

# FAOSTAT FBS

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FAOSTAT provides annual statistics of food supply by country. FAOSTAT data can be found here < <http://www.fao.org/faostat/en/#data>>. The latest data has been pulled from the report updated on April, 2024 which covers 186 economies from year 1961 to year 2021.

## **Series pulled from the FAOSTAT Food Balance Sheets**

| Standard Series                            | Name in Source   | Item Code | Element Code |
|--|--|-----------|--------------|
| AgBovineMeatProductionFAO                  | Bovine Meat: Production  | 2731      | 5511         |
| AgCerealsEx                                | Cereals - Excluding Beer: Export Quantity                            | 2905      | 5911         |
| AgCerealsIm                                | Cereals - Excluding Beer: Import Quantity                            | 2905      | 5611         |
| AgFishCalPerCapPerDayAqAnimalsFAO          | Aquatic Animals, Others: Food supply (kcal/capita/day)               | 2769      | 664          |
| AgFishCalPerCapPerDayAqPlantsFAO           | Aquatic Plants: Food supply (kcal/capita/day)                        | 2775      | 664          |
| AgFishCalPerCapPerDayBodyOilFAO            | Fish, Body Oil: Food supply (kcal/capita/day)                        | 2781      | 664          |
| AgFishCalPerCapPerDayCephalopodsFAO        | Cephalopods: Food supply (kcal/capita/day)                           | 2766      | 664          |
| AgFishCalPerCapPerDayCrustaceansFAO        | Crustaceans: Food supply (kcal/capita/day)                           | 2765      | 664          |
| AgFishCalPerCapPerDayDemersalFAO           | Demersal Fish: Food supply (kcal/capita/day)                         | 2762      | 664          |
| AgFishCalPerCapPerDayFreshwaterFAO         | Freshwater Fish: Food supply (kcal/capita/day)                       | 2761      | 664          |
| AgFishCalPerCapPerDayLiverOilFAO           | Fish, Liver Oil: Food supply (kcal/capita/day)                       | 2782      | 664          |
| AgFishCalPerCapPerDayMarineFAO             | Marine Fish, Other: Food supply (kcal/capita/day)                    | 2764      | 664          |
| AgFishCalPerCapPerDayMolluscsFAO           | Molluscs, Other: Food supply (kcal/capita/day)                       | 2767      | 664          |
| AgFishCalPerCapPerDayPelagicFAO            | Pelagic Fish: Food supply (kcal/capita/day)                          | 2763      | 664          |
| AgFishDomesticSupplyAqAnimalsFAO           | Aquatic Animals, Others: Domestic supply quantity                    | 2769      | 5301         |
| AgFishDomesticSupplyAqPlantsFAO            | Aquatic Plants: Domestic supply quantity                             | 2775      | 5301         |
| AgFishDomesticSupplyBodyOilFAO             | Fish, Body Oil: Domestic supply quantity                             | 2781      | 5301         |
| AgFishDomesticSupplyCephalopodsFAO         | Cephalopods: Domestic supply quantity                                | 2766      | 5301         |
| AgFishDomesticSupplyCrustaceansFAO         | Crustaceans: Domestic supply quantity                                | 2765      | 5301         |
| AgFishDomesticSupplyDemersalFAO            | Demersal Fish: Domestic supply quantity                              | 2762      | 5301         |
| AgFishDomesticSupplyFreshwaterFAO          | Freshwater Fish: Domestic supply quantity                            | 2761      | 5301         |
| AgFishDomesticSupplyLiverOilFAO            | Fish, Liver Oil: Domestic supply quantity                            | 2782      | 5301         |
| AgFishDomesticSupplyMarineFAO              | Marine Fish, Other: Domestic supply quantity                         | 2764      | 5301         |
| AgFishDomesticSupplyMolluscsFAO            | Molluscs, Other: Domestic supply quantity                            | 2767      | 5301         |
| AgFishDomesticSupplyPelagicFAO             | Pelagic Fish: Domestic supply quantity                               | 2763      | 5301         |
| AgFishExportsAqAnimalsFAO                  | Aquatic Animals, Others: Export Quantity                             | 2769      | 5911         |
| AgFishExportsAqPlantsFAO                   | Aquatic Plants: Export Quantity                                      | 2775      | 5911         |
| AgFishExportsBodyOilFAO                    | Fish, Body Oil: Export Quantity                                      | 2781      | 5911         |
| AgFishExportsCephalopodsFAO                | Cephalopods: Export Quantity   | 2766      | 5911         |
| AgFishExportsCrustaceansFAO                | Crustaceans: Export Quantity   | 2765      | 5911         |
| AgFishExportsDemersalFAO                   | Demersal Fish: Export Quantity                                       | 2762      | 5911         |
| AgFishExportsFreshwaterFAO                 | Freshwater Fish: Export Quantity                                     | 2761      | 5911         |
| AgFishExportsLiverOilFAO                   | Fish, Liver Oil: Export Quantity                                     | 2782      | 5911         |
| AgFishExportsMarineFAO                     | Marine Fish, Other: Export Quantity                                  | 2764      | 5911         |
| AgFishExportsMolluscsFAO                   | Molluscs, Other: Export Quantity                                     | 2767      | 5911         |
| AgFishExportsPelagicFAO                    | Pelagic Fish: Export Quantity  | 2763      | 5911         |
| AgFishFoodSupplyPerCapPerDayAqAnimalsFAO   | Aquatic Animals, Others: Food supply quantity (kg/capita/yr)         | 2769      | 645          |
| AgFishFoodSupplyPerCapPerDayAqPlantsFAO    | Aquatic Plants: Food supply quantity (kg/capita/yr)                  | 2775      | 645          |
| AgFishFoodSupplyPerCapPerDayBodyOilFAO     | Fish, Body Oil: Food supply quantity (kg/capita/yr)                  | 2781      | 645          |
| AgFishFoodSupplyPerCapPerDayCephalopodsFAO | Cephalopods: Food supply quantity (kg/capita/yr)                     | 2766      | 645          |
| AgFishFoodSupplyPerCapPerDayCrustaceansFAO | Crustaceans: Food supply quantity (kg/capita/yr)                     | 2765      | 645          |
| AgFishFoodSupplyPerCapPerDayDemersalFAO    | Demersal Fish: Food supply quantity (kg/capita/yr)                   | 2762      | 645          |
| AgFishFoodSupplyPerCapPerDayFreshwaterFAO  | Freshwater Fish: Food supply quantity (kg/capita/yr)                 | 2761      | 645          |
| AgFishFoodSupplyPerCapPerDayLiverOilFAO    | Fish, Liver Oil: Food supply quantity (kg/capita/yr)                 | 2782      | 645          |
| AgFishFoodSupplyPerCapPerDayMarineFAO      | Marine Fish, Other: Food supply quantity (kg/capita/yr)              | 2764      | 645          |
| AgFishFoodSupplyPerCapPerDayMolluscsFAO    | Molluscs, Other: Food supply quantity (kg/capita/yr)                 | 2767      | 645          |
| AgFishFoodSupplyPerCapPerDayPelagicFAO     | Pelagic Fish: Food supply quantity (kg/capita/yr)                    | 2763      | 645          |
| AgFishImportsAqAnimalsFAO                  | Aquatic Animals, Others: Import Quantity                             | 2769      | 5611         |
| AgFishImportsAqPlantsFAO                   | Aquatic Plants: Import Quantity                                      | 2775      | 5611         |
| AgFishImportsBodyOilFAO                    | Fish, Body Oil: Import Quantity                                      | 2781      | 5611         |
| AgFishImportsCephalopodsFAO                | Cephalopods: Import Quantity   | 2766      | 5611         |
| AgFishImportsCrustaceansFAO                | Crustaceans: Import Quantity   | 2765      | 5611         |
| AgFishImportsDemersalFAO                   | Demersal Fish: Import Quantity                                       | 2762      | 5611         |
| AgFishImportsFreshwaterFAO                 | Freshwater Fish: Import Quantity                                     | 2761      | 5611         |
| AgFishImportsLiverOilFAO                   | Fish, Liver Oil: Import Quantity                                     | 2782      | 5611         |
| AgFishImportsMarineFAO                     | Marine Fish, Other: Import Quantity                                  | 2764      | 5611         |
| AgFishImportsMolluscsFAO                   | Molluscs, Other: Import Quantity                                     | 2767      | 5611         |
| AgFishImportsPelagicFAO                    | Pelagic Fish: Import Quantity  | 2763      | 5611         |
| AgFishProdAqAnimalsFAO                     | Aquatic Animals, Others: Production                                  | 2769      | 5511         |
| AgFishProdAqPlantsFAO                      | Aquatic Plants: Production   | 2775      | 5511         |
| AgFishProdBodyOilFAO                       | Fish, Body Oil: Production   | 2781      | 5511         |
| AgFishProdCephalopodsFAO                   | Cephalopods: Production  | 2766      | 5511         |
| AgFishProdCrustaceansFAO                   | Crustaceans: Production  | 2765      | 5511         |
| AgFishProdDemersalFAO                      | Demersal Fish: Production  | 2762      | 5511         |
| AgFishProdFreshwaterFAO                    | Freshwater Fish: Production  | 2761      | 5511         |
| AgFishProdLiverOilFAO                      | Fish, Liver Oil: Production  | 2782      | 5511         |
| AgFishProdMarineFAO                        | Marine Fish, Other: Production                                       | 2764      | 5511         |
| AgFishProdMolluscsFAO                      | Molluscs, Other: Production  | 2767      | 5511         |
| AgFishProdPelagicFAO                       | Pelagic Fish: Production   | 2763      | 5511         |
| AgFishProteinPerCapPerDayAqAnimalsFAO      | Aquatic Animals, Others: Protein supply quantity (g/capita/day)      | 2769      | 674          |
| AgFishProteinPerCapPerDayAqPlantsFAO       | Aquatic Plants: Protein supply quantity (g/capita/day)               | 2775      | 674          |
| AgFishProteinPerCapPerDayBodyOilFAO        | Fish, Body Oil: Protein supply quantity (g/capita/day)               | 2781      | 674          |
| AgFishProteinPerCapPerDayCephalopodsFAO    | Cephalopods: Protein supply quantity (g/capita/day)                  | 2766      | 674          |
| AgFishProteinPerCapPerDayCrustaceansFAO    | Crustaceans: Protein supply quantity (g/capita/day)                  | 2765      | 674          |
| AgFishProteinPerCapPerDayDemersalFAO       | Demersal Fish: Protein supply quantity (g/capita/day)                | 2762      | 674          |
| AgFishProteinPerCapPerDayFreshwaterFAO     | Freshwater Fish: Protein supply quantity (g/capita/day)              | 2761      | 674          |
| AgFishProteinPerCapPerDayLiverOilFAO       | Fish, Liver Oil: Protein supply quantity (g/capita/day)              | 2782      | 674          |
| AgFishProteinPerCapPerDayMarineFAO         | Marine Fish, Other: Protein supply quantity (g/capita/day)           | 2764      | 674          |
| AgFishProteinPerCapPerDayMolluscsFAO       | Molluscs, Other: Protein supply quantity (g/capita/day)              | 2767      | 674          |
| AgFishProteinPerCapPerDayPelagicFAO        | Pelagic Fish: Protein supply quantity (g/capita/day)                 | 2763      | 674          |
| AgFishtFeedAqPlantsFAO                     | Aquatic Plants: Feed   | 2775      | 5521         |
| AgFishtFeedBodyOilFAO                      | Fish, Body Oil: Feed   | 2781      | 5521         |
| AgFishtFeedCephalopodsFAO                  | Cephalopods: Feed  | 2766      | 5521         |
| AgFishtFeedCrustaceansFAO                  | Crustaceans: Feed  | 2765      | 5521         |
| AgFishtFeedDemersalFAO                     | Demersal Fish: Feed  | 2762      | 5521         |
| AgFishtFeedFreshwaterFAO                   | Freshwater Fish: Feed  | 2761      | 5521         |
| AgFishtFeedLiverOilFAO                     | Fish, Liver Oil: Feed  | 2782      | 5521         |
| AgFishtFeedMarineFAO                       | Marine Fish, Other: Feed   | 2764      | 5521         |
| AgFishtFeedMolluscsFAO                     | Molluscs, Other: Feed  | 2767      | 5521         |
| AgFishtFeedPelagicFAO                      | Pelagic Fish: Feed   | 2763      | 5521         |
| AgFishtFeedAqAnimalsFAO                    | Aquatic Animals, Others: Food  | 2769      | 5142         |
| AgFishtFeedAqPlantsFAO                     | Aquatic Plants: Food   | 2775      | 5142         |
| AgFishtFeedBodyOilFAO                      | Fish, Body Oil: Food   | 2781      | 5142         |
| AgFishtFeedCephalopodsFAO                  | Cephalopods: Food  | 2766      | 5142         |
| AgFishtFeedCrustaceansFAO                  | Crustaceans: Food  | 2765      | 5142         |
| AgFishtFeedDemersalFAO                     | Demersal Fish: Food  | 2762      | 5142         |
| AgFishtFeedFreshwaterFAO                   | Freshwater Fish: Food  | 2761      | 5142         |
| AgFishtFeedLiverOilFAO                     | Fish, Liver Oil: Food  | 2782      | 5142         |
| AgFishtFeedMarineFAO                       | Marine Fish, Other: Food   | 2764      | 5142         |
| AgFishtFeedMolluscsFAO                     | Molluscs, Other: Food  | 2767      | 5142         |
| AgFishtFeedPelagicFAO                      | Pelagic Fish: Food   | 2763      | 5142         |
| AgFishtOtherUtilAqAnimalsFAO               | Aquatic Animals, Others: Other uses (non-food) & Tourist consumption | 2769      | 5154 & 5171  |
| AgFishtOtherUtilAqPlantsFAO                | Aquatic Plants: Other uses (non-food) & Tourist consumption          | 2775      | 5154 & 5171  |
| AgFishtOtherUtilBodyOilFAO                 | Fish, Body Oil: Other uses (non-food) & Tourist consumption          | 2781      | 5154 & 5171  |
| AgFishtOtherUtilCephalopodsFAO             | Cephalopods: Other uses (non-food) & Tourist consumption             | 2766      | 5154 & 5171  |
| AgFishtOtherUtilCrustaceansFAO             | Crustaceans: Other uses (non-food) & Tourist consumption             | 2765      | 5154 & 5171  |
| AgFishtOtherUtilDemersalFAO                | Demersal Fish: Other uses (non-food) & Tourist consumption           | 2762      | 5154 & 5171  |
| AgFishtOtherUtilFreshwaterFAO              | Freshwater Fish: Other uses (non-food) & Tourist consumption         | 2761      | 5154 & 5171  |
| AgFishtOtherUtilLiverOilFAO                | Fish, Liver Oil: Other uses (non-food) & Tourist consumption         | 2782      | 5154 & 5171  |
| AgFishtOtherUtilMarineFAO                  | Marine Fish, Other: Other uses (non-food) & Tourist consumption      | 2764      | 5154 & 5171  |
| AgFishtOtherUtilMolluscsFAO                | Molluscs, Other: Other uses (non-food) & Tourist consumption         | 2767      | 5154 & 5171  |
| AgFishtOtherUtilPelagicFAO                 | Pelagic Fish: Other uses (non-food) & Tourist consumption            | 2763      | 5154 & 5171  |
| AgFishtSeedAqAnimalsFAO                    | Aquatic Animals, Others: Seed  | 2769      | 5527         |
| AgFishtSeedCephalopodsFAO                  | Cephalopods: Seed  | 2766      | 5527         |
| AgFishtSeedCrustaceansFAO                  | Crustaceans: Seed  | 2765      | 5527         |
| AgFishtSeedDemersalFAO                     | Demersal Fish: Seed  | 2762      | 5527         |
| AgFishtSeedFreshwaterFAO                   | Freshwater Fish: Seed  | 2761      | 5527         |
| AgFishtSeedMarineFAO                       | Marine Fish, Other: Seed   | 2764      | 5527         |
| AgFishtSeedMolluscsFAO                     | Molluscs, Other: Seed  | 2767      | 5527         |
| AgFishtSeedPelagicFAO                      | Pelagic Fish: Seed   | 2763      | 5527         |
| AgMeatEx                                   | Meat: Export Quantity  | 2943      | 5911         |
| AgMeatIm                                   | Meat: Import Quantity  | 2943      | 5611         |
| AgMeatOtherProductionFAO                   | Meat, Other: Production  | 2735      | 5511         |
| AgMuttonandGoatMeatProductionFAO           | Mutton & Goat Meat: Production                                       | 2732      | 5511         |
| AgPigMeatProductionFAO                     | Pigmeat: Production  | 2733      | 5511         |
| AgPoultryMeatProductionFAO                 | Poultry Meat: Production   | 2734      | 5511         |
| AgProdCereals                              | Cereals - Excluding Beer: Production                                 | 2905      | 5511         |
| AgProdFruitsExclMelons                     | Fruits - Excluding Wine: Production                                  | 2919      | 5511         |
| AgProdPulses                               | Pulses: Production   | 2911      | 5511         |
| AgProdRootsTub                             | Starchy Roots: Production  | 2907      | 5511         |

Note: For "OtherUtil" series, the old "other utilizations" variable has been split into two new ones: "Tourist" food allocation (for now used in a limited number of countries where tourism has a very significant impact on food supply) and "Industrial non-food uses" (which should cover allocations to the textile, pharmaceutical, etc. industries). Thus, there are 2 Element Codes.

| AGCrop Series                   | Name in Source                                     | Element Code | Item Group |
|---------------------------------|--|--------------|------------|
| AGCropCalPerCapPerDayFAO        | Crops: Food supply (kcal/capita/day)               | 664          | Crops      |
| AGCropDomesticSupplyFAO         | Crops: Domestic supply quantity                    | 5301         | Crops      |
| AGCropExportsFAO                | Crops: Export Quantity                             | 5911         | Crops      |
| AGCropFoodSupplyPerCapPerDayFAO | Crops: Food supply quantity (kg/capita/yr)         | 645          | Crops      |
| AGCropImportsFAO                | Crops: Import Quantity                             | 5611         | Crops      |
| AGCropProductionFAO             | Crops: Production                                  | 5511         | Crops      |
| AGCropProteinPerCapPerDayFAO    | Crops: Protein supply quantity (g/capita/day)      | 674          | Crops      |
| AGCroptoFeedFAO                 | Crops: Feed  | 5521         | Crops      |
| AGCroptoFoodFAO                 | Crops: Food  | 5142         | Crops      |
| AGCroptoFoodManuFAO             | Crops: Processing                                  | 5131         | Crops      |
| AGCroptoOtherUtilFAO            | Crops: Other uses (non-food) & Tourist consumption | 5154 & 5171  | Crops      |
| AGCroptoSeedFAO                 | Crops: Seed  | 5527         | Crops      |
| AGCroptoWasteFAO                | Crops: Losses                                      | 5123         | Crops      |

#### Items in Crops Group:

| Item                     | Item Code |
|--------------------------|-----------|
| Alcohol, Non-Food        | 2659      |
| Cereals - Excluding Beer | 2905      |
| Starchy Roots            | 2907      |
| Sugar Crops              | 2908      |
| Sugar & Sweeteners       | 2909      |
| Pulses                   | 2911      |
| Treenuts                 | 2912      |
| Oilcrops                 | 2913      |
| Vegetable Oils           | 2914      |
| Vegetables               | 2918      |
| Fruits - Excluding Wine  | 2919      |
| Stimulants               | 2922      |
| Spices                   | 2923      |
| Alcoholic Beverages      | 2924      |
| Miscellaneous            | 2928      |

| AGMeat Series                   | Name in Source                                    | Item Code | Element Code |
|---------------------------------|---|-----------|--------------|
| AGMeatCalPerCapPerDayFAO        | Meat: Food supply (kcal/capita/day)               | 2943      | 664          |
| AGMeatDomesticSupplyFAO         | Meat: Domestic supply quantity                    | 2943      | 5301         |
| AGMeatExportsFAO                | Meat: Export Quantity                             | 2943      | 5911         |
| AGMeatFoodSupplyPerCapPerDayFAO | Meat: Food supply quantity (kg/capita/yr)         | 2943      | 645          |
| AGMeatImportsFAO                | Meat: Import Quantity                             | 2943      | 5611         |
| AGMeatProductionFAO             | Meat: Production                                  | 2943      | 5511         |
| AGMeatProteinPerCapPerDayFAO    | Meat: Protein supply quantity (g/capita/day)      | 2943      | 674          |
| AGMeattoFeedFAO                 | Meat: Feed  | 2943      | 5521         |
| AGMeattoFoodFAO                 | Meat: Food  | 2943      | 5142         |
| AGMeattoFoodManuFAO             | Meat: Processing                                  | 2943      | 5131         |
| AGMeattoOtherUtilFAO            | Meat: Other uses (non-food) & Tourist consumption | 2943      | 5154 & 5171  |
| AGMeattoSeedFAO                 | Meat: Seed  | 2943      | 5527         |
| AGMeattoWasteFAO                | Meat: Losses                                      | 2943      | 5123         |

| FruVeg Series Name in Source       | Element Code | Item Group |
|------------------------------------|--------------|------------|
| AgFruVegEx FruVeg: Export Quantity | 5911         | FruVeg     |
| AgFruVegIm FruVeg: Import Quantity | 5611         | FruVeg     |

Items in FruVeg Group:

| Item                    | Item Code |
|-------------------------|-----------|
| Fruits - Excluding Wine | 2919      |
| Vegetables              | 2918      |

| Variable   | Name in Source          | Item Code | Element Code |
|------------|-------------------------|-----------|--------------|
| AgPulsesEx | Pulses: Export Quantity | 2911      | 5911         |
| AgPulsesIm | Pulses: Import Quantity | 2911      | 5611         |

## Instructions for pulling FAOSTAT FBS series

The FAOSTAT FBS series are blended from two datasets: The historical data goes from 1961 to 2009 while the preliminary data goes from 2010 to 2021. Both datasets are from the FAOSTAT website.

1. The data can be accessed on the FAOSTAT website. Historical data series are available here <<http://www.fao.org/faostat/en/#data/FBSH>> and preliminary data series are available here <<http://www.fao.org/faostat/en/#data/FBS>>.
2. Download 'All Data' under Bulk Downloads.
3. Apply Python script.
4. There are 160 series in Total. The series are sorted by category in the tables above.
  - 130 standard series,

| Element                                     | Count |
|---|-------|
| Food supply quantity (kg/capita/yr)         | 11    |
| Food supply (kcal/capita/day)               | 11    |
| Protein supply quantity (g/capita/day)      | 11    |
| Food  | 11    |
| Domestic supply quantity                    | 11    |
| Production                                  | 20    |
| Feed  | 10    |
| Seed  | 8     |
| Import Quantity                             | 13    |
| Export Quantity                             | 13    |
| Other uses (non-food) & Tourist consumption | 11    |

- 13 series starting with "AGCrop",
  - 13 series starting with "AGMeat",
  - 2 series starting with "AgFruVeg",
  - 2 series starting with "AgPulses".
5. The following states are included in FAOSTAT countries, but we do not have them in IFs Countries. You will need to copy and paste the data from the below dissolved states into their new states (The general rule about merging data between current states and their former dissolved states is whichever state that inherited the capital city has the right to claim data from its former dissolved state):

- China, mainland --> China
- Czechoslovakia --> Czech Republic
- Ethiopia PDR --> Ethiopia
- USSR --> Russian Federation
- Yugoslav SFR --> Serbia
- Serbia and Montenegro --> Serbia
- Sudan (former) --> Sudan

6. When take the sum of items under crops/fruveg group, be aware that sum of null is null instead of 0.

## **2020 Update**

For the 2020 update, the FAOSTAT FBS series were pulled using Python. The Python code can be accessed through the Pardee Data Team.

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