ESTIMATION PROCEDURES

Although the 1997 OWS as planned was a complete enumeration activity, not all of the respondents cooperated to the survey. To account for the non-response, a blowing up-factor was applied to the values at the cell level.

1. Total Basic Pay (or Total Allowances) by Occupation

   a. Cell data

   $$P_{hrkm} = \left(\sum_{i}^{n'} p_{hrkmi} l_{hrkmi} \right) \left(N_{hrk} \bigg/ n'_{hrk} \right)$$

   $$L_{hrkm} = \left(\sum_{i}^{n'} l_{hrkmi} \right) \left(N_{hrk} \bigg/ n'_{hrk} \right)$$

   where:

   P_{hrkm} = estimated total basic pay (or total allowances) of m occupation in k industry, r region and h employment size

   L_{hrkm} = estimated number of time rate-workers on full-time basis in m occupation, k industry, r region and h employment size

   p_{hrkmi} = basic pay (or allowance) of m occupation reported by i^{th} establishment in k industry, r region and h employment size

   (Note: Hourly and daily rates have been converted into a standard monthly equivalent, assuming 313 working days and 8 hours per day: Daily rate x 26.08333; Hourly rate x 208.66667)

   l_{hrkmi} = time rate-workers on full-time basis in m occupation reported by i^{th} establishment in k industry, r region and h employment size

   N_{hrk} = establishment population in k industry, r region and h employment size

   n'_{hrk} = responding establishments in k industry, r region and h employment size

   $\dfrac{N_{hrk}}{n'_{hrk}}$ = blowing-up factor (raising or inflation factor)

   b. Regional and national estimates

   Aggregating the relevant data resulted to estimates of total basic pay (or total allowances) of each occupation at the regional and national levels.

2. Distribution of Time-rate Workers on Full-time Basis by Basic Pay (or Allowance) Interval

   The same principle of applying a blowing-up factor to the values at the cell level was used. Estimates at the regional and national levels were derived through aggregation of the relevant data.