



Model Performance Report

2024/25



Performance Report

2024/25

Discover another year of unprecedented accuracy for Octopusbot AI Forecasts.

Welcome to our 2024/25 Performance Report. It's our pleasure to present a year marked by outstanding achievements in Octopusbot's AI forecasting. This year, our models showcased an impressive **average accuracy of 97.4%** on the final estimate. The models achieved an average 95% accuracy **7 months ahead of the season's end**. This marks an improvement from last season's 96.3% accuracy and demonstrates our commitment to continuous improvement of our AI models.

The 2024/25 grain and oilseed crop season was influenced by several climatic and regional agricultural factors. Severe frost events and prolonged **dryness in the Black Sea region** impacted wheat production in Russia, while leafhopper bug infestation affected corn yields in Argentina. Despite these challenges, Octopusbot effectively quantified the extreme events well ahead of other forecasting agencies.

Last season, **Octopusbot predicted lower production estimates for EU** wheat, barley, and canola due to reduced planted areas at a time when other forecasting agencies had not yet provided their estimates.

Big winners from the last season were predictions in North America. **Octopusbot delivered strong performance, with higher US wheat forecasts than USDA** driven by favourable crop conditions such as high precipitation levels, and lower estimates for Canadian wheat, barley, and canola accurately capturing low soil moisture conditions in key regions.

For the October 2024 - March 2025 season, **Octopusbot's seasonal price forecasts closely aligned with actual market prices** across key grain and oilseed commodities. The forecasts particularly excelled during peak pricing periods, identifying fair market values and thus providing good selling opportunities for customers.

In conclusion, the 2024/25 season has reinforced Octopusbot's position as a global leader in agricultural AI forecasting. We are committed to providing unparalleled competitive edge to our customers through precise, timely predictions that empower our customers to confidently manage risks, seize optimal selling opportunities, and maximise profitability.

PRODUCTION ESTIMATES

SUMMARY

Octopusbot's 2024/25 production forecasts continued to lead in accuracy and timeliness, with a **median lead time of 7 months** and an **average error margin of 2.6% (97.4% accuracy)**. This reflects a consistent year-on-year improvement in the model performance and reinforces our ability to anticipate crop outcomes well ahead of official agency reports.

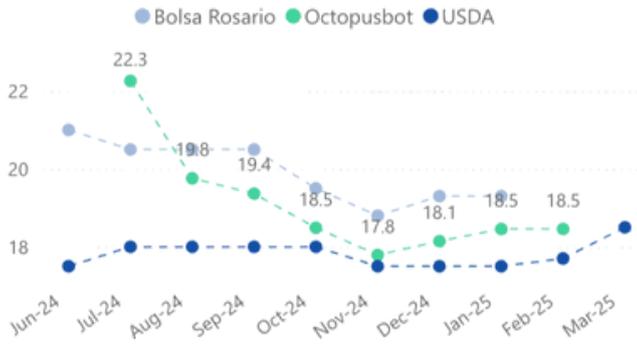
Crop	Country	2024/25				2023/24			
		MT	Leadtime ¹	%Difference	Agency	MT	Leadtime ¹	%Difference	Agency
Wheat	Argentina	18.5	5	4.15%	Bolsa Rosario	14.6	2	0.8%	Bolsa Rosario
	Australia	32.6	0	4.40%	ABARES	23.8	11	8.5%	ABARES - TBC
	Canada	34.4	7	1.71%	AAFC	30.0	3	8.9%	AAFC
	China	143	9	2.07%	USDA	134.1	9	1.8%	USDA
	EU-28	136.8	6	3.32%	USDA	146.4	9	1.8%	COCERAL
	India	107.5	9	5.12%	USDA	109.1	5	1.3%	FAC
	Russia	82.9	5	1.59%	USDA	86.8	7	5.1%	JRC MARS
	Ukraine	23.2	9	0.85%	USDA	22.0	6	0.2%	UGA
	USA	53.4	10	0.56%	USDA	47.5	7	3.2%	USDA
Corn	Argentina	49.2	2	3.58%	Bolsa Rosario	34.4	2	7.0%	Bolsa Cereales
	Brazil	115.6	12	0.09%	Conab	122.2		0.2%	Conab
	China	305.5	7	3.59%	USDA	268.8		6.9%	USDA
	EU-28	59.9	8	1.01%	Eurostat	60.1	5	2.9%	USDA
	Ukraine	27.3	6	1.87%	USDA	26.8		9.6%	UGA
	USA	385.2	7	2.01%	USDA	377.0	6	3.3%	USDA
Soybean	Argentina	48.9	9	0.20%	USDA	23.9	2	3.8%	MAGYP
	Brazil	147.7	8	0.27%	Conab	147.1		4.9%	Conab
	Prgy/Urgy	11	0	19.71%	USDA	10.3	5	0.3%	USDA
	USA	125.2	6	5.39%	USDA	111.1	5	1.9%	USDA
Canola	Australia	5.8	12	1.69%	ABARES	6.0	4	0.9%	ABARES - TBC
	Canada	18.3	7	2.66%	USDA	17.1	8	11.0%	AAFC
	EU-28	18.6	2	2.76%	USDA	21.2	9	0.0%	USDA
Barley	Argentina	4.5	3	6.25%	Bolsa Cereales	4.0	6	20.9%	Bolsa Rosario
	Australia	12.3	0	7.52%	ABARES	10.0	7	7.7%	ABARES - TBC
	Canada	7.6	4	6.17%	AAFC	7.7	5	13.3%	AAFC
	EU-28	59.2	7	2.78%	USDA	55.7	8	1.8%	USDA
	Russia	17.8	1	6.59%	Rosstat	20.2	9	1.6%	USDA
Total Average			7	2.6%			6	3.7%	
Total Median			7	2.8%			6	3.2%	

¹Leadtime: quantity of months before the final estimate within a +/-5% range

* % Difference in absolute value

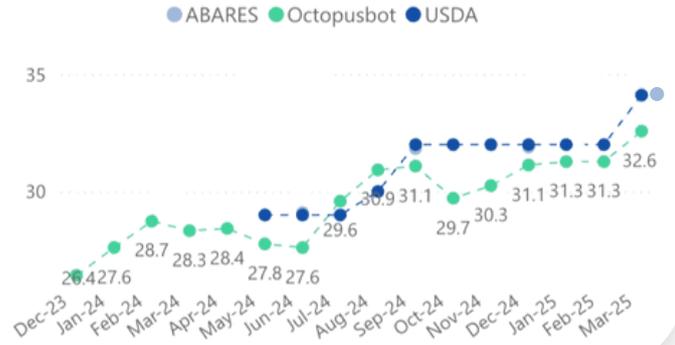
WHEAT

Argentina Wheat Production Estimate 2024/25 MT



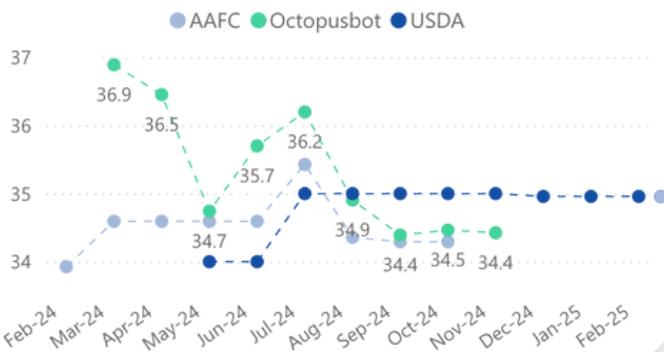
In September 2024, Octopusbot predicted the season's production within 95% accuracy range, **5 months before the final estimate** and **2 months before Bolsa Rosario**, with a **difference of 4.2%** on the final estimate.

Australia Wheat Production Estimate 2024/25 MT



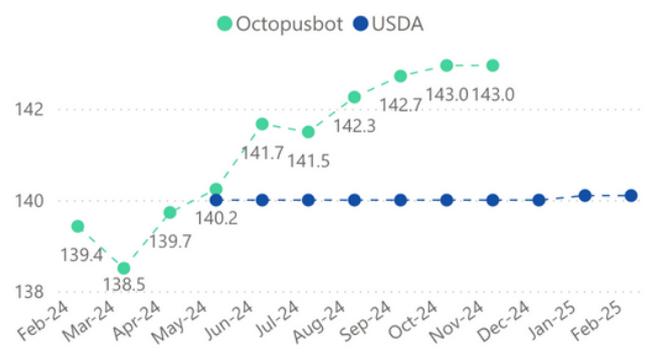
In December 2023, Octopusbot predicted an average and healthy production for the season **11 months ahead of harvest**, with gradual increases driven by higher weather forecast conversions in NSW and WA.

Canada Wheat Production Estimate 2024/25 MT



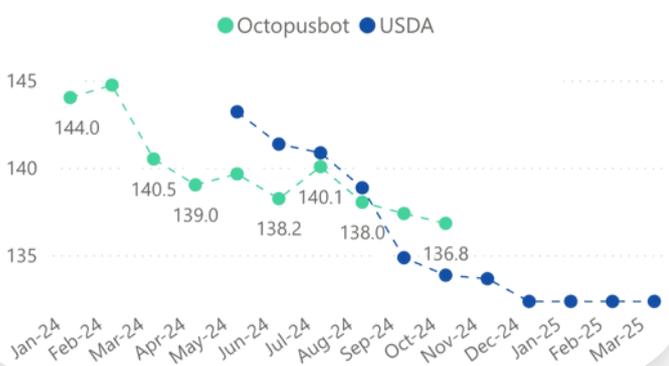
In April 2024, Octopusbot predicted the season's production within 95% accuracy range, **7 months before the final estimate** and **1 month before USDA**, with a **difference of 1.7%** on the final estimate.

China Wheat Production Estimate 2024/25 MT



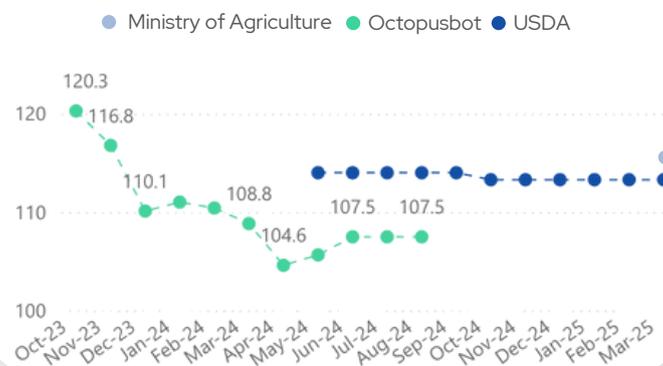
In February 2024, Octopusbot predicted the season's production within 95% accuracy range, **9 months before the final estimate** and **3 months before USDA**, with a **difference of 2.1%** on the final estimate.

EU-28 Wheat Production Estimate 2024/25 MT



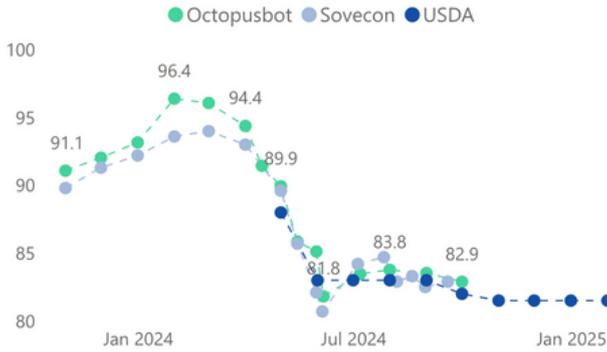
In April 2024, Octopusbot predicted the season's trend within 95% accuracy range, **6 months before the final estimate** and **4 months before USDA**, with a **difference of 3.3%** on the final estimate.

India Wheat Production Estimate 2024/25 MT



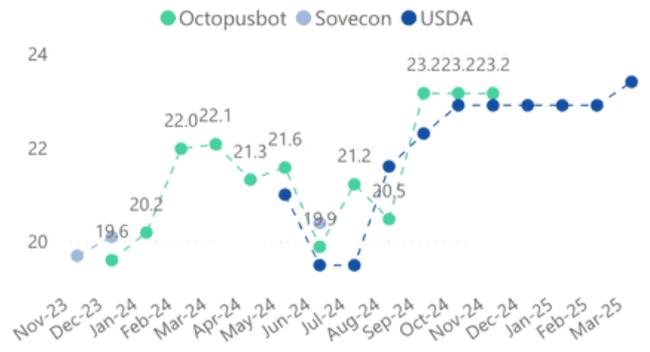
In November 2023, Octopusbot predicted the season's trend within 95% accuracy range, **9 months before the final estimate** and **6 months before USDA**, with a **difference of 5.1%** on the final estimate.

Russia Wheat Production Estimate 2024/25 MT



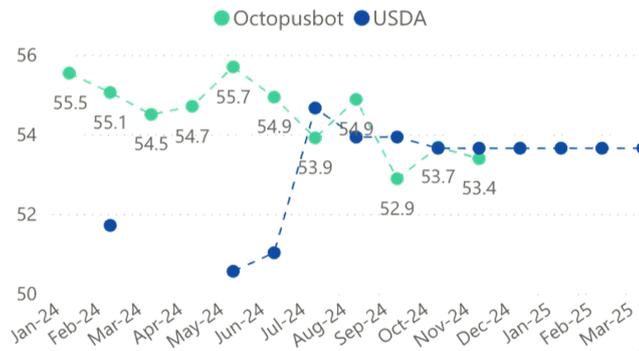
In May 2024, Octopusbot successfully **quantified the impact of the frost events** ahead of other agencies and within a 95% accuracy and **5 months before the final estimate**, with a **difference of 1.6%** on the final estimate.

Ukraine Wheat Production Estimate 2024/25 MT



In February 2024, Octopusbot predicted the season's production trend within 95% accuracy range, **9 months before the final estimate** and **7 months before USDA**, with a **difference of 0.9%** on the final estimate.

USA Wheat Production Estimate 2024/25 MT

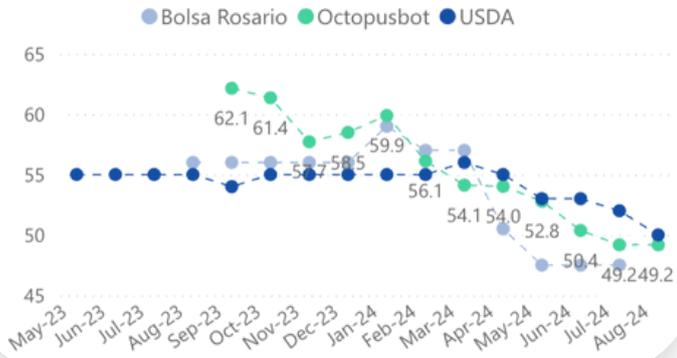


In January 2024, Octopusbot predicted the season's production trend within 95% accuracy range, **10 months before the final estimate** and **6 months before USDA**, with a **difference of 0.6%** on the final estimate.



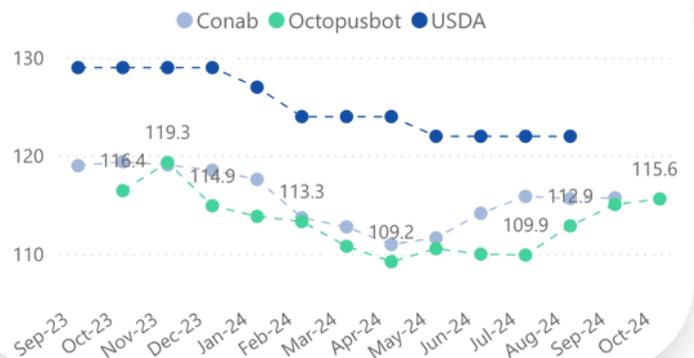
CORN

Argentina Corn Production Estimate 2023/24 MT



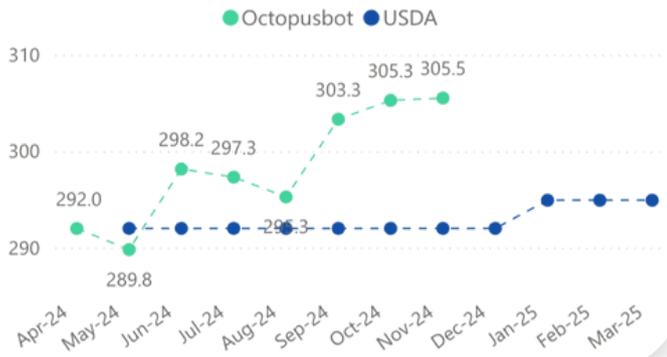
Octopusbot's prediction started higher than the other agencies driven by a positive weather outlook. The **estimate reduced gradually due to leafhopper bug invasion** and dryer conditions.

Brazil Corn Production Estimate 2023/24 MT



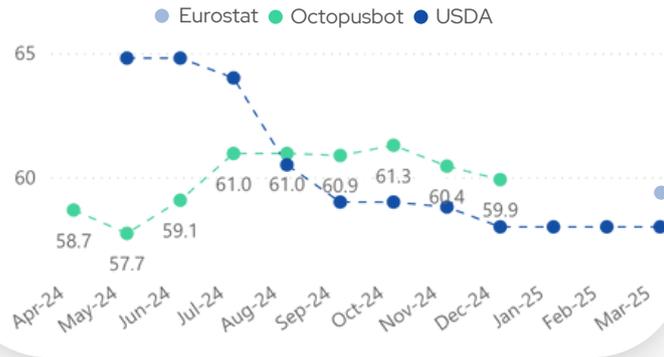
In October 2023, Octopusbot predicted the season's production trend within 95% accuracy range, **12 months before the final estimate** aligned with Conab and lower than USDA throughout the season, with a **difference of 0.1%** on the final estimate.

China Corn Production Estimate 2024/25 MT



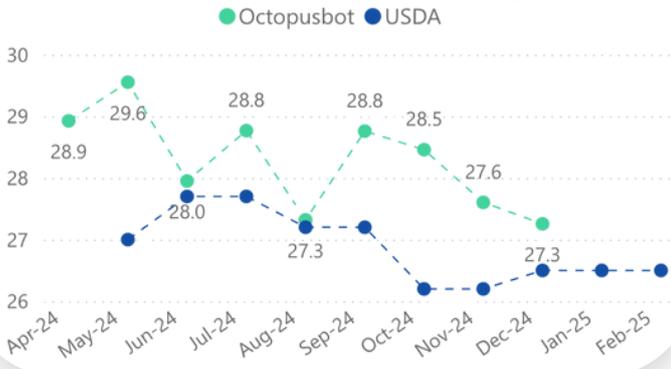
In April 2024, Octopusbot predicted the season's production trend within 95% accuracy range, **7 months before the final estimate** and **1 month before USDA**, with a **difference of 3.6%** on the final estimate.

EU-28 Corn Production Estimate 2024/25 MT



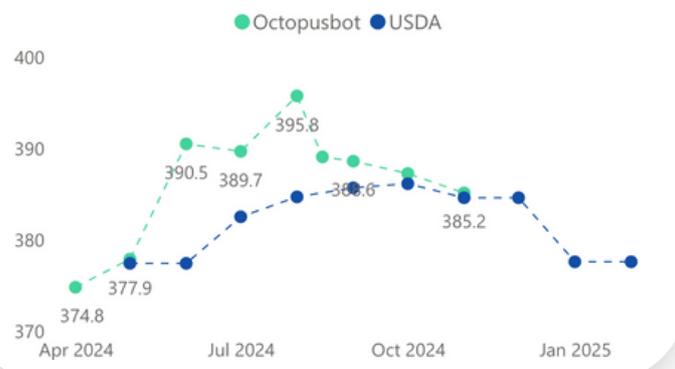
In April 2024, Octopusbot predicted the season's production trend within 95% accuracy range, **8 months before the final estimate** and **4 months before USDA**, with a **difference of 1%** on the final estimate.

Ukraine Corn Production Estimate 2024/25 MT



In June 2024, Octopusbot predicted within 95% accuracy range that the season's production trend would be higher than USDA's estimate, **6 months before the final estimate**, with a **difference of 1.9%** on the final estimate.

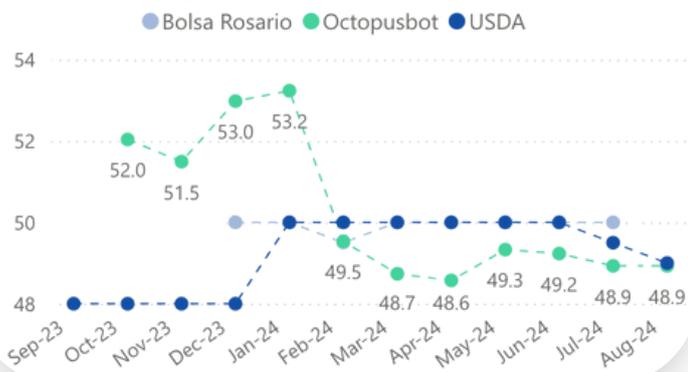
USA Corn Production Estimate 2024/25 MT



In April 2024, Octopusbot predicted within 95% accuracy range that the season's trend would be higher than USDA's estimate, **7 months before the final estimate** and **1 month before USDA**, with a **difference of 2%** on the final estimate.

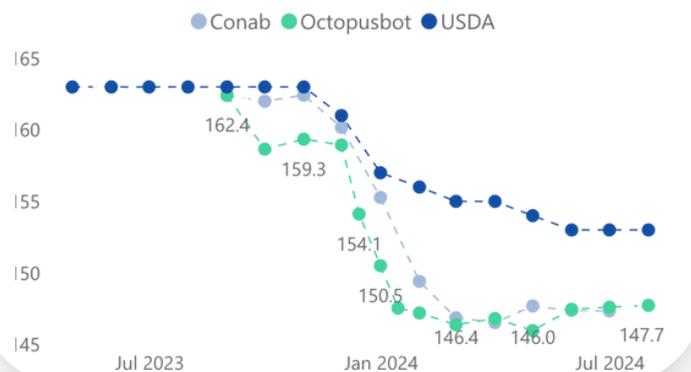
SOYBEAN

Argentina Soybean Production Estimate 2023/24 MT



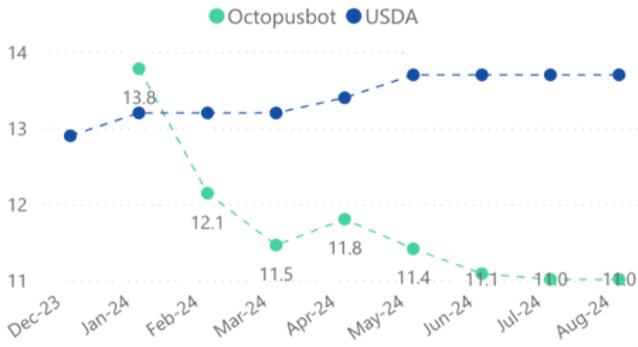
In November 2023, Octopusbot predicted the season's production trend within 95% accuracy range, **9 months before the final estimate**, with a **difference of 0.2%** on the final estimate.

Brazil Soybean Production Estimate 2023/24 MT



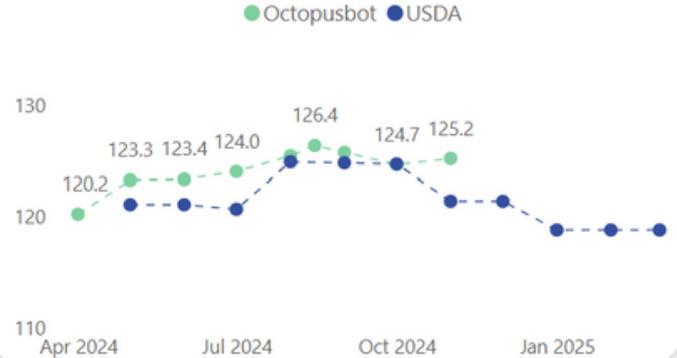
In December 2023, Octopusbot predicted the season's production trend within 95% accuracy range, **8 months before the final estimate** and **2 months before Conab**, with a **difference of 0.3%** on the final estimate.

Prgy/Urgy Soybean Production Estimate 2023/24 MT



In February 2024, Octopusbot's prediction decreased below USDA driven by **extreme low soil moisture**. Extreme high temperatures were experienced in April 2024 and dry conditions persisted for the rest of the season.

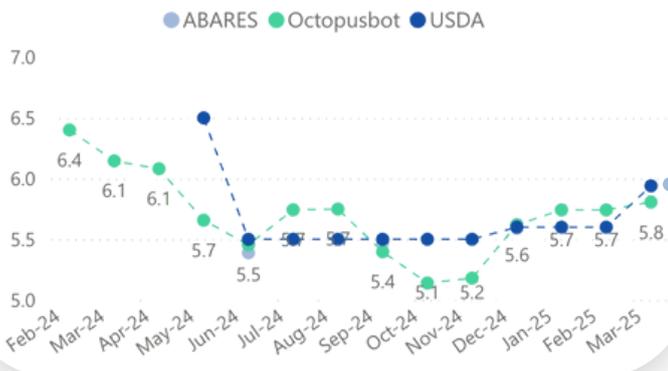
USA Soybean Production Estimate 2024/25 MT



In April 2024, Octopusbot predicted within 95% accuracy range the season's production trend, **6 months before the final estimate** and **1 month before USDA**, with a **difference of 5.4%** on the final estimate due to reduced harvested areas.

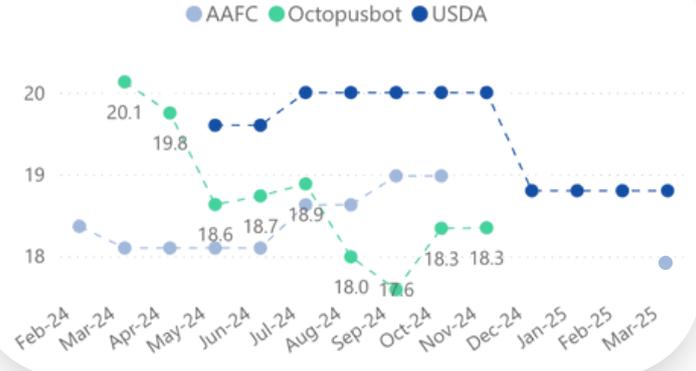
CANOLA

Australia Canola Production Estimate 2024/25 MT



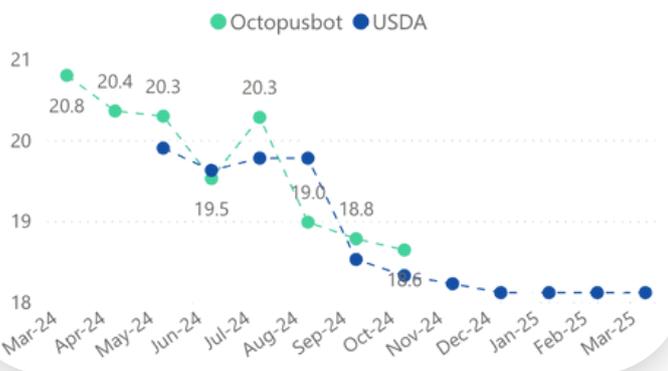
In March 2024, Octopusbot predicted the season's production trend within 95% accuracy range, **12 months before the final estimate** and **3 months before the USDA and ABARES estimates**, with a **difference of 1.7%** on the final estimate.

Canada Canola Production Estimate 2024/25 MT



In April 2024, Octopusbot predicted within 95% accuracy range, that the season's production would trend lower than the USDA, **7 months before the final estimate** and **1 month before USDA**, with a **difference of 2.7%** on the final estimate.

EU-28 Canola Production Estimate 2024/25 MT

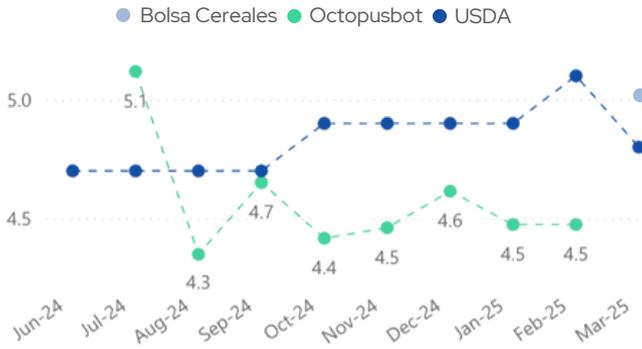


In August 2024, Octopusbot predicted the season's production trend within 95% accuracy range, **2 months before the final estimate** and **1 month before USDA**, with a **difference of 2.8%** on the final estimate.



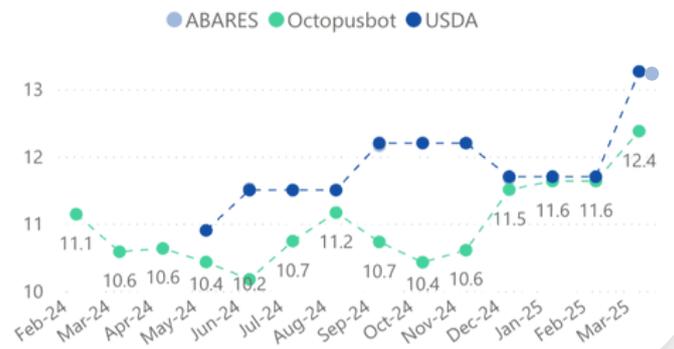
BARLEY

Argentina Barley Production Estimate 2024/25 MT



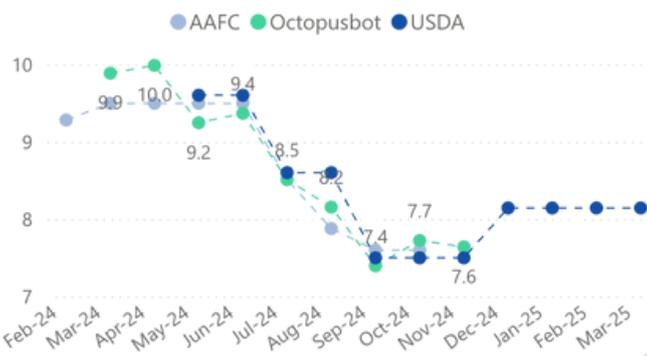
In September 2024, Octopusbot predicted the season's production trend to be **within 95% accuracy range for 3 months**, from September 2024 until December 2024.

Australia Barley Production Estimate 2024/25 MT



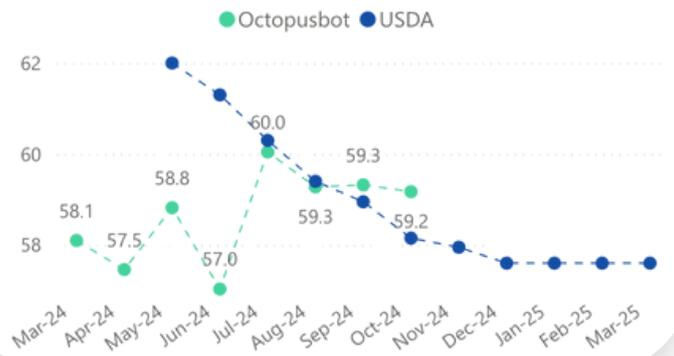
In February 2024, Octopusbot predicted an average and healthy production for the season **8 months ahead of harvest**, with gradual increases driven by higher weather forecast conversions in NSW and WA.

Canada Barley Production Estimate 2024/25 MT



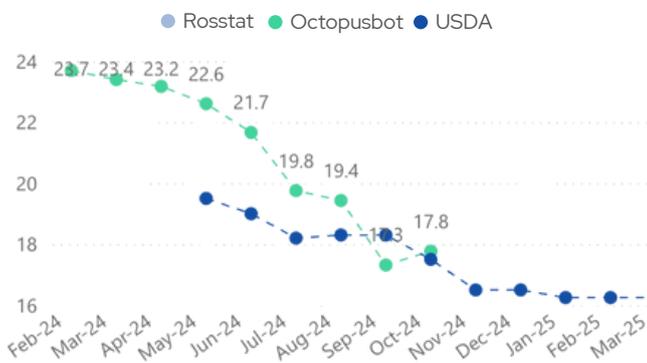
In July 2024, Octopusbot predicted the season's production trend within 95% accuracy range, **4 months before the final estimate** and **2 months before USDA**, with a **difference of 6.2%** on the final estimate.

EU-28 Barley Production Estimate 2024/25 MT



In March 2024, Octopusbot predicted the season's production trend within 95% accuracy range, **7 months before the final estimate** and **4 months before USDA**, with a **difference of 2.8%** on the final estimate.

Russia Barley Production Estimate 2024/25 MT



In September 2024, Octopusbot predicted the season's production trend to be **within 95% accuracy range for 1 month**, from September 2024 to October 2024, with a **difference of 6.6%** on the final estimate.



PRICE ESTIMATES

ASX WHEAT

Octopusbot's seasonal price forecast aligned with the market price from October 2024 to March 2025. The average Octopusbot price forecast for this period was **\$330 versus \$328 for the actual market price**. Octopusbot's forecast held the fair market value during the peak in February providing good selling opportunities for our customers.

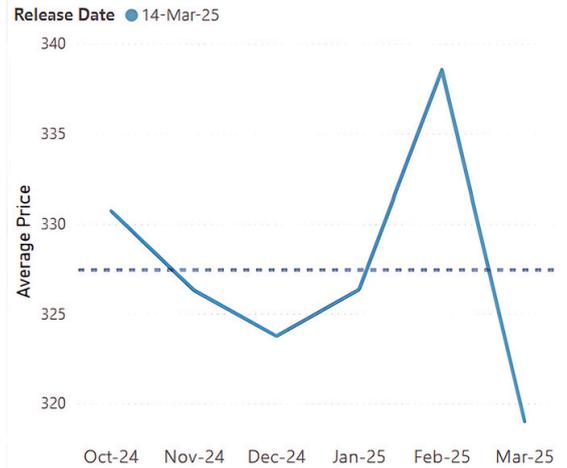
Price Estimates Season 2024/25 - Weekly Release

Price Estimates Season 2024/25 - Weekly Release

Average Price - Selected Months



Average Price - Selected Release Date



Weekly Octopusbot Average Price ASX Wheat Estimates Oct-24 to Mar-25.

Monthly Average Actual Price ASX Wheat.

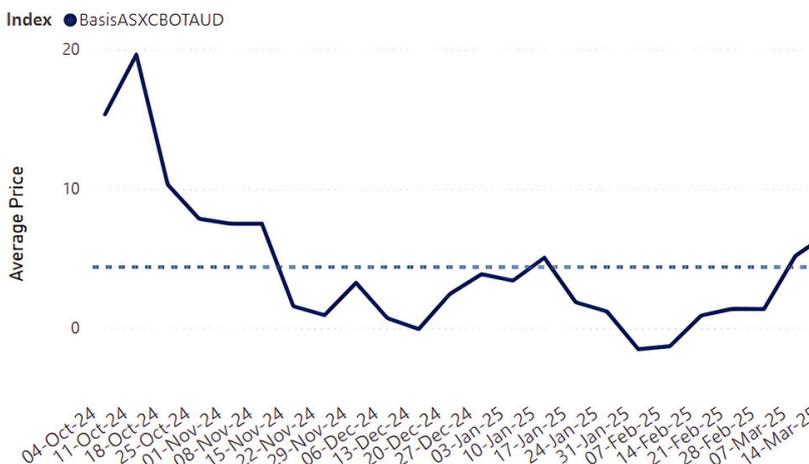
ASX WHEAT VS. CBOT BASIS

Octopusbot's seasonal basis forecast from October 2024 to March 2025 correctly predicted the season price. The average Octopusbot basis forecast for this period was **\$4.5 versus \$6 for the actual market basis**. Octopusbot's forecast reduced their basis estimate below the \$10 mark at the end of October, **1 month before the market** and sustained the estimate close to \$0 from December 2025 until the end of the season.

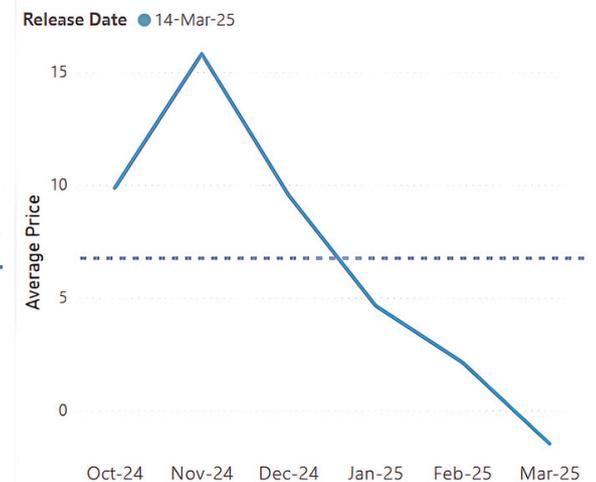
Price Estimates Season 2024/25 - Weekly Release

Price Estimates Season 2024/25 - Weekly Release

Average Price - Selected Months



Average Price - Selected Release Date



Weekly Octopusbot Average Price ASX CBOT Wheat Basis Estimates in \$AUD.

Monthly Average ASX CBOT Wheat Basis Actual in in \$AUD.

ASX BARLEY

Octopusbot's seasonal price forecast aligned with the market price from October 2024 to March 2025. The average Octopusbot price forecast for this period was **\$290 versus \$285 for the actual market price**. Octopusbot's forecast held the fair market value during the peak in February providing good selling opportunities for our customers.

Price Estimates Season 2024/25 - Weekly Release

Price Estimates Season 2024/25 - Weekly Release



Weekly Octopusbot Average Price ASX Barley Estimates Oct-24 to Mar-25 in \$AUD/Ton.

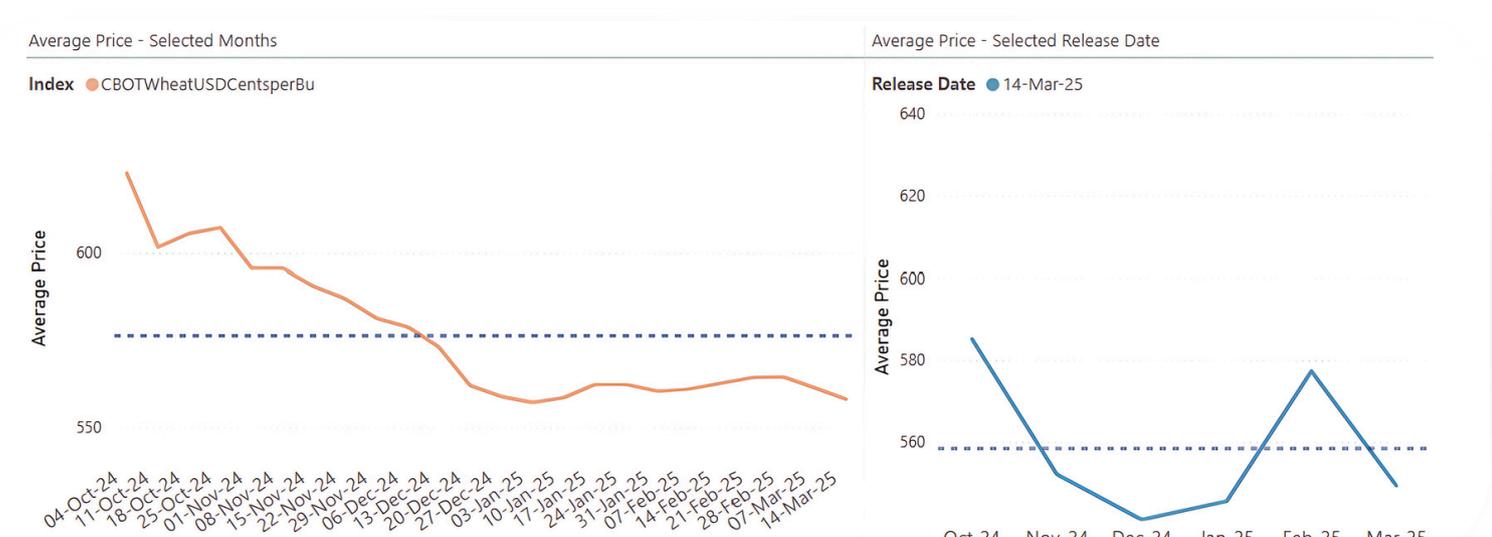
Monthly Average Actual Price ASX Barley in \$AUD/Ton.

CBOT WHEAT

Octopusbot's seasonal price forecast aligned with the market price from October 2024 to March 2025. The average Octopusbot price forecast for this period was **\$575 versus \$560 for the actual market price**. Octopusbot's forecast held the fair market value during the peak in February providing good selling opportunities for our customers.

Price Estimates Season 2024/25 - Weekly Release

Price Estimates Season 2024/25 - Weekly Release



Weekly Octopusbot Average Price CBOT Wheat Estimate Oct-24 to Mar-25 in \$USDCents/Bu.

Monthly Average CBOT Wheat Actual in \$USDCents/Bu.

CBOT CORN

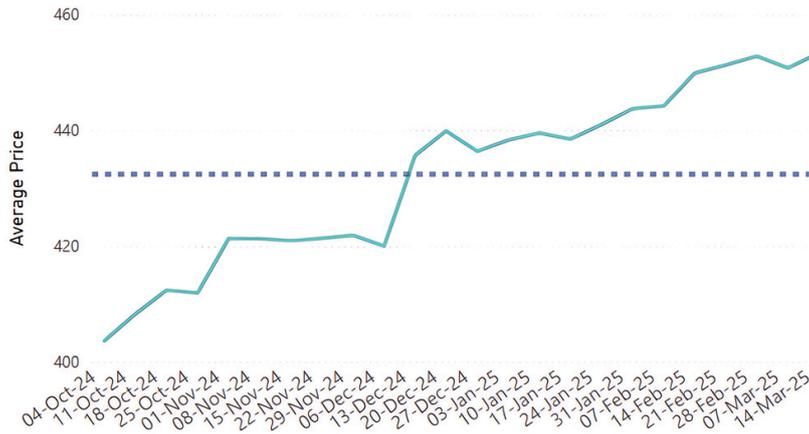
Octopusbot's seasonal price forecast followed the upward market trend from October 2024 to March 2025. The average Octopusbot price forecast for this period was **\$435 versus \$455 for the actual market price**. Octopusbot's forecast held the fair market value during the peak in February providing good selling opportunities for our customers.

Price Estimates Season 2024/25 - Weekly Release

Price Estimates Season 2024/25 - Weekly Release

Average Price - Selected Months

Index ● CBOTCornUSDCentsperBu



Average Price - Selected Release Date

Release Date ● 14-Mar-25



Weekly Octopusbot Average Price CBOT Corn Estimate Oct-24 to Mar-25 in \$USDCents/Bu.

Monthly Average CBOT Corn Actual in \$USDCents/Bu.

CBOT SOYBEAN

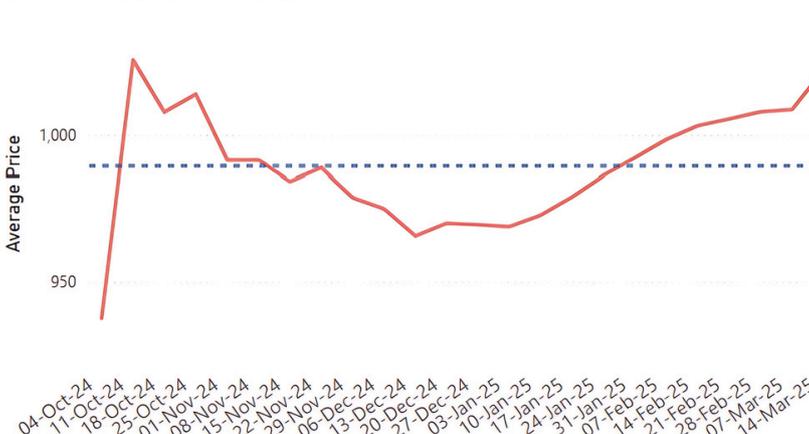
Octopusbot's seasonal price forecast followed the market trend from October 2024 to March 2025. The average Octopusbot price forecast for this period was **\$995 versus \$1020 for the actual market price**.

Price Estimates Season 2024/25 - Weekly Release

Price Estimates Season 2024/25 - Weekly Release

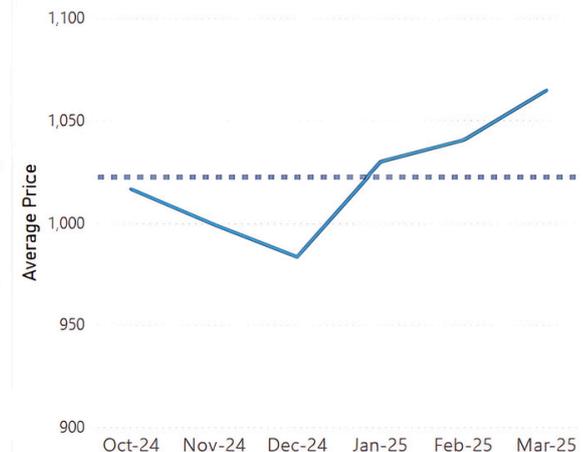
Average Price - Selected Months

Index ● CBOTSoybeanUSDCentsperBu



Average Price - Selected Release Date

Release Date ● 14-Mar-25



Weekly Octopusbot Average Price CBOT Soybean Estimate Oct-24 to Mar-25 in \$USDCents/Bu.

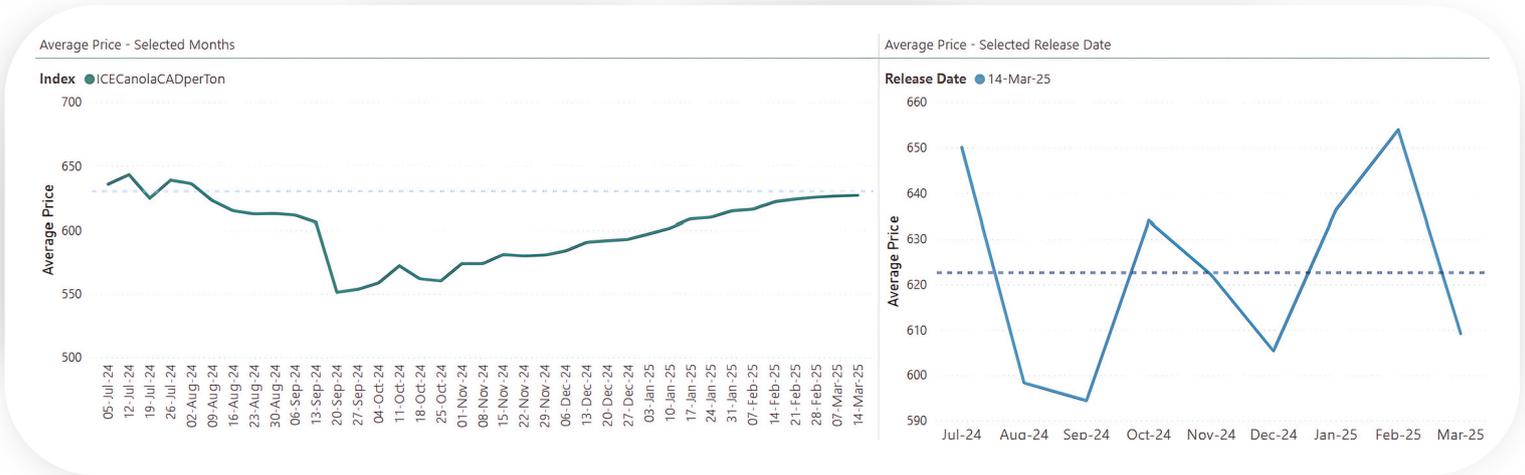
Monthly Average CBOT Soybean Actual in \$USDCents/Bu.

ICE CANOLA

Octopusbot's seasonal price forecast went lower and less volatile than the market price from July 2024 to March 2025. The average Octopusbot price forecast for this period was **\$627 versus \$622 for the actual market price**.

Price Estimates Season 2024/25 - Weekly Release

Price Estimates Season 2024/25 - Weekly Release



Weekly Octopusbot Average Price ICE Canola Estimate
Oct-24 to Mar-25 in \$CAD/Ton.

Monthly Average ICE Canola Actual in
\$CAD/Ton.



Octopusbot is a pioneer SaaS platform helping agribusinesses mitigate price volatility and weather risk with accurate AI forecasts. With over 2k AI interconnected models simulating the grain and oilseed markets, we provide unparalleled accuracy (>97%) 6 months ahead of the market to mitigate risk and maximise profits.

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