**Coefficient of Variation of Precipitation**

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| **Title:** | Coefficient of Variation (CV) of Precipitation |
| **Component:** | Exposure |
| **Rationale:** | This dataset indicates how much rainfall varies in a given location relative to the seasonal total. High relative variability indicates higher volatility of conditions suitable for agriculture. The focus on October- March is due to the fact that crops are most dependent on rainfall for growth |
| **Source Data Set:** | This is a longterm coefficient of variation i.e., a standard deviation of seasonal totals (October-March) divided by seasonal totals computed during the period 1981-2014 from USGS CHIRPS precipitation dataset available at; ftp://chg-ftpout.geog.ucsb.edu/pub/org/chg/products/CHIRPS-2.0 |
| **Units:** | Units are percentages |
| **Computation:** | The precipitation CV data were subset to the Malawi national boundary extent using ArcGIS Extract by Mask tool using a 1km Raster Mask. Raster values were extracted using ArcGIS Extract Values to Points tool and the 1km centroids.  The output was exported to csv table for statistical analysis. |
| **Statistics for raw data:** | Min=0, Max=26 |
| **Scoring system:** | *Raster values were rescaled from 0-100 based on the min and max values of raw data.* |
| **Statistics for transformed data:** | Min=0, Max=100 |
| **Spatial Extent:** | Africa |
| **Spatial Resolution:** | 5km |
| **Year of Publication:** | 2015 |
| **Time Period:** | 1981-2014 |
| **Additional Notes:** | Climate Hazards Group InfraRed Precipitation with Station data (CHIRPS) is a 30+ year quasi-global rainfall dataset. Spanning 50°S-50°N (and all longitudes), starting in 1981 to near-present, CHIRPS incorporates 0.05° resolution satellite imagery with in-situ station data to create gridded rainfall time series for trend analysis and seasonal drought monitoring. As of February 12th, 2015, version 2.0 of CHIRPS is complete and available to the public. |
| **Date:** | July 2015 |
| **Format:** | GeoTIFF |
| **File Name:** | Precipitation CV |
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