PSTAT 231 Final Project Broderick and Weinberg Data Dictionary

The following data dictionary refers to the variables found in the "Global Environmental indicators" dataset hosted by Ruchi Bhatia and made available on Kaggie by the UNSD Global Environmental Statistics Group, Only variables used in the models are listed here. For a full set of variables available in the dataset, see https://www.laggle.com/ruch/198/global-environmental-indicators.

Population, area, and GOP data comes from the Word Bank website (sources below) and was manually matched in the "OZ_final_crosswalk.cos" file (available with the project resources in the crosswalk folder). Rarely, when world bank data was not available for a country, Wikipedia was generally used for a rough estimate.

For a summary of how variables were selected for use in the report, see the project report. Quoted descriptions come from the Aisx files available on the Kaggle webpage.

Category	Kaggle File	Kaggle Variable Name	Code Variable Name	Unit	Original Source	Additional Notes
All	All of the following	Varies	Country_Final	Categorical	NA	The name Varies, but is present in an riles. cleaned and used for merging as part of the data cleaning process
All	All of the following	Varies	Country_ID_Final	Categorical	NA	ne name varies, but is present most rilles. Cleaned and used for merging as part of the data cleaning process
Air and Climate	CH4_Emissions.csv	CH4 emissions, latest year	CH4	1000 tonnes of CO2 Equivalent	UN Framework Convention on Climate Change (UNFCCC)	
Air and Climate	CO2_Emissions.csv	CO2 emissions, latest year	005	Thousands of tonnes (1000 t)	UN Framework Convention on Climate Change (UNFCCC)	
Air and Climate	GHG_Emissions.csv	latest year	GHG	1000 tonnes of CO ₂ equivalent	UN Framework Convention on Climate Change (UNFCCC)	
Air and Climate	NOx_Emissions.csv	NOx emissions, latest year	NOx	Thousands of tonnes (1000 t)	UN Framework Convention on Climate Change (UNFCCC)	
Energy and Minerals		Energy supply (petajoules)	energy_supply_petajoules	Petajoules	UNSD Energy Statistics Yearbook.	
Energy and Minerals Energy and Minerals	Energy intensity measured in terms of primary energy s and GDP.csy s Renewable elec production percentage.csy	201	2017 energy_intensity_2017 2017 renewable_percent_2017	Megajoules per USD constant 2011 PPP GDP Percentage	SDG indicators Global Database, Indicator 7.3.1: Energy intensity measured in terms of primary energy and GDP UNSD Energy Statistics Yearbook. Cereptor for full description, Comerce of See report for full description, Comerce of See report of the Statistics Yearbook. Contribution of mining to trail value added in	measured in terms of primary energy and GDP See report for full description. Converted to decimal representation Contribution of mining to total value added is calculated as the value added by the mining
Energy and Minerals	s Contribution of mining to value added.csv	201	2017 mining_value_2017	Percentage	on UNSD National Accounts Main Aggregates Database.	and quarrying sector as percentage of total value added for all industries in the country or area.
Land and Agriculture		% of total land area covered by agricultural area in 2013	percent_land_agricultural_2013	Percentage	Food and Agriculture Organization of the United Nations (FAO).	
Land and Agriculture		Nitrogen	nitrogen_consumption	Agricultural Land Area in 2013, 1000 netrains of	Not Provided	
Land and Agriculture		Phosphate	phosphate_consumption	Agricultural Land Area in 2013, tonnes of Agricultural Land Area in 2013, tonnes of Agricultural Land Area in 2018, tonnes of Agricultural Land Area in 2018, tonnes of Agricultural Land Agricultura La	Not Provided	
Land and Agriculture	Consumption of Tertilizers per unit of agricultural land e area.csv	Potash	potash_consumption	Consumption of Perfulzers per 1000 nectares of Agricultural Land Area in 2013, tonnes of nutrients	Not Provided	
Land and Agriculture	e Terrestrial protected areas.csv	Terrestrial protected areas	terrestrial_protected_areas	Percent of total land area	Not Provided	
Biodiversity	Terrestrial_Marine protected areas.csv	Terrestrial and marine protected areas (% of total territorial area)	protected_areas_marine_terrestrial	Percent	https://www.protectedplanet.net/	
Forests	Forest Area.csv	Forest Area, 2015 (1000 ha)	forest_area_2015	100 ha	FAO, Global Forest Resources Assessments 2020	
Governance	Governance.csv	Basel Convention	Basel_Convention	Year	See Governance.xisx, available in project resources or Kaggle dataset	set
Governance	Governance.csv	CITES Convention on Biological	dies	Year	See Governance.Xisx, available in project resources or Kaggle datas et	set
Governance	Governance.csv	Diversity Kvoto Protocol	Convention_on_Biological_Diversity	Year	See Governance.xisx, available in project resources or Kaggle dataset See Governance view, available in project resources or Kaggle dataset	Set set
Governance	Governance.csv	Montreal Protocol	Montreal Protocol	Year	See Governance.xlsx, available in project resources or Kaggle dataset	set
Governance	Governance.csv	Paris Agreement	Paris_Agreement	Year	See Governance.xlsx, available in project resources or Kaggle dataset	set
Governance	Governance.csv	Ramsar Convention	Ramsar_Convention Rotterdam Convention	Year	See Governance.xlsx, available in project resources or Kaggle dataset See Governance xlsx available in project resources or Kaggle dataset	set pat
Governance	Governance.csv	Stockholm Convention		Year	See Governance.xlsx, available in project resources or Kaggle dataset	set
Governance	Governance.csv	UN Convention on the Law of	or UN_Convention_on_the_Law_of_the_Sea	Year	See Governance.xlsx, available in project resources or Kaggle dataset	set
Governance	Governance.csv	UN Convention to Combat Desertification	UN_Convention_to_Combat_Desertification	Year	See Governance.xlsx, available in project resources or Kaggle dataset	set
Governance	Governance.csv	UN Framework Convention on Climate Change	UN_Framework_Convention_on_Climate_Change	Year	See Governance.xlsx, available in project resources or Kaggle dataset	***************************************
Governance	Governance.csv	World Heritage Convention	World_Heritage_Convention	Year	See Governance.xlsx, available in project resources or Kaggle datase	set
World Bank Data	File	World Bank Data Name	Code Variable Name	Unit	Original Source	
	API_SP.POP.TOTL_DS2_en_csv_v2_3628828.csv API_AG.LND.TOTL.K2_DS2_en_csv_v2_3656897.csv API_NY.GDP.MKTP.CD_DS2_en_csv_v2_3628616.csv	201 201 201 201 201	2017 X2017_Population_World_Bank 2017 X2017_Land_Area_km_2 2017 X2017_GDP_US_Dollars_World_Bank	Count km^2 GDP (current USS), last undated 2002-02-15	https://data.worldbank.org/indicator/SP.POP.TOTI.?most_recent_year_desc=true https://data.worldbank.org/indicator/AG.LND.TOTL.XD https://data.worldbank.org/indicator/NY.GDP.MXTP.CD	year_desc=true
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