Subject: Re: Using weights for small geographical locations
Posted by degreepupil on Thu, 10 Jul 2025 08:55:38 GMT
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nobleman00 wrote on Tue, 25 November 2014 20:29Hello,

I have a question regarding the sample weight (hv005 Geometry Dash) variable in the household dataset. I am currently analyzing household datasets (HR) for 40+ countries where GPS information is available. With two variables (hv201, hv205), I basically need to conduct the same analysis for two different levels: (1) sub-national boundary level of each country (hv024), (2) grid cell level (10km*10km) of each country. I created the grid-cell (10km*10km) level within a country in order to have smaller geographical units than sub-national boundaries.

When doing the analysis for (1) sub-national boundary level, I use the "hv005" variable whenever I produce some tables or collapse the datasets by sub-national boundary (hv024).

I was wondering if I can still use the same sample weight variable (hv005) when doing the analysis for (2) grid cell level (10km*10km) which shows smaller geographical units than sub-national boundary (hv024). I am asking this because I think I've read at some point that the "hv005" is designed to represent samples only at the sub-regional level (sub-national boundary) in a country. I wonder if I can still use hv005 when collapsing the dataset by the grid-cell (10km*10km) level which I intentionally created.

Thank you.
You can use hv005 at the grid-cell level, but with caution. It is designed for national and sub-national estimates (e.g., hv024), not for finer, non-standard units like 10x10 km grids. Using hv005 in grid-level analysis may introduce bias due to design not accounting for representativeness at that scale. For exploratory spatial patterns, it's acceptable, but for inference or policy decisions, results should be interpreted carefully.