

# INTERNAL FILES INFOS

## <Some files changes include :>

- files parsed from weird formats OR transformed into a certain format (CRU/BCG files)

- empty data filling > later will be handled by models (the vision)

>>

- fields changed for others on certain versions -> (eg. quantite facturee reajustee -> use of quantite facturee on last version, FOB negative -> eliminate the data row, Djibouti renamed Ethiopia, if no montant fob given then calculate it through Prix \* quantity)

- have one name for each product across all files (example P205 same as Phosphorus pentoxide elsewhere)

- for Prod\_ file, units are 000 metric tons/year for urea and kt/y for phosphate

- fields can have different names per versions(Capitals, extra spaces)

- add subregion for each country

- added extra fields (project is operational or not (consider all plants as projects -may or may not be operational-), calculate avg from a string like "230 - 300")

- data aggregation (Cru Data / Premium week data)

- merge geolocations of companies with prod\_ companie

- files may have different versions structures + fields names

- files to update a dataset may differ between two structures

- lifemoz map data blended with the OSL/AGRIBOOSTERS... programs that are given on the excel attached to map data excel

- save dates dd/mm/yyyy

- each file filtered for the data given in the json file structures

- > each file wanted structure / fields is the structure of the json files

# AFRICA FERTILIZER (SCRAPPED API LINKS)

Note : for the APIS they may timeout and throw errors and such, doesn't mean data doesn't exist, just retry until it's working

## Data:

imports:

- 1 - Fertilizers Total Import Volumes by Country Over Time (17 countries)
- 2 - Fertilizers Annual Import Volumes by Product (13 products 17 countries)

exports:

- 3 - Fertilizers Total Export Volumes by Country Over Time (12 country)
- 4 - Fertilizers Annual Export Volumes by Product (up until 2022 / 12 countries 5 products )

volumes:

- 5 -Total Fertilizer Production Volumes by Country Over Time (9 countries)

prices:

- 6 - Fertilizers Historical International Price Trends (for 16 products)

Country-wise Fertilizer Data:

7 - Apparent Fertilizer Consumption by Country

8 - National Average Fertilizer Consumption

## REQUEST HEADERS

headers for the next requests will be:

```
"  
"headers": {  
  "accept": "application/json",  
  "accept-language": "en-US,en;q=0.9",  
  "content-type": "application/json",  
  "sec-ch-ua": "\"Chromium\";v=\"116\", \"Not)A;Brand\";v=\"24\", \"Google Chrome\";v=\"116\"",  
  "sec-ch-ua-mobile": "?0",  
  "sec-ch-ua-platform": "\"Windows\"",  
  "sec-fetch-dest": "empty",  
  "sec-fetch-mode": "cors",  
  "sec-fetch-site": "cross-site",  
  "Referer": "https://africafertilizer.org/",  
  "Referrer-Policy": "strict-origin-when-cross-origin"  
},  
"
```

## REQUEST LINKS AND REQUEST BODY

1)

```
const link = 'https://admin.vifaakenya.org/api/imports/regional/totalImportVolumesByCountry'
const body = {
  "years": [2023, 2022, 2021, 2020, 2019, 2018, 2017, 2016, 2015, 2014],
  "countriesSelected": [800519, 978660, 2, 805187, 683945, 3, 804180, 670465, 804873, 710067,
708364, 1, 777170, 804482, 690942, 778657, 805560],
  "lang": "en"
}
```

2)

```
const year = 2023;
const link = 'https://admin.vifaakenya.org/api/imports/regional/byCountry'
const body = {
  yearSelected: year,
  countriesSelected: [800519, 978660, 2, 805187, 683945, 3, 804180, 670465, 804873, 710067,
708364, 1, 777170, 804482, 690942, 778657, 805560],
  productsSelected: [17, 287, 13, 285, 11, 281, 7, 278, 21, 52, 276, 274, 0],
  lang: "en"
}
```

3)

```
const link = "https://admin.vifaakenya.org/api/exports/regional/totalExportVolumesByCountry"
const body = {
  "years": [2023, 2022, 2021, 2020, 2019, 2018, 2017, 2016, 2015, 2014],
  "countriesSelected": [2, 805187, 683945, 3, 804180, 670465, 804873, 708364, 777170, 804482,
690942, 805560],
  "lang": "en"
}
```

4)

```
const link = "https://admin.vifaakenya.org/api/exports/regional/byCountry";
const body = {
  "yearSelected": 2022,
  "countriesSelected": [800519, 2, 805187, 683945, 3, 804180, 670465, 804873, 708364, 777170,
804482, 690942, 805560],
  "productsSelected": [13, 281, 21, 52, 0],
  "lang": "en"
};
```

5)

```
const link = "https://admin.vifaakenya.org/api/production/regional/totalProductionVolumesByCountry"
const body = {
  "years": [2023, 2022, 2021, 2020, 2019, 2018, 2017, 2016, 2015, 2014, 2013, 2012, 2011, 2010],
  "countriesSelected": [2, 3, 670465, 683945, 777170, 804180, 804482, 805187, 805560],
  "productsSelected": [13, 17, 281, 287, 52, 0],
  "lang": "en"
}
```

6)

```
const link = "https://admin.vifaakenya.org/api/fob/historicalSeriesByProducts"
const body = {
  "productOriginsSelected": [2041604, 22030, 22033, 22035, 82621, 22047, 22049, 22051, 22031,
22055, 22039, 22038, 22041, 22037, 22043, 22045],
  "dates": [],
  "unit": "USD_MT",
  "currencyCode": "USD",
```

```
"lang": "en"  
}
```

7)

```
const link = "https://admin.vifaakenya.org/api/consumption/ApparentConsumption"
```

```
const year = 2022
```

```
const body = {
```

```
  "yearSelected": year,
```

```
  "countriesSelected": [800519, 978660, 2, 805187, 683945, 3, 804180, 670465, 804873, 708364,  
710067, 777170, 1, 804482, 690942],
```

```
  "productsSelected": [0, 7, 11, 13, 17, 21, 52, 274, 276, 278, 281, 285, 287],
```

```
  "lang": "en"
```

```
}
```

8)

For this there's a request for each country (there's two types of responses for these countries):

> *National Average Fertilizer Consumption - by Product Ton (straight forward)*

example in : <https://viz.africafertilizer.org/#/nigeria/use>

> *National Average Fertilizer Consumption (needs translating x to years and y to value per ton)*

example in: <https://viz.africafertilizer.org/#/kenya/use>

**This Data is by cropland not by Nutrient (nutrient exists for only 6 out of 8) can**

**add it upon request**

### Kenya :

```
{  
  kenya :  
  const link = "https://admin.vifaakenya.org/api/consumption/consumptionByProduct";  
  const body = {  
    "nutrients": [2768212, 2768213, 2768211],  
    "years": [2022, 2021, 2020, 2019, 2018, 2017, 2016, 2015, 2014, 2013, 2012],  
    "landArea": 125895,  
    "zoneSelected": false,  
    "treePlantation": false,  
    "countryIso": "KE",  
    "lang": "en"  
  };  
}
```

### Nigeria :

```
{  
  const link = "https://admin.vifaakenya.org/api/consumption/consumptionByCropland"  
  
  const body = {  
    "years": [2023, 2022, 2021, 2020, 2019, 2018, 2017, 2016, 2015, 2014, 2013],  
    "dataSources": [125897, 125898],  
  }  
}
```

```
"zoneSelected": false,  
"treePlantation": false,  
"countryIso": "NG",  
"lang": "en"  
}
```

```
}
```

### **Ghana:**

```
{  
  Const link = "https://admin.vifaakenya.org/api/consumption/consumptionByCropland"
```

```
  const body = {  
    "years": [2023, 2022, 2021, 2020, 2019, 2018, 2017, 2016, 2015, 2014, 2013],  
    "dataSources": [125897, 125898],  
    "zoneSelected": false,  
    "treePlantation": false,  
    "countryIso": "GH",  
    "lang": "en"  
  }  
}
```

### **Senegal:**



```
{  
  
  const link = "https://admin.vifaakenya.org/api/consumption/consumptionByProduct";  
  const body = {  
    "nutrients": [2768212, 2768213, 2768211],  
    "years": [2022, 2021, 2020, 2019, 2018, 2017, 2016],  
    "landArea": 125895,  
    "zoneSelected": false,  
    "treePlantation": false,  
    "countryIso": "SN",  
    "lang": "en"  
  };  
}
```

## **Zambia:**

```
{  
  
  const link = "https://admin.vifaakenya.org/api/consumption/consumptionByProduct";  
  const body = {  
    "nutrients": [2768212, 2768213, 2768211],  
    "years": [2022, 2021, 2020, 2019, 2018, 2017, 2016, 2015, 2014],  
    "landArea": 125895,  
    "zoneSelected": false,  
    "treePlantation": false,  
  }  
}
```

```
    "countryIso": "ZM",  
    "lang": "en"  
  };  
}
```

## Malawi:

```
{  
  const link = "https://admin.vifaakenya.org/api/consumption/consumptionByProduct";  
  const body = {  
    "nutrients": [2768212, 2768213, 2768211],  
    "years": [2022, 2021, 2020, 2019, 2018, 2017, 2016],  
    "landArea": 125895,  
    "zoneSelected": false,  
    "treePlantation": false,  
    "countryIso": "MW",  
    "lang": "en"  
  };  
}
```

## Ethiopia:

```
{  
  const link = "https://admin.vifaakenya.org/api/consumption/consumptionByProduct";  
  const body = {  
    "nutrients": [2768212, 2768213, 2768211],  
    "years": [2022, 2021, 2020, 2018, 2017, 2016, 2015, 2014, 2013, 2012, 2011],  
    "landArea": 125895,  
    "zoneSelected": false,  
    "treePlantation": false,  
  }
```

```
"countryIso": "ET",  
  "lang": "en"  
};  
}
```

## IMF API DATA

For this Public Api there's countries dictionary which you'll find attached to the email

🔍 Gross public debt, percent of GDP

<https://www.imf.org/external/datamapper/api/v1/d>

🔍 Reserves (Months of Imports)

(This will probably be neglected due to having Official Reserve Assets from worldbank)

[https://www.imf.org/external/datamapper/api/v1/BRASS MI](https://www.imf.org/external/datamapper/api/v1/BRASS_MI)

## >update frequency

imf:

IMF updated monthly / quarterly

#### VIFA:

Market Prices: Updated weekly

Fertilizer Demand and Supply: Updated monthly

Fertilizer Policies and Regulations: Updated quarterly

Fertilizer Research and Development: Updated annually

#### Internal files:

plants : annual

capacities : quarterly

CRU + premium : weekly

sales :? to be discussed with saad

bcg :? to be discussed with saad

#### **EXTRA:**

- There's still few in real time Apis to be added such as Refinitiv/Bloomberg And the marine tracking Api