#### VARA

[Syntax](Syntax.docx):

VARA ( argument-list )

Description: Makes an estimate of the variance based on a sample. [Note: VARA assumes that its arguments are a sample of the population. If the data represents the entire population, [VARPA](VARPA.docx) should be used instead. If logical values and text representations of numbers in a [reference](reference.docx) are to be excluded as part of the calculation, use [VAR](VAR.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. Arguments that contain [TRUE](TRUE.docx) evaluate as 1; arguments that contain text or [FALSE](FALSE.docx) evaluate as zero. If an argument is an array or [reference](reference.docx), only values in that array or [reference](reference.docx) are used. Empty cells and text 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:

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

end example]