#### VARP

[Syntax](Syntax.docx):

VARP ( argument-list )

Description: Computes the variance of an entire population. [Note: VARP assumes that its arguments are the total population. If the data represents a population sample only, [VAR](VAR.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 [VARPA](VARPA.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 the [members](members.docx) 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 – The variance of an entire population.

[Example:

VARP(1202,1220,1323,1254,1302) results in 2146.56

end example]