

Nick Murray - Data Product Design at Gro Intelligence

The following screenshots showcase my work at Gro Intelligence from 2021-2022. For any questions or other materials, please don't hesitate to contact me directly:

nicholasdmurray@gmail.com

(917)-386-3609

<http://nickm.io>

About [Gro Intelligence](#)

Gro Intelligence empowers customers to make data driven decisions around responding to climate change impacts, and raising the efficiency of agricultural supply chains to support the activities of farmers and their customers. Gro's users also include sovereign governments and multinational donors, who employ Gro's analytics to promote and maintain food security among vulnerable populations.

My role has been to lead the design process behind both our paid analytics tools, and our public facing data products, screenshots below. For more details on select work, please refer to the "Case Studies" section of [my portfolio](#).

Carbon Barometer - Comparing Climate Policy across the Globe

Purpose: Many policy mechanisms exist for regulating carbon emissions by effectively "pricing carbon," or incentivising the use of green technology. Experts at Gro Intelligence have recently developed a Carbon Price Index (CPI) that accounts for seven different policy types in its generation of a single, national level carbon price for over 25 countries, adjusted for each country's emission levels.

Our public facing Carbon Barometer (URL pending) highlights the differences in carbon pricing policy across participating countries, providing a launching point for multilateral agencies, fund managers, and NGOs to outline their support for national governments in their strategies for regulating carbon emissions.

Launching: October 2022

Development Partner: [Kepos Capital](#)

Public URL: Pending

Pricing Carbon Policy Impact - Globally



The Gro-Kepos Carbon Barometer tracks 7 policies globally for 20+ countries, and normalizes each policy into a standard USD per ton of CO2 Emissions.

The Carbon Barometer aims to contribute to growing research on carbon prices - by governments, investors, companies, and researchers. Gro's focus is to act as a synthesizer through value-added data ingestion, normalization, and visualization to put this information in the hands of decision makers.

Global Carbon Prices

Policy by Country

Select Metric

- Carbon Price Index (CPI)
- Carbon Policy Spend as % of GDP

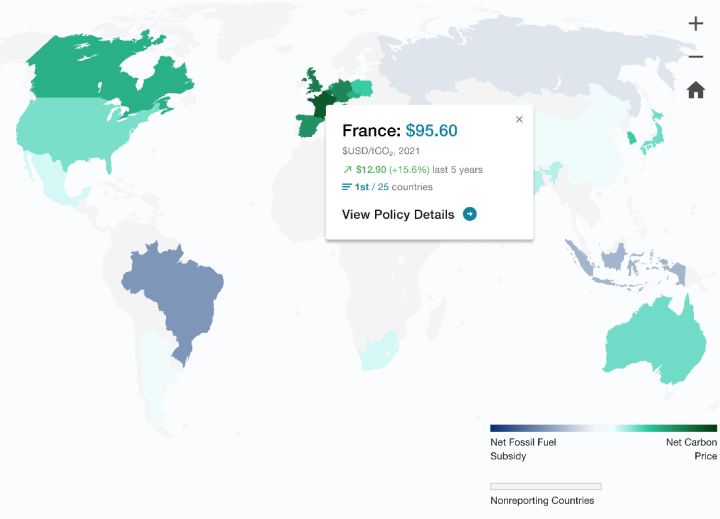
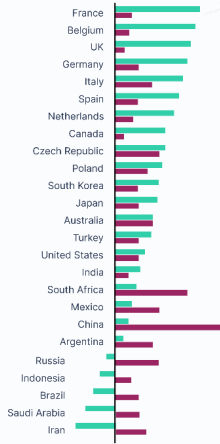
The Carbon Barometer price is a country-level price per ton of CO2 emissions, implied by emissions reduction policies. The price is developed by aggregating together seven different policies. A higher Carbon Barometer price implies that emitters must pay a higher premium, meaning that a country is stricter on its emissions policies. Additional details can be found in our [documentation](#).

Carbon Price Index (CPI), Participating Countries, 2021

Global Carbon Price Index (CPI) **\$15.98**
USD/tCO2

CPI vs. Emissions per Capita, 2021

- Carbon Price Index (CPI), USD/tCO2
- Total Carbon Emissions, MtCO2



Learn more about our partnerships

Contact us



Access to this application is subject to the Terms of Service or to any separate agreement that you have executed with Gro Intelligence. For purposes of the Terms of Service or any such agreement, this application shall be deemed to be subject to the usage restrictions, limitations and requirements, and other terms and conditions of the other products and services that you have subscribed to from Gro Intelligence.

Pricing Carbon Policy Impact - Globally



The Gro-Kepos Carbon Barometer tracks 7 policies globally for 20+ countries, and normalizes each policy into a standard USD per ton of CO2 Emissions.

The Carbon Barometer aims to contribute to growing research on carbon prices - by governments, investors, companies, and researchers. Gro's focus is to act as a synthesizer through value-added data ingestion, normalization, and visualization to put this information in the hands of decision makers.

Global Carbon Prices Policy by Country

Each row shows a single country and the statistics available through the Carbon Barometer. Users can dive into the data and sort based on any metric, and get a quick understanding of how countries compare on carbon prices. Additional details can be found in our [documentation](#).

Data source: [Gro Intelligence](#)
Last updated: **Oct 2, 2022**

Policy Overview Policy Breakdown

Year: 2021 | Region: All | Income Group: All | Country: All | [Export \(.csv\)](#)

Country	Carbon Price Index (CPI) USD/tCO ₂	Total Emissions MtCO ₂	Carbon Policy Spend, as % of GDP %GDP	Policy Evolution
France	\$95.60	330	XX%	
Belgium	\$92.90	126	XX%	
U.K.	\$80.50	468	XX%	
Germany	\$67.40	759	XX%	
Italy	\$63.00	369	XX%	
Spain	\$61.10	298	XX%	
Netherlands	\$55.30	214	XX%	
Canada	\$45.50	539	XX%	
Czech Republic	\$45.10	108	XX%	
Poland	\$41.90	310	XX%	



Learn more about our partnerships

Contact us



Access to this application is subject to the Terms of Service or to any separate agreement that you have executed with Gro Intelligence. For purposes of the Terms of Service or any such agreement, this application shall be deemed to be subject to the usage restrictions, limitations and requirements, and other terms and conditions of the other products and services that you have subscribed to from Gro Intelligence.

Pricing Carbon Policy Impact - Globally



The Gro-Kepos Carbon Barometer tracks 7 policies globally for 20+ countries, and normalizes each policy into a standard USD per ton of CO2 Emissions.

The Carbon Barometer aims to contribute to growing research on carbon prices - by governments, investors, companies, and researchers. Gro's focus is to act as a synthesizer through value-added data ingestion, normalization, and visualization to put this information in the hands of decision makers.

Global Carbon Prices Policy by Country

Each row shows a single country and the statistics available through the Carbon Barometer. Users can dive into the data and sort based on any metric, and get a quick understanding of how countries compare on carbon prices. Additional details can be found in our [documentation](#).

Data source: [Gro Intelligence](#)
Last updated: **Oct 2, 2022**

Policy Overview Policy Breakdown

Year	Region	Income Group	Country	Export (csv)					
2021	All	All	All						
Country	Carbon Price Index (CPI) \$USD/tCO ₂	Fossil Fuel Subsidy \$USD/tCO ₂	Carbon Tax \$USD/tCO ₂	Emissions Trading Scheme \$USD/tCO ₂	Fossil Fuel Tax \$USD/tCO ₂	Feed in Tariff \$USD/tCO ₂	Low Carbon Fuel Std. \$USD/tCO ₂	Renewable Portfolio Std. \$USD/tCO ₂	
France	\$65.60	-\$9.00	\$9.00	--	\$28.90	--	--	--	
Belgium	\$82.90	-\$3.10	--	\$0.50	\$7.40	--	--	\$6.80	
U.K.	\$80.50	-\$15.10	\$1.10	--	\$37.90	\$1.50	--	\$5.80	
Germany	\$67.40	-\$4.70	--	--	\$44.30	\$6.60	--	--	
Italy	\$83.00	-\$9.50	--	--	\$29.70	\$0.30	--	--	
Spain	\$61.10	-\$2.20	\$0.10	\$1.20	\$16.40	\$1.50	--	--	
Netherlands	\$55.30	-\$0.20	--	\$0.80	\$9.20	\$0.80	--	--	
Canada	\$45.50	-\$2.21	\$3.50	\$1.30	\$13.80	\$0.40	\$0.10	\$8.40	
Czech Republic	\$45.10	-\$0.10	--	\$0.20	\$3.90	\$0.50	--	--	
Poland	\$41.90	-\$1.10	--	\$0.50	\$9.10	--	--	\$4.30	



Learn more about our partnerships

Contact us



Access to this application is subject to the Terms of Service or to any separate agreement that you have executed with Gro Intelligence. For purposes of the Terms of Service or any such agreement, this application shall be deemed to be subject to the usage restrictions, limitations and requirements, and other terms and conditions of the other products and services that you have subscribed to from Gro Intelligence.

Food Security Tracker - Directing Donor Support for Promoting Food Security

Purpose: Supply chain imbalances, and the war in Ukraine have resulted in a spike in global food prices, putting enhanced pressure on food importers in Africa, many of whom were already struggling to maintain food security. Our public facing [Food Security Tracker](#) highlights nations most at risk, and provides the detail necessary for donors to effectively target their support efforts.

Launched: April 2022

Client: [The Rockefeller Foundation](#)

Public URL: <https://community.gro-intelligence.com/food-security-tracker-africa>

Tracking Food Security Across Africa

Environmental, economic, and political shocks are driving rising food prices and limiting access to major crop staples.

Leveraging both the domain expertise of the Gro team and the most comprehensive, up-to-date data on the African continent, this interactive tool provides estimates on supply and demand for four major crops in Africa: wheat, rice, corn, and soybeans. It also shows the relative impact on food security by country.



[Explore 49 African Countries](#)

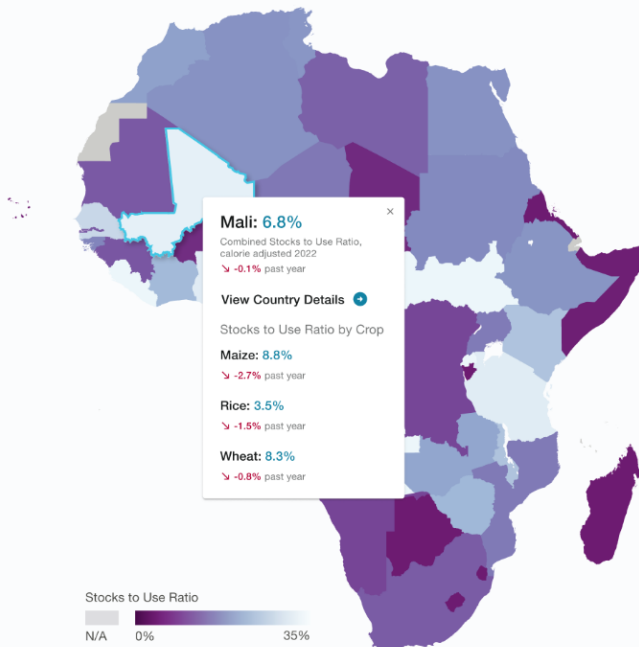
Stocks-To-Use Ratio

Gro Drought Index (GDI)

A country's reserves of a specific crop is an indicator of food security. A stocks-to-use ratio shows the relationship between stocks and usage. Lower stocks-to-use ratios indicate higher food insecurity.

Gro's Stocks-to-Use Ratio below shows the stocks-to-use across four major crops for countries in Africa. The darker colors indicate countries that are facing tighter supplies and higher risks of food insecurity. Where applicable, the calculation uses Gro's production forecast in place of the USDA's. Last updated May 3, 2022.

Click any country for details.



COUNTRIES WITH LOWEST STOCKS TO USE RATIO - COMBINED ACROSS CROPS

- Madagascar
- Zimbabwe
- Chad
- Benin
- Gambia

COUNTRIES WITH FASTEST FALLING STOCKS TO USE RATIO - COMBINED ACROSS CROPS

- Zimbabwe
- Zambia
- Ghana
- Angola
- Gambia

In the News

Impact Of Russia-Ukraine Conflict On Global Ag

Feb 24, 2022

Given the two countries' importance to export markets, and the relationship between energy and ag prices, the conflict will impact agriculture and food supplies across the globe.

North Africa Wheat Imports Could Jump As Region Battles Drought

Jan 18, 2022

An increased reliance on imports could potentially strain national budgets and further fuel food price inflation.



Tracking Food Security Across Africa

Environmental, economic, and political shocks are driving rising food prices and limiting access to major crop staples.

Leveraging both the domain expertise of the Gro team and the most comprehensive, up-to-date data on the African continent, this interactive tool provides estimates on supply and demand for four major crops in Africa: wheat, rice, corn, and soybeans. It also shows the relative impact on food security by country.



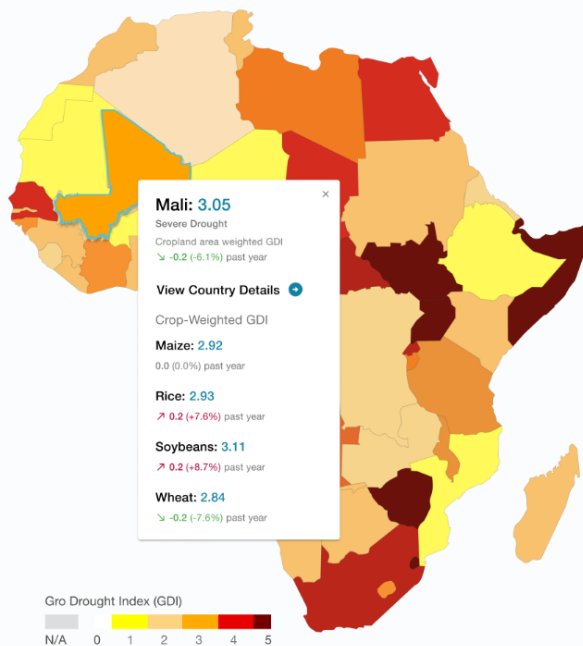
[Explore 49 African Countries](#) →

Stock-to-Use Ratio ⓘ

Gro Drought Index (GDI) ⓘ

The Gro Drought Index below shows weekly-updating drought conditions throughout Africa at the country level. Darker colors represent countries facing higher levels of drought, one of the leading indicators of reduced local production and an early warning of food insecurity. The values are weighted by cropland at the district level for each country. Last updated May 3, 2022.

Click any country for details.



COUNTRIES WITH HIGHEST GRO DROUGHT INDEX ⓘ

- Somalia
- Mauritania
- Mali
- Morocco
- Niger

COUNTRIES WITH FASTEST RISING GRO DROUGHT INDEX ⓘ

- Kenya
- Uganda
- Tanzania
- Somalia
- Morocco

In the News

Impact Of Russia-Ukraine Conflict On Global Ag ⓘ

Feb 24, 2022

Given the two countries' importance to export markets, and the relationship between energy and ag prices, the conflict will impact agriculture and food supplies across the globe.

North Africa Wheat Imports Could Jump As Region Battles Drought ⓘ

Jan 18, 2022

An increased reliance on imports could potentially strain national budgets and further fuel food price inflation.



Back

Country / Region
Mali

Commodity
Rice

Data source: Gro Intelligence
Last updated: Apr 26, 2022

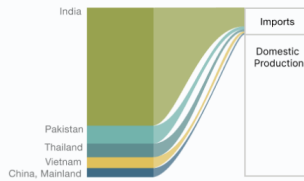
Mali - Rice Supply & Demand Overview

Download Dataset (.xlsx)

STOCKS TO USE - RICE 3.47% <small>▼ -1.5% past year</small>	RICE PRICE / TONNE 347 \$USD/tonne <small>▼ -64.13 (-15.6%) past year</small>	GRO PROD. FORECAST, 2022 2,235 thousand tonnes <small>▲ +198 (+9.7%) past year</small>	GRO DROUGHT INDEX 2.93 (extreme drought) <small>▲ +0.21 (+7.6%) past year</small>	VEG. HEALTH INDEX (NDVI) 0.21 <small>▼ -0.01 (-6.7%) past year</small>
---	---	--	---	--

Import/Export Summary - Rice

Imports From



Exports To



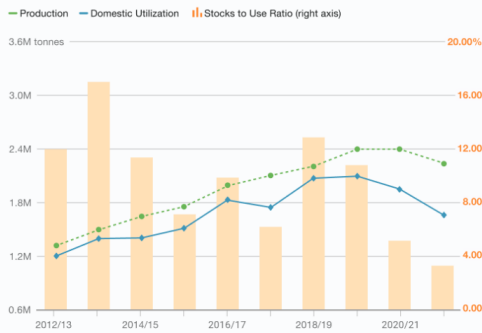
Source: Gro Intelligence, Comtrade. Last Updated: Apr 26, 2022

Balance Sheet - Supply & Demand - Rice

Elements	10 Year Average	2019/20	2020/21 estimate	2021/22 forecast
<i>Thousand tonnes</i>				
Gro Production Estimate	--	--	2,037	2,235
<i>Supply</i>				
Beginning Stocks	184	284	261 (-8.1%)	120 (-54.0%)
Production	1,693	2,077	1,959 (-5.6%)	1,658 (-15.4%)
Imports	252	300	300 (0%)	550 (+83.3%)
Total Supply	2,129	2,661	2,520 (-5.3%)	2,328 (-7.6%)
<i>Demand</i>				
Export Volume	0	0	0	0
Domestic Consumption	1,950	2,400	2,400 (0%)	2,250 (-6.2%)
Total Use	1,950	2,400	2,400 (0%)	2,250 (-6.3%)
Ending Stocks	179	261	120 (-54.0%)	78 (-35.0%)
Stocks to Use Ratio	9.58%	10.9%	5.0% (-5.9%)	3.5% (-1.5%)

Source: Gro Intelligence, USDA PS&D. Last Updated: Apr 28, 2022

Production & Utilization to Date - Rice



Source: Gro Intelligence, USDA PS&D. Last Updated: Apr 28, 2022

Global Fertilizer Impact Monitor - Communicating the Food Security Impact of Fertilizer Shortages

Purpose: Exacerbated by the conflict in Ukraine, a global fertilizer shortage has brought a spike in fertilizer prices. This has significant implications for food security, as it affects the volume of staple crops farmers are able to produce, especially in low income countries.

The [Global Fertilizer Impact Monitor](#) summarizes this impact in calories, putting a spotlight on how integral fertilizer markets are to food security worldwide. Like the [Food Security Tracker](#), this public-facing website aims to direct the efforts of multinational donors in their approach to combating food insecurity.

Launched: June 2022

Client: [The Bill & Melinda Gates Foundation](#)

Public URL: <https://community.gro-intelligence.com/global-fertilizer-impact-monitor/>

Tracking the Impact of Fertilizer Shortage on Global Food Security

Unprecedented supply and demand shocks are causing significant fertilizer shortages and soaring prices worldwide. With this scenario explorer tool, see the impact of changing fertilizer availability scenarios on global food production, and the resulting risks to food security.

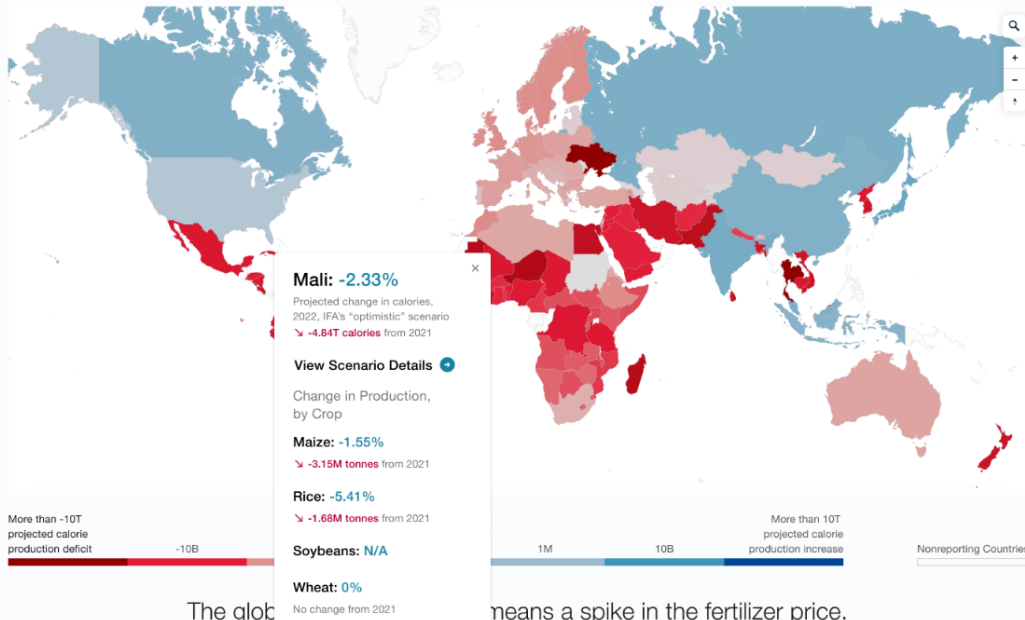
Explore Scenarios for
Global Population

Select scenario

A change in annual global nitrogen fertilizer application based on IFA's "optimistic" scenario

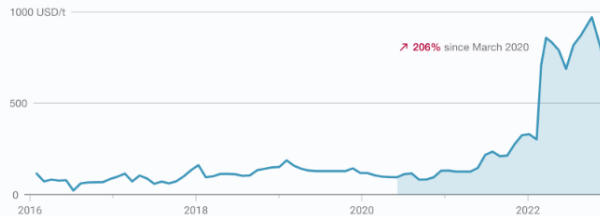
will lead to a production loss of 28 trillion calories.*

Projected Production Change in Calories, International Fertilizer Association (IFA) "Optimistic" Scenario, 2022



The global fertilizer price spike means a spike in the fertilizer price. Because farmers cannot afford the fertilizer they need, food yields suffer.

Global Nitrogen Fertilizer Price: \$707.50 USD/t



Source: Gro Intelligence, GEM Commodities. Monthly F.O.B. Price, Middle East - Urea (nominal USD).
Current as of: June 17, 2022.
Current as of: Apr 28, 2022

*Read more about our Methodology [here](#)

Tracking the Impact of Fertilizer Shortage on Global Food Security

Unprecedented supply and demand shocks are causing significant fertilizer shortages and soaring prices worldwide. With this scenario explorer tool, see the impact of changing fertilizer availability scenarios on global food production, and the resulting risks to food security.

Explore Scenarios for

Global Population



A change in annual global nitrogen fertilizer application based on **IFA's "optimistic" scenario** will lead to a production loss of **28 trillion calories**

Select scenario

IFA's "optimistic" scenario

Fertilizer shortage scenarios
Ordered by source and calorie loss (low to high)

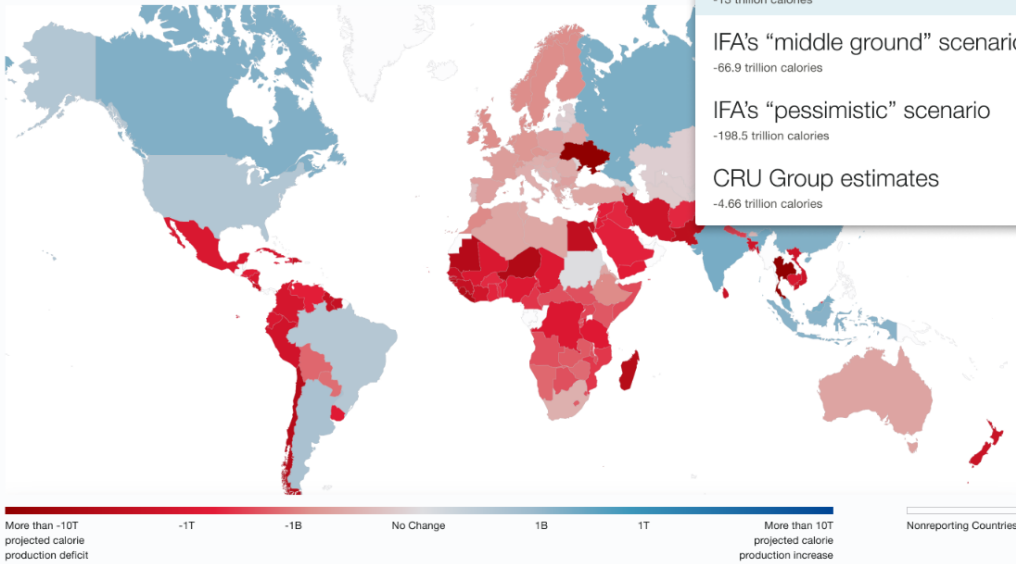
IFA's "optimistic" scenario
-13 trillion calories

IFA's "middle ground" scenario
-66.9 trillion calories

IFA's "pessimistic" scenario
-198.5 trillion calories

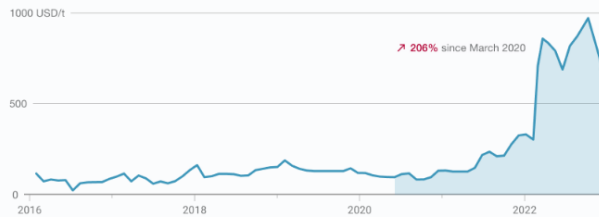
CRU Group estimates
-4.66 trillion calories

Projected Production Change in Calories, International Fertilizer Association



The global fertilizer shortage means a spike in the fertilizer price. Because farmers cannot afford the fertilizer they need, food yields suffer.

Global Nitrogen Fertilizer Price: \$707.50 USD/t



Source: Gro Intelligence, GEM Commodities. Monthly F.O.B. Price, Middle East - Urea (nominal USD).
Current as of: June 17, 2022.
Current as of: Apr 28, 2022

*Read more about our Methodology [here](#)

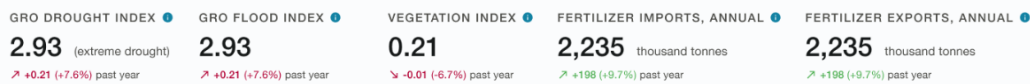
Back

Country
Mali

Data source: [Gro Intelligence](#)

Current as of: Jun 17, 2022

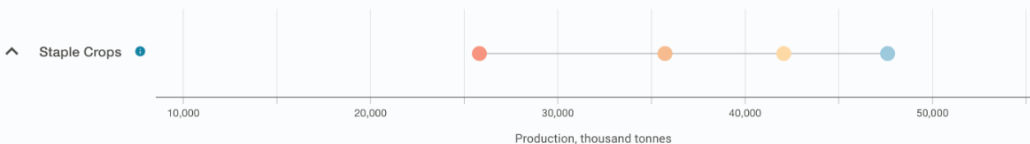
Mali - Fertilizer Deficit Impacts



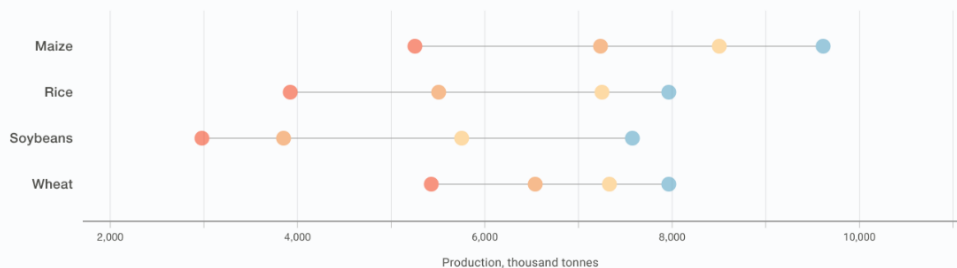
Food Production Forecasts, 2022

Export (.png)

Production, 2021 Optimistic Outlook - 10% Fertilizer Shortage Mid-Range Outlook - 30% Fertilizer Shortage Negative Outlook - 50% Fertilizer Shortage



Production Forecasts by Crop



Data Series	Maize	Rice	Soybeans	Wheat	Total Calories	Total Meals
	Thousand tonnes				Millions	Thousands
Staple Crop Production, 2021	4,563	4,563	4,563	2,235	7.65	2,235
Optimistic Outlook 1% Fertilizer Shortage	4,563 (-111.5%)	4,563 (-111.5%)	4,563 (-111.5%)	4,563 (-111.5%)	7.65 (-122.5%)	2,235 (-1.5%)
Mid-Range Outlook 3% Fertilizer Shortage	4,563 (-111.5%)	4,563 (-111.5%)	4,563 (-111.5%)	4,563 (-111.5%)	7.65 (-1.5%)	2,235 (-1.5%)
Negative Outlook 5% Fertilizer Shortage	4,563 (-111.5%)	4,563 (-111.5%)	4,563 (-111.5%)	4,563 (-111.5%)	7.65 (-1.5%)	2,235 (-1.5%)
CRU Group Outlook	4,563 (-111.5%)	4,563 (-111.5%)	4,563 (-111.5%)	4,563 (-111.5%)	7.65 (-1.5%)	2,235 (-1.5%)

Source: Gro Intelligence, USDA PS&D, CRU Group. Current as of: May 22, 2022. Read more about our Methodology [here](#).

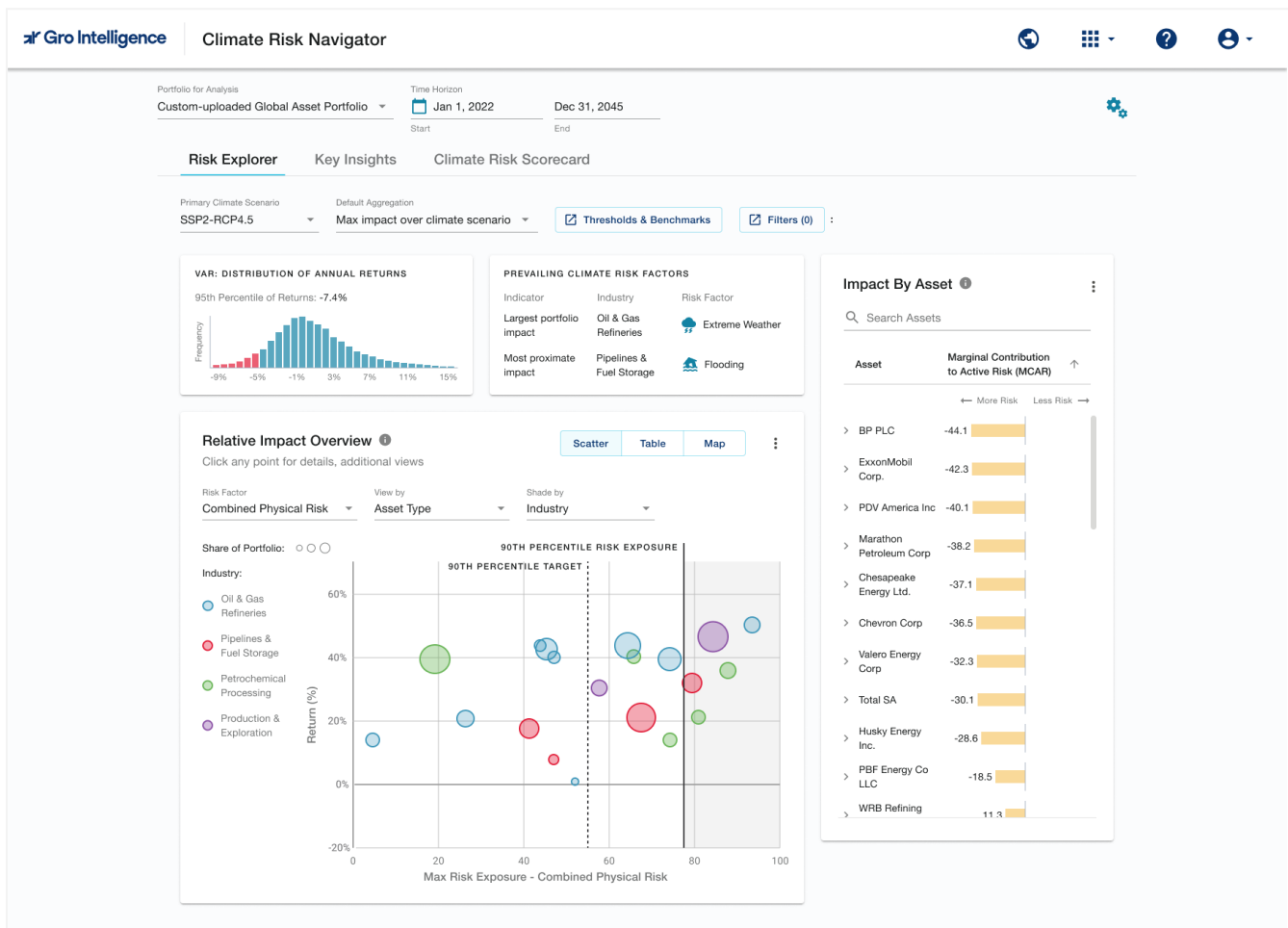
Climate Risk Navigator - Enabling Data-Driven Strategies for Responding to Climate Risk

Purpose: Both industry and government have grown incredibly advanced in their ability to model and respond to various risk factors, informing their strategies for allocating resources, and managing portfolios of financial and physical assets. To date, climate risk factors do not commonly feature in these models. The Climate Risk Navigator enables Gro's industry and government partners to incorporate climate factors into their risk analysis strategies, enabling a proactive response to the inevitable impacts of climate change.

For more detail on the design process behind this particular application, please refer to the Case Studies section of my portfolio: <http://nickm.io>

Launched: TBD

Client: Multiple (Financial Services, Government Agencies)



Portfolio for Analysis: Custom-uploaded Global Asset Portfolio
 Time Horizon: Jan 1, 2022 (Start) to Dec 31, 2045 (End)

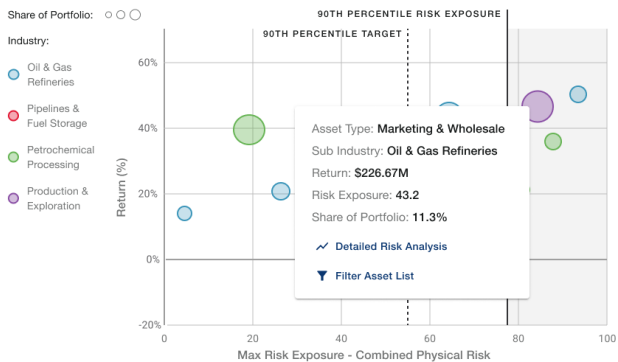
Risk Explorer Key Insights Climate Risk Scorecard

Relative Impact Overview

Scatter Table Map

Click any point for details, additional views

Risk Factor: Combined Physical Risk
 View by: Asset Type
 Shade by: Industry



Impact By Asset

Search Assets

Asset	Marginal Contribution to Active Risk (MCAR)
BP PLC	-44.1
ExxonMobil Corp.	-42.3
PDV America Inc	-40.1
Marathon Petroleum Corp	-38.2
Chesapeake Energy Ltd.	-37.1
Chevron Corp	-36.5
Valero Energy Corp	-32.3
Total SA	-30.1
Husky Energy Inc.	-28.6
PBF Energy Co LLC	-18.5
WRB Refining	11.3

Portfolio for Analysis: Custom-uploaded Global Asset Portfolio
 Time Horizon: Jan 1, 2022 (Start) to Dec 31, 2045 (End)

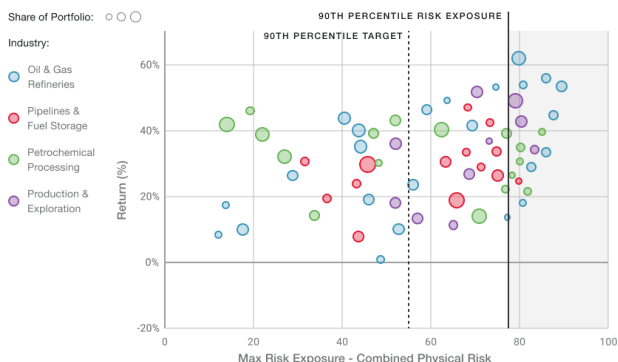
Risk Explorer Key Insights Climate Risk Scorecard

Relative Impact Overview

Scatter Table Map

Click any point for details, additional views

Risk Factor: Combined Physical Risk
 View by: Asset
 Shade by: Industry



Impact By Asset

Search Assets

Asset	Marginal Contribution to Active Risk (MCAR)
BP PLC	-44.1
ExxonMobil Corp.	-42.3
PDV America Inc	-40.1
Marathon Petroleum Corp	-38.2
Chesapeake Energy Ltd.	-37.1
Chevron Corp	-36.5
Valero Energy Corp	-32.3
Total SA	-30.1
Husky Energy Inc.	-28.6
PBF Energy Co LLC	-18.5
WRB Refining	11.3

Portfolio for Analysis: Custom-uploaded Global Asset Portfolio
 Time Horizon: Jan 1, 2022 (Start) to Dec 31, 2045 (End)

Risk Explorer | Key Insights | Climate Risk Scorecard

Relative Impact Overview

Click any point for details, additional views

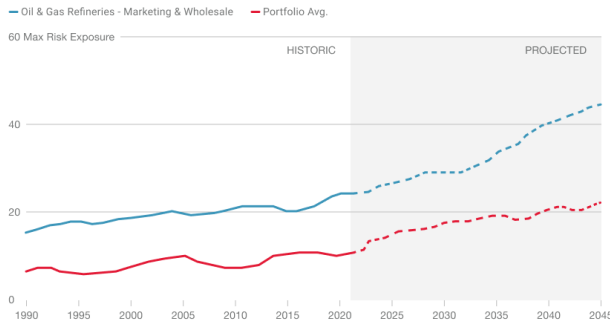
Scatter | Table | Map

Risk Factor

Combined Physical Risk

View all Climate Scenarios

Back



Impact By Asset

Search Assets

Asset	Marginal Contribution to Active Risk (MCAR)
BP PLC	-44.1
ExxonMobil Corp.	-42.3
PDV America Inc	-40.1
Marathon Petroleum Corp	-38.2
Chesapeake Energy Ltd.	-37.1
Chevron Corp	-36.5
Valero Energy Corp	-32.3
Total SA	-30.1
Husky Energy Inc.	-28.6
PBF Energy Co LLC	-18.5
WRB Refining	11.3

Portfolio for Analysis: Custom-uploaded Global Asset Portfolio
 Time Horizon: Jan 1, 2022 (Start) to Dec 31, 2045 (End)

Risk Explorer | Key Insights | Climate Risk Scorecard

Relative Impact Overview

Click any point for details, additional views

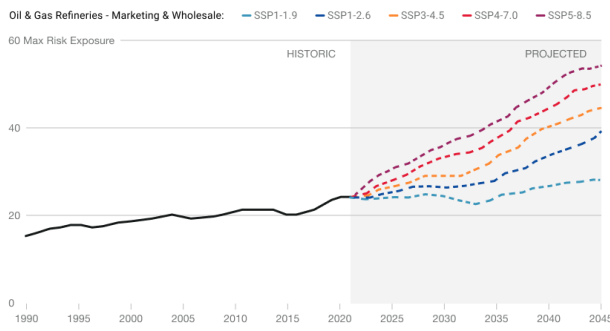
Scatter | Table | Map

Risk Factor

Combined Physical Risk

View all Climate Scenarios

Back



Impact By Asset

Search Assets

Asset	Marginal Contribution to Active Risk (MCAR)
BP PLC	-44.1
ExxonMobil Corp.	-42.3
PDV America Inc	-40.1
Marathon Petroleum Corp	-38.2
Chesapeake Energy Ltd.	-37.1
Chevron Corp	-36.5
Valero Energy Corp	-32.3
Total SA	-30.1
Husky Energy Inc.	-28.6
PBF Energy Co LLC	-18.5
WRB Refining	11.3

US Farmer Profitability & Crop Budgets - Assessing Demand for Agricultural Inputs

Purpose: Agricultural suppliers are constantly updating their sales and marketing strategy based on short and long term indicators such as yield forecasts, crop prices, and estimates of how farmer balance sheets are changing across regions and crop combinations. This application delivers timely signals on significant indicator movements, along with the deeper context suppliers need to move quickly, and in the right direction.

Launched: July 2022

Client: Multiple (Industry, Agricultural Suppliers)

Overview

Crop Budgets

US Insights

Global Yields

Yield Forecast Models

Estimates in-season yields at the district, province, and national levels on a daily basis

explore the data →

Planting Intentions

Gro's early projections of final planted area reported at the county level.

explore the data →

Climate and Weather

Up-to-date overview of current conditions and long-term projections

explore the data →

Crop Preview Current as of: July 22, 2022

Time Period of Percent Change: 1 Day 7 Day 30 Day 1 Year

Corn

[See Detailed Analysis](#)

US Price: \$564.25 cts/bu ↘ -1.6% past day

Source: Gro Intelligence. Current as of: July 22, 2022.

Yield Projections

State	Gro Projected Yield (bu/acre)	1 Day Change (%)
United States →	164.4	↘ -2.1%
Illinois →	189.6	↘ -0.9%
Indiana →	163.8	↘ -1.9%
Iowa →	164.4	↘ -2.1%
Kansas →	116.3	↘ -3.8%
Minnesota →	171.2	↘ -1.7%

1-7 of 18 < >

Soy

[See Detailed Analysis](#)

US Price: \$1315.75 cts/bu ↗ +1.1% past day

Source: Gro Intelligence. Current as of: July 22, 2022.

Yield Projections

State	Gro Projected Yield (bu/acre)	1 Day Change (%)
United States →	50.6	↘ -0.1%
Arkansas →	50.6	↘ -0.1%
Illinois →	60.7	↗ +0.1%
Indiana →	54.3	↘ -0.4%
Iowa →	50.6	↘ -0.1%
Kansas →	41.0	↘ -0.5%

1-7 of 11 < >

Crop: **Corn** State: **All Corn States (35)**

Area Crop Prices Fertilizer Prices Yields **Climate & Weather** Supply & Demand Trade

Growing Conditions

Gro Drought Index (GDI)

Vegetative Health Index (NDVI)

Daily Land Surface Temperature

Gro Soil Moisture

NASS Soil Moisture

Observed Flood

Daily Weather

GFS Temperature Forecast

GFS Precipitation Forecast

Back To Top ↑

CORN, CURRENT SEASON, USA

GRO YIELD MODEL (FORECAST)

48.62 bu/acre

▼ -6.90% since last year

HARVESTED AREA

87.2M acres

▲ +1.04% since last year

FUTURES PRICE, RFM

13.70 \$USD/bu

▼ -4.00% since last year

ANNUAL PRODUCTION

4.53B bu

▲ +7.11% since last year

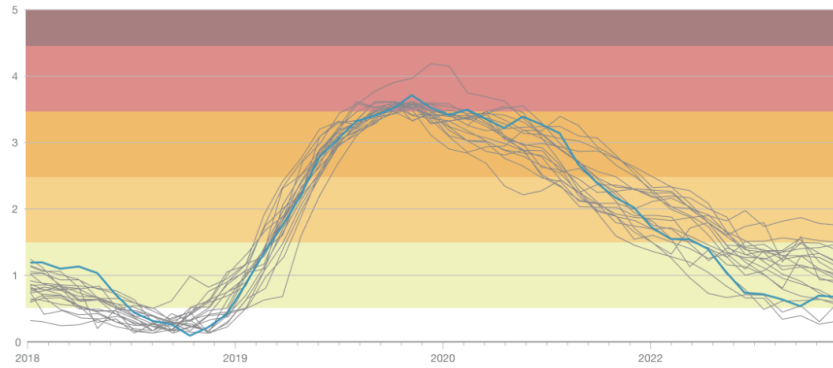
STOCKS TO USE RATIO

5.41 %

▲ +0.39 since last year

Gro Drought Index (GDI), Corn - United States

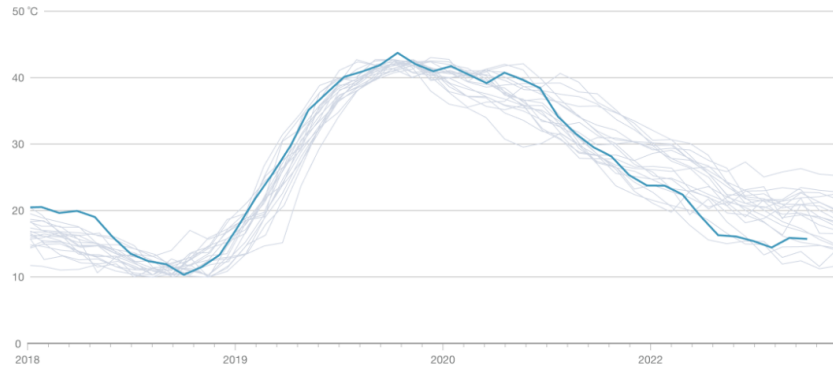
— 2022 — Past Years



Source: Gro Intelligence. Current as of: Jul 22, 2022.

Vegetative Health Index (NDVI), Corn - United States

— 2022 — Past Years



Source: Gro Intelligence. Current as of: Jul 22, 2022.

Daily Land Surface Temperature, Corn - United States

— 2022 — Past Years



Crop: **Corn** Region: **United States**

Crop Budget For Corn In United States

Source: University of Illinois

Crop Budget: **Corn, following soybeans** Productivity Scenario: **High Productivity**

NET PROFIT 721 \$USD/acre ↗ +421 since last year | **GROSS REVENUE** 1,505 \$USD/acre ↗ +71.02% since last year | **TOTAL COST** 784 \$USD/acre ↗ +35.17% since last year | **GRO YIELD FORECAST** 225.45 bu/acre ↗ +3.60% since last year | **CASH PRICE** 7.0 \$USD/bu ↗ +65.17% since last year

Revenue	2018	2019	2020	2021	2022	User Defined (2022)	YoY chg. (%)
Yield bu/acre	208	188	218	220	228	225.45 <small>Latest Gro Yield Forecast: 225.45 ± 5.3*</small>	3.6%
Price \$/bu	3.6	4.5	3.3	4.0	6.6	7.0 <small>Latest DTN Price: 7.0*</small>	65%
Crop Production Revenue \$/bu	749	846	719	880	1,505	1,505	71%
Government & Insurance Payments \$/acre View all costs	0	57	30	0	0	0	0%
Gross Revenue \$/acre	749	846	719	880	1,505	1,505	71%
Fixed and Variable Expenses							
Total Operating costs \$/acre View all costs	467	518	496	504	705	705	39.8%
Total Allocated Overhead \$/acre View all costs	67	74	75	76	79	79	3.9%
Total Costs \$/acre	534	592	571	580	784	784	35.2%
Net Income							
Operating Profit \$/acre	282	328	223	376	800	800	112.8%
Net Profit \$/acre	215	254	148	300	721	721	140.3%

Learn more about [metrics used in Crop Budgets](#).

* Yield data is provided by Gro Yield Forecast that updates daily in-season. Price data is provided by DTN and updates daily.

Source: University of Illinois. Last released April 2022. Updates yearly.