
Subject: Re: Ethiopian 2011 DHS dataset
Posted by [Liz-DHS](#) on Mon, 13 Apr 2015 19:53:27 GMT
[View Forum Message](#) <> [Reply to Message](#)

Dear User,

Here is a response from one of our GIS experts, Mr. Matt Pagan,
You could use the GPS dataset, which includes latitude/longitude coordinates for the location of each cluster, to perform spatial analysis in a smaller area than the regions. You can spatially join the cluster points to a shapefile at the zonal level, but the small number of cases per region may be an issue. Also, keep in mind that the GPS cluster locations are randomly displaced: urban clusters up to 2km, and rural clusters up to 10km. The displacement may affect the accuracy of a spatial join.

More info on the displacement process can be found in our SAR7 report (<http://dhsprogram.com/publications/publication-SAR7-Spatial-Analysis-Reports.cfm>).
Guidance on how displacement impacts analysis is in our SAR8 report (<http://dhsprogram.com/publications/publication-SAR8-Spatial-Analysis-Reports.cfm>).
Last, our SAR9 report on small area estimations may be helpful as well (<http://dhsprogram.com/publications/publication-SAR9-Spatial-Analysis-Reports.cfm>).

Thank you for your post!
