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Supplementary appendix

This appendix formed part of the original submission and has been peer reviewed. We post it as supplied by the authors.

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Description of data assessment, standardization, and analysis
Data assessment

Data received from corresponding members or from publicly available surveys were checked to confirm survey-level characteristics; dietary intake variables were categorized into GDD dietary factors; necessary unit and format conversions were noted. Data-owners or survey directors were contacted extensively to resolve questions about data quality, categorization, or assessment methods to ensure accuracy and completeness of data prior to analysis.

Preliminary data checks

Biostatisticians generated survey description files for each survey including survey characteristics, variable lists, and summary statistics for categorical and continuous variables. Research assistants used these description files to assess inclusion of survey level information and demographic variables. Discrepancies between author-reported characteristics and those ultimately included in the dataset were noted for further discussion with the data-owner.

Categorization of variables into GDD dietary factors

Research assistants matched reported dietary data to GDD dietary factors. This involved categorizing foods, nutrients, mixed dishes, and regional items into the matched GDD dietary factor, noting cases where variables represented less than the optimal GDD definition. Unit conversions were included as necessary to transform variables into the optimal GDD units.

Categorization of variables into GDD dietary factors – Food Frequency Questionnaires

To transform food and beverage data reported from Food Frequency Questionnaires into optimal GDD units, most often grams per day, all categorical variables were standardized into single daily serving units. When ranges of frequencies were provided, the mean of each range was utilized to represent each frequency category. Variables reported in times per week were divided by 7 to calculate the average daily servings. Variables reported in times per month were divided by 30·42 (the average number of days in a month) to calculate the average daily servings. In cases where the upper range was open-ended (e.g., "5 or more times per week"), the ranges of the other frequency categories were used to calculate an upper limit. Servings per day were then converted into grams per day by multiplying the number of servings by the author-reported serving sizes or by the GDD standard serving sizes.

Communication with data owners and creation of data key

Any questions regarding the data, including those about region-specific diets (e.g., disaggregation of mixed dishes, classification of regional items), survey-level characteristics, and serving sizes for foods and beverages, were communicated to the data owner. After all questions regarding the data were answered, research assistants generated a data key outlining all available variables of interest, including demographic and dietary variables. Categorizations of dietary variables were turned into STATA code for clear identification and research assistants flagged the quality assurance checks.

Converting household data to individual data

Household-level data were transformed into individual-level data using the Adult Male Equivalent (AME) method. The AME method estimates individual-level intakes by assigning each household member a reference AME based on their age and sex. Household members' reference AMEs are summed to find total household AME. Each individual's reference AME is then divided by the total household AME to find individual-level AME. This individual-level AME represents the proportion each individual contributes to the overall household AME. This

individual level proportion is multiplied by the household consumption of each food item to estimate individual-level intake.

Data aggregation

Using preliminary checking documents provided by research assistants, biostatisticians converted individual-level data into aggregated outputs for each dietary factor stratified by the available demographic variables. Stata version 12 was used to convert all demographic and dietary variables from raw data files to a single data file containing only relevant variables. Missing observations were excluded from the dataset and all variables were recoded to match the GDD demographic and dietary variable coding scheme. Data were then aggregated into demographic strata by age, sex, residence, education, and pregnancy/lactating status. In addition to the single, final data file, supporting files were generated including a summary report, minimum/maximum values for each dietary factor, and group level means, standard deviations, and percentiles of intake. All output files were stored in each survey's specific folder on the Tufts GDD Box, accessible to all members of the research team.

Energy adjustment

We extracted both raw and energy-adjusted data when available. If energy adjustment of individual-level data had not been completed by the data owner, biostatisticians completed energy adjustment at the aggregation stage to age-specific levels using the residual method. This approach was considered the "gold standard." We adjusted for total energy intake to mitigate the effects of measurement error in data collection, account for differences in energy requirements related to body size, metabolic efficiency and physical activity, and facilitate comparisons between surveys, age groups, and sexes.

Total daily energy values by age	
Age (years)	Daily energy intake (kcal)
<1	700
1-2	1,000
2-5	1,300
6-10	1,700
11-74	2,000
75+	1,700

Child and older adult-specific daily energy values were selected using dietary recommendations and mean population ranges from the USA, United Kingdom, and India.

Energy adjustment corrections

We initially asked that all data be shared both unadjusted and energy-adjusted to 2,000 kcal, regardless of age category, but retrospectively changed this decision to reflect the age-specific levels. When possible, energy adjustment using the residual method was repeated to reflect these changes. In some cases, this approach was not possible, and thus alternative approaches for energy adjustment correction were taken.

Energy adjustment correction of aggregate ("stratum-level") data
In some cases, data were provided or accessed at the stratum level (i.e., age group, sex, education level, etc.). In these cases, energy adjustment correction depended on whether 2,000 kcal/day-adjusted values had previously been provided by the data owner. If energy-adjusted data had been provided, a simple ratio of the age-specific level to 2,000 kcal was applied post-hoc to convert the value to the correct energy level. If stratum-level data were only provided in an unadjusted format but with corresponding total energy intake, intake was adjusted to the age-specific energy level using the energy density method, in which a simple ratio of reported calorie intake to age-specific level was applied to the unadjusted value. If stratum-level data were provided in age groups which traversed more than one level of age-specific energy intake, a weighted mean daily energy intake was calculated. This weighted mean daily energy level was then used to adjust intake using the ratio readjustment method. If only unadjusted intake was available, the energy density method was used.

Energy adjustment of data without adjusted values or total energy intake
In limited cases, individual-level data were not initially energy-adjusted or provided with mean caloric intake data, precluding the use of the gold standard and ratio readjustment methods. In these instances, daily per capita energy availability data from FAO Food Balance Sheets (FBS) were used to inform stratum-level caloric intake. In short, country-year-specific FBS energy data were adjusted using coefficients derived from a multivariate linear regression of GDD input data, FBS data, and both regional and survey-level covariates. Adjusted FBS energy was then corrected to the prescribed energy level by applying a factor of the energy level's proportion of 2,000 kcal. Unadjusted food and nutrient intake values were then adjusted with this corrected energy intake via the energy density method.

Quality control
Data integrity and quality were assessed at each step during survey collection, processing, harmonization, and analyses. Duplicate reviews were performed of recorded survey characteristics, demographic variables, dietary definition classifications, and unit conversions. To assess for outliers and validity (errors) in reported intakes, plausibility thresholds were defined for each dietary factor, both at the individual level and stratum (e.g., group mean) level, based on dietary reference intakes, tolerable upper limits, toxicity ranges, and existing regional data on mean intakes in populations. Any value identified as potentially implausible was reviewed for extraction errors, followed by direct correspondence with the corresponding member or public survey data owners, to detect and correct potential errors. Data remaining implausible after such steps were excluded from final datasets. Results for each dietary factor were further graphed and visually inspected by country, age, sex, dietary assessment method, representativeness, and time, reviewing survey result plausibility and consistency within and across countries.

Data finalization
After data has been finalized for inclusion, it is stored within the Access database, which houses information on all surveys, corresponding authors, and survey checking statuses. Aggregated data is collated by dietary factor and prepared for input into the GDD prediction model.

Protocol for converting FFQ frequency data into GDD servings

1. Step 1- Standardize the categorical frequency variables to a single daily serving unit
   a. If a range of frequencies is given, take the mean ("Avg") of the range
   b. If the frequency is presented in times/week, divide by 7 (for days in a week)
   c. If the frequency is presented in times/month, divide by 30·42 (average days in a month)
      i. *Note:* If the category is presented as days/week instead of times/week, assume one serving per day and treat as times/week
      ii. Example A) 5-7 days/week = (6 days/week) / (7days/week) = 0·857 servings/day
      iii. Example B) 1-3 times/month = (2 times/month) / (30.42 days/month) = 0·066 servings/day
   d. If the upper range is open ended, use the range of the other frequency categories in the survey to create an upper limit and then take the average of that range.
      i. Example: "5 or more times per week" where next lowest level is 2-4 times per week. Assume a range of 5-7 times per week, take the average (6 times per week)/(7 days/week) = 0·857 servings/day
2. Step 2- Convert servings to grams
   a. If available, survey-specific serving sizes were used for conversions.
   b. If survey-specific serving sizes are not available, ask the data owner for usual, country-specific serving sizes.
   c. If data owner does not provide country-specific serving sizes, utilize country-specific serving sizes identified from national agencies (e.g., USDA).
   d. If no country-specific serving sizes are identified, use the GDD standard serving size conversions.

Common categories of intake and their servings per day conversions

Categorical Variable	Calculation	Daily Serving
Never	0	0
Occasional-Few times/year*	Should capture the range of values between never and the next highest choice based on the data set	*Depends on next level categorization
Less than once a month (1-11 times per year)	1+11=12/2=6 Avg servings/year 6/12 months=0.5 servings/month 0·5/30·42 days	0·0164
1-3 times/month	1+3=4/2=2 Avg servings/month 2/30·42 days	0·066
1/week	1 servings/7 days	0·143
2-4 days/week	2+4=6/2=3 Avg servings/week 3servings/7 days	0·429
5-6 days/week	5+6=11/2= 5.5 Avg servings/week 5·5/7 days	0·786
5-7 days/week	5+7=12/2=6 Avg servings/week 6/7 days	0·857
1/day		1
2-3/day	2+3=5/2= Avg 2·5 servings	2·5
4-5/day	4+5=9/2= Avg 4·5 servings	4·5

Common weight conversions

Provided weight	Grams
1 Kilogram	1000
1 Ounce *Cannot use for fluid ounces	28
1 Pound	454

Standard serving sizes for foods and beverages

Dietary factor		Reference serving sizes	"Usual" average serving sizes (g/serving)		
Variable Code	Variable name	2003-06 US NHANES (median)	Adults and children older than 2 years	12-24 months	6 to 11 months
v09	Processed meats	53·705 g per serving	50	41	31
v10	Red meats	85 g per serving	100	32	24
v11	Seafood*	85·78 g per serving	100	30	23
v12	Eggs*	-	55	59	44
v13	Cheese*	-	42	22	20
v14	Yogurt*	-	245	104	88
v57	Milk*	198·25 g per serving	245	161	155

*Calculated using average of item-specific serving sizes from the USDA Nutrient Database.
°Calculated using average if both item-specific serving sizes from the USDA Nutrient Database and intake from NHANES 2003-2006.

Table S1. Definitions and units of animal source foods.

Dietary factor	Unit	Preferred definition	Alternative definition
Unprocessed red meat	g/day	Total intake of unprocessed red meat, defined as beef, pork, lamb, mutton, or game that has not been cured, smoked, dried, or chemically preserved. This definition excludes poultry, fish, and eggs.	Includes processed red meats, poultry, fish, and organ meats.
Processed meat	g/day	Total intake of processed meat, defined as any meat (including poultry) that has been cured, smoked, dried, or chemically preserved. Examples include bacon, salami, sausages, hot dogs, and processed deli or luncheon meats. This definition excludes fish and eggs.	Includes sausages and unprocessed meats.
Seafood	g/day	Total intake of fish and shellfish. Examples include salmon, tuna, trout, tilapia, shrimp, crab, oysters, and cephalopods.	Includes salted fish, processed fish and other animal products.
Egg	g/day	Total intake of eggs produced by poultry/birds, including chicken, goose, or duck eggs. This definition excludes fish eggs.	
Cheese	g/day	Total intake of cheese derived from the milk of livestock (e.g., cows, buffalo, yak), including hard cheese (e.g., cheddar, mozzarella, Swiss), soft cheese (e.g., ricotta, cottage cheese, paneer), and processed cheese.	Includes yogurt, milk products and cheese.
Yogurt	g/day	Total intake of yogurt and fermented milk, including reduced-fat and full-fat yogurt.	Includes dairy curd, buttermilk, paneer, cheese, and milk.
Milk	g/day	Total intake of dairy milk including non-fat, low-fat, skim, and whole-fat milk. This definition excludes yogurt, fermented milk, and soy or other plant derived milk (e.g., coconut milk, almond milk).	Includes yogurt, dairy drinks, cheese, and dairy products.

Table S2. Countries, regions, and super-regions included in GDD 2018 (N=185).

Region	Countries
Southeast and East Asia super-region (N=24)	
East Asia (N=2)	China, Taiwan
Southeast Asia (N=9)	Cambodia, Indonesia, Lao People's Democratic Republic, Malaysia, Myanmar, The Philippines, Thailand, Timor-Leste, Viet Nam
Asia-Pacific high income (N=4)	Brunei Darussalam, Japan, Republic of Korea, Singapore
Oceania (N=9)	Fiji, Kiribati, Marshall Islands, Micronesia, Papua New Guinea, Samoa, Solomon Islands, Tonga, Vanuatu
Central/Eastern Europe and Central Asia (N=29)	
Central Asia (N=9)	Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan, Mongolia, Tajikistan, Turkmenistan, Uzbekistan
Central Europe (N=13)	Albania, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Hungary, Montenegro, Poland, Romania, Serbia, Slovakia, Slovenia, The former Yugoslav Republic of Macedonia
Eastern Europe (N=7)	Belarus, Estonia, Latvia, Lithuania, Republic of Moldova, Russian Federation, Ukraine
Latin America and Caribbean super-region (N=32)	
Caribbean (N=15)	Antigua and Barbuda, Bahamas, Barbados, Belize, Cuba, Dominica, Dominican Republic, Grenada, Guyana, Haiti, Jamaica, Saint Lucia, Saint Vincent and the Grenadines, Suriname, Trinidad and Tobago
Andean Latin America (N=3)	Bolivia, Ecuador, Peru
Central Latin America (N=9)	Colombia, Costa Rica, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Panama, Venezuela
Southern Latin America (N=3)	Argentina, Chile, Uruguay

Tropical Latin America (N=2)	Brazil, Paraguay

Middle East and Northern Africa super-region (N=20)

Western Europe (N=1)	Israel
North Africa and Middle East (N=18)	Algeria, Bahrain, Egypt, Iran (Islamic Republic of), Iraq, Jordan, Kuwait, Lebanon, Morocco, Occupied Palestinian Territory, Oman, Qatar, Saudi Arabia, Syrian Arab Republic, Tunisia, Turkey, United Arab Emirates, Yemen

South Asia super-region (N=8)

South Asia (N=6)	Afghanistan, Bangladesh, Bhutan, India, Nepal, Pakistan
Southeast Asia (N=2)	The Maldives, Sri Lanka

Sub-Saharan Africa super-region (N=48)

Central Sub-Saharan Africa (N=6)	Angola, Central African Republic, Congo, Democratic Republic of Congo, Equatorial Guinea, Gabon
Eastern Sub-Saharan Africa (N=17)	Burundi, Comoros, Djibouti, Eritrea, Ethiopia, Kenya, Madagascar, Malawi, Mauritius, Mozambique, Rwanda, Seychelles, South Sudan, Sudan, Uganda, United Republic of Tanzania, Zambia
Southern Sub-Saharan Africa (N=6)	Botswana, Lesotho, Namibia, South Africa, Swaziland, Zimbabwe
Western Sub-Saharan Africa (N=19)	Benin, Burkina Faso, Cameroon, Cape Verde, Chad, Côte d'Ivoire, the Gambia, Ghana, Guinea, Guinea-Bissau, Liberia, Mali, Mauritania, Niger, Nigeria, São Tomé and Príncipe, Senegal, Sierra Leone, Togo

High-Income Countries super-region (N=24)

Australasia (N=2)	Australia, New Zealand

Western Europe (N=20)	Austria, Belgium, Cyprus, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom
North America high-income (N=2)	Canada, United States of America

We included countries: 1) classified as United Nations (UN) Member States, 2) included in the United Nations Food and Agriculture Food Balance Sheets database, or 3) included in the World Bank Gross Domestic Product database.

The region Central/Eastern Europe and Central Asia was previously called the Former Soviet Union in prior GDD reports.

The region Southeast and East Asia was previously called Asia in prior GDD reports.

Covariates

Covariate identification
We identified country- and time-specific covariate data from various sources to further inform our model predictions. These data supplement our individual-level dietary intake data, particularly in countries for which these inputs are limited. We consulted experts and conducted comprehensive searches of publicly available databases to identify >800 covariates. We prioritized approximately 400 covariates for testing:

Data source	Year(s)
UN FAO food balance sheets	1980 - 2018
Harvard Global Expanded Nutrient Supply (GENuS)	1980 - 2011
Principal component analysis of FAO and GENuS data	2013
Euromonitor fat and oils sales data	1998 - 2018
World Bank Gross Domestic Product (GDP)	1980 - 2018
World Bank unemployment rate	1980 - 2015
World Bank gini coefficient	1980 - 2015
World Bank poverty rate	1980 - 2015
Barro Lee years of schooling	1980 - 2010
World Bank precipitation	1982 - 2014
CIA Factbook latitude	N/A
CIA Factbook land area	N/A
CIA Factbook coastline ratio	N/A

Percentage of country-years imputed for each covariate source: GDP=3%; unemployment rate=7%; food balance sheets=11%; fat and oil sales data=11%; GENuS=26%; gini coefficient and poverty rate=28%; education=87%.

We conducted principal component analysis (PCA) using the 'princomp' function in R separately for: 1) 23 grouped FAO food balance sheet (FBS) foods, beverages, and energy, 2) 142 GENuS foods, and beverages, and 3) 19 GENuS nutrients and energy. The first four components from each PCA were considered for covariate testing.

Covariate imputation and truncation
If covariate data were missing for some (but not all) years of a given country, we used linear interpolation to fill in those years. Covariate data sources that ended before 2018 were imputed using a moving average of the three most recent values to obtain values for all covariates through the year 2018. Region-level means were assigned to countries for which entire covariates were missing. To assess validity of the imputations, we imputed non-missing values with the same model and visually compared observed versus imputed values via scatter plots.

The GDD prediction model operates on the natural log scale (except for dietary factors measured as proportions), including the covariate data. To reduce the risk of having very small values for covariates with a broad range of values on the log scale having an outsized influence on modeled estimates, we truncated covariate data on the non-transformed scale using the following rules:

For covariates with a 95th percentile value
1. >3·5: Truncate values <0·5 to 0·5
2. ≥1 and ≤3·5: Truncate values <0·1 to 0·1
3. <1: No truncation

Covariate testing

For each dietary factor, we calculated the correlations between covariates and original survey-level stratified mean dietary intakes, and we selected up to 10 covariates for model inclusion, favoring those with the highest correlations, a mix of food/nutrients and other covariates, and sensible links to the dietary factor.

Each of the covariates identified in the correlation stage (maximum 10 covariates) and the four PCA components were then included in a stepwise regression (entry point of $p<0.299$ and exit point of $p<0.30$) to test for inclusion in GDD models. These stepwise regressions resulted in three nested versions of the GDD model per diet factor:

1. **Base model:** Closest diet factor proxy from FAO or GENuS (1-2 covariates per model)
2. **Restricted model:** All covariates with $p<0.1$ from the results of the stepwise regression plus base model covariate(s).
3. **Inclusive model:** All covariates from the results of the stepwise regression plus base model covariate(s).

For each dietary factor, five-fold cross-validation was used to compare model fit for the three versions of the GDD model. Data were split into five partitions at the survey level: four partitions making up the training dataset, and the remaining segment as the testing data. The models were fit to the training set, and resulting outputs were compared to training set to assess model fit via calculating the expected log predictive density (ELPD)[1]. This was repeated five times so that each partition was used once as the training set.

Final model selection and included covariates by dietary factor.

Dietary factor	Selected model	Covariates
Unprocessed red meat	Base model	FAO red meat
Processed meat	Restricted model	FAO processed meat; FAO potatoes; GENuS iron; FAO PCA 1; FAO PCA 2; GENuS carbohydrates; FAO alcoholic beverages
Seafood	Base model	FAO fish and seafood
Egg	Base model	FAO eggs
Milk	Base model	FAO milk
Cheese	Base model	FAO cheese
Yogurt	Base model	FAO cheese

References

1. Vehtari, A., Gelman, A. & Gabry, J. Practical Bayesian model evaluation using leave-one-out cross-validation and WAIC. *Stat Comput* **27,** 1413–1432 (2017). https://doi.org/10.1007/s11222-016-9696-4.

GDD Prediction Model

1. **Overview**

The GDD prediction model aims to estimate mean intake of 54 dietary factors in 185 countries, by country/year/age/sex/urbanicity/education, by synthesizing survey mean intake data from sourcesof varying quality. The Bayesian multilevel framework has some advantageous properties that areappealing for our purposes. Namely,

- "Shrinkage" of parameter estimates towards an overall mean. For example, mean estimatesfor data sparse countries are pulled towards the region mean, allowing for more reasonable estimates for countries with potentially unreliable data.

- Intuitive framework for predicting means (with uncertainty bounds) for countries with no available data.

- Ability to include prior knowledge about intake through priors

- Allows for model flexibility and complexity often not granted in similar frequentist approachesdue to difficulty in optimization.

2. **Hierarchical nature of the data**

Survey data collected across the globe have an inherently nested hierarchical structure which makesa multilevel approach to modeling the data appealing. The hierarchical structure of the data we assumed was as follows: countries were nested in super-regions, which are nested in the globe. Our model assumed that the super-region means were distributed log-normally around the global mean, and that country means were distributed log-normally around their respective super-region means. Using this structure allowed us to borrow strength across units, a concept commonly known as "partial pooling" in the Bayesian literature. In partial pooling, each country's mean estimate borrows from the other countries' data within the region, resulting in shrinkage of the country mean estimate towards the region mean. The less informative the data was for a particular country, the more pooling there is.

Our model used the following seven super-regions:

        a. Southeast and East Asia

        b. FSU (Central/Eastern Europe and Central Asia)

        c. HIC (High Income Countries)

        d. LAC (Latin America and Caribbean)

        e. MENA (Middle East and North Africa)

        f. SAARC (South Asia)

        g. SSA (Sub-Saharan Africa)

3. **Description of model**

Fundamentally, our model was a Bayesian model on the log-means of intake with a nested hierarchical structure (clusters countries within super-regions and super-regions within the globe), assuming exchangeability between countries and super-regions after accounting for covariates. To this structure, we added sex, urban/rural, education, and non-linear age effects (also within a nested hierarchical structure), survey and country-level covariates, and overdispersion on study-level variance to account for non-sampling variation. It borrowed

heavily from models presented by Finucane et al.[1] and Flaxman et al.[2]. For dietary factors that were measured as proportions of energy intake, we used $-log(-log(y))$ as the link function instead of $log(y)$.

Below we provide a full mathematical description of the model, with detailed descriptions for each component, but first, we present some notation:

a. Subscript notation:

    i. h: age/sex/educ/urbanicity group

    ii. i: study

    iii. j: country

    iv. k: super-region

b. Superscript notation:

    i. c: country

    ii. s: super-region

    iii. g: globe

The model

$$f(y_{h,i}) \sim N\left(a_j + b_{1j}\,sex_{h,i} + b_{2j}\,u_{h,i} + b_{3j}\,educ_{h,i} + \gamma_j(z_{h,i}) + X_i\beta,\ SE^2 + \tau^2\right)$$

where

$f(y) \Leftarrow -log(-log(y))$ for dietary factors measured as proportions, $log(y)$ otherwise

$y_{h,i} \Leftarrow$ mean intake level for stratum h in study i a_j

$\Leftarrow$ country-specific intercept

$b_{1j} \Leftarrow$ country-specific difference between females and males

$sex_{h,i} \Leftarrow$ variable indicating whether the $y_{h,i}$ corresponds to an all male group (0), all female group (1),or mixed (0.5)

$b_{2j} \Leftarrow$ region-specific difference between urban and rural

$u_{h,i} \Leftarrow$ variable indicating whether the $y_{h,i}$ corresponds to an all rural group (0), all urban group (1),or mixed (% urban)

$b_{3j} \Leftarrow$ region-specific education effect

$u_i \Leftarrow$ two variables indicating whether $y_{h,i}$ corresponds to low education (defined to be 6 years or less of schooling if mixed, proportion of low education and high education

$\gamma_j \Leftarrow$ non-linear age-trend for region j

$z_{h,i} \Leftarrow$ midpoint age of stratum h in study i

$X_i\beta \Leftarrow$ study + country level covariate effects

$SE^2_{h,i} \Leftarrow$ standard error of $f(y_{h,i})$ (estimated via delta method)

$\tau^2_i \Leftarrow$ overdispersion parameter for study i

Intercept, sex differences, education differences, and urban/rural differences

We fit a multi-level model with 3 levels (countries nested in super-regions nested in the globe)for intercepts and sex differences, and 2 levels (super-regions nested in the globe) for age pattern,education differences, and urban/rural differences. a_j refers to the intercept for country j, b_{1j} refers to the country specific sex effect, b_{2j} refers to the country specific urban effect, and b_{3j} refers to the country specific education effect. a^g and b^g correspond to global intercept and effects while a^s,b^s denote super-region specific random effects and a^c, b^c denote country specific random effects. κ^c and κ^s are the between-country and between-super-region variance, respectively, for their respective model components. Note that the model assumes between country variance is the same across allsuper-regions, and that education, urban/rural differences and age patterns are assumed to be the same for countries within a super-region.

Mathematically, this can be described as follows:

$$a_j = a^c_j + a^s_{k[j]} + a^g$$

$$b_{1j} = b^c_{1j} + b^s_{1k[j]} + b^g_1$$

$$b_{2j} = b^s_{2k[j]} + b^g_2$$

$$b_{3j} = b^s_{3k[j]}$$

$$a^c_j \sim N(0, \kappa^c_a), b^c_{1j} \sim N(0, \kappa^c_{1b}),$$
$$a^s_k \sim N(0, \kappa^s_a), b^s_{1k} \sim N(0, \kappa^s_{1b}), b^s_{2k} \sim N(0, \kappa^s_{2b}), b^s_{3k} \sim N(0, \kappa^s_{3b})$$

Weakly informative priors were used for the hyper-parameters: half-Normal(0, 0.5) for the κ parameters, For a^g, b^g, b^g, and b^g, a prior of N(0, 0.35) was used. Input data were standardized to the standard normal scale to ensure priors were sensible for all dietary factors and to increase computational stability.

Covariate effects

There were two survey-level covariate effects included in the model to explain potential bias from a survey: survey type and food definition. There were four main types of diet surveys included as covariates in the model: short-term recalls (single or multiple); food frequency questionnaires (FFQs); household budget/intake surveys; and DHS (Demographic Health Survey) questionnaires. Only the recall was considered the "gold standard" with regards to estimating the mean unbiasedly. Likewise, not all surveys used the optimal definition for a dietary factor. For example, in the case of fruits, most surveys defined fruits as all fruits. However, some surveys only measured a suboptimal metric, such as fruits including fruit juices. Currently, we combine all sub-optimal metrics into one category for our models. We also included country-year specific predictors in the model (e.g., food availability (FAO food balance sheets or Global Expanded Nutrient Supply (GENuS) model). We assumed their relationship to $f(y)$ was linear, and that the relationships were independent of location (not super-region dependent, or country dependent). See the covariate testing section for a list of the country-year specific predictors used for each dietary factor.

Mathematically, this portion of the model can be described as follows:

$$X_i\boldsymbol{\beta} = \beta_1 I\{X_i^{\text{diet}} = \text{FFQ}\} +$$
$$\beta_2 I\{X_i^{\text{diet}} = \text{household survey}\} +$$
$$\beta_3 I\{X_i^{\text{diet}} = \text{DHS}\} +$$
$$\beta_4 I\{X_i^{\text{metric}} = \text{alternative}\} +$$
$$X_{i[j]}^{\text{country-year predictors}} \boldsymbol{\beta_c}$$

For survey level-covariates, we used a prior of Normal(0, 0.35). The prior for β_c parameters depended on the dietary factor. For many dietary factors, we only used 1 or 2 country-level covariates, all from FAO or GENuS. For these variables, we had a very strong prior belief that the they should be strongly correlated with the outcome of interest (e.g., log(fruit availability from FAO) should be strongly positively correlated with log(fruit intake)). In these cases, we used a highly informative prior of N(1, 0.1). For other dietary factors, either no such variable exisited, or other country-year level predictors were also included and do not warrant such a high degree of certainty in a strong relationship. In these cases, we used a much weaker prior of N(0, 0.5).

Age trend

For many surveys, intake was not linearly associated with age. We modelled age using restricted cubic splines with 4 knots at k_1, k_2, k_3, k_4, corresponding to ages 5, 20, 50 and 65, respectively, after standardization:

$$\gamma_{j[i]}(z_h) = \gamma_{1j[i]}z_h + \gamma_{2j[i]}S_1 + \gamma_{3j[i]}S_2$$

where

$$S_1 = (z_h - k_1)_+^3 - \frac{k_4 - k_1}{k_4 - k_3}(z_h - k_3)_+^3 + \frac{k_3 - k_1}{k_4 - k_3}(z_h - k_4)_+^3$$
$$S_2 = (z_h - k_2)_+^3 - \frac{k_4 - k_2}{k_4 - k_3}(z_h - k_3)_+^3 + \frac{k_3 - k_2}{k_4 - k_3}(z_h - k_4)_+^3$$

As with the urban and education effect parameters, we used 2 levels of hierarchy for the age-trend:

$$\gamma 1j[i] \quad \overline{=}_{1k[j]} + \gamma_1^g$$
$$\gamma^s \gamma 2j[i] \overline{=}_{2k[j]} + \gamma_2^g$$
$$\gamma^s \quad \gamma 3j[i]_{3k[j]} + \gamma_3^g$$
$$= \gamma^s$$

$$\gamma_{1k}^s \sim N(0, \kappa_{1\gamma}^s), \gamma^s \sim N(0, \kappa^s), \gamma^s \sim N(0, \kappa^s)$$
$$ 2k 2\gamma 3k 3\gamma$$

Weakly informative distributions were used for hyper-prior parameters: Half-Normal(0, 0.5) for the κ parameters and Normal(0, 0.35) for the γ^g parameters.

Overdispersion

An additional variance component was added to each study to allow the model to account for non-sampling variation due to survey-level error (from imperfect study design and quality). This additional variance component was modeled in such a way to reflect our expectation that surveys that are less likely to represent the true mean (but not necessarily biased) were more variable. Sources of this non-sampling variation accounted for included surveys not being nationally representative, surveys not being stratified by sex, urban/rural or education, and surveys that used large age groupings(>10 years). We also added an additional constraint to ensure local surveys were considered more variable than regional surveys.

Thus,

$$\tau_i^2 = exp(\phi_{intercept} + \phi_{regional}I(X_i^{rep} \overline{=} regional) + \phi_{local}I(X_i^{rep} = local)$$
$$+ \phi_{agerange}I(X_i^{AgeRange} > 10)$$
$$+ \phi_{sex}I(X_i^{sex} = both) + \phi_{urban/rural}I((X_i^{urban/rural} = both) \text{ or } (X_i^{educ} = all))$$

with the constraints $\phi_{regional}^2 < \phi_{local}^2$, and all $\phi > 0$ except $\phi_{intercept}$. We used a prior of Normal(-2.5,

1) for $\phi_{intercept}$ to reflect our a priori belief than an "ideal" survey that is both fully stratified and nationally representative should have minimal overdispersion. For all other ϕ parameters, we used a prior of Normal(0, 0.5).

Computation

We fit each model using STAN[3,4] through rstan[5], using the No-U-turn sampler (NUTS)[6], a variant of Hamiltonian Monte Carlo[7]. We used 4 chains of 2000 iterations each, treating the first 1000 iterations of each chain as warm up, for a total of 4000 Monte Carlo iterations to define our posterior distributions.

Predictions

The model described above was ultimately used to provide predictive distributions of mean intake for each dietary factor by country-year and subgroup. Note that the model specified $g(y_{h,i[j]})$ of

subgroup h in survey i from country j as a linear combination of model parameters and survey-year-subgroup specific information:

$$a_j + b_{1j}\,sex_{h,i} + b_{2s}\,u_{h,i} + b_{3s}\,educ_{h,i} + \gamma_s(z_{h,i}) + X_i\beta$$

where we had posterior distributions for model parameters a_j, b_j, b_{2s}, b_{3s}, γ_s and β. To obtain a predictive distribution for subgroup h in country j, we calculated:

$$\mu_{h,j} = g^{-1}(a_j + b_{1j}sex_{h,j} + b_{2s}u_{h,j} + b_{3s}educ_{h,j} + \gamma_s(z_{h,j}) + X_j^{\text{country-year}}_{\text{predictors}}\beta_c)$$

for each draw of our posterior distributions. Because we are interested in country-specific means, we did not use survey specific parameters in our predictions. For countries with no survey data, we did not have a posterior distribution of a_j. To get the predictive distributions for these countries in such a way that properly accounts for the variation of mean intake between countries within a region, we replaced a_j and b_{1j} with a^*_j and b^*_{1j} where $a^*_j \sim N(a_{k[j]},$ $\kappa^c_a)$ and $b^*_{1j} \sim N(b_{1k[j]}, \kappa^c_{1b})$. Here, $a_{k[j]}$ and $b_{1k[j]}$ are super-region-level intercepts and sex effects corresponding to country j, and κ^c and κ $b_{1k[j]}$ are super-region-level intercepts and sex effects corresponding to country j, and κ^c_a and κ^c_{1b} are the between-country variances for intercept and sex effects, respectively. In other words, eachposterior draw for the super-region-level parameter and it's corresponding between-country variance parameter generated a unique normal distribution for that draw, and we took a one sample draw from each of these distributions to generate the predictive distribution of that parameter for an unknown country in that region. Note that the uncertainty around the super-region level parameterand between country variance propagate into the predictive distribution for the mean.

For some dietary factors, there were entire super-regions with no data. For those super-regions, predictive distributions for b_{2s}, b_{3s}, and γ_s were obtained in a similar way, generating a normal distribution for each draw from the global level parameter and between region variance parameterand sampling from that. For a_j and b_{1j}, we needed to account for between-super-region variance and the between country variance. Therefore, taking the intercept as an example, for each posterior draw, we sampled from $N(a^g, \kappa^c_a + \kappa^s_a)$. Note that this is equivalent to drawing a sample region mean from $N(a^g, k^s_a)$ then using that sample as mean and k^c_a as variance to form a normal distribution to sample country mean from.

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Varying slopes modeling structure

- Our extensive work to identify surveys and model intakes led to recognition and the finding that, for certain dietary factors, the available global data and model were insufficient to accurately model differences in intakes by jointly stratified by country, age, sex, education level, and urban/rural status while also modeling differences in intakes over time.

- For countries without multiple comparable dietary surveys over time (the great majority of global nations), trends over time are largely determined by the strength of the relationship between the best available covariates (often variables from FAO food balance sheets or associated GENuS variables) and the raw survey data. For certain dietary factors, this relationship was sufficiently robust to allow modeling of all joint demographic strata and time trends. By reviewing extensive time trends plots for individual dietary factors and nations, dietary factors with a model beta coefficient ≥0·4 with their corresponding FAO/GENuS covariate were identified as having a reasonable statistical relationship to capture both all demographic strata differences and time trends. For others (FAO/GENuS beta coefficient<0·4), time trends were modeled using a second, separate Bayesian model.

- This second Bayesian model assessed the country-specific associations over time of the survey data for each dietary factor with its corresponding FAO/GENuS covariate. The model incorporated country-level intercepts and slopes, along with their correlation that is estimated across countries. Input data were the same stratified survey data as for the GDD Core model and including dietary assessment method as a covariate. This time component model did not separately estimate differences by age, sex, education, or urban/rural status, but focused on the relationships with FAO/GENuS over time. In sensitivity analyses, age and sex were included as main effects (not varying by country or region) but were found to not qualitatively alter the parameter estimates for the relationship of a country's dietary intake data with its FAO/GENuS data. Thus, including these demographics did not largely affect the time-varying predictions. This model is commonly referred as a varying slopes model structure and leverages two-dimensional partial pooling between intercepts and slopes to regularize all parameters and minimize overfitting risk[1-3]. Predictions with the varying slopes model take into account a country-specific intercept and slope when the country has dietary factor data and use the global intercept and slope for countries where data are not available. Time effects were predicted separately for each year including 1990, 1995, 2000, 2005, 2010, 2015, and 2018.

- For each country and dietary factor, the country-specific time-trend central predictions from the varying slopes models were used to generate a country-year specific adjustment scaling factor, one for each year of 1990, 1995, 2000, 2005, 2010, 2015, and 2018, compared to the reference of one of these years as determined by the median year of that country's survey data (or 2005 if no country data). This scaling factor, determined by taking the ratio of the predicted dietary intake for that year as compared to the reference year, was multiplied by the country-year posterior predictions from the fully stratified, Core GDD model to determine a time-adjusted final estimate for each stratum.

- To be conservative, this varying slopes adjustment (scaling factor) was only used for dietary factors and countries meeting all of the following criteria: at the model level, (a) FAO/GENuS beta coefficient<0.4 in the Core GDD model; and (b) availability of a closely corresponding FAO/GENuS covariate (e.g., dietary survey vitamin A intake vs. GENuS vitamin A); and at the country-level, (c) identification of a positive relationship (coefficient or slope) between the national survey data and FAO/GENuS covariate in the varying slopes model; and (d) to minimize implausible results at the country level, no more than a 3-fold difference between the ratio of the country's range of predicted intake between 1990-2018 divided by the ratio of the country's range of FAO/GENuS values over that same time period.

- Among 53 evaluated dietary factors in the GDD, 29 were modeled and incorporated time adjustment using this Bayesian varying slopes model. The other dietary factors were not because (in order of criteria applied) 11 did not have any closely corresponding FAO/GENuS variable (e.g., dietary iodine), 8 had an FAO/GENuS beta coefficient in Core GDD Core Model of at least 0·4, and 4 were unable to complete sampling for the varying-slopes model (i.e., the MCMC chains did not finalize, independent of parameterization). One additional dietary factor, vitamin B9, with a borderline FAO/GENuS beta (0·34) was also not further scaled based on adequate qualitative characteristics of the observed time trends in the GDD Core Model.

A measurement error, varying slopes model that accounts for dietary assessment method, using standardized log-intakes for all dietary factors except those reported in percent energy:

$$Y_{obs,i} \sim Normal(Y_{true,i}, DE_{SE,i})$$
[distribution for observed intake, Y_{obs}, including measurement error associated with the stratum estimate, $DE_{SE,i}$]

$$Y_{true,i} \sim Normal(\mu_i, \sigma)$$
[distribution for true strata intake Y]

$$\mu_i = \alpha_{country[i]} + \beta_{country[i]} * FAO + M_{method[i]}$$
[linear equation for the average intake; Each country receives its own intercept and slope while also accounting for dietary assessment method]

$$\begin{bmatrix} \alpha_{country} \\ \beta_{country} \end{bmatrix} \sim MVNormal\left(\begin{bmatrix} \alpha \\ \beta \end{bmatrix}, S\right)$$
[population of varying effects]

$$S = \begin{pmatrix} \sigma_\alpha & 0 \\ 0 & \sigma_\beta \end{pmatrix} R \begin{pmatrix} \sigma_\alpha & 0 \\ 0 & \sigma_\beta \end{pmatrix}$$
[construct covariance matrix]

With hyperpriors that define the adaptive varying effects and effects for dietary assessment:

$$\alpha \sim Normal(0, 1)$$ [prior for average intercept]
$$\beta \sim Normal(1, 0.1)$$ [prior for average slope]
$$M[method] \sim Normal(0, 0.2)$$ [prior for method effect]
$$\sigma \sim Halfnormal(0, 0.5)$$ [prior for stddev within countries]
$$\sigma_\alpha \sim Halfnormal(0, 0.5)$$ [prior for stddev among intercepts]
$$\sigma_\beta \sim Halfnormal(0, 0.5)$$ [prior for stddev among slopes]
$$R \sim LKJcorr(2)$$ [prior for correlation matrix]

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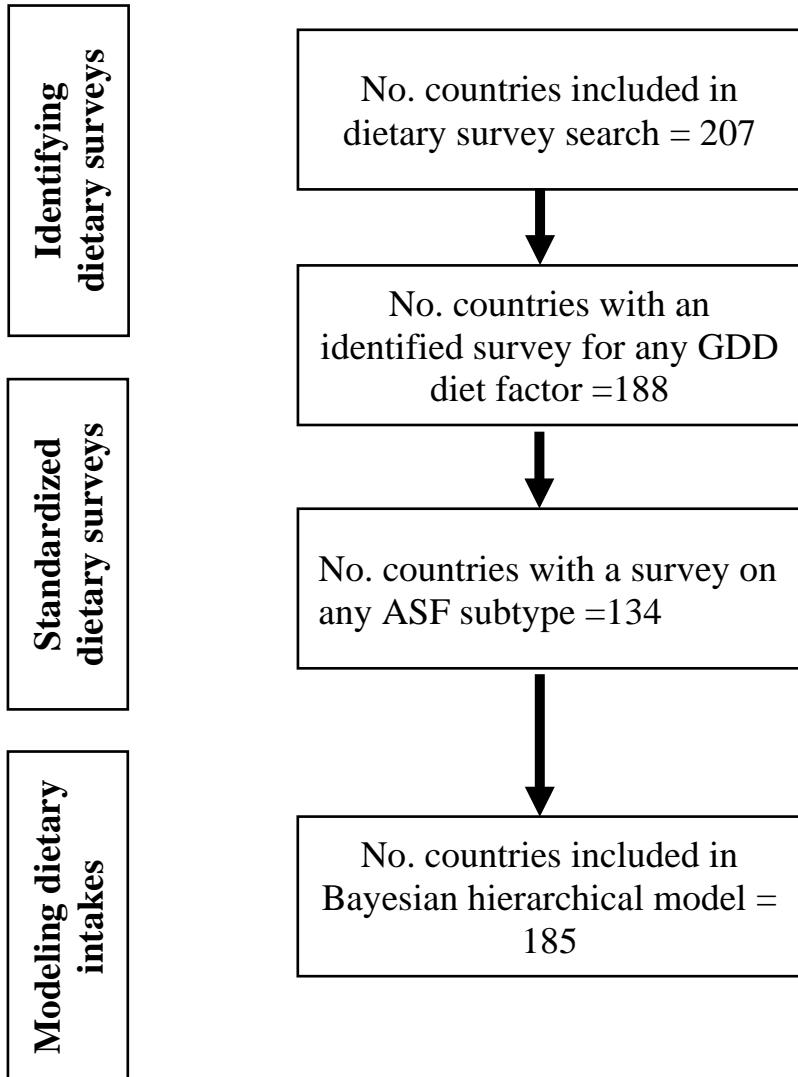
Figure S1. Flowchart of the number of countries with identified and standardized dietary surveys and included in the Bayesian hierarchical model.

Any GDD diet factor: fruit; non-starchy vegetables; potatoes; other starchy vegetables; beans/legumes; nuts/seeds; refined grains; whole grains; processed meats; unprocessed red meats; seafood; eggs; cheese; yogurt; sugar-sweetened beverages; fruit juices; coffee; tea; reduced fat milk; whole fat milk; total milk; energy; carbohydrate, total protein; animal protein; plant protein; saturated fat; monounsaturated fat; omega-6 fat; seafood omega-3 fat; plant omega-3 fat; dietary cholesterol; dietary fiber; added sugar; calcium; sodium; iodine; iron; magnesium; potassium; selenium; vitamin A with supplement; vitamin A without supplement; vitamin B1; vitamin B2; vitamin B3; vitamin B6; vitamin B9; vitamin C; vitamin D; vitamin E or zinc.

Any ASF subtype: unprocessed red meat; processed meat; seafood; egg; cheese; yogurt; total milk.

Table S3. Characteristics of global data sources of animal source food intake in children and adults.

Region (Total no. of surveys)	Number of surveys (% nationally or sub-nationally representative)	Total sample size of surveyed subjects	No. of surveys, by dietary assessment method			
			24hr recall	FFQ	DHS	Household budget survey
Milk (N=446)						
Southeast and East Asia	60 (92·3)	648,419	32	19	14	0
Central/Eastern Europe and Central Asia	67 (98·5)	281,878	20	10	10	28
High Income Countries	92 (95·8)	193,691	52	7	0	37
Latin America/Caribbean	52 (96·3)	543,624	7	8	39	0
Middle East/North Africa	20 (90·9)	190,580	4	7	11	0
South Asia	23 (79·3)	647,491	9	6	14	0
Sub-Saharan Africa	108 (96·4)	1,046,581	12	2	98	0
Overall	**422 (94·6)**	**3,554,611**	**136**	**59**	**186**	**65**
Yogurt (N=191)						
Southeast and East Asia	25 (92·6)	388,355	5	14	8	0
Central/Eastern Europe and Central Asia	13 (100·0)	61,317	7	0	6	0
High Income Countries	24 (8·9)	175,369	21	6	0	0
Latin America/Caribbean	20 (83·3)	364,577	8	5	11	0
Middle East/North Africa	12 (70·6)	155,358	5	6	6	0
South Asia	10 (83·3)	357,578	3	1	8	0
Sub-Saharan Africa	70 (98·6)	870,272	3	0	68	0
Overall	**174 (91·1)**	**2,372,826**	**52**	**32**	**107**	**0**
Cheese (N=144)						
Southeast and East Asia	8 (80·0)	240,567	3	5	2	0
Central/Eastern Europe and Central Asia	11 (91·7)	60,497	7	1	4	0
High Income Countries	24 (85·7)	175,493	21	7	0	0
Latin America/ Caribbean	20 (80·0)	297,612	8	3	14	0
Middle East/ North Africa	11 (64·7)	118,768	4	9	4	0
South Asia	6 (85·7)	71,524	2	1	4	0
Sub-Saharan Africa	44 (97·8)	594,219	4	1	40	0

Region (Total no. of surveys)	Number of surveys (% nationally or sub-nationally representative)	Total sample size of surveyed subjects	No. of surveys, by dietary assessment method			
			24hr recall	FFQ	DHS	Household budget survey
Overall	124 (86·1)	1,558,680	49	27	68	0
Egg (N=217)						
Southeast and East Asia	45 (90·0)	646,051	27	17	6	0
Central/Eastern Europe and Central Asia	12 (92·3)	70,804	7	1	5	0
High Income Countries	24 (85·7)	175,493	21	7	0	0
Latin America/Caribbean	24 (82·8)	435,701	8	5	16	0
Middle East/North Africa	13 (68·4)	163,867	5	8	6	0
South Asia	12 (66·7)	618,468	4	6	8	0
Sub-Saharan Africa	56 (93·3)	742,358	8	0	52	0
Overall	186 (85·7)	2,852,742	80	44	93	0
Unprocessed red meat (N=411)						
Southeast and East Asia	57 (89·1)	709,036	34	23	7	0
Central/Eastern Europe and Central Asia	64 (98·5)	279,723	17	10	8	30
High Income Countries	98 (94·2)	248,332	54	13	0	37
Latin America/Caribbean	40 (87·0)	491,937	12	11	23	0
Middle East/North Africa	22 (75·9)	205,057	7	13	9	0
South Asia	18 (66·7)	390,182	10	8	9	0
Sub-Saharan Africa	70 (92·1)	769,897	13	3	60	0
Overall	369 (89·8)	3,094,164	147	81	116	67
Processed meat (N=224)						
Southeast and East Asia	26 (86·7)	335,908	10	20	0	0
Central/Eastern Europe and Central Asia	47 (100·0)	206,263	16	1	0	30
High Income Countries	94 (94·9)	244,319	53	9	0	37
Latin America/Caribbean	16 (72·7)	137,178	12	9	1	0
Middle East/North Africa	11 (68·8)	44,395	8	8	0	0
South Asia	2 (50·0)	25,629	2	2	0	0
Sub-Saharan Africa	5 (83·3)	5,916	4	2	0	0
Overall	201 (89·7)	999,608	103	53	1	67

Region (Total no. of surveys)	Number of surveys (% nationally or sub-nationally representative)	Total sample size of surveyed subjects	No. of surveys, by dietary assessment method			
			24hr recall	FFQ	DHS	Household budget survey
Seafood (N=341)						
Southeast and East Asia	53 (88·3)	684,216	32	22	6	0
Central/Eastern Europe and Central Asia	52 (98·1)	258,984	16	1	6	30
High Income Countries	84 (94·4)	233,332	41	11	0	37
Latin America/Caribbean	28 (84·8)	305,259	9	14	10	0
Middle East/North Africa	18 (75·0)	156,174	6	12	6	0
South Asia	13 (68·4)	377,102	6	6	7	0
Sub-Saharan Africa	59 (93·7)	708,490	10	4	49	0
Overall	**307 (90·0)**	**2,723,557**	**120**	**70**	**84**	**67**

Of the 499 surveys reporting data on unprocessed red meat, processed meat, egg, seafood, cheese, yogurt, or milk, 23·2% of surveys were in Sub-Saharan Africa, followed by High-Income Countries (21·6%), Asia (14·2%), Latin American and the Caribbean (13·6%), Central/Eastern Europe and Central Asia (14·2%), Middle East and Northern Africa (6·6%), and South Asia (6·4%).

Table S4. Number of dietary surveys for each animal source food subtype overall and by year.

Dietary factor	Total no. surveys	No. surveys by year							
		1980-1984	**1985-1989**	**1990-1994**	**1995-1999**	**2000-2004**	**2005-2009**	**2010-2014**	**≥2015**
Any ASF	499	3	23	44	87	116	107	104	15
Milk	446	3	23	41	83	106	87	88	15
Unprocessed red meat	411	3	13	35	71	80	93	101	15
Seafood	341	2	12	27	49	56	83	97	15
Processed meat	224	3	12	30	41	56	46	28	8
Egg	217	1	0	5	10	16	74	96	15
Yogurt	191	0	1	5	7	27	59	79	13
Cheese	144	0	0	5	4	13	40	70	12

Any ASF subtype: unprocessed red meat; processed meat; seafood; egg; cheese; yogurt; or total milk.

Table S5. National spearman correlation coefficients.

	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Unprocessed red meat	N/A	0·52	-0·031	0·60	0·52	0·65	0·56
Processed meat	0·52	N/A	0·081	0·52	0·46	0·59	0·48
Seafood	-0·031	0·081	N/A	0·12	-0·15	-0·11	-0·088
Egg	0·60	0·52	0·12	N/A	0·45	0·56	0·51
Milk	0·52	0·46	-0·15	0·45	N/A	0·76	0·73
Cheese	0·65	0·59	-0·11	0·56	0·76	N/A	0·82
Yogurt	0·56	0·48	-0·088	0·51	0·73	0·82	N/A

Changes in Dairy Consumption Between 1990 and 2018

Milk consumption doubled globally (+98·6%), increasing by +0·63 servings/week (0·57, 0·69), with increases in all regions (range +0·27 to +1·95 servings/week) except Sub-Saharan Africa and the Middle East/North Africa, largest in Latin America/Caribbean (+103·5%). Across populous countries, greatest increases were in Brazil (+3·54 servings/week (3·12, 4·02); +211·7%), Mexico (+3·30 servings/week (3·04, 3·57); +127·4%), Russia (+1·89 servings/week (1·47, 2·45); +59·0%), and Turkey (+1·86 servings/week (1·21, 2·83); +58·3%). Greatest decreases were in the Philippines (-1·87 servings/week (-2·08, -1·68); -40.6%), Iran (-1.33 servings/week (-1·51, -1·19); -54·8%), France (-0·37 servings/week (-0·66, -0·20); -6.4%), and Japan (-0·29 servings/week (-0·31, -0·27); -11·6%).

Cheese intake increased globally by +56·0%, by +0·14 servings/week ((0·10, 0·19)), driven by increased consumption in the Central/Eastern Europe and Central Asia (+0·68 servings/week (0·24, 1·22); +104.4%), High-Income Countries (+0·49 servings/week (0·31, 0·67); +34·1%), Latin America/Caribbean (+0·34 servings/week (0·27, 0·44); +53·1%), and the Middle East/North Africa (+0·18 servings/week (0·05, 0·35); +70·8%). Among populous nations, largest national increases were in Mexico (+0·58 servings/week (0·50, 0·66); +33·9%), the United States (+0·45 servings/week (0·35, 0·56); +9·8%), Iran (+0·32 servings /week (0·20, 0·44); +19·6%), and Egypt (+0·20 servings/week (0·14-0·28); +24·3%); and a significant decrease, only in Turkey (-0·44 servings/week (-0·63, -0·31); -7·7%).

Global yogurt consumption was stable between 1990 and 2018 (0·02 servings/week (0, 0·04); 38·1%). Intakes did not significant increase in any region. Among populous nations, intakes increased only in Japan (+0·16 servings/week (0·07, 0·28); +10·3%), Germany (+0·05 servings/week (0·02, 0·07); +3·7%), Mexico (+0·03 servings/week (0·01, 0·05); +7·0%), and France (+0·03 servings/week (0.01, 0.04); +1.3%). A significant decrease in intake occurred in Iran (-0·19 servings/week (-0·30, -0·08); -8·6%), Turkey (-0·04 servings/week (-0·08, -0·01); -1·3%),
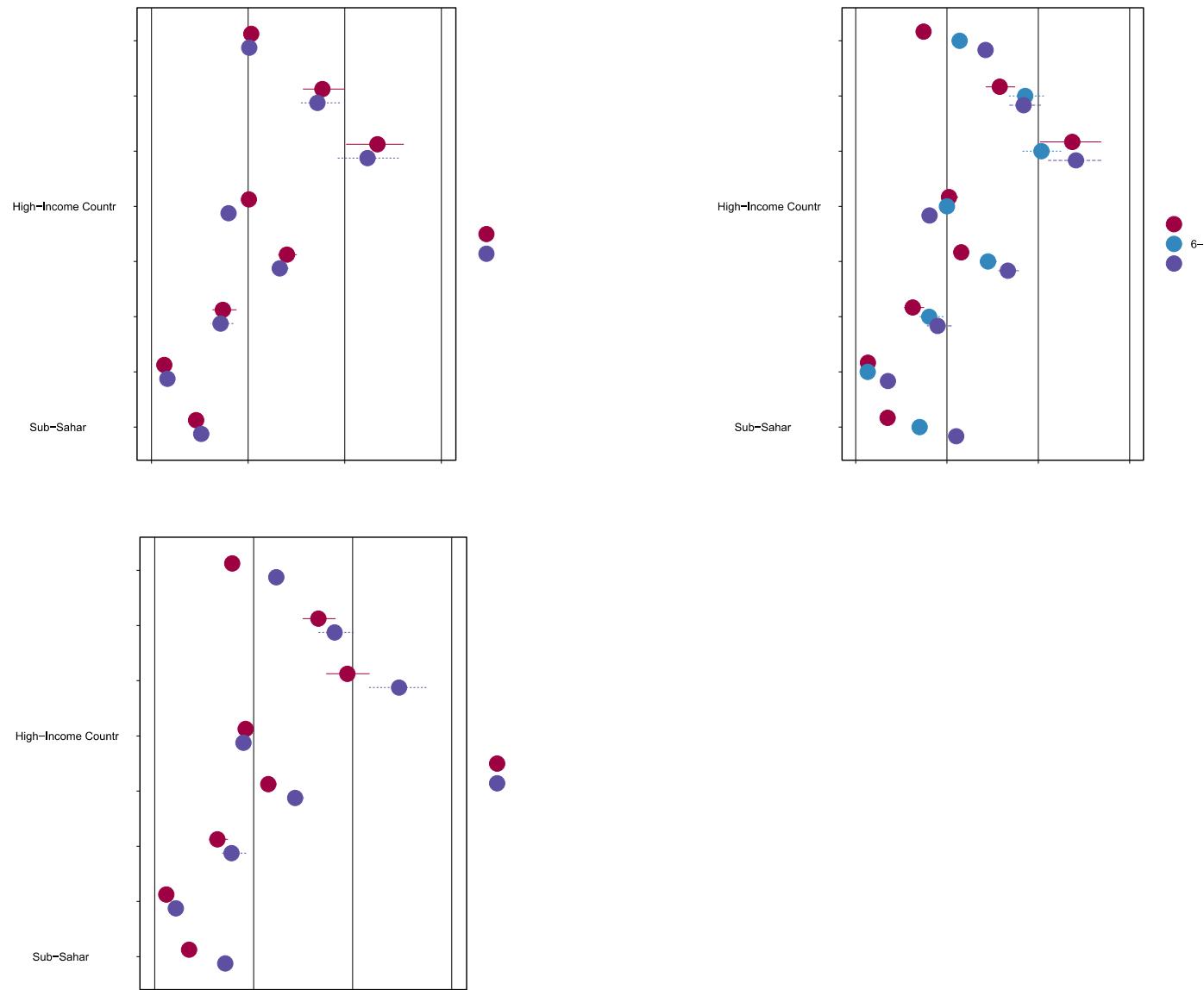
Figure S2. Global and regional unprocessed red meat intake by (A) sex, (B) education, and (C) urban/rural residence in 2018. Data are the mean intake (95% uncertainty interval) in grams per day. <6 years: <6 years of education; 6-12 years: >6 and <12 years of education; >12 years: ≥12 years of education. Rural: rural residence; urban: urban residence. Unprocessed red meat serving size = 100 g/day.
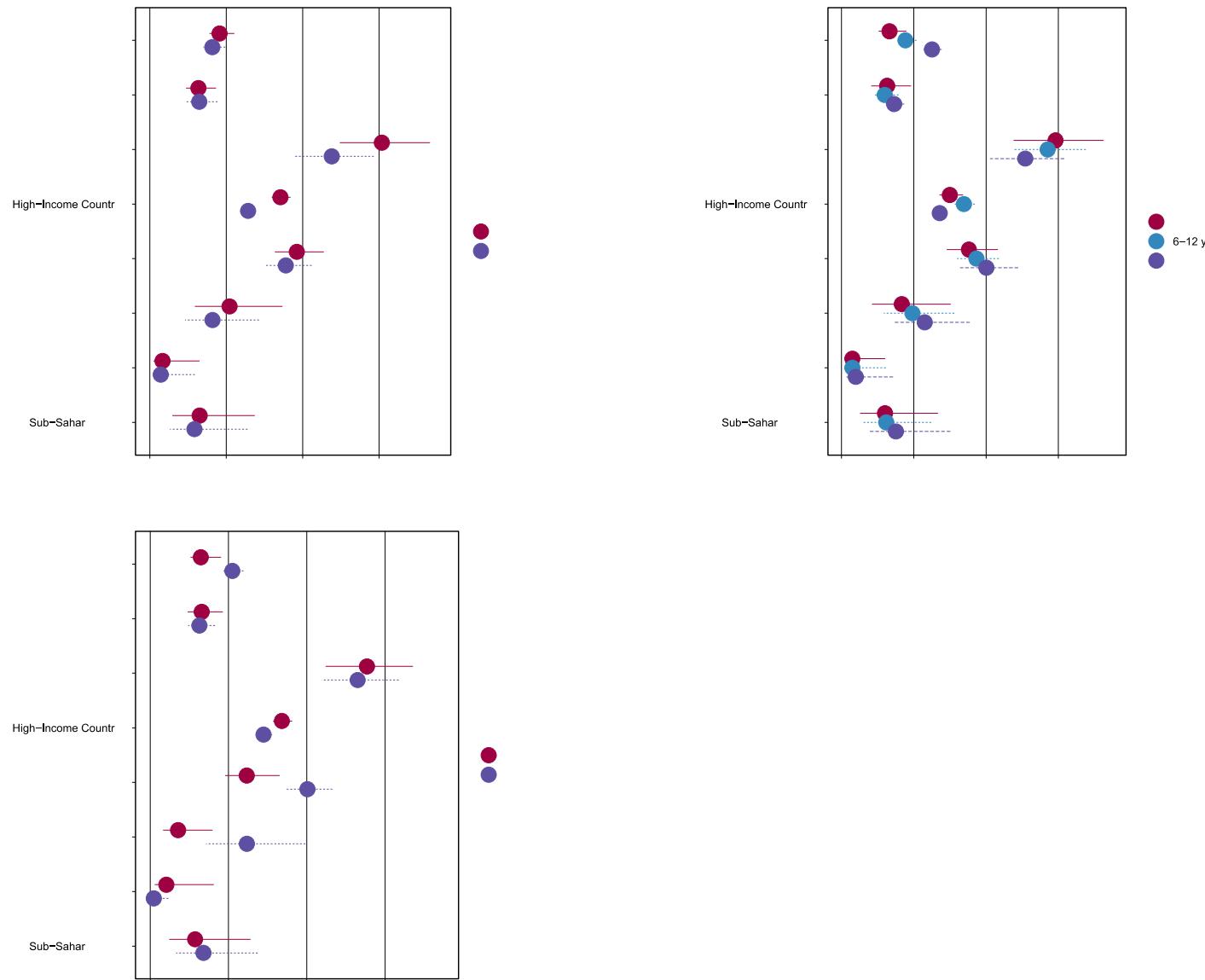
Figure S3. Global and regional processed meat intake by (A) sex, (B) education, and (C) urban/rural residence in 2018. Data are the mean intake (95% uncertainty interval) in grams per day. <6 years: <6 years of education; 6-12 years: >6 and <12 years of education; >12 years: ≥12 years of education. Rural: rural residence; urban: urban residence. Processed meat serving size = 50 g/day.
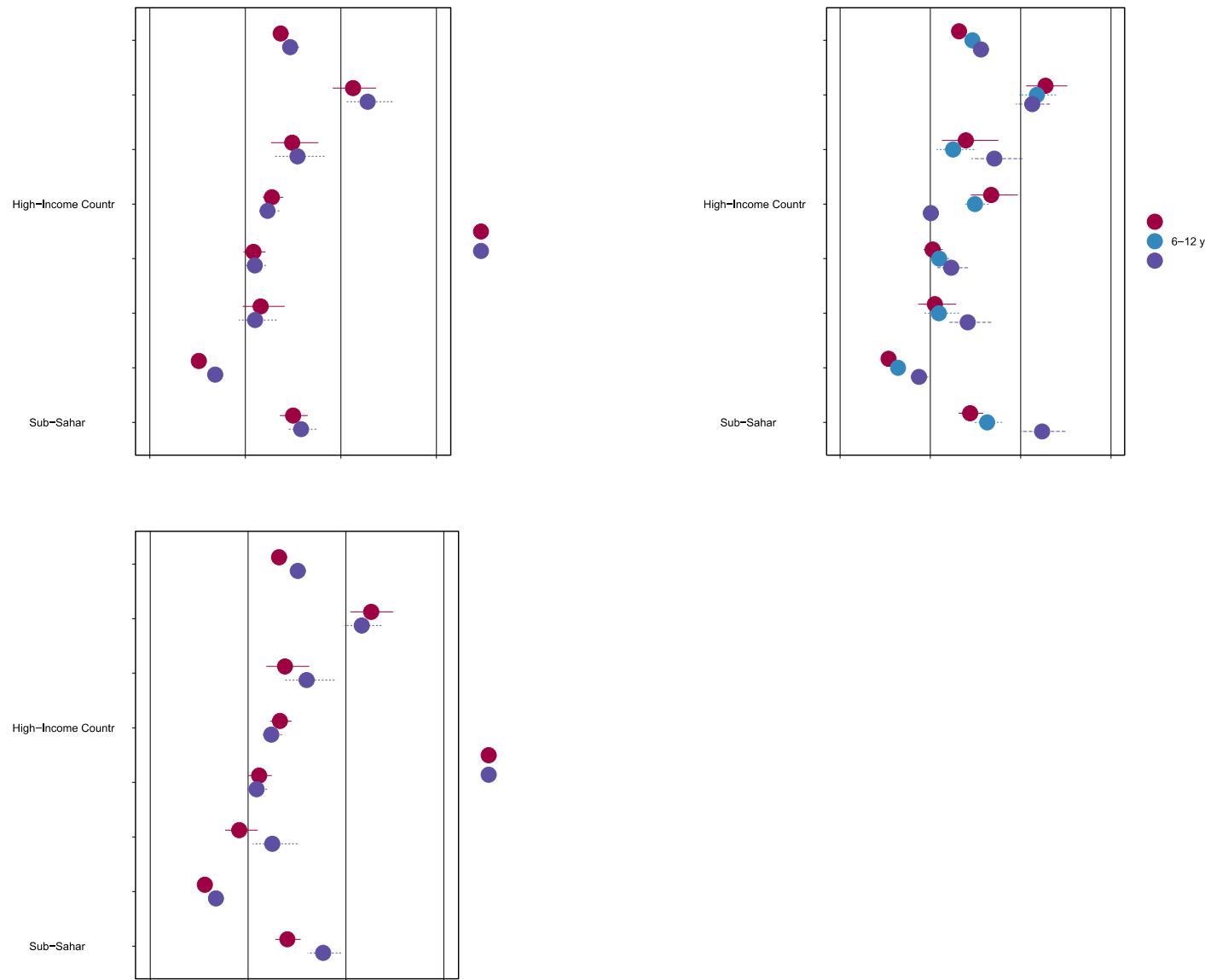
Figure S4. Global and regional seafood intake by (A) sex, (B) education, and (C) urban/rural residence in 2018. Data are the mean intake (95% uncertainty interval) in grams per day. <6 years: <6 years of education; 6-12 years: >6 and <12 years of education; >12 years: ≥12 years of education. Rural: rural residence; urban: urban residence. Seafood serving size = 100 g/day.
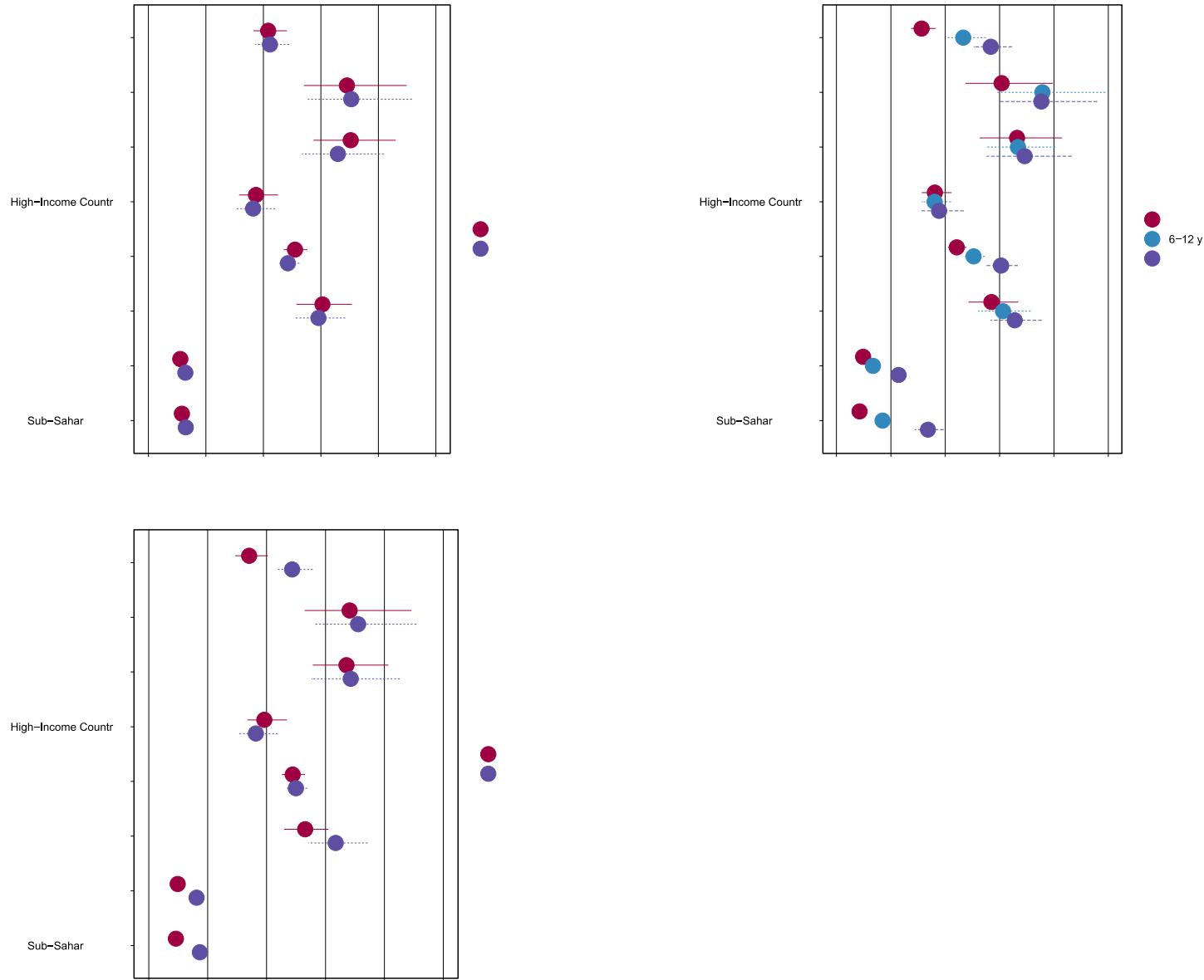
Figure S5. Global and regional egg intake by (A) sex, (B) education, and (C) urban/rural residence in 2018. Data are the mean intake (95% uncertainty interval) in grams per day. <6 years: <6 years of education; 6-12 years: >6 and <12 years of education; >12 years: ≥12 years of education. Rural: rural residence; urban: urban residence. Egg serving size = 55 g/day.

33
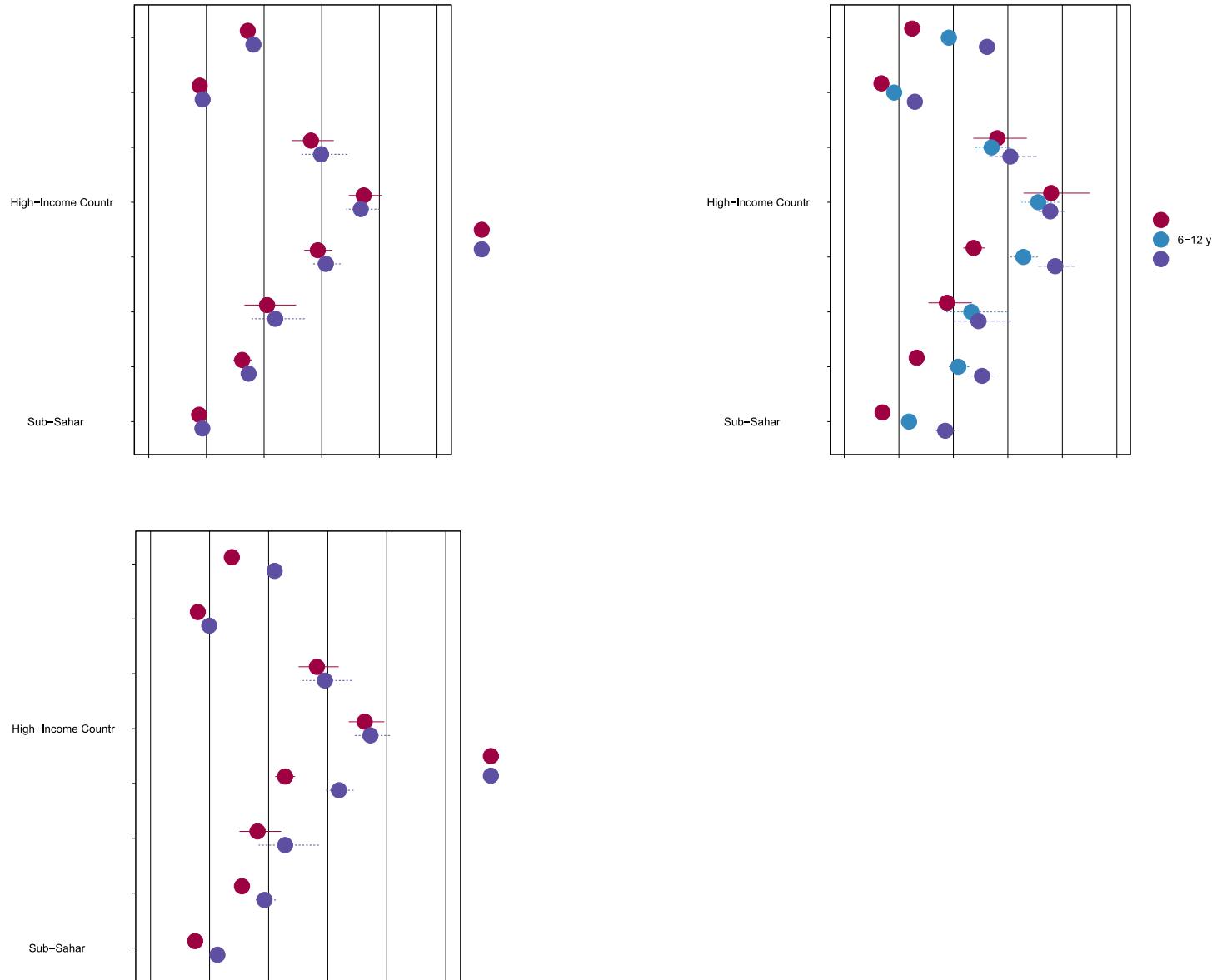
Figure S6. Global and regional milk intake by (A) sex, (B) education, and (C) urban/rural residence in 2018. Data are the mean intake (95% uncertainty interval) in grams per day. <6 years: <6 years of education; 6-12 years: >6 and <12 years of education; >12 years: ≥12 years of education. Rural: rural residence; urban: urban residence. Milk serving size = 245 g/day.
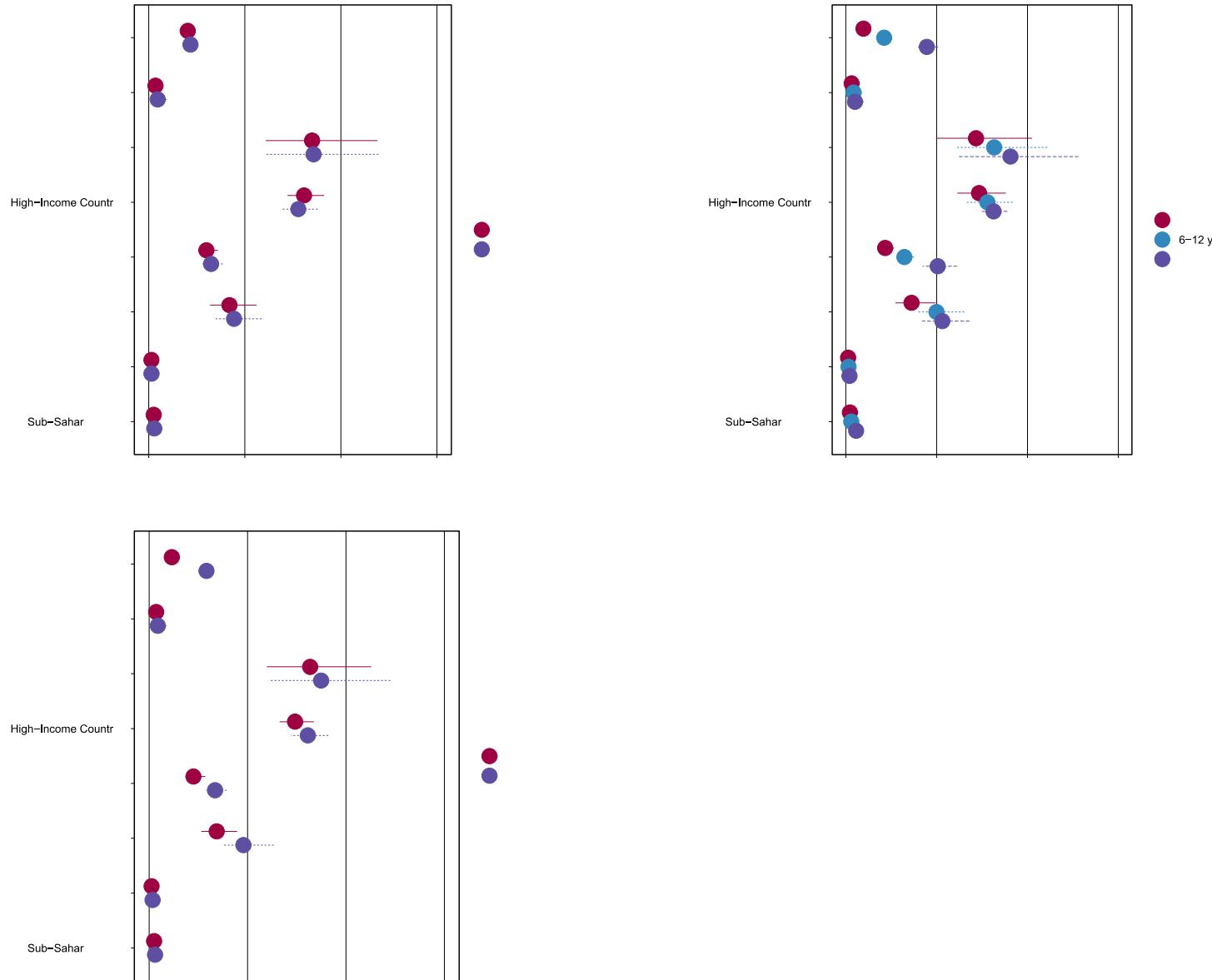
Figure S7. Global and regional cheese intake by (A) sex, (B) education, and (C) urban/rural residence in 2018. Data are the mean intake (95% uncertainty interval) in grams per day. <6 years: <6 years of education; 6-12 years: >6 and <12 years of education; >12 years: ≥12 years of education. Rural: rural residence; urban: urban residence. Cheese serving size = 42 g/day.
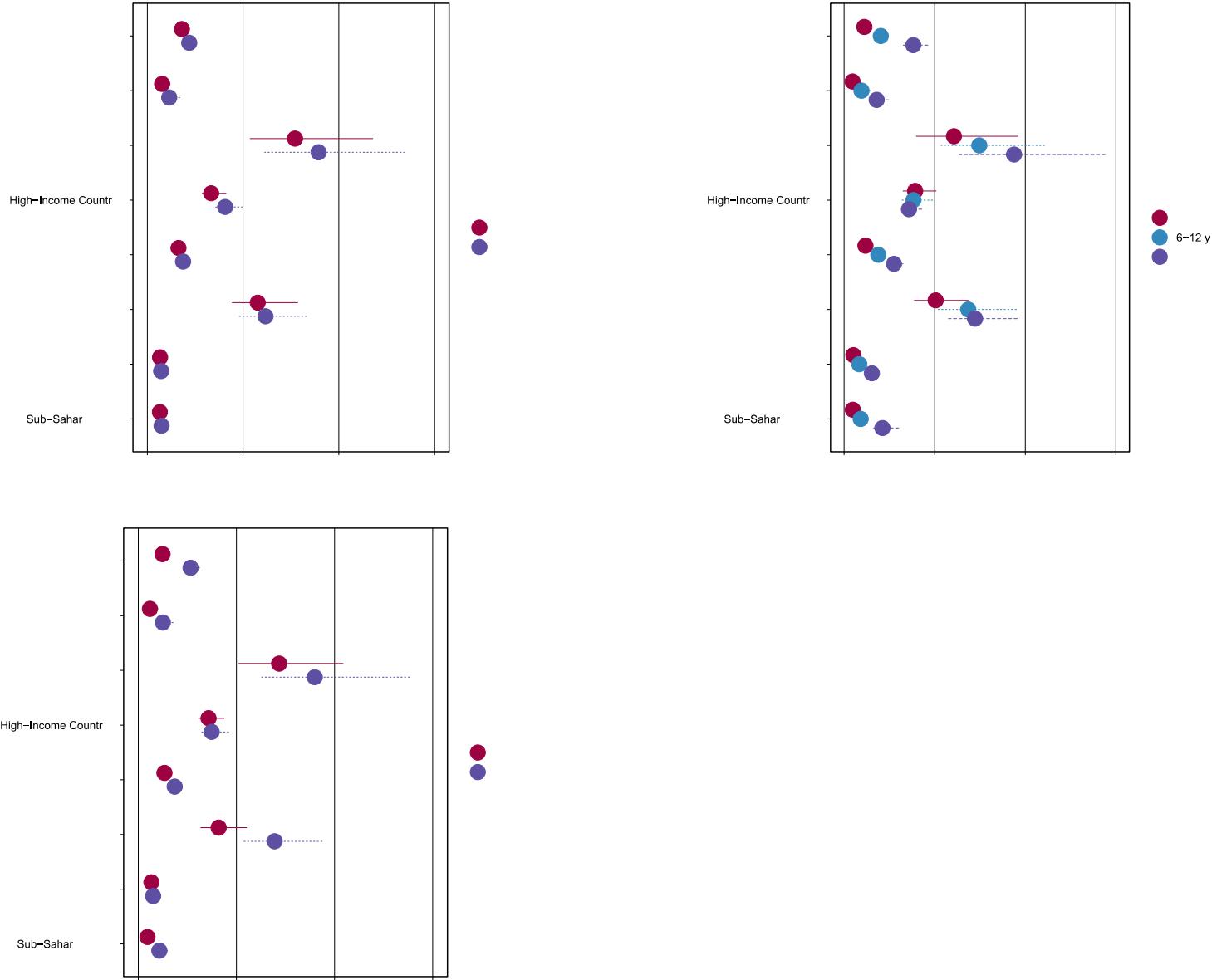
Figure S8. Global and regional yogurt intake by (A) sex, (B) education, and (C) urban/rural residence in 2018. Data are the mean intake (95% uncertainty interval) in grams per day. <6 years: <6 years of education; 6-12 years: >6 and <12 years of education; >12 years: ≥12 years of education. Rural: rural residence; urban: urban residence. Yogurt serving size = 245 g/day.
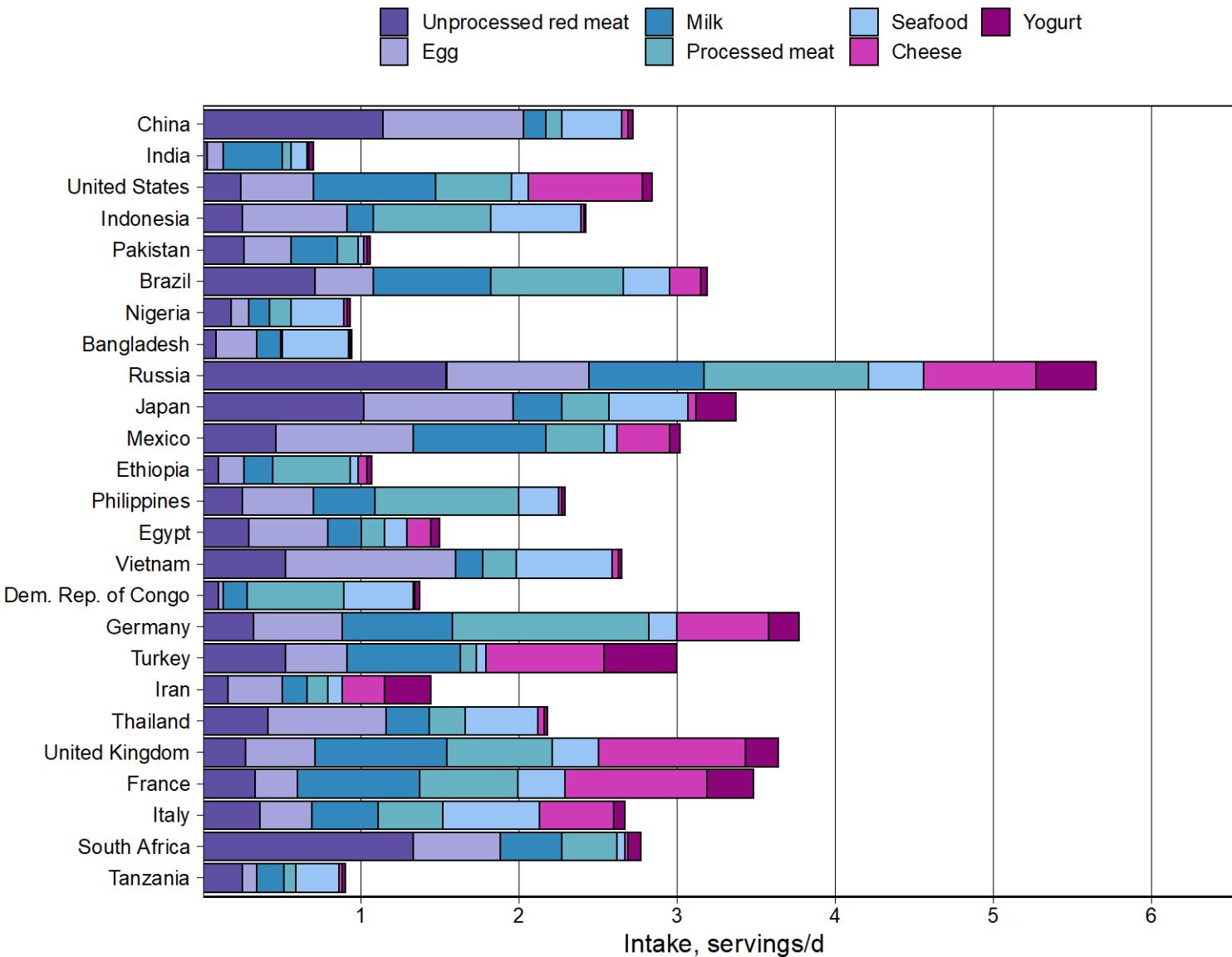
Figure S9. Mean national consumption of animal source foods in the 25 most populous countries in 2018 (servings/day). Countries are shown in order of total population (higher to lower). Foods are shown in order of mean global consumption (higher to lower). 1 serving/day of unprocessed red meat = 100 g/day; total processed meat = 50 g/day; seafood = 100 g/day; egg = 55 g/day; cheese = 42 g/day; yogurt = 245 g/day; milk = 245 g/day.
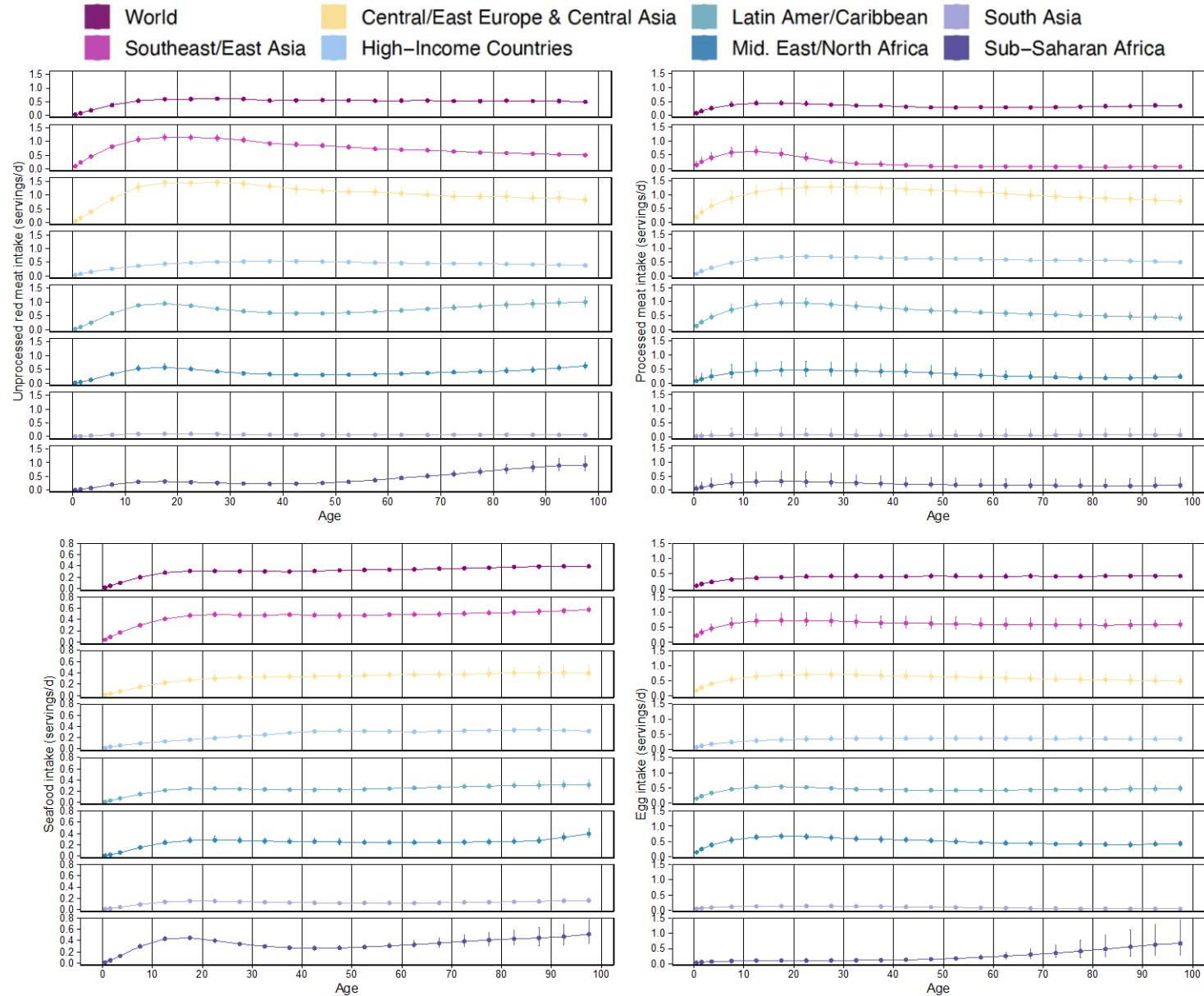
Figure S10. Global and regional consumption of unprocessed red meat, processed meat, seafood, and eggs (servings/day) by age in 2018. Unprocessed red meat serving size = 100 g/day; processed meat = 50 g/day; seafood = 100 g/day; egg = 55 g/day.
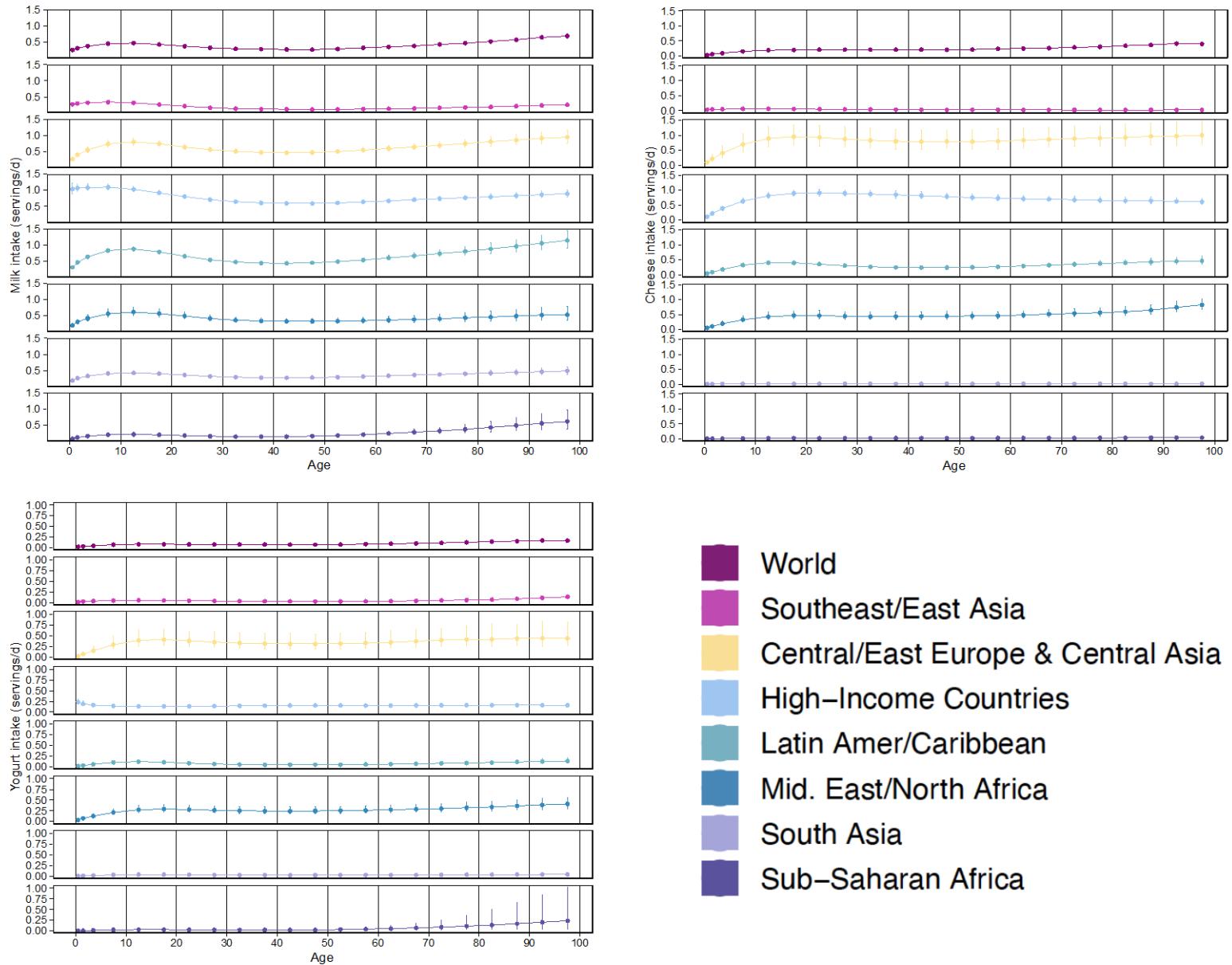
Figure S11. Global and regional consumption of milk, cheese, and yogurt (servings/day) by age in 2018. Milk serving size = 245 g/day; cheese = 42 g/day; yogurt = 245 g/day.

Table S6. Global and regional unprocessed red meat intake (g/day) by age, sex, education, and urban/rural residence in 185 countries in 2018.

	World	Southeast and East Asia	Central/Eastern Europe and Central Asia	High-Income Countries	Latin America and the Caribbean	Middle East and Northern Africa	South Asia	Sub-Saharan Africa
Overall	51 (48-54)	87 (79-96)	114 (101-126)	45 (43-47)	68 (64-72)	36 (31-43)	7 (7-8)	24 (23-26)
Sex								
F	51 (47-54)	86 (76-97)	112 (95-128)	40 (38-42)	66 (62-71)	36 (31-42)	8 (8-9)	26 (24-28)
M	52 (48-55)	88 (78-100)	117 (101-131)	50 (48-53)	70 (66-75)	37 (32-44)	7 (6-7)	23 (21-25)
Age, years								
<1	3 (3-4)	10 (9-12)	5 (4-6)	3 (3-4)	2 (2-3)	1 (1-1)	0 (0-1)	1 (1-1)
1-2	9 (8-9)	24 (21-26)	16 (13-18)	8 (7-8)	9 (8-10)	4 (3-4)	1 (1-2)	3 (3-3)
3-4	19 (17-20)	45 (41-50)	39 (34-46)	15 (14-16)	24 (23-26)	12 (10-14)	3 (3-4)	8 (7-8)
5-9	38 (36-41)	81 (73-89)	86 (74-101)	26 (25-28)	59 (55-63)	33 (28-39)	7 (6-8)	20 (18-22)
10-14	54 (51-57)	107 (97-118)	129 (112-145)	37 (35-39)	88 (82-95)	53 (45-64)	10 (9-11)	30 (27-34)
15-19	59 (56-653)	116 (105-128)	145 (129-155)	44 (42-46)	95 (89-101)	57 (49-69)	10 (9-12)	31 (29-34)
20-24	60 (57-63)	114 (104-126)	144 (131-155)	48 (47-51)	87 (81-93)	51 (43-61)	10 (9-11)	29 (26-31)
25-29	61 (58-65)	112 (102-125)	146 (130-156)	51 (49-53)	75 (70-81)	42 (36-50)	9 (8-10)	26 (24-28)
30-34	60 (56-64)	105 (95-117)	142 (125-155)	53 (51-55)	67 (62-72)	35 (30-43)	8 (7-9)	24 (22-26)
35-39	54 (51-57)	93 (84-102)	132 (115-146)	53 (51-56)	61 (57-66)	32 (27-38)	7 (6-8)	23 (21-25)
40-44	55 (51-58)	89 (80-98)	122 (107-138)	53 (51-56)	59 (54-63)	30 (26-37)	6 (6-7)	23 (21-26)
45-49	56 (53-60)	85 (77-94)	115 (101-131)	53 (50-55)	59 (54-64)	30 (25-36)	6 (6-7)	26 (23-29)
50-54	55 (52-59)	79 (72-88)	112 (98-128)	51 (49-53)	61 (57-67)	30 (26-37)	6 (6-7)	30 (27-34)
55-59	54 (51-57)	73 (66-81)	111 (97-129)	49 (47-51)	65 (60-71)	32 (27-38)	6 (5-7)	36 (32-42)
60-64	54 (51-57)	70 (63-78)	106 (92-123)	47 (45-49)	69 (63-76)	34 (29-41)	6 (5-7)	44 (38-51)
65-69	54 (51-58)	68 (62-76)	101 (87-118)	46 (44-48)	75 (68-83)	37 (31-45)	6 (5-7)	51 (43-60)
70-74	53 (50-55)	64 (58-70)	95 (81-112)	45 (43-47)	80 (71-90)	39 (33-48)	6 (6-8)	58 (48-69)
75-79	53 (50-56)	60 (55-66)	94 (79-112)	45 (42-47)	85 (75-97)	41 (34-51)	6 (5-8)	67 (55-81)
80-84	54 (51-57)	58 (53-63)	95 (79-116)	44 (41-46)	90 (78-104)	44 (36-55)	6 (5-8)	76 (62-93)
85-89	53 (50-56)	55 (51-61)	89 (74-109)	42 (40-45)	94 (80-109)	48 (39-60)	6 (5-8)	83 (67-104)
90-94	52 (50-56)	53 (49-57)	90 (73-112)	40 (38-43)	97 (82-115)	55 (44-69)	7 (5-8)	89 (70-115)
95+	50 (47-53)	51 (47-55)	82 (67-103)	38 (36-41)	100 (83-120)	62 (50-77)	6 (5-8)	91 (68-123)
Education, years								
≤6	37 (35-40)	79 (71-87)	119 (101-134)	51 (47-56)	58 (54-62)	31 (27-37)	7 (6-7)	17 (16-19)

>6 to ≤12	57 (54-61)	93 (84-103)	102 (91-113)	50 (48-53)	72 (68-77)	40 (34-48)	7 (6-7)	35 (32-38)
>12	71 (67-75)	92 (84-101)	121 (105-134)	40 (39-42)	83 (77-89)	45 (39-53)	18 (16-20)	55 (51-59)
Urbanicity								
Rural	39 (37-42)	83 (75-91)	97 (87-109)	46 (44-48)	57 (53-62)	32 (27-37)	6 (5-6)	17 (16-19)
Urban	61 (58-65)	91 (83-100)	123 (108-137)	45 (43-47)	71 (67-75)	39 (33-46)	11 (10-12)	36 (33-38)

Table S7. Global and regional processed meat intake (g/day) by age, sex, education, and urban/rural residence in 185 countries in 2018.

	World	Southeast and East Asia	Central/Eastern Europe and Central Asia	High-Income Countries	Latin America and the Caribbean	Middle East and Northern Africa	South Asia	Sub-Saharan Africa
Overall	17 (15-21)	13 (10-17)	54 (45-64)	30 (28-32)	37 (32-43)	19 (11-31)	3 (1-12)	12 (6-26)
Sex								
F	16 (14-20)	13 (10-18)	48 (38-59)	26 (24-28)	36 (30-42)	16 (9-29)	3 (1-12)	12 (5-26)
M	18 (16-22)	13 (9-17)	61 (50-73)	34 (32-37)	38 (33-46)	21 (12-35)	3 (1-13)	13 (6-27)
Age, years								
<1	4 (3-7)	7 (4-14)	10 (6-16)	4 (4-5)	7 (4-10)	4 (1-12)	1 (0-5)	3 (1-9)
1-2	8 (6-12)	13 (8-22)	18 (12-27)	9 (8-10)	13 (10-18)	7 (3-18)	1 (0-8)	5 (2-14)
3-4	13 (10-17)	21 (14-30)	30 (21-41)	15 (14-16)	22 (18-29)	12 (5-25)	2 (1-11)	8 (3-21)
5-10	19 (15-24)	30 (22-38)	44 (33-57)	24 (22-26)	36 (29-44)	18 (9-33)	3 (1-15)	13 (5-29)
11-14	22 (18-28)	32 (24-41)	54 (43-68)	31 (29-33)	45 (37-54)	22 (12-38)	4 (1-17)	15 (7-33)
15-19	22 (18-28)	27 (20-36)	60 (49-74)	34 (32-37)	48 (41-57)	23 (13-39)	4 (1-17)	16 (7-34)
20-24	21 (18-26)	20 (14-28)	63 (51-76)	35 (33-37)	47 (41-56)	23 (13-39)	3 (1-16)	15 (7-32)
25-29	19 (16-24)	13 (10-20)	64 (52-77)	34 (32-37)	45 (38-53)	23 (13-38)	3 (1-15)	14 (7-30)
30-34	18 (15-22)	10 (7-15)	64 (52-76)	34 (32-36)	42 (35-50)	22 (12-37)	3 (1-13)	13 (6-27)
35-39	17 (15-21)	8 (6-14)	62 (51-74)	33 (31-35)	39 (33-47)	21 (11-35)	3 (1-13)	12 (5-26)
40-44	16 (14-19)	7 (5-11)	60 (50-71)	32 (29-34)	36 (31-43)	21 (11-35)	3 (1-12)	11 (5-24)
45-49	15 (13-18)	5 (4-9)	58 (48-69)	31 (29-34)	34 (29-41)	18 (10-31)	3 (1-13)	10 (5-23)
50-54	14 (13-17)	5 (3-8)	56 (46-68)	31 (29-34)	33 (27-39)	16 (9-28)	3 (1-12)	10 (4-22)
55-59	15 (13-18)	4 (3-8)	54 (45-65)	30 (28-33)	31 (26-37)	14 (8-25)	3 (1-12)	9 (4-21)
60-64	15 (13-18)	4 (3-7)	51 (43-62)	29 (27-32)	29 (24-35)	12 (7-22)	3 (1-14)	9 (4-20)
65-69	14 (13-17)	4 (3-6)	49 (40-59)	29 (27-31)	28 (23-34)	12 (7-21)	3 (1-14)	8 (4-20)
70-74	15 (13-17)	4 (3-6)	47 (38-57)	28 (26-31)	26 (22-33)	10 (6-19)	3 (1-14)	8 (4-20)
75-79	16 (14-18)	4 (3-6)	45 (36-56)	29 (27-31)	25 (20-32)	10 (6-18)	3 (1-14)	8 (3-20)
80-84	17 (15-19)	4 (3-5)	44 (35-55)	29 (26-31)	24 (19-31)	9 (6-16)	3 (1-16)	8 (3-20)
85-89	17 (15-19)	4 (3-5)	42 (34-52)	27 (25-29)	23 (18-30)	9 (6-15)	3 (1-16)	8 (3-20)
90-94	18 (16-20)	4 (3-5)	40 (32-51)	26 (24-29)	22 (17-29)	10 (7-16)	3 (1-16)	8 (3-23)
95+	17 (16-19)	4 (3-5)	38 (30-49)	25 (23-27)	21 (16-29)	12 (8-18)	3 (1-15)	9 (3-23)
Education, years								
≤6	13 (10-18)	13 (8-19)	59 (48-73)	30 (27-34)	35 (29-43)	17 (8-30)	3 (1-12)	12 (5-27)

>6 to ≤12	18 (16-21)	12 (9-16)	57 (48-68)	34 (31-37)	37 (32-44)	20 (12-31)	3 (1-12)	12 (6-25)
>12	25 (23-28)	15 (12-17)	51 (41-62)	27 (26-29)	40 (33-49)	23 (14-35)	4 (1-14)	15 (8-30)
Urbanicity								
Rural	13 (10-18)	13 (10-19)	55 (45-67)	34 (31-36)	25 (19-33)	7 (3-16)	4 (1-16)	11 (5-26)
Urban	21 (19-24)	13 (10-17)	53 (44-63)	29 (27-31)	40 (35-47)	25 (14-40)	1 (0-5)	14 (7-27)

Table S8. Global and regional seafood intake (g/day) by age, sex, education, and urban/rural residence in 185 countries in 2018.

	World	Southeast and East Asia	Central/Eastern Europe and Central Asia	High-Income Countries	Latin America and the Caribbean	Middle East and Northern Africa	South Asia	Sub-Saharan Africa
Overall	28 (27-30)	44 (40-48)	30 (26-35)	25 (23-27)	22 (20-24)	23 (19-27)	12 (11-13)	31 (28-34)
Sex								
F	29 (28-31)	46 (41-51)	31 (26-37)	25 (23-27)	22 (20-24)	22 (19-27)	14 (13-15)	32 (29-35)
M	27 (26-29)	43 (38-47)	30 (25-35)	26 (24-28)	22 (20-24)	23 (19-28)	10 (9-11)	30 (27-33)
Age, years								
<1	2 (2-2)	4 (3-4)	1 (1-2)	2 (2-2)	1 (1-1)	1 (1-1)	1 (0-1)	1 (1-2)
1-2	5 (4-5)	9 (8-10)	3 (3-4)	4 (3-4)	3 (3-4)	2 (2-3)	2 (2-2)	5 (4-5)
3-4	10 (9-11)	17 (15-19)	7 (6-9)	6 (6-7)	7 (7-8)	6 (5-8)	4 (4-5)	13 (12-14)
5-10	20 (19-21)	30 (27-33)	15 (12-19)	10 (9-11)	15 (13-17)	15 (12-19)	9 (8-10)	30 (27-33)
11-14	28 (26-30)	41 (37-45)	23 (18-28)	13 (12-15)	22 (19-24)	24 (20-30)	14 (12-15)	43 (39-48)
15-19	31 (29-33)	47 (42-51)	28 (22-34)	16 (15-18)	25 (22-28)	28 (23-34)	15 (14-17)	45 (41-50)
20-24	31 (29-33)	49 (44-53)	30 (25-37)	19 (18-21)	25 (23-28)	28 (24-35)	15 (14-16)	40 (36-44)
25-29	30 (29-32)	48 (43-53)	32 (27-39)	22 (21-24)	24 (22-27)	28 (23-34)	14 (13-15)	34 (31-38)
30-34	30 (28-32)	47 (43-52)	33 (28-40)	25 (24-27)	23 (21-26)	26 (22-33)	13 (12-14)	30 (27-33)
35-39	30 (28-32)	48 (44-53)	33 (28-40)	29 (26-31)	23 (20-26)	26 (21-32)	12 (11-14)	27 (24-30)
40-44	31 (29-33)	47 (43-52)	34 (29-40)	31 (29-35)	22 (20-25)	26 (21-32)	12 (11-13)	27 (24-30)
45-49	32 (30-34)	47 (42-52)	35 (29-41)	32 (30-35)	23 (20-25)	25 (20-31)	12 (11-13)	27 (24-30)
50-54	33 (31-35)	47 (43-52)	36 (30-42)	32 (30-35)	24 (21-27)	24 (20-30)	12 (11-13)	28 (25-33)
55-59	33 (31-35)	48 (44-53)	37 (31-44)	31 (29-34)	25 (22-28)	24 (20-29)	12 (11-13)	31 (26-36)
60-64	34 (32-36)	49 (44-54)	37 (31-44)	31 (28-33)	26 (23-30)	24 (20-29)	12 (10-13)	33 (27-40)
65-69	35 (33-37)	49 (45-54)	37 (31-45)	31 (29-34)	27 (24-31)	25 (21-30)	12 (10-14)	36 (28-45)
70-74	36 (34-38)	51 (46-55)	37 (30-46)	32 (30-35)	28 (24-33)	25 (20-30)	13 (11-15)	38 (30-50)
75-79	37 (34-39)	51 (47-56)	39 (31-49)	33 (30-36)	29 (25-34)	25 (21-31)	13 (11-16)	41 (31-55)
80-84	38 (36-41)	52 (48-57)	40 (31-52)	34 (31-37)	30 (25-37)	26 (21-32)	14 (11-17)	43 (31-59)
85-89	39 (37-41)	54 (49-59)	40 (30-51)	34 (31-38)	31 (25-38)	27 (22-34)	15 (12-18)	45 (31-63)
90-94	39 (37-42)	55 (51-60)	41 (31-55)	33 (30-37)	31 (25-39)	33 (27-41)	15 (12-20)	47 (32-68)
95+	39 (37-42)	57 (52-62)	40 (30-54)	32 (29-36)	31 (25-39)	40 (32-49)	16 (12-21)	51 (34-76)
Education, years								
≤6	26 (25-28)	45 (41-50)	28 (23-35)	33 (29-39)	21 (18-23)	21 (17-26)	11 (10-12)	29 (26-32)

>6 to ≤12	29 (28-31)	44 (40-48)	25 (21-30)	30 (27-33)	22 (20-24)	22 (18-26)	13 (12-14)	33 (30-36)
>12	31 (30-33)	43 (39-46)	34 (29-40)	20 (19-21)	25 (22-28)	28 (24-33)	17 (16-20)	45 (40-50)
Urbanicity								
Rural	26 (25-28)	45 (41-50)	28 (24-32)	27 (25-29)	22 (20-25)	18 (15-22)	11 (10-12)	28 (26-31)
Urban	30 (29-32)	43 (40-47)	32 (27-38)	25 (23-27)	22 (20-24)	25 (21-30)	13 (12-15)	35 (32-39)

Table S9. Global and regional egg intake (g/day) by age, sex, education, and urban/rural residence in 185 countries in 2018.

	World	Southeast and East Asia	Central/Eastern Europe and Central Asia	High-Income Countries	Latin America and the Caribbean	Middle East and Northern Africa	South Asia	Sub-Saharan Africa
Overall	21 (18-24)	35 (27-45)	34 (28-42)	18 (16-22)	25 (23-27)	30 (26-35)	6 (5-7)	6 (5-7)
Sex								
F	21 (19-24)	35 (28-46)	33 (27-41)	18 (15-22)	24 (22-26)	30 (25-34)	6 (6-7)	6 (6-8)
M	21 (18-24)	35 (27-45)	35 (29-43)	19 (16-23)	25 (24-28)	30 (26-35)	6 (5-6)	6 (5-7)
Age, years								
<1	6 (5-7)	12 (9-17)	10 (7-13)	4 (3-6)	8 (7-9)	8 (6-10)	2 (2-3)	2 (2-2)
1-2	9 (8-11)	19 (14-25)	15 (12-20)	7 (5-9)	13 (12-14)	14 (11-17)	4 (3-4)	3 (2-3)
3-4	13 (11-15)	26 (20-34)	22 (17-28)	10 (7-13)	18 (17-20)	21 (17-26)	5 (4-5)	4 (3-4)
5-9	17 (15-20)	34 (26-46)	30 (24-38)	13 (10-18)	25 (23-27)	30 (25-35)	6 (5-7)	5 (4-5)
10-14	20 (18-23)	39 (30-52)	35 (28-46)	16 (13-21)	29 (27-32)	35 (30-41)	7 (6-8)	6 (5-6)
15-19	21 (19-25)	40 (31-54)	38 (31-48)	18 (14-24)	30 (27-32)	37 (31-43)	7 (7-8)	6 (5-6)
20-24	22 (19-26)	40 (30-53)	39 (31-49)	19 (15-25)	29 (26-31)	36 (31-42)	7 (7-8)	6 (5-7)
25-29	23 (20-28)	39 (29-54)	39 (31-50)	19 (15-26)	27 (25-29)	34 (29-40)	7 (7-8)	6 (5-7)
30-34	23 (20-28)	37 (28-51)	39 (30-50)	20 (16-26)	25 (23-28)	32 (27-38)	7 (6-8)	6 (5-7)
35-39	22 (19-26)	36 (27-48)	37 (29-48)	20 (16-26)	24 (22-26)	31 (26-37)	7 (6-7)	6 (5-7)
40-44	23 (20-27)	35 (26-48)	36 (29-47)	20 (16-26)	24 (22-26)	30 (25-36)	6 (5-7)	7 (6-8)
45-49	23 (20-29)	34 (25-48)	36 (28-46)	20 (16-25)	23 (21-26)	29 (24-35)	5 (5-6)	8 (7-10)
50-54	23 (19-28)	33 (25-46)	35 (27-45)	20 (16-26)	23 (21-26)	27 (23-32)	5 (4-5)	9 (7-13)
55-59	23 (19-27)	33 (25-45)	34 (26-45)	20 (16-26)	23 (21-26)	25 (21-30)	4 (4-5)	11 (8-16)
60-64	23 (19-28)	32 (24-45)	33 (25-43)	20 (16-26)	24 (21-27)	25 (21-29)	4 (3-4)	14 (9-21)
65-69	23 (20-28)	32 (24-44)	31 (24-41)	20 (16-26)	24 (21-27)	24 (20-29)	3 (3-4)	16 (9-27)
70-74	23 (20-27)	32 (25-43)	30 (23-40)	20 (16-25)	24 (21-28)	23 (19-28)	3 (3-4)	19 (10-34)
75-79	23 (20-27)	32 (24-43)	30 (23-40)	20 (16-25)	25 (21-29)	23 (19-28)	3 (2-4)	23 (11-43)
80-84	23 (20-27)	31 (25-42)	30 (22-40)	19 (16-24)	25 (20-30)	22 (18-27)	3 (2-3)	27 (12-52)
85-89	23 (21-27)	32 (25-41)	29 (21-39)	19 (16-25)	25 (21-31)	21 (17-27)	2 (2-3)	30 (14-61)
90-94	24 (21-27)	32 (26-41)	28 (20-39)	19 (15-25)	26 (20-33)	23 (18-28)	2 (2-3)	34 (14-71)
95+	23 (21-27)	32 (27-41)	27 (20-37)	19 (15-25)	26 (20-34)	24 (19-29)	2 (1-3)	37 (15-79)
Education, years								
≤6	16 (14-18)	30 (24-40)	33 (26-41)	18 (16-21)	22 (21-24)	29 (24-33)	5 (4-5)	4 (4-5)

>6 to ≤12	23 (20-28)	38 (29-49)	33 (28-40)	18 (16-21)	25 (23-27)	31 (26-36)	7 (6-7)	8 (7-10)
>12	28 (25-32)	38 (30-48)	35 (28-43)	19 (15-23)	30 (28-33)	33 (28-38)	11 (10-13)	17 (14-20)
Urbanicity								
Rural	17 (15-20)	34 (26-45)	34 (28-41)	20 (17-23)	24 (23-27)	27 (23-31)	5 (4-5)	5 (4-5)
Urban	24 (22-28)	36 (28-45)	34 (28-43)	18 (15-22)	25 (23-27)	32 (27-37)	8 (7-9)	9 (8-10)

Table S10. Global and regional milk intake (g/day) by age, sex, education, and urban/rural residence in 185 countries in 2018.

	World	Southeast and East Asia	Central/Eastern Europe and Central Asia	High-Income Countries	Latin America and the Caribbean	Middle East and Northern Africa	South Asia	Sub-Saharan Africa
Overall	88 (84-93)	45 (41-51)	145 (129-165)	185 (173-201)	150 (140-161)	106 (87-131)	84 (77-90)	45 (41-49)
Sex								
F	91 (86-95)	47 (42-52)	149 (131-172)	184 (171-201)	154 (141-166)	110 (89-135)	87 (80-94)	46 (43-50)
M	86 (82-90)	44 (39-50)	141 (124-160)	186 (174-202)	147 (135-159)	103 (83-128)	81 (73-89)	44 (40-47)
Age, years								
<1	63 (58-67)	67 (58-76)	65 (54-80)	255 (218-298)	75 (68-83)	51 (41-65)	48 (42-54)	22 (20-23)
1-2	77 (73-82)	73 (65-82)	99 (86-117)	261 (234-293)	113 (103-123)	76 (62-96)	65 (59-71)	30 (28-33)
3-4	92 (87-98)	78 (70-88)	137 (119-159)	265 (244-291)	155 (142-168)	104 (84-130)	81 (74-89)	40 (37-43)
5-9	112 (105-118)	83 (75-93)	181 (156-212)	268 (248-293)	203 (185-222)	139 (112-175)	100 (90-111)	50 (46-55)
10-14	115 (108-122)	77 (69-87)	196 (169-229)	252 (233-277)	214 (195-233)	151 (122-189)	105 (95-117)	54 (49-59)
15-19	105 (100-111)	65 (58-73)	182 (158-210)	225 (209-246)	192 (176-208)	140 (114-174)	99 (89-109)	50 (46-54)
20-24	92 (88-97)	51 (46-58)	157 (138-179)	197 (184-213)	159 (146-173)	121 (99-151)	88 (81-97)	44 (40-48)
25-29	80 (76-84)	40 (36-45)	138 (120-157)	173 (162-187)	132 (121-145)	102 (82-127)	79 (72-87)	39 (35-43)
30-34	72 (68-76)	33 (30-38)	125 (109-144)	158 (147-171)	116 (105-128)	89 (72-112)	72 (66-80)	37 (33-41)
35-39	70 (66-73)	31 (28-35)	117 (102-134)	149 (138-163)	108 (97-120)	83 (67-105)	69 (62-76)	36 (32-40)
40-44	67 (64-71)	29 (26-33)	114 (100-131)	145 (134-159)	106 (96-118)	81 (64-102)	68 (62-75)	37 (33-41)
45-49	66 (63-70)	28 (25-32)	117 (103-133)	145 (134-158)	110 (99-122)	81 (64-102)	69 (63-76)	40 (35-45)
50-54	71 (68-75)	29 (25-32)	124 (109-141)	149 (138-162)	118 (107-131)	82 (66-105)	72 (66-80)	45 (39-52)
55-59	80 (76-84)	31 (28-35)	135 (118-155)	156 (145-170)	131 (118-146)	86 (68-110)	77 (70-86)	52 (43-62)
60-64	87 (83-92)	33 (29-37)	146 (128-169)	165 (153-179)	147 (130-165)	91 (70-117)	84 (75-94)	61 (49-76)
65-69	94 (89-99)	35 (31-40)	158 (137-184)	173 (161-189)	163 (142-186)	95 (73-126)	89 (78-102)	70 (54-91)
70-74	106 (100-112)	40 (36-44)	170 (146-198)	181 (168-199)	180 (154-209)	100 (75-134)	93 (81-108)	80 (59-108)
75-79	116 (109-123)	43 (39-48)	184 (156-217)	188 (172-207)	197 (166-232)	108 (79-149)	98 (83-116)	92 (65-129)
80-84	128 (120-137)	47 (42-52)	198 (165-238)	194 (177-216)	215 (178-258)	114 (81-160)	103 (86-124)	107 (72-155)
85-89	141 (131-151)	52 (47-57)	210 (174-253)	203 (183-229)	235 (191-287)	120 (83-173)	108 (89-133)	122 (80-182)
90-94	159 (148-172)	58 (53-64)	224 (182-275)	211 (189-238)	258 (207-319)	128 (87-188)	113 (91-142)	137 (87-211)
95+	169 (156-184)	64 (58-70)	232 (188-285)	219 (195-249)	280 (220-352)	131 (87-196)	119 (94-152)	150 (92-237)
Education, years								
≤6	62 (59-66)	34 (30-38)	140 (118-167)	190 (164-225)	119 (109-129)	94 (77-117)	66 (61-73)	35 (32-38)

>6 to ≤12	96 (91-101)	46 (41-51)	135 (120-152)	178 (162-197)	164 (151-177)	117 (93-149)	105 (96-114)	59 (54-65)
>12	131 (125-137)	65 (59-72)	152 (133-176)	189 (178-202)	193 (177-211)	123 (100-153)	126 (115-138)	93 (84-101)
Urbanicity								
Rural	69 (65-73)	40 (36-45)	141 (125-159)	181 (168-198)	114 (106-122)	91 (75-111)	77 (72-84)	38 (35-41)
Urban	105 (100-111)	50 (45-55)	148 (129-170)	186 (173-203)	160 (148-172)	114 (92-143)	97 (88-106)	57 (52-62)

Table S11. Global and regional cheese intake (g/day) by age, sex, education, and urban/rural residence in 185 countries in 2018.

	World	Southeast and East Asia	Central/Eastern Europe and Central Asia	High-Income Countries	Latin America and the Caribbean	Middle East and Northern Africa	South Asia	Sub-Saharan Africa
Overall	8 (8-10)	2 (1-3)	34 (24-47)	32 (28-36)	13 (11-15)	17 (13-23)	1 (0-1)	1 (1-1)
Sex								
F	9 (8-10)	2 (1-4)	34 (24-48)	31 (28-35)	13 (11-15)	18 (14-23)	1 (0-1)	1 (1-1)
M	8 (7-9)	1 (1-3)	34 (24-48)	32 (29-36)	12 (10-14)	17 (13-22)	1 (0-1)	1 (1-1)
Age, years								
<1	1 (1-2)	1 (1-3)	4 (2-7)	4 (4-6)	2 (1-2)	2 (2-3)	0 (0-0)	0 (0-0)
1-2	2 (2-3)	2 (1-4)	9 (6-16)	9 (8-12)	4 (3-5)	5 (3-7)	0 (0-0)	0 (0-1)
3-4	4 (3-5)	2 (1-5)	17 (11-28)	16 (14-20)	8 (6-9)	8 (6-12)	0 (0-1)	1 (0-1)
5-9	6 (6-8)	2 (1-5)	29 (19-45)	27 (23-31)	14 (11-17)	14 (10-20)	1 (0-1)	1 (1-1)
10-14	8 (7-9)	2 (1-6)	38 (26-55)	34 (30-39)	17 (14-21)	18 (14-25)	1 (1-1)	1 (1-2)
15-19	8 (7-10)	2 (1-5)	40 (27-57)	38 (33-43)	17 (14-20)	20 (15-26)	1 (1-1)	1 (1-2)
20-24	9 (8-10)	2 (1-5)	39 (27-56)	38 (34-43)	15 (13-18)	20 (15-27)	1 (0-1)	1 (1-2)
25-29	9 (8-10)	2 (1-4)	37 (25-55)	38 (33-43)	13 (11-16)	19 (14-25)	1 (0-1)	1 (1-2)
30-34	9 (8-10)	2 (1-4)	35 (23-53)	37 (32-42)	11 (9-14)	18 (14-25)	1 (0-1)	1 (1-2)
35-39	9 (8-10)	1 (1-3)	34 (23-51)	36 (31-41)	10 (9-13)	18 (14-25)	1 (0-1)	1 (1-2)
40-44	9 (8-10)	1 (1-3)	33 (23-50)	34 (30-40)	10 (9-12)	19 (14-25)	1 (0-1)	1 (1-2)
45-49	9 (8-10)	1 (1-3)	34 (23-50)	33 (29-38)	10 (9-12)	19 (14-26)	1 (0-1)	1 (1-2)
50-54	9 (8-10)	1 (1-3)	34 (23-50)	32 (28-37)	11 (9-13)	19 (15-25)	1 (0-1)	1 (1-2)
55-59	10 (9-12)	1 (1-2)	34 (23-51)	31 (27-36)	11 (10-14)	19 (15-25)	1 (0-1)	1 (1-2)
60-64	10 (9-12)	1 (1-2)	35 (24-52)	30 (26-35)	12 (10-15)	20 (16-26)	1 (0-1)	1 (1-2)
65-69	11 (10-13)	1 (1-2)	36 (25-54)	29 (26-34)	13 (11-17)	22 (17-28)	1 (0-1)	1 (1-2)
70-74	12 (11-14)	1 (1-2)	38 (27-54)	29 (25-34)	15 (12-18)	23 (18-29)	1 (0-1)	1 (1-3)
75-79	13 (11-15)	1 (1-2)	38 (26-56)	28 (24-33)	16 (13-20)	24 (19-31)	1 (0-1)	2 (1-3)
80-84	14 (12-17)	1 (1-2)	39 (26-58)	27 (23-32)	17 (13-22)	25 (20-32)	1 (0-1)	2 (1-3)
85-89	16 (14-18)	1 (1-2)	41 (28-59)	27 (23-33)	18 (14-23)	27 (22-35)	1 (0-1)	2 (1-3)
90-94	17 (15-20)	1 (1-2)	41 (28-61)	26 (23-31)	19 (15-25)	31 (25-40)	1 (0-1)	2 (1-4)
95+	17 (15-19)	1 (1-2)	42 (30-62)	26 (22-31)	20 (15-26)	35 (28-43)	1 (0-1)	2 (1-4)
Education, years								
≤6	4 (3-5)	1 (1-3)	29 (20-41)	29 (25-35)	9 (7-11)	14 (11-20)	1 (0-1)	1 (1-1)
>6 to ≤12	8 (8-10)	2 (1-4)	33 (24-44)	31 (27-37)	13 (11-15)	20 (16-26)	1 (0-1)	1 (1-2)

>12	18 (16-20)	2 (1-4)	36 (25-51)	33 (30-36)	20 (17-25)	21 (17-27)	1 (1-1)	2 (2-3)
Urbanicity								
Rural	5 (4-5)	1 (1-3)	33 (24-45)	30 (26-34)	9 (7-11)	14 (11-18)	0 (0-1)	1 (1-1)
Urban	12 (10-13)	2 (1-4)	35 (24-49)	32 (29-36)	13 (12-16)	19 (15-25)	1 (1-1)	1 (1-2)

Table S12. Global and regional yogurt intake (g/day) by age, sex, education, and urban/rural residence in 185 countries in 2018.

	World	Southeast and East Asia	Central/Eastern Europe and Central Asia	High-Income Countries	Latin America and the Caribbean	Middle East and Northern Africa	South Asia	Sub-Saharan Africa
Overall	20 (17-23)	10 (7-14)	84 (59-125)	37 (32-46)	18 (15-20)	60 (46-80)	7 (6-8)	7 (5-10)
Sex								
F	22 (19-26)	11 (8-17)	89 (61-135)	41 (35-50)	19 (16-22)	62 (48-83)	7 (6-9)	7 (6-11)
M	18 (16-21)	8 (5-12)	77 (54-118)	33 (28-41)	16 (14-19)	58 (44-79)	7 (5-8)	7 (5-9)
Age, years								
<1	6 (5-8)	4 (2-7)	7 (5-13)	58 (44-78)	3 (3-4)	9 (6-13)	1 (1-1)	1 (1-1)
1-2	8 (7-10)	6 (4-10)	19 (12-32)	47 (38-62)	8 (7-9)	18 (13-25)	2 (2-2)	2 (1-2)
3-4	12 (10-14)	9 (6-15)	38 (25-67)	41 (34-53)	14 (12-17)	31 (24-43)	4 (3-5)	4 (3-5)
5-9	18 (16-22)	12 (8-21)	72 (47-121)	35 (29-46)	25 (22-30)	52 (39-71)	7 (6-9)	7 (5-9)
10-14	22 (19-26)	13 (9-23)	97 (63-156)	33 (27-43)	29 (26-35)	67 (51-92)	10 (7-12)	8 (6-11)
15-19	21 (18-25)	13 (8-21)	101 (68-161)	33 (27-42)	26 (23-31)	71 (55-97)	10 (7-12)	8 (6-11)
20-24	20 (17-24)	11 (7-18)	94 (63-151)	33 (28-43)	21 (18-24)	68 (52-93)	8 (7-10)	7 (5-9)
25-29	20 (17-24)	9 (6-16)	88 (57-149)	34 (29-44)	16 (14-19)	64 (49-88)	7 (5-9)	6 (4-8)
30-34	19 (16-24)	8 (5-14)	82 (52-143)	36 (30-47)	13 (11-16)	62 (47-86)	6 (5-8)	6 (4-8)
35-39	19 (16-24)	8 (5-12)	78 (49-138)	37 (30-48)	11 (9-14)	60 (45-85)	6 (4-7)	5 (4-8)
40-44	19 (16-23)	7 (5-12)	77 (49-135)	37 (31-49)	11 (9-13)	60 (45-85)	6 (4-7)	6 (4-8)
45-49	18 (16-22)	7 (5-12)	77 (50-131)	38 (32-50)	11 (9-14)	61 (45-84)	6 (4-7)	7 (5-10)
50-54	19 (16-24)	7 (5-12)	78 (50-137)	38 (32-50)	12 (10-15)	62 (47-85)	6 (4-8)	8 (5-14)
55-59	22 (18-27)	8 (5-13)	82 (51-142)	37 (32-48)	13 (11-17)	64 (49-88)	6 (5-8)	11 (6-20)
60-64	24 (20-30)	8 (6-14)	86 (54-153)	37 (31-47)	15 (12-19)	68 (51-92)	7 (5-9)	14 (6-31)
65-69	25 (21-32)	10 (7-16)	92 (58-161)	38 (32-48)	17 (13-22)	71 (53-96)	8 (5-11)	18 (7-44)
70-74	29 (24-35)	13 (10-19)	99 (63-167)	39 (33-51)	20 (15-26)	74 (55-101)	8 (5-12)	22 (8-63)
75-79	32 (27-39)	14 (11-21)	102 (64-179)	39 (33-51)	22 (16-30)	79 (58-109)	9 (5-14)	28 (8-90)
80-84	36 (30-46)	17 (13-23)	104 (62-191)	40 (33-51)	24 (17-35)	83 (61-117)	9 (5-15)	34 (9-122)
85-89	39 (33-48)	21 (16-29)	108 (66-191)	40 (33-52)	27 (19-41)	90 (65-125)	10 (5-17)	42 (10-162)
90-94	42 (35-53)	27 (21-37)	109 (62-206)	39 (32-51)	30 (20-46)	95 (69-132)	10 (5-19)	50 (11-206)
95+	41 (35-50)	33 (25-45)	109 (64-202)	39 (31-51)	33 (21-52)	101 (74-136)	11 (5-21)	59 (11-251)
Education, years								
≤6	11 (10-13)	5 (3-8)	61 (40-96)	39 (32-51)	12 (10-14)	51 (39-69)	5 (4-6)	5 (4-7)

>6 to ≤12	20 (18-24)	10 (7-15)	75 (53-111)	38 (32-49)	19 (17-22)	68 (51-95)	8 (7-10)	9 (7-13)
>12	38 (32-46)	18 (14-25)	94 (63-144)	36 (31-43)	28 (23-33)	72 (57-96)	15 (12-19)	21 (15-30)
Urbanicity								
Rural	12 (11-15)	6 (4-10)	72 (51-104)	36 (31-44)	13 (11-16)	41 (32-55)	7 (5-8)	5 (3-7)
Urban	27 (23-31)	12 (9-18)	90 (62-138)	37 (32-46)	19 (16-21)	69 (54-94)	8 (6-10)	11 (8-15)

Table S13. National ASF intake (g/day) in children and adults from 185 countries in 2018.

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
World	51 (48-54)	17 (15-21)	28 (27-30)	21 (18-24)	88 (84-93)	8 (8-10)	20 (17-23)
Southeast and East Asia	87 (79-96)	13 (10-17)	44 (40-48)	35 (27-45)	45 (41-51)	2 (1-3)	10 (7-14)
Central/Eastern Europe and Central Asia	114 (101-126)	54 (45-64)	30 (26-35)	34 (28-42)	145 (129-165)	34 (24-47)	84 (59-125)
High-Income Countries	45 (43-47)	30 (28-32)	25 (23-27)	18 (16-22)	185 (173-201)	32 (28-36)	37 (32-46)
Latin America and the Caribbean	68 (64-72)	37 (32-43)	22 (20-24)	25 (23-27)	150 (140-161)	13 (11-15)	18 (15-20)
Middle East and Northern Africa	36 (31-43)	19 (11-31)	23 (19-27)	30 (26-35)	106 (87-131)	17 (13-23)	60 (46-80)
South Asia	7 (7-8)	3 (1-12)	12 (11-13)	6 (5-7)	84 (77-90)	1 (0-1)	7 (6-8)
Sub-Saharan Africa	24 (23-26)	12 (6-26)	31 (28-34)	6 (5-7)	45 (41-49)	1 (1-1)	7 (5-10)
Afghanistan	9 (6-13)	2 (1-11)	3 (2-6)	8 (6-12)	70 (48-98)	1 (0-2)	10 (5-20)
Albania	68 (58-79)	73 (50-96)	18 (14-24)	87 (73-104)	114 (95-136)	17 (12-23)	83 (49-143)
Algeria	39 (28-54)	10 (4-23)	24 (13-45)	34 (26-46)	151 (77-299)	24 (13-42)	47 (26-90)
Angola	18 (15-23)	2 (1-5)	38 (30-48)	1 (1-1)	33 (27-40)	2 (1-3)	11 (7-17)
Antigua and Barbuda	32 (24-41)	41 (23-67)	46 (34-65)	19 (14-24)	105 (83-133)	9 (5-16)	18 (11-32)
Argentina	88 (75-104)	24 (21-28)	12 (9-15)	30 (26-35)	136 (108-172)	32 (29-37)	39 (31-48)
Armenia	65 (52-81)	106 (81-122)	48 (33-70)	40 (32-50)	73 (56-94)	19 (13-28)	94 (55-162)
Australia	58 (50-67)	16 (13-19)	29 (24-34)	24 (19-32)	205 (169-249)	37 (23-55)	61 (36-107)
Austria	105 (87-125)	56 (28-107)	21 (16-27)	24 (19-32)	117 (98-139)	35 (22-52)	62 (37-102)
Azerbaijan	96 (82-113)	100 (75-117)	22 (17-29)	40 (33-47)	91 (75-110)	32 (19-50)	30 (22-41)
Bahrain	40 (28-56)	26 (11-54)	36 (25-51)	31 (24-42)	128 (92-180)	19 (10-34)	66 (38-125)
Bangladesh	8 (7-9)	0 (0-1)	42 (38-45)	11 (10-12)	36 (33-39)	1 (0-1)	3 (2-4)
Barbados	66 (50-86)	12 (9-18)	46 (33-63)	71 (56-90)	65 (46-91)	8 (4-14)	21 (12-37)
Belarus	73 (41-128)	39 (23-61)	22 (16-29)	36 (27-47)	151 (84-276)	21 (12-35)	71 (41-125)
Belgium	57 (49-66)	28 (24-33)	20 (16-24)	10 (6-15)	95 (77-118)	64 (44-92)	21 (11-41)
Belize	102 (77-129)	56 (34-85)	26 (19-36)	30 (23-39)	134 (105-172)	8 (5-15)	19 (11-33)
Benin	17 (15-21)	26 (9-64)	22 (18-27)	9 (8-12)	24 (21-28)	2 (1-3)	7 (5-10)
Bhutan	19 (13-30)	2 (0-8)	25 (16-38)	14 (10-20)	103 (72-142)	1 (0-3)	9 (5-18)
Bolivia	96 (88-106)	16 (8-33)	14 (12-16)	21 (19-24)	79 (72-88)	11 (8-15)	17 (10-29)
Bosnia and Herzegovina	156 (105-219)	28 (19-39)	10 (8-14)	23 (18-30)	274 (179-425)	32 (19-51)	76 (45-132)
Botswana	29 (23-36)	11 (4-27)	24 (19-31)	10 (8-12)	85 (70-104)	1 (1-1)	21 (13-34)

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Brazil	72 (66-79)	42 (35-51)	29 (26-32)	16 (13-18)	182 (161-207)	9 (7-10)	10 (8-13)
Brunei	96 (73-123)	56 (33-83)	75 (55-101)	36 (27-50)	51 (40-67)	1 (1-3)	11 (6-22)
Bulgaria	71 (61-81)	34 (27-42)	23 (17-30)	14 (10-19)	131 (111-157)	45 (33-62)	503 (324-614)
Burkina Faso	3 (2-4)	8 (2-28)	29 (24-35)	3 (2-4)	27 (23-32)	1 (0-1)	3 (2-4)
Burundi	12 (10-15)	6 (2-15)	33 (27-41)	4 (3-5)	24 (20-29)	0 (0-1)	1 (0-1)
Cambodia	25 (23-28)	12 (5-29)	71 (63-79)	13 (12-15)	22 (19-25)	0 (0-0)	0 (0-1)
Cameroon	13 (11-15)	3 (1-9)	41 (33-51)	9 (7-11)	41 (36-47)	1 (1-2)	5 (4-7)
Canada	45 (42-48)	23 (21-26)	17 (16-19)	24 (22-27)	198 (180-220)	29 (27-33)	26 (22-32)
Cape Verde	22 (17-27)	7 (3-18)	26 (21-33)	19 (15-24)	64 (52-78)	1 (1-2)	14 (8-23)
Central African Republic	82 (70-97)	6 (2-19)	38 (31-49)	6 (5-7)	11 (8-16)	1 (1-2)	8 (5-13)
Chad	32 (28-36)	4 (2-14)	25 (21-30)	4 (3-5)	23 (20-26)	1 (0-1)	6 (4-8)
Chile	19 (11-35)	54 (36-84)	17 (11-26)	42 (32-54)	190 (116-310)	14 (8-24)	41 (25-64)
China	111 (99-125)	5 (4-6)	38 (33-43)	38 (27-51)	35 (29-43)	2 (1-4)	7 (4-13)
Colombia	98 (90-107)	77 (60-96)	40 (35-47)	31 (28-35)	52 (47-58)	7 (5-10)	29 (23-35)
Comoros	24 (20-29)	6 (2-16)	56 (47-67)	10 (8-13)	53 (44-63)	1 (1-1)	17 (11-26)
Congo	23 (19-27)	29 (11-61)	71 (60-84)	1 (1-1)	46 (39-54)	1 (1-1)	28 (21-40)
Costa Rica	75 (57-98)	46 (26-75)	74 (54-97)	32 (24-41)	149 (118-190)	13 (8-23)	19 (11-34)
Cote d'Ivoire	13 (11-16)	6 (2-16)	53 (44-64)	5 (4-7)	33 (27-39)	1 (0-1)	10 (7-16)
Croatia	252 (228-255)	112 (70-127)	39 (24-66)	29 (22-38)	228 (140-371)	30 (17-48)	89 (52-152)
Cuba	145 (115-177)	41 (22-69)	10 (7-14)	35 (27-46)	142 (112-181)	12 (7-21)	17 (10-31)
Cyprus	72 (45-112)	10 (6-17)	23 (14-37)	15 (12-20)	82 (51-136)	36 (23-55)	45 (27-80)
Czech Republic	65 (51-82)	42 (26-62)	23 (18-31)	25 (19-33)	94 (52-172)	22 (12-36)	101 (60-174)
Democratic Republic of the Congo	12 (10-14)	30 (12-64)	44 (37-51)	1 (1-1)	37 (32-44)	0 (0-1)	7 (5-10)
Denmark	54 (43-69)	36 (24-53)	36 (28-47)	15 (11-19)	187 (151-229)	28 (18-44)	61 (36-105)
Djibouti	22 (18-28)	23 (9-52)	35 (28-45)	30 (24-37)	49 (41-59)	1 (1-2)	11 (7-18)
Dominica	24 (18-31)	12 (6-26)	17 (13-24)	17 (13-21)	135 (107-172)	11 (6-19)	19 (11-33)
Dominican Republic	50 (45-55)	36 (20-62)	16 (14-18)	20 (18-22)	101 (91-113)	8 (6-12)	6 (4-9)
Ecuador	52 (33-83)	4 (2-7)	19 (11-32)	17 (12-25)	75 (60-94)	5 (4-6)	22 (12-37)
Egypt	30 (27-34)	7 (3-18)	14 (13-16)	21 (19-24)	51 (45-57)	6 (4-9)	15 (11-19)
El Salvador	49 (37-65)	49 (28-78)	10 (8-14)	21 (16-26)	96 (76-122)	12 (7-21)	18 (11-32)
Equatorial Guinea	27 (21-33)	5 (2-13)	54 (43-68)	4 (3-5)	40 (33-48)	2 (1-2)	11 (7-17)

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Eritrea	24 (19-30)	5 (2-14)	53 (42-66)	9 (7-11)	51 (42-61)	1 (1-2)	9 (6-15)
Estonia	76 (67-85)	88 (72-104)	30 (26-36)	36 (30-42)	396 (340-458)	94 (84-102)	145 (113-186)
Ethiopia	11 (9-12)	25 (6-72)	5 (4-6)	7 (5-8)	44 (39-50)	3 (2-3)	7 (5-12)
Federated States of Micronesia	35 (26-46)	31 (14-58)	59 (43-81)	32 (24-44)	23 (18-31)	2 (1-5)	7 (4-13)
Fiji	22 (16-29)	13 (6-27)	37 (28-51)	47 (35-62)	48 (38-61)	2 (1-4)	10 (5-19)
Finland	61 (54-69)	58 (50-68)	39 (29-52)	20 (14-28)	338 (289-394)	32 (23-43)	62 (39-96)
France	48 (44-52)	31 (28-35)	30 (28-33)	11 (10-12)	188 (103-335)	38 (35-41)	71 (63-81)
Gabon	32 (27-39)	8 (3-21)	32 (26-38)	12 (9-15)	63 (54-73)	1 (1-1)	7 (5-11)
Georgia	15 (9-28)	67 (41-94)	57 (43-75)	21 (16-28)	94 (53-168)	68 (46-88)	57 (32-106)
Germany	48 (44-52)	62 (54-71)	18 (16-20)	23 (21-26)	171 (138-211)	24 (21-28)	46 (39-54)
Ghana	15 (13-17)	3 (1-9)	90 (81-101)	12 (10-14)	31 (27-35)	1 (0-1)	2 (1-3)
Greece	77 (64-95)	5 (4-7)	31 (24-39)	16 (12-21)	129 (97-169)	31 (19-46)	64 (38-108)
Grenada	23 (18-31)	10 (5-22)	25 (18-34)	30 (23-39)	80 (64-101)	6 (4-11)	17 (10-30)
Guatemala	60 (55-66)	42 (23-71)	6 (5-7)	25 (22-28)	59 (52-67)	11 (6-19)	14 (10-18)
Guinea	14 (11-17)	18 (7-43)	17 (13-21)	4 (3-5)	29 (25-34)	1 (1-1)	4 (2-6)
Guinea-Bissau	22 (17-27)	5 (2-14)	17 (14-23)	5 (4-6)	52 (43-63)	1 (1-2)	8 (5-13)
Guyana	46 (40-53)	71 (46-99)	43 (36-51)	23 (20-27)	134 (116-156)	8 (5-11)	16 (9-28)
Haiti	16 (14-19)	18 (8-38)	20 (17-24)	5 (4-6)	65 (58-74)	2 (2-3)	2 (1-3)
Honduras	32 (28-36)	58 (35-87)	12 (10-14)	26 (23-29)	75 (66-85)	9 (7-13)	3 (2-4)
Hungary	22 (17-28)	12 (9-16)	12 (6-24)	26 (19-33)	58 (42-79)	23 (13-39)	89 (52-154)
Iceland	60 (53-67)	24 (19-31)	47 (41-53)	19 (15-25)	320 (272-378)	36 (22-52)	64 (38-108)
India	3 (3-4)	3 (1-12)	10 (9-11)	4 (4-5)	91 (84-99)	1 (0-1)	7 (6-9)
Indonesia	26 (23-28)	37 (18-66)	57 (51-64)	28 (25-31)	43 (39-47)	1 (1-1)	2 (1-2)
Iran	16 (15-18)	7 (5-9)	9 (8-10)	14 (13-16)	38 (34-43)	11 (10-13)	71 (62-81)
Iraq	55 (38-77)	39 (17-70)	26 (19-38)	106 (87-122)	88 (63-124)	23 (12-41)	49 (28-94)
Ireland	37 (26-53)	35 (22-56)	13 (9-21)	16 (12-21)	492 (346-616)	43 (28-61)	56 (34-95)
Israel	132 (116-149)	90 (75-103)	128 (111-148)	61 (54-69)	149 (108-207)	72 (65-80)	150 (127-177)
Italy	53 (49-58)	20 (18-23)	61 (55-69)	14 (12-16)	103 (92-115)	20 (17-23)	16 (13-19)
Jamaica	12 (9-16)	14 (10-19)	47 (36-59)	27 (21-34)	129 (95-178)	10 (6-17)	16 (10-28)
Japan	90 (86-94)	15 (13-18)	50 (46-55)	40 (39-41)	76 (72-81)	2 (2-3)	60 (48-77)
Jordan	55 (49-61)	40 (18-74)	54 (47-63)	27 (24-31)	118 (104-135)	16 (8-28)	35 (27-47)

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Kazakhstan	97 (79-119)	45 (28-66)	33 (24-47)	32 (24-41)	88 (73-106)	46 (28-66)	53 (34-81)
Kenya	15 (13-17)	1 (1-2)	11 (9-13)	4 (3-5)	95 (84-106)	1 (1-1)	5 (4-7)
Kiribati	37 (27-49)	32 (15-59)	61 (44-82)	33 (25-45)	26 (20-34)	2 (1-5)	8 (4-15)
Kuwait	26 (22-32)	38 (14-76)	70 (58-86)	44 (32-60)	229 (168-312)	24 (12-41)	76 (44-143)
Kyrgyzstan	39 (33-47)	26 (14-46)	2 (1-3)	15 (12-18)	58 (47-70)	6 (4-9)	39 (27-56)
Laos	41 (36-47)	20 (13-32)	67 (59-77)	19 (16-23)	40 (30-54)	2 (1-4)	8 (5-13)
Latvia	203 (167-232)	60 (38-92)	35 (26-46)	31 (23-40)	154 (116-204)	38 (22-58)	98 (57-167)
Lebanon	24 (21-27)	11 (9-14)	12 (11-14)	17 (14-19)	91 (77-109)	24 (20-28)	77 (63-93)
Lesotho	25 (22-30)	5 (2-13)	10 (9-13)	9 (7-11)	56 (48-65)	1 (1-1)	10 (6-15)
Liberia	25 (21-29)	46 (18-88)	59 (51-67)	8 (7-10)	35 (29-41)	1 (1-2)	5 (4-8)
Libya	37 (27-51)	16 (7-38)	32 (23-46)	29 (22-39)	125 (92-175)	18 (9-31)	63 (36-117)
Lithuania	144 (112-184)	45 (27-66)	30 (21-43)	47 (36-61)	631 (557-636)	29 (17-47)	104 (62-177)
Luxembourg	99 (57-170)	95 (44-127)	30 (16-55)	33 (25-43)	136 (75-246)	41 (26-58)	56 (34-96)
Macedonia	52 (41-65)	63 (41-86)	25 (19-34)	15 (12-20)	198 (164-241)	32 (19-50)	80 (48-138)
Madagascar	27 (24-31)	7 (2-19)	40 (35-47)	4 (3-4)	33 (29-38)	1 (1-2)	5 (3-7)
Malawi	14 (12-16)	7 (3-19)	38 (33-43)	5 (4-6)	25 (22-29)	0 (0-1)	3 (2-5)
Malaysia	21 (18-24)	18 (13-23)	91 (76-109)	25 (21-29)	30 (23-39)	2 (1-6)	9 (5-17)
The Maldives	30 (25-36)	16 (4-51)	40 (35-47)	16 (13-19)	166 (141-195)	3 (1-9)	20 (14-28)
Mali	20 (18-23)	11 (4-30)	53 (46-61)	4 (3-5)	76 (67-86)	1 (1-1)	6 (4-9)
Malta	62 (44-86)	38 (24-60)	41 (28-58)	12 (8-20)	221 (152-324)	21 (13-33)	57 (34-99)
Marshall Islands	34 (26-45)	14 (7-28)	49 (36-69)	24 (18-32)	68 (53-87)	2 (1-5)	8 (4-16)
Mauritania	19 (15-23)	45 (14-92)	34 (27-43)	10 (8-13)	65 (53-80)	1 (1-2)	12 (8-20)
Mauritius	45 (20-98)	38 (27-53)	47 (36-61)	18 (14-25)	72 (59-88)	1 (1-2)	23 (13-43)
Mexico	47 (44-50)	18 (17-20)	8 (7-9)	37 (34-39)	206 (190-223)	14 (13-15)	18 (16-21)
Moldova	93 (53-164)	68 (46-90)	30 (22-39)	29 (22-37)	102 (55-184)	37 (22-57)	77 (46-134)
Mongolia	82 (65-103)	121 (93-129)	17 (12-23)	103 (84-119)	154 (127-189)	49 (30-70)	65 (37-115)
Montenegro	205 (131-249)	65 (33-114)	53 (31-91)	30 (23-39)	433 (260-608)	34 (20-53)	100 (58-171)
Morocco	27 (15-48)	26 (11-51)	35 (21-59)	32 (21-50)	133 (77-232)	7 (4-11)	53 (30-98)
Mozambique	20 (17-23)	5 (2-15)	40 (34-47)	12 (10-15)	26 (21-31)	1 (1-1)	4 (2-6)
Myanmar	103 (78-133)	40 (22-65)	129 (97-166)	45 (33-61)	85 (66-110)	1 (1-3)	8 (4-16)
Namibia	25 (22-28)	8 (3-23)	23 (20-27)	11 (9-13)	69 (60-79)	5 (3-7)	10 (7-15)
Nepal	12 (11-14)	1 (0-4)	8 (7-10)	5 (5-6)	51 (45-57)	0 (0-1)	6 (5-7)

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Netherlands	45 (43-48)	23 (20-26)	13 (12-14)	10 (9-11)	161 (141-185)	30 (28-33)	148 (125-175)
New Zealand	53 (46-61)	33 (27-39)	28 (22-37)	17 (13-23)	205 (171-247)	68 (49-86)	56 (33-97)
Nicaragua	37 (28-50)	50 (28-79)	18 (13-24)	26 (21-34)	106 (85-136)	7 (4-13)	16 (10-28)
Niger	4 (3-5)	4 (1-16)	6 (5-8)	3 (2-3)	54 (46-63)	1 (1-1)	12 (8-16)
Nigeria	20 (18-23)	7 (2-20)	33 (30-37)	5 (4-5)	31 (27-35)	1 (1-1)	6 (4-8)
Norway	85 (73-99)	27 (18-44)	62 (53-74)	18 (14-24)	199 (168-234)	35 (22-53)	58 (35-98)
Oman	44 (31-62)	33 (14-63)	32 (22-47)	36 (27-49)	140 (102-196)	17 (9-31)	63 (36-119)
Pakistan	28 (25-32)	6 (2-27)	4 (3-6)	13 (11-15)	72 (63-82)	1 (0-1)	6 (4-8)
Palestine	40 (28-55)	21 (8-46)	32 (23-46)	30 (23-40)	137 (101-193)	17 (9-31)	62 (35-115)
Panama	75 (57-97)	50 (29-78)	25 (18-33)	14 (11-18)	118 (94-153)	10 (6-18)	22 (13-38)
Papua New Guinea	186 (153-215)	7 (2-22)	0 (0-0)	3 (2-4)	8 (6-11)	2 (1-5)	6 (3-12)
Paraguay	131 (101-162)	31 (15-56)	12 (9-16)	29 (22-38)	79 (63-102)	23 (13-38)	12 (7-22)
Peru	108 (99-119)	33 (17-60)	43 (32-58)	28 (25-31)	74 (67-81)	23 (13-37)	10 (8-13)
The Philippines	25 (23-28)	45 (39-54)	25 (22-27)	19 (17-21)	96 (86-106)	1 (1-1)	5 (4-6)
Poland	68 (64-73)	62 (58-68)	19 (17-21)	26 (24-28)	141 (131-153)	45 (42-49)	41 (36-47)
Portugal	66 (61-72)	17 (15-18)	57 (52-62)	17 (16-19)	189 (173-208)	18 (17-20)	66 (59-75)
Qatar	37 (26-54)	28 (11-58)	34 (24-51)	30 (22-41)	117 (84-165)	18 (9-34)	66 (36-128)
Romania	70 (60-81)	50 (42-60)	41 (34-51)	54 (46-62)	154 (126-188)	76 (66-87)	61 (47-80)
Russia	188 (154-221)	52 (40-68)	35 (27-44)	38 (29-49)	178 (139-230)	30 (17-48)	94 (55-162)
Rwanda	5 (4-6)	2 (1-6)	25 (21-29)	2 (2-2)	27 (24-32)	0 (0-1)	2 (1-3)
Saint Lucia	39 (29-51)	9 (4-20)	18 (13-25)	11 (9-14)	84 (66-107)	6 (3-10)	17 (10-29)
Saint Vincent and the Grenadines	57 (43-74)	19 (10-37)	32 (24-43)	15 (12-19)	133 (106-170)	10 (6-17)	17 (10-30)
Samoa	30 (22-40)	24 (13-44)	44 (33-61)	5 (4-7)	135 (104-176)	3 (1-7)	9 (4-17)
Sao Tome and Principe	8 (6-10)	21 (8-50)	74 (64-86)	4 (3-5)	92 (75-112)	1 (1-2)	25 (17-36)
Saudi Arabia	35 (25-49)	67 (31-102)	46 (32-66)	42 (32-57)	85 (62-118)	19 (10-33)	68 (39-123)
Senegal	8 (7-9)	22 (8-51)	44 (39-50)	3 (2-3)	17 (15-19)	1 (1-1)	12 (9-18)
Serbia	75 (52-111)	31 (17-56)	17 (11-27)	24 (15-41)	133 (88-203)	23 (14-41)	75 (45-132)
Seychelles	19 (16-22)	13 (10-17)	175 (155-194)	10 (8-13)	49 (39-60)	2 (2-3)	11 (7-21)
Sierra Leone	10 (9-12)	67 (31-105)	48 (43-55)	6 (5-7)	33 (29-38)	1 (0-1)	3 (2-5)
Singapore	47 (41-55)	16 (13-20)	50 (43-59)	33 (24-46)	49 (40-61)	1 (0-2)	10 (5-20)
Slovakia	33 (27-41)	57 (46-72)	9 (6-12)	10 (7-13)	93 (70-123)	15 (12-20)	42 (29-61)

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Slovenia	55 (39-80)	36 (23-55)	34 (22-53)	41 (31-53)	169 (110-257)	25 (14-41)	101 (59-173)
Solomon Islands	49 (37-67)	28 (13-54)	30 (22-41)	12 (9-17)	86 (67-112)	2 (1-5)	7 (4-14)
South Africa	147 (132-162)	17 (13-23)	5 (4-6)	23 (18-29)	94 (82-108)	1 (1-2)	19 (12-33)
South Korea	42 (40-45)	2 (2-2)	22 (20-23)	20 (19-21)	114 (106-123)	3 (3-4)	23 (20-26)
South Sudan	21 (16-26)	6 (2-15)	45 (36-58)	7 (6-9)	44 (36-53)	1 (1-2)	7 (5-12)
Spain	55 (38-80)	32 (21-50)	66 (44-97)	18 (14-24)	229 (151-344)	43 (28-61)	49 (30-83)
Sri Lanka	43 (37-50)	6 (4-10)	25 (16-38)	11 (7-15)	144 (122-171)	1 (0-3)	13 (8-21)
Sudan	17 (14-21)	8 (3-27)	48 (39-61)	8 (6-10)	83 (67-103)	1 (1-2)	8 (5-13)
Suriname	71 (54-93)	46 (26-74)	25 (19-34)	19 (15-25)	90 (71-117)	13 (7-22)	16 (10-29)
Swaziland	20 (17-24)	3 (1-9)	2 (2-3)	3 (2-3)	47 (40-56)	0 (0-1)	12 (8-18)
Sweden	70 (65-75)	32 (29-37)	35 (31-40)	22 (19-25)	242 (214-274)	23 (21-26)	90 (76-109)
Switzerland	48 (37-62)	21 (17-26)	40 (31-52)	16 (13-20)	107 (83-137)	29 (23-35)	66 (49-88)
Syria	38 (27-52)	17 (7-37)	33 (23-47)	30 (22-40)	125 (92-174)	18 (9-31)	59 (33-108)
Taiwan	72 (64-82)	18 (15-22)	29 (25-33)	33 (24-45)	47 (38-57)	2 (1-4)	10 (5-20)
Tajikistan	51 (41-63)	79 (47-108)	7 (5-10)	19 (15-24)	71 (57-88)	4 (3-6)	52 (36-76)
Tanzania	28 (25-32)	4 (1-11)	27 (22-32)	4 (3-5)	41 (36-47)	1 (0-1)	4 (3-7)
Thailand	38 (25-58)	12 (6-23)	46 (34-63)	31 (23-43)	67 (40-110)	2 (1-4)	6 (3-11)
The Bahamas	49 (37-65)	20 (10-43)	21 (15-29)	53 (41-68)	150 (119-191)	12 (7-21)	23 (13-42)
The Gambia	7 (5-9)	35 (13-72)	39 (32-46)	7 (6-9)	15 (13-19)	1 (1-1)	2 (1-3)
Timor-Leste	20 (18-23)	31 (16-55)	25 (22-30)	12 (10-14)	45 (39-53)	2 (1-5)	2 (1-3)
Togo	13 (11-16)	23 (9-54)	54 (45-64)	6 (4-7)	11 (8-14)	1 (1-1)	3 (2-6)
Tonga	35 (26-48)	15 (8-31)	51 (37-71)	25 (18-34)	71 (55-93)	2 (1-6)	8 (4-16)
Trinidad and Tobago	65 (50-86)	40 (21-69)	25 (22-30)	15 (11-19)	113 (90-145)	6 (4-9)	20 (12-36)
Tunisia	39 (24-61)	1 (1-2)	38 (25-57)	31 (22-44)	181 (94-346)	2 (2-4)	49 (27-94)
Turkey	51 (36-72)	5 (3-7)	6 (3-12)	16 (10-26)	176 (116-268)	32 (23-44)	112 (66-193)
Turkmenistan	86 (69-107)	69 (41-99)	12 (9-16)	20 (15-25)	114 (94-141)	49 (30-71)	60 (34-109)
Uganda	11 (10-13)	5 (2-15)	12 (10-13)	4 (3-5)	58 (51-66)	0 (0-1)	2 (1-3)
Ukraine	39 (22-69)	52 (33-75)	32 (24-42)	31 (24-40)	126 (102-157)	29 (17-46)	84 (49-146)
United Arab Emirates	29 (21-42)	38 (14-77)	41 (28-58)	30 (22-41)	129 (93-181)	20 (11-37)	65 (36-120)
United Kingdom	41 (37-46)	34 (29-39)	29 (23-36)	18 (14-24)	204 (178-235)	39 (25-57)	52 (31-91)
United States	34 (33-36)	24 (23-26)	11 (11-12)	19 (15-25)	189 (178-201)	30 (28-32)	14 (13-16)
Uruguay	73 (55-97)	51 (30-80)	24 (18-32)	33 (25-43)	166 (131-213)	12 (6-20)	25 (14-44)

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Uzbekistan	104 (85-127)	49 (29-76)	47 (35-64)	36 (27-46)	92 (72-117)	40 (24-61)	65 (43-97)
Vanuatu	48 (36-63)	9 (4-19)	41 (30-57)	24 (18-32)	57 (45-73)	2 (1-5)	7 (4-14)
Venezuela	45 (34-59)	36 (19-63)	11 (8-15)	16 (13-21)	166 (132-211)	13 (7-22)	21 (13-38)
Vietnam	53 (36-77)	10 (5-22)	61 (42-89)	45 (34-60)	41 (32-54)	2 (1-4)	6 (3-12)
Yemen	22 (18-26)	20 (7-46)	11 (9-13)	7 (6-8)	102 (85-122)	7 (5-10)	16 (12-22)
Zambia	44 (39-49)	13 (5-34)	44 (39-49)	9 (8-10)	31 (28-35)	1 (0-1)	4 (3-6)
Zimbabwe	28 (25-32)	8 (3-21)	19 (16-21)	11 (9-13)	65 (59-73)	1 (0-1)	17 (13-24)

Table S14. Absolute change in ASF intake (servings/week) in women versus men from 185 countries in 2018.

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
World	-0·1 (-0·39-0·19)	-0·31 (-0·49--0·14)	0·11 (0-0·22)	0·03 (-0·15-0·22)	0·11 (0·02-0·2)	0·03 (-0·04-0·11)	0·09 (0·05-0·14)
Southeast and East Asia	-0·7 (-13·47-12·41)	0·42 (-1·59-2·44)	2·3 (-2·56-7·43)	0·9 (-3·38-5·46)	2·76 (-1·24-6·7)	0·48 (0·04-1·4)	3·6 (1·48-6·84)
Central/Eastern Europe and Central Asia	-5·02 (-23·26-14·47)	-12·81 (-22·48--3·11)	-0·15 (-4·76-4·21)	-1·9 (-6·43-1·8)	5·88 (-7·27-21·03)	-0·05 (-4·78-4·96)	10·57 (-5·82-29·21)
High-Income Countries	-10·66 (-12·76--8·57)	-8·38 (-10·06--6·75)	-1·5 (-3·38-0·36)	-0·57 (-2·84-1·63)	-1·8 (-10·86-6·77)	-1·06 (-2·98-0·83)	7·03 (3·45-11·49)
Latin America and the Caribbean	-3·79 (-8·72-0·96)	-2·62 (-6·59-1·47)	0·08 (-2·03-2·09)	-1·21 (-3·1-0·64)	6·69 (-4·04-17·72)	0·94 (-0·2-2·13)	2·44 (0·36-4·59)
Middle East and Northern Africa	-1·38 (-5·71-2·53)	-2·84 (-6·77--0·02)	-0·1 (-2·65-2·03)	-0·17 (-3·15-2·32)	6·87 (-1·08-16·09)	0·94 (-1·41-3·45)	3·93 (-4·74-13·32)
South Asia	1·48 (0·68-2·24)	-0·35 (-3·53-1·76)	3·29 (2·16-4·5)	0·85 (0·24-1·48)	5·98 (-1·54-13·69)	0·01 (-0·09-0·12)	0·59 (-0·65-1·85)
Sub-Saharan Africa	2·09 (0·64-3·56)	-1·25 (-5·31-1·92)	1·69 (-0·02-3·42)	0·47 (0·06-0·91)	2·41 (0·36-4·35)	0·11 (0·01-0·22)	0·65 (-0·03-1·41)
Afghanistan	0·05 (-0·15-0·29)	-0·03 (-0·68-0·49)	0·02 (-0·06-0·12)	0·06 (-0·21-0·36)	0·09 (-0·44-0·62)	0 (-0·07-0·09)	0·03 (-0·15-0·25)
Albania	-0·59 (-1·72-0·35)	-1·47 (-3·49-0·53)	0·05 (-0·28-0·35)	-0·65 (-3·08-1·47)	0·16 (-0·39-0·68)	-0·12 (-0·74-0·42)	0·32 (-0·51-1·21)
Algeria	-0·1 (-0·79-0·6)	-0·26 (-1·35-0·49)	-0·02 (-0·51-0·52)	-0·08 (-0·97-0·81)	0·23 (-0·62-1·44)	0·14 (-1·25-1·72)	0·09 (-0·5-0·71)
Angola	0·06 (-0·25-0·37)	-0·03 (-0·28-0·16)	0·12 (-0·6-0·83)	0·01 (-0·01-0·03)	0·04 (-0·14-0·22)	0·03 (-0·1-0·17)	0·03 (-0·1-0·18)
Antigua and Barbuda	-0·06 (-0·54-0·42)	-0·32 (-2·13-1·49)	0·04 (-0·69-0·77)	0·04 (-0·38-0·48)	0·13 (-0·36-0·65)	0·11 (-0·49-0·77)	0·07 (-0·13-0·33)
Argentina	-0·36 (-1·89-0·94)	-0·78 (-1·72--0·01)	0·01 (-0·18-0·19)	-0·26 (-1·13-0·55)	-0·04 (-0·82-0·62)	-0·11 (-1·17-0·88)	0·04 (-0·27-0·28)
Armenia	-0·05 (-1·25-1·1)	-1·03 (-3·16-0·85)	-0·06 (-1-0·79)	0·1 (-1·06-1·41)	0·08 (-0·29-0·47)	0·16 (-0·56-0·9)	0·35 (-0·77-1·69)
Australia	-1·63 (-2·58--0·78)	-1·17 (-1·92--0·6)	-0·09 (-0·5-0·33)	-0·08 (-0·79-0·66)	-0·36 (-1·47-0·58)	-0·12 (-2·44-2·2)	0·33 (-0·47-1·42)
Austria	-1·6 (-3·4-0·07)	-1·7 (-5·4-1·42)	-0·11 (-0·47-0·25)	-0·06 (-0·59-0·46)	0·15 (-0·38-0·69)	-0·07 (-1·67-1·41)	0·34 (-0·22-1·08)
Azerbaijan	-0·39 (-1·93-0·99)	-1·17 (-3·18--0·67)	0·17 (-0·21-0·56)	0·19 (-0·97-1·21)	0·06 (-0·41-0·47)	0·11 (-1·58-1·74)	0·12 (-0·08-0·33)
Bahrain	-0·12 (-0·91-0·7)	-0·63 (-2·82-1·13)	-0·01 (-0·75-0·72)	-0·08 (-1-0·9)	0·2 (-0·58-1·04)	0·12 (-1·28-1·71)	0·13 (-0·83-1·2)
Bangladesh	0 (-0·08-0·08)	-0·01 (-0·02-0·01)	0·12 (-0·24-0·47)	-0·11 (-0·31-0·09)	-0·04 (-0·14-0·06)	0 (-0·02-0·03)	0 (-0·02-0·02)
Barbados	0·04 (-1·21-1·36)	-0·19 (-0·86-0·4)	0·05 (-0·68-0·78)	0·09 (-1·31-1·56)	0·12 (-0·21-0·52)	0·1 (-0·39-0·66)	0·08 (-0·13-0·37)

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Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Belarus	-0·29 (-2·06-1·52)	-1·09 (-3·08-0·7)	0·01 (-0·38-0·41)	-0·14 (-1·1-0·78)	0·18 (-0·65-1·18)	0·11 (-1·21-1·51)	0·26 (-0·55-1·26)
Belgium	-0·48 (-1·38-0·4)	-0·91 (-1·91-0·07)	-0·03 (-0·34-0·29)	-0·1 (-0·49-0·26)	0·13 (-0·38-0·63)	-0·25 (-3·3-2·8)	0·1 (-0·07-0·35)
Belize	-0·21 (-1·87-1·51)	-0·36 (-2·9-2·01)	0·02 (-0·48-0·53)	0·08 (-0·73-0·9)	0·18 (-0·65-1·04)	0·1 (-0·59-0·86)	0·08 (-0·2-0·42)
Benin	0·17 (-0·08-0·42)	-0·35 (-2·66-1·57)	0·06 (-0·26-0·37)	0·08 (-0·19-0·38)	0·04 (-0·05-0·14)	0·03 (-0·04-0·11)	0·02 (-0·02-0·06)
Bhutan	0·12 (-0·22-0·52)	-0·03 (-0·43-0·21)	0·17 (-0·28-0·73)	0·1 (-0·28-0·53)	0·12 (-0·37-0·68)	0·01 (-0·08-0·11)	0·03 (-0·09-0·17)
Bolivia	-0·75 (-1·52--0·01)	-0·14 (-1·31-0·98)	0·04 (-0·14-0·21)	-0·01 (-0·47-0·43)	0·01 (-0·25-0·26)	-0·21 (-0·52-0·04)	0·07 (-0·14-0·32)
Bosnia and Herzegovina	-0·47 (-3·61-2·72)	-1·06 (-2·57-0·18)	0·01 (-0·16-0·17)	-0·09 (-0·66-0·44)	0·39 (-1·08-2·1)	0·11 (-1·36-1·62)	0·28 (-0·41-1·13)
Botswana	0·09 (-0·34-0·53)	-0·18 (-1·2-0·63)	0·06 (-0·31-0·47)	0·09 (-0·13-0·3)	0·1 (-0·31-0·54)	0·01 (-0·05-0·08)	0·05 (-0·19-0·31)
Brazil	-0·62 (-1·44-0·17)	-0·57 (-1·67-0·45)	-0·07 (-0·43-0·28)	-0·31 (-0·77-0·11)	0·16 (-0·6-0·92)	0·13 (-0·16-0·42)	0·05 (-0·01-0·14)
Brunei	0·13 (-1·23-1·54)	-0·01 (-1·99-1·91)	0·38 (-0·7-1·61)	0·06 (-0·77-0·98)	0·07 (-0·19-0·36)	0·05 (-0·03-0·22)	0·08 (-0·05-0·3)
Bulgaria	-0·79 (-1·88-0·2)	-1·42 (-2·89--0·08)	-0·05 (-0·45-0·36)	-0·08 (-0·58-0·41)	0·05 (-0·58-0·66)	0·13 (-2·04-2·32)	1·18 (-1·07-3·95)
Burkina Faso	0·01 (-0·04-0·06)	-0·12 (-1·33-0·81)	0·12 (-0·3-0·55)	0 (-0·09-0·1)	0·04 (-0·08-0·17)	0·01 (-0·01-0·03)	0 (-0·02-0·03)
Burundi	0·01 (-0·19-0·2)	-0·1 (-1·15-0·73)	0·1 (-0·37-0·6)	0·02 (-0·1-0·14)	0·04 (-0·07-0·16)	0·01 (-0·01-0·03)	0 (0-0·01)
Cambodia	0·35 (0·1-0·6)	0·01 (-1·26-1·35)	1·96 (1·22-2·72)	-0·12 (-0·42-0·14)	-0·01 (-0·11-0·07)	0·01 (0-0·02)	0 (0-0·01)
Cameroon	0·09 (-0·08-0·26)	-0·05 (-0·48-0·26)	0·11 (-0·61-0·83)	0·09 (-0·16-0·33)	0·08 (-0·08-0·25)	0·02 (-0·08-0·13)	0·01 (-0·01-0·05)
Canada	-0·67 (-1·08--0·27)	-1·14 (-1·66--0·66)	0·01 (-0·17-0·2)	-0·22 (-0·74-0·3)	0·09 (-0·6-0·79)	0·03 (-0·69-0·8)	0·18 (0·04-0·34)
Cape Verde	0·07 (-0·29-0·43)	-0·11 (-1·01-0·6)	0·08 (-0·42-0·6)	0·15 (-0·26-0·59)	0·08 (-0·26-0·43)	0·02 (-0·08-0·13)	0·03 (-0·12-0·22)
Central African Republic	0·16 (-1·07-1·35)	-0·09 (-0·99-0·6)	0·1 (-0·67-0·89)	0·05 (-0·08-0·19)	0·01 (-0·06-0·07)	0·02 (-0·08-0·14)	0·02 (-0·07-0·12)
Chad	0·11 (-0·28-0·53)	-0·07 (-0·83-0·52)	0·09 (-0·25-0·44)	0·03 (-0·09-0·16)	0·03 (-0·07-0·12)	0 (-0·02-0·03)	0·01 (-0·02-0·06)
Chile	-0·18 (-0·78-0·22)	-0·4 (-4·01-2·17)	0·01 (-0·35-0·29)	0·09 (-0·91-1·12)	0·3 (-0·72-1·48)	0·16 (-0·83-1·17)	0·18 (-0·18-0·53)
China	-0·15 (-1·54-1·29)	0·01 (-0·16-0·17)	0·04 (-0·46-0·55)	0·06 (-0·73-0·9)	0·04 (-0·14-0·2)	0·08 (-0·03-0·29)	0·05 (-0·01-0·17)
Colombia	0·8 (0·04-1·56)	0·11 (-1·91-2·34)	0·39 (-0·04-0·86)	0·62 (0·06-1·18)	0·15 (-0·01-0·31)	0·11 (-0·05-0·3)	0·11 (-0·06-0·27)

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Comoros	0·1 (-0·27-0·47)	-0·1 (-0·9-0·53)	0·26 (-0·52-1·06)	0·16 (-0·15-0·49)	0·13 (-0·11-0·38)	0·02 (-0·02-0·07)	0·06 (-0·05-0·22)
Congo	0·02 (-0·35-0·4)	-0·41 (-2·36-1·37)	0·28 (-0·69-1·29)	0 (-0·03-0·04)	0·07 (-0·12-0·27)	0·01 (-0·03-0·04)	0·04 (-0·15-0·21)
Costa Rica	-0·14 (-1·27-1)	-0·38 (-2·33-1·62)	0·06 (-1·04-1·22)	0·08 (-0·64-0·81)	0·2 (-0·54-0·96)	0·14 (-0·73-1·12)	0·07 (-0·17-0·34)
Cote d'Ivoire	0·07 (-0·15-0·3)	-0·09 (-0·89-0·5)	0·34 (-0·41-1·11)	0·07 (-0·11-0·26)	0·05 (-0·1-0·19)	0·01 (-0·02-0·03)	0·02 (-0·05-0·1)
Croatia	-0·02 (-1·1-0·75)	-1·69 (-6·33-0·99)	0·02 (-0·77-0·84)	-0·11 (-0·82-0·57)	0·28 (-0·94-1·8)	0·09 (-1·34-1·52)	0·33 (-0·47-1·31)
Cuba	-0·29 (-1·89-1·33)	-0·36 (-2·21-1·46)	0·01 (-0·14-0·17)	0·09 (-0·67-0·89)	0·2 (-0·46-0·88)	0·16 (-0·63-1·02)	0·07 (-0·12-0·3)
Cyprus	-0·79 (-2·54-0·78)	-0·34 (-1·03-0·18)	-0·06 (-0·5-0·41)	-0·04 (-0·39-0·31)	0·08 (-0·37-0·6)	-0·1 (-1·73-1·56)	0·24 (-0·19-0·84)
Czech Republic	-0·19 (-1·17-0·78)	-1·15 (-3·16-0·69)	0·01 (-0·39-0·43)	-0·09 (-0·74-0·53)	0·1 (-0·44-0·72)	0·07 (-1·21-1·37)	0·38 (-0·66-1·6)
Democratic Republic of the Congo	0·01 (-0·17-0·2)	-0·43 (-2·74-1·65)	-0·06 (-0·66-0·51)	0·01 (-0·03-0·04)	0·04 (-0·13-0·2)	0 (-0·02-0·02)	0·01 (-0·04-0·06)
Denmark	-0·64 (-1·61-0·27)	-0·94 (-2·86-0·91)	-0·06 (-0·74-0·6)	-0·04 (-0·42-0·34)	0·21 (-0·75-1·18)	-0·06 (-1·8-1·65)	0·34 (-0·35-1·21)
Djibouti	0·07 (-0·31-0·47)	-0·37 (-2·38-1·4)	0·1 (-0·6-0·8)	0·23 (-0·43-0·95)	0·06 (-0·21-0·34)	0·02 (-0·1-0·15)	0·03 (-0·11-0·17)
Dominica	-0·05 (-0·41-0·34)	-0·09 (-1·07-0·8)	0·01 (-0·25-0·28)	0·04 (-0·33-0·41)	0·18 (-0·48-0·84)	0·14 (-0·58-0·94)	0·08 (-0·16-0·35)
Dominican Republic	-0·05 (-0·59-0·43)	-0·32 (-2·25-1·52)	0 (-0·21-0·18)	0·17 (-0·23-0·55)	-0·06 (-0·4-0·26)	0·05 (-0·15-0·27)	0·01 (-0·04-0·06)
Ecuador	-0·06 (-1·25-1·14)	-0·04 (-0·26-0·19)	0·04 (-0·31-0·42)	-0·15 (-0·84-0·51)	0·09 (-0·29-0·49)	0·07 (-0·12-0·28)	0·08 (-0·09-0·3)
Egypt	0·05 (-0·16-0·26)	-0·2 (-0·97-0·32)	-0·01 (-0·16-0·13)	0·37 (0·06-0·67)	0·31 (0·16-0·46)	0·09 (-0·02-0·21)	0·02 (-0·06-0·09)
El Salvador	-0·1 (-0·95-0·77)	-0·41 (-2·64-1·82)	0·01 (-0·16-0·19)	0·04 (-0·47-0·58)	0·13 (-0·38-0·66)	0·16 (-0·67-1·08)	0·08 (-0·15-0·37)
Equatorial Guinea	0·08 (-0·36-0·55)	-0·07 (-0·66-0·43)	0·15 (-0·8-1·12)	0·03 (-0·05-0·12)	0·05 (-0·17-0·27)	0·02 (-0·09-0·15)	0·03 (-0·1-0·17)
Eritrea	0·08 (-0·31-0·47)	-0·09 (-0·8-0·46)	0·13 (-0·84-1·16)	0·07 (-0·11-0·26)	0·07 (-0·2-0·34)	0·02 (-0·06-0·11)	0·02 (-0·07-0·14)
Estonia	-0·75 (-1·72-0·15)	-3·6 (-6·17--0·87)	-0·06 (-0·5-0·36)	-0·07 (-1·11-0·93)	0·22 (-1·61-1·87)	0·86 (-1·23-3·2)	0·63 (-0·33-1·72)
Ethiopia	0·03 (-0·12-0·18)	-0·31 (-2·81-1·68)	-0·02 (-0·09-0·04)	0·07 (-0·1-0·23)	0 (-0·17-0·17)	0·05 (-0·03-0·14)	0·02 (-0·04-0·07)
Federated States of Micronesia	0·06 (-0·56-0·72)	0·03 (-1·81-1·8)	0·32 (-0·68-1·4)	0·07 (-0·76-0·91)	0·03 (-0·1-0·18)	0·09 (-0·07-0·4)	0·05 (-0·04-0·2)
Fiji	0·03 (-0·29-0·38)	0 (-0·9-0·95)	0·2 (-0·32-0·8)	0·07 (-0·93-1·11)	0·07 (-0·17-0·33)	0·07 (-0·04-0·29)	0·07 (-0·03-0·26)

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Finland	-1·04 (-1·94--0·23)	-2·67 (-4·6--0·88)	-0·05 (-0·76-0·62)	-0·09 (-0·84-0·65)	0·17 (-1·38-1·74)	-0·1 (-1·61-1·36)	0·34 (-0·13-0·9)
France	-1·64 (-2·14--1·17)	-2·08 (-2·81--1·4)	-0·43 (-0·77--0·1)	-0·44 (-0·7--0·2)	0·2 (-0·86-1·47)	-2·87 (-3·88--1·95)	0·18 (-0·22-0·55)
Gabon	0·35 (-0·16-0·87)	-0·13 (-1·12-0·67)	0·09 (-0·34-0·55)	0·14 (-0·22-0·52)	0·15 (-0·11-0·42)	0·02 (-0·01-0·07)	0·03 (-0·02-0·09)
Georgia	-0·09 (-0·48-0·26)	-1·4 (-3·47-0·71)	0·02 (-0·91-0·93)	-0·08 (-0·61-0·42)	0·1 (-0·47-0·72)	0·12 (-1·8-1·93)	0·21 (-0·39-0·92)
Germany	-0·8 (-1·19--0·42)	-2·18 (-3·32--1·12)	-0·11 (-0·28-0·05)	0·22 (-0·17-0·63)	0·05 (-0·83-0·89)	0·6 (0·08-1·17)	0·23 (0·01-0·47)
Ghana	0·11 (-0·08-0·29)	-0·06 (-0·34-0·12)	0·62 (-0·33-1·56)	0·16 (-0·12-0·44)	0·08 (-0·04-0·21)	0 (-0·03-0·02)	0 (-0·02-0·01)
Greece	-0·68 (-2·2-0·75)	-0·11 (-0·34-0·15)	-0·06 (-0·56-0·5)	-0·05 (-0·42-0·33)	0·14 (-0·55-0·85)	-0·08 (-1·62-1·54)	0·34 (-0·31-1·15)
Grenada	-0·05 (-0·39-0·29)	-0·09 (-0·81-0·58)	0·03 (-0·34-0·41)	0·06 (-0·57-0·73)	0·11 (-0·25-0·49)	0·08 (-0·32-0·51)	0·07 (-0·12-0·31)
Guatemala	-0·09 (-0·62-0·43)	-0·36 (-2·56-1·83)	-0·04 (-0·13-0·04)	0·12 (-0·4-0·61)	0·11 (-0·11-0·35)	0·13 (-0·65-1·01)	0·1 (0·02-0·2)
Guinea	0·07 (-0·17-0·32)	-0·27 (-2·19-1·25)	0·08 (-0·17-0·33)	0·04 (-0·09-0·19)	0·05 (-0·07-0·18)	0·01 (-0·02-0·04)	0·01 (-0·03-0·03)
Guinea-Bissau	0·06 (-0·31-0·44)	-0·08 (-0·79-0·47)	0·05 (-0·29-0·4)	0·04 (-0·06-0·17)	0·06 (-0·23-0·36)	0·02 (-0·08-0·13)	0·02 (-0·07-0·12)
Guyana	-0·26 (-0·94-0·37)	-0·46 (-2·66-1·75)	0·07 (-0·55-0·68)	0·44 (-0·19-1·09)	0·28 (-0·35-0·87)	0·16 (-0·12-0·46)	0·06 (-0·13-0·3)
Haiti	0·04 (-0·18-0·25)	-0·15 (-1·59-1·19)	-0·09 (-0·36-0·15)	-0·06 (-0·2-0·06)	0·13 (-0·12-0·38)	0·03 (-0·03-0·1)	0·01 (-0·01-0·02)
Honduras	-0·27 (-0·63-0·06)	-0·43 (-2·53-1·76)	0·01 (-0·15-0·17)	0·3 (-0·2-0·76)	-0·05 (-0·37-0·22)	0·2 (-0·02-0·46)	0·01 (-0·01-0·03)
Hungary	0·03 (-0·35-0·44)	-0·23 (-0·88-0·38)	-0·02 (-0·27-0·26)	-0·09 (-0·75-0·51)	0·04 (-0·27-0·37)	0·11 (-1·19-1·4)	0·32 (-0·5-1·3)
Iceland	-0·59 (-1·39-0·18)	-0·7 (-1·5-0·04)	-0·11 (-0·68-0·49)	-0·06 (-0·61-0·47)	0·33 (-1·22-1·87)	-0·14 (-2·11-1·93)	0·34 (-0·44-1·24)
India	0·12 (0·08-0·15)	-0·04 (-0·56-0·32)	0·29 (0·19-0·39)	0·14 (0·06-0·21)	0·23 (-0·05-0·51)	0 (-0·02-0·02)	0·02 (-0·03-0·06)
Indonesia	0·14 (-0·09-0·38)	0·01 (-1·73-1·67)	0·51 (-0·07-1·1)	0·35 (-0·17-0·9)	0·1 (-0·03-0·24)	0·03 (-0·01-0·08)	0·02 (0·01-0·03)
Iran	-0·06 (-0·24-0·13)	-0·04 (-0·17-0·08)	-0·02 (-0·11-0·07)	-0·05 (-0·26-0·18)	0·07 (-0·08-0·23)	0·23 (0·05-0·44)	0·2 (-0·06-0·48)
Iraq	-0·13 (-1·14-0·87)	-0·84 (-3·06-1·08)	-0·01 (-0·51-0·51)	-0·31 (-2·04-1·29)	0·12 (-0·4-0·68)	0·14 (-1·31-1·7)	0·09 (-0·57-0·8)
Ireland	-0·51 (-1·42-0·31)	-1·12 (-3·33-0·62)	-0·05 (-0·31-0·21)	-0·05 (-0·41-0·32)	0·41 (-1·54-2·45)	-0·12 (-1·91-1·66)	0·3 (-0·23-1)
Israel	-1·05 (-2·84-0·7)	-0·76 (-2·97-1·65)	-0·15 (-1·9-1·5)	-0·53 (-1·91-0·83)	0·22 (-0·75-1·22)	0·79 (-1·33-2·92)	0·1 (-0·84-1)

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Italy	-0·62 (-1·19--0·05)	-0·74 (-1·15--0·34)	-0·37 (-1·08-0·32)	-0·21 (-0·5-0·07)	0·22 (-0·18-0·67)	-0·38 (-0·8-0·04)	0·13 (0·05-0·22)
Jamaica	-0·05 (-0·28-0·18)	0·1 (-0·54-0·78)	-0·05 (-0·8-0·72)	0·06 (-0·49-0·65)	0·26 (-0·39-1·02)	0·12 (-0·48-0·79)	0·07 (-0·11-0·28)
Japan	0·35 (0·12-0·58)	0·45 (0·1-0·86)	0·16 (0·03-0·3)	0·63 (0·42-0·83)	0·53 (0·41-0·65)	0·21 (0·13-0·31)	0·98 (0·43-1·76)
Jordan	0·17 (-0·37-0·72)	-0·9 (-3·22-1·2)	0·33 (-0·27-0·88)	0·62 (0·12-1·09)	-0·01 (-0·42-0·41)	0·11 (-1·09-1·32)	0·06 (-0·1-0·22)
Kazakhstan	0·23 (-1·39-1·91)	-1·2 (-3·09-0·49)	0·14 (-0·44-0·77)	-0·13 (-0·94-0·62)	0·17 (-0·23-0·57)	0·12 (-1·76-1·97)	0·17 (-0·22-0·62)
Kenya	0·13 (-0·09-0·36)	-0·02 (-0·1-0·02)	0·05 (-0·1-0·21)	0·02 (-0·08-0·12)	0·23 (-0·08-0·58)	0·01 (-0·04-0·05)	0·01 (-0·01-0·05)
Kiribati	0·07 (-0·53-0·66)	0·02 (-1·7-1·67)	0·34 (-0·56-1·27)	0·06 (-0·7-0·87)	0·04 (-0·1-0·19)	0·1 (-0·06-0·4)	0·06 (-0·03-0·21)
Kuwait	0·08 (-0·37-0·54)	-0·83 (-3·57-1·52)	0·08 (-0·99-1·16)	-0·09 (-1·55-1·25)	0·34 (-1·09-1·74)	0·16 (-1·7-2·09)	0·13 (-0·99-1·33)
Kyrgyzstan	0·3 (-0·21-0·85)	-0·75 (-2·48-0·58)	0·01 (-0·03-0·04)	0·01 (-0·42-0·48)	0·07 (-0·2-0·34)	0·07 (-0·18-0·34)	0·13 (-0·12-0·42)
Laos	-0·11 (-0·75-0·51)	-0·1 (-1·05-0·75)	0·01 (-0·93-0·9)	-0·07 (-0·68-0·53)	0·07 (-0·15-0·29)	0·08 (-0·07-0·36)	0·06 (-0·01-0·15)
Latvia	-1·04 (-4·04-1·74)	-2·18 (-5·98-1·23)	-0·03 (-0·66-0·62)	-0·13 (-0·88-0·61)	0·28 (-0·48-1·13)	0·13 (-1·61-1·84)	0·35 (-0·57-1·41)
Lebanon	-0·61 (-0·91--0·31)	-0·97 (-1·47--0·54)	-0·24 (-0·43--0·08)	-1·09 (-1·62--0·66)	-0·08 (-0·53-0·33)	-1·04 (-1·89--0·29)	-0·21 (-0·81-0·26)
Lesotho	0·23 (-0·12-0·61)	-0·08 (-0·68-0·41)	0·07 (-0·07-0·22)	0·18 (-0·06-0·43)	0·09 (-0·14-0·34)	0·01 (-0·03-0·04)	0·02 (-0·04-0·09)
Liberia	-0·12 (-0·51-0·24)	-0·57 (-3-1·68)	-0·19 (-0·97-0·46)	0·06 (-0·18-0·29)	-0·04 (-0·23-0·11)	0·02 (-0·08-0·13)	0·01 (-0·03-0·05)
Libya	-0·09 (-0·76-0·59)	-0·42 (-1·94-0·77)	0 (-0·6-0·56)	-0·07 (-0·85-0·66)	0·2 (-0·48-0·92)	0·12 (-1·06-1·32)	0·12 (-0·71-1)
Lithuania	-0·79 (-3·55-1·94)	-1·23 (-3·12-0·61)	-0·03 (-0·58-0·5)	-0·19 (-1·37-0·91)	0·03 (-0·45-1·25)	0·12 (-1·49-1·62)	0·39 (-0·64-1·57)
Luxembourg	-1·15 (-3·8-1·07)	-1·9 (-6·3-1·41)	-0·07 (-0·7-0·54)	-0·1 (-0·95-0·78)	0·11 (-0·68-0·99)	-0·12 (-2·19-1·98)	0·31 (-0·32-1·14)
Macedonia	-0·16 (-0·95-0·6)	-1·39 (-3·4-0·56)	0·02 (-0·4-0·43)	-0·06 (-0·44-0·28)	0·24 (-0·58-1·08)	0·1 (-1·33-1·65)	0·3 (-0·48-1·2)
Madagascar	-0·25 (-0·56-0·05)	-0·1 (-0·97-0·61)	-0·18 (-0·75-0·32)	0·05 (-0·06-0·15)	0·04 (-0·09-0·17)	0·02 (-0·07-0·13)	0 (-0·03-0·03)
Malawi	0·09 (-0·09-0·27)	-0·1 (-1·27-0·75)	0·25 (-0·19-0·7)	0·04 (-0·07-0·16)	0·03 (-0·07-0·13)	0 (-0·01-0·02)	0·01 (-0·01-0·03)
Malaysia	-0·08 (-0·39-0·22)	0·21 (-0·49-1·01)	0·44 (-0·95-1·81)	-0·12 (-0·84-0·55)	0·07 (-0·09-0·23)	0·11 (-0·06-0·44)	0·07 (-0·03-0·23)
The Maldives	0·22 (-0·3-0·69)	-0·23 (-1·89-1·05)	0·26 (-0·32-0·79)	0·34 (-0·14-0·81)	0 (-0·78-0·71)	0·03 (-0·25-0·39)	-0·01 (-0·18-0·12)

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Mali	0·26 (-0·02-0·53)	-0·17 (-1·75-1·25)	0·24 (-0·41-0·88)	0·08 (-0·04-0·19)	0·36 (0·08-0·69)	0·02 (0-0·06)	0·02 (-0·01-0·07)
Malta	-0·65 (-2·1-0·65)	-1·22 (-3·67-0·73)	-0·05 (-0·84-0·75)	-0·11 (-0·68-0·35)	0·29 (-0·94-1·53)	-0·12 (-1·48-0·85)	0·3 (-0·32-1·12)
Marshall Islands	0·06 (-0·53-0·67)	0·01 (-1·06-1·14)	0·28 (-0·5-1·12)	0·05 (-0·54-0·68)	0·11 (-0·28-0·51)	0·11 (-0·09-0·45)	0·06 (-0·04-0·24)
Mauritania	0·06 (-0·26-0·39)	-0·57 (-3·06-1·8)	0·09 (-0·53-0·75)	0·09 (-0·13-0·33)	0·08 (-0·27-0·44)	0·02 (-0·07-0·11)	0·03 (-0·11-0·19)
Mauritius	0·22 (-0·74-1·5)	-1·15 (-3·43-0·65)	0·09 (-0·69-0·84)	0·15 (-0·2-0·55)	0·09 (-0·2-0·4)	0·01 (-0·05-0·08)	0·06 (-0·16-0·31)
Mexico	-0·47 (-0·84--0·08)	-0·13 (-0·5-0·23)	-0·04 (-0·12-0·04)	-0·61 (-1·2--0·05)	0·44 (-0·23-1·11)	0·35 (0·04-0·66)	0·08 (-0·01-0·18)
Moldova	-0·49 (-2·78-1·8)	-1·43 (-3·65-0·69)	0·02 (-0·45-0·5)	-0·09 (-0·84-0·58)	0·1 (-0·46-0·78)	0·11 (-1·53-1·87)	0·3 (-0·5-1·2)
Mongolia	-0·28 (-1·56-0·98)	-0·46 (-2·25-0·54)	0·01 (-0·29-0·3)	-0·4 (-2·12-1·18)	0·19 (-0·58-1·01)	0·14 (-1·86-2·17)	0·24 (-0·49-1·13)
Montenegro	-0·32 (-3·61-2·71)	-2·19 (-6·2-1·16)	0·01 (-1·05-1·17)	-0·11 (-0·86-0·57)	0·47 (-1·45-2·6)	0·14 (-1·45-1·74)	0·34 (-0·54-1·49)
Morocco	-0·16 (-0·92-0·42)	-0·6 (-2·46-0·9)	-0·05 (-0·88-0·6)	-0·09 (-1·57-1·08)	0·23 (-0·54-1·1)	0·03 (-0·41-0·36)	0·1 (-0·42-0·61)
Mozambique	0·09 (-0·21-0·4)	-0·08 (-0·89-0·59)	0 (-0·54-0·52)	0·12 (-0·23-0·47)	0·01 (-0·11-0·14)	0 (-0·04-0·03)	0·01 (-0·02-0·03)
Myanmar	0·13 (-1·52-1·78)	0 (-2·05-2·07)	0·55 (-1·28-2·39)	0·08 (-1·07-1·24)	0·13 (-0·34-0·6)	0·06 (-0·05-0·27)	0·06 (-0·04-0·22)
Namibia	-0·14 (-0·42-0·12)	-0·13 (-1·01-0·53)	-0·08 (-0·39-0·19)	0·09 (-0·16-0·34)	0·03 (-0·25-0·31)	0·07 (-0·12-0·29)	0·02 (-0·04-0·07)
Nepal	0·08 (-0·09-0·24)	-0·01 (-0·21-0·13)	0·05 (-0·1-0·18)	0·04 (-0·11-0·2)	0·08 (-0·12-0·26)	0 (-0·02-0·03)	0·03 (-0·01-0·07)
Netherlands	-0·39 (-0·74--0·05)	-0·6 (-1·01--0·22)	-0·08 (-0·21-0·05)	-0·03 (-0·25-0·19)	0·18 (-0·53-0·87)	-0·08 (-0·79-0·59)	0·72 (-0·16-1·56)
New Zealand	0·27 (-0·53-1·12)	0·1 (-1·05-1·38)	-0·04 (-0·59-0·48)	-0·05 (-0·5-0·41)	0·47 (-0·51-1·49)	-0·12 (-2·3-2·1)	0·3 (-0·36-1·13)
Nicaragua	-0·07 (-0·7-0·59)	-0·36 (-2·56-1·71)	0·02 (-0·27-0·32)	0·06 (-0·55-0·71)	0·15 (-0·41-0·71)	0·08 (-0·44-0·63)	0·07 (-0·14-0·31)
Niger	0·01 (-0·05-0·08)	-0·06 (-1·06-0·77)	0·02 (-0·07-0·12)	0·03 (-0·05-0·11)	0·05 (-0·18-0·3)	0·01 (-0·03-0·04)	0·04 (-0·03-0·12)
Nigeria	0·25 (0·06-0·43)	-0·1 (-1·01-0·58)	0·31 (0·02-0·6)	0·08 (0-0·17)	0·11 (0-0·24)	0·03 (-0·01-0·07)	0·02 (-0·01-0·06)
Norway	-0·68 (-1·95-0·61)	-0·93 (-2·69-0·57)	0·01 (-0·97-0·94)	-0·06 (-0·56-0·43)	0·21 (-0·72-1·16)	-0·12 (-2·09-1·84)	0·3 (-0·33-1·17)
Oman	-0·11 (-0·97-0·76)	-0·74 (-3·1-1·34)	-0·01 (-0·72-0·7)	-0·09 (-1·21-0·97)	0·21 (-0·61-1·06)	0·12 (-1·24-1·6)	0·11 (-0·84-1·1)
Pakistan	0·14 (-0·21-0·48)	-0·1 (-1·16-0·69)	0·02 (-0·05-0·1)	0·13 (-0·22-0·49)	0 (-0·31-0·31)	0 (-0·03-0·04)	0·02 (-0·02-0·07)

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Palestine	-0·1 (-0·9-0·72)	-0·54 (-2·32-0·86)	-0·01 (-0·63-0·61)	-0·08 (-0·95-0·74)	0·21 (-0·61-1·11)	0·13 (-1·07-1·39)	0·11 (-0·72-1·02)
Panama	-0·14 (-1·19-0·91)	-0·42 (-2·27-1·48)	0·02 (-0·35-0·39)	0·03 (-0·26-0·35)	0·16 (-0·4-0·75)	0·13 (-0·51-0·82)	0·09 (-0·17-0·38)
Papua New Guinea	0·04 (-1·97-2·05)	0·01 (-0·99-1)	0 (0-0)	0·01 (-0·08-0·1)	0·01 (-0·05-0·07)	0·09 (-0·1-0·45)	0·05 (-0·05-0·18)
Paraguay	-0·26 (-1·75-1·2)	-0·28 (-1·89-1·28)	0·02 (-0·16-0·19)	0·07 (-0·55-0·73)	0·11 (-0·27-0·51)	0·27 (-0·98-1·59)	0·05 (-0·08-0·24)
Peru	0·8 (0·2-1·39)	-0·3 (-2·03-1·4)	0·04 (-0·63-0·71)	0·48 (0·14-0·83)	0·16 (-0·03-0·36)	0·28 (-1·04-1·64)	0·04 (0-0·08)
The Philippines	0·07 (-0·19-0·3)	0·42 (-0·83-1·61)	0·12 (-0·1-0·33)	-0·16 (-0·56-0·24)	-0·14 (-0·48-0·18)	0·04 (0·01-0·06)	0·02 (-0·02-0·05)
Poland	-1·79 (-2·34--1·25)	-3·84 (-4·88--2·87)	-0·29 (-0·51--0·08)	-1·51 (-2·02--1·06)	-0·15 (-0·65-0·33)	-1·29 (-2·28--0·33)	0·12 (-0·11-0·34)
Portugal	-1·38 (-2·07--0·73)	-0·47 (-0·82--0·11)	0 (-0·56-0·58)	0·04 (-0·31-0·41)	0·17 (-0·54-0·86)	-0·08 (-0·52-0·35)	0·44 (0·11-0·78)
Qatar	-0·1 (-0·98-0·8)	-0·66 (-3·15-1·49)	0 (-0·95-0·87)	-0·07 (-1·13-1·02)	0·17 (-0·69-1·06)	0·14 (-1·56-1·97)	0·12 (-1-1·45)
Romania	-0·04 (-1·09-1·04)	-1·75 (-3·54--0·09)	-0·02 (-0·67-0·62)	-0·22 (-1·55-1·23)	0·2 (-0·52-0·96)	0·48 (-1·98-2·88)	0·24 (-0·18-0·72)
Russia	-0·38 (-3·84-3·2)	-1·97 (-5·11-1·03)	0 (-0·69-0·67)	-0·15 (-1·18-0·79)	0·26 (-0·69-1·28)	0·11 (-1·55-1·86)	0·35 (-0·72-1·54)
Rwanda	0·03 (-0·05-0·11)	-0·03 (-0·38-0·25)	0·07 (-0·24-0·39)	0·02 (-0·04-0·08)	0·05 (-0·06-0·15)	0 (-0·02-0·02)	0 (-0·01-0·02)
Saint Lucia	-0·08 (-0·7-0·53)	-0·09 (-0·85-0·57)	0·02 (-0·29-0·34)	0·03 (-0·24-0·3)	0·11 (-0·28-0·55)	0·07 (-0·32-0·51)	0·07 (-0·13-0·32)
Saint Vincent and the Grenadines	-0·11 (-0·91-0·73)	-0·18 (-1·4-0·91)	0·04 (-0·42-0·48)	0·03 (-0·26-0·38)	0·18 (-0·4-0·8)	0·13 (-0·45-0·77)	0·07 (-0·12-0·31)
Samoa	0·05 (-0·47-0·62)	0·01 (-1·7-1·67)	0·24 (-0·52-1·07)	0·01 (-0·13-0·15)	0·2 (-0·6-1·02)	0·13 (-0·11-0·56)	0·06 (-0·05-0·25)
Sao Tome and Principe	-0·08 (-0·25-0·06)	-0·32 (-2·41-1·49)	-0·23 (-1·18-0·67)	0·01 (-0·12-0·13)	-0·11 (-0·63-0·31)	0·02 (-0·1-0·14)	0·09 (-0·07-0·3)
Saudi Arabia	-0·09 (-0·74-0·57)	-1·07 (-3·41-1·22)	-0·01 (-0·81-0·84)	-0·12 (-1·21-1·03)	0·13 (-0·34-0·65)	0·13 (-1·15-1·5)	0·13 (-0·74-1)
Senegal	0·05 (-0·05-0·15)	-0·32 (-2·43-1·52)	0·2 (-0·21-0·64)	0·02 (-0·04-0·09)	0·04 (-0·02-0·11)	0·01 (-0·01-0·04)	0·03 (-0·04-0·1)
Serbia	0·03 (-1·69-1·72)	-1·14 (-3·56-0·64)	0·04 (-0·28-0·37)	-0·2 (-1·41-0·7)	0·25 (-0·48-1·07)	0·03 (-1·52-1·24)	0·29 (-0·42-1·13)
Seychelles	-0·17 (-0·43-0·08)	-0·15 (-0·65-0·31)	1·02 (-0·69-2·74)	0·08 (-0·11-0·3)	0·03 (-0·2-0·27)	0·07 (0-0·15)	0·03 (-0·08-0·17)
Sierra Leone	0·09 (-0·04-0·23)	-0·75 (-3·75-2·18)	0·49 (-0·02-1)	0·06 (-0·09-0·21)	-0·03 (-0·18-0·11)	0 (-0·02-0·03)	0·01 (-0·01-0·04)
Singapore	-0·08 (-0·83-0·61)	-0·26 (-0·92-0·31)	0·26 (-0·39-0·93)	0·05 (-0·89-1·07)	0·14 (-0·1-0·4)	0·05 (-0·05-0·21)	0·08 (-0·05-0·3)

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Slovakia	-0·23 (-0·86-0·42)	-2·73 (-5·46--0·37)	-0·02 (-0·18-0·14)	-0·15 (-0·53-0·19)	0·05 (-0·46-0·52)	0·04 (-0·67-0·76)	0·16 (-0·16-0·53)
Slovenia	-0·14 (-1·39-1·16)	-1·26 (-3·61-0·77)	-0·03 (-0·73-0·67)	-0·17 (-1·16-0·79)	0·23 (-0·7-1·24)	0·09 (-1·27-1·44)	0·38 (-0·6-1·52)
Solomon Islands	0·09 (-0·73-0·97)	0·01 (-1·79-1·87)	0·16 (-0·34-0·73)	0·02 (-0·29-0·35)	0·13 (-0·36-0·66)	0·09 (-0·08-0·41)	0·05 (-0·03-0·2)
South Africa	1·24 (-0·16-2·65)	-0·04 (-0·89-0·77)	-0·01 (-0·09-0·07)	0·18 (-0·26-0·68)	0·12 (-0·29-0·51)	0·01 (-0·05-0·09)	0·05 (-0·15-0·28)
South Korea	-0·22 (-0·36--0·08)	-0·01 (-0·02-0·01)	0·05 (-0·03-0·12)	0·11 (-0·02-0·23)	0·55 (0·34-0·77)	0·18 (0·1-0·27)	0·15 (0·09-0·21)
South Sudan	0·06 (-0·3-0·46)	-0·09 (-0·88-0·58)	0·14 (-0·83-1·1)	0·06 (-0·1-0·23)	0·05 (-0·19-0·31)	0·02 (-0·08-0·12)	0·02 (-0·06-0·11)
Spain	-0·69 (-2·11-0·52)	-1·03 (-3-0·73)	-0·05 (-1·28-1·22)	-0·06 (-0·49-0·37)	0·26 (-0·96-1·68)	-0·13 (-1·95-1·73)	0·26 (-0·19-0·88)
Sri Lanka	-0·26 (-0·94-0·36)	-0·16 (-0·53-0·18)	0·16 (-0·32-0·63)	0·03 (-0·45-0·43)	0·24 (-0·45-0·91)	0·01 (-0·08-0·12)	0·04 (-0·09-0·14)
Sudan	0·05 (-0·23-0·35)	-0·12 (-1·32-0·8)	0·14 (-0·77-1·13)	0·06 (-0·1-0·24)	0·12 (-0·29-0·52)	0·02 (-0·07-0·11)	0·02 (-0·07-0·12)
Suriname	-0·13 (-1·23-0·99)	-0·36 (-2·25-1·48)	0·02 (-0·36-0·41)	0·04 (-0·39-0·49)	0·12 (-0·33-0·61)	0·16 (-0·67-1·03)	0·07 (-0·14-0·32)
Swaziland	-0·11 (-0·44-0·17)	-0·05 (-0·46-0·27)	0 (-0·03-0·03)	0·02 (-0·05-0·11)	-0·07 (-0·31-0·13)	0·01 (-0·02-0·04)	0·01 (-0·07-0·09)
Sweden	-1·13 (-1·8--0·48)	-1·03 (-1·76--0·34)	-0·01 (-0·46-0·43)	0·07 (-0·46-0·6)	0·23 (-0·84-1·24)	0·31 (-0·43-1·05)	0·43 (-0·17-0·98)
Switzerland	-0·63 (-1·58-0·22)	-0·69 (-1·5-0·07)	-0·04 (-0·71-0·59)	-0·01 (-0·51-0·51)	0·11 (-0·41-0·67)	-0·24 (-1·27-0·81)	0·37 (-0·08-0·87)
Syria	-0·1 (-0·8-0·55)	-0·43 (-1·9-0·72)	-0·02 (-0·61-0·58)	-0·09 (-0·88-0·69)	0·19 (-0·5-0·89)	0·12 (-0·99-1·34)	0·12 (-0·58-0·93)
Taiwan	-0·56 (-1·6-0·42)	0·14 (-0·48-0·79)	0·09 (-0·32-0·5)	0·05 (-0·71-0·85)	0·04 (-0·18-0·28)	0·08 (-0·05-0·3)	0·08 (-0·04-0·27)
Tajikistan	-0·02 (-0·85-0·8)	-1·34 (-3·92-1·16)	0·01 (-0·11-0·13)	0·06 (-0·52-0·62)	0·07 (-0·28-0·42)	0·01 (-0·15-0·19)	0·14 (-0·23-0·53)
Tanzania	0·28 (-0·05-0·59)	-0·06 (-0·58-0·35)	0·16 (-0·23-0·56)	0·04 (-0·06-0·14)	0·05 (-0·11-0·22)	0·01 (-0·01-0·05)	0·01 (-0·02-0·04)
Thailand	0·05 (-0·8-1·04)	0·02 (-0·73-0·85)	0·25 (-0·4-0·99)	0·06 (-0·64-0·79)	0·11 (-0·24-0·57)	0·08 (-0·04-0·31)	0·04 (-0·01-0·14)
The Bahamas	-0·11 (-0·95-0·73)	-0·21 (-1·75-1·2)	0·02 (-0·33-0·4)	0·09 (-1·13-1·39)	0·18 (-0·59-1·01)	0·15 (-0·7-1·1)	0·09 (-0·22-0·48)
The Gambia	0·03 (-0·1-0·16)	-0·55 (-3·14-2·01)	0·13 (-0·38-0·68)	0·1 (-0·13-0·33)	0·01 (-0·06-0·08)	0·01 (-0·03-0·05)	0 (-0·01-0·02)
Timor-Leste	0·17 (-0·09-0·43)	0·01 (-1·8-1·91)	0·19 (-0·17-0·54)	-0·07 (-0·37-0·2)	-0·11 (-0·37-0·09)	0·09 (-0·08-0·4)	0·02 (0·01-0·04)
Togo	0·05 (-0·18-0·27)	-0·34 (-2·17-1·15)	0·13 (-0·6-0·91)	0·05 (-0·13-0·23)	0·01 (-0·05-0·06)	0·01 (-0·02-0·05)	0·01 (-0·02-0·04)

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Tonga	0·06 (-0·67-0·86)	0·02 (-1·57-1·59)	0·27 (-0·7-1·36)	0·04 (-0·72-0·83)	0·1 (-0·42-0·65)	0·11 (-0·13-0·51)	0·06 (-0·06-0·24)
Trinidad and Tobago	-0·15 (-1·19-0·93)	-0·33 (-2·26-1·7)	0·04 (-0·28-0·37)	0·03 (-0·32-0·4)	0·15 (-0·44-0·79)	0·09 (-0·21-0·44)	0·08 (-0·16-0·39)
Tunisia	0·03 (-0·87-0·91)	-0·03 (-0·09-0·02)	-0·01 (-0·72-0·71)	-0·33 (-1·55-0·74)	0·31 (-0·69-1·55)	0·04 (-0·09-0·17)	0·09 (-0·45-0·73)
Turkey	-0·25 (-1·35-0·8)	-0·19 (-0·5-0·02)	-0·01 (-0·14-0·12)	-0·11 (-0·83-0·56)	0·21 (-0·7-1·3)	0·32 (-1·22-2·02)	0·19 (-0·75-1·27)
Turkmenistan	-0·25 (-1·58-1·07)	-1·4 (-3·56-0·83)	0·01 (-0·2-0·21)	-0·07 (-0·6-0·43)	0·14 (-0·45-0·76)	0·15 (-1·79-2·12)	0·21 (-0·47-1·1)
Uganda	-0·08 (-0·22-0·06)	-0·08 (-0·89-0·54)	-0·11 (-0·26-0·02)	0·01 (-0·09-0·1)	-0·09 (-0·32-0·12)	0 (-0·02-0·02)	0 (-0·01-0·02)
Ukraine	-0·2 (-1·24-0·73)	-1·34 (-3·5-0·79)	0·02 (-0·53-0·61)	-0·11 (-0·92-0·67)	0·23 (-0·37-0·86)	0·11 (-1·49-1·78)	0·33 (-0·6-1·38)
United Arab Emirates	-0·07 (-0·7-0·56)	-0·81 (-3·51-1·56)	-0·02 (-0·91-0·88)	-0·07 (-1·04-0·83)	0·2 (-0·61-1·11)	0·15 (-1·44-1·93)	0·12 (-0·82-1·22)
United Kingdom	-0·36 (-0·86-0·15)	-1·02 (-2·04--0·07)	-0·02 (-0·49-0·46)	-0·04 (-0·53-0·44)	0·32 (-0·59-1·23)	-0·12 (-2·12-1·92)	0·28 (-0·29-1·01)
United States	-0·59 (-0·7--0·48)	-0·96 (-1·13--0·79)	-0·05 (-0·1-0)	-0·05 (-0·62-0·52)	-0·38 (-0·72--0·06)	0·12 (-0·13-0·38)	0·11 (0·07-0·16)
Uruguay	-0·16 (-1·4-1·09)	-0·41 (-2·81-1·85)	0·03 (-0·39-0·46)	0·09 (-0·72-0·92)	0·21 (-0·67-1·15)	0·14 (-0·67-1·13)	0·1 (-0·23-0·48)
Uzbekistan	0·46 (-1·18-2·21)	-1·22 (-3·35-0·76)	0·04 (-0·78-0·87)	-0·13 (-1·04-0·77)	0·15 (-0·3-0·62)	0·14 (-1·73-2·02)	0·24 (-0·19-0·8)
Vanuatu	0·08 (-0·74-0·94)	0·02 (-0·88-0·87)	0·23 (-0·43-0·97)	0·05 (-0·57-0·7)	0·08 (-0·25-0·43)	0·09 (-0·08-0·4)	0·05 (-0·04-0·2)
Venezuela	-0·08 (-0·87-0·76)	-0·31 (-2·43-1·88)	0·01 (-0·19-0·22)	0·04 (-0·38-0·49)	0·23 (-0·67-1·17)	0·17 (-0·77-1·22)	0·09 (-0·19-0·43)
Vietnam	0·23 (-0·83-1·5)	0·01 (-0·84-0·84)	0·45 (-0·64-1·65)	0·08 (-1-1·17)	0·04 (-0·17-0·25)	0·08 (-0·05-0·32)	0·04 (-0·02-0·17)
Yemen	0·06 (-0·24-0·38)	-0·46 (-2·52-1·16)	0·03 (-0·12-0·2)	0 (-0·19-0·19)	0·18 (-0·28-0·65)	0·09 (-0·13-0·34)	0·04 (-0·06-0·16)
Zambia	-0·32 (-0·79-0·13)	-0·2 (-1·51-0·89)	0·12 (-0·36-0·57)	-0·04 (-0·25-0·15)	0·01 (-0·11-0·12)	0 (-0·02-0·03)	0 (-0·03-0·02)
Zimbabwe	-0·41 (-0·73--0·13)	-0·13 (-1·03-0·58)	0·02 (-0·22-0·23)	-0·14 (-0·38-0·09)	0 (-0·22-0·21)	0·01 (-0·02-0·03)	0·07 (-0·01-0·17)

Table S15. Absolute change in ASF intake (servings/week) in high versus low education from 185 countries in 2018.

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
World	0·42 (0·35-0·49)	0·21 (0·08-0·35)	0·28 (0·23-0·33)	0·47 (0·36-0·6)	0·79 (0·71-0·87)	0·28 (0·23-0·34)	0·22 (0·18-0·27)
Southeast and East Asia	0·39 (0·23-0·55)	0·41 (0·24-0·61)	0·19 (0·09-0·28)	0·64 (0·34-1·04)	0·45 (0·39-0·53)	0·06 (0·01-0·16)	0·11 (0·07-0·19)
Central/Eastern Europe and Central Asia	0·04 (-0·58-0·64)	-1·05 (-1·89--0·33)	0·29 (-0·01-0·55)	0·2 (-0·26-0·65)	0·23 (-0·18-0·61)	1·09 (0·49-1·79)	0·69 (0·3-1·24)
High-Income Countries	-0·19 (-0·29--0·09)	0·22 (0·09-0·36)	0·09 (0·02-0·16)	-0·04 (-0·27-0·16)	0·05 (-0·21-0·3)	0·67 (0·49-0·86)	0·23 (0·16-0·32)
Latin America and the Caribbean	1 (0·81-1·19)	0·71 (0·13-1·32)	0·23 (0·12-0·36)	0·34 (0·19-0·5)	1·52 (1·29-1·77)	0·91 (0·72-1·12)	0·2 (0·15-0·27)
Middle East and Northern Africa	0·46 (0·28-0·67)	0·31 (-0·01-0·7)	0·13 (0-0·27)	0·29 (0·05-0·53)	0·66 (0·42-0·96)	0·31 (0·1-0·56)	0·21 (0·05-0·39)
South Asia	0·2 (0·15-0·26)	0·03 (-0·2-0·43)	0·18 (0·12-0·26)	0·37 (0·29-0·45)	1·21 (1·02-1·41)	0·03 (0·01-0·05)	0·21 (0·15-0·28)
Sub-Saharan Africa	1·08 (0·95-1·22)	0·16 (-0·28-0·7)	0·86 (0·69-1·05)	0·93 (0·79-1·1)	1·19 (1·06-1·33)	0·17 (0·12-0·24)	0·29 (0·21-0·41)
Afghanistan	0·32 (0·12-0·65)	0·03 (-0·41-0·63)	0·07 (0·01-0·19)	0·77 (0·43-1·29)	1·66 (0·95-2·66)	0·04 (-0·02-0·17)	0·49 (0·2-1·14)
Albania	0·02 (-0·25-0·3)	-0·62 (-1·63-0·37)	0·13 (0-0·26)	0·35 (-0·33-1·05)	0·13 (-0·1-0·36)	0·44 (0·24-0·7)	0·52 (0·09-1·15)
Algeria	0·54 (-0·01-1·22)	0·18 (-0·47-1·11)	0·15 (0·02-0·37)	0·39 (-0·3-1·16)	1·03 (0·48-2·15)	0·46 (-0·67-1·76)	0·17 (-0·29-0·78)
Angola	0·89 (0·55-1·36)	0·02 (-0·13-0·25)	0·99 (0·35-1·74)	0·11 (0·08-0·16)	0·82 (0·58-1·13)	0·25 (0·11-0·51)	0·4 (0·21-0·78)
Antigua and Barbuda	0·35 (0·11-0·67)	0·51 (-0·49-1·55)	0·38 (-0·04-0·89)	0·2 (-0·03-0·45)	0·8 (0·49-1·21)	0·5 (0·17-1·05)	0·16 (0·05-0·37)
Argentina	1·1 (0·86-1·39)	0·43 (0·09-0·8)	0·11 (0·06-0·17)	0·36 (0·21-0·53)	1·13 (0·86-1·46)	1·93 (1·62-2·29)	0·37 (0·28-0·5)
Armenia	0·03 (-0·43-0·45)	-0·66 (-2·15-0·58)	0·5 (-0·01-1·05)	0·26 (-0·26-0·78)	0·13 (-0·11-0·36)	0·75 (0·42-1·23)	0·85 (0·14-1·87)
Australia	-0·33 (-0·52--0·15)	0·16 (0·07-0·27)	0·15 (0·03-0·27)	-0·07 (-0·63-0·47)	0·07 (-0·3-0·43)	0·86 (-0·73-2·48)	0·45 (-0·04-1·21)
Austria	-0·36 (-0·57--0·16)	0·34 (0·11-0·72)	0·07 (0·01-0·13)	-0·04 (-0·34-0·26)	0·03 (-0·11-0·15)	0·53 (-0·27-1·34)	0·33 (0·03-0·78)
Azerbaijan	0·04 (-0·56-0·61)	-0·71 (-2·12-0·58)	0·21 (0-0·43)	0·24 (-0·24-0·7)	0·15 (-0·12-0·41)	1·05 (-0·02-2·34)	0·27 (0·14-0·43)
Bahrain	0·54 (-0·18-1·42)	0·47 (-1·33-2·56)	0·21 (-0·52-1)	0·35 (-0·5-1·28)	0·83 (0·07-1·76)	0·34 (-0·98-1·88)	0·24 (-0·61-1·29)
Bangladesh	0·2 (0·15-0·26)	0 (-0·01-0·03)	0·67 (0·43-0·94)	0·65 (0·51-0·8)	0·54 (0·45-0·63)	0·03 (0·01-0·06)	0·08 (0·06-0·12)
Barbados	0·54 (0·39-0·75)	0·15 (0·03-0·31)	0·28 (-0·01-0·62)	0·51 (-0·01-1·03)	0·35 (0·24-0·51)	0·31 (0·12-0·64)	0·13 (0·05-0·29)

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Belarus	0·02 (-0·43-0·44)	-0·65 (-1·91-0·6)	0·18 (-0·1-0·48)	0·19 (-0·43-0·83)	0·21 (-0·19-0·68)	0·65 (-0·13-1·66)	0·56 (0·07-1·33)
Belgium	-0·2 (-0·32--0·09)	0·18 (0·07-0·29)	0·07 (0·01-0·12)	-0·02 (-0·09-0·04)	0·02 (-0·09-0·13)	1·17 (0·75-1·64)	0·12 (0·06-0·24)
Belize	0·49 (0·16-0·84)	0·27 (-0·27-0·82)	0·1 (-0·01-0·24)	0·15 (-0·02-0·35)	0·47 (0·28-0·7)	0·22 (0·07-0·45)	0·08 (0·02-0·18)
Benin	1·09 (0·89-1·33)	0·34 (-1·26-2·25)	0·7 (0·54-0·91)	1·83 (1·44-2·32)	0·8 (0·68-0·94)	0·36 (0·25-0·53)	0·38 (0·27-0·55)
Bhutan	0·55 (0·23-1·05)	0·02 (-0·19-0·35)	0·45 (0·08-0·97)	1·01 (0·6-1·6)	1·82 (1·08-2·79)	0·05 (-0·01-0·21)	0·33 (0·15-0·73)
Bolivia	1·61 (1·29-1·95)	0·35 (-0·57-1·48)	0·17 (0·09-0·26)	0·33 (0·19-0·5)	0·89 (0·75-1·04)	0·88 (0·62-1·24)	0·22 (0·05-0·52)
Bosnia and Herzegovina	0·04 (-0·62-0·7)	-0·48 (-0·95--0·16)	0·08 (-0·03-0·19)	0·1 (-0·2-0·43)	0·33 (-0·29-1·03)	0·79 (0·01-1·72)	0·52 (0·12-1·14)
Botswana	1 (0·63-1·5)	0·11 (-0·54-0·9)	0·49 (0·2-0·87)	0·96 (0·7-1·29)	1·49 (1·06-2)	0·09 (0·04-0·18)	0·49 (0·26-0·92)
Brazil	1·07 (0·88-1·3)	0·87 (0·18-1·67)	0·31 (0·17-0·47)	0·21 (0·12-0·33)	1·9 (1·56-2·27)	0·66 (0·54-0·81)	0·13 (0·09-0·18)
Brunei	0·39 (-0·5-1·27)	1·08 (-0·15-2·36)	0·29 (-0·46-1·07)	0·62 (0·14-1·25)	0·45 (0·26-0·71)	0·04 (-0·02-0·14)	0·12 (0·03-0·3)
Bulgaria	0·02 (-0·28-0·29)	-0·53 (-0·99--0·18)	0·16 (0-0·31)	0·06 (-0·06-0·17)	0·15 (-0·12-0·4)	1·18 (0·71-1·82)	2·3 (0·36-3·48)
Burkina Faso	0·16 (0·13-0·21)	0·1 (-0·67-1·13)	0·84 (0·64-1·11)	0·5 (0·38-0·67)	0·8 (0·67-0·96)	0·09 (0·06-0·13)	0·14 (0·1-0·22)
Burundi	0·78 (0·61-0·98)	0·09 (-0·54-0·91)	1·06 (0·79-1·41)	0·74 (0·56-0·98)	0·82 (0·68-1)	0·09 (0·06-0·13)	0·04 (0·03-0·08)
Cambodia	0·15 (0·09-0·21)	0·5 (-0·28-1·77)	0·38 (0·19-0·57)	0·34 (0·26-0·42)	0·32 (0·27-0·38)	0·01 (0·01-0·02)	0·01 (0·01-0·02)
Cameroon	0·56 (0·46-0·67)	0·03 (-0·21-0·37)	0·93 (0·37-1·59)	1·1 (0·89-1·37)	0·9 (0·77-1·05)	0·18 (0·08-0·37)	0·16 (0·11-0·23)
Canada	-0·17 (-0·27--0·08)	0·16 (0·07-0·26)	0·06 (0·01-0·11)	-0·05 (-0·23-0·12)	0·05 (-0·2-0·29)	0·59 (0·45-0·74)	0·16 (0·11-0·21)
Cape Verde	1·22 (0·79-1·8)	0·1 (-0·47-0·88)	0·76 (0·33-1·32)	3·16 (2·36-4·16)	1·89 (1·37-2·55)	0·24 (0·11-0·47)	0·63 (0·33-1·13)
Central African Republic	4·52 (3·78-5·22)	0·08 (-0·46-0·84)	1·13 (0·4-1·98)	1·06 (0·79-1·4)	0·34 (0·25-0·48)	0·22 (0·1-0·43)	0·37 (0·2-0·68)
Chad	1·81 (1·5-2·16)	0·06 (-0·4-0·67)	0·74 (0·56-0·96)	0·76 (0·59-0·97)	0·67 (0·57-0·79)	0·11 (0·07-0·16)	0·28 (0·19-0·4)
Chile	0·27 (0·14-0·49)	1·06 (0·22-2·18)	0·17 (0·08-0·3)	0·55 (-0·1-1·29)	1·72 (1·04-2·83)	0·86 (0·27-1·83)	0·43 (0·25-0·71)
China	0·49 (0·29-0·7)	0·16 (0·12-0·21)	0·15 (0·08-0·23)	0·66 (0·21-1·25)	0·33 (0·27-0·42)	0·06 (-0·01-0·21)	0·08 (0·03-0·19)
Colombia	1·34 (1·08-1·62)	1·37 (0·29-2·47)	0·4 (0·21-0·6)	0·4 (0·23-0·59)	0·49 (0·41-0·57)	0·51 (0·36-0·72)	0·32 (0·23-0·43)

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Comoros	1·31 (1·06-1·61)	0·08 (-0·4-0·73)	1·56 (1·21-2·01)	1·74 (1·37-2·21)	1·47 (1·21-1·78)	0·15 (0·1-0·23)	0·73 (0·48-1·12)
Congo	0·9 (0·72-1·13)	0·28 (-1·02-1·69)	1·53 (1·18-1·95)	0·12 (0·09-0·16)	0·91 (0·76-1·09)	0·09 (0·06-0·13)	0·85 (0·6-1·21)
Costa Rica	0·81 (0·23-1·5)	0·51 (-0·58-1·66)	0·57 (-0·06-1·29)	0·34 (-0·05-0·76)	1·09 (0·66-1·65)	0·66 (0·21-1·4)	0·16 (0·04-0·38)
Cote d'Ivoire	0·76 (0·59-0·97)	0·08 (-0·39-0·74)	1·56 (1·19-2·02)	0·94 (0·73-1·25)	0·98 (0·8-1·18)	0·1 (0·07-0·15)	0·49 (0·32-0·76)
Croatia	0 (-0·12-0·16)	-0·77 (-1·71--0·05)	0·24 (0-0·55)	0·11 (-0·21-0·43)	0·23 (-0·2-0·72)	0·64 (0-1·35)	0·52 (0·09-1·12)
Cuba	1·33 (0·44-2·21)	0·52 (-0·59-1·69)	0·08 (-0·01-0·19)	0·4 (-0·05-0·88)	1·08 (0·66-1·61)	0·64 (0·2-1·32)	0·15 (0·05-0·34)
Cyprus	-0·28 (-0·5--0·11)	0·07 (0·03-0·14)	0·08 (0·01-0·19)	-0·03 (-0·25-0·19)	0·02 (-0·09-0·14)	0·61 (-0·36-1·68)	0·28 (0-0·7)
Czech Republic	0·03 (-0·61-0·66)	-0·63 (-1·8-0·52)	0·19 (-0·09-0·48)	0·12 (-0·26-0·51)	0·12 (-0·1-0·4)	0·61 (-0·09-1·51)	0·74 (0·1-1·6)
Democratic Republic of the Congo	0·69 (0·56-0·84)	0·38 (-1·39-2·32)	1·34 (1·03-1·71)	0·19 (0·15-0·25)	1·13 (0·95-1·34)	0·08 (0·06-0·12)	0·31 (0·21-0·47)
Denmark	-0·19 (-0·69-0·3)	0·19 (-0·77-1·15)	0·11 (-0·22-0·48)	-0·03 (-0·24-0·18)	0·04 (-0·52-0·58)	0·45 (-0·4-1·37)	0·32 (-0·03-0·86)
Djibouti	1·19 (0·73-1·76)	0·29 (-1·15-1·87)	0·97 (0·38-1·71)	4·51 (3·44-5·66)	1·35 (0·96-1·81)	0·24 (0·1-0·5)	0·47 (0·24-0·88)
Dominica	0·27 (0·08-0·5)	0·18 (-0·28-0·81)	0·14 (0-0·32)	0·18 (-0·01-0·4)	1·03 (0·63-1·51)	0·59 (0·19-1·22)	0·17 (0·05-0·39)
Dominican Republic	0·8 (0·64-0·98)	0·64 (-0·84-2·19)	0·18 (0·1-0·28)	0·3 (0·17-0·44)	1·14 (0·96-1·33)	0·7 (0·49-1)	0·07 (0·04-0·12)
Ecuador	0·71 (0·44-1·17)	0·08 (0·02-0·18)	0·19 (0·09-0·37)	0·22 (0·11-0·38)	0·69 (0·53-0·9)	0·3 (0·22-0·41)	0·23 (0·13-0·42)
Egypt	0·42 (0·27-0·58)	0·14 (-0·31-0·79)	0·09 (0·01-0·17)	0·24 (0·06-0·42)	0·34 (0·22-0·47)	0·13 (0·06-0·22)	0·06 (0·02-0·1)
El Salvador	0·89 (0·25-1·69)	0·84 (-0·89-2·63)	0·13 (-0·01-0·31)	0·35 (-0·05-0·79)	1·25 (0·73-1·91)	1·14 (0·36-2·31)	0·28 (0·07-0·7)
Equatorial Guinea	1·3 (0·81-1·95)	0·06 (-0·32-0·64)	1·39 (0·52-2·42)	0·55 (0·4-0·74)	1 (0·72-1·36)	0·22 (0·1-0·47)	0·4 (0·21-0·75)
Eritrea	1·28 (0·83-1·83)	0·07 (-0·4-0·64)	1·43 (0·56-2·4)	1·44 (1·06-1·89)	1·41 (1·03-1·88)	0·19 (0·08-0·36)	0·41 (0·23-0·73)
Estonia	0·02 (-0·29-0·31)	-1·22 (-2·03--0·43)	0·2 (0-0·37)	0·14 (-0·14-0·4)	0·42 (-0·33-1·12)	1·83 (0·94-2·57)	0·89 (0·49-1·32)
Ethiopia	0·57 (0·47-0·68)	0·28 (-1·3-2·25)	0·14 (0·1-0·18)	1·1 (0·89-1·36)	1·23 (1·06-1·42)	0·43 (0·3-0·61)	0·32 (0·2-0·52)
Federated States of Micronesia	0·14 (-0·18-0·48)	0·71 (-0·24-1·84)	0·21 (-0·32-0·78)	0·49 (0·07-1)	0·19 (0·11-0·3)	0·06 (-0·03-0·23)	0·07 (0·02-0·18)
Fiji	0·09 (-0·1-0·29)	0·36 (-0·11-1·09)	0·14 (-0·17-0·49)	0·75 (0·24-1·39)	0·4 (0·23-0·61)	0·05 (-0·01-0·18)	0·1 (0·03-0·23)

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Finland	-0·17 (-0·26--0·08)	0·3 (0·12-0·49)	0·11 (0·02-0·21)	-0·03 (-0·15-0·08)	0·06 (-0·25-0·37)	0·49 (0·33-0·7)	0·3 (0·18-0·49)
France	-0·18 (-0·28--0·09)	0·22 (0·09-0·36)	0·11 (0·02-0·21)	-0·02 (-0·11-0·06)	0·04 (-0·21-0·32)	0·78 (0·6-0·98)	0·46 (0·33-0·6)
Gabon	1·42 (1·14-1·76)	0·09 (-0·56-0·96)	0·77 (0·59-1)	1·51 (1·15-1·95)	1·38 (1·16-1·62)	0·12 (0·08-0·17)	0·23 (0·15-0·37)
Georgia	0·01 (-0·1-0·11)	-0·91 (-2·35-0·52)	0·54 (-0·27-1·31)	0·13 (-0·26-0·52)	0·15 (-0·12-0·5)	1·42 (0·04-2·89)	0·49 (0·07-1·19)
Germany	-0·17 (-0·25--0·08)	0·39 (0·16-0·64)	0·06 (0·01-0·11)	-0·05 (-0·2-0·11)	0·04 (-0·16-0·24)	0·45 (0·34-0·59)	0·26 (0·19-0·35)
Ghana	0·55 (0·47-0·65)	0·03 (-0·05-0·19)	1·86 (1·49-2·31)	1·29 (1·06-1·57)	0·58 (0·49-0·68)	0·07 (0·05-0·09)	0·05 (0·03-0·07)
Greece	-0·32 (-0·52--0·15)	0·04 (0·02-0·07)	0·12 (0·02-0·23)	-0·04 (-0·29-0·22)	0·03 (-0·14-0·21)	0·58 (-0·44-1·69)	0·41 (-0·01-1·02)
Grenada	0·26 (0·09-0·48)	0·15 (-0·19-0·63)	0·21 (0-0·47)	0·32 (-0·02-0·7)	0·62 (0·39-0·91)	0·35 (0·13-0·79)	0·15 (0·05-0·34)
Guatemala	1·21 (0·97-1·48)	0·83 (-0·89-2·49)	0·08 (0·04-0·13)	0·45 (0·26-0·67)	0·84 (0·7-1·02)	1·08 (0·34-2·24)	0·24 (0·16-0·34)
Guinea	0·77 (0·59-1·02)	0·22 (-0·97-1·69)	0·48 (0·36-0·65)	0·72 (0·54-0·97)	0·87 (0·73-1·02)	0·14 (0·09-0·2)	0·19 (0·12-0·29)
Guinea-Bissau	1·22 (0·79-1·79)	0·07 (-0·39-0·66)	0·51 (0·2-0·9)	0·93 (0·7-1·23)	1·53 (1·13-2·07)	0·22 (0·1-0·42)	0·36 (0·2-0·66)
Guyana	0·51 (0·4-0·64)	0·56 (-0·65-1·77)	0·35 (0·19-0·55)	0·24 (0·14-0·37)	1·01 (0·83-1·23)	0·42 (0·29-0·61)	0·14 (0·04-0·33)
Haiti	0·37 (0·29-0·46)	0·47 (-0·62-1·92)	0·32 (0·17-0·49)	0·1 (0·05-0·15)	1·06 (0·88-1·27)	0·26 (0·18-0·38)	0·04 (0·02-0·07)
Honduras	0·52 (0·41-0·65)	0·8 (-0·86-2·39)	0·14 (0·08-0·23)	0·39 (0·22-0·59)	0·86 (0·71-1·03)	0·79 (0·55-1·13)	0·04 (0·02-0·06)
Hungary	0·01 (-0·09-0·1)	-0·2 (-0·38--0·06)	0·08 (0-0·23)	0·11 (-0·23-0·45)	0·07 (-0·06-0·19)	0·59 (-0·08-1·42)	0·61 (0·08-1·35)
Iceland	-0·19 (-0·29--0·09)	0·14 (0·06-0·23)	0·14 (0·03-0·26)	-0·03 (-0·31-0·23)	0·06 (-0·27-0·39)	0·5 (-0·49-1·52)	0·32 (-0·07-0·83)
India	0·08 (0·06-0·1)	0·02 (-0·23-0·44)	0·14 (0·09-0·2)	0·23 (0·18-0·28)	1·25 (1·05-1·47)	0·02 (0·01-0·04)	0·21 (0·15-0·28)
Indonesia	0·14 (0·08-0·2)	1·09 (-0·13-2·46)	0·28 (0·14-0·41)	0·62 (0·48-0·76)	0·53 (0·45-0·61)	0·04 (0·02-0·07)	0·03 (0·02-0·04)
Iran	0·22 (0·15-0·31)	0·14 (0·03-0·28)	0·05 (0·01-0·1)	0·16 (0·04-0·29)	0·26 (0·16-0·36)	0·24 (0·11-0·37)	0·27 (0·09-0·45)
Iraq	0·71 (-0·08-1·63)	0·59 (-0·95-2·34)	0·15 (-0·27-0·6)	0·64 (-0·6-1·92)	0·57 (0·11-1·18)	0·4 (-0·8-1·7)	0·18 (-0·33-0·86)
Ireland	-0·12 (-0·22--0·05)	0·21 (0·08-0·4)	0·04 (0·01-0·09)	-0·03 (-0·22-0·16)	0·07 (-0·31-0·47)	0·57 (-0·3-1·51)	0·3 (0·01-0·72)
Israel	1·37 (0·9-1·85)	1·32 (0·33-2·37)	0·62 (0·08-1·17)	0·55 (0·15-0·96)	0·74 (0·12-1·51)	1·18 (0·59-1·79)	0·45 (0·16-0·76)

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Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Italy	-0·13 (-0·2--0·06)	0·09 (0·04-0·15)	0·15 (0·03-0·28)	-0·02 (-0·09-0·05)	0·02 (-0·07-0·1)	0·26 (0·19-0·34)	0·07 (0·05-0·09)
Jamaica	0·14 (0·1-0·2)	0·23 (0·05-0·48)	0·4 (0·2-0·63)	0·29 (-0·01-0·64)	1·02 (0·73-1·42)	0·54 (0·19-1·13)	0·14 (0·04-0·32)
Japan	0·39 (0·24-0·54)	0·46 (0·36-0·59)	0·2 (0·1-0·29)	0·67 (0·54-0·79)	0·63 (0·56-0·7)	0·07 (0·04-0·1)	0·6 (0·46-0·8)
Jordan	0·65 (0·43-0·89)	0·58 (-1·13-2·36)	0·29 (0·04-0·55)	0·27 (0·07-0·48)	0·68 (0·44-0·93)	0·25 (-0·62-1·34)	0·12 (0·04-0·21)
Kazakhstan	0·04 (-0·61-0·66)	-0·89 (-2·43-0·62)	0·34 (0-0·71)	0·2 (-0·44-0·83)	0·16 (-0·13-0·42)	1·42 (-0·06-2·9)	0·52 (0·27-0·89)
Kenya	0·66 (0·55-0·8)	0·01 (-0·01-0·05)	0·25 (0·19-0·33)	0·49 (0·37-0·64)	2·16 (1·89-2·47)	0·15 (0·1-0·22)	0·18 (0·12-0·25)
Kiribati	0·14 (-0·16-0·48)	0·71 (-0·2-1·78)	0·2 (-0·27-0·71)	0·5 (0·13-0·96)	0·21 (0·12-0·33)	0·06 (-0·02-0·24)	0·08 (0·02-0·18)
Kuwait	0·37 (0·24-0·53)	0·6 (-1·47-3·11)	0·44 (0·05-0·86)	0·5 (-0·64-1·76)	1·46 (0·12-3)	0·42 (-1·25-2·22)	0·28 (-0·74-1·51)
Kyrgyzstan	0·01 (-0·22-0·23)	-0·5 (-1·72-0·51)	0·02 (0-0·03)	0·08 (-0·08-0·24)	0·09 (-0·07-0·24)	0·2 (0·11-0·34)	0·33 (0·17-0·53)
Laos	0·21 (0·12-0·31)	0·81 (0·49-1·36)	0·31 (0·16-0·47)	0·4 (0·3-0·53)	0·49 (0·35-0·67)	0·08 (-0·03-0·3)	0·13 (0·07-0·22)
Latvia	0·03 (-0·54-0·66)	-0·94 (-1·85--0·3)	0·24 (0-0·48)	0·12 (-0·26-0·51)	0·17 (-0·14-0·48)	0·81 (-0·06-1·71)	0·61 (0·1-1·34)
Lebanon	0·33 (0·22-0·45)	0·24 (0·06-0·45)	0·07 (0·01-0·14)	0·18 (0·05-0·32)	0·6 (0·38-0·84)	0·49 (0·23-0·77)	0·29 (0·1-0·5)
Lesotho	1·39 (1·14-1·71)	0·07 (-0·39-0·64)	0·31 (0·23-0·4)	1·4 (1·09-1·79)	1·56 (1·32-1·86)	0·14 (0·09-0·2)	0·4 (0·27-0·63)
Liberia	1·32 (1·08-1·61)	0·48 (-1·45-2·49)	1·65 (1·3-2·09)	1·4 (1·13-1·74)	0·96 (0·79-1·17)	0·22 (0·1-0·43)	0·22 (0·15-0·34)
Libya	0·43 (-0·04-1·02)	0·28 (-0·67-1·42)	0·17 (-0·24-0·66)	0·28 (-0·28-0·86)	0·71 (0·13-1·45)	0·29 (-0·57-1·24)	0·2 (-0·38-0·92)
Lithuania	0·05 (-0·81-0·89)	-0·78 (-2·16-0·54)	0·28 (0-0·58)	0·26 (-0·56-1·1)	0·04 (-0·08-0·91)	0·95 (-0·04-2·15)	0·88 (0·13-1·9)
Luxembourg	-0·32 (-0·65--0·13)	0·41 (0·03-0·81)	0·09 (0·02-0·22)	-0·06 (-0·54-0·39)	0·03 (-0·13-0·2)	0·59 (-0·49-1·72)	0·29 (-0·04-0·8)
Macedonia	0·01 (-0·42-0·47)	-0·7 (-1·81-0·4)	0·19 (-0·1-0·48)	0·06 (-0·13-0·27)	0·24 (-0·38-0·86)	0·8 (-0·04-1·73)	0·54 (0·09-1·23)
Madagascar	1·46 (1·24-1·72)	0·08 (-0·47-0·83)	1·12 (0·87-1·42)	0·6 (0·48-0·75)	0·92 (0·78-1·07)	0·21 (0·09-0·42)	0·21 (0·15-0·31)
Malawi	0·84 (0·7-1)	0·1 (-0·61-1·04)	1·13 (0·88-1·43)	0·9 (0·74-1·11)	0·79 (0·68-0·92)	0·09 (0·06-0·13)	0·17 (0·12-0·25)
Malaysia	0·1 (0·06-0·14)	0·63 (0·45-0·88)	0·39 (0·2-0·61)	0·48 (0·36-0·61)	0·3 (0·23-0·4)	0·09 (-0·04-0·34)	0·11 (0·03-0·26)
The Maldives	0·82 (0·58-1·13)	0·17 (-1·22-1·94)	0·72 (0·45-1·05)	1·04 (0·78-1·36)	2·7 (2·16-3·34)	0·17 (-0·07-0·69)	0·58 (0·37-0·88)

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Mali	1·52 (1·26-1·82)	0·18 (-0·86-1·59)	1·93 (1·51-2·45)	1 (0·8-1·23)	3 (2·59-3·47)	0·17 (0·11-0·25)	0·42 (0·29-0·6)
Malta	-0·25 (-0·45--0·11)	0·28 (0·11-0·54)	0·16 (0·03-0·32)	-0·03 (-0·14-0·07)	0·05 (-0·24-0·37)	0·45 (0·26-0·74)	0·37 (-0·06-0·98)
Marshall Islands	0·13 (-0·18-0·48)	0·36 (-0·17-1·13)	0·17 (-0·26-0·65)	0·35 (0·07-0·71)	0·55 (0·32-0·87)	0·07 (-0·03-0·27)	0·08 (0·02-0·21)
Mauritania	1·02 (0·65-1·51)	0·44 (-1·32-2·42)	0·96 (0·41-1·61)	1·76 (1·33-2·32)	1·84 (1·33-2·49)	0·19 (0·09-0·38)	0·55 (0·28-0·99)
Mauritius	2·23 (1·01-4·51)	0·62 (-0·96-2·09)	1·31 (0·96-1·78)	2·46 (1·74-3·35)	1·74 (1·3-2·31)	0·14 (0·07-0·28)	0·76 (0·38-1·46)
Mexico	0·66 (0·54-0·79)	0·36 (0·08-0·69)	0·08 (0·04-0·12)	0·48 (0·28-0·71)	1·98 (1·68-2·31)	0·97 (0·81-1·15)	0·2 (0·15-0·27)
Moldova	0·03 (-0·53-0·56)	-0·84 (-2·23-0·58)	0·25 (-0·13-0·65)	0·15 (-0·32-0·64)	0·14 (-0·12-0·48)	1·01 (0-2·21)	0·61 (0·11-1·32)
Mongolia	0·02 (-0·84-0·83)	-0·23 (-1·29-0·42)	0·13 (-0·08-0·36)	0·34 (-0·76-1·42)	0·21 (-0·41-0·83)	1·13 (-0·15-2·39)	0·48 (0·02-1·2)
Montenegro	0·02 (-0·55-0·68)	-1·06 (-2·1--0·31)	0·39 (0-0·92)	0·12 (-0·26-0·55)	0·42 (-0·34-1·23)	0·83 (-0·04-1·78)	0·67 (0·12-1·45)
Morocco	0·4 (0·19-0·78)	0·53 (-0·75-1·95)	0·23 (0·03-0·54)	0·39 (0·1-0·82)	0·98 (0·5-1·89)	0·16 (0·07-0·3)	0·22 (0·07-0·51)
Mozambique	1·36 (1·1-1·65)	0·08 (-0·46-0·78)	1·34 (1·05-1·72)	2·76 (2·24-3·39)	0·93 (0·75-1·15)	0·18 (0·13-0·26)	0·22 (0·15-0·35)
Myanmar	0·56 (-0·63-1·78)	1·29 (-0·21-2·86)	0·56 (-0·79-1·92)	1·12 (0·27-2·09)	1·2 (0·71-1·85)	0·07 (-0·03-0·26)	0·15 (0·05-0·35)
Namibia	0·99 (0·85-1·17)	0·09 (-0·45-0·81)	0·52 (0·41-0·66)	1·19 (0·98-1·46)	1·37 (1·17-1·6)	0·56 (0·37-0·82)	0·29 (0·2-0·43)
Nepal	0·38 (0·27-0·51)	0·01 (-0·11-0·19)	0·16 (0·1-0·24)	0·41 (0·31-0·53)	0·96 (0·79-1·16)	0·03 (0·01-0·06)	0·22 (0·15-0·32)
Netherlands	-0·17 (-0·27--0·08)	0·15 (0·06-0·25)	0·05 (0·01-0·08)	-0·02 (-0·09-0·05)	0·04 (-0·16-0·23)	0·59 (0·44-0·74)	0·87 (0·62-1·16)
New Zealand	-0·23 (-0·36--0·1)	0·25 (0·1-0·41)	0·11 (-0·22-0·46)	-0·04 (-0·35-0·26)	0·06 (-0·23-0·34)	0·82 (-0·68-2·33)	0·35 (-0·04-0·95)
Nicaragua	0·76 (0·22-1·42)	0·95 (-0·88-2·79)	0·25 (-0·01-0·57)	0·48 (-0·05-1·08)	1·5 (0·89-2·24)	0·74 (0·23-1·6)	0·27 (0·07-0·64)
Niger	0·27 (0·22-0·34)	0·06 (-0·51-0·88)	0·21 (0·15-0·29)	0·6 (0·46-0·79)	2·03 (1·69-2·44)	0·18 (0·12-0·26)	0·74 (0·51-1·08)
Nigeria	1·16 (1-1·35)	0·09 (-0·48-0·87)	0·98 (0·79-1·2)	0·83 (0·7-0·99)	0·91 (0·79-1·05)	0·18 (0·13-0·26)	0·26 (0·19-0·37)
Norway	-0·24 (-0·38--0·11)	0·14 (0·05-0·27)	0·17 (0·03-0·31)	-0·03 (-0·24-0·17)	0·04 (-0·15-0·22)	0·44 (-0·34-1·26)	0·26 (-0·01-0·65)
Oman	0·58 (-0·2-1·52)	0·58 (-1·39-2·7)	0·19 (-0·45-0·88)	0·38 (-0·48-1·39)	0·9 (0·08-1·91)	0·31 (-0·84-1·77)	0·22 (-0·63-1·2)
Pakistan	0·86 (0·62-1·13)	0·07 (-0·66-1·12)	0·09 (0·05-0·13)	0·94 (0·71-1·19)	1·34 (1·08-1·62)	0·04 (0·01-0·09)	0·22 (0·14-0·33)

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Palestine	0·53 (-0·1-1·28)	0·37 (-0·84-1·89)	0·19 (-0·33-0·78)	0·33 (-0·35-1·03)	0·89 (0·13-1·84)	0·33 (-0·61-1·48)	0·21 (-0·45-1·05)
Panama	0·93 (0·3-1·67)	0·64 (-0·64-1·94)	0·23 (0-0·51)	0·17 (-0·02-0·38)	1·02 (0·62-1·55)	0·61 (0·2-1·31)	0·21 (0·06-0·49)
Papua New Guinea	0·55 (-0·84-1·94)	0·27 (-0·27-1·41)	0 (0-0)	0·07 (0·01-0·15)	0·11 (0·06-0·18)	0·09 (-0·06-0·4)	0·1 (0·02-0·28)
Paraguay	1·58 (0·51-2·61)	0·55 (-0·63-1·86)	0·13 (-0·01-0·3)	0·41 (-0·06-0·94)	0·83 (0·5-1·26)	1·59 (0·55-2·85)	0·15 (0·04-0·37)
Peru	1·92 (1·56-2·32)	0·65 (-0·85-2·36)	0·54 (-0·06-1·25)	0·46 (0·26-0·68)	0·88 (0·74-1·02)	1·78 (0·56-3·35)	0·14 (0·1-0·2)
The Philippines	0·11 (0·07-0·16)	1·51 (1·16-1·91)	0·1 (0·05-0·15)	0·34 (0·27-0·42)	0·88 (0·75-1·02)	0·02 (0·01-0·04)	0·06 (0·04-0·08)
Poland	0·02 (-0·3-0·33)	-1·18 (-2·03--0·41)	0·15 (0-0·28)	0·12 (-0·11-0·35)	0·18 (-0·14-0·49)	1·32 (0·83-1·83)	0·29 (0·16-0·42)
Portugal	-0·19 (-0·29--0·09)	0·09 (0·04-0·14)	0·17 (0·03-0·3)	-0·03 (-0·13-0·07)	0·04 (-0·15-0·22)	0·29 (0·22-0·37)	0·34 (0·25-0·45)
Qatar	0·51 (-0·36-1·53)	0·48 (-1·94-3·21)	0·21 (-0·7-1·17)	0·33 (-0·67-1·44)	0·79 (-0·11-1·9)	0·35 (-1·46-2·41)	0·24 (-0·86-1·62)
Romania	0·02 (-0·37-0·38)	-1·07 (-1·98--0·35)	0·37 (0-0·71)	0·29 (-0·29-0·83)	0·23 (-0·19-0·62)	2·63 (1·7-3·57)	0·53 (0·3-0·8)
Russia	0·06 (-0·94-1·1)	-1·42 (-2·71--0·48)	0·36 (0-0·7)	0·25 (-0·56-1·06)	0·31 (-0·26-0·88)	1·07 (-0·14-2·53)	0·87 (0·09-1·96)
Rwanda	0·31 (0·24-0·39)	0·03 (-0·18-0·31)	0·78 (0·6-1)	0·4 (0·31-0·52)	0·91 (0·77-1·07)	0·09 (0·06-0·13)	0·1 (0·06-0·16)
Saint Lucia	0·43 (0·12-0·81)	0·14 (-0·2-0·66)	0·14 (-0·02-0·36)	0·12 (-0·02-0·28)	0·64 (0·38-0·98)	0·31 (0·1-0·71)	0·15 (0·04-0·35)
Saint Vincent and the Grenadines	0·64 (0·22-1·14)	0·27 (-0·31-0·99)	0·26 (0-0·58)	0·16 (0-0·35)	1·02 (0·64-1·49)	0·54 (0·2-1·1)	0·15 (0·05-0·35)
Samoa	0·11 (-0·18-0·43)	0·59 (-0·29-1·67)	0·16 (-0·25-0·6)	0·08 (0·01-0·16)	1·08 (0·59-1·72)	0·08 (-0·04-0·32)	0·09 (0·02-0·22)
Sao Tome and Principe	0·44 (0·34-0·58)	0·27 (-1·19-1·99)	2·16 (1·7-2·77)	0·72 (0·57-0·94)	2·71 (2·18-3·35)	0·23 (0·1-0·48)	1·16 (0·79-1·7)
Saudi Arabia	0·43 (-0·07-1·01)	0·71 (-1·14-2·51)	0·24 (-0·44-0·97)	0·41 (-0·4-1·29)	0·49 (0·1-0·99)	0·31 (-0·68-1·47)	0·22 (-0·44-1·01)
Senegal	0·52 (0·43-0·63)	0·31 (-1·19-2·13)	1·43 (1·14-1·79)	0·52 (0·42-0·66)	0·58 (0·5-0·68)	0·18 (0·12-0·25)	0·69 (0·49-0·99)
Serbia	0·02 (-0·34-0·35)	-0·54 (-1·27--0·17)	0·13 (0-0·27)	0·1 (-0·11-0·35)	0·16 (-0·14-0·49)	0·67 (0·33-1·3)	0·51 (0·09-1·14)
Seychelles	1·01 (0·85-1·2)	0·2 (-0·3-0·62)	3·45 (2·8-4·07)	1·63 (1·17-2·24)	1·36 (1·08-1·68)	0·35 (0·27-0·46)	0·49 (0·26-0·91)
Sierra Leone	0·66 (0·55-0·79)	0·62 (-1·74-3)	1·56 (1·24-1·95)	1·22 (0·99-1·5)	1·12 (0·95-1·32)	0·13 (0·09-0·19)	0·19 (0·13-0·28)
Singapore	0·16 (0·1-0·24)	0·44 (0·32-0·57)	0·16 (0·08-0·25)	0·46 (0·02-1)	0·37 (0·29-0·48)	0·03 (-0·02-0·11)	0·1 (0·02-0·24)

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Slovakia	0·01 (-0·15-0·15)	-1·02 (-1·92--0·34)	0·06 (0-0·13)	0·04 (-0·04-0·13)	0·11 (-0·09-0·31)	0·43 (0·27-0·64)	0·29 (0·16-0·47)
Slovenia	0·02 (-0·27-0·28)	-0·68 (-1·41--0·22)	0·26 (0-0·57)	0·19 (-0·37-0·75)	0·21 (-0·18-0·65)	0·66 (0-1·5)	0·67 (0·14-1·44)
Solomon Islands	0·19 (-0·26-0·69)	0·64 (-0·31-1·82)	0·1 (-0·16-0·4)	0·18 (0·02-0·38)	0·69 (0·37-1·14)	0·06 (-0·03-0·25)	0·07 (0·02-0·18)
South Africa	3·78 (3·46-4·11)	0·18 (-0·25-0·6)	0·09 (0·07-0·12)	2·09 (1·54-2·76)	1·55 (1·32-1·81)	0·1 (0·05-0·2)	0·45 (0·24-0·83)
South Korea	0·2 (0·12-0·28)	0·07 (0·05-0·08)	0·09 (0·05-0·14)	0·37 (0·29-0·44)	1·02 (0·89-1·16)	0·12 (0·07-0·18)	0·25 (0·2-0·3)
South Sudan	1·09 (0·69-1·66)	0·08 (-0·45-0·8)	1·25 (0·4-2·25)	1·14 (0·85-1·53)	1·21 (0·86-1·65)	0·19 (0·08-0·38)	0·32 (0·18-0·59)
Spain	-0·19 (-0·34--0·08)	0·21 (0·08-0·4)	0·23 (0·04-0·49)	-0·03 (-0·3-0·22)	0·05 (-0·23-0·34)	0·63 (-0·44-1·73)	0·29 (-0·01-0·75)
Sri Lanka	0·84 (0·62-1·1)	0·06 (-0·17-0·31)	0·33 (0·18-0·58)	0·46 (0·3-0·71)	1·57 (1·27-1·93)	0·04 (-0·01-0·16)	0·23 (0·14-0·4)
Sudan	0·9 (0·59-1·31)	0·1 (-0·56-1·01)	1·29 (0·48-2·18)	1·33 (1-1·76)	2·28 (1·81-2·87)	0·19 (0·09-0·39)	0·35 (0·2-0·63)
Suriname	0·78 (0·22-1·4)	0·54 (-0·54-1·66)	0·21 (-0·01-0·47)	0·21 (-0·02-0·47)	0·69 (0·41-1·06)	0·7 (0·23-1·42)	0·15 (0·04-0·35)
Swaziland	0·9 (0·74-1·1)	0·04 (-0·21-0·38)	0·05 (0·03-0·06)	0·34 (0·26-0·44)	1·06 (0·89-1·28)	0·07 (0·03-0·13)	0·41 (0·28-0·61)
Sweden	-0·32 (-0·5--0·15)	0·27 (0·11-0·43)	0·15 (0·03-0·27)	-0·05 (-0·26-0·12)	0·07 (-0·29-0·41)	0·54 (0·42-0·68)	0·63 (0·45-0·83)
Switzerland	-0·22 (-0·36--0·1)	0·17 (0·07-0·28)	0·17 (0·03-0·33)	-0·04 (-0·19-0·09)	0·03 (-0·13-0·19)	0·68 (0·5-0·9)	0·47 (0·32-0·68)
Syria	0·49 (0·01-1·11)	0·31 (-0·58-1·42)	0·18 (-0·26-0·67)	0·32 (-0·22-0·92)	0·82 (0·21-1·57)	0·31 (-0·49-1·29)	0·2 (-0·31-0·87)
Taiwan	0·32 (0·19-0·45)	0·57 (0·44-0·73)	0·11 (0·06-0·17)	0·55 (0·16-1·08)	0·4 (0·32-0·5)	0·05 (-0·02-0·2)	0·1 (0·03-0·25)
Tajikistan	0·02 (-0·3-0·34)	-0·89 (-2·67-0·81)	0·06 (0-0·14)	0·12 (-0·11-0·35)	0·12 (-0·09-0·33)	0·15 (0·08-0·24)	0·47 (0·24-0·8)
Tanzania	1·19 (1-1·41)	0·04 (-0·24-0·41)	0·59 (0·46-0·77)	0·52 (0·42-0·64)	0·91 (0·78-1·06)	0·09 (0·06-0·13)	0·15 (0·09-0·24)
Thailand	0·22 (0·11-0·39)	0·49 (-0·08-1·33)	0·24 (-0·28-0·82)	0·75 (0·25-1·39)	0·91 (0·54-1·51)	0·08 (-0·01-0·27)	0·1 (0·04-0·23)
The Bahamas	0·55 (0·11-1·1)	0·29 (-0·48-1·22)	0·17 (-0·04-0·41)	0·56 (-0·16-1·3)	1·15 (0·67-1·74)	0·65 (0·18-1·38)	0·21 (0·04-0·51)
The Gambia	0·45 (0·35-0·58)	0·45 (-1·56-2·6)	1·26 (0·96-1·63)	1·56 (1·21-2)	0·53 (0·42-0·66)	0·17 (0·11-0·25)	0·11 (0·07-0·19)
Timor-Leste	0·1 (0·06-0·15)	1 (-0·31-2·47)	0·12 (0·06-0·18)	0·26 (0·19-0·33)	0·52 (0·43-0·64)	0·08 (-0·05-0·32)	0·03 (0·02-0·04)
Togo	0·59 (0·47-0·76)	0·24 (-0·85-1·7)	1·29 (0·99-1·66)	0·75 (0·57-1)	0·25 (0·18-0·34)	0·1 (0·07-0·16)	0·12 (0·07-0·2)

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Tonga	0·07 (-0·09-0·24)	0·2 (-0·12-0·62)	0·08 (-0·14-0·32)	0·18 (0·04-0·36)	0·27 (0·15-0·44)	0·03 (-0·02-0·13)	0·04 (0·01-0·1)
Trinidad and Tobago	0·39 (0·15-0·67)	0·27 (-0·23-0·82)	0·11 (0·06-0·17)	0·08 (0-0·19)	0·45 (0·29-0·67)	0·18 (0·12-0·28)	0·09 (0·03-0·2)
Tunisia	0·51 (0·28-0·88)	0·02 (0-0·04)	0·22 (0·03-0·47)	0·33 (0·09-0·66)	1·14 (0·56-2·29)	0·05 (0·02-0·09)	0·17 (-0·27-0·75)
Turkey	0·51 (0·29-0·81)	0·07 (0·02-0·15)	0·03 (0-0·07)	0·13 (0·03-0·28)	0·84 (0·48-1·42)	0·48 (0·22-0·83)	0·31 (0·09-0·65)
Turkmenistan	0·03 (-0·97-1·01)	-0·88 (-2·47-0·69)	0·12 (-0·05-0·29)	0·12 (-0·24-0·49)	0·19 (-0·33-0·72)	1·32 (-0·1-2·81)	0·51 (0·05-1·25)
Uganda	0·6 (0·5-0·7)	0·07 (-0·41-0·67)	0·31 (0·24-0·38)	0·68 (0·57-0·82)	1·56 (1·34-1·81)	0·07 (0·05-0·11)	0·1 (0·06-0·15)
Ukraine	0·01 (-0·26-0·28)	-0·88 (-2·43-0·7)	0·3 (-0·18-0·78)	0·18 (-0·39-0·76)	0·2 (-0·17-0·57)	0·94 (-0·11-2·22)	0·72 (0·1-1·7)
United Arab Emirates	0·42 (-0·18-1·12)	0·64 (-1·85-3·28)	0·26 (-0·61-1·25)	0·35 (-0·53-1·3)	0·88 (0·05-1·96)	0·39 (-1·2-2·29)	0·25 (-0·75-1·35)
United Kingdom	-0·09 (-0·15--0·04)	0·14 (0·06-0·23)	0·07 (0·01-0·13)	-0·02 (-0·2-0·15)	0·03 (-0·13-0·19)	0·4 (-0·29-1·08)	0·21 (-0·01-0·53)
United States	-0·2 (-0·31--0·09)	0·25 (0·1-0·39)	0·06 (0·01-0·1)	-0·06 (-0·49-0·36)	0·07 (-0·27-0·39)	0·85 (0·65-1·06)	0·12 (0·09-0·15)
Uruguay	0·79 (0·15-1·54)	0·59 (-0·7-1·91)	0·19 (-0·05-0·46)	0·35 (-0·08-0·85)	1·24 (0·71-1·88)	0·6 (0·15-1·33)	0·21 (0·05-0·52)
Uzbekistan	0·04 (-0·62-0·65)	-0·82 (-2·33-0·59)	0·45 (-0·19-1·12)	0·22 (-0·45-0·86)	0·15 (-0·13-0·41)	1·18 (-0·08-2·56)	0·57 (0·3-0·97)
Vanuatu	0·17 (-0·26-0·68)	0·23 (-0·19-0·87)	0·14 (-0·24-0·56)	0·36 (0·05-0·73)	0·46 (0·25-0·75)	0·06 (-0·03-0·23)	0·07 (0·02-0·18)
Venezuela	0·81 (0·14-1·65)	0·74 (-1·11-2·56)	0·15 (-0·03-0·36)	0·28 (-0·08-0·68)	2·09 (1·15-3·22)	1·14 (0·25-2·48)	0·31 (0·05-0·79)
Vietnam	0·21 (0·11-0·35)	0·3 (-0·11-0·93)	0·22 (0·11-0·38)	0·72 (0·19-1·34)	0·38 (0·28-0·5)	0·06 (-0·01-0·19)	0·07 (0·02-0·16)
Yemen	0·38 (0·24-0·54)	0·44 (-0·74-2·01)	0·08 (0·01-0·16)	0·1 (0·02-0·17)	0·88 (0·55-1·25)	0·19 (0·09-0·34)	0·08 (0·02-0·14)
Zambia	2 (1·71-2·33)	0·15 (-0·71-1·25)	1·08 (0·86-1·36)	1·19 (0·99-1·43)	0·72 (0·63-0·83)	0·07 (0·05-0·11)	0·14 (0·1-0·2)
Zimbabwe	1·07 (0·91-1·26)	0·09 (-0·46-0·78)	0·4 (0·31-0·5)	1·15 (0·95-1·39)	1·22 (1·06-1·4)	0·07 (0·05-0·11)	0·46 (0·33-0·64)

Table S16. Absolute change in ASF intake (servings/week) in urban versus rural residence from 185 countries in 2018.

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
World	0·47 (0·4-0·55)	0·23 (-0·11-0·41)	0·09 (0·04-0·14)	0·2 (0·06-0·34)	0·38 (0·3-0·46)	0·14 (0·07-0·21)	0·1 (0·06-0·15)
Southeast and East Asia	0·53 (0·34-0·72)	0·11 (-0·1-0·32)	0·03 (-0·07-0·13)	0·17 (-0·23-0·61)	0·23 (0·17-0·28)	0·04 (-0·03-0·14)	0·06 (0·02-0·13)
Central/Eastern Europe and Central Asia	0·84 (0·24-1·46)	-0·1 (-0·99-0·76)	0·22 (-0·07-0·52)	-0·08 (-0·6-0·45)	-0·16 (-0·59-0·23)	0·52 (-0·2-1·29)	0·26 (-0·21-0·8)
High-Income Countries	0·03 (-0·12-0·2)	-0·57 (-0·82--0·31)	0·06 (-0·04-0·16)	-0·18 (-0·46-0·08)	0·03 (-0·4-0·47)	0·21 (-0·14-0·58)	0·02 (-0·1-0·15)
Latin America and the Caribbean	0·81 (0·62-1·01)	2·18 (1·62-2·75)	-0·12 (-0·25-0·01)	0·09 (-0·08-0·26)	0·86 (0·66-1·07)	0·59 (0·46-0·76)	0·11 (0·07-0·17)
Middle East and Northern Africa	0·25 (0·05-0·45)	2·06 (1·17-3·24)	0·12 (-0·02-0·28)	0·16 (-0·14-0·45)	0·32 (0·07-0·59)	0·1 (-0·18-0·38)	0·38 (0·18-0·62)
South Asia	0·34 (0·28-0·41)	-0·44 (-1·82--0·12)	0·16 (0·07-0·25)	0·4 (0·31-0·49)	0·56 (0·37-0·76)	0·04 (0·02-0·07)	0·03 (-0·01-0·07)
Sub-Saharan Africa	0·69 (0·61-0·77)	0·3 (-0·2-1·03)	0·2 (0·1-0·31)	0·41 (0·34-0·48)	0·6 (0·53-0·68)	0·05 (0·03-0·07)	0·15 (0·11-0·22)
Afghanistan	0·41 (0·18-0·77)	-0·29 (-1·61--0·05)	0·04 (-0·03-0·15)	0·56 (0·26-0·98)	0·46 (-0·02-1·06)	0·03 (-0·02-0·16)	0·04 (-0·12-0·25)
Albania	0·56 (0·16-0·99)	-0·07 (-1·98-1·87)	0·13 (-0·03-0·32)	-0·19 (-1·38-0·93)	-0·13 (-0·47-0·19)	0·29 (0·02-0·62)	0·27 (-0·51-1·17)
Algeria	0·25 (-0·28-0·86)	1·14 (0·4-2·89)	0·12 (-0·01-0·36)	0·2 (-0·54-0·99)	0·44 (0·1-1·13)	0·13 (-1·14-1·43)	0·29 (-0·17-0·99)
Angola	0·5 (0·23-0·81)	0·05 (-0·13-0·3)	0·25 (-0·41-0·92)	0·05 (0·03-0·07)	0·39 (0·23-0·58)	0·07 (-0·03-0·2)	0·2 (0·09-0·39)
Antigua and Barbuda	0·41 (0-0·9)	2·45 (0·69-4·39)	-0·25 (-0·9-0·36)	0·07 (-0·3-0·43)	0·68 (0·19-1·26)	0·5 (-0·01-1·3)	0·13 (-0·06-0·41)
Argentina	1·03 (0·77-1·35)	1·43 (1·07-1·82)	-0·06 (-0·14-0·01)	0·11 (-0·1-0·31)	0·77 (0·55-1·04)	1·52 (1·22-1·85)	0·25 (0·15-0·37)
Armenia	0·53 (0·15-0·95)	-0·06 (-1·95-1·86)	0·35 (-0·09-0·85)	-0·09 (-0·65-0·43)	-0·08 (-0·31-0·12)	0·32 (0·02-0·69)	0·3 (-0·79-1·56)
Australia	0·05 (-0·15-0·25)	-0·31 (-0·47--0·16)	0·07 (-0·05-0·19)	-0·23 (-0·86-0·35)	0·03 (-0·46-0·52)	0·19 (-1·66-2·09)	0·02 (-0·74-0·79)
Austria	0·08 (-0·27-0·47)	-1·01 (-1·96--0·42)	0·05 (-0·04-0·15)	-0·23 (-0·74-0·26)	0·02 (-0·25-0·3)	0·22 (-1·25-1·68)	0·04 (-0·55-0·63)
Azerbaijan	0·79 (0·23-1·4)	-0·07 (-1·85-1·72)	0·16 (-0·04-0·38)	-0·09 (-0·63-0·43)	-0·1 (-0·38-0·15)	0·48 (-1·17-2·16)	0·1 (-0·03-0·25)
Bahrain	0·27 (-0·36-0·91)	2·59 (1-5·36)	0·19 (-0·4-0·82)	0·19 (-0·5-0·96)	0·38 (-0·29-1·12)	0·1 (-1·04-1·33)	0·38 (-0·24-1·32)
Bangladesh	0·37 (0·3-0·45)	-0·06 (-0·08--0·04)	0·54 (0·24-0·9)	0·72 (0·56-0·92)	0·24 (0·16-0·33)	0·03 (0·01-0·07)	0·01 (0-0·03)
Barbados	0·87 (0·59-1·23)	0·99 (0·6-1·55)	-0·24 (-0·93-0·4)	0·24 (-1·02-1·53)	0·41 (0·27-0·62)	0·42 (-0·03-1·1)	0·15 (-0·07-0·45)

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Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Belarus	0·57 (0·16-1·32)	-0·06 (-1·74-1·61)	0·15 (-0·2-0·53)	-0·07 (-0·92-0·77)	-0·16 (-0·71-0·27)	0·32 (-0·76-1·53)	0·24 (-0·47-1·09)
Belgium	0·04 (-0·15-0·25)	-0·55 (-0·86--0·29)	0·05 (-0·03-0·13)	-0·09 (-0·23-0)	0·02 (-0·21-0·23)	0·43 (-0·22-1·16)	0·01 (-0·06-0·09)
Belize	1·16 (-0·37-2·81)	2·7 (0·31-5·26)	-0·14 (-0·65-0·34)	0·12 (-0·64-0·92)	0·82 (0·01-1·73)	0·43 (-0·19-1·31)	0·13 (-0·14-0·49)
Benin	0·51 (0·43-0·62)	0·56 (-1·35-3·19)	0·14 (0·08-0·22)	0·6 (0·47-0·76)	0·31 (0·27-0·37)	0·08 (0·05-0·13)	0·15 (0·11-0·22)
Bhutan	0·84 (0·46-1·52)	-0·27 (-1·31--0·06)	0·3 (-0·12-0·87)	0·92 (0·5-1·53)	0·67 (0·15-1·36)	0·06 (-0·01-0·23)	0·04 (-0·08-0·18)
Bolivia	1·18 (0·9-1·49)	1·02 (0·2-2·4)	-0·08 (-0·16-0·01)	0·08 (-0·07-0·22)	0·47 (0·36-0·59)	0·54 (0·37-0·78)	0·11 (-0·06-0·34)
Bosnia and Herzegovina	1·21 (0·34-2·23)	-0·06 (-0·6-0·49)	0·08 (-0·08-0·25)	-0·06 (-0·58-0·46)	-0·3 (-1·19-0·46)	0·52 (-0·9-1·98)	0·25 (-0·5-1·14)
Botswana	0·77 (0·42-1·2)	0·26 (-0·49-1·45)	0·16 (-0·18-0·51)	0·57 (0·39-0·81)	1 (0·63-1·45)	0·04 (-0·01-0·1)	0·37 (0·17-0·69)
Brazil	0·86 (0·65-1·07)	2·55 (1·88-3·32)	-0·16 (-0·34-0·01)	0·06 (-0·05-0·16)	1·04 (0·79-1·31)	0·41 (0·32-0·5)	0·06 (0·04-0·1)
Brunei	0·53 (-0·56-1·62)	0·33 (-1·26-1·94)	0·05 (-0·9-0·96)	0·17 (-0·49-0·87)	0·24 (0·02-0·5)	0·03 (-0·05-0·14)	0·07 (-0·04-0·24)
Bulgaria	0·57 (0·16-0·99)	-0·07 (-0·73-0·54)	0·16 (-0·04-0·39)	-0·03 (-0·23-0·16)	-0·15 (-0·55-0·22)	0·78 (0·05-1·61)	1·08 (-0·3-2·8)
Burkina Faso	0·09 (0·07-0·11)	0·2 (-0·68-1·57)	0·19 (0·1-0·3)	0·2 (0·15-0·27)	0·38 (0·32-0·45)	0·02 (0·02-0·04)	0·07 (0·05-0·11)
Burundi	0·41 (0·33-0·52)	0·15 (-0·52-1·13)	0·22 (0·12-0·35)	0·27 (0·21-0·37)	0·36 (0·3-0·45)	0·02 (0·01-0·03)	0·02 (0·01-0·04)
Cambodia	0·16 (0·1-0·21)	0·1 (-0·96-1·25)	0·04 (-0·1-0·19)	0·07 (0·01-0·12)	0·12 (0·09-0·15)	0·01 (0-0·01)	0 (0-0·01)
Cameroon	0·37 (0·31-0·44)	0·08 (-0·22-0·55)	0·27 (-0·39-0·99)	0·53 (0·43-0·66)	0·51 (0·43-0·6)	0·06 (-0·03-0·18)	0·1 (0·07-0·14)
Canada	0·03 (-0·11-0·2)	-0·45 (-0·64--0·25)	0·04 (-0·03-0·12)	-0·24 (-0·47-0)	0·04 (-0·42-0·52)	0·21 (-0·1-0·54)	0·01 (-0·06-0·1)
Cape Verde	0·59 (0·29-0·93)	0·16 (-0·44-1·12)	0·16 (-0·29-0·67)	1·08 (0·71-1·54)	0·75 (0·46-1·1)	0·06 (-0·03-0·17)	0·25 (0·12-0·47)
Central African Republic	2·43 (2·02-2·87)	0·13 (-0·49-1·17)	0·25 (-0·49-1·05)	0·39 (0·25-0·57)	0·15 (0·11-0·21)	0·05 (-0·04-0·18)	0·17 (0·08-0·33)
Chad	1·03 (0·87-1·21)	0·11 (-0·39-0·92)	0·17 (0·09-0·25)	0·31 (0·24-0·4)	0·33 (0·27-0·39)	0·03 (0·02-0·05)	0·15 (0·1-0·22)
Chile	0·23 (0·12-0·44)	3·23 (1·94-5·2)	-0·09 (-0·21-0·01)	0·15 (-0·58-0·94)	1·07 (0·61-1·82)	0·62 (0·02-1·55)	0·26 (0·13-0·47)
China	0·67 (0·44-0·91)	0·05 (0·01-0·09)	0·02 (-0·05-0·1)	0·19 (-0·44-0·87)	0·18 (0·13-0·23)	0·04 (-0·06-0·19)	0·05 (-0·01-0·14)
Colombia	1·18 (0·9-1·48)	4·74 (3·33-6·23)	-0·22 (-0·46-0·02)	0·12 (-0·1-0·33)	0·3 (0·23-0·38)	0·36 (0·24-0·52)	0·19 (0·11-0·28)

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Comoros	0·77 (0·63-0·94)	0·16 (-0·42-1·08)	0·38 (0·19-0·57)	0·74 (0·58-0·94)	0·73 (0·6-0·89)	0·04 (0·03-0·07)	0·4 (0·26-0·62)
Congo	0·62 (0·5-0·77)	0·63 (-1·06-2·77)	0·46 (0·24-0·7)	0·06 (0·04-0·08)	0·54 (0·45-0·64)	0·03 (0·02-0·05)	0·52 (0·37-0·73)
Costa Rica	0·89 (0·02-1·9)	2·32 (0·67-4·21)	-0·39 (-1·45-0·58)	0·11 (-0·47-0·72)	0·85 (0·25-1·55)	0·59 (-0·03-1·55)	0·13 (-0·05-0·37)
Cote d'Ivoire	0·38 (0·3-0·49)	0·14 (-0·46-1·02)	0·35 (0·19-0·53)	0·33 (0·26-0·44)	0·41 (0·34-0·5)	0·03 (0·02-0·04)	0·21 (0·14-0·32)
Croatia	0·06 (0·02-1·09)	-0·07 (-1·39-1·02)	0·28 (-0·07-0·76)	-0·06 (-0·7-0·61)	-0·25 (-1·01-0·39)	0·45 (-0·89-1·91)	0·3 (-0·56-1·25)
Cuba	1·42 (0·15-2·68)	2·14 (0·62-3·96)	-0·06 (-0·2-0·09)	0·13 (-0·52-0·8)	0·82 (0·28-1·46)	0·57 (0·03-1·37)	0·11 (-0·04-0·33)
Cyprus	0·05 (-0·2-0·33)	-0·18 (-0·37-0·08)	0·05 (-0·04-0·17)	-0·15 (-0·48-0·16)	0·01 (-0·19-0·23)	0·19 (-1·31-1·7)	0·03 (-0·46-0·51)
Czech Republic	0·51 (-0·33-1·41)	-0·06 (-1·65-1·59)	0·17 (-0·18-0·58)	-0·06 (-0·62-0·5)	-0·1 (-0·44-0·17)	0·34 (-0·74-1·54)	0·32 (-0·64-1·41)
Democratic Republic of the Congo	0·35 (0·29-0·42)	0·67 (-1·44-3·17)	0·29 (0·15-0·43)	0·07 (0·05-0·09)	0·48 (0·4-0·58)	0·02 (0·01-0·03)	0·14 (0·1-0·21)
Denmark	0·05 (-0·65-0·76)	-0·57 (-2·14-0·95)	0·08 (-0·4-0·61)	-0·14 (-0·48-0·16)	0·06 (-0·81-0·94)	0·19 (-1·12-1·48)	0·04 (-0·57-0·62)
Djibouti	0·57 (0·29-0·91)	0·51 (-1·06-2·59)	0·23 (-0·35-0·83)	1·6 (1·09-2·22)	0·55 (0·35-0·79)	0·06 (-0·03-0·19)	0·18 (0·09-0·34)
Dominica	0·29 (0-0·62)	0·78 (0·15-1·93)	-0·09 (-0·35-0·14)	0·06 (-0·26-0·38)	0·79 (0·23-1·44)	0·53 (-0·01-1·29)	0·12 (-0·05-0·38)
Dominican Republic	0·6 (0·45-0·76)	1·94 (0·5-3·77)	-0·09 (-0·18-0·01)	0·07 (-0·06-0·21)	0·58 (0·44-0·74)	0·41 (0·28-0·6)	0·04 (0·02-0·07)
Ecuador	0·64 (0·38-1·08)	0·27 (0·16-0·49)	-0·1 (-0·26-0·01)	0·06 (-0·06-0·19)	0·44 (0·32-0·6)	0·23 (0·17-0·31)	0·14 (0·07-0·27)
Egypt	0·21 (0·06-0·37)	1·13 (0·39-2·98)	0·08 (-0·01-0·17)	0·13 (-0·09-0·34)	0·16 (0·04-0·28)	0·04 (-0·05-0·12)	0·1 (0·05-0·16)
El Salvador	0·59 (-0·05-1·37)	2·45 (0·47-4·58)	-0·06 (-0·24-0·12)	0·07 (-0·38-0·53)	0·55 (0·13-1·07)	0·57 (-0·08-1·46)	0·12 (-0·06-0·38)
Equatorial Guinea	0·71 (0·35-1·13)	0·12 (-0·33-0·79)	0·34 (-0·53-1·21)	0·21 (0·14-0·3)	0·46 (0·28-0·67)	0·06 (-0·03-0·18)	0·19 (0·09-0·35)
Eritrea	0·72 (0·33-1·22)	0·14 (-0·4-0·98)	0·35 (-0·58-1·31)	0·58 (0·38-0·83)	0·68 (0·39-1·02)	0·05 (-0·03-0·16)	0·2 (0·1-0·39)
Estonia	0·62 (0·17-1·11)	-0·18 (-1·63-1·27)	0·22 (-0·05-0·53)	-0·08 (-0·54-0·41)	-0·44 (-1·53-0·66)	1·11 (0·07-2·18)	0·48 (-0·13-1·22)
Ethiopia	0·35 (0·29-0·42)	0·57 (-1·35-3·1)	0·03 (0·02-0·05)	0·49 (0·4-0·6)	0·64 (0·56-0·75)	0·12 (0·08-0·18)	0·19 (0·12-0·3)
Federated States of Micronesia	0·23 (-0·3-0·79)	0·28 (-1·26-1·86)	0·05 (-0·79-0·9)	0·16 (-0·51-0·83)	0·13 (0-0·27)	0·04 (-0·12-0·27)	0·05 (-0·03-0·18)
Fiji	0·13 (-0·16-0·44)	0·12 (-0·7-1·03)	0·03 (-0·47-0·55)	0·23 (-0·63-1·13)	0·24 (0·01-0·5)	0·04 (-0·08-0·21)	0·06 (-0·03-0·22)

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Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Finland	0·05 (-0·16-0·26)	-1·11 (-1·69--0·59)	0·09 (-0·07-0·26)	-0·2 (-0·44-0)	0·06 (-0·76-0·85)	0·22 (-0·11-0·59)	0·03 (-0·16-0·24)
France	0·04 (-0·12-0·21)	-0·59 (-0·87--0·32)	0·07 (-0·05-0·2)	-0·11 (-0·23-0)	0·03 (-0·47-0·54)	0·26 (-0·13-0·66)	0·03 (-0·18-0·26)
Gabon	0·81 (0·66-0·99)	0·19 (-0·34-1·11)	0·2 (0·1-0·3)	0·64 (0·49-0·82)	0·67 (0·57-0·8)	0·04 (0·02-0·05)	0·12 (0·08-0·18)
Georgia	0·12 (0·03-0·29)	-0·06 (-2·01-1·85)	0·43 (-0·5-1·44)	-0·05 (-0·55-0·44)	-0·1 (-0·46-0·16)	0·57 (-1·19-2·44)	0·19 (-0·42-0·96)
Germany	0·04 (-0·12-0·2)	-1·17 (-1·73--0·64)	0·04 (-0·03-0·12)	-0·23 (-0·47-0)	0·03 (-0·39-0·43)	0·17 (-0·08-0·43)	0·02 (-0·12-0·17)
Ghana	0·42 (0·35-0·49)	0·07 (-0·04-0·36)	0·59 (0·31-0·87)	0·73 (0·6-0·89)	0·38 (0·32-0·45)	0·03 (0·02-0·04)	0·03 (0·02-0·05)
Greece	0·06 (-0·21-0·34)	-0·1 (-0·17--0·05)	0·07 (-0·05-0·21)	-0·16 (-0·49-0·16)	0·02 (-0·28-0·33)	0·21 (-1·17-1·46)	0·03 (-0·56-0·64)
Grenada	0·3 (0-0·65)	0·72 (0·16-1·93)	-0·13 (-0·48-0·21)	0·1 (-0·47-0·73)	0·5 (0·15-0·91)	0·34 (-0·02-0·92)	0·12 (-0·05-0·37)
Guatemala	0·76 (0·58-0·97)	2·38 (0·25-4·57)	-0·03 (-0·07-0)	0·09 (-0·08-0·26)	0·36 (0·27-0·46)	0·53 (-0·16-1·52)	0·1 (0·05-0·15)
Guinea	0·42 (0·32-0·54)	0·41 (-1·17-2·4)	0·11 (0·06-0·17)	0·28 (0·21-0·37)	0·39 (0·33-0·47)	0·04 (0·02-0·05)	0·09 (0·06-0·14)
Guinea-Bissau	0·63 (0·28-1·1)	0·13 (-0·36-0·96)	0·11 (-0·22-0·48)	0·34 (0·21-0·49)	0·67 (0·38-1·02)	0·05 (-0·03-0·18)	0·16 (0·08-0·32)
Guyana	0·61 (0·45-0·8)	2·77 (0·75-4·75)	-0·23 (-0·48-0·02)	0·09 (-0·07-0·25)	0·86 (0·64-1·12)	0·43 (0·29-0·64)	0·11 (-0·07-0·37)
Haiti	0·2 (0·15-0·26)	1·14 (-0·02-3·06)	-0·11 (-0·22-0·01)	0·02 (-0·02-0·05)	0·4 (0·3-0·51)	0·11 (0·08-0·17)	0·01 (0·01-0·02)
Honduras	0·4 (0·3-0·51)	2·7 (0·62-4·8)	-0·07 (-0·14-0·01)	0·1 (-0·08-0·27)	0·45 (0·34-0·58)	0·48 (0·33-0·7)	0·02 (0·01-0·03)
Hungary	0·18 (0·05-0·32)	-0·03 (-0·27-0·2)	0·08 (-0·02-0·26)	-0·06 (-0·62-0·51)	-0·07 (-0·25-0·1)	0·36 (-0·73-1·54)	0·29 (-0·5-1·22)
Iceland	0·05 (-0·16-0·25)	-0·47 (-0·75--0·24)	0·11 (-0·08-0·31)	-0·19 (-0·61-0·2)	0·05 (-0·72-0·81)	0·22 (-1·25-1·69)	0·03 (-0·56-0·66)
India	0·16 (0·13-0·19)	-0·41 (-1·82--0·09)	0·13 (0·06-0·2)	0·28 (0·22-0·35)	0·61 (0·4-0·83)	0·03 (0·01-0·06)	0·03 (-0·01-0·07)
Indonesia	0·16 (0·1-0·21)	0·26 (-1·32-1·81)	0·04 (-0·08-0·15)	0·14 (0·03-0·25)	0·22 (0·17-0·27)	0·02 (0-0·04)	0·01 (0·01-0·02)
Iran	0·11 (0·03-0·19)	0·78 (0·54-1·08)	0·05 (-0·01-0·1)	0·09 (-0·06-0·22)	0·12 (0·03-0·2)	0·07 (-0·09-0·22)	0·45 (0·24-0·66)
Iraq	0·37 (-0·45-1·27)	4·11 (1·78-6·99)	0·14 (-0·28-0·61)	0·38 (-1·07-1·85)	0·26 (-0·21-0·82)	0·14 (-1·2-1·51)	0·31 (-0·19-0·99)
Ireland	0·03 (-0·1-0·17)	-0·64 (-1·18--0·3)	0·03 (-0·02-0·1)	-0·15 (-0·5-0·17)	0·06 (-0·78-0·93)	0·22 (-1·39-1·91)	0·02 (-0·59-0·6)
Israel	0·86 (0·23-1·49)	9·06 (7·07-10·73)	0·68 (-0·09-1·4)	0·36 (-0·26-0·94)	0·44 (-0·31-1·27)	0·42 (-0·56-1·35)	0·9 (0·48-1·36)

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Italy	0·04 (-0·14-0·23)	-0·38 (-0·56--0·21)	0·15 (-0·1-0·41)	-0·14 (-0·28-0)	0·02 (-0·23-0·26)	0·14 (-0·07-0·35)	0·01 (-0·04-0·06)
Jamaica	0·15 (0·11-0·22)	0·95 (0·6-1·47)	-0·25 (-0·53-0·02)	0·1 (-0·42-0·6)	0·78 (0·53-1·13)	0·48 (-0·04-1·25)	0·11 (-0·06-0·33)
Japan	0·53 (0·36-0·7)	0·15 (0·03-0·27)	0·03 (-0·07-0·13)	0·19 (0·04-0·34)	0·36 (0·28-0·44)	0·05 (0·01-0·09)	0·38 (0·24-0·54)
Jordan	0·36 (0·1-0·63)	3·74 (1·61-6·57)	0·29 (-0·04-0·62)	0·16 (-0·11-0·43)	0·35 (0·08-0·62)	0·08 (-0·82-1·02)	0·22 (0·11-0·36)
Kazakhstan	0·8 (0·23-1·44)	-0·07 (-1·73-1·64)	0·24 (-0·06-0·6)	-0·07 (-0·79-0·66)	-0·1 (-0·36-0·15)	0·56 (-1·22-2·36)	0·17 (-0·05-0·48)
Kenya	0·48 (0·4-0·58)	0·03 (-0·01-0·08)	0·07 (0·04-0·11)	0·25 (0·2-0·33)	1·33 (1·15-1·54)	0·05 (0·03-0·08)	0·12 (0·09-0·17)
Kiribati	0·22 (-0·31-0·75)	0·21 (-1·29-1·92)	0·03 (-0·81-0·83)	0·16 (-0·5-0·84)	0·13 (0-0·28)	0·05 (-0·11-0·29)	0·05 (-0·03-0·19)
Kuwait	0·17 (0·05-0·3)	3·34 (1·16-6·48)	0·37 (-0·05-0·78)	0·26 (-0·7-1·23)	0·64 (-0·36-1·76)	0·12 (-1·18-1·48)	0·43 (-0·25-1·36)
Kyrgyzstan	0·33 (0·09-0·6)	-0·05 (-1·45-1·33)	0·01 (0-0·03)	-0·03 (-0·23-0·16)	-0·06 (-0·23-0·1)	0·1 (0·01-0·23)	0·13 (-0·04-0·34)
Laos	0·25 (0·16-0·35)	0·2 (0·04-0·42)	0·04 (-0·1-0·18)	0·09 (0·02-0·17)	0·21 (0·15-0·3)	0·04 (-0·12-0·27)	0·06 (0·03-0·1)
Latvia	1·24 (0·34-2·29)	-0·13 (-1·34-0·97)	0·25 (-0·06-0·6)	-0·07 (-0·76-0·63)	-0·17 (-0·65-0·26)	0·53 (-0·93-2·08)	0·3 (-0·57-1·34)
Lebanon	0·16 (0·04-0·28)	1·18 (0·9-1·51)	0·06 (-0·01-0·14)	0·1 (-0·07-0·25)	0·27 (0·07-0·48)	0·14 (-0·19-0·46)	0·47 (0·24-0·72)
Lesotho	0·81 (0·67-0·99)	0·14 (-0·33-0·86)	0·07 (0·04-0·11)	0·62 (0·48-0·79)	0·79 (0·66-0·94)	0·04 (0·02-0·06)	0·23 (0·16-0·36)
Liberia	0·71 (0·59-0·85)	0·89 (-1·57-3·55)	0·38 (0·2-0·57)	0·54 (0·43-0·67)	0·44 (0·36-0·53)	0·06 (-0·03-0·18)	0·11 (0·07-0·16)
Libya	0·24 (-0·27-0·8)	1·8 (0·66-4·19)	0·17 (-0·31-0·67)	0·17 (-0·46-0·82)	0·37 (-0·22-1·07)	0·11 (-0·93-1·1)	0·38 (-0·2-1·16)
Lithuania	1·15 (0·33-2·08)	-0·08 (-1·72-1·65)	0·21 (-0·06-0·53)	-0·11 (-1·13-0·92)	-0·03 (-0·71-0·2)	0·43 (-0·95-1·86)	0·33 (-0·67-1·43)
Luxembourg	0·07 (-0·29-0·49)	-1·12 (-2·13--0·08)	0·07 (-0·05-0·24)	-0·33 (-1·05-0·35)	0·02 (-0·34-0·38)	0·23 (-1·34-1·78)	0·02 (-0·52-0·6)
Macedonia	0·42 (-0·24-1·13)	-0·1 (-1·98-1·81)	0·19 (-0·22-0·62)	-0·04 (-0·37-0·31)	-0·22 (-1·19-0·73)	0·47 (-0·95-1·93)	0·26 (-0·49-1·11)
Madagascar	0·84 (0·71-0·97)	0·17 (-0·46-1·19)	0·26 (0·14-0·4)	0·24 (0·19-0·31)	0·44 (0·38-0·52)	0·06 (-0·03-0·17)	0·11 (0·08-0·16)
Malawi	0·47 (0·39-0·56)	0·18 (-0·6-1·42)	0·25 (0·13-0·38)	0·35 (0·29-0·44)	0·37 (0·32-0·44)	0·02 (0·02-0·03)	0·09 (0·06-0·13)
Malaysia	0·12 (0·08-0·17)	0·17 (0·04-0·34)	0·06 (-0·13-0·25)	0·12 (0·02-0·23)	0·15 (0·1-0·2)	0·05 (-0·11-0·28)	0·05 (-0·02-0·18)
The Maldives	1·33 (1·02-1·74)	-2·37 (-7·24--0·52)	0·52 (0·23-0·88)	1·03 (0·76-1·36)	1·1 (0·72-1·54)	0·2 (-0·04-0·75)	0·08 (-0·01-0·2)

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Mali	0·62 (0·52-0·73)	0·25 (-1·06-2·08)	0·35 (0·19-0·53)	0·27 (0·21-0·33)	1 (0·85-1·16)	0·03 (0·02-0·05)	0·14 (0·1-0·19)
Malta	0·05 (-0·16-0·28)	-0·73 (-1·34--0·34)	0·1 (-0·07-0·28)	-0·12 (-0·31-0)	0·04 (-0·52-0·59)	0·14 (-0·07-0·41)	0·03 (-0·51-0·59)
Marshall Islands	0·2 (-0·24-0·7)	0·13 (-0·77-1·12)	0·03 (-0·61-0·69)	0·12 (-0·35-0·6)	0·33 (0·01-0·7)	0·05 (-0·11-0·28)	0·05 (-0·03-0·18)
Mauritania	0·53 (0·23-0·88)	0·8 (-1·63-3·54)	0·21 (-0·41-0·85)	0·65 (0·43-0·91)	0·8 (0·46-1·22)	0·05 (-0·03-0·15)	0·24 (0·11-0·47)
Mauritius	1·35 (0·62-2·73)	1·07 (-0·55-3)	0·31 (0·16-0·49)	1·19 (0·75-1·71)	0·94 (0·58-1·34)	0·05 (-0·01-0·13)	0·48 (0·21-0·97)
Mexico	0·57 (0·43-0·71)	1·15 (0·86-1·44)	-0·04 (-0·09-0)	0·13 (-0·11-0·38)	1·18 (0·91-1·47)	0·67 (0·53-0·8)	0·12 (0·07-0·17)
Moldova	0·76 (0·19-1·7)	-0·1 (-2·11-1·94)	0·22 (-0·3-0·75)	-0·07 (-0·76-0·58)	-0·11 (-0·48-0·18)	0·52 (-1·06-2·2)	0·25 (-0·55-1·17)
Mongolia	0·65 (-0·44-1·81)	-0·02 (-1·25-1·11)	0·12 (-0·16-0·42)	-0·13 (-1·63-1·34)	-0·18 (-1·05-0·65)	0·57 (-1·25-2·37)	0·21 (-0·49-1·05)
Montenegro	1·09 (0·11-2·16)	-0·13 (-1·38-1·03)	0·38 (-0·1-1·06)	-0·07 (-0·73-0·59)	-0·39 (-1·47-0·6)	0·51 (-0·91-1·96)	0·31 (-0·58-1·36)
Morocco	0·18 (0·04-0·42)	3·15 (1·28-6·03)	0·19 (-0·02-0·5)	0·19 (-0·13-0·59)	0·4 (0·09-0·91)	0·04 (-0·06-0·15)	0·34 (0·15-0·72)
Mozambique	0·61 (0·5-0·75)	0·13 (-0·52-1·03)	0·27 (0·14-0·4)	0·85 (0·68-1·06)	0·35 (0·28-0·43)	0·04 (0·03-0·06)	0·08 (0·06-0·13)
Myanmar	0·55 (-0·86-2·01)	0·33 (-1·46-2·21)	0·06 (-1·56-1·66)	0·23 (-0·76-1·21)	0·44 (-0·01-0·96)	0·03 (-0·08-0·2)	0·06 (-0·03-0·2)
Namibia	0·73 (0·62-0·85)	0·21 (-0·39-1·28)	0·15 (0·08-0·23)	0·68 (0·56-0·83)	0·88 (0·74-1·03)	0·21 (0·13-0·32)	0·21 (0·15-0·31)
Nepal	0·62 (0·49-0·77)	-0·1 (-0·52--0·02)	0·11 (0·05-0·19)	0·39 (0·3-0·51)	0·35 (0·23-0·49)	0·03 (0·01-0·06)	0·02 (0-0·06)
Netherlands	0·04 (-0·12-0·2)	-0·44 (-0·65--0·24)	0·03 (-0·02-0·08)	-0·1 (-0·2-0)	0·03 (-0·35-0·41)	0·21 (-0·1-0·53)	0·07 (-0·38-0·55)
New Zealand	0·04 (-0·14-0·23)	-0·62 (-0·96--0·33)	0·07 (-0·33-0·47)	-0·18 (-0·56-0·51)	0·04 (-0·46-0·51)	0·27 (-1·51-2·09)	0·03 (-0·53-0·62)
Nicaragua	0·45 (-0·09-1·08)	2·48 (0·5-4·63)	-0·09 (-0·4-0·19)	0·1 (-0·48-0·71)	0·64 (0·14-1·22)	0·35 (-0·07-0·99)	0·11 (-0·07-0·35)
Niger	0·13 (0·1-0·16)	0·1 (-0·51-1·11)	0·04 (0·02-0·06)	0·19 (0·15-0·25)	0·8 (0·66-0·95)	0·04 (0·02-0·06)	0·31 (0·22-0·44)
Nigeria	0·59 (0·51-0·68)	0·17 (-0·5-1·33)	0·22 (0·12-0·32)	0·3 (0·25-0·36)	0·39 (0·33-0·46)	0·05 (0·03-0·07)	0·12 (0·08-0·16)
Norway	0·07 (-0·22-0·37)	-0·52 (-0·95--0·24)	0·15 (-0·1-0·41)	-0·18 (-0·62-0·22)	0·03 (-0·44-0·5)	0·2 (-1·4-1·82)	0·03 (-0·55-0·7)
Oman	0·29 (-0·44-1·08)	3·34 (1·27-6·43)	0·17 (-0·46-0·86)	0·22 (-0·69-1·12)	0·4 (-0·32-1·25)	0·09 (-1·08-1·36)	0·37 (-0·32-1·31)
Pakistan	1·26 (1·02-1·55)	-0·9 (-3·91--0·2)	0·06 (0·03-0·1)	0·82 (0·62-1·06)	0·48 (0·31-0·66)	0·04 (0·02-0·09)	0·02 (0-0·06)

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Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Palestine	0·26 (-0·33-0·92)	2·3 (0·86-4·91)	0·17 (-0·34-0·73)	0·17 (-0·51-0·92)	0·41 (-0·3-1·21)	0·09 (-0·98-1·17)	0·37 (-0·26-1·25)
Panama	0·89 (0·02-1·84)	2·47 (0·8-4·32)	-0·13 (-0·51-0·21)	0·05 (-0·22-0·31)	0·69 (0·2-1·29)	0·49 (-0·03-1·27)	0·14 (-0·08-0·43)
Papua New Guinea	0·59 (-0·99-2·16)	0·06 (-0·66-0·93)	0 (0-0)	0·02 (-0·05-0·09)	0·05 (-0·01-0·1)	0·05 (-0·14-0·29)	0·04 (-0·03-0·17)
Paraguay	1·33 (0·01-2·6)	1·79 (0·39-3·75)	-0·06 (-0·24-0·12)	0·09 (-0·48-0·7)	0·47 (0·13-0·88)	1·06 (-0·02-2·42)	0·08 (-0·05-0·26)
Peru	1·31 (0·99-1·65)	1·83 (0·47-3·65)	-0·24 (-0·89-0·37)	0·1 (-0·09-0·29)	0·43 (0·32-0·54)	1·01 (0·03-2·29)	0·07 (0·04-0·1)
The Philippines	0·15 (0·1-0·21)	0·45 (0·1-0·84)	0·02 (-0·04-0·07)	0·09 (0·02-0·17)	0·49 (0·37-0·61)	0·02 (0-0·03)	0·03 (0·02-0·05)
Poland	0·56 (0·17-0·97)	-0·14 (-1·31-1·02)	0·14 (-0·04-0·31)	-0·06 (-0·4-0·27)	-0·16 (-0·58-0·23)	0·8 (0·05-1·51)	0·14 (-0·04-0·31)
Portugal	0·05 (-0·17-0·29)	-0·31 (-0·46--0·17)	0·14 (-0·1-0·37)	-0·17 (-0·35-0)	0·03 (-0·41-0·49)	0·13 (-0·06-0·32)	0·03 (-0·17-0·24)
Qatar	0·24 (-0·42-0·94)	2·54 (0·87-5·48)	0·16 (-0·5-0·93)	0·17 (-0·69-1·03)	0·34 (-0·33-1·05)	0·1 (-1·33-1·49)	0·36 (-0·38-1·39)
Romania	0·57 (0·16-1·08)	-0·11 (-0·98-0·85)	0·3 (-0·07-0·76)	-0·12 (-0·78-0·6)	-0·17 (-0·6-0·27)	1·3 (0·08-2·55)	0·2 (-0·06-0·53)
Russia	1·34 (0·37-2·35)	-0·12 (-1·16-0·84)	0·25 (-0·06-0·58)	-0·09 (-0·99-0·8)	-0·2 (-0·78-0·29)	0·44 (-1·01-2·01)	0·29 (-0·67-1·39)
Rwanda	0·16 (0·13-0·2)	0·05 (-0·2-0·46)	0·17 (0·09-0·26)	0·15 (0·11-0·19)	0·4 (0·34-0·48)	0·02 (0·01-0·03)	0·05 (0·03-0·08)
Saint Lucia	0·51 (0·01-1·13)	0·73 (0·14-1·93)	-0·1 (-0·36-0·14)	0·04 (-0·18-0·27)	0·54 (0·17-0·99)	0·31 (-0·02-0·84)	0·12 (-0·06-0·38)
Saint Vincent and the Grenadines	0·72 (-0·01-1·54)	1·22 (0·26-2·87)	-0·17 (-0·64-0·29)	0·05 (-0·23-0·34)	0·8 (0·22-1·45)	0·5 (0-1·27)	0·12 (-0·05-0·37)
Samoa	0·18 (-0·27-0·66)	0·21 (-1·14-1·65)	0·02 (-0·59-0·68)	0·03 (-0·08-0·14)	0·7 (-0·02-1·54)	0·07 (-0·16-0·37)	0·06 (-0·04-0·23)
Sao Tome and Principe	0·21 (0·16-0·27)	0·5 (-1·13-2·64)	0·47 (0·25-0·71)	0·23 (0·18-0·3)	1·06 (0·85-1·32)	0·06 (-0·03-0·17)	0·44 (0·3-0·65)
Saudi Arabia	0·23 (-0·25-0·75)	5·5 (2·8-7·94)	0·24 (-0·42-1)	0·24 (-0·63-1·13)	0·25 (-0·14-0·72)	0·11 (-0·95-1·19)	0·4 (-0·21-1·22)
Senegal	0·24 (0·2-0·28)	0·51 (-1·26-2·95)	0·29 (0·15-0·43)	0·16 (0·13-0·2)	0·22 (0·19-0·26)	0·04 (0·03-0·06)	0·26 (0·19-0·37)
Serbia	0·6 (0·17-1·23)	-0·07 (-0·75-0·55)	0·12 (-0·03-0·32)	-0·05 (-0·42-0·27)	-0·15 (-0·6-0·23)	0·4 (0·02-0·98)	0·24 (-0·51-1·12)
Seychelles	0·53 (0·44-0·64)	0·36 (-0·18-1·02)	1 (0·53-1·45)	0·6 (0·39-0·88)	0·6 (0·47-0·75)	0·09 (0·06-0·13)	0·22 (0·11-0·44)
Sierra Leone	0·31 (0·26-0·37)	1·02 (-1·98-4·09)	0·32 (0·17-0·47)	0·39 (0·32-0·48)	0·44 (0·37-0·52)	0·03 (0·02-0·05)	0·07 (0·05-0·11)
Singapore	0·27 (0·18-0·37)	0·15 (0·03-0·28)	0·03 (-0·07-0·13)	0·15 (-0·47-0·81)	0·23 (0·17-0·3)	0·02 (-0·04-0·11)	0·06 (-0·02-0·19)

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Slovakia	0·27 (0·08-0·5)	-0·13 (-1·24-0·94)	0·06 (-0·02-0·16)	-0·02 (-0·15-0·11)	-0·1 (-0·39-0·15)	0·27 (0·02-0·54)	0·14 (-0·04-0·35)
Slovenia	0·45 (0·13-0·92)	-0·08 (-0·82-0·59)	0·25 (-0·06-0·66)	-0·08 (-1·06-0·84)	-0·19 (-0·74-0·29)	0·39 (-0·92-1·8)	0·32 (-0·66-1·44)
Solomon Islands	0·32 (-0·4-1·11)	0·23 (-1·3-1·74)	0·02 (-0·41-0·47)	0·06 (-0·2-0·33)	0·46 (-0·01-0·99)	0·05 (-0·13-0·28)	0·05 (-0·04-0·18)
South Africa	3·49 (3·07-3·92)	0·48 (-0·25-1·27)	0·03 (0·02-0·05)	1·32 (0·9-1·84)	1·11 (0·94-1·31)	0·04 (-0·01-0·12)	0·35 (0·17-0·66)
South Korea	0·25 (0·17-0·33)	0·02 (0-0·04)	0·01 (-0·03-0·06)	0·1 (0·02-0·17)	0·55 (0·43-0·67)	0·08 (0·02-0·14)	0·15 (0·1-0·2)
South Sudan	0·68 (0·31-1·13)	0·16 (-0·42-1·05)	0·3 (-0·52-1·15)	0·51 (0·33-0·73)	0·63 (0·37-0·96)	0·05 (-0·03-0·16)	0·19 (0·09-0·37)
Spain	0·04 (-0·15-0·25)	-0·61 (-1·12-0·29)	0·16 (-0·11-0·47)	-0·18 (-0·56-0·21)	0·04 (-0·52-0·6)	0·23 (-1·32-1·68)	0·02 (-0·41-0·5)
Sri Lanka	2·2 (1·78-2·7)	-0·81 (-1·45-0·36)	0·33 (0·15-0·61)	0·76 (0·51-1·15)	1 (0·66-1·39)	0·07 (-0·01-0·25)	0·05 (-0·01-0·13)
Sudan	0·53 (0·23-0·88)	0·2 (-0·6-1·58)	0·3 (-0·56-1·27)	0·55 (0·36-0·79)	1·12 (0·89-1·42)	0·05 (-0·03-0·17)	0·18 (0·08-0·36)
Suriname	0·86 (-0·02-1·83)	2·37 (0·62-4·25)	-0·14 (-0·52-0·23)	0·07 (-0·31-0·45)	0·53 (0·13-1)	0·61 (-0·06-1·55)	0·11 (-0·06-0·34)
Swaziland	0·66 (0·55-0·81)	0·08 (-0·23-0·58)	0·01 (0·01-0·02)	0·19 (0·14-0·24)	0·67 (0·55-0·82)	0·02 (-0·01-0·06)	0·3 (0·21-0·45)
Sweden	0·05 (-0·18-0·3)	-0·62 (-0·93-0·33)	0·09 (-0·06-0·23)	-0·22 (-0·44-0)	0·04 (-0·54-0·61)	0·16 (-0·08-0·41)	0·04 (-0·23-0·33)
Switzerland	0·04 (-0·13-0·21)	-0·39 (-0·61-0·2)	0·1 (-0·07-0·27)	-0·16 (-0·33-0)	0·02 (-0·24-0·28)	0·2 (-0·1-0·5)	0·03 (-0·18-0·24)
Syria	0·26 (-0·38-0·9)	2·32 (0·85-4·87)	0·17 (-0·41-0·78)	0·18 (-0·55-0·94)	0·38 (-0·33-1·16)	0·1 (-1·06-1·31)	0·37 (-0·25-1·24)
Taiwan	0·43 (0·29-0·58)	0·18 (0·04-0·33)	0·02 (-0·04-0·08)	0·16 (-0·42-0·76)	0·23 (0·17-0·3)	0·04 (-0·07-0·19)	0·06 (-0·02-0·2)
Tajikistan	0·43 (0·13-0·79)	-0·05 (-2·3-2·09)	0·05 (-0·01-0·13)	-0·04 (-0·3-0·21)	-0·08 (-0·29-0·12)	0·07 (0-0·16)	0·18 (-0·06-0·45)
Tanzania	0·87 (0·75-1·02)	0·09 (-0·29-0·76)	0·18 (0·09-0·27)	0·27 (0·22-0·33)	0·56 (0·48-0·66)	0·03 (0·02-0·05)	0·1 (0·06-0·16)
Thailand	0·23 (0·13-0·39)	0·1 (-0·63-0·87)	0·03 (-0·62-0·67)	0·14 (-0·47-0·77)	0·34 (0·19-0·58)	0·04 (-0·08-0·21)	0·04 (-0·02-0·13)
The Bahamas	0·58 (-0·01-1·26)	1·14 (0·22-2·78)	-0·11 (-0·44-0·19)	0·18 (-0·85-1·14)	0·84 (0·21-1·56)	0·55 (-0·06-1·42)	0·15 (-0·08-0·47)
The Gambia	0·19 (0·15-0·25)	0·78 (-1·76-3·48)	0·25 (0·13-0·38)	0·45 (0·34-0·58)	0·19 (0·15-0·23)	0·04 (0·02-0·06)	0·04 (0·02-0·06)
Timor-Leste	0·13 (0·08-0·17)	0·23 (-1·36-1·84)	0·02 (-0·04-0·07)	0·06 (0·01-0·11)	0·24 (0·18-0·31)	0·05 (-0·12-0·27)	0·01 (0·01-0·02)
Togo	0·4 (0·32-0·51)	0·52 (-1·05-2·62)	0·35 (0·19-0·53)	0·37 (0·28-0·49)	0·14 (0·11-0·19)	0·03 (0·02-0·05)	0·07 (0·04-0·12)

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Tonga	0·21 (-0·45-0·91)	0·13 (-1·21-1·54)	0·04 (-0·84-0·93)	0·12 (-0·52-0·79)	0·37 (-0·09-0·89)	0·06 (-0·19-0·37)	0·05 (-0·06-0·23)
Trinidad and Tobago	0·8 (-0·12-1·84)	2·24 (0·42-4·46)	-0·14 (-0·28-0·01)	0·05 (-0·28-0·4)	0·68 (0·12-1·32)	0·32 (0·2-0·5)	0·13 (-0·08-0·45)
Tunisia	0·26 (0·07-0·53)	0·11 (0·06-0·2)	0·2 (-0·03-0·5)	0·18 (-0·13-0·52)	0·53 (0·12-1·26)	0·01 (-0·02-0·05)	0·3 (-0·14-0·98)
Turkey	0·34 (0·09-0·66)	0·56 (0·36-0·88)	0·03 (0-0·09)	0·09 (-0·07-0·29)	0·52 (0·11-1·1)	0·18 (-0·26-0·63)	0·7 (0·32-1·34)
Turkmenistan	0·68 (-0·56-1·97)	-0·1 (-2·22-1·99)	0·09 (-0·12-0·31)	-0·05 (-0·52-0·43)	-0·13 (-0·82-0·52)	0·61 (-1·35-2·55)	0·21 (-0·53-1·04)
Uganda	0·38 (0·32-0·44)	0·13 (-0·45-1·01)	0·08 (0·04-0·12)	0·3 (0·25-0·37)	0·83 (0·7-0·97)	0·02 (0·01-0·03)	0·06 (0·04-0·08)
Ukraine	0·31 (0·08-0·7)	-0·08 (-2·04-1·83)	0·23 (-0·3-0·82)	-0·07 (-0·84-0·68)	-0·14 (-0·52-0·21)	0·43 (-1·13-1·9)	0·28 (-0·59-1·27)
United Arab Emirates	0·2 (-0·29-0·74)	3·69 (1·24-7·16)	0·21 (-0·55-1·03)	0·17 (-0·59-0·98)	0·37 (-0·34-1·14)	0·11 (-1·34-1·61)	0·38 (-0·35-1·34)
United Kingdom	0·03 (-0·11-0·18)	-0·64 (-0·97--0·34)	0·07 (-0·05-0·19)	-0·18 (-0·61-0·22)	0·04 (-0·45-0·51)	0·23 (-1·41-1·88)	0·03 (-0·49-0·58)
United States	0·03 (-0·09-0·15)	-0·46 (-0·65--0·26)	0·03 (-0·02-0·07)	-0·19 (-0·71-0·3)	0·03 (-0·4-0·49)	0·21 (-0·1-0·54)	0·01 (-0·03-0·06)
Uruguay	0·84 (0·05-1·73)	2·39 (0·76-4·2)	-0·13 (-0·48-0·19)	0·13 (-0·48-0·74)	0·91 (0·31-1·64)	0·52 (0·01-1·29)	0·15 (-0·06-0·45)
Uzbekistan	0·86 (0·25-1·54)	-0·08 (-2·11-1·88)	0·35 (-0·48-1·21)	-0·07 (-0·96-0·82)	-0·1 (-0·39-0·16)	0·52 (-1·23-2·37)	0·22 (-0·06-0·55)
Vanuatu	0·29 (-0·4-1·05)	0·09 (-0·65-0·91)	0·02 (-0·59-0·62)	0·12 (-0·38-0·66)	0·3 (-0·02-0·64)	0·05 (-0·13-0·28)	0·05 (-0·03-0·19)
Venezuela	0·52 (-0·03-1·12)	1·89 (0·44-3·71)	-0·06 (-0·24-0·11)	0·06 (-0·27-0·39)	0·92 (0·26-1·68)	0·57 (-0·04-1·49)	0·13 (-0·05-0·4)
Vietnam	0·33 (0·19-0·53)	0·09 (-0·64-0·9)	0·04 (-0·09-0·18)	0·22 (-0·66-1·19)	0·22 (0·15-0·3)	0·04 (-0·09-0·23)	0·04 (-0·03-0·14)
Yemen	0·15 (0·04-0·27)	3·09 (0·91-6·67)	0·06 (-0·01-0·13)	0·04 (-0·03-0·11)	0·32 (0·08-0·58)	0·04 (-0·06-0·15)	0·11 (0·05-0·19)
Zambia	1·3 (1·12-1·51)	0·32 (-0·74-1·91)	0·29 (0·16-0·42)	0·58 (0·48-0·69)	0·41 (0·35-0·47)	0·02 (0·02-0·04)	0·09 (0·06-0·12)
Zimbabwe	0·89 (0·76-1·03)	0·21 (-0·44-1·22)	0·12 (0·07-0·18)	0·76 (0·63-0·91)	0·89 (0·77-1·03)	0·03 (0·02-0·05)	0·4 (0·29-0·55)

Table S17. National absolute change (servings/week) in ASF intake in children and adults from 185 countries between 1990 and 2018.

	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
World	1·2 (1·06-1·35)	0·5 (0·27-0·71)	0·44 (0·37-0·51)	1·18 (0·94-1·5)	0·63 (0·57-0·69)	0·14 (0·1-0·19)	0·02 (0-0·04)
Southeast and East Asia	4·12 (3·66-4·64)	0.74 (0·46-1·08)	1·3 (1·1-1·51)	2·89 (2·14-3·91)	0.53 (0·43-0·65)	0·02 (-0·02-0·09)	0·02 (-0·01-0·06)
Central/Eastern Europe and Central Asia	-1·25 (-1·63--0·92)	1·32 (0·43-2·18)	0·22 (0·15-0·3)	0·36 (0·15-0·6)	0·94 (0·78-1·14)	0·68 (0·24-1·22)	0·11 (-0·16-0·41)
High-Income Countries	-0·55 (-0·59--0·51)	0·52 (0·24-0·83)	0·21 (0·18-0·23)	0·13 (0-0·29)	0·27 (0·23-0·33)	0·49 (0·31-0·67)	0·04 (-0·01-0·1)
Latin America and the Caribbean	1·29 (1·19-1·41)	1·4 (0·89-1·92)	0·19 (0·13-0·24)	1·4 (1·28-1·53)	1·95 (1·79-2·13)	0·34 (0·27-0·44)	0·02 (0-0·04)
Middle East and Northern Africa	-0·51 (-0·61--0·38)	-0·12 (-0·42-0·31)	0·44 (0·31-0·61)	1·19 (0·99-1·39)	0·1 (-0·03-0·27)	0·18 (0·05-0·35)	0·01 (-0·05-0·09)
South Asia	-0·04 (-0·07--0·02)	-0·06 (-0·5-0·18)	0·16 (0·13-0·19)	0·29 (0·24-0·34)	0·9 (0·81-1·01)	0 (0-0)	0 (0-0)
Sub-Saharan Africa	0·06 (0·05-0·07)	0·35 (0·03-0·89)	-0·54 (-0·64--0·45)	0·01 (-0·01-0·03)	-0·03 (-0·05--0·01)	0·01 (0-0·01)	0 (0-0·01)
Afghanistan	-2·24 (-3·61--1·4)	-0·09 (-0·77-0·2)	0 (-0·06-0·06)	0·22 (0·08-0·42)	-0·04 (-0·41-0·33)	-0·04 (-0·14-0·01)	-0·03 (-0·19-0·1)
Albania	4·21 (3·59-4·91)	6·26 (4·2-8·28)	0·87 (0·68-1·13)	9·02 (7·54-10·81)	1·12 (0·92-1·36)	0·68 (0·46-1)	0·16 (-0·36-0·75)
Algeria	0·96 (0·59-1·5)	-0·5 (-1·89-0·18)	-0·07 (-0·13--0·04)	1·41 (0·88-2·08)	0·16 (0·08-0·31)	1·99 (0·96-3·47)	0·25 (-0·12-0·74)
Angola	0·05 (-0·16-0·26)	-0·37 (-1·24--0·1)	-3·82 (-4·94--2·86)	-0·16 (-0·2--0·12)	-2·39 (-2·94--1·95)	0·04 (-0·04-0·14)	0·01 (-0·08-0·12)
Antigua and Barbuda	-0·22 (-0·55-0·1)	0·7 (-0·53-2·07)	1·93 (1·34-2·82)	0·54 (0·3-0·85)	-0·37 (-0·76--0·02)	0·68 (0·31-1·33)	0·09 (-0·05-0·27)
Argentina	0·44 (0·37-0·53)	1·34 (1·05-1·67)	0·11 (0·09-0·15)	2·92 (2·52-3·39)	0·08 (0·06-0·1)	1·29 (1·04-1·56)	0·09 (0·04-0·16)
Armenia	2·78 (2·2-3·49)	10·68 (7·99-12·82)	2·62 (1·78-3·86)	3·71 (2·95-4·68)	0·2 (0·12-0·3)	2·3 (1·53-3·46)	0·95 (0·12-2·09)
Australia	-2·01 (-2·34--1·71)	0·56 (0·39-0·75)	0·42 (0·34-0·51)	-0·39 (-0·91-0·09)	0·7 (0·58-0·85)	0·47 (-1·04-2·02)	0·04 (-0·59-0·68)
Austria	-1·73 (-2·09--1·42)	0·45 (-0·39-1·61)	0·84 (0·64-1·09)	0·65 (0·37-1·03)	0·17 (0·14-0·2)	1·53 (0·5-2·71)	0·17 (-0·19-0·61)
Azerbaijan	3·92 (3·32-4·61)	2·08 (-0·06-4·51)	-0·18 (-0·24--0·13)	1·7 (1·4-2·04)	0·65 (0·53-0·8)	0·66 (-0·39-1·77)	0·04 (0·02-0·07)
Bahrain	0·09 (-0·45-0·65)	0·74 (-0·47-2·33)	1·33 (0·84-2·05)	1·13 (0·59-1·85)	0·61 (0·12-1·24)	0·36 (-0·62-1·49)	0·08 (-0·63-0·79)
Bangladesh	0·01 (0·01-0·02)	-0·01 (-0·03-0·01)	1·01 (0·84-1·18)	0·69 (0·56-0·83)	0·06 (0·04-0·09)	0 (0-0)	0 (0-0)
Barbados	-11·77 (-12·18--10·47)	-0·07 (-0·42-0·22)	1·49 (0·98-2·2)	5·85 (4·5-7·43)	-0·44 (-0·63--0·31)	0·18 (-0·11-0·58)	0·03 (-0·13-0·2)

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	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Belarus	-0·39 (-0·69--0·22)	1·23 (-0·25-2·92)	1·48 (1·11-1·99)	-0·28 (-0·87-0·28)	0·09 (0·05-0·16)	-2·91 (-4·58--1·5)	-0·46 (-1·28-0·18)
Belgium	-0·71 (-0·83--0·6)	-0·16 (-0·37-0·02)	-0·49 (-0·59--0·4)	-0·03 (-0·05--0·02)	0·04 (0·03-0·05)	1·6 (1·04-2·24)	0·03 (0·01-0·07)
Belize	2·16 (1·08-3·25)	2·56 (0·85-4·47)	1·25 (0·88-1·78)	-0·27 (-0·85-0·27)	0·14 (-0·4-0·7)	-0·01 (-0·53-0·51)	0 (-0·22-0·21)
Benin	-0·89 (-1·05--0·75)	0·17 (-1·26-1·74)	0·41 (0·34-0·5)	-0·17 (-0·21--0·13)	0·1 (0·09-0·12)	0 (0-0)	0 (0-0)
Bhutan	-0·57 (-1·05--0·29)	0 (-0·24-0·24)	1·29 (0·82-2·02)	1·26 (0·87-1·81)	1·14 (0·73-1·7)	-0·05 (-0·17-0·01)	-0·02 (-0·11-0·06)
Bolivia	1·34 (1·22-1·48)	0·96 (0·33-2·06)	0·3 (0·25-0·36)	0·12 (0·09-0·16)	0·57 (0·49-0·67)	0 (-0·01-0)	0 (-0·15-0·16)
Bosnia and Herzegovina	8·57 (5·76-11·93)	2·61 (1·62-3·96)	0·72 (0·55-0·96)	0·93 (0·63-1·35)	4·46 (2·9-6·93)	-0·87 (-1·97-0·12)	-0·12 (-0·66-0·37)
Botswana	-0·61 (-0·99--0·27)	-1·49 (-3·61--0·45)	-5·05 (-6·12--4·07)	0·14 (0·01-0·28)	-0·45 (-0·8--0·13)	-0·04 (-0·1--0·01)	-0·04 (-0·24-0·13)
Brazil	2·45 (2·22-2·72)	3·82 (2·82-4·91)	0·9 (0·79-1·03)	1 (0·85-1·18)	3·54 (3·12-4·02)	0·18 (0·12-0·24)	-0·02 (-0·04--0·01)
Brunei	-0·36 (-1·33-0·55)	1·63 (-0·23-3·73)	2·8 (1·94-3·89)	2·2 (1·53-3·19)	0·02 (-0·17-0·21)	0·09 (0·03-0·24)	0·05 (-0·04-0·19)
Bulgaria	-3·33 (-3·86--2·87)	0·69 (-0·01-1·44)	0·39 (0·29-0·55)	-0·27 (-0·39--0·19)	0·9 (0·76-1·08)	-0·07 (-0·19-0·05)	-0·24 (-0·43--0·04)
Burkina Faso	-0·2 (-0·25--0·16)	0·68 (0·11-2·68)	0·95 (0·73-1·2)	0·06 (0·04-0·07)	0·27 (0·23-0·32)	0 (0-0)	0 (0-0)
Burundi	0·1 (0·08-0·12)	0·29 (-0·05-1·07)	0·15 (0·12-0·18)	0·18 (0·14-0·23)	0·01 (0·01-0·02)	0·03 (0·02-0·04)	0 (0-0)
Cambodia	-0·05 (-0·08--0·02)	0·03 (-1·61-1·35)	1·93 (1·58-2·3)	0·04 (0·03-0·05)	0·1 (0·06-0·14)	0 (0-0)	0 (0-0)
Cameroon	-1·19 (-1·38--1·02)	-0·72 (-2·26--0·2)	0·69 (0·27-1·16)	-0·59 (-0·74--0·47)	-0·55 (-0·63--0·47)	0 (-0·07-0·07)	0 (0-0)
Canada	-0·6 (-0·68--0·52)	1·11 (0·83-1·41)	-0·05 (-0·06--0·04)	0·91 (0·8-1·04)	0·09 (0·08-0·11)	0·2 (0·15-0·24)	0·01 (0-0·02)
Cape Verde	0·41 (0·2-0·66)	0·03 (-0·78-0·69)	-1·18 (-1·77--0·72)	1·96 (1·51-2·54)	0·67 (0·45-0·93)	0·14 (0·08-0·25)	0·1 (-0·01-0·25)
Central African Republic	1·5 (1·27-1·76)	0·01 (-0·5-0·54)	1·25 (0·82-1·82)	0·21 (0·14-0·31)	-0·16 (-0·22--0·11)	0 (-0·07-0·07)	0 (-0·07-0·07)
Chad	-0·11 (-0·19--0·04)	-0·28 (-1·22-0·08)	-0·31 (-0·37--0·26)	-0·39 (-0·5--0·3)	-1·09 (-1·25--0·94)	0 (0-0)	0 (0-0)
Chile	0·27 (0·14-0·5)	4·28 (2·76-6·71)	-0·8 (-1·23--0·53)	2·69 (1·97-3·66)	1·51 (0·92-2·46)	0·91 (0·34-1·84)	0·17 (0·07-0·33)
China	5·89 (5·18-6·69)	0·13 (-0·1-0·34)	1·66 (1·41-1·94)	3·67 (2·62-5·1)	0·78 (0·63-0·95)	0·03 (-0·03-0·14)	0·01 (-0·04-0·06)
Colombia	-0·77 (-0·85--0·69)	-0·88 (-2·28-0·62)	0·66 (0·54-0·81)	1·01 (0·79-1·25)	-0·23 (-0·25--0·21)	-0·15 (-0·22--0·1)	-0·03 (-0·05--0·01)

	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Comoros	0·17 (0·14-0·2)	0·31 (0·02-0·99)	0·16 (0·13-0·19)	0·37 (0·29-0·47)	0·13 (0·1-0·15)	0·03 (0·02-0·05)	0·03 (0·01-0·06)
Congo	0·87 (0·72-1·05)	2 (0·71-4·08)	-1·13 (-1·37--0·94)	-0·17 (-0·22--0·13)	0·56 (0·47-0·67)	0 (0-0)	0 (0-0)
Costa Rica	0·43 (-0·28-1·17)	0·4 (-0·96-1·91)	4·26 (3·12-5·66)	0·75 (0·34-1·27)	0·99 (0·52-1·53)	0·39 (-0·15-1·09)	0·03 (-0·13-0·21)
Cote d'Ivoire	-0·18 (-0·23--0·15)	-0·03 (-0·62-0·38)	-0·1 (-0·13--0·09)	0·16 (0·13-0·21)	0·36 (0·3-0·43)	0·02 (0·02-0·03)	0·01 (0-0·02)
Croatia	12·52 (10·01-13·41)	10·93 (6·94-12·8)	1·52 (0·9-2·59)	0·48 (0·13-0·87)	2·57 (1·57-4·18)	1·97 (0·93-3·34)	0·38 (-0·16-1·07)
Cuba	3·31 (2·24-4·34)	-1·02 (-3·2-1·14)	-4·75 (-6·35--3·5)	0·2 (-0·28-0·7)	-1·21 (-1·84--0·67)	-0·38 (-1·07-0·17)	-0·03 (-0·19-0·11)
Cyprus	-0·55 (-0·85--0·34)	0·16 (0·04-0·35)	0·47 (0·29-0·77)	-0·23 (-0·47--0·02)	-2·54 (-4·19--1·57)	-2·46 (-3·84--1·13)	-0·18 (-0·6-0·17)
Czech Republic	-2·83 (-3·85--1·91)	0·03 (-1·28-1·3)	0·75 (0·51-1·09)	-0·25 (-0·64-0·11)	-0·04 (-0·08--0·02)	0·69 (-0·09-1·65)	0·2 (-0·47-0·92)
Democratic Republic of the Congo	0·43 (0·36-0·51)	2 (0·68-4·19)	-0·51 (-0·61--0·42)	-0·13 (-0·16--0·1)	0·26 (0·2-0·34)	0 (0-0)	0 (0-0)
Denmark	-2·58 (-3·58--1·71)	0·28 (-1·16-1·8)	0·54 (0·15-1)	0·18 (-0·04-0·42)	1·15 (0·55-1·81)	0·67 (-0·46-1·87)	0·08 (-0·4-0·6)
Djibouti	0·4 (0·17-0·68)	1·9 (0·56-4·6)	2·21 (1·73-2·83)	2·66 (2·08-3·33)	-0·01 (-0·2-0·18)	-0·04 (-0·14-0·05)	-0·01 (-0·11-0·08)
Dominica	-1·13 (-1·62--0·75)	-2·63 (-4·75--1·23)	-0·5 (-0·81--0·29)	0·81 (0·58-1·12)	-0·09 (-0·56-0·36)	0·24 (-0·2-0·79)	0·02 (-0·13-0·19)
Dominican Republic	0·2 (0·08-0·32)	1·5 (0·2-3·05)	-0·02 (-0·03--0·02)	0·57 (0·45-0·72)	0·22 (0·13-0·3)	-0·48 (-0·76--0·28)	0·02 (0·01-0·05)
Ecuador	0·23 (0·09-0·46)	0·07 (-0·04-0·21)	0·45 (0·27-0·75)	0·65 (0·45-0·96)	0·65 (0·52-0·81)	-0·25 (-0·39--0·15)	0·09 (0·03-0·2)
Egypt	1·03 (0·93-1·15)	0·36 (0·06-1·05)	0·31 (0·25-0·37)	0·62 (0·48-0·77)	0·14 (0·11-0·17)	0·2 (0·14-0·28)	0·02 (0·01-0·03)
El Salvador	1·89 (1·34-2·62)	2·23 (0·51-4·1)	0·6 (0·44-0·84)	0·3 (-0·01-0·63)	1·06 (0·73-1·49)	1·37 (0·71-2·47)	0·15 (0-0·38)
Equatorial Guinea	0·33 (0·05-0·65)	-0·18 (-0·9-0·17)	-1·53 (-2·43--0·72)	-0·15 (-0·23--0·08)	-0·19 (-0·36--0·02)	0 (-0·08-0·08)	0 (-0·09-0·09)
Eritrea	0·22 (-0·03-0·49)	0·28 (0·04-0·91)	0·29 (-0·34-0·93)	0·41 (0·29-0·56)	0·21 (0·04-0·4)	0·06 (0·02-0·14)	0·03 (-0·04-0·11)
Estonia	-2·53 (-2·9--2·22)	-1·59 (-4·3-1·8)	-0·38 (-0·48--0·29)	-0·98 (-1·17--0·82)	-3·51 (-3·81--3·16)	-1·7 (-2·79--0·66)	-0·16 (-0·28--0·06)
Ethiopia	-0·02 (-0·04--0·01)	2·34 (0·1-8·1)	0·04 (0·03-0·06)	-0·58 (-0·7--0·48)	0·31 (0·25-0·39)	0 (0-0)	0 (0-0)
Federated States of Micronesia	0·82 (0·47-1·28)	1·9 (0·6-3·79)	-0·3 (-1·01-0·37)	3·12 (2·31-4·3)	-0·57 (-0·8--0·41)	0 (-0·14-0·13)	0 (-0·07-0·07)

	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Fiji	-3·01 (-4·07--2·22)	-1·41 (-2·99--0·37)	-0·9 (-1·5--0·47)	4·23 (3·12-5·7)	-1·08 (-1·51--0·77)	0·13 (0·05-0·32)	0·05 (-0·03-0·15)
Finland	0·36 (0·31-0·42)	2·68 (1·93-3·55)	0·12 (0·08-0·16)	0 (-0·01-0)	2·27 (1·93-2·66)	0·69 (0·41-1·08)	0·15 (0·06-0·29)
France	-0·96 (-1·08--0·84)	0·43 (-0·03-0·89)	0·1 (0·09-0·12)	-0·18 (-0·2--0·15)	-0·37 (-0·66--0·2)	0·2 (0·15-0·25)	0·03 (0·01-0·04)
Gabon	-0·31 (-0·39--0·24)	-0·24 (-1·25-0·3)	-0·1 (-0·13--0·08)	-0·01 (-0·02--0·01)	0·16 (0·14-0·19)	0·05 (0·04-0·07)	0·01 (0-0·02)
Georgia	-0·6 (-1·08--0·34)	3·69 (1·62-5·74)	2·03 (1·44-2·83)	1·72 (1·3-2·26)	1·16 (0·65-2·1)	1·99 (0·65-3·29)	0·15 (-0·28-0·62)
Germany	-1·19 (-1·33--1·07)	0·19 (-0·74-1·24)	-0·07 (-0·08--0·06)	-0·48 (-0·53--0·43)	1·31 (1·04-1·62)	0·17 (0·08-0·25)	0·05 (0·02-0·07)
Ghana	-0·82 (-0·94--0·72)	0·15 (0·04-0·55)	1·13 (1-1·28)	0·34 (0·26-0·43)	0·55 (0·47-0·63)	0 (0-0)	0 (0-0)
Greece	0·27 (0·22-0·34)	0·22 (0·15-0·3)	0·08 (0·06-0·1)	-0·42 (-0·7--0·19)	0·4 (0·3-0·53)	0·14 (-0·88-1·19)	0·01 (-0·48-0·49)
Grenada	0·01 (-0·2-0·21)	0·13 (-0·29-0·65)	-0·78 (-1·23--0·46)	0·81 (0·45-1·29)	-0·77 (-1·15--0·46)	-0·01 (-0·3-0·26)	0 (-0·14-0·14)
Guatemala	2·81 (2·54-3·1)	1·41 (-0·12-3·09)	0·09 (0·07-0·1)	1·86 (1·64-2·1)	0·22 (0·19-0·25)	0·11 (-0·43-0·68)	0·01 (0-0·01)
Guinea	0·8 (0·62-1·02)	-0·88 (-4·18-0·69)	0·07 (0·06-0·09)	0·31 (0·24-0·41)	0·1 (0·06-0·14)	0 (0-0)	0 (0-0)
Guinea-Bissau	-0·07 (-0·34-0·2)	-0·14 (-1·14-0·23)	-3·94 (-5--3·07)	0·3 (0·22-0·39)	-0·16 (-0·38-0·06)	0 (-0·07-0·07)	0 (-0·07-0·07)
Guyana	0·17 (0·06-0·27)	-1·44 (-4·76-1·95)	-3 (-3·65--2·48)	-0·99 (-1·36--0·71)	2·71 (2·34-3·15)	0·92 (0·63-1·33)	0·14 (0-0·32)
Haiti	0·05 (0·02-0·07)	0·33 (-0·83-1·49)	0·26 (0·2-0·33)	-0·16 (-0·18--0·13)	0·03 (0·02-0·04)	0·07 (0·04-0·1)	0 (0-0·01)
Honduras	1·24 (1·1-1·4)	3·13 (1·49-4·75)	0·32 (0·25-0·39)	-0·14 (-0·17--0·11)	0·51 (0·45-0·58)	-0·02 (-0·03--0·01)	0 (0-0)
Hungary	-0·89 (-1·15--0·68)	-1·43 (-2·02--1)	0·34 (0·18-0·69)	-2·93 (-4·01--2·09)	-0·02 (-0·02--0·01)	0·79 (0-1·78)	0·17 (-0·41-0·81)
Iceland	0·47 (0·4-0·55)	-1·14 (-2--0·19)	0·03 (0·03-0·04)	0·37 (0·09-0·71)	-1·85 (-2·11--1·56)	2·56 (1·17-4·24)	0·31 (-0·19-0·95)
India	-0·02 (-0·04--0·01)	-0·09 (-0·7-0·18)	0·1 (0·08-0·12)	0·16 (0·12-0·19)	1·17 (1·05-1·31)	0 (0-0)	0 (0-0)
Indonesia	0·01 (0-0·02)	2·57 (1·15-4·36)	1·12 (0·9-1·35)	1·08 (0·85-1·34)	0·45 (0·37-0·54)	0 (0-0)	0 (0-0)
Iran	-1·04 (-1·16--0·92)	0·13 (-0·13-0·45)	0·22 (0·18-0·26)	0·23 (0·19-0·28)	-1·33 (-1·51--1·19)	0·32 (0·2-0·44)	-0·19 (-0·3--0·08)
Iraq	-8·56 (-9·66--7·18)	-6·11 (-8·36--3·76)	1·29 (0·89-1·89)	7·82 (6·51-8·84)	-2·47 (-3·57--1·7)	-2·07 (-3·63--0·84)	-0·23 (-0·79-0·23)
Ireland	-0·26 (-0·38--0·18)	-0·3 (-1·27-0·59)	0·23 (0·15-0·36)	-0·04 (-0·26-0·17)	6·45 (4·7-7·09)	2·55 (1·34-3·96)	0·24 (-0·15-0·67)

	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Israel	0·75 (0·29-1·21)	-3·24 (-5·24--1·57)	1·23 (1·05-1·45)	-0·75 (-0·97--0·57)	-0·42 (-1·16-0·28)	0·4 (0·34-0·47)	0·03 (0·01-0·05)
Italy	0·14 (0·13-0·16)	-0·02 (-0·32-0·3)	1·38 (1·22-1·56)	0·07 (0·05-0·09)	-0·02 (-0·03--0·01)	0·12 (0·09-0·16)	0·01 (0-0·01)
Jamaica	-0·45 (-0·57--0·34)	0·5 (0·18-0·95)	1·33 (1·04-1·72)	1·16 (0·82-1·61)	-1·94 (-2·67--1·44)	-0·16 (-0·66-0·25)	-0·01 (-0·15-0·11)
Japan	3·53 (3·36-3·71)	0·08 (-0·19-0·4)	-2·21 (-2·42--2·01)	0·49 (0·46-0·51)	-0·29 (-0·31--0·27)	-0·01 (-0·04-0·01)	0·16 (0·07-0·28)
Jordan	0·08 (0·03-0·13)	3·23 (1·33-5·66)	0·69 (0·56-0·83)	-0·65 (-0·83--0·49)	0·12 (0·07-0·17)	0·48 (-0·18-1·38)	0·06 (0·03-0·11)
Kazakhstan	-1·09 (-1·36--0·87)	0·76 (-0·79-2·23)	-0·15 (-0·21--0·11)	-1·17 (-1·81--0·66)	0·38 (0·27-0·51)	1·38 (0·21-2·63)	0·12 (0·04-0·23)
Kenya	0·01 (0-0·02)	-0·01 (-0·04-0·01)	-0·38 (-0·48--0·3)	-0·43 (-0·54--0·34)	-0·86 (-0·96--0·76)	0 (0-0)	0 (0-0)
Kiribati	0·93 (0·57-1·38)	2·08 (0·82-3·87)	-0·13 (-0·75-0·42)	3·27 (2·41-4·38)	-0·61 (-0·84--0·43)	0 (-0·14-0·14)	0 (-0·07-0·07)
Kuwait	1·1 (0·91-1·33)	4·36 (1·6-8·71)	4·29 (3·5-5·26)	4·23 (3·05-5·88)	4·04 (2·83-5·55)	1·45 (0·33-3·02)	0·3 (-0·38-1·16)
Kyrgyzstan	-3·83 (-4·52--3·22)	-1·83 (-3·54--0·49)	0·12 (0·08-0·17)	-1·88 (-2·37--1·49)	0·06 (0·04-0·08)	0·1 (0·06-0·15)	0·04 (0·01-0·07)
Laos	1·86 (1·62-2·14)	2·55 (1·56-4·24)	3·73 (3·27-4·28)	0·92 (0·75-1·13)	0·27 (0·18-0·38)	0 (-0·13-0·13)	0 (0-0)
Latvia	-1·84 (-2·35--1·01)	1·32 (-0·54-3·41)	-0·31 (-0·43--0·22)	0·74 (0·34-1·23)	-1·19 (-1·57--0·89)	2·51 (1·23-4·07)	0·43 (-0·2-1·24)
Lebanon	0·38 (0·34-0·43)	0·48 (0·28-0·7)	0·84 (0·73-0·97)	-4·31 (-5·07--3·67)	0·51 (0·42-0·61)	0·28 (0·23-0·34)	0·04 (0·02-0·07)
Lesotho	0·65 (0·55-0·77)	0·03 (-0·3-0·45)	0·59 (0·49-0·71)	0·11 (0·08-0·15)	0·06 (0·04-0·09)	0 (0-0)	0 (0-0)
Liberia	-0·02 (-0·03--0·01)	3·08 (1·19-5·35)	-2·69 (-3·36--2·1)	0·14 (0·11-0·17)	0·16 (0·14-0·2)	0 (-0·07-0·07)	0 (0-0)
Libya	-0·02 (-0·44-0·41)	0·03 (-0·9-1·15)	1·17 (0·78-1·77)	0·97 (0·54-1·55)	0·53 (0·12-1·07)	0·31 (-0·39-1·17)	0·06 (-0·46-0·59)
Lithuania	-1·31 (-1·51--1·03)	1·72 (-0·13-3·7)	0·62 (0·43-0·89)	2·06 (1·37-2·92)	11·81 (9·51-12·51)	2·15 (1·03-3·69)	0·49 (-0·2-1·35)
Luxembourg	1·79 (1·04-3·07)	8·42 (3·86-11·37)	0·24 (0·13-0·45)	1·37 (0·87-2·04)	0·24 (0·13-0·44)	0·31 (-1·11-1·69)	0·03 (-0·44-0·5)
Macedonia	1·24 (0·82-1·76)	3·88 (2·28-5·56)	1·31 (0·98-1·76)	-2·05 (-2·76--1·51)	2·89 (2·27-3·65)	0·58 (-0·37-1·63)	0·09 (-0·42-0·64)
Madagascar	-0·13 (-0·22--0·05)	-0·2 (-1·16-0·5)	-0·52 (-0·61--0·43)	-0·17 (-0·21--0·14)	-0·08 (-0·12--0·05)	0 (-0·07-0·07)	0 (0-0)
Malawi	0·14 (0·06-0·23)	0·42 (0-1·56)	0·39 (0·31-0·49)	-0·23 (-0·28--0·19)	0·04 (0·02-0·05)	0 (0-0)	0 (0-0)
Malaysia	-0·21 (-0·24--0·18)	-0·79 (-1·56--0·14)	1·69 (1·4-2·04)	0·75 (0·63-0·9)	-0·09 (-0·13--0·05)	0·16 (0·05-0·43)	0·04 (-0·04-0·13)

	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
The Maldives	1·59 (1·29-1·96)	2·09 (0·52-6·64)	0·31 (0·26-0·36)	1·21 (1-1·46)	3·53 (2·99-4·14)	0·39 (0·14-1·04)	0·17 (0·06-0·32)
Mali	0·31 (0·27-0·36)	-0·42 (-2·19-0·53)	0·26 (0·2-0·33)	-0·13 (-0·16--0·11)	0·85 (0·74-0·98)	0 (0-0)	0 (0-0)
Malta	-0·87 (-1·23--0·61)	1·02 (0·21-2·18)	1·58 (1·09-2·25)	-0·37 (-0·62--0·23)	1·39 (0·96-2·04)	0·34 (0·2-0·57)	0·07 (-0·4-0·55)
Marshall Islands	-1·06 (-1·67--0·57)	0·14 (-0·65-1·02)	-0·51 (-1·13-0·03)	1·88 (1·37-2·57)	0·3 (0·07-0·58)	0·06 (-0·05-0·26)	0·01 (-0·06-0·1)
Mauritania	-0·4 (-0·69--0·15)	0·79 (-1·06-2·88)	0·94 (0·59-1·36)	0·27 (0·13-0·42)	0·17 (-0·06-0·42)	0·06 (0·01-0·13)	0·04 (-0·06-0·15)
Mauritius	-0·11 (-0·22--0·05)	2·37 (1·52-3·57)	1·11 (0·85-1·44)	1·45 (1·03-2)	0·33 (0·14-0·55)	0·07 (0·03-0·13)	0·09 (-0·06-0·29)
Mexico	1·18 (1·08-1·28)	-0·71 (-1·02--0·42)	-0·4 (-0·44--0·36)	2·57 (2·36-2·8)	3·3 (3·04-3·57)	0·58 (0·5-0·66)	0·03 (0·01-0·05)
Moldova	-6·23 (-7·41--3·64)	0·99 (-0·98-2·82)	2·05 (1·54-2·73)	1·86 (1·36-2·49)	0 (0-0·01)	2·22 (1·04-3·64)	0·31 (-0·2-0·95)
Mongolia	-3·33 (-4·44--2·27)	6·53 (3·13-9·81)	-2·31 (-3·15--1·67)	10·88 (8·95-12·34)	1·62 (1·13-2·23)	2·72 (1·31-4·16)	0·26 (-0·24-0·86)
Montenegro	8·19 (5·42-9·09)	4·23 (1·47-8·57)	3 (1·78-5·14)	0·02 (-0·37-0·42)	8·39 (5·04-10·79)	2·1 (0·94-3·57)	0·39 (-0·21-1·19)
Morocco	0·45 (0·25-0·81)	1·39 (0·36-3·04)	1·84 (1·1-3·06)	1·29 (0·84-2·03)	1·07 (0·61-1·88)	0·54 (0·33-0·85)	0·21 (0·08-0·44)
Mozambique	1·07 (0·9-1·26)	0·45 (0·14-1·32)	1·02 (0·82-1·25)	1·5 (1·23-1·83)	-0·16 (-0·2--0·13)	0 (0-0)	0 (0-0)
Myanmar	6·85 (5·15-8·85)	4·76 (2·67-7·46)	7·89 (5·93-10·08)	5·42 (4·02-7·32)	1·76 (1·34-2·32)	0·09 (0·02-0·25)	0·03 (-0·04-0·12)
Namibia	-0·97 (-1·09--0·86)	-1·33 (-4·88-0·1)	0·82 (0·72-0·95)	0·16 (0·12-0·2)	0·13 (0·08-0·18)	0·26 (0·14-0·44)	0·08 (0·03-0·14)
Nepal	0·01 (0·01-0·02)	0·02 (-0·08-0·18)	0·22 (0·17-0·27)	0·25 (0·2-0·32)	0·09 (0·06-0·13)	0 (0-0)	0 (0-0)
Netherlands	0·49 (0·45-0·53)	0·2 (-0·27-0·71)	0·46 (0·41-0·51)	0·04 (0·03-0·05)	0·45 (0·38-0·52)	0·14 (0·05-0·22)	0·12 (0·05-0·2)
New Zealand	-0·81 (-0·95--0·7)	0·5 (0·11-0·95)	0·3 (-0·01-0·65)	-1·84 (-2·56--1·3)	-3·46 (-4·25--2·81)	0·23 (-1·3-1·78)	0·01 (-0·47-0·51)
Nicaragua	-2·47 (-3·43--1·73)	2·91 (1·07-4·94)	1·23 (0·91-1·67)	-0·77 (-1·33--0·34)	1·06 (0·7-1·5)	0·47 (0·18-0·96)	0·06 (-0·07-0·23)
Niger	-0·25 (-0·3--0·21)	-0·61 (-2·78--0·01)	0·36 (0·29-0·45)	-0·38 (-0·5--0·3)	0·59 (0·5-0·69)	0 (0-0·01)	-0·01 (-0·01-0)
Nigeria	0·01 (0-0·01)	-0·75 (-2·81--0·02)	0·06 (0·05-0·08)	-0·01 (-0·02--0·01)	0·01 (0·01-0·02)	0 (0-0)	0 (0-0)
Norway	1·2 (1·03-1·41)	0·71 (0·23-1·47)	0·87 (0·74-1·04)	0·15 (-0·13-0·45)	-0·82 (-0·97--0·69)	-0·05 (-1·41-1·3)	-0·01 (-0·51-0·49)
Oman	1·17 (0·65-1·9)	2·03 (0·54-4·21)	-0·04 (-0·56-0·45)	1·63 (0·99-2·5)	1·31 (0·76-2·09)	1·05 (0·28-2·37)	0·24 (-0·39-1·03)

	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Pakistan	0·29 (0·25-0·33)	0·11 (-0·33-0·94)	-0·14 (-0·18--0·11)	0·8 (0·67-0·96)	0·15 (0·09-0·21)	0 (0-0)	0 (0-0)
Palestine	0·16 (-0·33-0·66)	0·41 (-1·15-2·42)	1·25 (0·82-1·87)	1·15 (0·68-1·76)	0·71 (0·21-1·38)	0·35 (-0·42-1·22)	0·06 (-0·46-0·65)
Panama	0·32 (-0·33-0·98)	0·69 (-0·99-2·22)	0·48 (0·28-0·76)	0·45 (0·28-0·66)	0·65 (0·29-1·07)	0·64 (0·24-1·31)	0·08 (-0·07-0·29)
Papua New Guinea	9·97 (8·22-11·46)	-0·63 (-1·92-0·72)	-3·41 (-4·75--2·47)	-0·59 (-0·84--0·42)	-1·05 (-1·4--0·81)	0·05 (-0·08-0·26)	0·01 (-0·06-0·08)
Paraguay	3·94 (2·81-5·03)	-1·22 (-3·79-0·43)	0·18 (0·08-0·32)	2·41 (1·81-3·22)	-0·32 (-0·61--0·05)	0·67 (-0·11-1·61)	0·02 (-0·08-0·13)
Peru	2·1 (1·9-2·33)	0·33 (-1·49-2·15)	-0·91 (-1·52--0·41)	1·16 (0·91-1·44)	0·14 (0·09-0·19)	0·18 (-0·68-1·09)	0 (0-0·01)
The Philippines	0·12 (0·05-0·19)	3·94 (3·13-4·9)	-3·22 (-3·53--2·94)	1·08 (0·95-1·22)	-1·87 (-2·08--1·68)	0 (0-0)	0 (0-0)
Poland	-1·43 (-1·56--1·31)	2·52 (1·23-3·77)	0·13 (0·11-0·15)	-0·56 (-0·63--0·49)	-0·06 (-0·09--0·04)	0·13 (-0·25-0·51)	0·09 (0·04-0·15)
Portugal	0·86 (0·77-0·96)	1·3 (1·07-1·52)	-0·13 (-0·14--0·11)	0·78 (0·7-0·88)	1·94 (1·75-2·16)	0·46 (0·34-0·59)	0·13 (0·06-0·21)
Qatar	-0·1 (-0·82-0·59)	0·72 (-1-2·71)	1·21 (0·67-2·04)	0·93 (0·29-1·76)	0·45 (-0·15-1·14)	0·29 (-1-1·67)	0·05 (-0·85-0·98)
Romania	-6·16 (-7·19--5·18)	-4·7 (-7·4--2·35)	0·97 (0·79-1·21)	-1·21 (-1·41--1·04)	1·97 (1·6-2·41)	4·82 (4·13-5·48)	0·11 (0·04-0·18)
Russia	-2 (-2·34--1·3)	2·54 (1·54-3·76)	0·15 (0·11-0·19)	0·62 (0·08-1·25)	1·89 (1·47-2·45)	0·95 (-0·14-2·23)	0·18 (-0·56-0·99)
Rwanda	0·14 (0·11-0·17)	0·04 (-0·15-0·33)	1·15 (0·92-1·42)	-0·04 (-0·06--0·03)	-0·53 (-0·61--0·46)	0 (0-0)	0 (0-0)
Saint Lucia	0·79 (0·43-1·26)	0·48 (0·01-1·27)	0·37 (0·19-0·61)	0·35 (0·2-0·55)	-0·92 (-1·35--0·58)	-0·04 (-0·34-0·24)	-0·01 (-0·15-0·14)
Saint Vincent and the Grenadines	1·8 (1·25-2·51)	1·22 (0·41-2·68)	0·59 (0·33-0·94)	-0·24 (-0·47--0·05)	0·94 (0·57-1·4)	0·31 (-0·04-0·77)	0·03 (-0·09-0·18)
Samoa	-2·51 (-3·56--1·74)	1·57 (0·39-3·24)	0·67 (0·24-1·22)	0·26 (0·18-0·39)	2·84 (2·15-3·8)	0·25 (0·09-0·63)	0·05 (-0·02-0·17)
Sao Tome and Principe	0·35 (0·27-0·44)	1·5 (0·45-3·55)	-5·67 (-6·42--4·92)	-0·21 (-0·26--0·17)	1·69 (1·38-2·07)	0 (-0·09-0·08)	0 (0-0)
Saudi Arabia	-0·72 (-1·3--0·27)	1·36 (-1·2-4·02)	2·32 (1·58-3·36)	2·33 (1·62-3·32)	-0·98 (-1·56--0·57)	0·76 (0·03-1·86)	0·16 (-0·38-0·77)
Senegal	0·01 (0-0·01)	-0·59 (-2·55-0·84)	-0·83 (-0·95--0·72)	0·12 (0·1-0·14)	-1·44 (-1·63--1·27)	0 (0-0)	0 (0-0)
Serbia	-1·44 (-2·13--1)	-0·14 (-0·85-0·51)	0·11 (0·07-0·17)	-1·35 (-2·3--0·81)	-0·06 (-0·09--0·04)	-3·72 (-6·51--2·1)	-0·26 (-0·88-0·25)
Seychelles	0·1 (0·09-0·12)	0·55 (0·3-0·87)	0·35 (0·32-0·37)	0·43 (0·29-0·62)	0·14 (0·12-0·18)	-0·04 (-0·07--0·02)	0·02 (-0·06-0·11)
Sierra Leone	0·05 (0·02-0·07)	3·16 (1·02-5·44)	0·88 (0·73-1·04)	0·1 (0·07-0·13)	-0·04 (-0·05--0·02)	0 (0-0)	0 (0-0)

	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Singapore	1·65 (1·42-1·94)	0·86 (0·59-1·17)	-0·06 (-0·07--0·05)	1·28 (0·71-2·06)	0·04 (0·03-0·05)	0·07 (0·02-0·2)	0·04 (-0·05-0·17)
Slovakia	-1·48 (-1·85--1·17)	4·09 (2·6-5·79)	0·15 (0·1-0·2)	0·04 (0·03-0·06)	-0·04 (-0·06--0·03)	0·51 (0·34-0·72)	0·12 (0·05-0·22)
Slovenia	0·46 (0·32-0·67)	2·3 (1·33-3·78)	2·01 (1·3-3·1)	1·57 (1·02-2·27)	1·08 (0·7-1·65)	1·31 (0·45-2·44)	0·32 (-0·33-1·08)
Solomon Islands	0·37 (-0·15-0·94)	0·24 (-1·13-1·49)	-2·95 (-4·16--2·06)	0·44 (0·25-0·69)	0·72 (0·41-1·12)	0 (-0·14-0·15)	0 (-0·08-0·08)
South Africa	0·5 (0·46-0·53)	0·24 (0·08-0·43)	-0·55 (-0·7--0·43)	1·28 (0·92-1·74)	-0·13 (-0·15--0·11)	0·03 (-0·01-0·08)	0·03 (-0·1-0·19)
South Korea	0·66 (0·44-0·87)	-0·16 (-0·27--0·08)	0·1 (0·08-0·11)	0·99 (0·9-1·08)	1·07 (0·94-1·22)	-0·47 (-0·69--0·28)	0·19 (0·08-0·29)
South Sudan	0·19 (-0·05-0·43)	0·3 (0·03-0·98)	0·26 (-0·4-0·92)	0·32 (0·22-0·45)	0·18 (0·02-0·36)	0·05 (-0·01-0·12)	0·02 (-0·04-0·08)
Spain	-0·23 (-0·34--0·16)	1·3 (0·68-2·26)	0·69 (0·46-1·03)	-0·65 (-1·04--0·35)	1·25 (0·82-1·87)	1·38 (0·23-2·68)	0·1 (-0·26-0·48)
Sri Lanka	-1·23 (-1·43--1·05)	-0·03 (-0·4-0·34)	0·82 (0·54-1·27)	0·58 (0·4-0·85)	0·4 (0·24-0·57)	0 (-0·06-0·07)	0 (0-0)
Sudan	-0·18 (-0·4-0·02)	0·47 (-0·33-2·69)	0·37 (-0·22-1·01)	0·43 (0·32-0·58)	0·15 (0·12-0·19)	0·04 (-0·01-0·11)	0·02 (-0·05-0·08)
Suriname	2·12 (1·43-2·96)	1·51 (0·15-3·05)	0·72 (0·47-1·06)	-1·56 (-2·17--1·12)	-3·72 (-4·76--2·89)	0·74 (0·21-1·45)	0·06 (-0·07-0·22)
Swaziland	0·04 (0·03-0·05)	-1·38 (-5·87--0·12)	0·12 (0·1-0·16)	-0·47 (-0·59--0·37)	0·11 (0·09-0·13)	0·04 (0·02-0·08)	0·07 (0·03-0·13)
Sweden	0·1 (0·04-0·16)	1·56 (1·23-1·92)	0·21 (0·18-0·23)	-0·01 (-0·01--0·01)	-0·76 (-0·87--0·66)	0·29 (0·2-0·38)	0·1 (0·04-0·16)
Switzerland	-1·72 (-2·22--1·32)	0·23 (-0·03-0·5)	0·35 (0·27-0·47)	-0·11 (-0·14--0·09)	-0·09 (-0·12--0·07)	0·52 (0·39-0·67)	0·08 (0·03-0·14)
Syria	0·11 (-0·3-0·56)	0·71 (0·02-1·82)	1·24 (0·81-1·88)	1·1 (0·66-1·69)	0·63 (0·22-1·15)	0·36 (-0·32-1·18)	0·07 (-0·43-0·58)
Taiwan	0·83 (0·72-0·95)	0·54 (-0·16-1·19)	-0·66 (-0·77--0·55)	1·73 (1·17-2·51)	0·29 (0·23-0·36)	0·16 (0·07-0·39)	0·06 (-0·01-0·19)
Tajikistan	1·58 (1·26-1·99)	-1·55 (-4·29-1·06)	-0·01 (-0·01-0)	-0·06 (-0·08--0·05)	-1·36 (-1·7--1·09)	-0·02 (-0·05-0)	0·08 (0·03-0·15)
Tanzania	-0·02 (-0·03--0·01)	0·09 (-0·13-0·48)	-8·01 (-9·62--6·55)	-0·46 (-0·56--0·37)	0·11 (0·07-0·16)	0·03 (0·02-0·04)	0·01 (0-0·01)
Thailand	0·36 (0·23-0·56)	0·19 (-0·52-0·88)	1·68 (1·17-2·42)	0·61 (0·19-1·09)	0·19 (0·09-0·36)	0·01 (-0·07-0·11)	0 (-0·04-0·05)
The Bahamas	-3·05 (-4·22--2·07)	0·32 (-0·7-1·8)	-0·02 (-0·26-0·22)	5·88 (4·51-7·61)	0·03 (-0·53-0·6)	0·72 (0·22-1·57)	0·08 (-0·12-0·36)
The Gambia	-0·41 (-0·53--0·32)	1·5 (-0·41-4·19)	0·34 (0·28-0·41)	0·44 (0·35-0·57)	0·33 (0·27-0·41)	0 (0-0)	0 (0-0)
Timor-Leste	-0·62 (-0·73--0·54)	2·33 (1·05-4·14)	1·75 (1·5-2·05)	0·44 (0·38-0·51)	-0·02 (-0·03--0·02)	0 (-0·12-0·14)	0 (0-0)

	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
Togo	-0·26 (-0·33--0·21)	0·32 (-0·7-1·5)	0·14 (0·11-0·16)	-0·23 (-0·3--0·18)	0·16 (0·12-0·21)	0 (0-0)	0 (0-0)
Tonga	-0·91 (-1·64--0·33)	0·21 (-0·83-1·42)	-0·33 (-1·1-0·36)	2·04 (1·45-2·86)	0·37 (0·05-0·74)	0·07 (-0·08-0·31)	0·01 (-0·09-0·12)
Trinidad and Tobago	2·46 (1·75-3·36)	2·65 (0·99-4·91)	0·43 (0·34-0·53)	0·75 (0·53-1·05)	0·17 (-0·21-0·58)	0·06 (0·01-0·13)	0·05 (-0·12-0·26)
Tunisia	-0·05 (-0·1--0·02)	0·01 (-0·01-0·04)	0·82 (0·55-1·22)	0·42 (0·27-0·63)	3·05 (1·6-5·79)	0·26 (0·18-0·39)	0·19 (-0·17-0·64)
Turkey	0·51 (0·35-0·75)	0·03 (-0·06-0·15)	-0·06 (-0·11--0·03)	0·63 (0·4-0·99)	1·86 (1·21-2·83)	-0·44 (-0·63--0·31)	-0·04 (-0·08--0·01)
Turkmenistan	2·75 (1·96-3·68)	0·96 (-1·03-2·93)	-4·05 (-5·31--3·08)	1·27 (0·93-1·73)	0·81 (0·44-1·22)	-2·4 (-3·79--0·93)	-0·22 (-0·82-0·31)
Uganda	0·32 (0·28-0·36)	0·55 (0·2-1·66)	-0·94 (-1·07--0·82)	0·04 (0·03-0·05)	0·43 (0·36-0·51)	0 (0-0)	0 (0-0)
Ukraine	-4·23 (-7·49--2·37)	-0·94 (-2·77-0·82)	1·13 (0·78-1·63)	0·35 (-0·1-0·82)	-0·09 (-0·11--0·07)	0·64 (-0·38-1·8)	0·12 (-0·5-0·81)
United Arab Emirates	-6·25 (-8·34--4·47)	-3·92 (-6·27--1·52)	0·3 (-0·29-0·99)	-1·82 (-2·97--0·97)	-1·49 (-2·5--0·76)	-0·7 (-2·28-0·51)	-0·12 (-0·92-0·6)
United Kingdom	-0·2 (-0·22--0·17)	0·71 (0·3-1·18)	0·24 (0·19-0·3)	0·23 (-0·03-0·55)	0·03 (0·03-0·04)	0·98 (-0·34-2·36)	0·09 (-0·35-0·53)
United States	-0·52 (-0·55--0·5)	0·46 (0·25-0·7)	0 (0-0)	0·44 (0·12-0·83)	0·02 (0·02-0·02)	0·45 (0·35-0·56)	0·01 (0·01-0·02)
Uruguay	-3·25 (-4·49--2·13)	2·08 (0·25-4·02)	0·79 (0·54-1·15)	2·61 (1·94-3·52)	1·28 (0·72-1·99)	0·95 (0·4-1·86)	0·13 (-0·09-0·42)
Uzbekistan	4·11 (3·36-5·08)	0·24 (-1·52-1·88)	-1·29 (-2·05--0·69)	1·53 (1·01-2·22)	-0·28 (-0·36--0·21)	-0·33 (-1·6-0·92)	-0·04 (-0·07--0·01)
Vanuatu	0·11 (-0·42-0·65)	-0·99 (-2·71-0·03)	-0·43 (-0·99-0·05)	0·89 (0·53-1·36)	0·08 (-0·15-0·31)	-0·06 (-0·26-0·06)	-0·01 (-0·09-0·06)
Venezuela	-0·97 (-1·68--0·4)	-1·8 (-3·89-0·17)	-0·72 (-1·08--0·48)	0·19 (-0·06-0·48)	0·91 (0·33-1·54)	0·59 (0·04-1·41)	0·05 (-0·14-0·28)
Vietnam	0·55 (0·2-1·01)	1·25 (0·59-2·64)	3·22 (2·23-4·69)	4·9 (3·63-6·56)	0·7 (0·5-0·97)	0 (-0·1-0·11)	0 (-0·05-0·06)
Yemen	0·23 (0·19-0·27)	0·98 (-0·08-3·02)	-3·41 (-4·23--2·76)	0·11 (0·09-0·13)	0·44 (0·37-0·53)	0·24 (0·16-0·36)	0·03 (0·01-0·06)
Zambia	0·91 (0·8-1·04)	-0·03 (-0·94-0·77)	-0·24 (-0·29--0·19)	0·38 (0·33-0·45)	0·01 (0-0·01)	0 (0-0)	0 (0-0)
Zimbabwe	0·07 (0·03-0·11)	0·33 (-0·06-1·15)	0·15 (0·11-0·18)	0·09 (0·07-0·11)	-0·04 (-0·06--0·03)	-0·03 (-0·04--0·02)	-0·02 (-0·04--0·01)

**Table S18. Absolute change in ASF intake (servings/week) by income group in 2018.**

Country	Unprocessed red meat	Processed meat	Seafood	Egg	Milk	Cheese	Yogurt
High versus low education level							
High-income countries	0·007 (-0·02-0·04)	0·10 (0·03-0·17)	0·05 (0·02-0·09)	0·05 (0·005-0·09)	0·10 (0·04-0·16)	0·18 (0·11-0·26)	0·11 (0·08-0·15)
Upper middle-income countries	0·67 (0·54-0·80)	0·28 (0·13-0·45)	0·18 (0·12-0·24)	0·56 (0·31-0·89)	0·72 (0·64-0·82)	0·33 (0·25-0·43)	0·16 (0·11-0·23)
Lower middle-income countries	0·42 (0·36-0·48)	0·28 (0·02-0·61)	0·42 (0·34-0·51)	0·6 (0·52-0·69)	1·34 (1·18-1·52)	0·10 (0·07-0·12)	0·24 (0·19-0·31)
Low-income countries	0·90 (0·79-1·03)	0·24 (-0·35-0·96)	0·78 (0·62-0·95)	0·9 (0·76-1·05)	1·34 (1·19-1·5)	0·21 (0·14-0·28)	0·30 (0·22-0·42)
Urban versus rural residence							
High-income countries	0·009 (0·003-0·02)	0·52 (0·23-0·84)	0·11 (-0·1-0·33)	0·25 (0·12-0·4)	0·42 (0·28-0·56)	0·24 (0·08-0·41)	0·23 (0·11-0·41)
Upper middle-income countries	0·04 (0·04-0·05)	0·46 (0·02-0·98)	0·13 (0·05-0·21)	0·20 (0·07-0·34)	0·23 (0·13-0·34)	0·12 (-0·11-0·36)	0·23 (0·08-0·29)
Lower middle-income countries	0·02 (0·01-0·02)	0·12 (-0·12-0·42)	0·1 (0·05-0·16)	0·2 (0·12-0·27)	0·22 (0·17-0·27)	0·06 (0·01-0·12)	0·16 (0·09-0·29)
Low-income countries	0·02 (0·02-0·03)	-0·07 (0·32-0·04)	0·07 (0·03-0·11)	0·15 (0·11-0·21)	0·17 (·193-0·22)	0·06 (0·004-0·12)	0·06 (0·02-0·11)

High-income countries: gross national income (GNI) per capita ≥$12,376 in 2018; upper middle-income countries: GNI per capita ≥$3,996 and ≤$12,375 in 2018; lower middle-income countries: GNI per capita ≥$1,026 and ≤$3,995 in 2018; low-income countries: GNI per capita ≤$1,025 in 2018

## Total animal source food intake
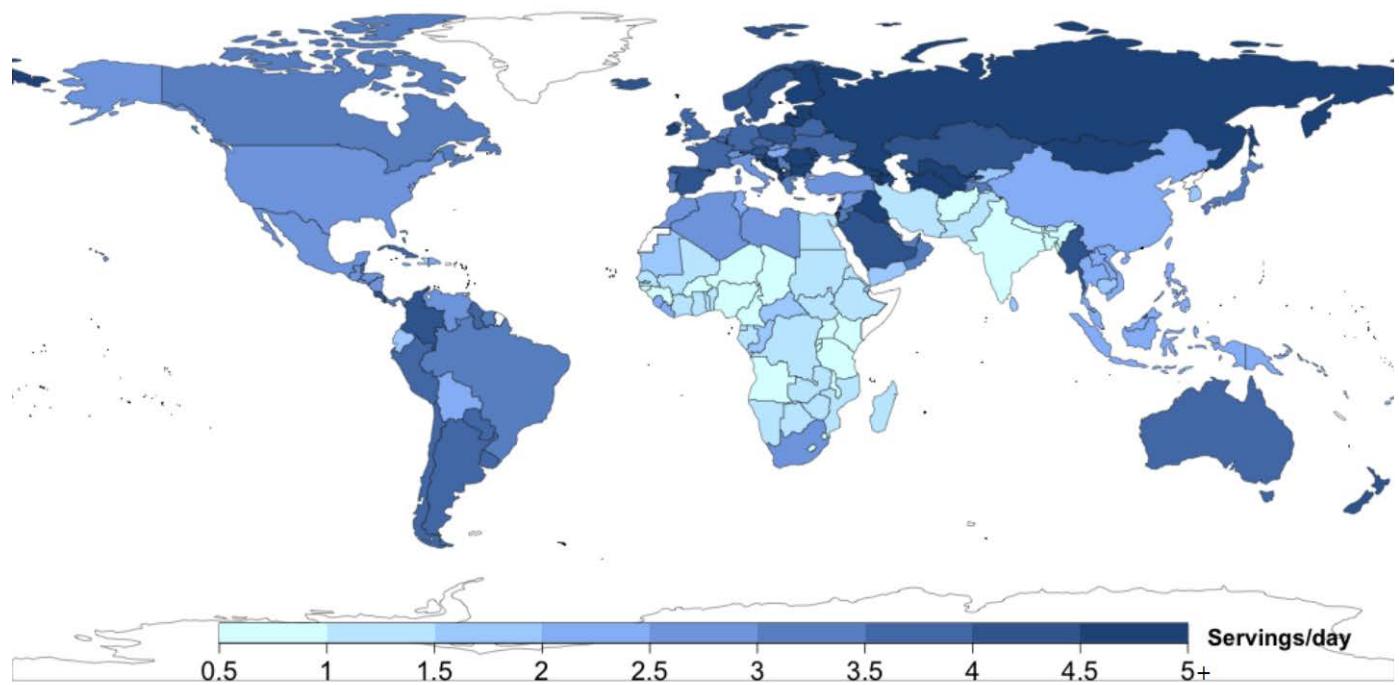
## Absolute difference in animal source food intake between 1990 and 2018
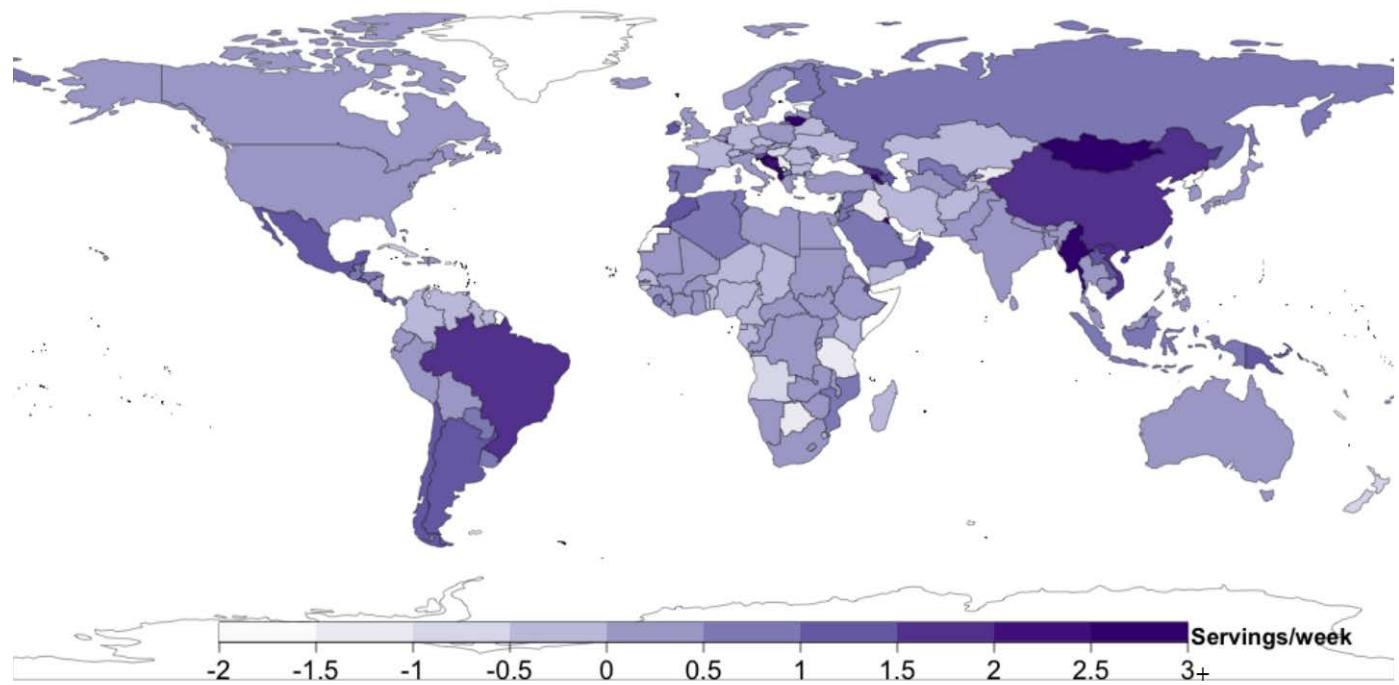
Figure S12. Global and national mean total animal source food intake (servings/d) in 2018 for children and adults (top panel) and absolute change (servings/week) in intake between 1990 and 2018 (bottom panel). 1 serving/day of unprocessed red meat = 100 g/day; total processed meat = 50 g/day; seafood = 100 g/day; egg = 55 g/day; cheese = 42 g/day; yogurt = 245
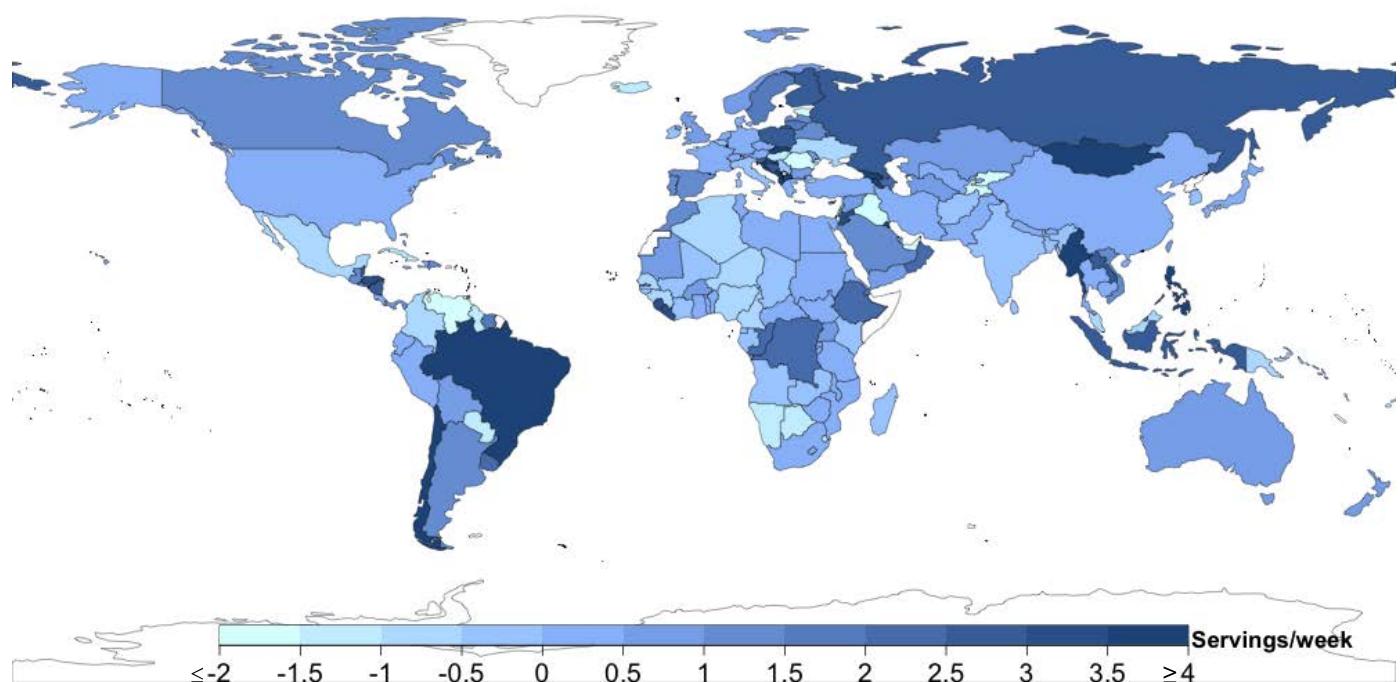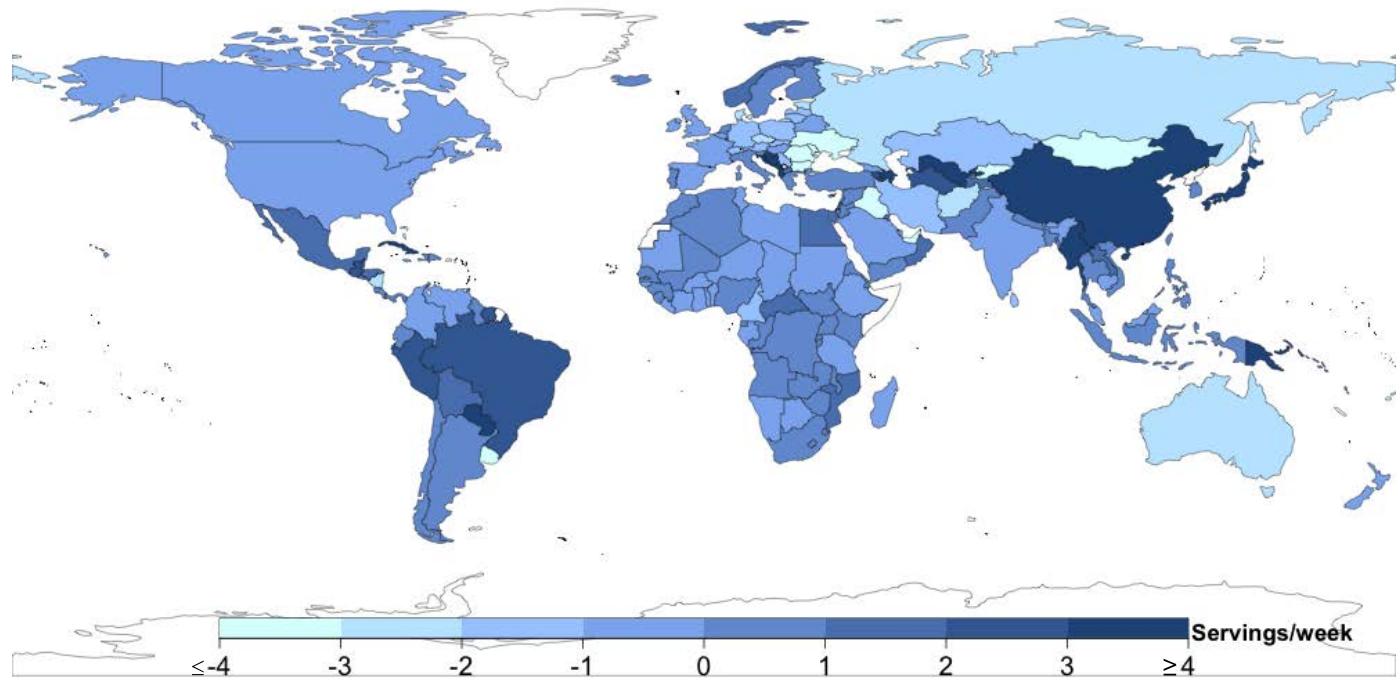
Figure S13. National absolute change (servings/week) in intake of unprocessed red meat (top panel) and processed meat (bottom panel) in children and adults from 185 countries between 1990 and 2018. Unprocessed red meat serving = 100 g; processed meat = 50 g.
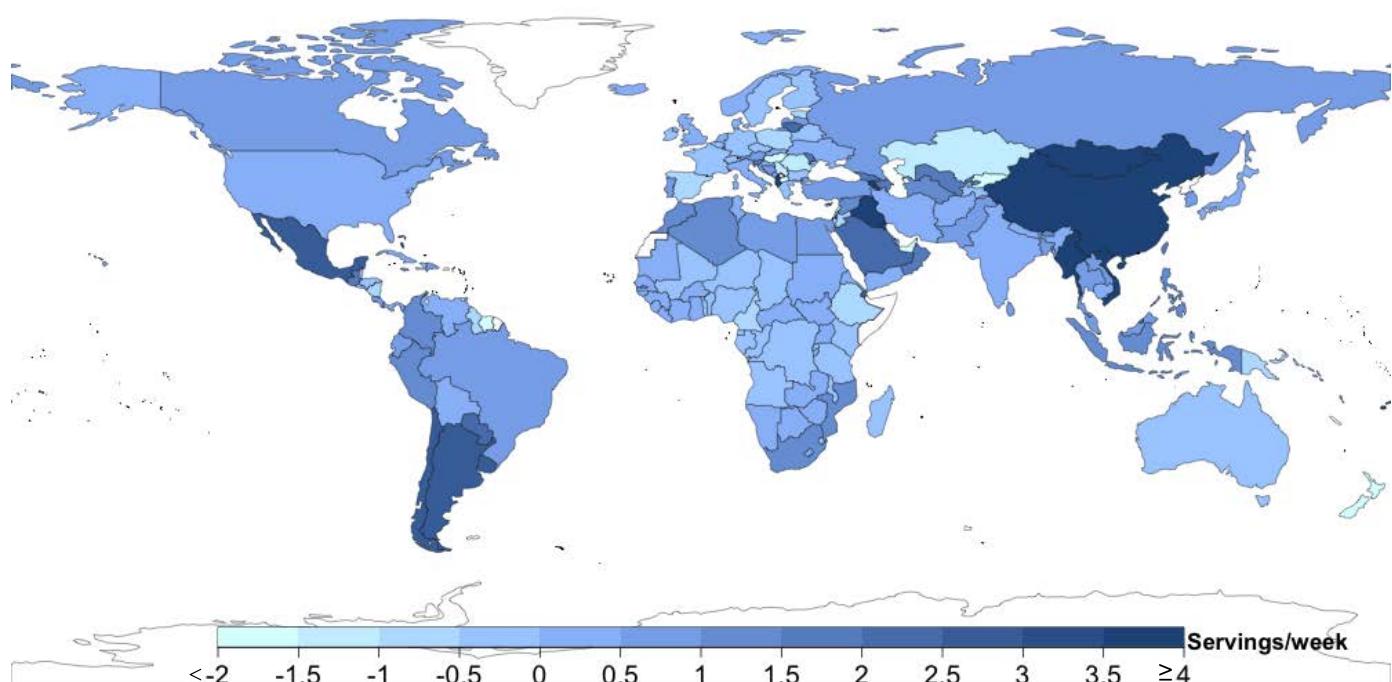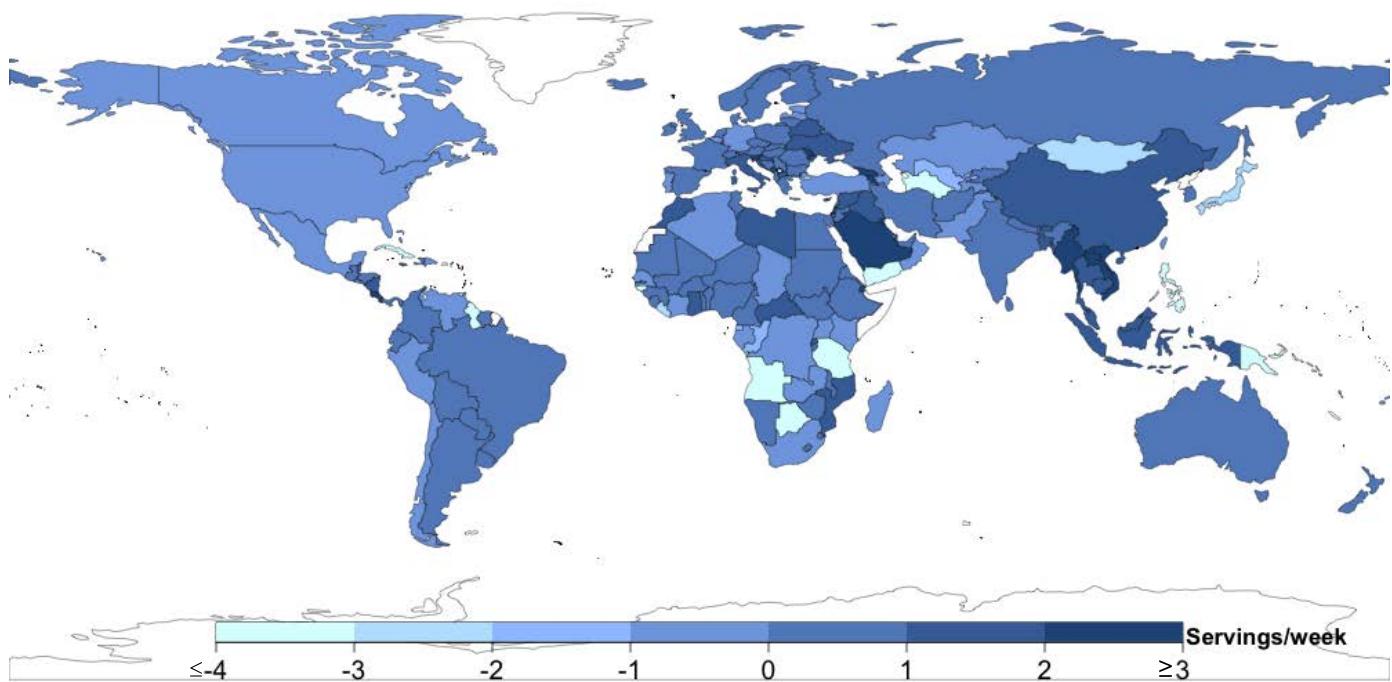
Figure S14. National absolute change (servings/week) in intake of seafood (top panel) and egg (bottom panel) in children and adults from 185 countries between 1990 and 2018. Seafood serving = 100 g; egg = 55 g.
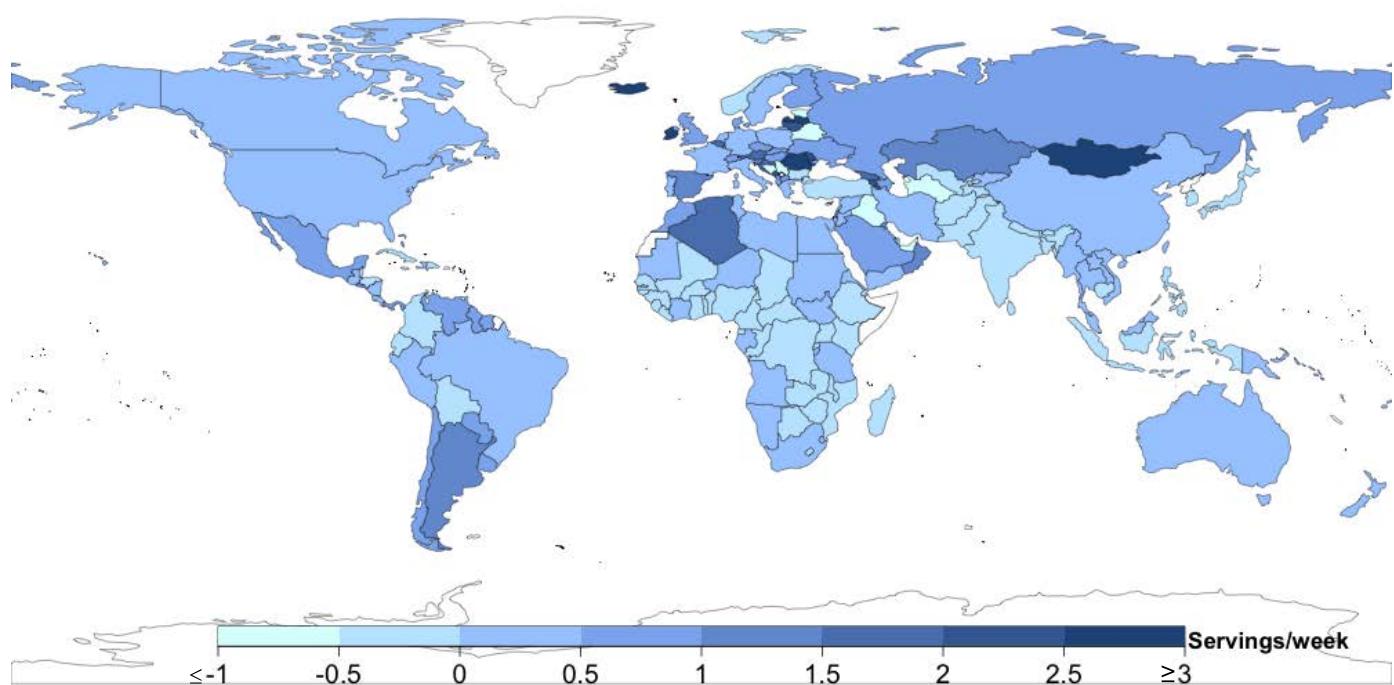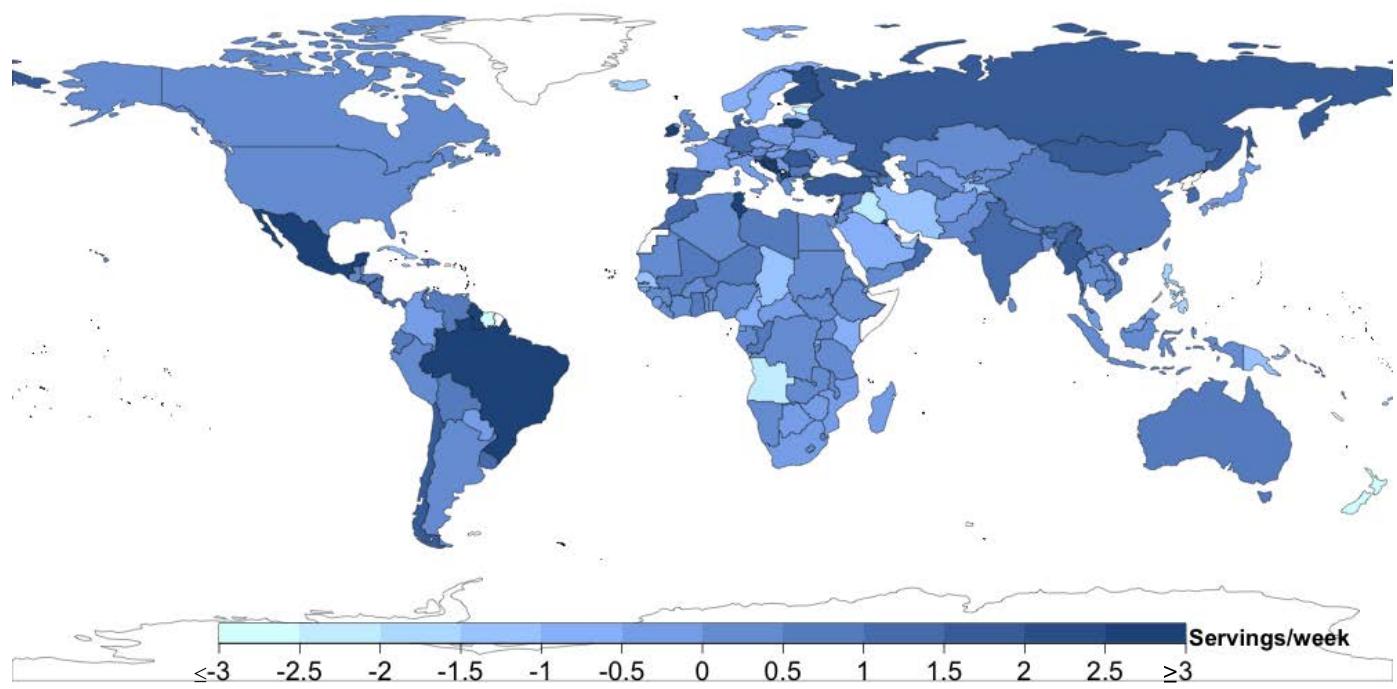
Figure S15. National absolute change (servings/week) in intake of milk (top panel) and cheese (bottom panel) in children and adults from 185 countries between 1990 and 2018. Milk serving = 245 g; cheese = 42 g.
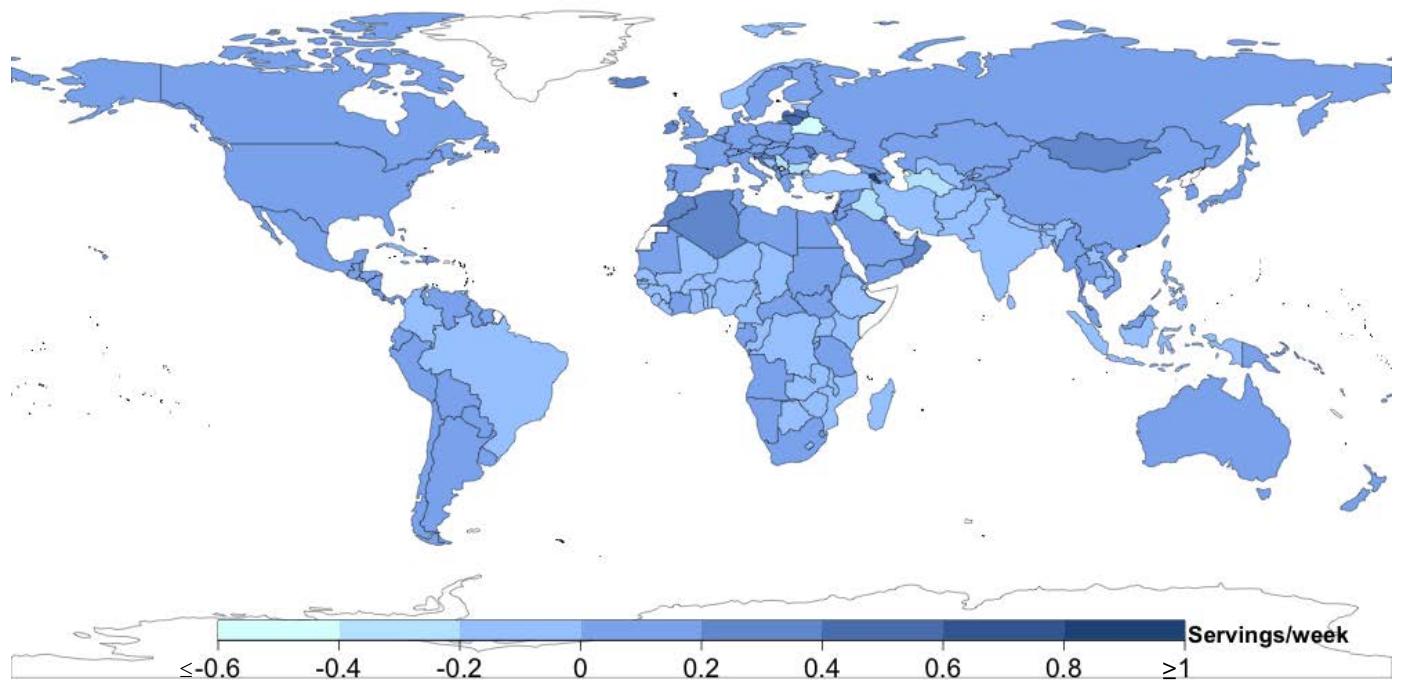
Figure S16. National absolute change (servings/week) in intake of yogurt in children and adults from 185 countries between 1990 and 2018. Yogurt serving = 245 g.