

Brought to you by Bayer Crop Science with Dr. Chow-Ming Lee and Kathy Smith, MS

PRODUCE FOR®
BETTER HEALTH
FOUNDATION









Spread the Fruit and Veggie Love #haveaplant

- @fruits_veggies
- f @fruitsandveggies





A New Era In Vegetables....

Getting to Know The Tastes and Preferences of Produce Consumers

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Our Breeding Crops









Consumer











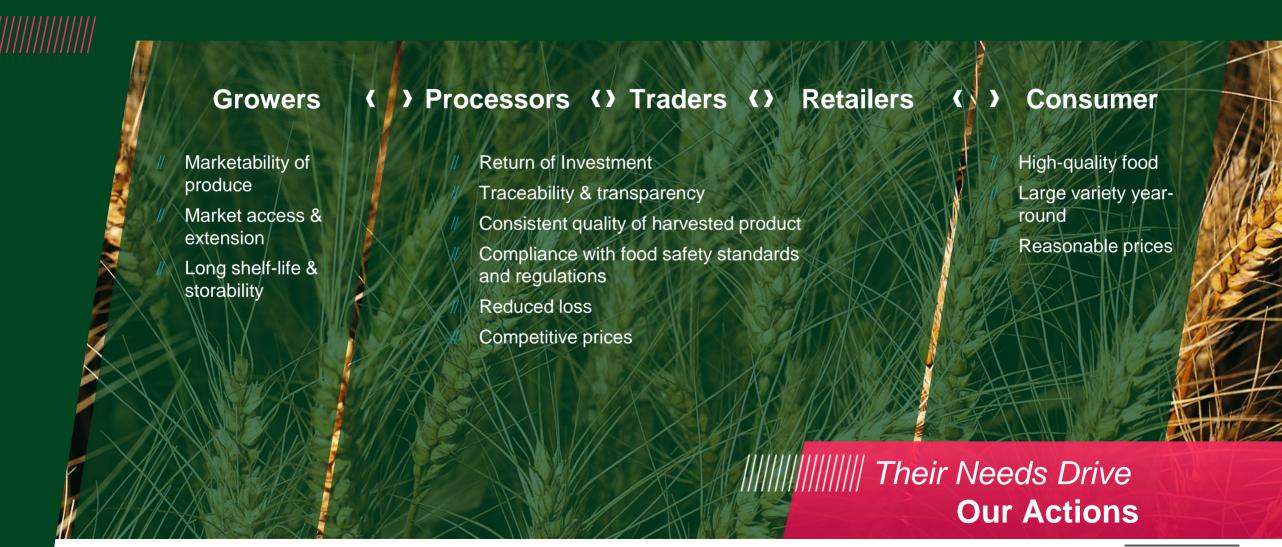


Trends Influencing the Food Value Chain





The Chain is Our Customer





Vegetable Innovation for Retailers and Consumers...

Our mission is to improve grower productivity, as well as increase worldwide consumption of fruits and vegetables, by developing new products through breeding and nutritional science innovation.

Veg Consumer Research (2008) US & EU-5 Consumer Preference for Fresh Vegetables

Sensory Experience



e.g

// Taste / Aroma / Flavor

Color

Texture

Nutrition & Health



e.g

Increase consumption by improving flavor

Convenience



e.g

Freshness Shelf life Fresh cut





Population Changes Challenge Current Food Chain System and Create Polarization

Changes



Urbanization



Convenience



Transparency

Solutions



Advanced Horticulture



Digital Tools



Data Analytics







Welcome to the world of consumer....



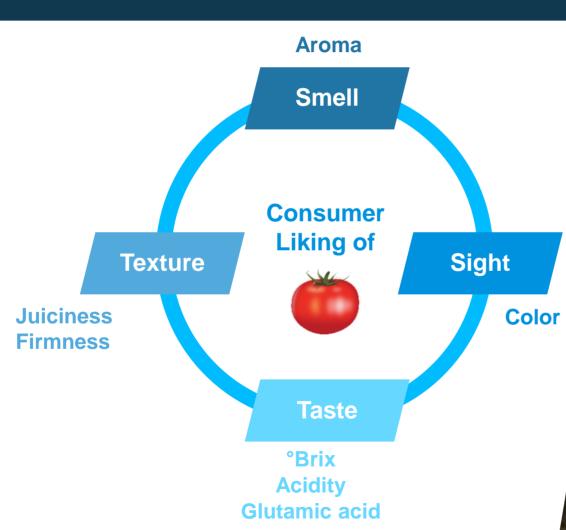




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Improving flavor by measuring its key components

Bringing the expertise and analytical toolbox together









Crave™ Cantaloupe

Flavor

It's time for a melon that demands a reaction.





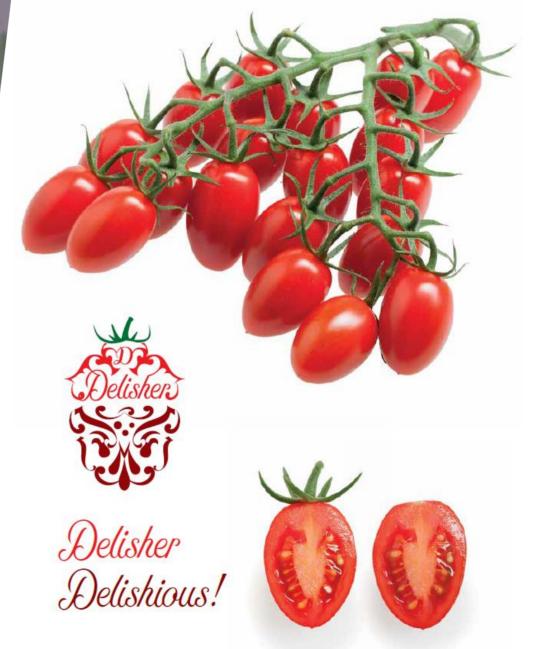




Flavor is making a huge comeback in the melon category, and we're leading the charge with new Crave cantaloupe melons—your shoppers' newest sweet escape from the bland and boring. Crave isn't your typical fruit salad filler. It features the Flavorfull™ Ripening Indicator, which turns skin a golden straw color at peak ripeness. So you can be confident you're getting fresh, delicious, ready-to-eat melons every time.









Two main approaches for *flavor understanding*

Consumer Hedonic focus

Ratings of acceptance or preference with selected employees

>100 subjects

Sensory Attributes focus

Ratings of attributes assumed to be important to consumers

10 to 40 subjects





Design

You can control

Coding

3-digit numbers, preparer doesn't participate

Ask the right questions
Know what you want

Serving order

Randomize or use software

Sample Uniformity a

Uniformity and representative



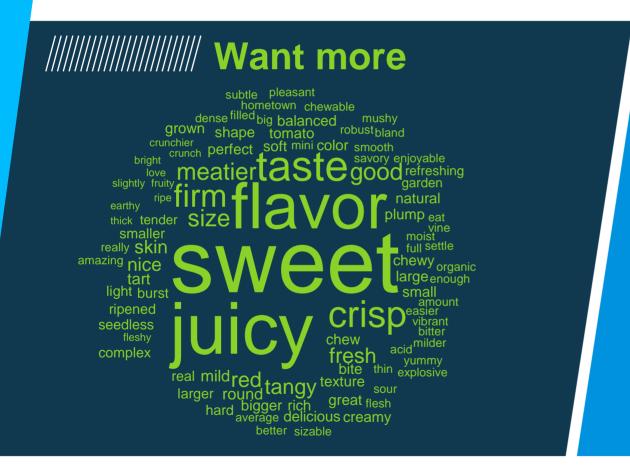




Consumers are demanding produce with better INHERENT sensory appeal



Let's skip the added sugar, salt, salad dressing, etc.





Whole cherry tomato consumer impressions based on the comments received





Multiple Factor Analysis (MFA) of analytical and consumer data shows positive and negative analytical measurements

French and Germans are slightly different in red cherry tomato sensory preference

Liked cherry tomatoes that are

Disliked cherry tomatoes that are

Sweeter More Acidic Firmer

More umami

Sweeter
More Acidic
Firmer
More sweet smell

Less red color

More savory smell





We Have A **United Purpose**

- Healthier People and Healthier Planet
- **Consumer Insights**
- Industry Intelligence
- **Product Concepts**
- Successful Collaborations
- Partnerships-Produce For Better Health





Thank you!



Our Movement

Research shows, rather than a prescriptive recommendation to eat a certain amount of fruits and vegetables each day, consumers (particularly Gen Z and Millennials) want actionable, realistic and FUN approaches that make eating fruits and vegetables easy, helping them feel confident, happy and healthy.

That's where PBH's Have A Plant™ movement comes in. It's a way to tap into the emotional connection consumers have to the fruit and vegetable eating experience while inspiring long-term, sustainable behavior change. And it does so with a no-nonsense approach that's simple, understandable, and, importantly for this audience, non-prescriptive.



Join the Movement





Show your support by taking and sharing the Have A Plant™ pledge at fruitsandveggies.org. While you're there, check out the useful resources to equip you with the tools you need to enhance your nutrition knowledge and empower consumers to enjoy more fruits and vegetables every day.

Follow PBH's social channels to keep up to date on all the insights and inspiration. #haveaplant



<u>@fruitsandveggies</u>



@fruits veggies



<u>@fruitsandveggies</u>



Produce for Better Health Foundation



September is National Fruits & Veggies Month™. Take a moment to promote and enjoy all forms of the fruits and veggies that you know and love – fresh, frozen, canned, dried and 100% juice – that taste great and also support your health and happiness!

Learn more at <u>fruitsandveggies.org/NFVM</u>



Join Us Next Time ...



A catalog of PBH's past webinars is available at fruitsandveggies.org/expert-professionals/webinars.

Continuing professional education units (CPEU) are available for live and pre-recorded webinars.

