|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| **NAME** | **Area in Sq Km** | **Schools Count** | **EEP Tower Count** |  |
| Oromia | 324,319 | 1,161 | 64 |  |
| Addis Ababa | 551 | 202 | 22 |  |
| Southern Nations, Nationalities and Peoples | 112,403 | 351 | 17 |  |
| Dire Dawa | 1,054 | 16 | 3 |  |
| Somali | 314,909 | 106 | 8 | Not all EEP towers\*\* |
| Amhara | 155,681 | 477 | 4 | Not all EEP towers\*\* |
| Afar | 97,189 | 9 | 2 | Not all EEP towers\*\* |
| Harari People | 371 | 17 | 1 | Not all EEP towers\*\* |
| Gambela Peoples | 25,530 | 5 | 1 | Not all EEP towers\*\* |
| Tigray | 49,431 | 224 | 0 | Not all EEP towers\*\* |
| Benshangul-Gumaz | 49,660 | 83 | 0 | Not all EEP towers\*\* |
| *Total* | **1,131,098** | **2,651** | **122** |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| **Buffer Area** |  |  |  |  |
| Number of EEP | 122 | Not all EEP towers\*\* |  |  |
| Buffer Radius in Km | 50 |  |  |  |
| Covered area in sq km | 313,782 |  |  |  |
| Number of schools covered | 1,625 |  |  |  |
|  |  |  |  |  |
| **Viewshed Analysis** |  |  |  |  |
| Inputs | Result |  |  |  |
| \*Assuming the towers are 28 meters high and School Antenas are 3 meters high \*Using low resolution topography data | **628 out of 1625 Schools are in viewshed** | Check the third map |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| **Assumptions** |  |  |  |  |
| One EEP covers(in sq km) | 7,854 |  |  |  |
| 122 EEP covers (Theoretically) | 958,185 | \*\*compare this with Buffer area | EEP towers placed close to each other can be ommited. (Less than half of EEP towers can be used in densly placed areas) |  |