



29th Annual Distillers Technology Symposium

Issues and Outlook for Agricultural Commodities

4th May 2026

Presented by:

Guy H. Allen - IGP Senior Economist

KSU Ag Manager = <https://www.agmanager.info/contributors/allen>

Markets & News = www.dtnigp.com

X = [@igpguy1](https://twitter.com/igpguy1)



KANSAS STATE
UNIVERSITY | Department of Grain Science
and Industry

WEATHER & CLIMATE

...

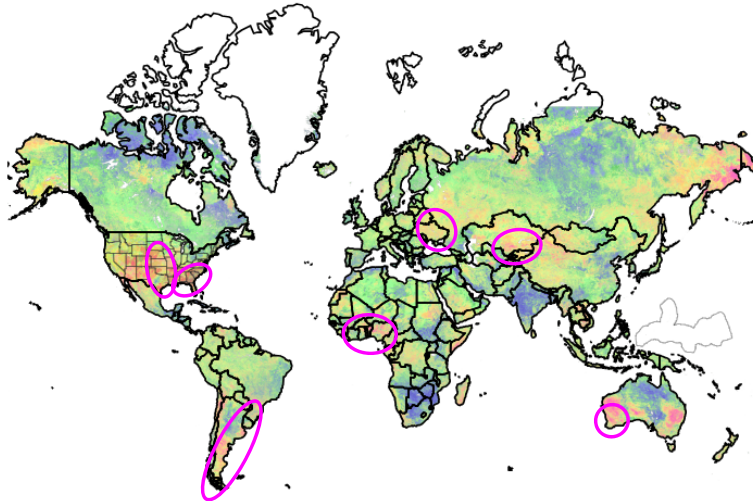
Current Market Outlook & Issues

Weather – World Dry Weather and Drought Risk

Vegetation Health Index



➤ [USDA/WAOB Joint Agricultural Weather Facility – 28th April 2026](#)



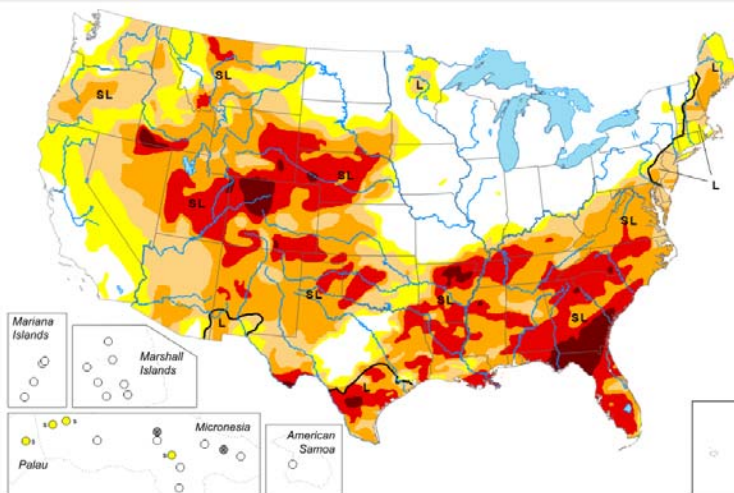
- EUROPE: Expanding and intensifying dryness in northwestern and northeastern portions of the continent contrasted with beneficial showers in Spain and from Germany southeastward.
- WESTERN FSU: Widespread rain from the Black Sea Coast into western Russia was followed by much colder temperatures, while short-term dryness intensified in the northwest.
- MIDDLE EAST: Additional moderate to heavy rain maintained adequate to abundant moisture supplies for vegetative to filling winter grains across much of the region.
- NORTHWEST AFRICA: Dry and much warmer weather in Morocco and Tunisia bracketed showers in Algeria.
- AUSTRALIA: Dry weather across most of Australia favored seasonal fieldwork, with anomalous heat in the south contrasting with cool weather elsewhere.
- EAST ASIA: Rainfall across southern China onto the North China Plain provided favorable moisture for winter wheat, rapeseed, and rice development.
- SOUTH AFRICA: Showers boosted long-term moisture reserves but had little effect on corn or other rain-fed summer crops at this stage of the season.
- BRAZIL: Large portions of the central and eastern regions experienced predominantly dry, sunny conditions

Source: USDA - [International | Drought.gov](#)

Source: USDA <https://www.usda.gov/sites/default/files/documents/wvcb.pdf>

Current Market Outlook & Issues

Weather – U.S. Drought Monitor



Agriculture Affected by Drought for Apr 28, 2026

Commodity	↕ % Area Affected by Drought
Barley production	63
Corn production	25
Cotton production	98
Durum Wheat production	12
Peanut production	100
Rice production	86
Sorghum production	87
Soybean production	27
Spring Wheat production	18
Sugarbeet production	28
Sugarcane production	95
Sunflower production	12
Winter Wheat production	69

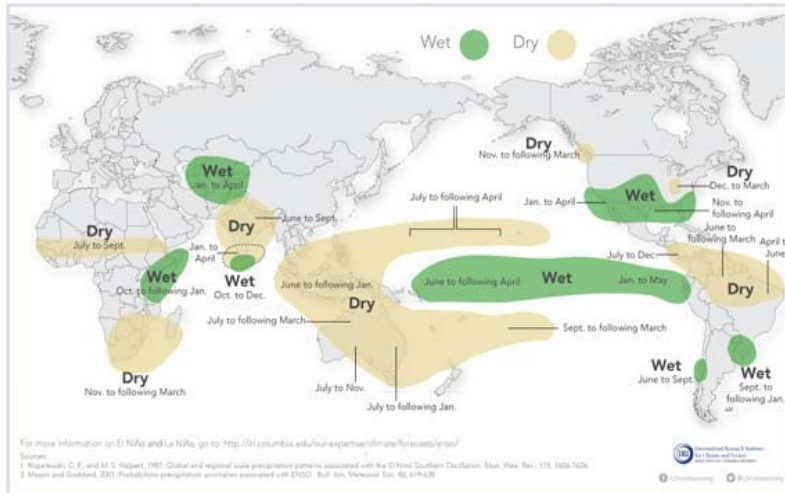
Source: USDA [Current Map | U.S. Drought Monitor](#)

Current Market Outlook & Issues

Weather – El Niño Impact

El Niño and Rainfall

El Niño conditions in the tropical Pacific are known to shift rainfall patterns in many different parts of the world. Although they vary somewhat from one El Niño to the next, the strongest shifts remain fairly consistent in the regions and seasons shown on the map below.



Source: USDA - <https://iri.columbia.edu/our-expertise/climate/enso/why-do-we-care-about-el-nino-and-la-nina/>

USDA/WAOB Joint Agricultural Weather Facility – 2nd December 2025

- EUROPE: though warmer-than-normal conditions lingered in southeasternmost portions of the continent.
- MIDDLE EAST: Rain in western Turkey contrasted with increasingly dry conditions over Iran.
- NORTHWEST AFRICA: Dry weather in Morocco juxtaposed with additional showers from north-central Algeria into northern Tunisia.
- AUSTRALIA: Sunny skies prevailed over most of the country's primary winter crop areas, with cool temperatures in the west giving way to extreme heat in parts of eastern Australia.
- SOUTH AFRICA: Widespread warm and rainy weather continued, maintaining favorable moisture for much of the corn belt and coastal sugarcane regions of KwaZulu-Natal.
- ARGENTINA: Drier weather dominated the region, reducing moisture for summer crop germination.
- BRAZIL: Scattered showers persisted across most of the region; however, southern Brazil experienced limited moisture as summer grains and oilseeds began their reproductive stage.

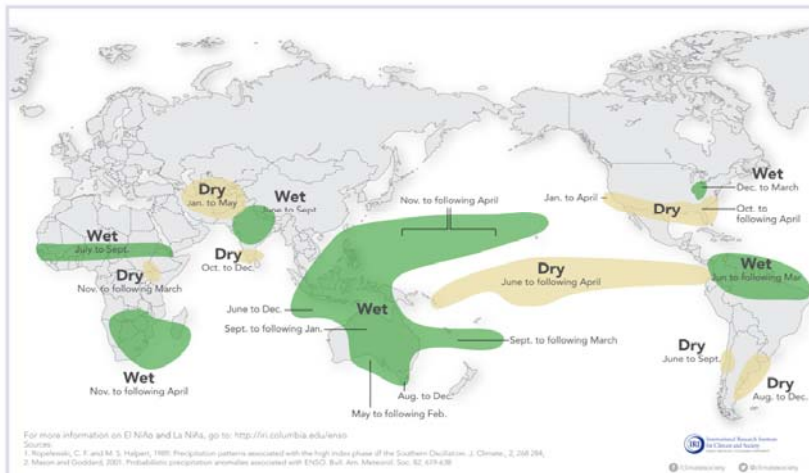
Source: USDA
<https://www.usda.gov/sites/default/files/documents/wwoeb.pdf>

Current Market Outlook & Issues

Weather – La Niña Impact

La Niña and Rainfall

La Niña conditions in the tropical Pacific are known to shift rainfall patterns in many different parts of the world. Although they vary somewhat from one La Niña to the next, the strongest shifts remain fairly consistent in the regions and seasons shown on the map below.



Source: USDA - <https://news.climate.columbia.edu/2016/04/28/learning-from-el-nino-as-la-nina-odds-rise/>

El Niño and La Niña are known to shift rainfall and temperature patterns around the world. The adjacent maps show typical El Niño and La Niña rainfall impacts.

WHEAT

Outlook...

Current Market Overview, Outlook & Issues U.S. Chicago Wheat – Nearby Daily



CBT Wheat

Daily Nearby

US\$/bushel

2 Year History

4th May 2026 \$ 6.35½

7 March 2022 \$13.63

16 May \$12.84

14 Oct 2025 \$5.00¼

29 July 2024 \$5.14

26 Sept 2022 \$5.94¾



Source: Barchart - <https://www.barchart.com/futures/quotes/ZSH21/interactive-chart>

Current Market Overview, Outlook & Issues U.S. Chicago Wheat Structure



CME Wheat: VSR Interest Rate 5.87%

Delivery Mo	May 26	Jul 26	Sep 26	Dec 26	Mar 27	May 27	Jul 27	Sep 27	Dec 27
Closing Price	624.50	637.75	652.50	673.25	690.25	698.00	695.00	702.00	716.25

Spread Months	MAY26-JUL26	JUL26-SEP26	JUL26-DEC26	JUL26-MAR27	SEP26-DEC26	SEP26-MAR27	DEC26-MAR27	MAR27-MAY27
Starts	1-May-26	1-Jul-26	1-Jul-26	1-Jul-26	1-Sep-26	1-Sep-26	1-Dec-26	1-Mar-27
Ends	1-Jul-26	1-Sep-26	1-Dec-26	1-Mar-27	1-Dec-26	1-Mar-27	1-Mar-27	3-May-27
Total Days	61	62	153	243	91	181	90	63
Storage	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165
Total Storage	10.07	10.23	25.25	40.10	15.02	29.87	14.85	10.40
Total Interest @ 5.87%	6.21	6.45	15.91	25.27	9.68	19.26	9.88	7.09
Calculated Full Carry	(16.28)	(16.68)	(41.16)	(65.37)	(24.70)	(49.12)	(24.73)	(17.49)
Spread Close	(13.25)	(14.75)	(35.50)	(52.50)	(20.75)	(37.75)	(17.00)	(7.75)
% Full Carry	81.4%	88.4%	86.3%	80.3%	84.0%	76.8%	68.7%	44.3%
Return on Storage / mo	3.5	4.0	3.8	3.4	3.6	3.1	2.4	0.3
% Return from Storage	3.04%	4.16%	3.83%	2.91%	3.52%	2.43%	1.29%	-2.21%
Today's Spread Range	(14.00) (11.75)	(15.25) (14.50)	(36.50) (35.00)	(53.50) (51.75)	(21.25) (20.50)	(38.25) (37.00)	(17.25) (16.25)	(7.75) (6.25)
Spread Carry Widest	(14.50)	(15.50)	(36.75)	(53.75)	(21.25)	(38.50)	(17.25)	(9.50)
Spread Carry Narrowest	27.75	(3.25)	(11.50)	(33.50)	(8.00)	(24.50)	(8.75)	(1.25)

Please Note: The Variable Storage Rate (VSR) is now \$0.165/day. This storage rate will remain in effect until an observed spread averages greater than 80% full carry or less than 50% of full carry.

Forward Pricing Structure

Nearby Futures prices are in a strong "Carry", i.e. a discount to for forward prices, 80%+ Full Carry

Market telling us carry the grain until later...!

VSR Implied by	MAY26-JUL26	JUL26-SEP26	JUL26-DEC26	JUL26-MAR27	SEP26-DEC26	SEP26-MAR27	DEC26-MAR27	MAR27-MAY27
Today's Dec-Mar Spread	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165

05/

These sections show how the VSR will change if spreads stay at today's levels and what impact it will have on full carry.

Spread Months	MAY26-JUL26	JUL26-SEP26	JUL26-DEC26	JUL26-MAR27	SEP26-DEC26	SEP26-MAR27	DEC26-MAR27	MAR27-MAY27
Calculated Full Carry	(16.28)	(16.68)	(41.16)	(65.37)	(24.70)	(49.12)	(24.73)	(17.49)
Spread Close	(13.25)	(14.75)	(35.50)	(52.50)	(20.75)	(37.75)	(17.00)	(7.75)
% Full Carry	81.4%	88.4%	86.3%	80.3%	84.0%	76.8%	68.7%	44.3%

Source: CME, DTN, ATI

Current Market Overview, Outlook & Issues U.S. KC Wheat – Nearby Daily

05/04/2026 Hard Red Winter Wheat (KEN26) [CBOT] O 591-0 H 696-2 L 682-2 C 689-6 Δ +4-6 (-0.68%)



KCBT Wheat

Daily Nearby

US\$/bushel

2 Year History

4th May 2026 \$ 6.89%

16 May 2022 \$13.79

14 Oct 2025 \$4.88

26 Aug 2024 \$5.27

26 Sept 2022 \$5.87%

Source: Barchart - <https://www.barchart.com/futures/quotes/ZSH21/interactive-chart>

Current Market Overview, Outlook & Issues U.S. KC HRW Wheat Structure



KC Wheat: VSR Interest Rate 5.87%

Delivery Mo	May 26	Jul 26	Sep 26	Dec 26	Mar 27	May 27	Jul 27	Sep 27	Dec 27
Closing Price	682.50	694.50	706.50	721.25	732.50	737.00	731.00	733.50	741.00

Spread Months	MAY26-JUL26	JUL26-SEP26	JUL26-DEC26	JUL26-MAR27	SEP26-DEC26	SEP26-MAR27	DEC26-MAR27	MAY27-JUL27
Starts	1-May-26	1-Jul-26	1-Jul-26	1-Jul-26	1-Sep-26	1-Sep-26	1-Dec-26	3-May-27
Ends	1-Jul-26	1-Sep-26	1-Dec-26	1-Mar-27	1-Dec-26	1-Mar-27	1-Mar-27	1-Jul-27
Total Days	61	62	153	243	91	181	90	59
Storage	0.265	0.265	0.265	0.265	0.265	0.265	0.265	0.265
Total Storage	16.17	16.43	40.55	64.40	24.12	47.97	23.85	15.64
Total Interest @ 5.87%	6.51	6.73	16.61	26.38	10.05	19.99	10.15	6.80
Calculated Full Carry	(22.67)	(23.16)	(57.15)	(90.77)	(34.16)	(67.95)	(34.00)	(22.43)
Spread Close	(12.00)	(12.00)	(26.75)	(38.00)	(14.75)	(26.00)	(11.25)	6.00
% Full Carry	52.9%	51.8%	46.8%	41.9%	43.2%	38.3%	33.1%	-26.7%
Return on Storage / mo	2.7	2.5	2.2	2.1	2.1	2.1	0.4	None
% Return from Storage	-3.64%	-3.74%	-4.73%	-5.69%	-5.30%	-6.25%	-7.07%	None
Today's Spread Range	(15.00) (11.00)	(12.00) (11.25)	(26.75) (25.25)	(38.00) (35.00)	(14.75) (13.75)	(26.25) (23.75)	(11.25) (9.75)	6.00 9.50
Spread Carry Widest	(17.75)	(15.75)	(36.75)	(54.00)	(22.00)	(38.75)	(17.50)	(3.25)
Spread Carry Narrowest	19.50	0.25	(11.75)	(29.50)	(11.75)	(19.75)	(7.75)	22.00

Forward Pricing Structure
Nearby Futures prices are in a strong "Carry",
i.e. a discount to for forward prices, 50%+ Full Carry
Market telling us carry the grain until later...!

VSR Implied by	MAY26-JUL26	JUL26-SEP26	JUL26-DEC26	JUL26-MAR27	SEP26-DEC26	SEP26-MAR27	DEC26-MAR27	MAY27-JUL27
Today's Spread	0.265	0.265	0.265	0.165	0.165	0.165	0.165	0.165

Spread Months	MAY26-JUL26	JUL26-SEP26	JUL26-DEC26	JUL26-MAR27	SEP26-DEC26	SEP26-MAR27	DEC26-MAR27	MAY27-JUL27
Calculated Full Carry	(22.67)	(23.16)	(57.15)	(68.27)	(26.86)	(51.65)	(26.80)	(18.13)
Spread Close	(12.00)	(12.00)	(26.75)	(38.00)	(14.75)	(26.00)	(11.25)	6.00
% Full Carry	52.9%	51.8%	46.8%	55.7%	54.9%	50.3%	42.0%	-33.1%

These sections show how the VSR will change if spreads stay at today's levels and what impact it will have on full carry. When the VSR changes it will be added to days after deliveries.

Source: CME, DTN, ATI

Current Market Overview, Outlook & Issues U.S. MGE Wheat – Nearby Daily



MGE Wheat Daily Nearby

US\$/bushel

2 Year History

4th May 2026 \$6.98½

16 May 2022 \$14.13

21 Oct 2025 \$4.44¾

26 Aug 2024 \$5.63

26 Sept 2022 \$6.22½

Source: Barchart - <https://www.barchart.com/futures/quotes/ZSH21/interactive-chart>

Current Market Overview, Outlook & Issues U.S. Minn HRS Wheat Structure



MGE Wheat: Commercial Interest Rate 3.66%

Delivery Mo	May 26	Jul 26	Sep 26	Dec 26	Mar 27	May 27	Jul 27	Sep 27
Closing Price	704.50	704.00	721.75	737.50	749.75	750.75	742.75	715.00

Spread Months	MAY26-JUL26	JUL26-SEP26	JUL26-DEC26	SEP26-DEC26	SEP26-MAR27	DEC26-MAR27
Starts	1-May-26	1-Jul-26	1-Jul-26	1-Sep-26	1-Sep-26	1-Dec-26
Ends	1-Jul-26	1-Sep-26	1-Dec-26	1-Dec-26	1-Mar-27	1-Mar-27
Total Days	61	62	153	91	181	90
Storage	0.230	0.230	0.230	0.230	0.230	0.230
Total Storage	14.03	14.26	35.19	20.93	41.63	20.70
Total Interest @ 5.87%	6.72	6.72	10.00	10.00	10.42	10.37
Calculated Full Carry	(20.75)	(21.08)	(52.03)	(31.20)	(62.05)	(31.07)
Spread Close	0.50	(17.75)	(33.50)	(15.75)	(28.00)	(12.25)
% Full Carry	-2.4%	84.2%	64.4%	50.5%	45.1%	39.4%
Return on Storage / mo	None	5.29	3.27	1.84	1.26	0.63
% Return from Storage		2.91%	-0.57%	-2.87%	-3.80%	-4.63%
Today's Spread Range	(0.16) 0.05	(0.18) (0.16)	(0.34) (0.31)	(0.16) (0.15)	(0.28) (0.25)	(0.12) (0.10)
Spread Carry Widest	(0.19)	(0.19)	(0.38)	(0.24)	(0.28)	(0.19)
Spread Carry Narrowest	0.05	0.15	(0.20)	(0.05)	(0.05)	0.01

Forward Pricing Structure

Nearby Futures prices are in a strong "Carry", i.e. a discount to for forward prices.

Market telling us carry the grain until later...?



Source: CME, DTN, ATI

Current Market Overview, Outlook & Issues U.S. Wheat Spread Comparison – Nearby Daily

05/04/2026 Hard Red Winter Wheat (KEN26) [CBOT] O691-0 H697-2 L682-2 C696-2 Δ+1-6 (+0.25%) ZWN26 640-2 KWN26 705-2 KEN26 696-2



Source: Barchart - <https://www.barchart.com/futures/quotes/ZSH21/interactive-chart>

COARSE GRAINS AND CORN

Corn, Barley, Grain Sorghum Outlook...

Current Market Overview, Outlook & Issues U.S. CBOT Corn – Nearby Daily



CBOT Corn Weekly Nearby

US\$/bushel

2 Year History

4 May 2026 - \$481³/₄

14 Feb 2025 - \$4.96¹/₄

25th Apr 2022 - \$8.27

26th Aug 2024 - \$3.85

OILSEEDS

Soybean Outlook...

Current Market Overview, Outlook & Issues U.S. CBOT Soybeans – Nearby Daily



CBOT Soybeans

Daily Nearby

US\$/bushel

2 Year History

4th May 2026 - \$12.20¼

17th Feb 2025 - \$10.36

6th June 2022 - \$17.84

13th Feb 2023 - \$15.5

12th Aug 2024 - \$9.55



Source: Barchart - <https://www.barchart.com/futures/quotes/ZSH21/interactive-chart>

Current Market Overview, Outlook & Issues U.S. Soybean Oil Situation – Nearby Daily



CBOT Soybean Oil

Nearby Daily (US\$/cwt)

2 Year History

4th May 2026 = \$76.04

17th Feb 2025 = \$46.07

25th April 2022 = \$87.65

12th Aug 2024 = \$37.66

Source: Barchart - <https://www.barchart.com/futures/quotes/ZSH21/interactive-chart>

Current Market Overview, Outlook & Issues U.S. Soybean Meal Situation – Nearby Daily



CBOT Soybean Meal

Nearby Daily (US\$/short ton)

2 Year History

4th May 2026 = \$321¼

17th Feb 2025 = \$295.90

30th January 2023 \$500.40

12th Aug 2024 = \$298.50

Source: Barchart - <https://www.barchart.com/futures/quotes/ZSH21/interactive-chart>

GEO-POLITICAL ISSUES

Today's primary drivers of commodity markets...

MACRO FINANCIAL ISSUES ARISING

The Value of a Dollar...

Current Market Outlook & Issues

U.S. Dollar Index

05/04/2026 U.S. Dollar Index (DXY00) [ICEUS] O98.052 H98.481 L97.970 C98.277 Δ+0.121 (+0.12%)



5 Year Chart

(4th May 2026)

Source: U.S. Bureau of Labor Statistics

The dollar index rose to 98.4 on Monday, rebounding from the near two-month lows touched last week, as traders entered the first full week of May amid rising oil prices and escalating tensions in the Strait of Hormuz.

Investors are also looking ahead to several speeches from Fed officials and a slate of key economic data releases, including the closely watched jobs report. The US Treasury is widely expected to maintain the size of its quarterly refunding at \$125 billion.

On the data front, the US economy is projected to have added around 60K jobs in April, marking a sharp slowdown from 178K in March.

Markets currently expect the Fed to keep the federal funds rate unchanged for the remainder of the year, although the probability of a 25bps rate hike in December stands at around 15%.

Meanwhile, traders remained alert to the risk of intervention by Japanese authorities to support the yen, particularly amid holiday-thinned trading conditions in Japan.

Over the past month, the United States Dollar has strengthened 1.70%, but it's down by 4.63% over the last 12 months.

The United States Dollar is expected to trade at 99.59 by the end of this quarter, according to Trading Economics global macro models and analysts expectations.

Looking forward, we estimate it to trade at 97.43 in 12 months time.

Source: Trading View - <https://tradingeconomics.com/united-states/currency>

PRECIOUS METALS

Gold, Silver...

Gold - Spot Cash – Nearby Monthly

/ Silver Spot Cash – Nearby Monthly



Persistent Central Bank Buying: Central banks, particularly in emerging markets like China, Turkey, and India, continue to diversify reserves, reducing reliance on the US dollar.

Monetary Policy and Inflation Fears: Expectations U.S. Federal Reserve interest rate cuts, with fears of inflation and currency devaluation.

Flight to Safety: Increased geo-political tensions have spurred investors to seek safety, with gold prices rising in response to military, economic, and geopolitical shocks.

Structural Bullishness: The long-term trend is supported by a structural shift towards increasing gold reserves, with a potential new price floor.

Source: Barchart - <https://www.barchart.com/futures/quotes/ZSH21/interactive-chart>



ENERGY COMPLEX

WTI, Brent, Natural Gas...

Current Market Overview, Outlook & Issues Crude Oil Monthly / 10 Year History

WTI Crude Oil - Spot Cash Nearby Monthly / Brent Crude Oil Spot Cash – Nearby Weekly



Source: Barchart - <https://www.barchart.com/futures/quotes/ZSH21/interactive-chart>

Current Market Overview, Outlook & Issues Understanding Crude Oil Pricing

Market & Financial Terms

Spot Price: The price for a one-time, "on the spot" transaction for immediate delivery.
Futures Contract: A standardized financial agreement to buy or sell oil at a predetermined price on a specific future date. These are used by traders to hedge against price volatility.
The Spread: The difference in price between two different benchmarks (e.g., the Brent-WTI spread). Spreads fluctuate based on geopolitical tensions, transportation costs, and supply levels.
Under-recoveries: The difference between the cost of importing crude and the price at which state-run oil marketing companies (like IOC, BPCL, and HPCL) sell refined products to consumers.

Key Benchmarks & Pricing Terms

Brent Crude: The global benchmark for oil from the North Sea. It is the primary pricing reference for roughly two-thirds of the world's internationally traded crude, including oil from Europe, Africa, and the Middle East.

WTI (West Texas Intermediate): The benchmark for the U.S. oil market, sourced primarily from Texas. It is a "light, sweet" crude, meaning it has low density and low sulfur, making it easier to refine into gasoline.

Oman & Dubai Crude: These serve as the main benchmarks for "heavy sour" oil from the Middle East. They are a major component of the Indian Basket because of India's heavy reliance on Middle Eastern imports.

Indian Basket (IB): A weighted average of Oman/Dubai (sour) and Brent Crude (sweet) prices. It reflects the actual mix of oil processed in Indian refineries. As of March 2026, the ratio was roughly 61% sour to 39% sweet.

Crude Oil Quality Terms

Sweet vs. Sour: "Sweet" crude contains less than 1% sulfur, making it cheaper to process. "Sour" crude has higher sulfur content and requires more expensive refining to remove impurities.
Light vs. Heavy: "Light" crude has low density (high API gravity), flows easily, and yields more high-value products like petrol and diesel. "Heavy" crude is dense, viscous, and more costly to refine.

Crude Oil Prices Explained

Glossary of commonly used pricing terms

Based on Cost

SPOT & FOB

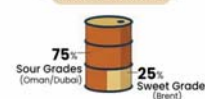


SPOT
Current price for immediate purchase
1 Barrel = 159 Liters

FOB
(Free on Board)
Price at producing country's port of loading
Excludes freight, insurance & shipping

Based on Type of Oil

INDIAN BASKET



Indian Basket
Price India pays depending on the blend of oils purchased

GLOBAL BENCHMARKS



Brent Crude
Major global benchmark. It is the cost per barrel of light, sweet crude extracted from the North Sea

Oman/ Dubai Crude
Key benchmark for sour crude exports from West Asia, widely used for pricing cargoes to Asia

WTI
Cost per barrel of light, sweet crude oil produced in the US, mainly Texas

Source: Media Reports | Graphic: Subham Singh

Current Market Overview, Outlook & Issues

Natural Gas

Natural Gas – Nearby Weekly

MMBTU / US\$/Gallon 4 May 2026

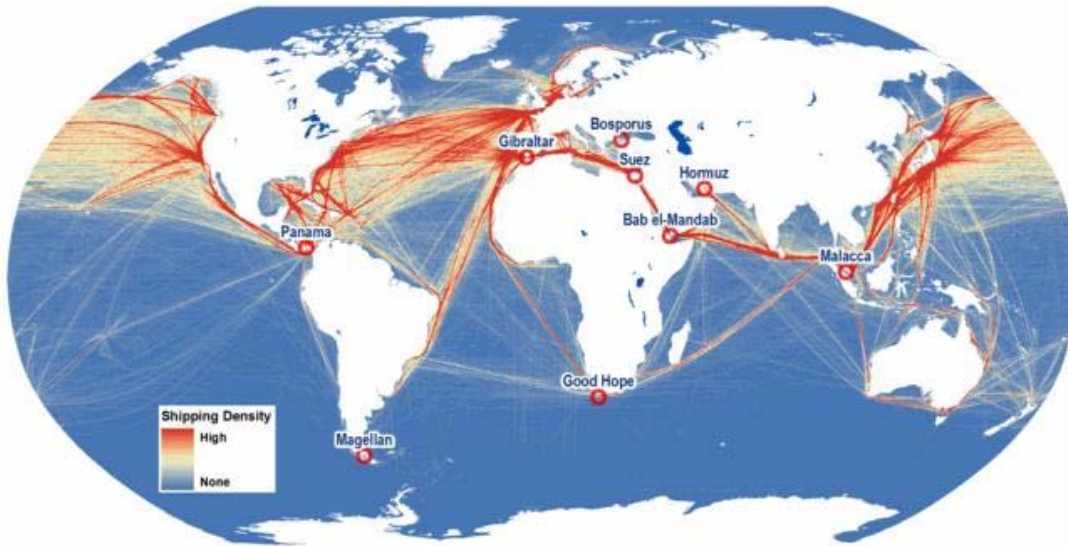


Source: Barchart - <https://www.barchart.com/futures/quotes/ZSH21/interactive-chart>

OCEAN FREIGHT

Blue Water Shipping...

Ocean Freight Overview Global Shipping Routes



Source: https://www.seanews.com.tr/images/haberler/2015_09/153518/tradev1.jpg 06 September 2015

Ocean Freight Overview London Baltic Exchange – Dry Index

goshatan5903 created with TradingView.com, Apr 01, 2024 14:11 UTC
 BALTC DRY INDEX - 1M - INDEX 2,698 -18 (-1.77%)
 Note: The data vendor doesn't provide volume data for this symbol.



TradingView

Source: TradingView - <https://www.tradingview.com/chart/?symbol=INDEX%3ABDI>



Dry Bulk Index – 2,698

5 Year Weekly – 1 st April 2026	
4 th May 2026	- 2,698
1 st November 2024	- 2948
13 th February 2023	- 576
8 th October 2021	- 5650
19 th January 2021	- 1644

Annual Global Trade (2020-21)

Total Dry Bulk = 4.6 billion mts

Iron Ore = 1,504 bmts (33%)

Coal = 1,292 bmts (28%)

Grains & Oilseeds (17%)

Wheat = 0.200 bmts

Corn = 0.202 bmts

Soybeans = 0.173 bmts

Rice = 0.050 bmts

Other Grain = 0.048 bmts

Other Seed = 0.019 bmts

Meals = 0.095 bmts

Total = 0.787 bmts

Ocean Freight Overview London Baltic Exchange – Dry Index

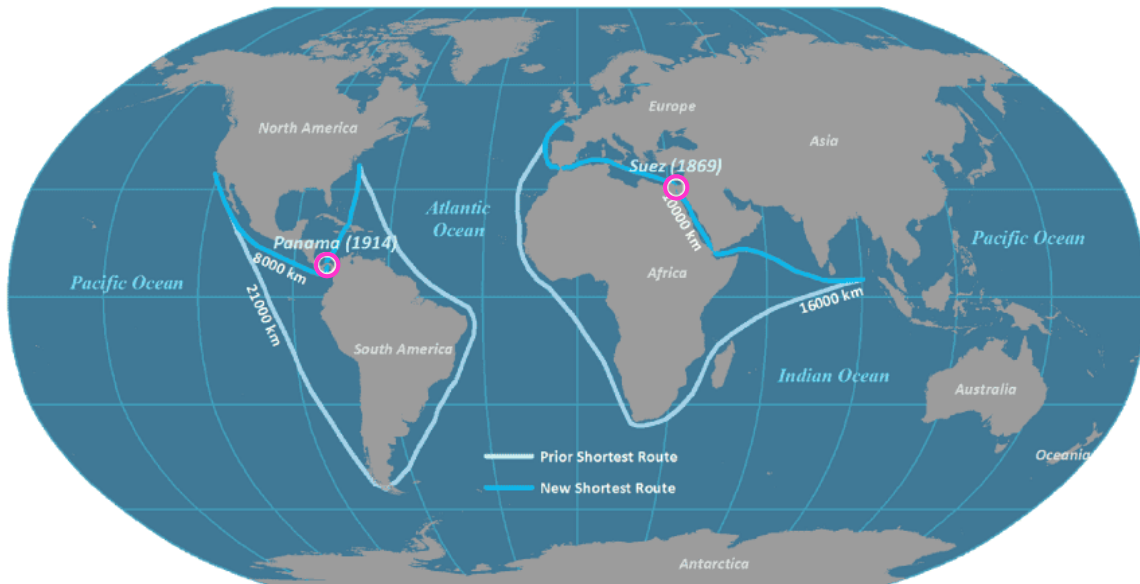


Source: Investing.com <https://www.investing.com/indices/baltic-dry-tanker-chart>

INTERNATIONAL LOGISTICS AND SUPPLY CHAIN DISRUPTIONS

Increased Risk and Transportation Costs...

Ocean Freight Overview International Logistics – Ocean Freight



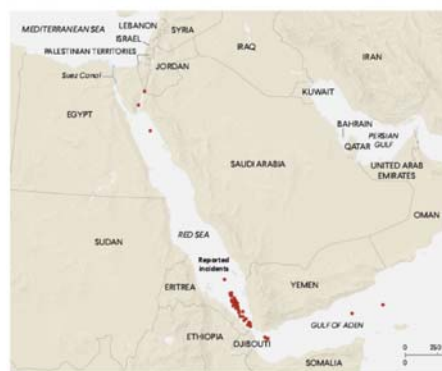
Source: Wonderful Engineering <https://wonderfulengineering.com/panama-canal-ingenious-engineering/>

Current Market Overview, Outlook & Issues Yemen – Houthi Attacks



Where Ships Are Being Targeted

Reported incidents of Houthi targeting of vessels between November 19, 2023 and January 2, 2024



Note: Incidents include attacks, approaches, business interruptions, and sightings.

40% of Asia – Europe Trade

A disruption in trade could send a ripple effect of higher costs across the world economy.

Container Traffic

1/3rd of all containers flows through the Suez Canal.

Energy

- 12% of seaborne crude oil
- 8% of LNG)

Shipping detours around the southern tip of Africa increase the distance from **8.5k nm** (26 days) to **11.8k nm** (36 days) or by **39%**; (over **US\$1million**)

Avoiding the Red Sea Means Much Longer Shipping Routes



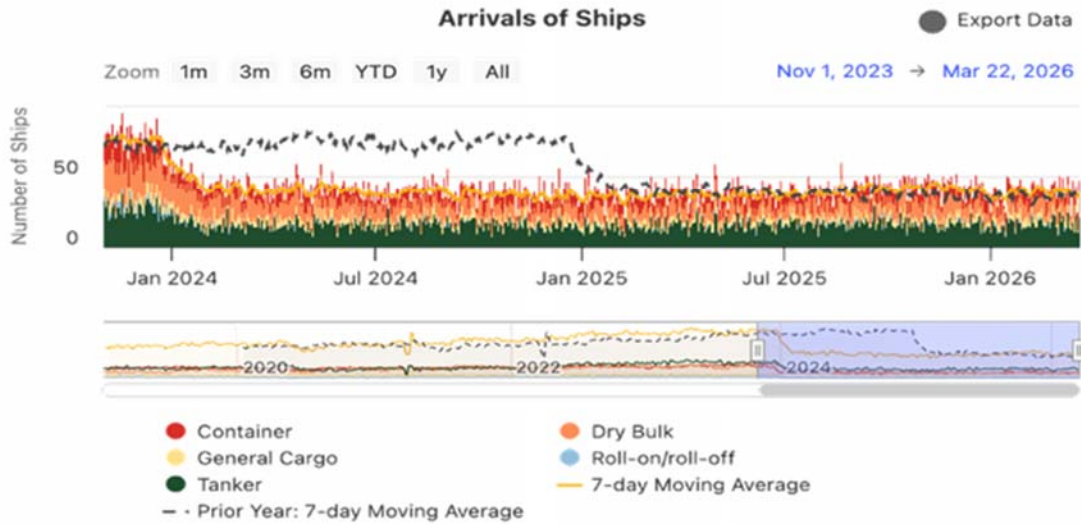
Note: Distances and days are approximate.

- **Yemen** Since mid-November 2023, the Yemen-based, Iran-backed Houthi rebel group has attacked dozens of commercial ships in the Red Sea, with no signs of slowing down. An exodus of shipping companies from the region now threatens to scuttle supply chains and increase consumer prices just as global inflation begins to ebb.
 - The United States has announced an international security initiative to protect commercial vessels, but some experts say the effort falls short of the necessary deterrence, and others worry a forceful response could propel the region into wider conflict..

Source: Global Conflict Tracker - <https://www.cfr.org/global-conflict-tracker/conflict/war-yemen> Disruption Monitor | PortWatch

Current Market Overview, Outlook & Issues

Suez Canal: Daily Transit Numbers



Sources: UN Global Platform; PortWatch.

Source: Financial Times - <https://portwatch.imf.org/pages/chokepoint1>; Disruption Monitor | PortWatch

GEO-POLITICAL ISSUES

Today's primary drivers of commodity markets...

Current Market Outlook & Issues

Geo- Political Risks

- **Persian Gulf: Iran – Israel, U.S.** – Open Conflict
 - Iraq –
 - Yemen –
 - Ethiopia – Eritrea
 - Afghanistan –
- **Red Sea / Suez Canal**
 - Yemen –
 - Ethiopia – Eritrea
- **Russia - Ukraine**
- **China** – Belts & Roads Initiative
 - Regional
 - Taiwan
 - South China Sea and broader territory claims
- **North Korea** –
- **Sahel** - (Burkina Faso, Cameroon, Chad, The Gambia, Guinea Mauritania, Mali, Niger, Nigeria and Senegal) – U.S. has sent drones to Nigeria to



Current Market Outlook & Issues

Geo Political Risks – Western Hemisphere

- **USMCA** – Monroe Doctrine
- **Mexico** – Schedule renegotiation of USMCA (NAFTA) has begun
- **Canada** – Schedule renegotiation of USMCA (NAFTA) has been complicated by Canada
- **Venezuela** – U.S. intervention and change in leadership
- **Cuba** – Country on the edge of collapse



THANK YOU FOR YOUR ATTENTION

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