Feed the Future Standardized Dataset: Bangladesh
Metadata Guide

Overview

This activity re-compiles available open, gender/sex-disaggregated Feed the Future datasets for Bangladesh and applies standard processing methods to enhance their accessibility and interoperability. This entails standardization of variable names and labels, the creation of derived socio-economic indicators such as dietary diversity scores, household dependency ratios, and household age and gender composition. This allows researchers to easily use data for Bangladesh, as well as make cross country comparisons with other standardized datasets. Moreover, the provision of household GIS coordinates (offset for confidentiality purposes) allows users to match data at different levels.

This work combines multi-topic household and community socio-economic and agricultural surveys with biophysical datasets from multiple sources, including remote sensing, for a thorough comparison of different phenomena. These biophysical sources include the International Soil Reference and Information Centre (IRIC) World Soil Information, NASA MODIS vegetation indices and land surface temperature data, and the HarvestChoice spatially-disaggregated subnational crop production statistics database (Spatial Production Allocation Model; SPAM)

Household Level Dataset

BIHS_household_2011_15

The household level dataset draws primarily from the Bangladesh Integrated Household Survey, conducted in 2011 and 2015. Households are identified by their unique ID, a01. The survey was primarily panel in nature, so responses can be tracked across the same households between survey rounds. Each row in the dataset represents a household/survey year combination, so that each panel household has one record for 2011 and one record for 2015.

Using household-level GPS coordinates, each record has been matched with biophysical variables from a number of different sources listed below. This allows researchers to analyze the link between household-level variables and biophysical characteristics without needing to generate data or link disparate sources.

Child Level Dataset

BIHS_child_2011_15

The child level dataset similarly draws from the Bangladesh Integrated Household Survey, though with the intent of analyzing the links between child nutritional outcomes and household characteristics/biophysical variables. Each row represents a household/child/year. Height and weight measurements are taken directly from the household survey, while BMI, height-for-age, height-for-weight, and weight-for-age z-scores and malnutrition indicators are calculated per WHO (2006) protocol in which each child is compared to a healthy reference population of children.

To aid in analysis, this child level data has been matched with some household level covariates, as well as the full set of biophysical variables as is present in the household-level dataset.

Using this data to map

Along with household and child level datasets, shape files for Bangladesh administrative levels have uploaded to allow researchers to map findings. These files have been provided in .csv, .dbf, .cpg, .prj, .shp, and .dta formats, and facilitate mapping at any administrative level: country-wide, division, and or district. These shape files match to each record's division or district and provide a full set of latitude and longitude coordinates that can be read by any GIS software tool. Depending on the desired level of disaggregation, users should pair the standardized data with the following sets of shape files:

Country-wide: BGD_adm0.dat and BGD_adm0_coord.dat
Division: BGD_adm1.dat and BGD_adm1_coord.dat
District: BGD_adm2.dat and BGD_adm2_coord.dat

Sources:

Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Funk, Chris, Pete Peterson, Martin Landsfeld, Diego Pedreros, James Verdin, Shraddhanand Shukla, Gregory Husak, James Rowland, Laura Harrison, Andrew Hoell & Joel Michaelsen.
Global Agro-ecological Assessment for Agriculture in the 21st Century (GAEZ v 2.0), FAO/IIASA, 2002
Guo, Zhe; Cox, Cindy M. 2014. Market access. In Atlas of African agriculture research and development: Revealing agriculture's place in Africa. Sebastian, Kate, Ed. Pp. 66-67. Washington, D.C.: International Food
ISRIC - World Soil Information
K. Didan. (2015). MOD13C2 MODIS/Terra Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod13c2.006
K. Didan. (2015). MYD13C2 MODIS/Aqua Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/myd13c2.006
You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM)
Z. Wan, S. H. (2015). MOD11C3 MODIS/Terra Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod11c3.006

Dataset: BIHS_household_2011_15

Category	Variable	Definition	Metric	Source
Identifier	a01	household number	Numeric identifier	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Identifier	survey_year	Survey Year	2011 or 2015	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Identifier	country_name	Country Name	String identifier	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Identifier	ISO	3-digit ISO code	3-digit string identifier	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Identifier	NAME_1	Division (level 1)	Division name string	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Identifier	NAME_2	District (level 2)	District name string	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Identifier	hh_type	Survey sample category	Categorical variable: 1. Feed the Future; 2. Feet the Future (addl); 3. National representative	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Demographics	hhhead_marital	Household head marital status	Categorical variable: 1. Unmarried (never married); 2. Married; 3. Widow/widower; 4. Divorced; 5. Separated/deserted	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Demographics	hhhead_religion	Household head's religion	Categorical variable: 1. Muslim; 2. Hindu; 3. Christian	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Demographics	hhhead_gender	Household head gender	Categorical variable: 1. Male; 2. Female	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Demographics	hhhead_age	Household head age	Age of household head in years	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Demographics	hhhead_education	Household head level of education	Categorical variable: 0. Reads in class i; 1. Completed class i; 2. Completed class 2; 3. Completed class 3; 4. Completed class 4; 5. Completed class 5; 6. Completed class 6; 7. Completed class 7; 8. Completed class 8; 9. Completed class 9; 10. Completed ssc/dakhil; 12. Completed hsc/alim; 14. Ba/bsc pass/fazil; 15. Ba/bsc honors/fazil; 16. Ma/msc and above/kamil; 22. Ssc candidate; 33. Hsc candidate; 66. Preschool class (general); 67. Preschool (mosque based); 74. Diploma engineer; 76. Other; 99. Never attended school	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Demographics	hhhead_literate	Household head literacy	Categorical variable: 1. Cannot read and write; 2. Can sign only; 3. Can read only; 4. Can read and write	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Demographics	memb_total	Members, total	Number of household members	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Demographics	males	Members, male	Number of male household members	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Demographics	females	Members, female	Number of female household members	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Demographics	memb_und6	Members, age <6	Number of household members under age 6	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015

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Category	Variable	Definition	Metric	Source
Demographics	memb_male_und16	Members, male under 16	Number of male household members under age 16	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Demographics	memb_female_und16	Members, female under 16	Number of female household members under age 16	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Demographics	depend_young	Dependency ratio, young	Number of members under 15 divided by number of members between 15 and 65	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Demographics	depend_old	Dependency ratio, old	Number of members over 65 divided by number of members between 15 and 65	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Demographics	depend_total	Dependency ratio, total	Number of members under 15 OR over 65 divided by number of members between 15 and 65	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Demographics	memb_und15	Members, age <15	Number of household members under age 16	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Demographics	memb_15_44	Members, age 15-44	Number of household members between age 15 and 44	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Demographics	memb_45_65	Members, age 45-65	Number of household members between age 45 and 65	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Demographics	memb_65plus	Members, age 65+	Number of household members above age 65	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	land_total	Land, total (ha)	Hectares of land owned	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	land_rented	Land rented (ha)	Hectares of land rented	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	land_owned_rentedout	Land owned and rented out (ha)	Hectares of land owned and rented out	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	land_owned_notoperated	Land owned and not operated (ha)	Hectares of land owned and not operated	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	land_owned_operated	Land owned and operated (ha)	Hectares of land owned and operated	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	house_owned	do you own this house, do you use it for free, or do you rent this house?	Categorical variable: 1. Owned; 2. Free; 3. Rental	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	house_rooms	how many rooms does your household occupy?	Number of rooms	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	house_electricity	does this household have an electricity connection?	Indicator variable (0/1: no/yes)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	house_watersource	Water source	Categorical variable: 1. Supply Water (piped), outside; 2. Supply Water (piped) inside house; 3. Own tube well; 4. Community tubewell; 5. Rain water; 6. Ring Well/ Indara; 7. Pond/River/ Canal; 9. Shallow tubewell; 10. Deep tubewell; 11. Others; 12. Other tubewell	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	house_toilet	Toilet type	Categorical variable: 1. None (open field); 2. Kutcha (fixed place); 3. Pucca (unsealed); 4. Sanitary without flash (water sealed); 5. Sanitary with flash (water sealed); 6. Community latrine; 7. Other	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	house_roof	House material, roof	Categorical variable: 1. Concrete/brick; 2. Tin/ci sheets; 3. Wood; 4. Mud or unfired mud brick; 5. Bamboo; 6. Jute stick; 7. Plastic sheeting (polythene); 9. Golpaata/palm leaf; 10. Grass/straw; 11. Other	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015

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Category	Variable	Definition	Metric	Source
Socioeconomic	house_walls	House material, outer walls	Categorical variable: 1. Concrete/brick; 2. Tin/ci sheets; 3. Wood; 4. Mud or unfired mud brick; 5. Bamboo; 6. Jute stick; 7. Plastic sheeting (polythene); 9. Golpaata/palm leaf; 10. Grass/straw; 11. Other	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	house_floor	House material, floor	Categorical variable: 1. Concrete/brick; 2. Tin/ci sheets; 3. Wood; 4. Mud or unfired mud brick; 5. Bamboo; 6. Jute stick; 7. Plastic sheeting (polythene); 9. Golpaata/palm leaf; 10. Grass/straw; 11. Other	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	asset_qty_cattle	Assets: Cattle, number owned	Number of asset owned by the household	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	asset_qty_poultry	Assets: Poultry, number owned	Number of asset owned by the household	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	asset_qty_sheepgoat	Assets: Sheep/Goat, number owned	Number of asset owned by the household	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	asset_qty_otherlivestock	Assets: Other livestock, number owned	Number of asset owned by the household	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	asset_television	Asset: HH owns Television	Indicator variable (0/1: no/yes) on household ownership	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	asset_radio	Asset: HH owns Radio	Indicator variable (0/1: no/yes) on household ownership	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	asset_motorbike	Asset: HH owns Motorbike	Indicator variable (0/1: no/yes) on household ownership	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	asset_telephone	Asset: HH owns Telephone	Indicator variable (0/1: no/yes) on household ownership	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	asset_tractor	Asset: HH owns Tractor	Indicator variable (0/1: no/yes) on household ownership	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	asset_cartplough	Asset: HH owns Cart Plough	Indicator variable (0/1: no/yes) on household ownership	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	fertilizer	Household uses organic/chemical fertilizer	Indicator variable (0/1: no/yes) on use	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	dist_water_min	Distance to water source, minutes	Distance in minutes	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	dist_market_min	Distance to market, minutes	Distance in minutes	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	dist_publictranspo_min	Distance to public transportation, minutes	Distance in minutes	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	dist_hospital_min	Distance to hospital, minutes	Distance in minutes	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	dist_school_min	Distance to primary school (min)	Distance in minutes	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	dist_water_km	Distance to water source, km	Distance in kilometers	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	dist_market_km	Distance to market, km	Distance in kilometers	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	dist_publictranspo_km	Distance to public transportation, km	Distance in kilometers	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015

Dataset: BIHS_household_2011_15

Category	Variable	Definition	Metric	Source
Socioeconomic	dist_hospital_km	Distance to hospital, km	Distance in kilometers	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Socioeconomic	dist_school_km	Distance to primary school (km)	Distance in kilometers	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	f_weai_feelinputdecagr	Input in productive decisions, women	Indicator variable (0/1: no/yes) on individual female component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	f_weai_incdec_count	Control over use of income, women	Indicator variable (0/1: no/yes) on individual female component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	f_weai_raiprod_any	Autonomy in production, women	Indicator variable (0/1: no/yes) on individual female component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	f_weai_jown_count	Ownership of asset, women	Indicator variable (0/1: no/yes) on individual female component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	f_weai_jrightanyagr	Purchase, sale or transfer of asset, women	Indicator variable (0/1: no/yes) on individual female component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	f_weai_credjanydec_any	Access to and decision on credit, women	Indicator variable (0/1: no/yes) on individual female component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	f_weai_speakpublic_any	Speaking in Public, women	Indicator variable (0/1: no/yes) on individual female component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	f_weai_groupmember_any	Group memeber, women	Indicator variable (0/1: no/yes) on individual female component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	f_weai_leisuretime	Leisure, women	Indicator variable (0/1: no/yes) on individual female component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	f_weai_npoor_z105	Workload, women	Indicator variable (0/1: no/yes) on individual female component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	f_weai_fivede	5DE score, women	Female score on five domains of empowerment	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	m_weai_feelinputdecagr	Input in productive decisions, men	Indicator variable (0/1: no/yes) on individual male component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	m_weai_incdec_count	Control over use of income, men	Indicator variable (0/1: no/yes) on individual male component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	m_weai_raiprod_any	Autonomy in production, men	Indicator variable (0/1: no/yes) on individual male component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	m_weai_jown_count	Ownership of asset, men	Indicator variable (0/1: no/yes) on individual male component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015

Dataset: BIHS_household_2011_15

Category	Variable	Definition	Metric	Source
Female Empowerment	m_weai_jrightanyagr	Purchase, sale or transfer of asset, men	Indicator variable (0/1: no/yes) on individual male component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	m_weai_credjanydec_any	Access to and decision on credit, men	Indicator variable (0/1: no/yes) on individual male component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	m_weai_speakpublic_any	Speaking in Public, men	Indicator variable (0/1: no/yes) on individual male component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	m_weai_groupmember_any	Group memeber, men	Indicator variable (0/1: no/yes) on individual male component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	m_weai_leisuretime	Leisure, men	Indicator variable (0/1: no/yes) on individual male component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	m_weai_npoor_z105	Workload, men	Indicator variable (0/1: no/yes) on individual male component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	m_weai_fivede	5DE score, men	Male score on five domains of empowerment	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	weai_parity_gap	Gender parity gap (difference between men's and women's Five DE)	Numeric gap between men's and women's scores	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Food Security	fcs	Food Consumption Score	Numeric score on scale 0 to 120	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Food Security	dd_1_wheat	number of days eaten in previous 7 days (wheat flour (roti, bread, noodles))	Number of times consuming food group in 7 day period; component of dietary diversity	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Food Security	dd_2_wheat	number of days eaten in previous 7 days (rice)	Number of times consuming food group in 7 day period; component of dietary diversity	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Food Security	dd_3_tubers	number of days eaten in previous 7 days (potatoes, cassava, matoke and other roo	Number of times consuming food group in 7 day period; component of dietary diversity	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Food Security	dd_4_cereals	number of days eaten in previous 7 days (cereals (maize, sorghum, millet, barley	Number of times consuming food group in 7 day period; component of dietary diversity	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Food Security	dd_5_vegetablse	number of days eaten in previous 7 days (vegetables)	Number of times consuming food group in 7 day period; component of dietary diversity	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Food Security	dd_6_fruits	number of days eaten in previous 7 days (fruits/fruit juices (fresh and dry)	Number of times consuming food group in 7 day period; component of dietary diversity	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Food Security	dd_7_beans	number of days eaten in previous 7 days (beans, lentils, peas, nuts)	Number of times consuming food group in 7 day period; component of dietary diversity	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Food Security	dd_8_eggs	number of days eaten in previous 7 days (eggs)	Number of times consuming food group in 7 day period; component of dietary diversity	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Food Security	dd_9_dairy	number of days eaten in previous 7 days (dairy products (milk, cheese, yoghurt)	Number of times consuming food group in 7 day period; component of dietary diversity	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Food Security	dd_10_meat	number of days eaten in previous 7 days (meat goat, beef, lamb, pork)	Number of times consuming food group in 7 day period; component of dietary diversity	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Food Security	dd_11_poultry	number of days eaten in previous 7 days (poultry (chicken, duck, pigeon)	Number of times consuming food group in 7 day period; component of dietary diversity	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Food Security	dd_12_fish	number of days eaten in previous 7 days (fish (fresh and dry)	Number of times consuming food group in 7 day period; component of dietary diversity	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Food Security	dd_13_oils	number of days eaten in previous 7 days (oil//fats (ghee, butter, vegetable, oil	Number of times consuming food group in 7 day period; component of dietary diversity	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015

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Food Security	dd_14_sugar	number of days eaten in previous 7 days (sugar, honey)	Number of times consuming food group in 7 day period; component of dietary diversity	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Food Security	dd_15_condiments	number of days eaten in previous 7 days (condiments (spices, ketchup))	Number of times consuming food group in 7 day period; component of dietary diversity	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Food Security	dd_16_nuts	number of days eaten in previous 7 days (nuts and seeds (ground nut, simsim, sun	Number of times consuming food group in 7 day period; component of dietary diversity	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Food Security	dd_17_alcohol	number of days eaten in previous 7 days (tobacco (alcohol included))	Number of times consuming food group in 7 day period; component of dietary diversity	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Food Security	hhs_total	Household Hunger Scale	Composite score ranging from 0 to 6 of three composite behaviors	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Food Security	hhs_1_nofood	in the past 4 weeks was there ever no food to eat of any kind in your house beca	Indicator (0/1: no/yes) on component behavior of household hunger scale	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Food Security	hhs_2_sleephungry	in the past 4 weeks did you or any household member go to sleep at night hungery	Indicator (0/1: no/yes) on component behavior of household hunger scale	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Food Security	hhs_3_hungry	in the past 4 weeks did you or any household member go a whole day and night wit	Indicator (0/1: no/yes) on component behavior of household hunger scale	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Biophysical	bio_gis_id	GIS ID	Derived identifier used to match to biophysical variables	Derived identifier
Biophysical	bio_latitude	HH Latitude (offset)	Randomly offset degrees North coordinates to ensure confidentiality	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Biophysical	bio_longitude	HH Longitude (offset)	Randomly offset degrees East coordinates to ensure confidentiality	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Biophysical	bio_aez_global	Agro-ecological zones (ID)	Agro-ecological numeric ID matching with string ID	Global Agro-ecological Assessment for Agriculture in the 21st Century (GAEZ v 2.0), FAO/IIASA, 2002
Biophysical	bio_aez_name	Agro-ecological zones (NAME)	Agro-ecological string ID matching with numeric ID	Global Agro-ecological Assessment for Agriculture in the 21st Century (GAEZ v 2.0), FAO/IIASA, 2002
Biophysical	bio_bio_1	Annual Mean Temperature	Long term average since 1950 in degrees Celsius	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_10	Mean Temperature of Warmest Quarter	Long term average since 1950 in degrees Celsius	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_11	Mean Temperature of Coldest Quarter	Long term average since 1950 in degrees Celsius	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_12	Annual Precipitation	Long term average since 1950 in millimeters	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_13	Precipitation of Wettest Month	Long term average since 1950 in millimeters	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology

Dataset: BIHS_household_2011_15

Category	Variable	Definition	Metric	Source
Biophysical	bio_bio_14	Precipitation of Driest Month	Long term average since 1950 in millimeters	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_15	Precipitation Seasonality (Coefficient of Variation)	Long term average since 1950 in millimeters	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_16	Precipitation of Wettest Quarter	Long term average since 1950 in millimeters	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_17	Precipitation of Driest Quarter	Long term average since 1950 in millimeters	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_18	Precipitation of Warmest Quarter	Long term average since 1950 in millimeters	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_19	Precipitation of Coldest Quarter	Long term average since 1950 in millimeters	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_4	Temperature Seasonality (standard deviation *100)	Long term average since 1950 in degrees Celsius*100	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_5	Max Temperature of Warmest Month	Long term average since 1950 in degrees Celsius	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_6	Min Temperature of Coldest Month	Long term average since 1950 in degrees Celsius	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_7	Temperature Annual Range	Long term average since 1950 in degrees Celsius	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_8	Mean Temperature of Wettest Quarter	Long term average since 1950 in degrees Celsius	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_9	Mean Temperature of Driest Quarter	Long term average since 1950 in degrees Celsius	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology

Dataset: BIHS_household_2011_15

Category	Variable	Definition	Metric	Source
Biophysical	bio_ndvi_mean	Mean of long term average of NDVI	Long term average since 1950 ranging from 0 to 1	K. Didan. (2015). MOD13C2 MODIS/Terra Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod13c2.006
Biophysical	bio_ndvi_max	Max of long term average of NDVI	Long term average since 1950 ranging from 0 to 1	K. Didan. (2015). MOD13C2 MODIS/Terra Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod13c2.006
Biophysical	bio_ndvi_min	Min of long term average of NDVI	Long term average since 1950 ranging from 0 to 1	K. Didan. (2015). MOD13C2 MODIS/Terra Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod13c2.006
Biophysical	bio_alt	Elevation	Elevation in meters	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_h_rice_a	Rice harvested area all	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_h_rice_h	Rice harvested area of high input	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_h_rice_i	Rice irrigated harvested area	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_h_rice_l	Rice harvesteded area of low input	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_h_rice_r	Rice rainfed harvesteded area	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_h_rice_s	Rice harvested area of subsistence	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_c_50000	Travel time to cities with population greater than 50,000	Time in minutes	Guo, Zhe; Cox, Cindy M. 2014. Market access. In Atlas of African agriculture research and development: Revealing agriculture's place in Africa. Sebastian, Kate, Ed. Pp. 66-67. Washington, D.C.: International Food Policy Research Institute (IFPRI). http://ebrary.ifpri.org/cdm/ref/collection/p15738coll2/128748 http://dx.doi.org/10.2499/9780896298460_28

Dataset: BIHS_household_2011_15

Category	Variable	Definition	Metric	Source
Biophysical	bio_c_100000	Travel time to cities with population greater than 100,000	Time in minutes	Guo, Zhe; Cox, Cindy M. 2014. Market access. In Atlas of African agriculture research and development: Revealing agriculture's place in Africa. Sebastian, Kate, Ed. Pp. 66-67. Washington, D.C.: International Food Policy Research Institute (IFPRI). http://ebrary.ifpri.org/cdm/ref/collection/p15738coll2/128748 http://dx.doi.org/10.2499/9780896298460_28
Biophysical	bio_c_250000	Travel time to cities with population greater than 250,000	Time in minutes	Guo, Zhe; Cox, Cindy M. 2014. Market access. In Atlas of African agriculture research and development: Revealing agriculture's place in Africa. Sebastian, Kate, Ed. Pp. 66-67. Washington, D.C.: International Food Policy Research Institute (IFPRI). http://ebrary.ifpri.org/cdm/ref/collection/p15738coll2/128748 http://dx.doi.org/10.2499/9780896298460_28
Biophysical	bio_c_500000	Travel time to cities with population greater than 500,000	Time in minutes	Guo, Zhe; Cox, Cindy M. 2014. Market access. In Atlas of African agriculture research and development: Revealing agriculture's place in Africa. Sebastian, Kate, Ed. Pp. 66-67. Washington, D.C.: International Food Policy Research Institute (IFPRI). http://ebrary.ifpri.org/cdm/ref/collection/p15738coll2/128748 http://dx.doi.org/10.2499/9780896298460_28
Biophysical	bio_c_20000	Travel time to cities with population greater than 20,000	Time in minutes	Guo, Zhe; Cox, Cindy M. 2014. Market access. In Atlas of African agriculture research and development: Revealing agriculture's place in Africa. Sebastian, Kate, Ed. Pp. 66-67. Washington, D.C.: International Food Policy Research Institute (IFPRI). http://ebrary.ifpri.org/cdm/ref/collection/p15738coll2/128748 http://dx.doi.org/10.2499/9780896298460_28
Biophysical	bio_a_rice_a	Rice physical area all	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_a_rice_h	Rice physical area of high input	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_a_rice_i	Rice irrigated physical area	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_a_rice_l	Rice physicaled area of low input	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.

Dataset: BIHS_household_2011_15

Category	Variable	Definition	Metric	Source
Biophysical	bio_a_rice_r	Rice rainfed physicaled area	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_a_rice_s	Rice physical area of subsistence	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_p_rice_a	Rice production all	Production in kilograms	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_p_rice_h	Rice production of high input	Production in kilograms	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_p_rice_i	Rice irrigated production	Production in kilograms	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_p_rice_l	Rice harvesteded area of low input	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_p_rice_r	Rice rainfed harvesteded area	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_p_rice_s	Rice production of subsistence	Production in kilograms	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_cecsol1	Cation exchange capacity of soil in cmolc/kg at depth 0.00 m	Centimoles per kilogram	ISRIC - World Soil Information
Biophysical	bio_cecsol2	Cation exchange capacity of soil in cmolc/kg at depth 0.05 m	Centimoles per kilogram	ISRIC - World Soil Information
Biophysical	bio_cecsol3	Cation exchange capacity of soil in cmolc/kg at depth 0.15 m	Centimoles per kilogram	ISRIC - World Soil Information
Biophysical	bio_cecsol4	Cation exchange capacity of soil in cmolc/kg at depth 0.30 m	Centimoles per kilogram	ISRIC - World Soil Information
Biophysical	bio_cecsol5	Cation exchange capacity of soil in cmolc/kg at depth 0.60 m	Centimoles per kilogram	ISRIC - World Soil Information
Biophysical	bio_cecsol6	Cation exchange capacity of soil in cmolc/kg at depth 1.00 m	Centimoles per kilogram	ISRIC - World Soil Information
Biophysical	bio_cecsol7	Cation exchange capacity of soil in cmolc/kg at depth 2.00 m	Centimoles per kilogram	ISRIC - World Soil Information
Biophysical	bio_clyppt1	Clay content (0-2 micro meter) mass fraction in % at depth 0.00 m	Percentage of clay content	ISRIC - World Soil Information
Biophysical	bio_clyppt2	Clay content (0-2 micro meter) mass fraction in % at depth 0.05 m	Percentage of clay content	ISRIC - World Soil Information
Biophysical	bio_clyppt3	Clay content (0-2 micro meter) mass fraction in % at depth 0.15 m	Percentage of clay content	ISRIC - World Soil Information
Biophysical	bio_clyppt4	Clay content (0-2 micro meter) mass fraction in % at depth 0.30 m	Percentage of clay content	ISRIC - World Soil Information

Dataset: BIHS_household_2011_15

Category	Variable	Definition	Metric	Source
Biophysical	bio_clyppt5	Clay content (0-2 micro meter) mass fraction in % at depth 0.60 m	Percentage of clay content	ISRIC - World Soil Information
Biophysical	bio_clyppt6	Clay content (0-2 micro meter) mass fraction in % at depth 1.00 m	Percentage of clay content	ISRIC - World Soil Information
Biophysical	bio_clyppt7	Clay content (0-2 micro meter) mass fraction in % at depth 2.00 m	Percentage of clay content	ISRIC - World Soil Information
Biophysical	bio_crfvol1	Coarse fragments volumetric in % at depth 0.00 m	Percentage of coarse fragments	ISRIC - World Soil Information
Biophysical	bio_crfvol2	Coarse fragments volumetric in % at depth 0.05 m	Percentage of coarse fragments	ISRIC - World Soil Information
Biophysical	bio_crfvol3	Coarse fragments volumetric in % at depth 0.15 m	Percentage of coarse fragments	ISRIC - World Soil Information
Biophysical	bio_crfvol4	Coarse fragments volumetric in % at depth 0.30 m	Percentage of coarse fragments	ISRIC - World Soil Information
Biophysical	bio_crfvol5	Coarse fragments volumetric in % at depth 0.60 m	Percentage of coarse fragments	ISRIC - World Soil Information
Biophysical	bio_crfvol6	Coarse fragments volumetric in % at depth 1.00 m	Percentage of coarse fragments	ISRIC - World Soil Information
Biophysical	bio_crfvol7	Coarse fragments volumetric in % at depth 2.00 m	Percentage of coarse fragments	ISRIC - World Soil Information
Biophysical	bio_ocdens1	Soil organic carbon density in kg per cubic-m at depth 0.00 m	Kilgrams per cubic meter	ISRIC - World Soil Information
Biophysical	bio_ocdens2	Soil organic carbon density in kg per cubic-m at depth 0.05 m	Kilgrams per cubic meter	ISRIC - World Soil Information
Biophysical	bio_ocdens3	Soil organic carbon density in kg per cubic-m at depth 0.15 m	Kilgrams per cubic meter	ISRIC - World Soil Information
Biophysical	bio_ocdens4	Soil organic carbon density in kg per cubic-m at depth 0.30 m	Kilgrams per cubic meter	ISRIC - World Soil Information
Biophysical	bio_ocdens5	Soil organic carbon density in kg per cubic-m at depth 0.60 m	Kilgrams per cubic meter	ISRIC - World Soil Information
Biophysical	bio_ocdens6	Soil organic carbon density in kg per cubic-m at depth 1.00 m	Kilgrams per cubic meter	ISRIC - World Soil Information
Biophysical	bio_ocdens7	Soil organic carbon density in kg per cubic-m at depth 2.00 m	Kilgrams per cubic meter	ISRIC - World Soil Information
Biophysical	bio_ocstha1	Soil organic carbon stock in tons per ha for depth interval 0.00 m - 0.05 m	Tons per hectare	ISRIC - World Soil Information
Biophysical	bio_ocstha2	Soil organic carbon stock in tons per ha for depth interval 0.05 m - 0.15 m	Tons per hectare	ISRIC - World Soil Information
Biophysical	bio_ocstha3	Soil organic carbon stock in tons per ha for depth interval 0.15 m - 0.30 m	Tons per hectare	ISRIC - World Soil Information
Biophysical	bio_ocstha4	Soil organic carbon stock in tons per ha for depth interval 0.30 m - 0.60 m	Tons per hectare	ISRIC - World Soil Information
Biophysical	bio_ocstha5	Soil organic carbon stock in tons per ha for depth interval 0.60 m - 1.00 m	Tons per hectare	ISRIC - World Soil Information
Biophysical	bio_ocstha6	Soil organic carbon stock in tons per ha for depth interval 1.00 m - 2.00 m	Tons per hectare	ISRIC - World Soil Information
Biophysical	bio_orcdrc1	Soil organic carbon content (fine earth fraction) in g per kg at depth 0.00 m	Grams of organic carbon content in grams per kilogram	ISRIC - World Soil Information
Biophysical	bio_orcdrc2	Soil organic carbon content (fine earth fraction) in g per kg at depth 0.05 m	Grams of organic carbon content in grams per kilogram	ISRIC - World Soil Information
Biophysical	bio_orcdrc3	Soil organic carbon content (fine earth fraction) in g per kg at depth 0.15 m	Grams of organic carbon content in grams per kilogram	ISRIC - World Soil Information
Biophysical	bio_orcdrc4	Soil organic carbon content (fine earth fraction) in g per kg at depth 0.30 m	Grams of organic carbon content in grams per kilogram	ISRIC - World Soil Information
Biophysical	bio_orcdrc5	Soil organic carbon content (fine earth fraction) in g per kg at depth 0.60 m	Grams of organic carbon content in grams per kilogram	ISRIC - World Soil Information
Biophysical	bio_orcdrc6	Soil organic carbon content (fine earth fraction) in g per kg at depth 1.00 m	Grams of organic carbon content in grams per kilogram	ISRIC - World Soil Information

Dataset: BIHS_household_2011_15

Category	Variable	Definition	Metric	Source
Biophysical	bio_orcdrc7	Soil organic carbon content (fine earth fraction) in g per kg at depth 2.00 m	Grams of organic carbon content in grams per kilogram	ISRIC - World Soil Information
Biophysical	bio_phihox1	Soil pH x 10 in H2O at depth 0.00 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_phihox2	Soil pH x 10 in H2O at depth 0.05 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_phihox3	Soil pH x 10 in H2O at depth 0.15 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_phihox4	Soil pH x 10 in H2O at depth 0.30 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_phihox5	Soil pH x 10 in H2O at depth 0.60 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_phihox6	Soil pH x 10 in H2O at depth 1.00 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_phihox7	Soil pH x 10 in H2O at depth 2.00 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_phikcl1	Soil pH x 10 in KCl at depth 0.00 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_phikcl2	Soil pH x 10 in KCl at depth 0.05 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_phikcl3	Soil pH x 10 in KCl at depth 0.15 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_phikcl4	Soil pH x 10 in KCl at depth 0.30 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_phikcl5	Soil pH x 10 in KCl at depth 0.60 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_phikcl6	Soil pH x 10 in KCl at depth 1.00 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_phikcl7	Soil pH x 10 in KCl at depth 2.00 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_sltppt1	Silt content (2-50 micro meter) mass fraction in % at depth 0.00 m	Percentage of silt content	ISRIC - World Soil Information
Biophysical	bio_sltppt2	Silt content (2-50 micro meter) mass fraction in % at depth 0.05 m	Percentage of silt content	ISRIC - World Soil Information
Biophysical	bio_sltppt3	Silt content (2-50 micro meter) mass fraction in % at depth 0.15 m	Percentage of silt content	ISRIC - World Soil Information
Biophysical	bio_sltppt4	Silt content (2-50 micro meter) mass fraction in % at depth 0.30 m	Percentage of silt content	ISRIC - World Soil Information
Biophysical	bio_sltppt5	Silt content (2-50 micro meter) mass fraction in % at depth 0.60 m	Percentage of silt content	ISRIC - World Soil Information
Biophysical	bio_sltppt6	Silt content (2-50 micro meter) mass fraction in % at depth 1.00 m	Percentage of silt content	ISRIC - World Soil Information
Biophysical	bio_sltppt7	Silt content (2-50 micro meter) mass fraction in % at depth 2.00 m	Percentage of silt content	ISRIC - World Soil Information
Biophysical	bio_sndppt1	Sand content (50-2000 micro meter) mass fraction in % at depth 0.00 m	Percentage of sand content	ISRIC - World Soil Information
Biophysical	bio_sndppt2	Sand content (50-2000 micro meter) mass fraction in % at depth 0.05 m	Percentage of sand content	ISRIC - World Soil Information
Biophysical	bio_sndppt3	Sand content (50-2000 micro meter) mass fraction in % at depth 0.15 m	Percentage of sand content	ISRIC - World Soil Information
Biophysical	bio_sndppt4	Sand content (50-2000 micro meter) mass fraction in % at depth 0.30 m	Percentage of sand content	ISRIC - World Soil Information
Biophysical	bio_sndppt5	Sand content (50-2000 micro meter) mass fraction in % at depth 0.60 m	Percentage of sand content	ISRIC - World Soil Information
Biophysical	bio_sndppt6	Sand content (50-2000 micro meter) mass fraction in % at depth 1.00 m	Percentage of sand content	ISRIC - World Soil Information
Biophysical	bio_sndppt7	Sand content (50-2000 micro meter) mass fraction in % at depth 2.00 m	Percentage of sand content	ISRIC - World Soil Information
Biophysical	bio_texmht1	Texture class (USDA system) at depth 0.00 m	USDA soil texture classification	ISRIC - World Soil Information

Dataset: BIHS_household_2011_15

Category	Variable	Definition	Metric	Source
Biophysical	bio_texmht2	Texture class (USDA system) at depth 0.05 m	USDA soil texture classification	ISRIC - World Soil Information
Biophysical	bio_texmht3	Texture class (USDA system) at depth 0.15 m	USDA soil texture classification	ISRIC - World Soil Information
Biophysical	bio_texmht4	Texture class (USDA system) at depth 0.30 m	USDA soil texture classification	ISRIC - World Soil Information
Biophysical	bio_texmht5	Texture class (USDA system) at depth 0.60 m	USDA soil texture classification	ISRIC - World Soil Information
Biophysical	bio_texmht6	Texture class (USDA system) at depth 1.00 m	USDA soil texture classification	ISRIC - World Soil Information
Biophysical	bio_texmht7	Texture class (USDA system) at depth 2.00 m	USDA soil texture classification	ISRIC - World Soil Information
Biophysical	bio_y_rice_a	Rice yield all	Production in kilograms	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_y_rice_h	Rice yield of high input	Production in kilograms	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_y_rice_i	Rice irrigated yield	Production in kilograms	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_y_rice_l	Rice harvesteded area of low input	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_y_rice_r	Rice rainfed harvesteded area	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_y_rice_s	Rice yield of subsistence	Production in kilograms	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_temp_01	TEMP of Jan	Monthly mean in degrees Celsius	Z. Wan, S. H. (2015). MOD11C3 MODIS/Terra Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod11c3.006
Biophysical	bio_temp_02	TEMP of Feb	Monthly mean in degrees Celsius	Z. Wan, S. H. (2015). MOD11C3 MODIS/Terra Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod11c3.006
Biophysical	bio_temp_03	TEMP of Mar	Monthly mean in degrees Celsius	Z. Wan, S. H. (2015). MOD11C3 MODIS/Terra Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod11c3.006
Biophysical	bio_temp_04	TEMP of Apr	Monthly mean in degrees Celsius	Z. Wan, S. H. (2015). MOD11C3 MODIS/Terra Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod11c3.006

Dataset: BIHS_household_2011_15

Category	Variable	Definition	Metric	Source
Biophysical	bio_temp_05	TEMP of May	Monthly mean in degrees Celsius	Z. Wan, S. H. (2015). MOD11C3 MODIS/Terra Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod 11c3.006
Biophysical	bio_temp_06	TEMP of Jun	Monthly mean in degrees Celsius	Z. Wan, S. H. (2015). MOD11C3 MODIS/Terra Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod 11c3.006
Biophysical	bio_temp_07	TEMP of Jul	Monthly mean in degrees Celsius	Z. Wan, S. H. (2015). MOD11C3 MODIS/Terra Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod 11c3.006
Biophysical	bio_temp_08	TEMP of Aug	Monthly mean in degrees Celsius	Z. Wan, S. H. (2015). MOD11C3 MODIS/Terra Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod 11c3.006
Biophysical	bio_temp_09	TEMP of Sep	Monthly mean in degrees Celsius	Z. Wan, S. H. (2015). MOD11C3 MODIS/Terra Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod 11c3.006
Biophysical	bio_temp_10	TEMP of Oct	Monthly mean in degrees Celsius	Z. Wan, S. H. (2015). MOD11C3 MODIS/Terra Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod 11c3.006
Biophysical	bio_temp_11	TEMP of Nov	Monthly mean in degrees Celsius	Z. Wan, S. H. (2015). MOD11C3 MODIS/Terra Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod 11c3.006
Biophysical	bio_temp_12	TEMP of Dec	Monthly mean in degrees Celsius	Z. Wan, S. H. (2015). MOD11C3 MODIS/Terra Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod 11c3.006
Biophysical	bio_rain_01	Rainfall of Jan	Monthly mean in millimeters	Funk, Chris, Pete Peterson, Martin Landsfeld, Diego Pedreros, James Verdin, Shraddhanand Shukla, Gregory Husak, James Rowland, Laura Harrison, Andrew Hoell & Joel Michaelsen.

Dataset: BIHS_household_2011_15

Category	Variable	Definition	Metric	Source
Biophysical	bio_rain_02	Rainfall of Feb	Monthly mean in millimeters	Funk, Chris, Pete Peterson, Martin Landsfeld, Diego Pedreros, James Verdin, Shraddhanand Shukla, Gregory Husak, James Rowland, Laura Harrison, Andrew Hoell & Joel Michaelsen.
Biophysical	bio_rain_03	Rainfall of Mar	Monthly mean in millimeters	Funk, Chris, Pete Peterson, Martin Landsfeld, Diego Pedreros, James Verdin, Shraddhanand Shukla, Gregory Husak, James Rowland, Laura Harrison, Andrew Hoell & Joel Michaelsen.
Biophysical	bio_rain_04	Rainfall of Apr	Monthly mean in millimeters	Funk, Chris, Pete Peterson, Martin Landsfeld, Diego Pedreros, James Verdin, Shraddhanand Shukla, Gregory Husak, James Rowland, Laura Harrison, Andrew Hoell & Joel Michaelsen.
Biophysical	bio_rain_05	Rainfall of May	Monthly mean in millimeters	Funk, Chris, Pete Peterson, Martin Landsfeld, Diego Pedreros, James Verdin, Shraddhanand Shukla, Gregory Husak, James Rowland, Laura Harrison, Andrew Hoell & Joel Michaelsen.
Biophysical	bio_rain_06	Rainfall of Jun	Monthly mean in millimeters	Funk, Chris, Pete Peterson, Martin Landsfeld, Diego Pedreros, James Verdin, Shraddhanand Shukla, Gregory Husak, James Rowland, Laura Harrison, Andrew Hoell & Joel Michaelsen.
Biophysical	bio_rain_07	Rainfall of Jul	Monthly mean in millimeters	Funk, Chris, Pete Peterson, Martin Landsfeld, Diego Pedreros, James Verdin, Shraddhanand Shukla, Gregory Husak, James Rowland, Laura Harrison, Andrew Hoell & Joel Michaelsen.
Biophysical	bio_rain_08	Rainfall of Aug	Monthly mean in millimeters	Funk, Chris, Pete Peterson, Martin Landsfeld, Diego Pedreros, James Verdin, Shraddhanand Shukla, Gregory Husak, James Rowland, Laura Harrison, Andrew Hoell & Joel Michaelsen.
Biophysical	bio_rain_09	Rainfall of Sep	Monthly mean in millimeters	Funk, Chris, Pete Peterson, Martin Landsfeld, Diego Pedreros, James Verdin, Shraddhanand Shukla, Gregory Husak, James Rowland, Laura Harrison, Andrew Hoell & Joel Michaelsen.
Biophysical	bio_rain_10	Rainfall of Oct	Monthly mean in millimeters	Funk, Chris, Pete Peterson, Martin Landsfeld, Diego Pedreros, James Verdin, Shraddhanand Shukla, Gregory Husak, James Rowland, Laura Harrison, Andrew Hoell & Joel Michaelsen.

Dataset: BIHS_household_2011_15

Category	Variable	Definition	Metric	Source
Biophysical	bio_rain_11	Rainfall of Nov	Monthly mean in millimeters	Funk, Chris, Pete Peterson, Martin Landsfeld, Diego Pedreros, James Verdin, Shraddhanand Shukla, Gregory Husak, James Rowland, Laura Harrison, Andrew Hoell & Joel Michaelsen.
Biophysical	bio_rain_12	Rainfall of Dec	Monthly mean in millimeters	Funk, Chris, Pete Peterson, Martin Landsfeld, Diego Pedreros, James Verdin, Shraddhanand Shukla, Gregory Husak, James Rowland, Laura Harrison, Andrew Hoell & Joel Michaelsen.
Biophysical	bio_ndvi_01	NDVI of Jan	Monthly mean range from 0 to 1	K. Didan. (2015). MYD13C2 MODIS/Aqua Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/myd13c2.006
Biophysical	bio_ndvi_02	NDVI of Feb	Monthly mean range from 0 to 1	K. Didan. (2015). MYD13C2 MODIS/Aqua Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/myd13c2.006
Biophysical	bio_ndvi_03	NDVI of Mar	Monthly mean range from 0 to 1	K. Didan. (2015). MYD13C2 MODIS/Aqua Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/myd13c2.006
Biophysical	bio_ndvi_04	NDVI of Apr	Monthly mean range from 0 to 1	K. Didan. (2015). MYD13C2 MODIS/Aqua Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/myd13c2.006
Biophysical	bio_ndvi_05	NDVI of May	Monthly mean range from 0 to 1	K. Didan. (2015). MYD13C2 MODIS/Aqua Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/myd13c2.006
Biophysical	bio_ndvi_06	NDVI of Jun	Monthly mean range from 0 to 1	K. Didan. (2015). MYD13C2 MODIS/Aqua Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/myd13c2.006
Biophysical	bio_ndvi_07	NDVI of Jul	Monthly mean range from 0 to 1	K. Didan. (2015). MYD13C2 MODIS/Aqua Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/myd13c2.006

Dataset: BIHS_household_2011_15

Category	Variable	Definition	Metric	Source
Biophysical	bio_ndvi_08	NDVI of Aug	Monthly mean range from 0 to 1	K. Didan. (2015). MYD13C2 MODIS/Aqua Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/myd13c2.006
Biophysical	bio_ndvi_09	NDVI of Sep	Monthly mean range from 0 to 1	K. Didan. (2015). MYD13C2 MODIS/Aqua Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/myd13c2.006
Biophysical	bio_ndvi_10	NDVI of Oct	Monthly mean range from 0 to 1	K. Didan. (2015). MYD13C2 MODIS/Aqua Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/myd13c2.006
Biophysical	bio_ndvi_11	NDVI of Nov	Monthly mean range from 0 to 1	K. Didan. (2015). MYD13C2 MODIS/Aqua Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/myd13c2.006
Biophysical	bio_ndvi_12	NDVI of Dec	Monthly mean range from 0 to 1	K. Didan. (2015). MYD13C2 MODIS/Aqua Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/myd13c2.006

Dataset: BIHS_child_2011_15

Category	Variable	Definition	Metric	Source
Identifier	a01	household number	Numeric identifier	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Identifier	survey_year	Survey Year	2011 or 2015	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Identifier	country_name	Country Name	String identifier	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Identifier	ISO	3-digit ISO code	3-digit string identifier	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Identifier	NAME_1	Division (level 1)	Division name string	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Identifier	NAME_2	District (level 2)	District name string	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Identifier	mid	member identification number	Member ID within household	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Identifier	hh_type	Survey sample category	Categorical variable: 1. Feed the Future; 2. Feet the Future (addl); 3. National representative	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Anthropometry	age	Child's age (month)	Child's age in months	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Anthropometry	weight	weight in kg	Child's weight in kilograms	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Anthropometry	height	height in cm	Child's height in centimeters	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Anthropometry	gender	sex of the member	Categorical variable: 1. Male; 2. Female	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Anthropometry	haz	Length/height-for-age Z-score	Z-score computed using WHO (2006) reference population	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Anthropometry	waz	Weight-for-age Z-score	Z-score computed using WHO (2006) reference population	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Anthropometry	whz	Weight-for-length/height Z-score	Z-score computed using WHO (2006) reference population	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Anthropometry	bmi	BMI-for-age Z-score	Z-score computed using WHO (2006) reference population	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Anthropometry	stunting_low	Stunting, low (haz <=-1)	Indicator variable (0/1: no/yes) on mild stunting	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Anthropometry	stunting_mod	Stunting, moderate (haz <=-2)	Indicator variable (0/1: no/yes) on moderate stunting	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Anthropometry	stunting_high	Stunting, severe (haz <=-3)	Indicator variable (0/1: no/yes) on severe stunting	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Anthropometry	underweight_low	Underweight, low (waz <=-1)	Indicator variable (0/1: no/yes) on mild underweight status	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Anthropometry	underweight_mod	Underweight, moderate (waz <=-2)	Indicator variable (0/1: no/yes) on moderate underweight status	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Anthropometry	underweight_high	Underweight, severe (waz <=-3)	Indicator variable (0/1: no/yes) on severe underweight status	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Anthropometry	wasting_low	Wasting, low (whz <=-1)	Indicator variable (0/1: no/yes) on mild wasting	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Anthropometry	wasting_mod	Wasting, moderate (whz <=-2)	Indicator variable (0/1: no/yes) on moderate wasting	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015

Dataset: BIHS_child_2011_15

Category	Variable	Definition	Metric	Source
Anthropometry	wasting_high	Wasting, severe (whz <=-3)	Indicator variable (0/1: no/yes) on severe wasting	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Demographics	hhhead_marital	Household head marital status	Categorical variable: 1. Unmarried (never married); 2. Married; 3. Widow/widower; 4. Divorced; 5. Separated/deserted	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Demographics	hhhead_religion	Household Head's religion	Categorical variable: 1. Muslim; 2. Hindu; 3. Christian	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Demographics	hhhead_gender	Household head gender	Categorical variable: 1. Male; 2. Female	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Demographics	hhhead_age	Household head age	Age of household head in years	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Demographics	hhhead_education	Household head level of education	Categorical variable: 0. Reads in class i; 1. Completed class i; 2. Completed class 2; 3. Completed class 3; 4. Completed class 4; 5. Completed class 5; 6. Completed class 6; 7. Completed class 7; 8. Completed class 8; 9. Completed class 9; 10. Completed ssc/dakhil; 12. Completed hsc/alim; 14. Ba/bsc pass/fazil; 15. Ba/bsc honors/fazil; 16. Ma/msc and above/kamil; 22. Ssc candidate; 33. Hsc candidate; 66. Preschool class (general); 67. Preschool (mosque based); 74. Diploma engineer; 76. Other; 99. Never attended school	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Demographics	hhhead_literate	Household head literacy	Categorical variable: 1. Cannot read and write; 2. Can sign only; 3. Can read only; 4. Can read and write	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Demographics	memb_total	Members, total	Number of household members	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Demographics	males	Members, male	Number of male household members	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Demographics	females	Members, female	Number of female household members	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	f_weai_feelinputdecagr	Input in productive decisions, women	Indicator variable (0/1: no/yes) on individual female component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	f_weai_incdec_count	Control over use of income, women	Indicator variable (0/1: no/yes) on individual female component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	f_weai_raiprod_any	Autonomy in production, women	Indicator variable (0/1: no/yes) on individual female component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	f_weai_jown_count	Ownership of asset, women	Indicator variable (0/1: no/yes) on individual female component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015

Dataset: BIHS_child_2011_15

Category	Variable	Definition	Metric	Source
Female Empowerment	f_weai_jrightanyagr	Purchase, sale or transfer of asset, women	Indicator variable (0/1: no/yes) on individual female component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	f_weai_credjanydec_any	Access to and decision on credit, women	Indicator variable (0/1: no/yes) on individual female component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	f_weai_speakpublic_any	Speaking in Public, women	Indicator variable (0/1: no/yes) on individual female component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	f_weai_groupmember_any	Group memeber, women	Indicator variable (0/1: no/yes) on individual female component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	f_weai_leisuretime	Leisure, women	Indicator variable (0/1: no/yes) on individual female component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	f_weai_npoor_z105	Workload, women	Indicator variable (0/1: no/yes) on individual female component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	f_weai_fivede	5DE score, women	Female score on five domains of empowerment	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	m_weai_feelinputdecagr	Input in productive decisions, men	Indicator variable (0/1: no/yes) on individual male component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	m_weai_incdec_count	Control over use of income, men	Indicator variable (0/1: no/yes) on individual male component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	m_weai_raiprod_any	Autonomy in production, men	Indicator variable (0/1: no/yes) on individual male component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	m_weai_jown_count	Ownership of asset, men	Indicator variable (0/1: no/yes) on individual male component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	m_weai_jrightanyagr	Purchase, sale or transfer of asset, men	Indicator variable (0/1: no/yes) on individual male component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	m_weai_credjanydec_any	Access to and decision on credit, men	Indicator variable (0/1: no/yes) on individual male component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	m_weai_speakpublic_any	Speaking in Public, men	Indicator variable (0/1: no/yes) on individual male component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	m_weai_groupmember_any	Group memeber, men	Indicator variable (0/1: no/yes) on individual male component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	m_weai_leisuretime	Leisure, men	Indicator variable (0/1: no/yes) on individual male component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	m_weai_npoor_z105	Workload, men	Indicator variable (0/1: no/yes) on individual male component of Women's Empowerment in Agriculture Index (WEAI)	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015

Dataset: BIHS_child_2011_15

Category	Variable	Definition	Metric	Source
Female Empowerment	m_weai_fivede	5DE score, men	Male score on five domains of empowerment	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Female Empowerment	weai_parity_gap	Gender parity gap (difference between men's and women's Five DE)	Numeric gap between men's and women's scores	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Food Security	fcs	Food Consumption Score	Numeric score on scale 0 to 120	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Food Security	hhs_total	Household Hunger Scale	Composite score ranging from 0 to 6 of three composite behaviors	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Biophysical	bio_gis_id	GIS ID	Derived identifier used to match to biophysical variables	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Biophysical	bio_latitude	HH Latitude (offset)	Randomly offset degrees North coordinates to ensure confidentiality	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Biophysical	bio_longitude	HH Longitude (offset)	Randomly offset degrees East coordinates to ensure confidentiality	Bangladesh Integrated Household Survey (BIHS) 2011 and 2015
Biophysical	bio_aez_global	Agro-ecological zones (ID)	Agro-ecological numeric ID matching with string ID	Global Agro-ecological Assessment for Agriculture in the 21st Century (GAEZ v 2.0), FAO/IIASA, 2002
Biophysical	bio_aez_name	Agro-ecological zones (NAME)	Agro-ecological string ID matching with numeric ID	Global Agro-ecological Assessment for Agriculture in the 21st Century (GAEZ v 2.0), FAO/IIASA, 2002
Biophysical	bio_bio_1	Annual Mean Temperature	Long term average since 1950 in degrees Celsius	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_10	Mean Temperature of Warmest Quarter	Long term average since 1950 in degrees Celsius	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_11	Mean Temperature of Coldest Quarter	Long term average since 1950 in degrees Celsius	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_12	Annual Precipitation	Long term average since 1950 in millimeters	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_13	Precipitation of Wettest Month	Long term average since 1950 in millimeters	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_14	Precipitation of Driest Month	Long term average since 1950 in millimeters	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_15	Precipitation Seasonality (Coefficient of Variation)	Long term average since 1950 in millimeters	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology

Dataset: BIHS_child_2011_15

Category	Variable	Definition	Metric	Source
Biophysical	bio_bio_16	Precipitation of Wettest Quarter	Long term average since 1950 in millimeters	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_17	Precipitation of Driest Quarter	Long term average since 1950 in millimeters	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_18	Precipitation of Warmest Quarter	Long term average since 1950 in millimeters	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_19	Precipitation of Coldest Quarter	Long term average since 1950 in millimeters	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_4	Temperature Seasonality (standard deviation *100)	Long term average since 1950 in degrees Celsius*100	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_5	Max Temperature of Warmest Month	Long term average since 1950 in degrees Celsius	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_6	Min Temperature of Coldest Month	Long term average since 1950 in degrees Celsius	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_7	Temperature Annual Range (P5-P6)	Long term average since 1950 in degrees Celsius	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_8	Mean Temperature of Wettest Quarter	Long term average since 1950 in degrees Celsius	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_bio_9	Mean Temperature of Driest Quarter	Long term average since 1950 in degrees Celsius	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_ndvi_mean	Mean of long term average of NDVI	Long term average since 1950 ranging from 0 to 1	K. Didan. (2015). MOD13C2 MODIS/Terra Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod13c2.006

Dataset: BIHS_child_2011_15

Category	Variable	Definition	Metric	Source
Biophysical	bio_ndvi_max	Max of long term average of NDVI	Long term average since 1950 ranging from 0 to 1	K. Didan. (2015). MOD13C2 MODIS/Terra Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod13c2.006
Biophysical	bio_ndvi_min	Min of long term average of NDVI	Long term average since 1950 ranging from 0 to 1	K. Didan. (2015). MOD13C2 MODIS/Terra Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod13c2.006
Biophysical	bio_alt	Elevation	Elevation in meters	Fick, S.E. and R.J. Hijmans, 2017. Worldclim 2: New 1-km spatial resolution climate surfaces for global land area. International Journal of climatology
Biophysical	bio_h_rice_a	Rice harvested area all	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_h_rice_h	Rice harvested area of high input	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_h_rice_i	Rice irrigated harvested area	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_h_rice_l	Rice harvesteded area of low input	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_h_rice_r	Rice rainfed harvesteded area	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_h_rice_s	Rice harvested area of subsistence	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_c_50000	Travel time to cities with population greater than 50,000	Time in minutes	Guo, Zhe; Cox, Cindy M. 2014. Market access. In Atlas of African agriculture research and development: Revealing agriculture's place in Africa. Sebastian, Kate, Ed. Pp. 66-67. Washington, D.C.: International Food Policy Research Institute (IFPRI). http://ebrary.ifpri.org/cdm/ref/collection/p15738coll2/128748 http://dx.doi.org/10.2499/9780896298460_28

Dataset: BIHS_child_2011_15

Category	Variable	Definition	Metric	Source
Biophysical	bio_c_100000	Travel time to cities with population greater than 100,000	Time in minutes	Guo, Zhe; Cox, Cindy M. 2014. Market access. In Atlas of African agriculture research and development: Revealing agriculture's place in Africa. Sebastian, Kate, Ed. Pp. 66-67. Washington, D.C.: International Food Policy Research Institute (IFPRI). http://ebrary.ifpri.org/cdm/ref/collection/p15738coll2/128748 http://dx.doi.org/10.2499/9780896298460_28
Biophysical	bio_c_250000	Travel time to cities with population greater than 250,000	Time in minutes	Guo, Zhe; Cox, Cindy M. 2014. Market access. In Atlas of African agriculture research and development: Revealing agriculture's place in Africa. Sebastian, Kate, Ed. Pp. 66-67. Washington, D.C.: International Food Policy Research Institute (IFPRI). http://ebrary.ifpri.org/cdm/ref/collection/p15738coll2/128748 http://dx.doi.org/10.2499/9780896298460_28
Biophysical	bio_c_500000	Travel time to cities with population greater than 500,000	Time in minutes	Guo, Zhe; Cox, Cindy M. 2014. Market access. In Atlas of African agriculture research and development: Revealing agriculture's place in Africa. Sebastian, Kate, Ed. Pp. 66-67. Washington, D.C.: International Food Policy Research Institute (IFPRI). http://ebrary.ifpri.org/cdm/ref/collection/p15738coll2/128748 http://dx.doi.org/10.2499/9780896298460_28
Biophysical	bio_c_20000	Travel time to cities with population greater than 20,000	Time in minutes	Guo, Zhe; Cox, Cindy M. 2014. Market access. In Atlas of African agriculture research and development: Revealing agriculture's place in Africa. Sebastian, Kate, Ed. Pp. 66-67. Washington, D.C.: International Food Policy Research Institute (IFPRI). http://ebrary.ifpri.org/cdm/ref/collection/p15738coll2/128748 http://dx.doi.org/10.2499/9780896298460_28
Biophysical	bio_a_rice_a	Rice physical area all	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_a_rice_h	Rice physical area of high input	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_a_rice_i	Rice irrigated physical area	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_a_rice_l	Rice physicaled area of low input	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.

Dataset: BIHS_child_2011_15

Category	Variable	Definition	Metric	Source
Biophysical	bio_a_rice_r	Rice rainfed physicaled area	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_a_rice_s	Rice physical area of subsistence	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_p_rice_a	Rice production all	Production in kilograms	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_p_rice_h	Rice production of high input	Production in kilograms	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_p_rice_i	Rice irrigated production	Production in kilograms	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_p_rice_l	Rice harvesteded area of low input	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_p_rice_r	Rice rainfed harvesteded area	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_p_rice_s	Rice production of subsistence	Production in kilograms	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_cecsol1	Cation exchange capacity of soil in cmolc/kg at depth 0.00 m	Centimoles per kilogram	ISRIC - World Soil Information
Biophysical	bio_cecsol2	Cation exchange capacity of soil in cmolc/kg at depth 0.05 m	Centimoles per kilogram	ISRIC - World Soil Information
Biophysical	bio_cecsol3	Cation exchange capacity of soil in cmolc/kg at depth 0.15 m	Centimoles per kilogram	ISRIC - World Soil Information
Biophysical	bio_cecsol4	Cation exchange capacity of soil in cmolc/kg at depth 0.30 m	Centimoles per kilogram	ISRIC - World Soil Information
Biophysical	bio_cecsol5	Cation exchange capacity of soil in cmolc/kg at depth 0.60 m	Centimoles per kilogram	ISRIC - World Soil Information
Biophysical	bio_cecsol6	Cation exchange capacity of soil in cmolc/kg at depth 1.00 m	Centimoles per kilogram	ISRIC - World Soil Information
Biophysical	bio_cecsol7	Cation exchange capacity of soil in cmolc/kg at depth 2.00 m	Centimoles per kilogram	ISRIC - World Soil Information
Biophysical	bio_clyppt1	Clay content (0-2 micro meter) mass fraction in % at depth 0.00 m	Percentage of clay content	ISRIC - World Soil Information
Biophysical	bio_clyppt2	Clay content (0-2 micro meter) mass fraction in % at depth 0.05 m	Percentage of clay content	ISRIC - World Soil Information
Biophysical	bio_clyppt3	Clay content (0-2 micro meter) mass fraction in % at depth 0.15 m	Percentage of clay content	ISRIC - World Soil Information
Biophysical	bio_clyppt4	Clay content (0-2 micro meter) mass fraction in % at depth 0.30 m	Percentage of clay content	ISRIC - World Soil Information

Dataset: BIHS_child_2011_15

Category	Variable	Definition	Metric	Source
Biophysical	bio_clyppt5	Clay content (0-2 micro meter) mass fraction in % at depth 0.60 m	Percentage of clay content	ISRIC - World Soil Information
Biophysical	bio_clyppt6	Clay content (0-2 micro meter) mass fraction in % at depth 1.00 m	Percentage of clay content	ISRIC - World Soil Information
Biophysical	bio_clyppt7	Clay content (0-2 micro meter) mass fraction in % at depth 2.00 m	Percentage of clay content	ISRIC - World Soil Information
Biophysical	bio_crfvol1	Coarse fragments volumetric in % at depth 0.00 m	Percentage of coarse fragments	ISRIC - World Soil Information
Biophysical	bio_crfvol2	Coarse fragments volumetric in % at depth 0.05 m	Percentage of coarse fragments	ISRIC - World Soil Information
Biophysical	bio_crfvol3	Coarse fragments volumetric in % at depth 0.15 m	Percentage of coarse fragments	ISRIC - World Soil Information
Biophysical	bio_crfvol4	Coarse fragments volumetric in % at depth 0.30 m	Percentage of coarse fragments	ISRIC - World Soil Information
Biophysical	bio_crfvol5	Coarse fragments volumetric in % at depth 0.60 m	Percentage of coarse fragments	ISRIC - World Soil Information
Biophysical	bio_crfvol6	Coarse fragments volumetric in % at depth 1.00 m	Percentage of coarse fragments	ISRIC - World Soil Information
Biophysical	bio_crfvol7	Coarse fragments volumetric in % at depth 2.00 m	Percentage of coarse fragments	ISRIC - World Soil Information
Biophysical	bio_ocdens1	Soil organic carbon density in kg per cubic-m at depth 0.00 m	Kilgrams per cubic meter	ISRIC - World Soil Information
Biophysical	bio_ocdens2	Soil organic carbon density in kg per cubic-m at depth 0.05 m	Kilgrams per cubic meter	ISRIC - World Soil Information
Biophysical	bio_ocdens3	Soil organic carbon density in kg per cubic-m at depth 0.15 m	Kilgrams per cubic meter	ISRIC - World Soil Information
Biophysical	bio_ocdens4	Soil organic carbon density in kg per cubic-m at depth 0.30 m	Kilgrams per cubic meter	ISRIC - World Soil Information
Biophysical	bio_ocdens5	Soil organic carbon density in kg per cubic-m at depth 0.60 m	Kilgrams per cubic meter	ISRIC - World Soil Information
Biophysical	bio_ocdens6	Soil organic carbon density in kg per cubic-m at depth 1.00 m	Kilgrams per cubic meter	ISRIC - World Soil Information
Biophysical	bio_ocdens7	Soil organic carbon density in kg per cubic-m at depth 2.00 m	Kilgrams per cubic meter	ISRIC - World Soil Information
Biophysical	bio_ocstha1	Soil organic carbon stock in tons per ha for depth interval 0.00 m - 0.05 m	Tons per hectare	ISRIC - World Soil Information
Biophysical	bio_ocstha2	Soil organic carbon stock in tons per ha for depth interval 0.05 m - 0.15 m	Tons per hectare	ISRIC - World Soil Information
Biophysical	bio_ocstha3	Soil organic carbon stock in tons per ha for depth interval 0.15 m - 0.30 m	Tons per hectare	ISRIC - World Soil Information
Biophysical	bio_ocstha4	Soil organic carbon stock in tons per ha for depth interval 0.30 m - 0.60 m	Tons per hectare	ISRIC - World Soil Information
Biophysical	bio_ocstha5	Soil organic carbon stock in tons per ha for depth interval 0.60 m - 1.00 m	Tons per hectare	ISRIC - World Soil Information
Biophysical	bio_ocstha6	Soil organic carbon stock in tons per ha for depth interval 1.00 m - 2.00 m	Tons per hectare	ISRIC - World Soil Information
Biophysical	bio_orcdrc1	Soil organic carbon content (fine earth fraction) in g per kg at depth 0.00 m	Grams of organic carbon content in grams per kilogram	ISRIC - World Soil Information
Biophysical	bio_orcdrc2	Soil organic carbon content (fine earth fraction) in g per kg at depth 0.05 m	Grams of organic carbon content in grams per kilogram	ISRIC - World Soil Information
Biophysical	bio_orcdrc3	Soil organic carbon content (fine earth fraction) in g per kg at depth 0.15 m	Grams of organic carbon content in grams per kilogram	ISRIC - World Soil Information
Biophysical	bio_orcdrc4	Soil organic carbon content (fine earth fraction) in g per kg at depth 0.30 m	Grams of organic carbon content in grams per kilogram	ISRIC - World Soil Information
Biophysical	bio_orcdrc5	Soil organic carbon content (fine earth fraction) in g per kg at depth 0.60 m	Grams of organic carbon content in grams per kilogram	ISRIC - World Soil Information
Biophysical	bio_orcdrc6	Soil organic carbon content (fine earth fraction) in g per kg at depth 1.00 m	Grams of organic carbon content in grams per kilogram	ISRIC - World Soil Information

Dataset: BIHS_child_2011_15

Category	Variable	Definition	Metric	Source
Biophysical	bio_orcdrc7	Soil organic carbon content (fine earth fraction) in g per kg at depth 2.00 m	Grams of organic carbon content in grams per kilogram	ISRIC - World Soil Information
Biophysical	bio_phihox1	Soil pH x 10 in H2O at depth 0.00 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_phihox2	Soil pH x 10 in H2O at depth 0.05 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_phihox3	Soil pH x 10 in H2O at depth 0.15 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_phihox4	Soil pH x 10 in H2O at depth 0.30 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_phihox5	Soil pH x 10 in H2O at depth 0.60 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_phihox6	Soil pH x 10 in H2O at depth 1.00 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_phihox7	Soil pH x 10 in H2O at depth 2.00 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_phikcl1	Soil pH x 10 in KCl at depth 0.00 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_phikcl2	Soil pH x 10 in KCl at depth 0.05 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_phikcl3	Soil pH x 10 in KCl at depth 0.15 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_phikcl4	Soil pH x 10 in KCl at depth 0.30 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_phikcl5	Soil pH x 10 in KCl at depth 0.60 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_phikcl6	Soil pH x 10 in KCl at depth 1.00 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_phikcl7	Soil pH x 10 in KCl at depth 2.00 m	pH x 10	ISRIC - World Soil Information
Biophysical	bio_sltppt1	Silt content (2-50 micro meter) mass fraction in % at depth 0.00 m	Percentage of silt content	ISRIC - World Soil Information
Biophysical	bio_sltppt2	Silt content (2-50 micro meter) mass fraction in % at depth 0.05 m	Percentage of silt content	ISRIC - World Soil Information
Biophysical	bio_sltppt3	Silt content (2-50 micro meter) mass fraction in % at depth 0.15 m	Percentage of silt content	ISRIC - World Soil Information
Biophysical	bio_sltppt4	Silt content (2-50 micro meter) mass fraction in % at depth 0.30 m	Percentage of silt content	ISRIC - World Soil Information
Biophysical	bio_sltppt5	Silt content (2-50 micro meter) mass fraction in % at depth 0.60 m	Percentage of silt content	ISRIC - World Soil Information
Biophysical	bio_sltppt6	Silt content (2-50 micro meter) mass fraction in % at depth 1.00 m	Percentage of silt content	ISRIC - World Soil Information
Biophysical	bio_sltppt7	Silt content (2-50 micro meter) mass fraction in % at depth 2.00 m	Percentage of silt content	ISRIC - World Soil Information
Biophysical	bio_sndppt1	Sand content (50-2000 micro meter) mass fraction in % at depth 0.00 m	Percentage of sand content	ISRIC - World Soil Information
Biophysical	bio_sndppt2	Sand content (50-2000 micro meter) mass fraction in % at depth 0.05 m	Percentage of sand content	ISRIC - World Soil Information
Biophysical	bio_sndppt3	Sand content (50-2000 micro meter) mass fraction in % at depth 0.15 m	Percentage of sand content	ISRIC - World Soil Information
Biophysical	bio_sndppt4	Sand content (50-2000 micro meter) mass fraction in % at depth 0.30 m	Percentage of sand content	ISRIC - World Soil Information
Biophysical	bio_sndppt5	Sand content (50-2000 micro meter) mass fraction in % at depth 0.60 m	Percentage of sand content	ISRIC - World Soil Information
Biophysical	bio_sndppt6	Sand content (50-2000 micro meter) mass fraction in % at depth 1.00 m	Percentage of sand content	ISRIC - World Soil Information
Biophysical	bio_sndppt7	Sand content (50-2000 micro meter) mass fraction in % at depth 2.00 m	Percentage of sand content	ISRIC - World Soil Information
Biophysical	bio_texmht1	Texture class (USDA system) at depth 0.00 m	USDA soil texture classification	ISRIC - World Soil Information

Dataset: BIHS_child_2011_15

Category	Variable	Definition	Metric	Source
Biophysical	bio_texmht2	Texture class (USDA system) at depth 0.05 m	USDA soil texture classification	ISRIC - World Soil Information
Biophysical	bio_texmht3	Texture class (USDA system) at depth 0.15 m	USDA soil texture classification	ISRIC - World Soil Information
Biophysical	bio_texmht4	Texture class (USDA system) at depth 0.30 m	USDA soil texture classification	ISRIC - World Soil Information
Biophysical	bio_texmht5	Texture class (USDA system) at depth 0.60 m	USDA soil texture classification	ISRIC - World Soil Information
Biophysical	bio_texmht6	Texture class (USDA system) at depth 1.00 m	USDA soil texture classification	ISRIC - World Soil Information
Biophysical	bio_texmht7	Texture class (USDA system) at depth 2.00 m	USDA soil texture classification	ISRIC - World Soil Information
Biophysical	bio_y_rice_a	Rice yield all	Production in kilograms	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_y_rice_h	Rice yield of high input	Production in kilograms	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_y_rice_i	Rice irrigated yield	Production in kilograms	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_y_rice_l	Rice harvesteded area of low input	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_y_rice_r	Rice rainfed harvesteded area	Hectares	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_y_rice_s	Rice yield of subsistence	Production in kilograms	You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0.
Biophysical	bio_temp_01	TEMP of Jan	Monthly mean in degrees Celsius	Z. Wan, S. H. (2015). MOD11C3 MODIS/Terra Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod11c3.006
Biophysical	bio_temp_02	TEMP of Feb	Monthly mean in degrees Celsius	Z. Wan, S. H. (2015). MOD11C3 MODIS/Terra Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod11c3.006
Biophysical	bio_temp_03	TEMP of Mar	Monthly mean in degrees Celsius	Z. Wan, S. H. (2015). MOD11C3 MODIS/Terra Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod11c3.006
Biophysical	bio_temp_04	TEMP of Apr	Monthly mean in degrees Celsius	Z. Wan, S. H. (2015). MOD11C3 MODIS/Terra Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod11c3.006

Dataset: BIHS_child_2011_15

Category	Variable	Definition	Metric	Source
Biophysical	bio_temp_05	TEMP of May	Monthly mean in degrees Celsius	Z. Wan, S. H. (2015). MOD11C3 MODIS/Terra Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod 11c3.006
Biophysical	bio_temp_06	TEMP of Jun	Monthly mean in degrees Celsius	Z. Wan, S. H. (2015). MOD11C3 MODIS/Terra Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod 11c3.006
Biophysical	bio_temp_07	TEMP of Jul	Monthly mean in degrees Celsius	Z. Wan, S. H. (2015). MOD11C3 MODIS/Terra Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod 11c3.006
Biophysical	bio_temp_08	TEMP of Aug	Monthly mean in degrees Celsius	Z. Wan, S. H. (2015). MOD11C3 MODIS/Terra Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod 11c3.006
Biophysical	bio_temp_09	TEMP of Sep	Monthly mean in degrees Celsius	Z. Wan, S. H. (2015). MOD11C3 MODIS/Terra Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod 11c3.006
Biophysical	bio_temp_10	TEMP of Oct	Monthly mean in degrees Celsius	Z. Wan, S. H. (2015). MOD11C3 MODIS/Terra Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod 11c3.006
Biophysical	bio_temp_11	TEMP of Nov	Monthly mean in degrees Celsius	Z. Wan, S. H. (2015). MOD11C3 MODIS/Terra Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod 11c3.006
Biophysical	bio_temp_12	TEMP of Dec	Monthly mean in degrees Celsius	Z. Wan, S. H. (2015). MOD11C3 MODIS/Terra Land Surface Temperature/Emissivity Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/mod 11c3.006
Biophysical	bio_rain_01	Rainfall of Jan	Monthly mean in millimeters	Funk, Chris, Pete Peterson, Martin Landsfeld, Diego Pedreros, James Verdin, Shraddhanand Shukla, Gregory Husak, James Rowland, Laura Harrison, Andrew Hoell & Joel Michaelsen.

Dataset: BIHS_child_2011_15

Category	Variable	Definition	Metric	Source
Biophysical	bio_rain_02	Rainfall of Feb	Monthly mean in millimeters	Funk, Chris, Pete Peterson, Martin Landsfeld, Diego Pedreros, James Verdin, Shraddhanand Shukla, Gregory Husak, James Rowland, Laura Harrison, Andrew Hoell & Joel Michaelsen.
Biophysical	bio_rain_03	Rainfall of Mar	Monthly mean in millimeters	Funk, Chris, Pete Peterson, Martin Landsfeld, Diego Pedreros, James Verdin, Shraddhanand Shukla, Gregory Husak, James Rowland, Laura Harrison, Andrew Hoell & Joel Michaelsen.
Biophysical	bio_rain_04	Rainfall of Apr	Monthly mean in millimeters	Funk, Chris, Pete Peterson, Martin Landsfeld, Diego Pedreros, James Verdin, Shraddhanand Shukla, Gregory Husak, James Rowland, Laura Harrison, Andrew Hoell & Joel Michaelsen.
Biophysical	bio_rain_05	Rainfall of May	Monthly mean in millimeters	Funk, Chris, Pete Peterson, Martin Landsfeld, Diego Pedreros, James Verdin, Shraddhanand Shukla, Gregory Husak, James Rowland, Laura Harrison, Andrew Hoell & Joel Michaelsen.
Biophysical	bio_rain_06	Rainfall of Jun	Monthly mean in millimeters	Funk, Chris, Pete Peterson, Martin Landsfeld, Diego Pedreros, James Verdin, Shraddhanand Shukla, Gregory Husak, James Rowland, Laura Harrison, Andrew Hoell & Joel Michaelsen.
Biophysical	bio_rain_07	Rainfall of Jul	Monthly mean in millimeters	Funk, Chris, Pete Peterson, Martin Landsfeld, Diego Pedreros, James Verdin, Shraddhanand Shukla, Gregory Husak, James Rowland, Laura Harrison, Andrew Hoell & Joel Michaelsen.
Biophysical	bio_rain_08	Rainfall of Aug	Monthly mean in millimeters	Funk, Chris, Pete Peterson, Martin Landsfeld, Diego Pedreros, James Verdin, Shraddhanand Shukla, Gregory Husak, James Rowland, Laura Harrison, Andrew Hoell & Joel Michaelsen.
Biophysical	bio_rain_09	Rainfall of Sep	Monthly mean in millimeters	Funk, Chris, Pete Peterson, Martin Landsfeld, Diego Pedreros, James Verdin, Shraddhanand Shukla, Gregory Husak, James Rowland, Laura Harrison, Andrew Hoell & Joel Michaelsen.
Biophysical	bio_rain_10	Rainfall of Oct	Monthly mean in millimeters	Funk, Chris, Pete Peterson, Martin Landsfeld, Diego Pedreros, James Verdin, Shraddhanand Shukla, Gregory Husak, James Rowland, Laura Harrison, Andrew Hoell & Joel Michaelsen.

Dataset: BIHS_child_2011_15

Category	Variable	Definition	Metric	Source
Biophysical	bio_rain_11	Rainfall of Nov	Monthly mean in millimeters	Funk, Chris, Pete Peterson, Martin Landsfeld, Diego Pedreros, James Verdin, Shraddhanand Shukla, Gregory Husak, James Rowland, Laura Harrison, Andrew Hoell & Joel Michaelsen.
Biophysical	bio_rain_12	Rainfall of Dec	Monthly mean in millimeters	Funk, Chris, Pete Peterson, Martin Landsfeld, Diego Pedreros, James Verdin, Shraddhanand Shukla, Gregory Husak, James Rowland, Laura Harrison, Andrew Hoell & Joel Michaelsen.
Biophysical	bio_ndvi_01	NDVI of Jan	Monthly mean range from 0 to 1	K. Didan. (2015). MYD13C2 MODIS/Aqua Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/myd13c2.006
Biophysical	bio_ndvi_02	NDVI of Feb	Monthly mean range from 0 to 1	K. Didan. (2015). MYD13C2 MODIS/Aqua Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/myd13c2.006
Biophysical	bio_ndvi_03	NDVI of Mar	Monthly mean range from 0 to 1	K. Didan. (2015). MYD13C2 MODIS/Aqua Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/myd13c2.006
Biophysical	bio_ndvi_04	NDVI of Apr	Monthly mean range from 0 to 1	K. Didan. (2015). MYD13C2 MODIS/Aqua Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/myd13c2.006
Biophysical	bio_ndvi_05	NDVI of May	Monthly mean range from 0 to 1	K. Didan. (2015). MYD13C2 MODIS/Aqua Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/myd13c2.006
Biophysical	bio_ndvi_06	NDVI of Jun	Monthly mean range from 0 to 1	K. Didan. (2015). MYD13C2 MODIS/Aqua Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/myd13c2.006
Biophysical	bio_ndvi_07	NDVI of Jul	Monthly mean range from 0 to 1	K. Didan. (2015). MYD13C2 MODIS/Aqua Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/myd13c2.006

Dataset: BIHS_child_2011_15

Category	Variable	Definition	Metric	Source
Biophysical	bio_ndvi_08	NDVI of Aug	Monthly mean range from 0 to 1	K. Didan. (2015). MYD13C2 MODIS/Aqua Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/myd13c2.006
Biophysical	bio_ndvi_09	NDVI of Sep	Monthly mean range from 0 to 1	K. Didan. (2015). MYD13C2 MODIS/Aqua Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/myd13c2.006
Biophysical	bio_ndvi_10	NDVI of Oct	Monthly mean range from 0 to 1	K. Didan. (2015). MYD13C2 MODIS/Aqua Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/myd13c2.006
Biophysical	bio_ndvi_11	NDVI of Nov	Monthly mean range from 0 to 1	K. Didan. (2015). MYD13C2 MODIS/Aqua Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/myd13c2.006
Biophysical	bio_ndvi_12	NDVI of Dec	Monthly mean range from 0 to 1	K. Didan. (2015). MYD13C2 MODIS/Aqua Vegetation Indices Monthly L3 Global 0.05Deg CMG V006. NASA EOSDIS Land Processes DAAC. https://doi.org/10.5067/modis/myd13c2.006