Sorghum and DDGS As Feedstock in India

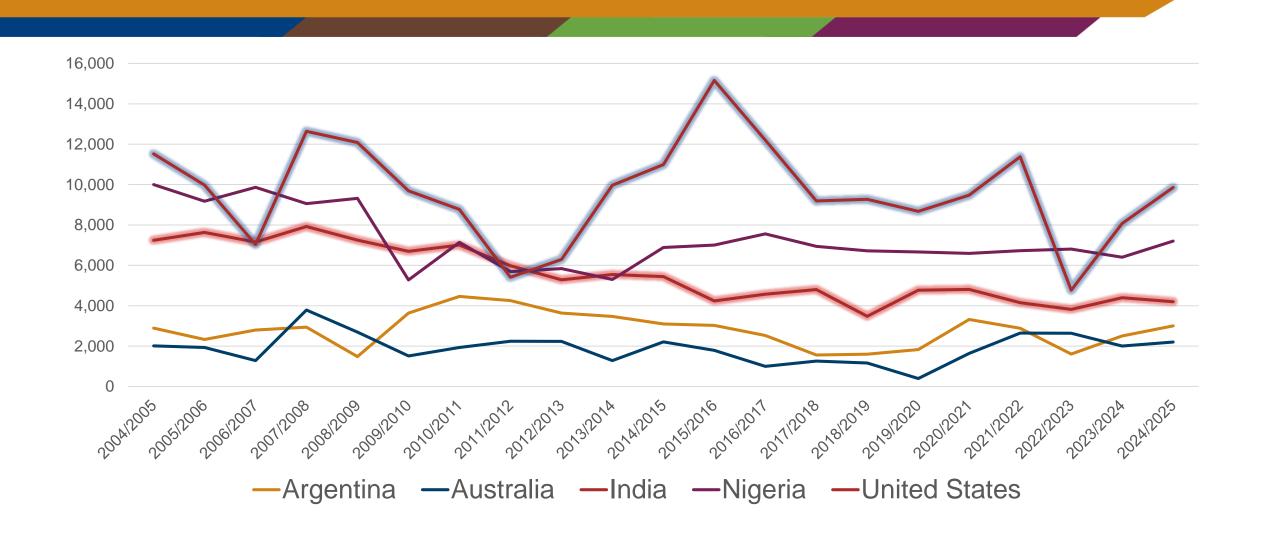
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SEPTEMBER 21, 2024
GOA, INDIA



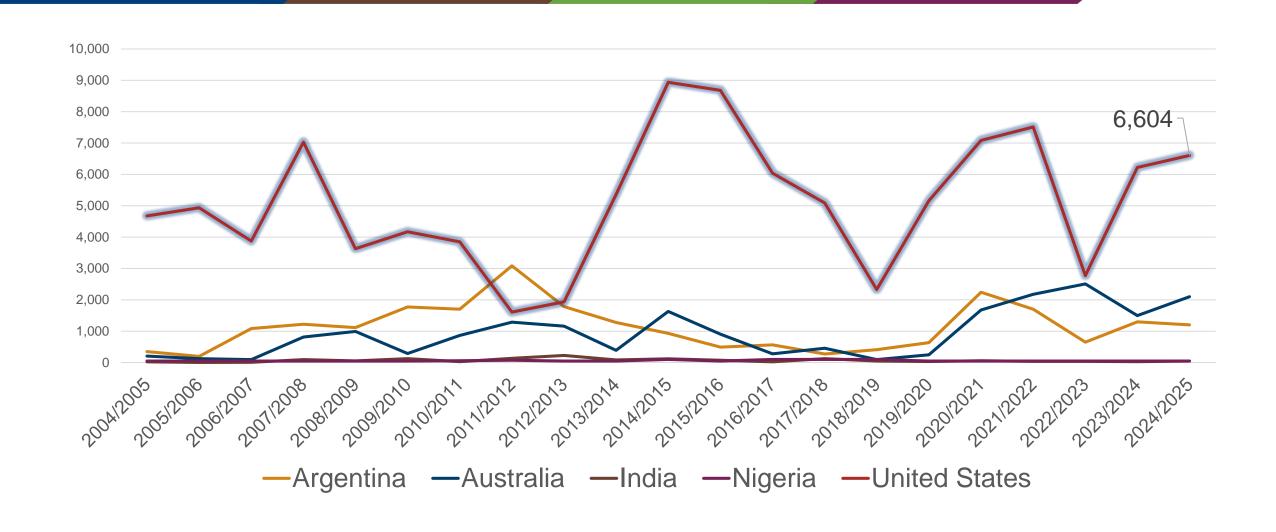
Sorghum



Global Sorghum Production By Country (TMT)

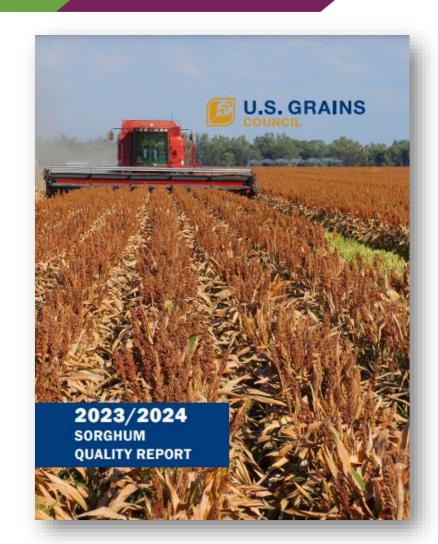


Global Sorghum Exports By Country (TMT)



Why Is U.S. Sorghum Different?

- U.S. sorghum is primarily "yellow grain sorghum" or you might call it "red sorghum"
- It is tannin free
 - Yes, it is completely tannin free
- It has higher protein content than other varieties of sorghum
- U.S. sorghum is non-GMO
- It is drier than other countries' sorghum, so it stores and transports very well



How To Use Sorghum?

- U.S. sorghum can replace corn 100% in poultry diets.
 - It can also be used a supplement to corn in poultry rations.
- U.S. sorghum can replace corn 100% in dairy diets.
 - It can also be used to supplement corn in dairy rations.
 - Sorghum DDGS also do exist and can be used in dairy rations up to 25%.



FEED VALUE BENEFITS
OF SORGHUM FOR POULTRY





SORGHUM USE IN DAIRY CATTLE DIETS



Corn DDGS



Indian Corn DDGS Production Explodes

- In accordance with the National Policy Biofuels in India, the country will strive for a 20 percent ethanol blend in vehicles by next year.
- December 2023 India moves toward corn for ethanol production.
- 2024 India likely to use 5 MMT of corn for ethanol production
 - This means that there will be over 1.6 MMT of corn DDGS available in country – and that number is likely to grow in the coming years
- It is very important that Indian feed producers look to DDGS as a viable ingredient to help sustain operations during a time of high input prices
 - Current price is 14 15 INR/kg for Indian DDGS

Considerations for Corn DDGS

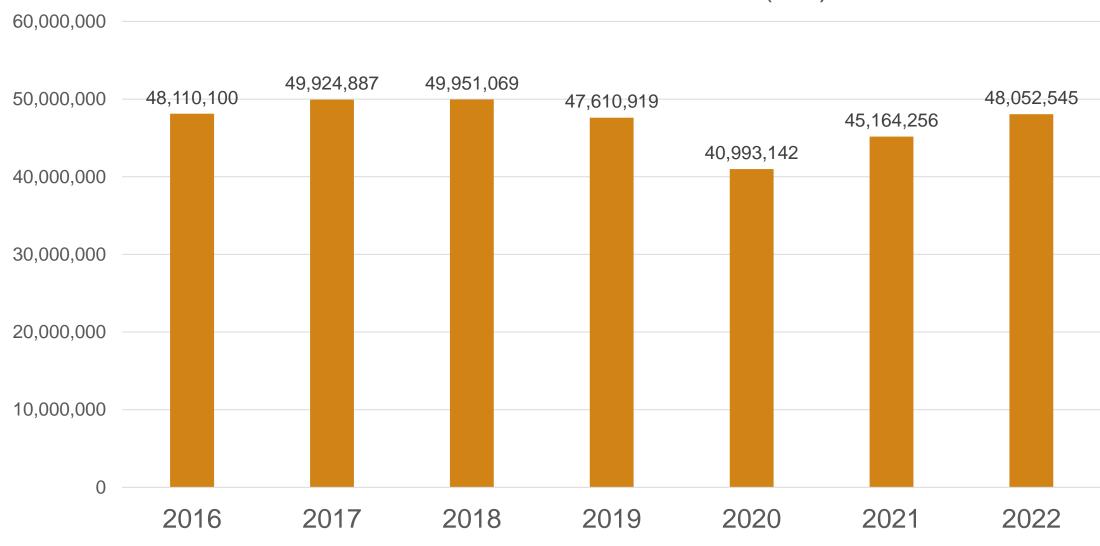
MAX INCLUSION RATES

- Broiler
 - Starter 6%
 - Grower/Finisher 12%
- Layer 15%
- Aqua Species Dependent
 - Vannamei 10%
 - Some studies looking at replacing fish meal entirely with higher protein products
 - Carp 25%
- Swine
 - Growing 25%
 - Finishing 20%
- Dairy 30% of total ration

INGREDIENT MANAGEMENT

- DDGS replaces some SBM and some corn, but not all
 - Will require added lysine to improve amino acid profile
- "Profat" can often be used, but we need to understand the breakout of protein and fat
- Color is not always an indication of nutrition
- Aflatoxin has been a concern in India, but is not a concern for imported products
 - Form relationships with suppliers and test, test, test

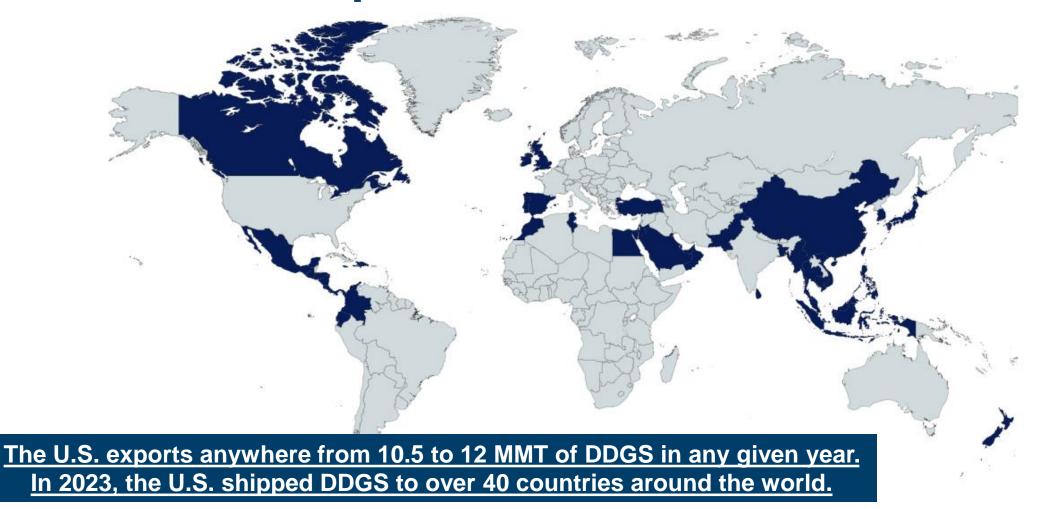
U.S. Distillers' Grains Production (MT)



Source: USDA NASS



U.S. DDGS Exports in 2023







THANK YOU!

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