Basic Notation in DAD

In this following table, we present the basic notations used in the user manual of DAD.

Symbol	Indication
У	the variable of interest.
i	Observation number
Уi	the value of the variable of interest for observation i
w	the Sampling Weight.
Wi	the Sampling Weight for observation i.
S	the size variable.
Si	the size of observation i (for example the size of household i).
swi	Wi [*] Si
k	the group variable.
k _i	the group of observation i.
с	The selected group variable
sw _i ^k	$sw_i^k = sw_i$ if $k_i = c$, and $sw_i^k = 0$ otherwise.
n	Sample size

Example: The estimated mean of group k, $\hat{\mu}(k)$, is then estimated as:

$$\hat{\mu}(k) = \frac{\sum_{i=1}^{N} sw_i^k y_i}{\sum_{i=1}^{N} sw_i^k}$$