## PBH

FOUNDATION

# HACKS habits 

## UNPACKING THE RESEARCH

FOR RETAIL, FOODSERVICE $\mathcal{E}$ COMMUNICATION PROFESSIONALS

In partnership with



# WENDY <br> REINHARDT KAPSAK, MS, RDN <br> PRESIDENT \& CEO <br> PRODUCE FOR BETTER HEALTH FOUNDATION 

## MODERATOR \& SPEAKER

## OUR PURPOSE

The Produce for Better Health Foundation (PBH), a 501(c)3, is the only national non-profit organization $100 \%$ dedicated to helping people live happier, healthier lives by eating and enjoying more fruits and vegetables, in every form, each and every day. PBH, along with its strategic partners, will elevate new fruit and vegetable consumption behaviors as a national priority - accelerating growth and serving the public good.

## THE AWARD-WINNING HAVE A PLANT® MOVEMENT REACHES MILLIONS

The award-winning Have A Plant ${ }^{\circledR}$ Movement is a way to inspire lasting behavior change by tapping into the emotional connection consumers have to the fruit and vegetable eating experience.

PBH is an undeniable resource for health $\mathcal{E}$ wellness professionals, given its trusted third-party credibility, breadth of nutrition and behavioral research, and strong consumer, influencer and industry reach.


GOLDEN 1 TRC AWARDS
Promoting excellence in agricultural public relations

## 1 Billion

social media
impressions since the

## 2 Billion

traditional media

## HOUSEKEEPING

1 CPEU available through the Commission on Dietetic Registration (CDR).

You will receive a link to the certificate of attendance, the webinar recording and PDF of the presentation within 48-72 hours.

Type your questions and/or comments into the QEA section located at the bottom of your screen at any time during the webinar.

## THANK YOU TO OUR PBH PARTNER!



## TODAY'S SPEAKERS



Wendy Reinhardt Kapsak, MS, RDN PBH President \& CEO


Annette Maggi, MS, RDN, LD, FAND PBH Retail Specialist


Amy Myrdal Miller, MS, RDN, FAND PBH Culinary \& Foodservice Specialist

## EVIDENCE OF A PERVASIVE \& <br> PERSISTENT CONSUMPTION CRISIS

PBH



The average adult consumes 0.9 cups $^{2}$ of the recommended $11 / 2-21 / 2$ cups/day of fruit. ${ }^{3}$

## Average FRUIT consumption was

 1.0 cups/day in 2003-2004 and 0.9 cups/day in the 2015-2016 survey.| 1.0 |
| :---: | :---: |
| cups/day |$\quad$| 0.9 |
| :---: |
| cups/day |



The average adult consumes 1.6 cups $^{2}$ of the recommended $2-4$ cups/day ${ }^{3}$ of vegetables.

Average VEGETABLE consumption was 1.5 cups/day in 2003-2004 and 1.4 cups/day in the 2015-2016 survey.
\(\left.\begin{array}{|c|c|}\hline 1.5 <br>

cups/day\end{array}\right)\)| 1.4 |
| :---: |
| cups/day |
| $2003-2004$ |

[^0]
## PBH DELIVERS A COMPREHENSIVE \& INNOVATIVE RESEARCH PLATFORM AS WELL AS UNIQUE INSIGHTS.



Food \& Nutrition Scientific Research


Consumption Data \& Behavioral Insights


FRUIT \& VEGETABLE GAP ANALYSIS
Bridging The Disparity Between Federal Spending
\& America's Consumption Crisis

## FULL REPORT

Data Analysis \& Policy Implications

# FRUIT AND VEGETABLE HABITS APPEAR TO BE ERODING 

## Fruit and vegetable eating occasions continue to decline.

This decline is driven by drops in vegetable $\mathcal{E}$ juice eating occasions.


From 2015-2020,
consumption declined by $3 \%$, indicating that the trend is worsening every year.

Close to one-quarter of Americans do not eat any fruit.


Historically "heavy" eaters of fruits and vegetables are eating them less often.
$74 \%$ of people eat FRUIT even less often, 5.8 times/week


95\% of people eat VEGETABLES just once a day, 7.5 times/week


## How to Make Have A Plant ${ }^{\circledR}$ A Habit:

## MAKE IT EASY!

"If you want people to do something, make it easy."

- Richard Thaler

Nobel Prize Winner, 2017

PRODUCE FOR BETTER HEALTH


## Have we made it easy for consumers to ...

See

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## WHAT IS A HABIT?

- Habits are automatic behaviors that we have internalized.
- A habit is not what an action is, but rather how you perform the action.


## INGREDIENTS OF A HABIT:

1. Cue or Consistent Context (time \& place)
2. Behavior (with Repetition)
3. Reward

## HABITS ARE SYSTEMS.

"You do not rise to the level of your goals. You fall to the level of your systems."

- James Clear

Author of "Atomic Habits"


## How are habits formed?

It's behavior (doing), but we need to know a lot about how habits work to help people create them.


## ROUTINE BEHAVIOR

## PBH

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## 2022 PBH HACKS TO HABITS RESEARCH

A Behavioral Research Study to Bolster Fruit \& Vegetable Consumption

A BEHAVIORAL RESEARCH STUDY TO BOLSTER FRUIT \& VEGETABLE CONSUMPTION FRUIT \& VEGETABLE CONSUMPTION
INSIGHTS REPORT


## KEY FINDING \#1:

## Habit opportunities for fruits and vegetables are very different.



## Fruits are considered the easiest of the food groups to eat or consume daily.

Easy or Difficult to Eat Every Day?
\% Respondents


## Vegetables are among the most challenging food groups for consumers to make taste really good.

Easy or Difficult to Make it Taste Really Good?<br>\% Respondents<br>■1=Very Easy $2 ■ 3 ■ 4-5 ■ 6 ■ 7=$ Very Difficult



[^1]Source: PBH Hacks To Habits Study

## Fruits and vegetables face the greatest spoilage and food waste challenges.

Easy or Difficult to Use Before Goes Bad?
\% Respondents
■ $=$ Very Easy $-2 ■ 3 ■ 4 ■ 5 \square 6 ■ 7=$ Very Difficult


## RETAIL INSIGHTS \& ACTIVATIONS

SEPARATE FRUITS FROM VEGETABLES IN PROMOTIONS, COMMUNICATIONS \& EDUCATION.


## Fruit

Promote for convenience occasions breakfast on-the-go, snacks.

Create Pinterest board showing ways to keep handheld fruit visible in-home kitchens. Cross merchandise kitchen storage gadgets to increase program ROI.


## Vegetables

Do short videos on easy ways to prep various veggies.
Add perfectly paired spice packets to fresh cut veggies.
Create produce signage program that indicates prep tips or flavoring options for veggies.
Add parents' classes for feeding kids and educate on ways to increase veggie love!

## FOODSERVICE INSIGHT \& ACTIONS

INSIGHT: Vegetables have a significant taste hurdle.


ACTION: What techniques and ingredients can be used to create appealing aromas, flavors, and textures in vegetables?


Photo Credit: Petrina Tinsley

## KEY FINDING \#2:

## Fruit and vegetable habits are context-specific, automatic behaviors.



# Shopping and consuming fruit automaticity is highest among high- and medium-frequency fruit eaters. Shopping automaticity is greater than consuming automaticity. 

Fruit Calculated Habit Score


QH1-H8 Calculated Habit Score
Base: Fruit Users randomly selected to answer Automaticity QH1-8
*Bold number indicates statistically significant; *Significant to Light Fruit Eaters; **Significant to High/Med Fruit Eaters
Source: PBH Hacks To Habits Study

High- and medium frequency vegetable eaters report higher levels of shopping and consumption automaticity. Shopping is more automatic than consuming.

Vegetable Calculated Habit

Shopping
Automaticity


## Score

\% of Respondents

Consuming
Automaticity


## QH1-H4 Calculated Habit Score

^Low Sample - Use Directionally; 30-75 use directionally; <30 do not release publicly
*Bold number indicates statistically significant; *Significant to Light Vegetable Eater; **Significant to High/Med Vegetable Eater Source: PBH Hacks To Habits Study

## FOODSERVICE INSIGHT \& ACTIONS

INSIGHT: High- and medium-frequency fruit and vegetable eaters demonstrate higher levels of automaticity when it comes to consumption compared to low frequency fruit and vegetable eaters.


ACTION: What creates automaticity in foodservice settings?

- PRINCIPLES: Who or what determines the use of fruits and vegetables in your foodservice operation?
- PRODUCT MIX: Do fruits and vegetables only appear in "healthy" menu items or are they used across all categories on your menu, from "good-for-me" to "indulgent"?
- PORTIONS: Do portions of fruits and vegetables make sense or should they be increased? If plate waste is a concern, should you focus instead on preparation and presentation to increase appeal and intake?
- PROPORTIONS: Can you increase the amount of fruits and vegetables in mixed dishes while decreasing the amount of other ingredients?


## RETAIL INSIGHTS \& ACTIVATIONS

## IDEAS TO CREATE THE CONTEXT:

\#1: Pitch retail buyers on cross-promotion of fruit with breakfast foods and dessert mixes to increase purchase.
\#2: Build a business case for adding pop-ups in e-commerce that tie veggies to common main dish proteins.
\#3: During January, give a daily social suggestion to add fruits or vegetables to family favorite meals such as adding veggies to burgers and sandwiches, shredding carrots or zucchini into jarred pasta sauce, or adding fruit/veg to pizza. Give suggestions that move beyond the standards, such as kale on a Reuben, thin sliced pears on a classic ham sandwich, or grilled zucchini and peppers on a burger.
\#4: Suggest veggie sides as a BOGO in the RTE deli area.
\#5: Add a "search ad" for deli meats that features produce pairing variations, making it easy for shoppers to drop these items into their virtual carts.

## KEY FINDING \#3:

## High- and medium-

 frequency consumers have more fruit and vegetable habits.

## Shift From KNOWING to FEELING and DOING

Lower Impact

Higher Impact

What people KNOW Facts and skills

What people FEEL Emotions and desires

What people DO Routines, plans, impulses, trial and conversations

## Habitual fruit and vegetable consumers find more enjoyment and pride when it comes to preparing and serving fruits and vegetables.

## Knowledge and Feelings About Key Fruit and Vegetable Beliefs and Behaviors \% Respondents Top 3 Box - Agree

| NOTE: High-frequency fruit eaters express the greatest enjoyment, pride and knowledge using fruits and vegetables. | $\begin{gathered} \text { Total } \\ (n=1024) \end{gathered}$ | Fruit Eater |  | Vegetable Eater |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Habit Consumer | Non-Habit Consumer | Habit Consumer | Non-Habit Consumer |
| I know how to select and store fruits and vegetables for the best eating experience possible | 73 | 92* | 70 | 93* | 66 |
| Preparing and cooking meals with fruits and vegetables is something I enjoy doing | 73 | 90* | 66 | 93* | 65 |
| I feel a sense of pride when I feed my family fruits and vegetables at meals and snacks | 72 | 88* | 65 | 92* | 64 |
| Fruits and vegetables are expensive | 50 | 51 | 48 | 57 | 48 |
| It's hard to find vegetables that everyone in my house likes | 36 | 44* | 30 | 38 | 34 |
| It's hard to find fruits that everyone in my house likes | 29 | 37* | 22 | 35 | 26 |
| I don't know how to prepare fruits or vegetables in different ways | 29 | 34 | 27 | 31 | 28 |
| Unless I plan ahead, buying fruits and vegetables isn't something I typically do | 28 | 28 | 27 | 32 | 28 |

QR5 Please tell us how much you agree or disagree with each of the following statements. Seven Point Scale
Base: Fruit and Vegetable Eaters randomly selected for Automaticity QH1-8
*Bold number indicates statistically significant; *Significant to Non-Habit
Source: PBH Hacks To Habits Study

## High- and medium-frequency vegetable eaters both out-eat light-frequency eaters by at least twice the volume.

Cups of Vegetables Consumed per Day
\% of Respondents
<3 Cups ■ 3+ Cups


Total ( $n=1013$ )


High ( $n=111$ )


Medium ( $n=93$ )


[^2]
## RETAIL INSIGHTS \& ACTIVATIONS

## IDEAS TO CREATE HABITS:

\#1: Promote buying a variety of types of fruits and veggies. Suggest shoppers run through the alphabet adding a new one that starts with a different letter each week. Change up the "free apple for kids" program to offer a different fruit or veg each week.
\#2: Create fruit and vegetable bundles in e-commerce that would feed a family of four for a week. Include all forms. Link to recipes on how to use the various items.
\#3: Develop a "Double Up" contest or promotion, encouraging shoppers to double the fruits or vegetables in a recipe. Provide example recipes to give shoppers success!
\#4: Offer a calculator and/or tracker for primary shoppers to know how much fruit/veggies to buy each week.
\#5: In TikTok video clips, show how to use dried, frozen, or canned fruit for consumers’ key needs convenience, taste, affordability, and health.
\#6: Develop a policy at your retailer, where shoppers gain "double points" in rewards programs for fruit and vegetable purchase. Offer employees a higher discount on fruit and vegetable purchases.

## FOODSERVICE INSIGHT \& ACTIONS

INSIGHT: High- and medium-frequency fruit and vegetable eaters rely more on food hacks compared to low frequency fruit eaters.


ACTION: For home cooks, convenience and usage hacks are critically important, but what hacks help drive increased use, ordering, and appeal in foodservice settings?

- Low-frequency consumers say adding vegetables to burgers and sandwiches (32\%) and adding fruits and vegetables to favorite dishes, meals and snacks-such as tacos, pizza, pasta, etc. (32\%)-are powerful hacks.



## KEY FINDING \#4:

## Low-frequency

 consumers can build fruit and vegetable habits from hacks.

# High- and medium frequency fruit eaters rely more on life hacks than light eaters. 

High/Med Fruit EatersLight Fruit EatersLife Hacks Currently Used<br>\% of Respondents


Q.T5 Below are some 'life hacks' for eating more fruit and vegetables. Which of these life hacks do you currently use?
Base: Light Fruit Eater ( $n=644$ ) High/Med Fruit Eater ( $n=347$ )
*Bold number indicates statistically significant to light fruit users Source: PBH Hacks To Habits Study

Digital Hacks
Search out new time-saving fruit and veggie innovations ( $\mathrm{H} / \mathrm{M}=9 \%, \mathrm{~L}=9 \%$ )
Use apps designed to help me track how many fruits and vegetables I'm eating ( $\mathrm{H} / \mathrm{M}=6 \%, \mathrm{~L}=6 \%$ )
Subscribe to emails or social media alerts for fruit and veggie inspiration ( $H / M=6 \%, L=4 \%$ )
Ask a smart home appliance (i.e., Alexa, Echo) for meal or snack ideas using fruits and vegetables ( $H / M=5 \%, 6=9 \%$ )

## Knowledge of hacks increases intent to consume more fruit by 4 percentage points for all fruit eaters.



[^3]
## Knowledge of hacks shows the strongest increase among light eaters to eat more vegetables. <br> Ease of Doubling Vegetable Consumption <br> \% of Respondents Top 3 Box - Agree

```
■1=Very Easy ■ 2 - 3
```



All Levels of Agreement

Q.T1 How easy would it be to double your consumption of the following food categories?
Q.T7 Now that you know about these tips and tricks, how easy do you think it would be to double your or your family's consumption of the following food categories? Base: High/Med Vegetable Eaters=204; Light Vegetable Eaters=809
Seven Point Scale: $1=$ Very Easy $7=$ Very Difficult
No statistical significance reported
Source: PBH Hacks To Habits Study

## FOODSERVICE INSIGHT \& ACTIONS

INSIGHT: Low frequency consumers are more likely to agree that it's hard to find vegetables that everyone in my house likes.


ACTION: What can foodservice operators do to provide a greater variety of vegetable options to ensure all family members can find a vegetable they like or love?


## RETAIL INSIGHTS \& ACTIVATIONS

## IDEAS TO LEVERAGE HACKS:

\#1: When developing recipes or doing prep demos/videos, show how different forms or a fruit or vegetable can be used in a recipe.
\#2: Each week feature a fruit or vegetable, showcasing three different ways to prepare it, three different places in your stores to find it, and three different foods with which to pair it.
\#3: Offer a refrigerator make-over for your shoppers, stressing fruits and veggies to keep in their respective drawers, tips for keeping produce fresh longer, and how to prep these foods in advance and store them attractively in the fridge so they are the first thing household members grab when they open the door. Showcase storage items available through your retailer as a way to increase the ROI of this program.
\#4: Offer a kids' cooking class on different ways to make the same vegetable (raw, steamed, roasted, etc). Do a taste test as a part of the program, having kids rate what was their favorite version. Provide follow-up feedback to parents with links to shoppable recipes with veggies prepared that way and meals that tie well to these veg options.

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INSIGHTS REPORT


# PBH QUARTERLY CONTENT CAMPAIGNS BRING THE HAVE A PLANT ${ }^{\circledR}$ MOVEMENT TO LIFE! 

Inspire \& Unify Messaging Through Influencer Toolkits


PLANT-ENTIONS


FOOD ROOTED IN A BETTER MOOD®


CELEBRATING THE ROOTS OF OUR FOOD


FOOD ROOTED IN FEEL-GOOD FLAVOR

## Looking For Additional FREF Continuing Professional Education Opportunities?

## fruitsandveggies.org/expert-professionals/webinars

Visit PBH's on-demand catalog of webinars on various fruit and vegetable topics including:

- Power Pairings: Upgrading Snacks With California Strawberries E California Walnuts
- The Impact Of Incentives \& Produce Prescriptions On Fruit \& Vegetable Purchase \& Consumption
- Breeding, Feeding \& Leading: Innovations That Increase Food Security \& Produce Consumption
- And Many More!



## HELP SUPPORT FRUIT \& VEGGIE CONSUMPTION!

If you enjoyed today's Health \& Wellness webinar and would like to support our overall mission of increasing fruit and vegetable consumption, we encourage you to make a tax-deductible donation today.

As a 501(c)3 non-profit organization, your donation helps us deliver programing, including our monthly health and wellness webinars, actionable research, future-focused education, a comprehensive digital ecosystem, and inspirational resources that helps millions discover the joy of eating fruit and vegetables each and every day. TOGETHER - with your support - we are creating happier, healthier lives!

To donate, add the Donations app to Zoom: https://pldg.to/RiLcYw
Or donate with your phone: Text HAVEAPLANT to 707070 (US only)

## THANK YOU <br> WE'RE GLAD YOU’RE WITH US!

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We live at the center of produce, partnership and passion.


[^0]:    REFERENCES

    1. Lee-Kwan SH, Moore LV, Blanck HM, Harris DM, Galuska D. Disparities in State-Specific Adult Fruit and Vegetable Consumption - United States, 2015. Morb Mortal Wkly Rep. 2017;66:1241-1247.
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[^1]:    Q.E4 If you wanted to serve [INSERT FOOD TYPE], how easy, or difficult would it be for you to make it taste really good?

[^2]:    QC7 How many cups of vegetables would you say you eat in a typical day?
    Base: Vegetable Eaters ( $n=1013$ )
    *Bold indicates statistically significant; *Significant to light; **Significant to high and medium
    Source: PBH Hacks To Habits Study

[^3]:    Q.T1 How easy would it be to double your consumption of the following food categories?
    Q.T7 Now that you know about these tips and tricks, how easy do you think it would be to double your or your family's consumption of the following food categories? Base: High/Med Fruit eaters=348; Light Fruit eaters=647
    Seven Point Scale: 1= Very Easy 7= Very Difficult
    *Bold number indicates statistically significant to light fruit eaters
    Source: PBH Hacks To Habits Study

