

### MAKING HEALTHFUL EATING BEHAVIORS STICK: Using Consumer Insights to Identify What Works

#### **BEHAVIOR CHANGE CONSUMER PROFILES**



Audio Information: Dial-In: 800-658-3095 Access code: 964856914#

### International Food Information Council Foundation

### Mission:

*To effectively communicate science-based information on health, nutrition, and food safety for the public good.* 

Primarily supported by the broad-based food, beverage and agricultural industries.

www.foodinsight.org

### Housekeeping

#### Dial-In Information *NOTE: All lines are force-muted.* Toll free number: **800-658-3095** Passcode: **964856914**

International number: **001 (240) 724-6048** 

#### Got Questions? Please email <a href="mailto:FOODANDHEALTH@IFIC.ORG">FOODANDHEALTH@IFIC.ORG</a>

We will address questions at the end of each section throughout the webcast.

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All information, including the full Behavior Change Profiles report and social media resources, can be found at:

http://www.foodinsight.org/BehaviorChangeProfiles

- Quiz
- Blog Series
- Infographic

### Today's Team of Speakers



Marianne Smith Edge, MS, RD, LD, FADA Senior Vice President, Nutrition and Food Safety IFIC Foundation



Jason Pelzel, MPH, RD Program Manager, Health and Wellness IFIC Foundation



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### Learning Objectives

- 1. Distinguish consumer food- and health- related beliefs and behaviors based on stages of behavior change
- 2. Describe strategies to empower consumers to transition from precontemplation through the subsequent stages of change
- 3. Explain the importance for public health to engage behavioral science expertise to enhance the effectiveness of food and health interventions

#### **Continuing Education**

- **1.0 CDR Continuing Professional Education** credit will be offered for those Registered Dietitian Nutritionists (RDNs) and Dietetic Technicians Registered (DTRs) who pre-register to view and participate in the LIVE Webcast.
- 1.0 NBPHE CPH Continuing Education Credit will be offered for those Certified Public Health Professionals who pre-register to view and participate in the LIVE Webcast.
  - An email will be sent one hour after the completion of this webcast with a link to download the certificate. CPEU is only available for those pre-registered for the live webcast today.

- This report presents the results of an online survey of 1,005 Americans ages 18 to 80.
- Many of the questions have been asked in prior Food and Health Surveys, allowing for trend analysis. Some new topics were included in the questionnaire also.
- Fielding took place from March 26 to April 7, 2014.
- The duration of the survey was 28 minutes, on average.
- The results were weighted to ensure that they are reflective of the American population ages 18 to 80, as seen in the 2013 Current Population Survey. Specifically, they were weighted by age, education, gender, race/ethnicity, and region.
- The survey was conducted by Greenwald & Associates, using Research Now's consumer panel.

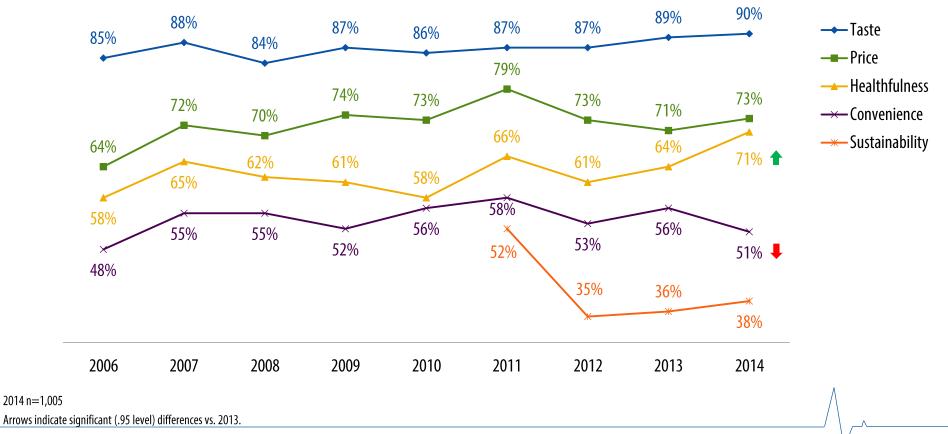
Note: Percentages may not add to 100% or to totals shown due to rounding.

### Key Findings

- Healthfulness is increasingly becoming more important in Americans' food and beverage purchasing decisions.
- There is evidence consumers are taking more steps to improve the healthfulness of their diet but the steps may differ based on their individual perception of the term.
- Americans are taking small steps to improve both diet and physical activity, showing the concept of energy balance is beginning to register.
- Perceived gaps exist between what consumers know and their behavior.
- Americans overwhelmingly view health professionals as the most trusted sources on nutrition, physical activity, and weight loss.

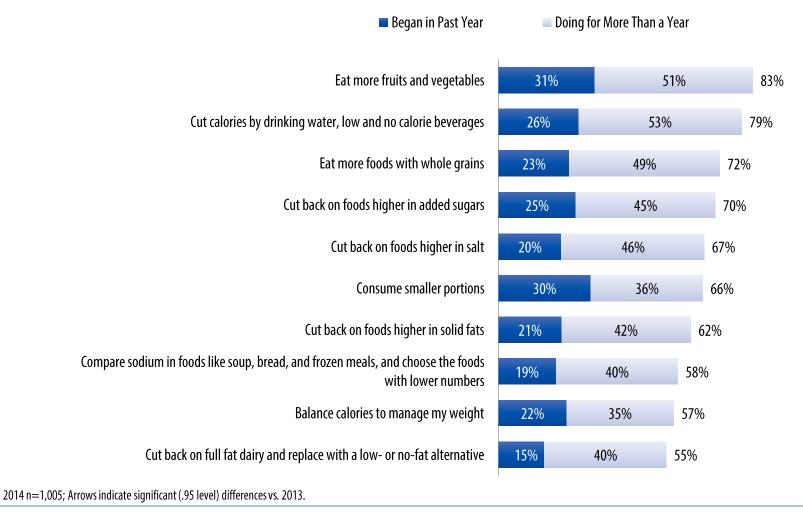
#### Taste, price, and healthfulness continue to drive food selection.

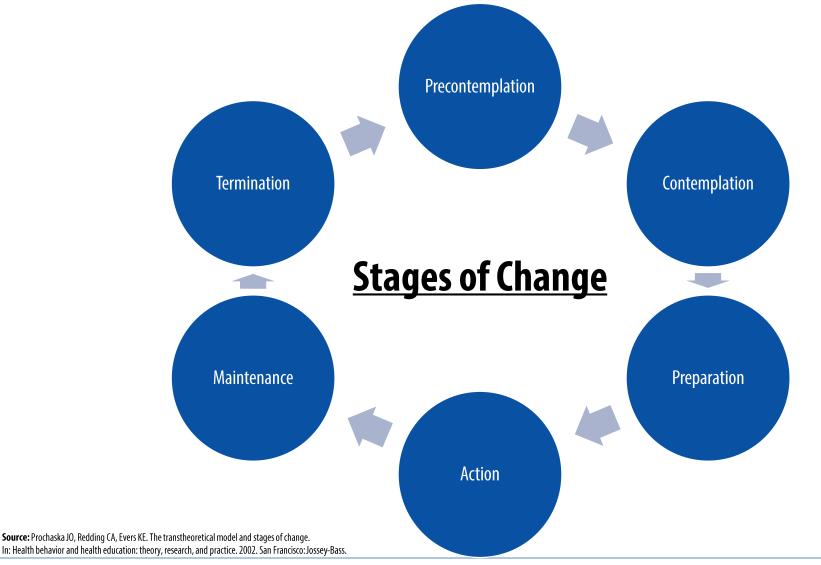
How much of an impact do the following have on your decision to buy foods and beverages? (% Rating 4 to 5 on 5-point scale, from *No Impact* to *A Great Impact*)

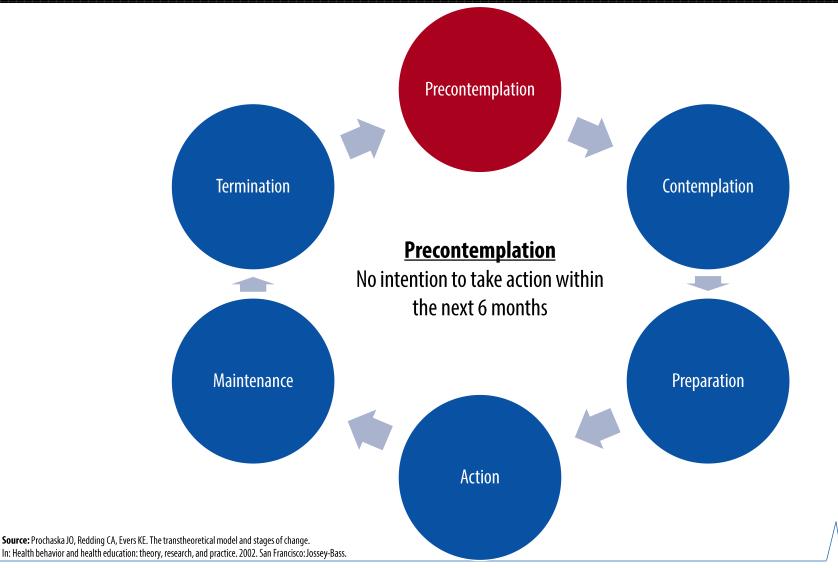


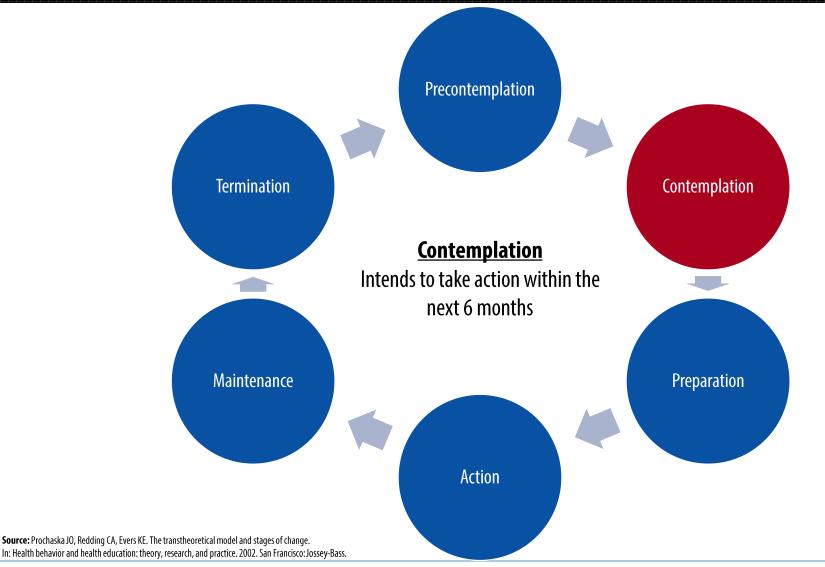
## More than four out of five Americans have made an effort to eat more fruits and vegetables. The least popular action is to cut back on full fat dairy.

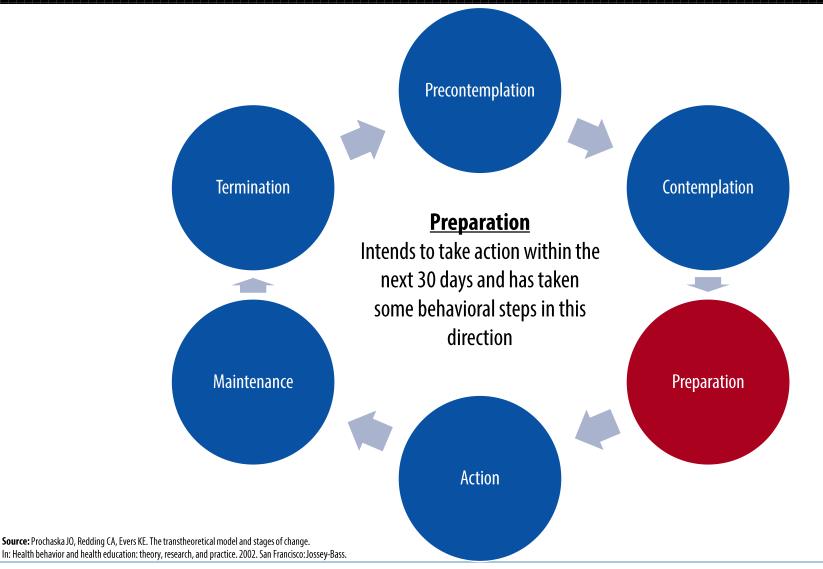
#### Over the past year, which of the following, if any, have you made an effort to do?

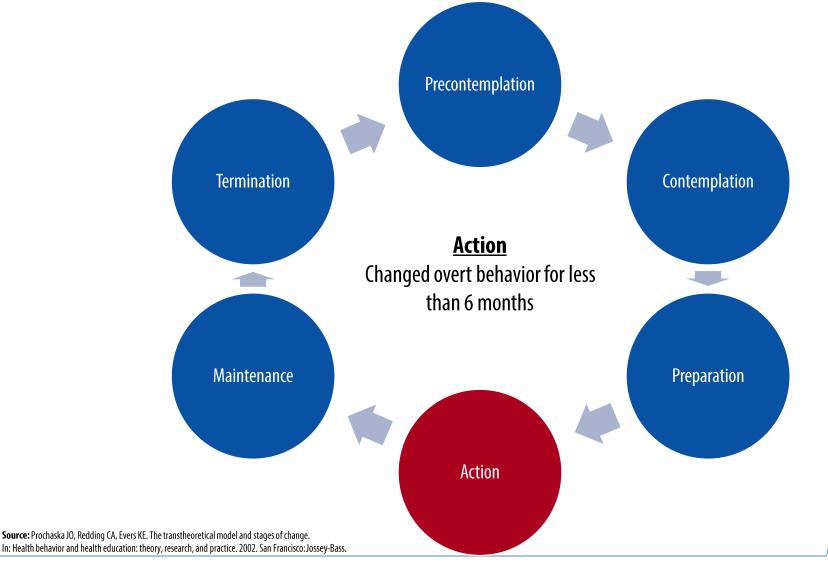


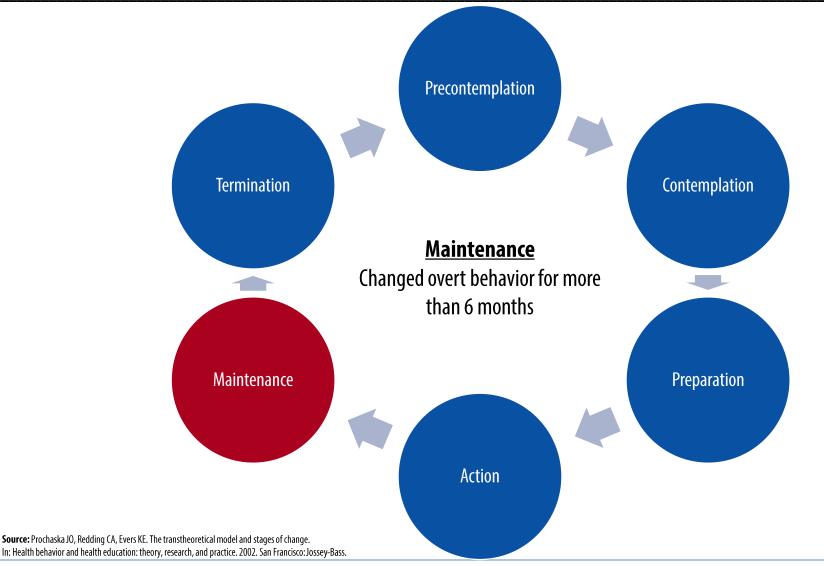


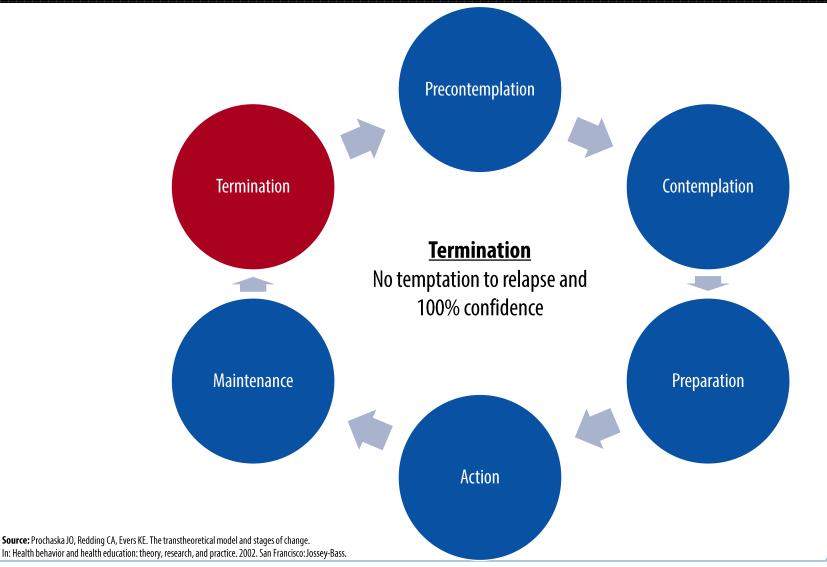






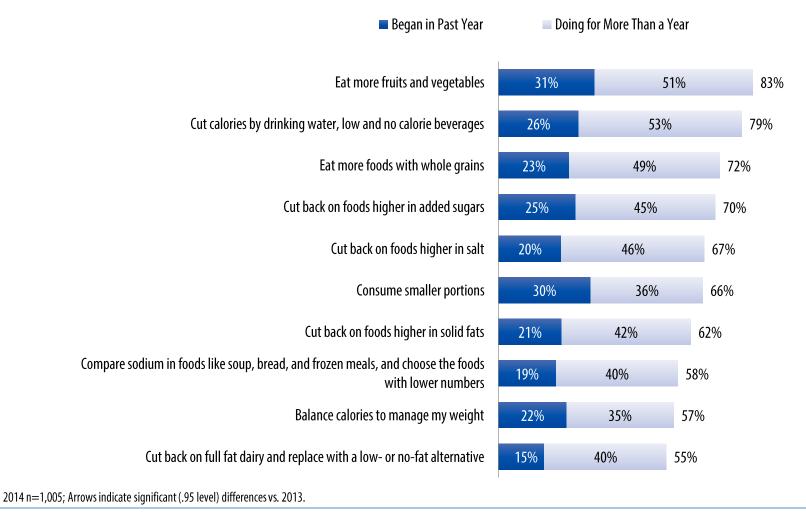






#### Categorization of sample by stages based on dietary behavior changes

#### Over the past year, which of the following, if any, have you made an effort to do?



### **Criteria for Stages of Behavior Change**

#### **Pre-contemplation**

• Did not report making any behavior changes in the past year or previously and have not given any thought to the healthfulness of the foods and beverages they consume

#### Contemplation

• Did not report making any behavior changes in the past year or previously, but have given at least a little thought to the healthfulness of the foods and beverages they consume

#### Action

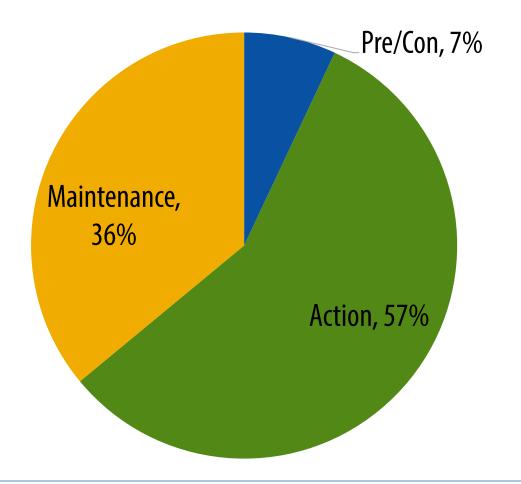
• Made at least one behavior change within the past year

#### Maintenance

• Did not report making any new behavior changes, but have sustained behavior changes for more than a year

# More than half of Americans are taking actions to improve the healthfulness of their diet.

Sample Distribution Across Stages of Behavior Change



### **Complete Demographics**

Age	Pre/Con	Action	Maintenance	Gender	Pre/Con	Action	Maintenance
18 to 34 years old	44%	34%	24%	Male	68%	45%	49%
35 to 49 years old	29%	26%	26%	Female	32%	55%	51%
50 to 64 years old	21%	26%	28%				
65 to 80 years old	6%	14%	22%				
Education				Children Under 18 in Household			
Less than high school	18%	4%	2%	0 to 2 years old	8%	8%	3%
Graduated high school	39%	37%	35%	3 to 6 years old	<b>9</b> %	13%	6%
Some college (no degree)	18%	20%	16%	7 to 12 years old	17%	12%	7%
Associates degree or technical or vocational school	12%	<b>9</b> %	14%	13 to 17 years old	16%	14%	10%
Bachelor's degree	3%	20%	21%	There are no children under 18 in my household	54%	67%	79%
Graduate/Professional work or degree	10%	<b>9</b> %	11%	Prefer not to say	12%	2%	1%
Race/Ethnicity				Marital Status			
White (Non-Hispanic)	55%	68%	71%	Married	43%	57%	<b>59</b> %
Hispanic/Latino/Spanish descent	25%	14%	16%	Single	38%	21%	22%
Black or African American	15%	17%	10%	Divorced	8%	9%	8%
Asian or Pacific Islander	8%	6%	6%	Living with partner	3%	<b>9</b> %	6%
American Indian or Alaskan Native	1%	1%	<.5%	Widowed	0%	3%	4%
Native Hawaiian	1%	1%	<.5%	Other	0%	<.5%	0%
Other	1%	1%	1%	Prefer not to say	7%	1%	1%

### **Complete Demographics**

Region	Pre/Con	Action	Maintenance	Medical Conditions	Pre/Con	Action	Maintenance
Northeast	27%	18%	16%	High blood pressure	10%	22%	24%
Midwest	21%	21%	21%	High cholesterol	14%	18%	18%
South	24%	38%	39%	Heart disease	1%	3%	5%
West	28%	23%	23%	Diabetes	3%	7%	7%
Household Income				Overweight/obesity	2%	8%	7%
Less than \$35,000	19%	16%	12%	Stress/anxiety/depression	10%	12%	6%
\$35,000 to less than \$50,000	18%	16%	18%	Osteoporosis	1%	1%	2%
\$50,000 to less than \$75,000	10%	23%	18%	Cancer	0%	1%	3%
\$75,000 to less than \$100,000	8%	14%	18%	AD/HD	2%	1%	<.5%
\$100,000 or more	24%	18%	20%	Stroke	0%	1%	<.5%
Don't know	10%	1%	1%	None of the above	70%	57%	57%
Prefer not to answer	11%	11%	13%				
BMI Score							
Low/Normal	31%	29%	36%				
Overweight	28%	32%	37%	-			
Obese	25%	31%	23%	-			
No Answer	16%	8%	3%	-			

### **Demographic Differences**

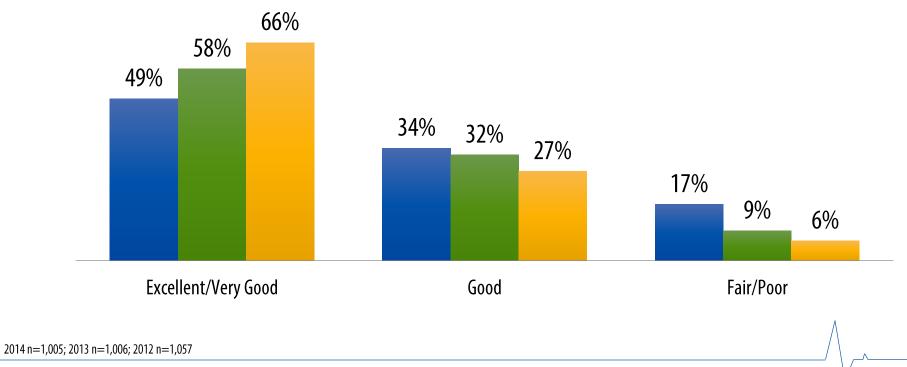
Age	Pre/Con	Action	Maintenance	Gender	Pre/Con	Action	Maintenance
18 to 34 years old	44%	<b>34</b> %	24%	Male	<b>68</b> %	45%	49%
65 to 80 years old	<mark>6</mark> %	14%	22%	Female	32%	55%	51%
Education				Marital Status			
Less than high school	<b>18</b> %	4%	2%	Single, never married	<b>38</b> %	21%	22%
Bachelor's degree	3%	<b>20</b> %	21%				
BMI Score				Children Under 18 in Household			
Low/Normal	31%	29%	36%	There are no children under 18 in my household	54%	67%	<b>79</b> %
Overweight	28%	32%	37%				
Obese	25%	31%	23%				
No Answer	16%	8%	3%				

2014 n=1,005 Significant (.95 level) differences between age groups are shown with green/red font. Percentages in red are significantly lower than the percentage in green.

### Two thirds of Maintenance consumers describe their health as "Excellent" or "Very good."

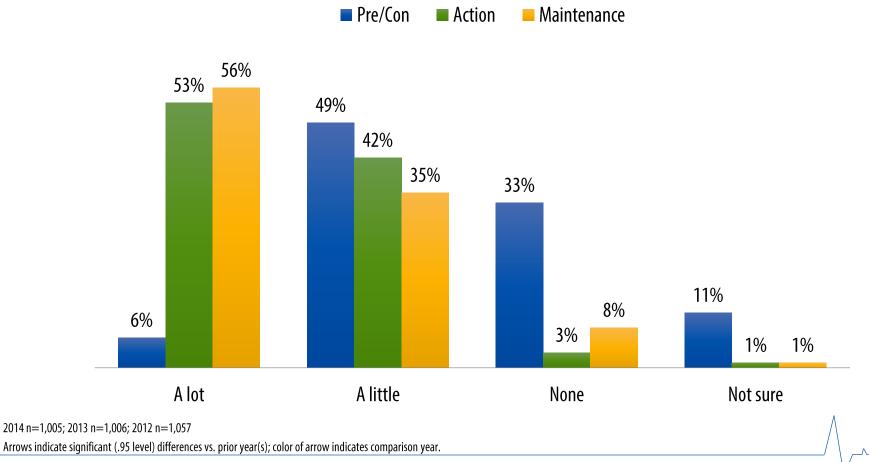
How would you describe your own health in general?

■ Pre/Con ■ Action ■ Maintenance



Action and Maintenance are more likely to have given a lot thought to the healthfulness of foods and beverages, but over half of Pre/Con have given at least a little thought.

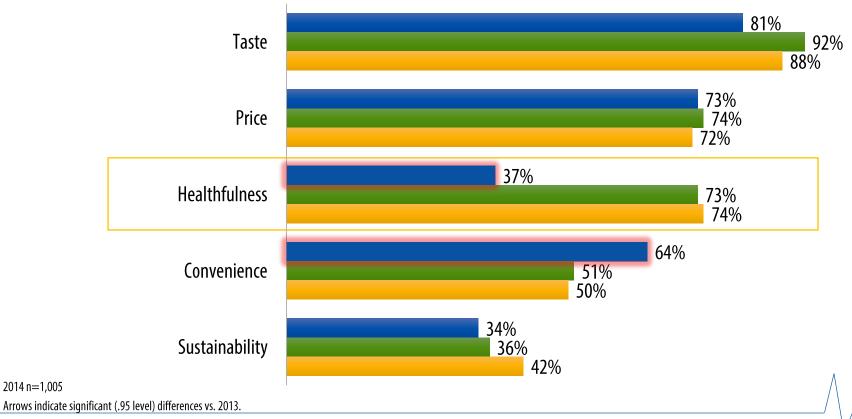
Over the past year, how much thought have you given to the healthfulness of the foods and beverages you consume?



Healthfulness is nearly even with price in terms of its impact on food and beverage purchasing for those in Action and Maintenance. Convenience has a greater impact than healthfulness for those in Pre/Con.

> How much of an impact do the following have on your decision to buy foods and beverages? (% Rating 4 to 5 on 5-point scale, from *No Impact* to *A Great Impact*)

> > Pre/Con Action Maintenance

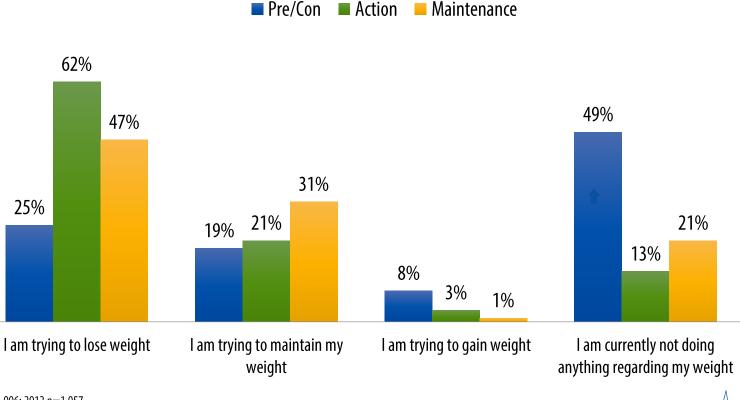


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2014 n = 1.005

Weight loss is a significant motivator for behavior change among those in the Action group. Conversely, nearly half of Pre/Con consumers are not doing anything regarding their weight.

Which of the following best describes what you are currently doing regarding your weight?



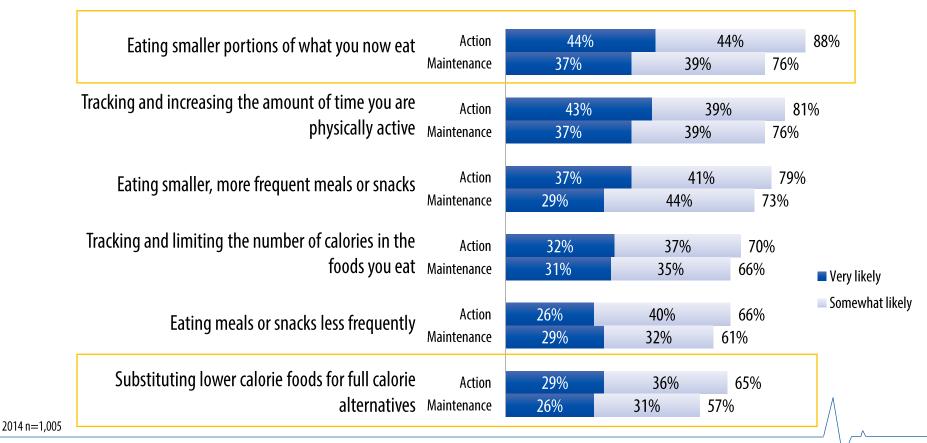
2014 n=1,005; 2013 n=1,006; 2012 n=1,057

Arrows indicate significant (.95 level) differences vs. prior year(s); color of arrow indicates comparison year.

### The Action group is significantly more likely to eat smaller portions of what they currently eat and substitute lower calorie foods for full calorie alternatives than the Maintenance group.

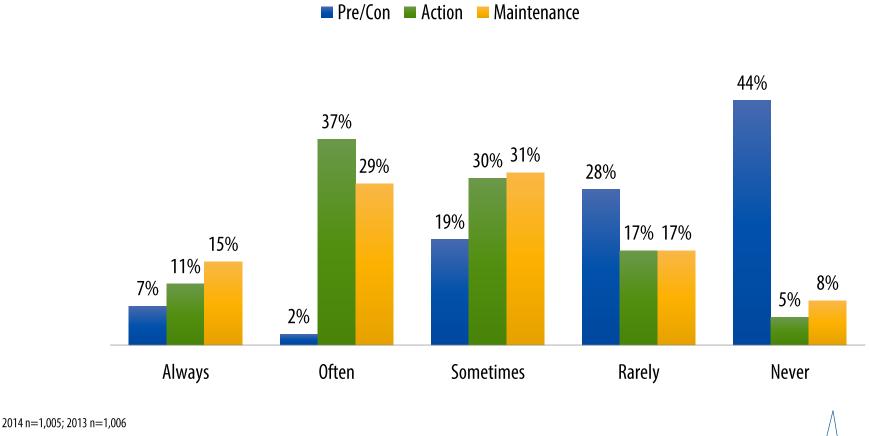
How likely do you think you would be to use or continue using each of the following methods of weight management in the next year?

(FILTER: Trying to Lose or Maintain Weight)



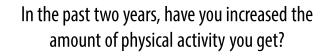
Calories are top of mind for consumers in Action and Maintenance, with at least three out of four thinking about them sometimes.

How often do you think about the number of calories you consume?

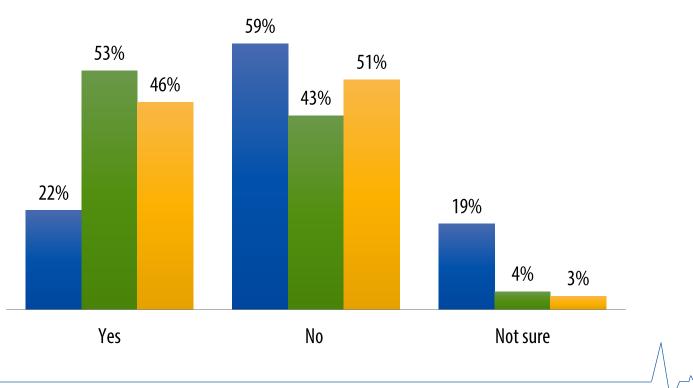


Arrows indicate significant (.95 level) differences vs. 2013.

## Those who have made changes to their diet are also more likely to have increased their physical activity.



Pre/Con Action Maintenance

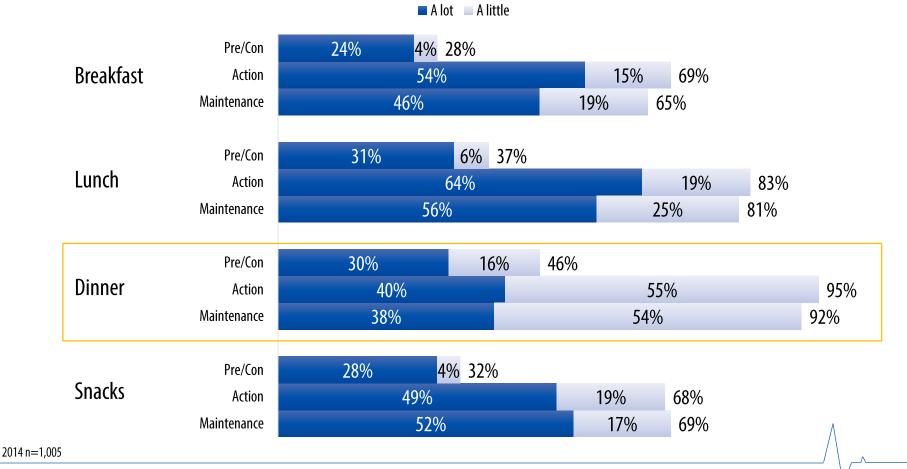


2014 n=1,005

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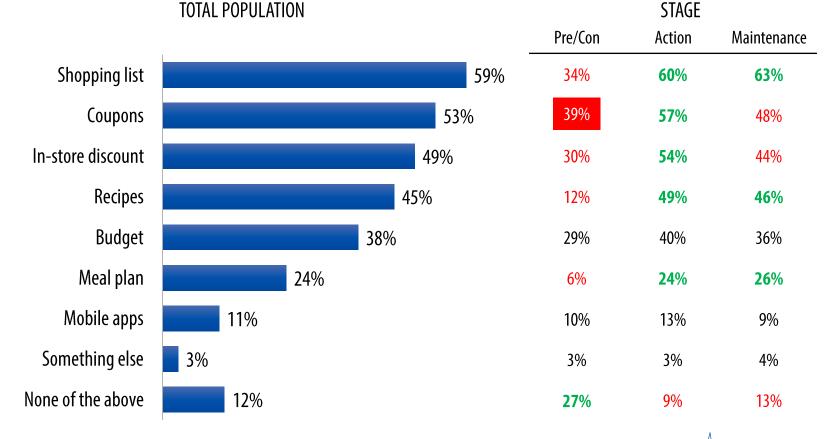
# All groups devote the most planning to dinner. Twice as many consumers in Action and Maintenance plan for each meal as in Pre/Con.

### How much thought, if any, would you say you typically devote to planning the following?



Consumers in Action are more likely to utilize a number of different tools to assist their behavior change efforts, including shopping lists, coupons, in-store discounts, and recipes.

Which of the following, if any, do you use on a regular basis specifically in order to help you plan what you will eat and drink? *(Select all that apply.)* 



2014 n=1,005

Significant (.95 level) differences between age groups are shown with green/red font. Percentages in red are significantly lower than the percentage in green.

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## One out of five in Maintenance regularly use nutrition information when eating out. Half in Action and Maintenance use it at least sometimes.

How, if at all, have you used nutrition information (like calorie counts) when eating out at restaurants?

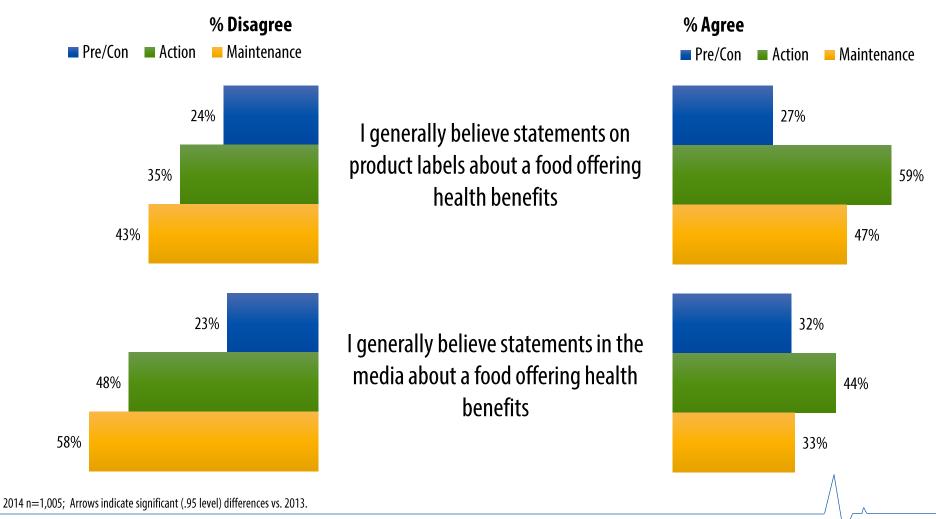
TOTAL POPUL		STAGE				
			Pre/Con	Action	Maintenance	
l will not eat something when eating out without first checking the nutritional information	2%		3%	2%	4%	
l will regularly use nutrition information to decide what to have when eating out	13%		7%	11%	17%	
l will sometimes use nutrition information to decide what to have when eating out			35% 1 <mark>3%</mark>	<b>40</b> %	33%	
I have noticed nutrition information before, but haven't paid any attention to it		23%	23%	24%	21%	
I have not noticed or seen any nutrition information when eating out at restaurants		26%	53%	23%	26%	
n=1.005						

2014 n=1,005

Significant (.95 level) differences between age groups are shown with green/red font. Percentages in red are significantly lower than the percentage in green.

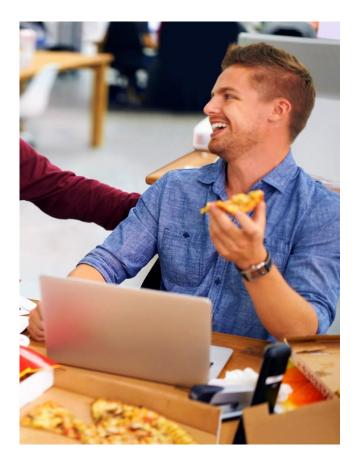
# The Action group is more likely to believe in statements on product labels and in the media about a food offering health benefits.

To what extent do you agree or disagree with the following statements?



### Summary: Precontemplation/Contemplation

- 7% of population
- Younger, on average
- Higher rate of less than high school education
- Higher rate of males
- More likely to be single
- Less likely to be thinking about the healthfulness of their food, and other issues related to food, nutrition, and physical activity
- More likely to be not doing anything regarding their weight
- Less likely to think about calories
- Less likely to plan for all meal occasions or use planning tools
- Less likely to have increased physical activity in the past two years
- Less likely to use nutrition information when eating out
- Impacted by convenience more than healthfulness in their decision to purchase foods and beverages



- 57% of population
- More females and college graduates than Pre/Con
- More Millennials and obese than Maintenance
- Most likely to be trying to lose weight
- Most likely to use coupons and in-store discounts when shopping
- More likely to eat smaller portions of what they currently eat and substitute lower calorie for full calorie alternatives than Maintenance, among those trying to lose or maintain weight
- Most likely to believe in statements in the media and on product labels about foods offering health benefits
- Thoughtful about other issues related to food, nutrition, and physical activity
- Thoughtful about calories
- Plans ahead for meals and snacks
- Likely to have increased physical activity in the past two years
- Likely to use nutrition information when eating out
- Highly influenced by the healthfulness of their food



### Summary: Maintenance

- 36% of population
- Older, on average
- Less likely to have children in the household
- Most likely to describe health as excellent or very good
- Most likely to disagree that they believe in statements in the media and on product labels about foods offering health benefits
- Most likely to consider specific nutrients or ingredients when purchasing foods and beverages
- Thoughtful about other issues related to food, nutrition, and physical activity
- Thoughtful about calories
- Plans ahead for meals and snacks
- Likely to have increased physical activity in the past two years
- Likely to use nutrition information when eating out
- Highly influenced by the healthfulness of their food



### Why is this important?

 This information sets the foundation for more tailored interventions and incorporating behavioral science approaches into individual counseling settings, as well as public health initiatives and community program planning.

### **Got Questions?**

#### Please email <u>FOODANDHEALTH@IFIC.ORG</u> OR Join the Twitter conversation! Follow @FoodInsight and use the hashtag #FoodInsight.



International Food Information Council Foundation 2014 Food & Health Survey

#### Transtheoretical Model & Stages of Change (Prochaska & DiClemente)



### Guiding Patients on the Path to Change

#### Transtheoretical Model



- Used for many health behaviors.
- Blueprint for guiding self-change.
- Describes a natural progression from not thinking about change to maintaining success.
- Guiding premise: 'Pushing' people beyond their readiness leads to 'push-back' and failure.



- 1: Precontemplation (Not Ready for Change).
- 2: Contemplation (Thinking about Change).
- 3: Preparation (Preparing for Action).
- 4: Action (Taking Action).
- 5: Maintenance (Maintaining the Target Behavior).

#### Precontemplation



#### **Patient:**

I Won't (denial) or I Can't (don't see it as possible).

#### **Healthcare Provider:**

Show empathy, understanding, and respect their intent <u>not to change</u> in non-judgmental way; use reflection

Won't: "I hear you saying you are not ready to make a decision to change this right now; what else might I help with today?"

Can't: "Correct me if I am wrong, but I get the feeling you don't think you will be successful; can you tell me more about that?"

#### Contemplation



#### Patient:

- I May (Considering taking action within next 6 months). They are aware of the potential benefits & experience some dissatisfaction with status quo.
- The patient often expresses ambivalence re: change.
  - difficulty is highlighted in mind and solutions minimized thus the patient can remain stuck here.

#### **Provider:**

Explore the ambivalence, address past failure/success; anticipate future possible success; weigh pros and cons in fact-based, non-persuading way (help them develop a vision for change).

#### Preparation



#### **Patient:**

- I Will (Ambivalence is overcome; planning to take action within a month).
- Patient has identified a strong motivator; knows the barriers; has identified possible solutions.
- Ready to try out solutions and problem solve performance issues ongoing as they arise.

#### **Provider:**

Instruct in realistic goal setting, barrier identification, problem solving, resource identification etc.

Action



#### **Patient:**

- I Am (have implemented a new behavior consistently).
- Moving towards a specific 'goal level' of behavior.
- Practicing new behaviors, establishing new behaviors, refining skill-sets.

#### **Provider:**

- Managing setbacks is the **KEY** at this stage to stop backslide.
- Identification of triggers, problem solving slips, cognitive restructuring etc. are essential.

#### Maintenance



#### Patient:

- I Still Am (new behavior has become a 'habit' and is seemingly done 'automatically').
- Very confident in ability to persist with new behavior. Deal with lapses relatively expeditiously.

#### **Provider:**

Directs them back to established skill sets.

Lapses are considered a normal part of change process.

#### The Process of change



### COGNITIVE

- Getting information: Identifying benefits.
- Being motivated emotionally: Taking info to heart.
- Seeing how behavior impacts others.
- Implementing your self-image: Congruence between how you see yourself vs. how you act.
- Establishing social norms: Connecting with likeminded people.



#### BEHAVIORAL

- Making a commitment: Writing down your plan.
- Using cues: Behavioral strategies to cue you to act.
- Substitution: Switch out for less damaging version.
- Social support: Enlisting buy-in of others.
- Rewards: Both personal & impact on others.

### Decisional Balance (Janis & Mann, 1977)



Pros ...

- Self gain
- Gains for others
- Approval of others
- Self-approval

Cons ...

Loss for self
Losses for others
Disapproval of others
Self-disapproval

If Pros outweigh Cons humans are motivated to act.

#### Motivational Interviewing



### The Dance of Change



- Technique originally used by Miller (1983) for problem drinkers; based in transtheoretical model.
- Has evolved across multiple health behaviors and been tested empirically (evidence-based practice).
- Focusses on exploring and resolving ambivalence and the motivational processes that facilitate change.
- Not like 'coercive' or externally driven change approaches as it tries to support change in a manner congruent with the person's current values and concerns promotes Self-efficacy.

What is Motivational Interviewing?



#### Respectful rapport-building.

- 1. MI is a conversation about change.
- 2. MI is collaborative and 'patient-centered'
- 3. MI is evocative as it seeks to call forward a person's personal motivation and commitment.
- 4. Emphasizes autonomy of the patient.



- 1. Collaboration (over confrontation)
  - Partnership grounded in the patient point of view.
  - Deemphasizes the 'expert' role of the provider.
  - Builds trust, empowers the patient and helps patient to see that the provider understands where they are coming from.



#### 2. Evoking (rather than imposing ideas)

- No matter what reasons the provider has to convince the patient what they 'should' do; lasting change is most likely to happen if the patient finds their own reasons for changing.
- Provider's job is to 'draw out' these motivations and these skills for change (from the patient) and NOT to tell them what to do or how to do it.



- 3. Autonomy (vs. Authority)
  - True power of change is with the patient and it is ultimately their responsibility to follow through.
  - There is no "correct" way to change or path to success.
  - Encourage patient to create a list of change options then decide which path to take.



Express empathy, support self-efficacy, develop discrepancy

- Help patient arrive at a perspective that highlights a mismatch between where they are and where they want to be.
- Challenge the patient to identify the 'best' path for them to get there.

#### Roll with Resistance

- Resistance occurs when the client senses their solutions or point of view do not match those of the provider.
- Providers avoid triggering resistance through non-confronting style; but when they
  do, they work to deescalate it thus avoiding a power struggle.
- MI is often described as a 'dance' as opposed to 'wrestling match.'

#### How to get them there?



- **Open ended questions:** Invite elaboration and thinking more deeply; assist patient in exploring reasons for, and possibility of change.
  - Open: What concerns you about your current behavior and what if any changes do you see yourself making?
  - Closed: Do you worry that if you keep eating that way your diabetes will get worse?
- Affirmations: Recognize patient strengths; build rapport; help patient focus on positive, solution-focused viewpoint; reframe from negative; support self-efficacy.
  - Patient "I have tried that a bunch of times times"
  - Provider "Wow I am always impressed by your perseverance; what do you think keeps getting in the way?"



**Reflective listening:** assists with empathy expression, creates impression of understanding and can highlight areas you feel are important for the patient.

#### <u>Simple</u>

- Patient: I don't have time to exercise, nobody does.
- Provider: I hear you saying you don't have time to spare for exercise and that other people share that problem.
- Patient: That's right, well except my friend Kaye who runs every day. I don't know HOW she does it!
- Provider: (Empathy reflection) It sounds like you are a little torn; on the one hand you cannot see how anyone finds time to run, including yourself, but you are a little curious about how Kaye does it...?

#### Amplified

- Patient: I don't have time to exercise, nobody does.
- Provider: I hear you saying you don't know **ANYONE** who has time to exercise and it is **impossible** for you to find any time?
- Patient: It's not impossible; don't put words in my mouth. I am just saying it is hard to find time. I have exercised before; so maybe I could find time if I put my mind to it.
- Provider (empathy reflection): It sounds like you are seeing realistic barriers but also feel hopeful that you can find the time to exercise if you prioritized it?

#### Double-sided

• Provider: I hear you saying you don't have time to exercise, but I have also heard you say that when you make time you feel better, less guilty and more energized.

#### Shifted Focus

• Since you don't have time to exercise, lets talk about the stress management exercises you were going to do.



# Focus on the whole person and Broader Well-Being.

### Health Commitment Matrix<sub>©</sub>





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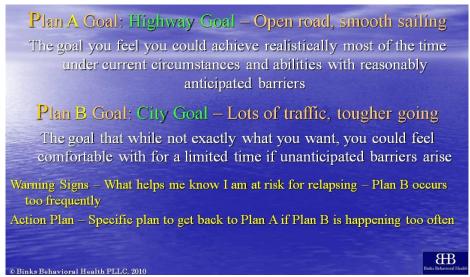
Materials available on DrBinks.com – Self Help



**1. Barriers & Strengths** – Think about what strengths and barriers exist in each matrix element. Set goals that Reduce Barriers – Add strengths.

**2. Realistic Planning** – This simplified approach to goal setting (below) allows you to have a main plan (Plan A) and plan for tough times and setbacks (Plan B) all in one model.

**3. Motivators & Milestones -** We need to grab all the motivators we can and use them to our best advantage! Upcoming events, reductions on the scale, changes in health indicators - what motivates you? This week, next month, next year... combining short - PLUS long- term goals adds to ongoing success.





**4. Self-Awareness -** We are so busy and so distracted by the way we choose to live our lives these days that being present in the moment appears to have gone. For health we need pause and understand what we truly need emotionally, intellectually and spiritually.

• Pause and ask "what do I really need right now" before grabbing the cigarette, the donut, skipping an exercise session rather than the quick fix.

**5. Expanded Horizons** – How do you spend your time? Hobbies, entertainment, sports etc. What ruts are you in? How can we shake things up and make your life more exciting, more interesting. How can you explore new things and think outside the proverbial box.

**6- Envisioning My Matrix**<sup>©</sup> - In this step you step back a moment and reflect on all the things you have identified through your use of the Health Commitment Matrix<sup>©</sup> exercise. Reflect on what you have learned about yourself, your life, your strengths and barriers. Here is where you bring it all together and decide; 'Who do I hope to be.' You will see how your goals may be fine-tuned and interwoven to create a smooth plan for living your life comfortably, productively and happily as a "healthy" person.



### **Got Questions?**

#### Please email <u>FOODANDHEALTH@IFIC.ORG</u> OR Join the Twitter conversation! Follow @FoodInsight and use the hashtag #FoodInsight.

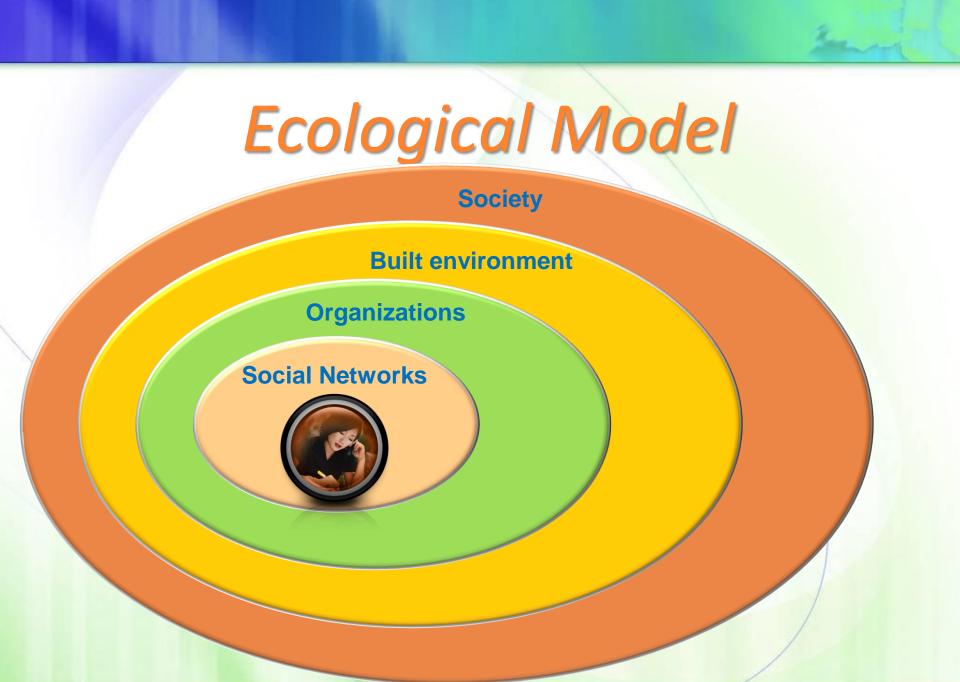


International Food Information Council Foundation 2014 Food & Health Survey

## Making Healthful Behaviors Stick Advancing Behavior Change in Public Health

Carol Byrd-Bredbenner, PhD, RD, FAND

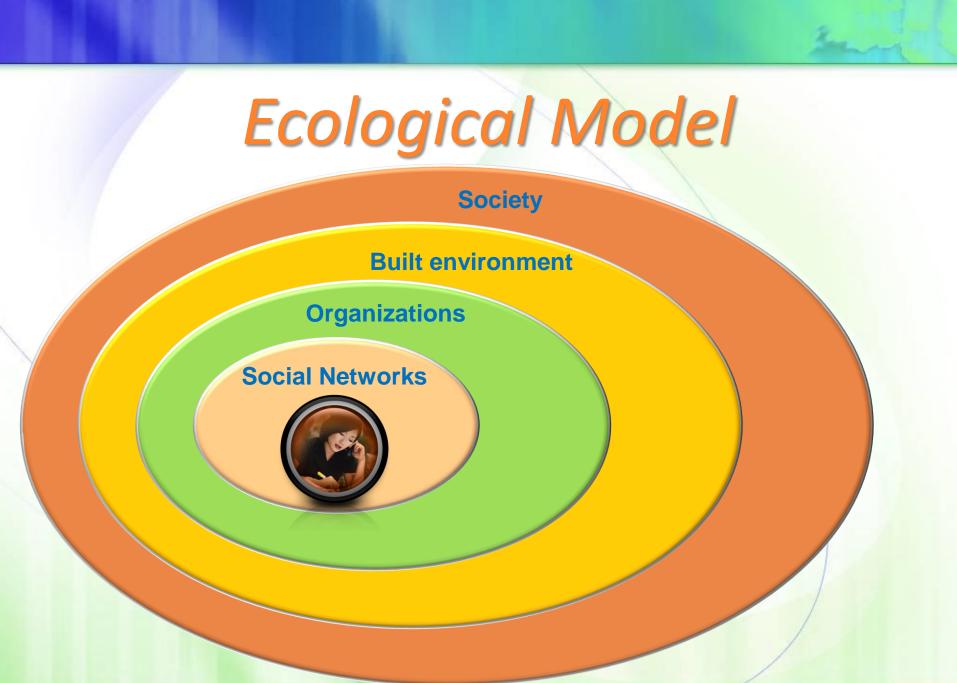




## **Behavior Change is Maximized**

Individuals are informed & motivated
All environments support change





## **Ecological Model**



Demographics
Age
Gender
Education
Income

## **Ecological Model**



**Psychographics** 

- Feeling
- Attitudes
- Quality of life
- Values
- Motivations
- Lifestyle priorities

## **Social Networks**



#### **Social Networks**

- Behavior expectations
- Model behaviors
- Support

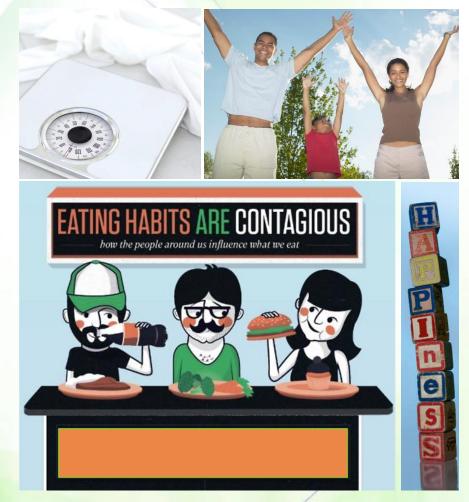


## **Social Networks**

anax many the pozzilko ives of wareaner deabele anes race a new israel lobey The New Hork Times Magazine



THE ENERGING SCIENCE OF 'SOCIAL CONTAGION' HOLDS THAT WE ARE WHOM WE SURROUND BURSELVES WITH, BY CLINE THOMPSON









Leahey et al, 2012; Webb et al, 2010; UK Dept of Health, 2011; text4baby, 2014

# Organizations

#### Workplaces



Food Outlets





#### **Houses of Worship**



5.29



















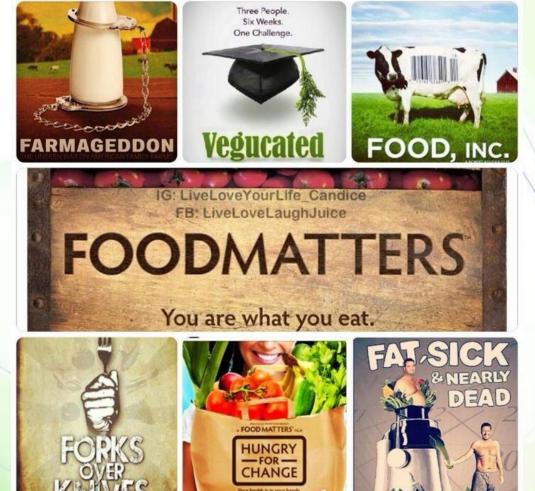


# Media

Laws



#### Society





### **Behavior Constructs**

#### Outcome Expectations

Preparation

Action

Contemplation

**Precontemplation** 

#### **Outcome Expectations**

Precontemplation	Contemplation	Preparation	Action
Cons > Pro	Cons = Pro	Cons <u>&lt;</u> Pro	Cons < Pro

#### **Consciousness Raising**



Baranowski et al, 2013; Dombrowski et al, 2012; Hartmann-Boyce et al, 2014; Quick et al, 2013; Byrd-Bredbenner et al, 2013; Kattelman et al, 2014; Quick et al, in press

#### **Consciousness Raising**



#### Show personal benefit

#### Knowing the benefits correlates with diet quality





Beydoun & Wang, 2007; Moon et al, 2005; Perspecta, 2005; Byrd-Bredbenner & Finckenor, 2001; Aldrich, 1999; Smallwood & Blaylock, 1994



## **Emotional Engagement**





Valente et al, 2007; Cottone & Byrd-Bredbenner, 2007

# Behavior Constructs

Action **Preparation Contemplation** 

Precontemplation

Outcome Expectations
Attitudes
Perceived Control

Petty et al, 2009; Krosnick & Petty, 1995

#### **Perceived Control**

Precontemplation	Contemplation	Preparation	Action
Cons > Pros	Cons = Pros	Cons ≤ Pros	Cons < Pros
Low Control	Some Control	More Control	Control

#### **Self-Regulation Skills**



Self-Monitoring Self-Contracting Goal Setting Problem Solving Coping Planning



#### **Stimulus Control &** Counterconditioning Planning skills: ↑ physical activity & 10 better weight loss maintenance Goal Setting: ↑ physical activity, better energy balance, & weight loss Self Contracting: 1 walking • Self Monitoring: improved eating, weight loss, & ↑ physical activity Problem Solving: identify potential solutions

Greaves et al, 2011; Dombrowski et al, 2012; Hartmann-Boyce et al, 2014; Michie et al, 2008; Bravata et al, 2007; Olgivie et al, 2007; Thompson et al, 2007; Bosch, 2007

#### **Behavior Constructs**

Preparation

Action

Contemplation

Outcome Expectations
Attitudes
Perceived Control
Self-Efficacy

**Precontemplation** 

Self Efficacy				
Precontemplation	Contemplation	Preparation	Action	
Cons > Pros	Cons = Pros	Cons <u>&lt;</u> Pros	Cons < Pros	
Low Control	Some Control	More Control	Control	
Low Self-efficacy	Some Self-efficacy	Moderate Self-efficacy	High Self-efficacy	

#### **Behavior Constructs**

Preparation

Action

#### Contemplation

Outcome Expectations
Attitudes
Perceived Control
Self-Efficacy
Social Networks

**Precontemplation** 

#### **Social Networks**

↑ physical activity
> weight loss
healthier behaviors



## How many change process?

# 2 or more

# Which behavior change strategy? Consider your audience Most are in pre-action stages

# Using behavior change processes increases program effectiveness

Precontemplation

Contemplation

**Preparation** 

Action

Glanz et al, 2008



# How do we add behavior change strategies to our programs?



# The Transtheoretical Model!



#### **Got Questions?**

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# Questions & Answers

OR

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#### **Following The Webcast**

• To access more information on the Behavior Change Profiles, including a PDF of today's slide presentation and the full report, please visit:

http://www.foodinsight.org/BehaviorChangeProfiles

- A recording of today's webcast will be available at a later date, so please check back.
- **Reminder:** Participants of this live-event webcast who are Registered Dietitians or Dietetic Technicians, Registered are eligible for **1.0 Continuing Education Units** from the Academy of Nutrition and Dietetics.
- **1.0 NBPHE CPH Continuing Education Credit** will be offered for those Certified Public Health Professionals who pre-register to view and participate in the LIVE Webcast.
  - An email will be sent one hour after the completion of this webcast with a link to download the certificate. CPEU is only available for those pre-registered for the live webcast today.





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