

# Re: Do you want it?

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- *From:* "Greg Heath" <[heath@xxxxxxxxxxxxxxxxxxxx](mailto:heath@xxxxxxxxxxxxxxxxxxxx)>
  - *Date:* 18 Aug 2006 08:32:59 -0700
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Greg Heath wrote:

Reef Fish wrote:

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I think Greg's attention span is good only for a few lines. So, I'll snip all except those few line:

I think the emphasis in a "sample variance" is that it is obtained from a SAMPLE of data values. The criterion of estimation does not alter the fact that they are all called "sample variance", as a short for of

Re: Do you want it?

"sample  
estimate of  
the  
population  
sigma under  
criterion #".

What modifications to  
above discussion result  
when the population  
mean, M, is known and the  
unbiased estimate for the  
covariance  
matrix is

$$S = \text{Sum}(X_i - M)(X_i - M)' / N$$

?

Hope this helps.

You should snip that line from your sig file.  
What you post seldom  
helps anyone.

That's debatable.

In this case, you're asking a question that is  
already  
answered.

I inferred that it had been answered. However, I can't find  
where it  
had been directly asked. Therefore I made it a point to get a  
direct  
answer to a direct question. In particular,

"Does any part of the sample variance discussion change  
when  
the population mean is used instead of the sample mean?"

Simple direct question asked.

Simple direct answer expected, i.e., either "No" or "Yes,  
because ...".

Re: Do you want it?

A bit too advanced for you to figure out the logic, isn't it, that the answer is "NO" ?

I figured the answer had to be NO. However, I was not absolutely 100% sure. Therefore, for my benefit as well as others, I wanted a direct answer.

You S came from a SAMPLE didn't it?

Of course. However, that's not the point. See the word SAMPLE?

But that WAS the whole point.

That was YOUR point...which was well made. However, I was trying to clarify a condition upon which previous replies "appeared" to be based (if not from you, then someone else).

OK. Twice used by Jack the OP.

Namely, the repeated phrase "when the population mean is unknown". If that phrase deserved to be repeated, then certainly the clarification that nothing changes when the population mean is used is worthwhile.

Hope this helps.

Greg  
-----SNIP

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