



# action line

occasional news and notes from action marketing research

August 1999

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## Now We Are Six

Years old, that is. Time flies when you are having fun, and we still are. Thanks to all of you who supported us when we opened our doors back in August, 1993, and to those of you who have come along since.

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## Better Than Ever Conjoint

We are big fans of what is variously labeled discrete choice analysis or choice-based conjoint. It is a powerful method for finding out the market value (utility) of various product attributes by observing consumers making forced choices.

The latest advance is a method for making reliable estimates of individual utilities from a modest amount of individual data. Previously your options were stable utilities at the group level or flaky estimates for individual respondents.

Championed first by Greg Allenby of Ohio State, a procedure known as "Hierarchical Bayesian" (HB) estimation has been programmed successfully by our friends at Sawtooth Software. Independent research has validated its ability to predict later behavior and/or "hold out" choices. With HB, interaction effects are automatically reflected in the individual coefficients, so the model may actually be simpler. And HB allows more accurate simulations of choices where the alternatives are similar to each other (e.g. line extensions).

We have used the new method and are very satisfied. It really does make conjoint a better-than-ever approach to many marketing problems. Contact us for more details.

## Just Say No

A "can do" attitude is often admired in a research company. Clients appreciate your willingness to tackle unusual problems and try new ideas. However, you should be suspicious of a research supplier that never says "no."

We feel obliged to use our best professional judgment about whether a given study, procedure, or statistical analysis should be done at all. We have advised clients that a proposed study is not worth doing. We are willing to say that, while we could do such-and-such, it should not be done. We have lost a few of these arguments and given in, but have felt badly about it.

The combination of readily available software and methodological or statistical inexperience often results in doing things to numbers that should not be done. The numbers themselves don't care. The problem could be something as simple as an inadequate sample size. It could be that the way a question was asked and scaled disqualifies it for certain statistical procedures.

There are professions whose members will do anything you ask if the price is right. We embrace a different standard for marketing research. A truly professional researcher will not hesitate to say "no, we won't do that"—even when the client would gladly pay for it. A line can be drawn between these professional researchers and what amount to research salespeople who are incented to sell anything a client will pay for.

We know which side of the line we want to be on.

## Internet Sites of Interest

Need ideas or information about forecasting?  
Lots of free, academically sound advice is  
available at Prof. Scott Armstrong's site at:  
<http://hops.wharton.upenn.edu/forecast>

A new and very fast search engine is now  
operating at:  
[www.alltheweb.com](http://www.alltheweb.com)

Natural language queries are fielded fairly well  
by:  
[www.askjeeves.com](http://www.askjeeves.com)

Sawtooth Software (whom we like but in whom  
we have no stake) provides very useful technical  
papers at their site at:  
[www.sawtoothsoftware.com](http://www.sawtoothsoftware.com)

Mediamark Research (MRI) offers some free  
summary data on magazine audiences at:  
[www.mediamark.com/pages/pp\\_S98B.htm](http://www.mediamark.com/pages/pp_S98B.htm)

A decent amount of information about larger  
public companies may be found at:  
[www.hoovers.com](http://www.hoovers.com)

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## New Digital Toys

The direct benefits to our clients will be subtle,  
but we are enjoying some new technology. Our  
brand-new digital copier/printer reproduces  
reports, etc. very cleanly and quickly. No more  
spots. It also enables us to turn around  
miscellaneous printing faster than ever.

Coming soon is a DSL line so our Internet and  
e-mail access will always be on. Inside a large  
corporation you may take this for granted, but  
we are anxious to be rid of the need to dial-up  
our Internet provider every time. We will thus  
get your e-mail as soon as you send it.

You can never have too much sample, too  
much significance, or too much data

A bumper sticker we would like to see

## Sample Weighting

There are a number of reasons to (re-) weight a  
sample after data are collected. What this  
means is that instead of counting each case  
equally, some count more than 1.00 and some  
count less. Any good statistical software will  
allow you to weight cases differentially.

You would weight a sample when, by choice or  
chance, it is not representative of your target  
population. Let's say you are studying customer  
loyalty in each of three sales regions. One region  
has twice as many customers as each of the  
other two. In order to get a good read within  
each region, you might interview 200 customers  
in each one.

Your data would be correct within a region, but  
without additional weighting, statistics for the  
total would be unduly biased in favor of your  
smaller regions. As it is, customers in your  
larger region make up a third of the sample but  
account for half your customers. Those  
respondents would be assigned a weight of  
(.50/.33) or 1.50. The customers in a smaller  
region make up a quarter of all customers so  
would be given a weight of (.25/.33) or 0.75. If  
this is the only weighting you do, nothing in the  
data will change within regions. You will only  
see different (and more accurate) statistics for  
the total sample.

In this example—where we deliberately used  
disproportional sampling—weighting is a good  
and necessary tool. But there are drawbacks of  
which you should be aware. Any time that you  
weight data, you are penalized in terms of  
statistical efficiency. We had a total sample of  
600 in our example, but after weighting the  
effective sample is smaller. That means the real  
standard errors are larger. The more extreme  
the weights, the more you are penalized. For  
instance, tests of significance run with heavily-  
weighted samples may give you misleading  
results.

Leslie Kish, in his classic Survey Sampling,  
discusses the issues as well as anyone.