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Subject: Mapping Z-scores

Posted by [hm\\_DHS](#) on Wed, 02 Jul 2014 23:29:42 GMT

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Hello -

I'm using the Malawi 2010, 2004, and 2000 DHS data.

We're using the GPS coordinates of the clusters to represent mean cluster height-for-age and weight-for-height Z scores spatially.

We are interpolating from the DHS cluster data using Inverse Distance Weighting.

This gives us an estimated mean Z-score for each pixel.

We've then extracted Z-score statistics (min, max, range, mean, std, sum) for each traditional authority (sub-district level). I've attached an example of one of the maps.

I have two questions

- (1) do we need to use the sampling weights when we plot and interpolate the GPS cluster data?
- (2) if we're using inverse distance weighting to make the maps, are we making faulty inferences if we extract data at the sub-provincial level, given that the DHS Malawi 2010 is only meant to be representative at the level of the region or province?

Thank you for your help.

HC

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### File Attachments

1) [IDW\\_test.jpeg](#), downloaded 805 times

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