

PENALTY ANALYSIS

Goal : Analyse what characteristics have the greatest effect on the overall appreciation about a product

Method :

For each characteristic

- Separate in 3 categories :
 - o Just About Right (JAR) : the middle appreciation
 - o Too much : group all the appreciations above the middle one
 - o Not enough : group all the appreciations below the middle one
- Add another category :
 - o Other : group Too much and Not enough
- For each group, compute the mean of the overall appreciation of the product
- Compute 3 penalties :
 - o JAR mean – Too much mean
 - o JAR mean – Not enough mean
 - o JAR mean – Other mean, which is the real penalty

Way to use it :

If for example we have for the crunchiness of a nutritional product :

Too much penalty	0.713
Not enough penalty	1.648
Overall penalty	1.161

We can say that

- Having not enough of crunchiness has a greatest penalizing effect on the overall appreciation than having too much crunchiness
- By finding for which characteristics the penalty is the biggest, we can conclude what characteristic should be specifically improved