

---

Subject: Cluster level population density data (Geospatial Covariate Datasets)

Posted by [Harvey](#) on Wed, 29 Sep 2021 13:02:15 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

I would like to use the population density data from the DHS Program Geospatial Covariate Datasets as a control variable in my regression analysis for the full sample including both urban and rural residents.

However, it is well known that population density is measured differently in rural and urban due to the different degree of point location offset (the buffers had a radius of either 2 kilometers for urban points or 10 kilometers for rural points).

May I ask whether it is possible to use population density as a control variable directly in a full sample (urban and rural) regression analysis?

If not, how can the variable of population density be processed for the full sample regression analysis. Thank you for your answer.

---

---

Subject: Re: Cluster level population density data (Geospatial Covariate Datasets)

Posted by [Bridgette-DHS](#) on Wed, 29 Sep 2021 19:30:50 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Following is a response from DHS Research & Data Analysis Director, Tom Pullum:

DHS staff have not used density as a control variable and cannot give a recommendation for how to proceed. You can use your own judgment, or perhaps other users will offer suggestions.

---

---

Subject: Re: Cluster level population density data (Geospatial Covariate Datasets)

Posted by [Harvey](#) on Mon, 04 Oct 2021 16:28:16 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Thank you for your prompt reply.

---