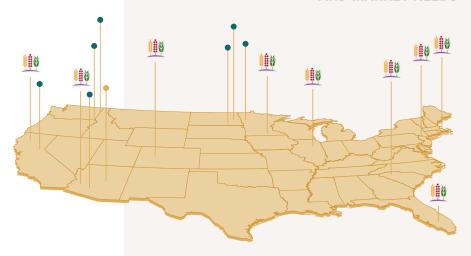


Company Overview: Bay State Milling

- Bay State Milling combines a 120-year familyowned heritage in wheat milling with the latest advancements in plant-based nutrition
- We exist to provide food ingredients that promote the growth of healthful and affordable food choices
- Today, BSM offers an unrivaled portfolio of traditional grains, global specialty supply chains, and unique varietal solutions that equip our customers to win

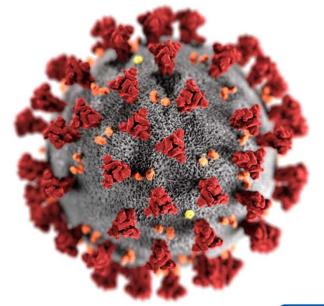
WITH HEADQUARTERS PROUDLY LOCATED IN BOSTON, BSM OPERATES A BROAD NETWORK OF ASSETS STRATEGICALLY LOCATED NEAR SOURCING REGIONS AND MARKET NEEDS



- Bay State Facility
- HealthSense Farming
 Location
- HealthSense Milling Location

The last 3 years have been dominated by the pandemic, supply chains and labor constraints

While the world focused on the pandemic.
Markets turned upsidedown.

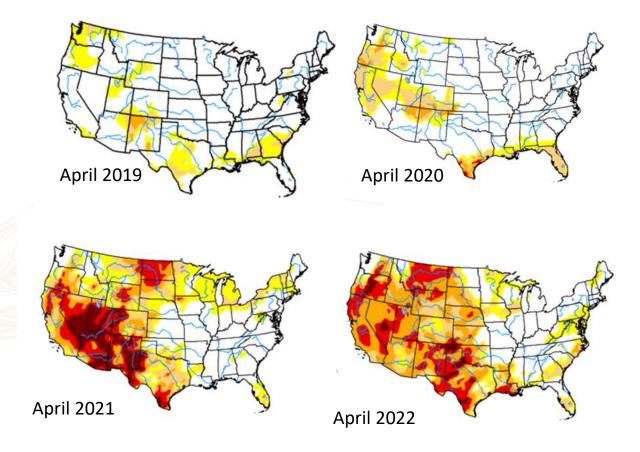




Persistent Drought: Crop supply yield shock

Year over year Persistent Drought stresses agricultural land. Conventual Wheat Acres continue to be stressed reducing carry over stocks. USDA's March 31st Planting estimates indicate lower acres planted to wheat even at record high futures prices. For the first time Soybeans out pace corn for total acreage.

Rising Input costs to Farmers
Fuel
Fertilizer

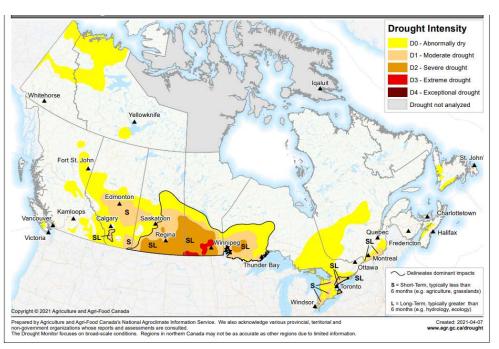


Sources: [1] " US Drought Monitor the National Drought Mitigation Center, University of Nebraska-Lincoln

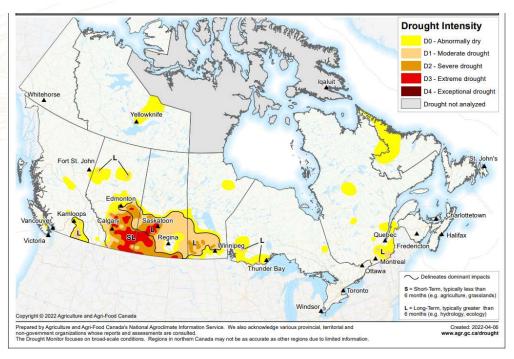
Persistent Drought:

Canadian Prairies

As of March 31st, 2021



As of March 31st, 2022



Wheat Futures: Geopolitical shocks

Geopolitical events (Russia's invasion of Ukraine) Both major Wheat Exporters (close to 30% of global supply)

- Inflation
- Climate change
- Rising Input costs
- UN FAO Food price Index up 12.6% February 2022





From Pakistan to Peru, soaring food and fuel prices are tipping countries over the edge

When people took to the streets in Egypt in 2011, protesters chanted about freedom and social ...

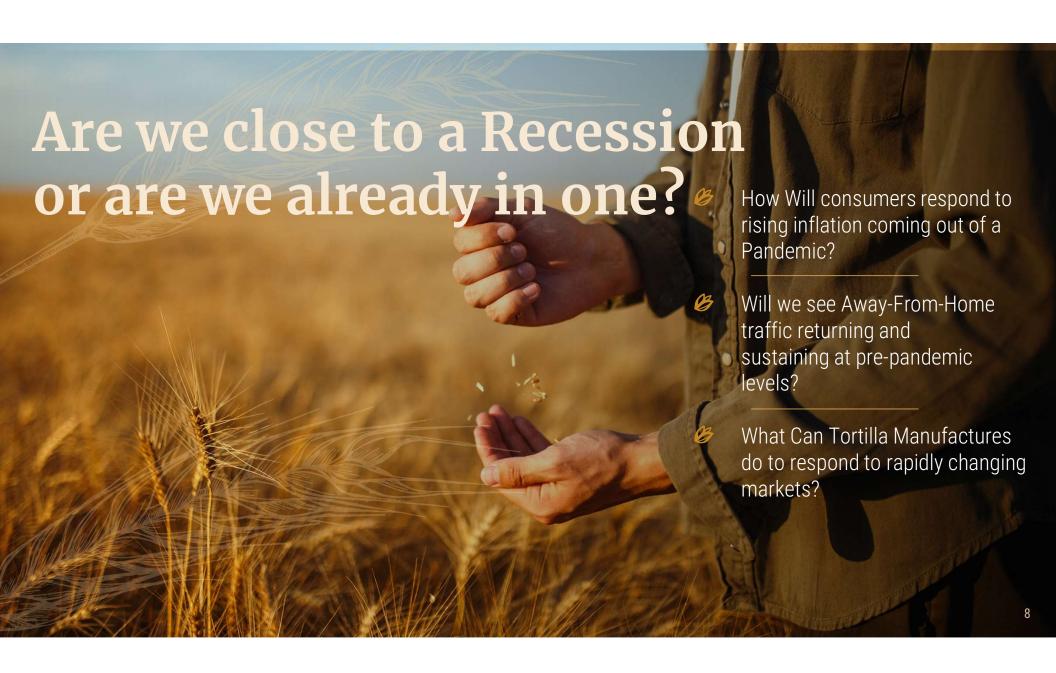
CNN - 2d

JS Drought Monitor the National Drought Mitigation Center, University of Nebraska-Lincoln

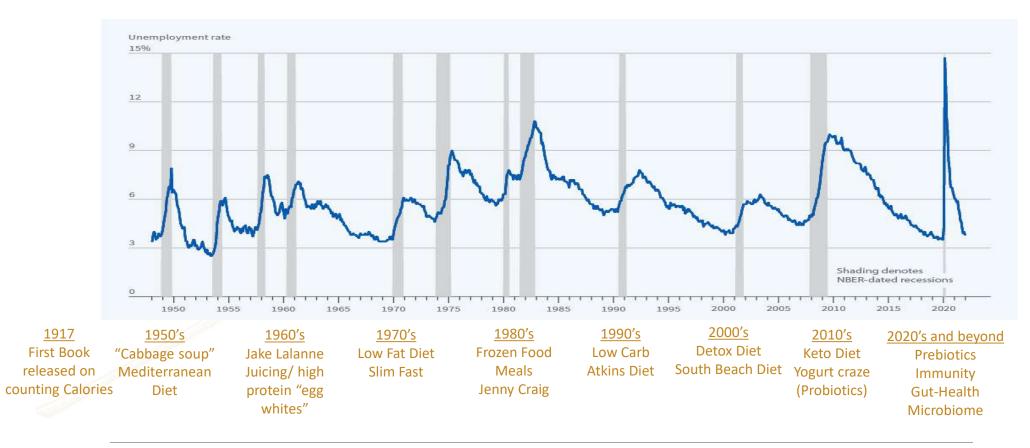
Wheat Futures:

May Wheat Futures on CBOT reach highs not seen since the 2008 Finical Crisis. 20-year view





Recessions and Consumer diet trends:



Common core: Fiber

The Fiber Gap: 95% of People Fall Short!

The Gap Defined:

Only **5%** of the population gets enough fiber daily.

And among those who fall short, they miss the mark significantly - **only** consuming on average half of the recommended daily intake amount

(14g/1,000 kcal/day)



95% OF AMERICANS ARE ONLY GETTING 50% OF RECOMMENDED DAILY DOSE OF FIBER



- × Poor taste
- × Few options
- × Lack of education

Rising Demand for Fiber: An Untapped Market

Early-adopting consumers recognize multitude of benefits derived from fiber and taking steps to find products that deliver them

WHY IT MATTERS

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Today's US population in midst of the Fiber Gap: **Only 5%** of people get the **recommended daily dose** of fiber ¹

THE WAVE IS COMING



60% of consumers are actively **trying to consume**more fiber ²

HIGH PURCHASE INTENT



9 in 10 consumers are **interested in buying** products made with High Fiber Flour and replacing flour typically used with a High Fiber version ³

EMERGING UNDERSTANDINGOF FIBER'S HEALTH HALO



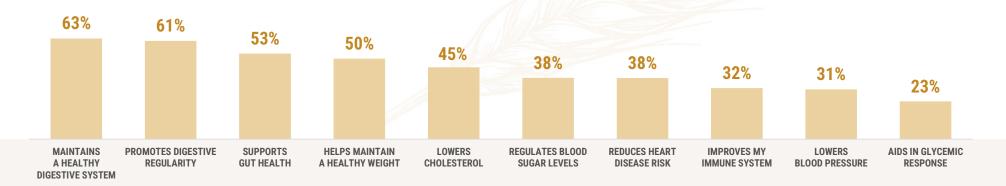
Fiber ranked #1 in perceived healthfulness (above plant-based protein, whole grain, probiotics, etc.) ²

Opportunity: Broaden Fiber's Benefits

Health Benefits Associated with Dietary Fiber (N=1,500)

The majority of consumers associate fiber with digestive and gut health.

There's an opportunity to communicate about its broader benefits that consumers are starting to associate with dietary fiber.



WHICH OF THE FOLLOWING HEALTH BENEFITS, IF ANY, DO YOU ASSOCIATE WITH DIETARY FIBER?

Breakthrough Fiber Source, Directly From the Farm!

Non-Commodity Wheat

Stable Pricing not impacted by Geopolitical events

HIGH FIBER WHEAT FLOUR

Delivers up to 10x the amount of fiber in a finished product compared to traditional wheat flour

PREBIOTIC POWER

Naturally occurring resistant starch fiber to nourish gut health

CLEAN LABEL & WHOLE FOOD

Labels simply as wheat, allowing a reduction or replacement of fiber additives

SENSORY & FUNCTIONALITY

Same **great taste, texture** and performance of white refined flour with nutritional profile of whole wheat flour







Range of Benefits, Across a Range of Applications

Nutritional Improvements Comparison Using High Amylose Wheat Flour

(assumes an average 50% inclusion level)

		CALORIES (cal/serving)			FIBER (gram/serving)			NET CARBS (gram/serving)		
Application (RACC/serving size)		100% Traditional Flour	50% High Amylose Wheat™ Flour	% decrease vs. control	100% Traditional Flour	50% High Amylose Wheat™ Flour	% increase vs. control	100% Traditional Flour	50% High Amylose Wheat™ Flour	% decrease vs. control
1	Flour, as is (30g)	110	100	-9%	<1	6	+600%	22	16	-28%
110	White Bread (50g)	140	120	-14%	1	4	+300%	24	21	-13%
Y	Tortillas (55g)	160	140	-13%	1	4	+300%	26	23	-12%
	Pasta (55g)	200	180	-10%	2	7	+250%	39	34	-13%
×	Macaroni & Cheese (~70g dry mix, makes 1 cup)	250	220	-12%	2	10	+400%	45	37	-18%
A.	Pizza crust (55g)	140	130	-7%	1	4	+300%	24	21	-13%
É	Pancakes (110g)	310	300	-3%	2	4	+100%	37	35	-5%
•	Crackers (15g)	80	70	-13%	<1	3	+300%	11	8	-28%

Sprouted Whole Wheat Excellent Source of Fiber

Sprouted Wheat Flour

Increased Enzyme activity, Longer stabilities. Shorter proofing

Protein/ Enzymes

40% increase in free amino acids
Protease enzymes aid in digestion of
protein. Increase amylase enzymes
creating shorter carbohydrate chains
and increase maltose

Economics

Sprouted Wheat flour differentiates Whole wheat beyond commodities and provides premium value to consumers.

Flavor/ Texture

The sprouting process increases overall sweetness, reduced bitterness and increased perception of Moistness leading to increased consumer acceptability

Ease of use

Sprouted Whole Wheat flour can be utilized at 100% of the flour formulation in tortillas and breads.







Pulses & Chickpeas Excellent Source of Fiber & protein

12 -2 -

Excellent Source of Fiber and crude Protein

Chickpea Flour

Complementary Protein

Chickpeas and Legumes are high in Lysine the limiting amino acid in cereal grains.

Complexing of protein sources can lead to more complete protein

Economics

Chickpeas are a domestic crop and one of the most economical sources of plant-based protein a fiber. A true homerun.

Sustainability

Excellent for crop rotations, Pulses are nitrogen Fixators. Can combat rising input costs on fertilizer

Ease of use

Chickpea flour both whole and Decorticated are easy to incorporate into traditional tortilla formulas with minor adjustments. Or as the main structure in GF formulations.









Millet & Sorghum

High in crude protein amongst cereal grains. Ancient grain appeal to consumers

Economics

Sorghum and Millet are complimentary alternative grains that can succussed in arid environments and changing climates.(Southwest)

Domestic Supply chain

Sustainability

Excellent for crop rotations, and drought resistant. Noncommodity grain. Good insect and disease resistant. Maintains Soil Health

Ease of use

Millet and Sorghum are great **neutral flavor** GF flours that supplement wheatbased tortillas or the main component of Gluten free tortillas.





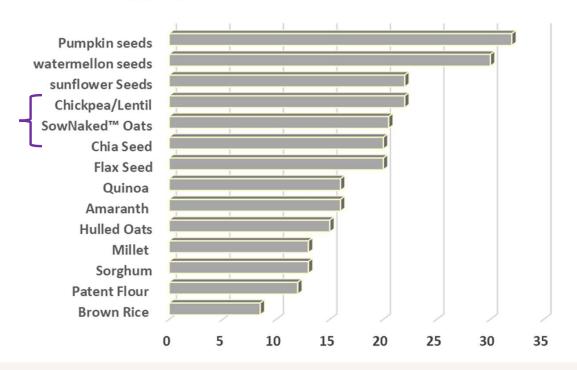


2023 Year of the Millet

Plant Based protein:

Plant-Based Protein Comparison

Grams per 100g (dwb)



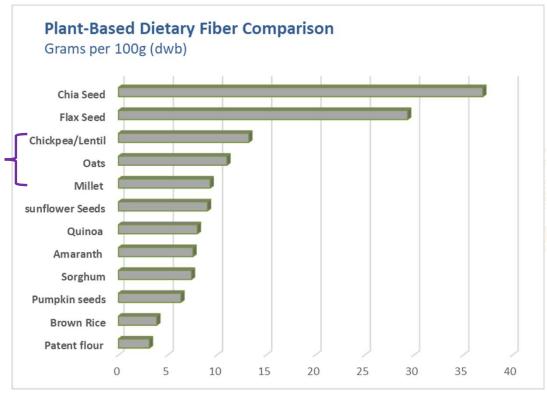
- Pumpkin, Watermelon and Sunflower top the list on fiber concentration
- With up to twice the protein concentration in Hulless SowNaked™
 oats and Chickpea flour compared to patent flour and even more so
 when compared to rice flours in Gluten free tortillas. Formulating in
 protein is much more easily obtained with functional flours.
 - Protein as nature intended

Bay State Milling at Center of Various Consumer Trends & Supply Chains resiliency.





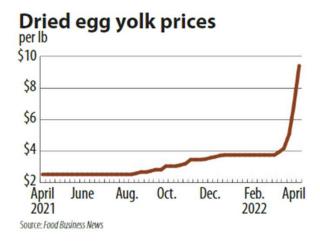
Plant Based Fiber sources:



- Chia and Flax Seeds top the list on fiber concentration
- Structure building flours sourced from Chickpeas, oats and millet can functionally displace traditional patent flour bringing more then twice the fiber contribution



Industry shocks to agriculture continued



 HPAI (Highly Pathogenic Avian Influenza)