Behavioral Risk Factor Surveillance System Survey
AZ DHS, Bureau of Public Health Services

Khaleel Hussaini, PhD. – Bureau Chief
Division of Public Health Preparedness

Nicholas Bishop, PhD. – Arizona Vital Statistician

Judy Bass – AZ BRFSS Coordinator
ARIZONA’s BRFSS GOALS

- Director’s request to add E-Cigarette question to State-Added questions
- Our Bureau Chief will also be adding two of the substance abuse questions and three questions regarding the respondent’s nearest cross streets
- Geocoding marked 2014 and 2015 surveys
- Voting rules / voting electronically

BRFSS FUNDING

- Arizona’s BRFSS 2014 goal is to reach a sample size of 14,640 completed interviews
- Oversampling of Hispanic population by six regions
- Web-Based surveys in 2015
- Sample Design for 2014 and 2015 surveys
- BRFSS 2012 highlights
- BRFSS 2013 Data sets are available online
- Core questions
- Optional Modules questions
- State-Added questions / presentation by each of the programs
- Minimize the survey’s length of time to 25 minutes
- VOTE
AZDHS Director Will Humble has requested we include four E-cigarette questions; Bureau Chief Public Heath Status and Vital Statistics, Khaleel Hussaini will also be including possible 2 questions about Substance abuse and the nearest Cross-street question.
Cross-street Questions will be included in AZ BRFSS State-Added questions section (Timing .93)

Geocoding first to mark for 2014/2015
In order to help us learn more about environmental factors in your area, we’d like to know what the nearest intersection to your home is. This information will only be used to group your responses with others from your neighborhood. Please name the two cross-streets of this intersection.
Voting Process

- Applicants received copies of the applications from each of the stakeholders and programs

- Only applicants who are present are allowed to vote

- Everyone who is not a qualified applicant will be asked to leave at the end of the meeting

- Q/A session

- Vote on all modules recommended by CDC first

- Next, State-Added Questions- asking that you vote on the lesser number of questions first

- Then for State-Added you will vote on the greatest number of questions to be asked
State-added and Optional Module costs will be $5,100 per question for 2015.

CDC is planning to increase the ratio of cell phone interviews from 30% to nearly 50% over the next 5 years.

CDC’s Grant allocation have decreased over the years.

Therefore, the cost per question will likely increase to $6,100 for 2016.
BRFSS 2014
Annual Target = 14,640
Completed Interviews

- Pima: 20%
- Maricopa: 29%
- Cochise, Graham, Greenlee & Santa Cruz: 9%
- Pinal, & Gila: 14%
- Yuma, La Paz, & Mohave: 14%
- Apache, Coconino, Navajo, & Yavapai: 14%

$641,468.00
Oversampling of Hispanic Population

- We are currently looking at requesting the sample to include an oversampling of Arizona’s Hispanic Population.

- CDC is working on making sure that the sample contains telephone numbers that can assist us with gathering data for this particular ethnicity.

- CDC will identify exchanges that have higher incidence of Hispanics within a county or throughout the state. They will then place these exchanges in their own regions.

- Some of these regions will have an increase of targeted sample size.
What Web-Based Offers
(now and in the future)

- Lower cost per completed interview
- Potential to reach underrepresented populations
- Ability to provide multiple languages
- Fewer errors in data
- Coded to ensure that out-of-range answers are not provided
- Can be customized to our state’s needs
- Use of screening questions and welcome screens
- Might be used for any type of method
- Pre-survey letter Post-survey postcard
Overview of Web-Based BRFSS Methodology

States complete BRFSS calling protocols

Respondents with specific disposition codes are selected

Respondents access website

States mail letters/post cards with link information

Vendor compiles data
Arizona 2015 Sample Design by County
Arizona BRFSS Announcements:

- Bureau of Public Health staff update
- The annual 2012 AZ BRFSS report presented in E-book format
  http://azdhs.gov/phs/phstats/brfs/reports.htm
- BRFSS 2012 Highlights
- Preventative Practices examined
  - Arizonans reported having flu shot
  - Arizonans reported “could not afford needed medical care”
  - Arizona current smokers reported frequent mental distress
  - Percentage of Arizonans living in poverty with diabetes
  - Which of Arizona ‘s ethnic groups were more likely to report having no health insurance
  - Percentage of Arizonans reporting health risk behaviors
Routine Medical Examinations in the Past 12 Months

<table>
<thead>
<tr>
<th>Year</th>
<th>Arizona</th>
<th>National</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>61.7</td>
<td>67.2</td>
</tr>
<tr>
<td>2006</td>
<td>65.5</td>
<td>67.0</td>
</tr>
<tr>
<td>2007</td>
<td>65.2</td>
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<td>2008</td>
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<td>68.4</td>
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<td>2009</td>
<td>65.9</td>
<td>68.6</td>
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<td>2010</td>
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<td>68.0</td>
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<td>61.8</td>
<td>66.9</td>
</tr>
<tr>
<td>2012</td>
<td>63.6</td>
<td>67.8</td>
</tr>
</tbody>
</table>
Arizonans 65+ fell in the lowest category of influenza vaccination in past 12 months.
Arizonans without Insurance vs. Arizona with Insurance

The graph compares the percentage of Arizonans without insurance to those with insurance from 2005 to 2012. The data shows a general trend of increasing insurance coverage over the years, with a peak in 2008. The blue line represents Arizonans without insurance, and the red line represents those with insurance. The shaded area indicates the differences between the two groups. The data points for each year are as follows:

- 2005: 35.8%
- 2006: 49.5%
- 2007: 36.0%
- 2008: 39.0%
- 2009: 36.0%
- 2010: 35.4%
- 2011: 33.6%
- 2012: 33.1%

The graph also includes post-stratification and raked data points.
Arizonans 50+ reported having Fecal Occult Blood Testing (FOBT)

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<tr>
<th>Year</th>
<th>Post-Stratification</th>
<th>Raked</th>
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<tbody>
<tr>
<td>2004</td>
<td>49.1</td>
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</tr>
<tr>
<td>2005</td>
<td>45</td>
<td></td>
</tr>
<tr>
<td>2006</td>
<td>45.6</td>
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<td>2007</td>
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<td>2008</td>
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<td>2009</td>
<td>NA</td>
<td>39.3</td>
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<td>2010</td>
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</tr>
<tr>
<td>2011</td>
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<tr>
<td>2012</td>
<td>35.6</td>
<td></td>
</tr>
</tbody>
</table>

- **Arizona**
- **National**
Arizonan Females 40+ in lowest category to receive a mammogram
Arizonans Could Not Afford Needed Medical Care

<table>
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<th>Year</th>
<th>Arizona</th>
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<td>2005</td>
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<td>2008</td>
<td>13.9</td>
<td>14.3</td>
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<td>2009</td>
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<td>15.1</td>
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<td>2011</td>
<td>18.9</td>
<td>17.1</td>
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<td>2012</td>
<td>20.9</td>
<td>16.8</td>
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Frequent Mental Distress (FMD) by Household Income
Women who reported as Current Smokers reported Frequent Physical Distress (FPD)

<table>
<thead>
<tr>
<th>Smoking Status</th>
<th>Percent of Women who are of Child Bearing Age</th>
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<td>Never</td>
<td>Not FPD 73.1</td>
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<td>FPD 58.4</td>
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<tr>
<td>Current</td>
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<td>FPD 35.0</td>
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<tr>
<td>Former</td>
<td>Not FPD 14.9</td>
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<td>Heavy Drinker</td>
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<td>Binge Drinker</td>
<td>Not FPD 14.5</td>
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<td></td>
<td>FPD 10.6</td>
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Chronic Diseases by Poverty Status

- Skin Cancer
- COPD
- Kidney Disease
- Gout, Arthritis, Lupus, or Fibromyalgia
- Diabetes
- Heart Attack
- Angina
- Stroke
Reported No Health Insurance

- White Non-Hispanic
- Black
- Asian/PI
- American Indian
- Hispanic

Percent of Arizonans Reporting No Insurance
BRFSS 2013 Data is currently posted at:

- [http://azdhs.gov/phs/phstats/brfs/data.htm](http://azdhs.gov/phs/phstats/brfs/data.htm)
Behavioral Risk Factor Surveillance Survey
BRFSS 2015

- Core Questions
- Optional Modules
- State - Added Questions
- JUSTIFICATIONS
BRFSS Questions Length of time

- How much time are respondents willing to spend completing the BRFSS survey?

- Creating questions: Make sure they are short

- Dealing with CDC request to add, voice your concerns to them regarding the length of your questions for example:

Fruits_and_Veggies_Physs_Activ_650M[1].wav
### Timing of the BRFSS 2015 Core questions
16.862 minutes

<table>
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<tbody>
<tr>
<td>Alcohol Consumption</td>
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<td>Arthritis Burden</td>
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<td>Cancer, Breast/ Cervical</td>
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<td>7</td>
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<tr>
<td>Cancer, Colorectal</td>
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<td>5</td>
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<tr>
<td>Cancer, Prostate</td>
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<td>6</td>
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<td>Cholesterol Awareness</td>
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<td>Diabetes-Pre</td>
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<td>Drinking &amp; Driving</td>
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<tr>
<td>Exercise (Physical Activity)</td>
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<td>8</td>
<td>1.9</td>
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<tr>
<td>Falls</td>
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<tr>
<td>Fruits and Vegetables</td>
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<td>Health Care Coverage</td>
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<td>4</td>
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<tr>
<td>Health Care Access</td>
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<td>1</td>
<td>1</td>
<td></td>
<td></td>
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<tr>
<td>Health Days (Quality of Life)</td>
<td></td>
<td>3</td>
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<td>3</td>
<td>0.765</td>
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<tr>
<td>HIV/AIDS</td>
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<td>3</td>
<td>3</td>
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<td>Hypertension Awareness</td>
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<tr>
<td>Immunization</td>
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<td>4</td>
<td>4</td>
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<tr>
<td>Inadequate Sleep</td>
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<td>1</td>
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<td></td>
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<tr>
<td>Oral Health</td>
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<tr>
<td>Seatbelt Use</td>
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<td>Tobacco Use</td>
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<td>5</td>
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<tr>
<td>Total number of questions</td>
<td></td>
<td>107</td>
<td>97</td>
<td>89</td>
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<tr>
<td>Total number of minutes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>16.862</td>
</tr>
</tbody>
</table>
Core Questions

Year

Number of Questions Asked

2008: 83
2009: 113
2010: 108
2011: 98
2012: 85
2013: 107
2014: 97
2015: 89
<table>
<thead>
<tr>
<th>Questions</th>
<th># of Questions</th>
<th>Timing</th>
</tr>
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<tbody>
<tr>
<td>Diabetes</td>
<td>9</td>
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<tr>
<td>Cognitive Decline</td>
<td>6</td>
<td>0.74</td>
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<tr>
<td>Total time</td>
<td>15</td>
<td>1.22</td>
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State-Added & Optional Module

proposed questions
Voting procedures

Final votes are “advisory” to the BRFSS program

Those who attend the meeting will be allowed to vote; each of you will have an electronic clicker which will allow you to vote on which questions you agree to include in the BRFSS 2015 Survey.

The cost for each question will be $5,100. E.g., the Healthy Days (Symptoms) module contains 4 questions; therefore, the total costs would be $20,400.00.
Goal for BRFSS for the timing length of the survey is to stay within 25 minutes

<table>
<thead>
<tr>
<th>Type of question</th>
<th>Total Number of questions</th>
<th>Total number of minutes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
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<td>2.00</td>
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<tr>
<td>CORE QUESTIONS</td>
<td>89</td>
<td>16.90</td>
</tr>
<tr>
<td>E-Cigarette</td>
<td>4</td>
<td>1.41</td>
</tr>
<tr>
<td>Nearest Crossroads</td>
<td>3</td>
<td>.93</td>
</tr>
<tr>
<td>Optional Modules</td>
<td>15</td>
<td>1.22</td>
</tr>
<tr>
<td>State-Added questions</td>
<td>33</td>
<td>3.31</td>
</tr>
<tr>
<td>Grand Total</td>
<td>142</td>
<td>25.77</td>
</tr>
</tbody>
</table>
Please cast your vote for all of the proposed optional modules and State-Added questions

1. Yes
2. No
Voting on Individual questions
Random Child Selection:
Module 20.
Question 1: Child’s Birth date?

1. Yes
2. No
Module 20.

Question 2: Child’s gender?

1. Yes
2. No
Random Child Selection

Question 3: Child’s height?

1. Yes
2. No
Random Child Selection
Question 4: Child’s weight?

1. Yes
2. No
Do you agree on Chronic Hearing Impairment?

1. Yes
2. No
Preconception Health/Family Planning

1. Yes
2. No
Cognitive Decline

1. Yes
2. No
Adult Asthma History?

1. Yes
2. No
1. Yes
2. No
Diabetes Module
9 questions

1. Yes
2. No
Food Stamp Benefits
Three questions

1. Yes
2. No
Sugar Drinks
Two questions

1. Yes
2. No
Sun Safety Practices & Skin Cancer Prevention
All four questions

1. Yes
2. No
State-Added Questions

Number of Questions Asked

YEAR


23 23 45 40 45 42 58 33
TIMING FOR ARIZONA BRFSS 2015 PROPOSED QUESTIONS

- CORE: 16.862 Minutes
- OPTIONAL: 1.22 Minutes
- STATE-ADDED: 2.98 Minutes
- Nearest Cross-Streets: 0.93 Minutes
- E-Cigarette: 1.41 Minutes

Total minutes = 22.252
Vote tallies

K:\BRFSS\BRFSS 2015\Chart in Microsoft PowerPoint calculation 2015.xlsx
Contact Information

• Judy Bass
• Phone # 602 542-1125
• E-mail - Bassj@azdhs.gov
• Website: http://azdhs.gov/phs/phstats/brfs/index.htm