

# Re: Power Analysis for Multiple Regression and Indifference

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*Source:* <http://sci.tech-archive.net/Archive/sci.stat.edu/2006-10/msg00022.html>

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- *From:* "Ben-Bard" <[benhoen@xxxxxxxxxxxxxx](mailto:benhoen@xxxxxxxxxxxxxx)>
  - *Date:* 11 Oct 2006 10:54:18 -0700
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Got it Bob. Didn't know it was possible. I look forward to reading your response in sci.stat.math.

Reef Fish wrote:

Ben-Bard wrote:

AAAArrrrrrgggh! You have separate-posted the same problem and the same question in all THREE sci.stat.\* newsgroups.

I had already responded to it in sci.stat.math.

In situations like this in the future, you should CROSS-POST your identical post in all three groups instead of separate post the same three different times.

— Reef Fish Bob.

I am hoping someone can describe a method that will allow me to establish an appropriate sample size for the test I am undertaking...Any advice would be very appreciated.

I will be constructing a test where I am trying to determine if home transaction values are affected by an environmental condition it can see. A fairly small percentage (15-20%) of the sample of homes will have a view of the condition. I will first need to control for all other characteristics of the home, such as number of acres, square feet, type of exterior (roughly 20 controlled variables). In so doing I have received an adjusted r-squared of roughly .81. Then to the model I add the variables of interest, distance from and visibility of the condition. I hope to find that view of the condition is statistically significant, and has its confidence intervals inside the zone of indifference (aka it is equivalent to zero). The zone of indifference will be +/- 3 or 4%.

I have experimented with PASS, and have not found the correct construct

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to do a power analysis. I suspect it is there, but I have not found it.

Any Ideas?

other info: Sample mean \$102,000, SD \$52,000, Covaried Standard Dev \$25,000.