Description: Makes an estimate of the variance based on a sample. [Note: VAR assumes that its arguments are a sample of the population. If the data represents the entire population, [VARP](VARP.docx) should be used instead. If logical values and text representations of numbers in a [reference](reference.docx) are to be included as part of the calculation, use [VARA](VARA.docx) instead. end note]

Mathematical Formula:



where x is the sample mean AVERAGE(argument-1, argument-1,…, argument-n) and [n](n.docx) is the sample size.

Arguments:

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| argument-list | logical, number, name, text, array, [reference](reference.docx)  | The arguments in argument-list designate the numbers that are samples of the population. Logical values, and text representations of numbers that are entered directly into the list of arguments are included. If an argument is an array or [reference](reference.docx), only numbers in that array or [reference](reference.docx) are included. Empty cells, logical values, text, or error values in the array or [reference](reference.docx) are ignored. |

Return Type and Value: number – An estimate of the variance based on a sample.

[Example:

VAR(1202,1220,1323,1254,1302) results in 2683.2

end example]