Visualizing Data in Microsoft Office

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The findings and conclusions in this presentation are those of the author and do not necessarily represent those of the Centers for Disease Control and Prevention.
Agenda

- Customized Chart Types
- Pivot Tables & PowerPivot
- Interactive Dashboard
- Word and PowerPoint
Custom Chart Types
Past 30-day cigarette use among persons aged ≥18 years, by Asian subgroups and sex, United States 2010–2013

<table>
<thead>
<tr>
<th>Group</th>
<th>Male</th>
<th>Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chinese</td>
<td>13.3%</td>
<td>2.9%</td>
</tr>
<tr>
<td>Filipino</td>
<td>20.6%</td>
<td>7.5%</td>
</tr>
<tr>
<td>Japanese*</td>
<td>11.6%</td>
<td>3.3%</td>
</tr>
<tr>
<td>Asian Indian</td>
<td>19.3%</td>
<td>20.4%</td>
</tr>
<tr>
<td>Vietnamese</td>
<td>24.4%</td>
<td>7.9%</td>
</tr>
</tbody>
</table>

Quitline Volume, January-June 2017

Ohio has nearly met their goal.

High School Tobacco Use in the past 30 days by sex — NYTS, United States, 2016

<table>
<thead>
<tr>
<th>Product</th>
<th>2015</th>
<th>2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-Cigarettes</td>
<td>16.0%</td>
<td>13.1%</td>
</tr>
<tr>
<td>Cigarettes</td>
<td>9.1%</td>
<td>6.9%</td>
</tr>
<tr>
<td>Cigars</td>
<td>9.0%</td>
<td>5.6%</td>
</tr>
<tr>
<td>Smokeless tobacco</td>
<td>8.3%</td>
<td>3.3%</td>
</tr>
<tr>
<td>Hookah</td>
<td>5.1%</td>
<td>4.5%</td>
</tr>
</tbody>
</table>

Electronic Cigarettes and Hookah use markedly decreased among High School Students, NYTS, United States

2015

- Cigarettes 9.3%
- Cigars 8.6%
- Hookah 7.2%
- Smokeless tobacco 6.0%
- Pipe tobacco 1.0%
- Bidis 0.6%

2016

- Cigarettes 11.3%
- Cigars 8.0%
- Hookah 7.7%
- Smokeless tobacco 5.8%
- Pipe tobacco 1.4%
- Bidis 0.5%
Past 30-day cigarette use among persons aged ≥18 years, by Asian subgroups and sex, United States 2010–2013

<table>
<thead>
<tr>
<th>Ethnicity</th>
<th>Men</th>
<th>Women</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chinese</td>
<td>13.3%</td>
<td>2.9%</td>
</tr>
<tr>
<td>Filipino</td>
<td>20.6%</td>
<td>7.5%</td>
</tr>
<tr>
<td>Japanese*</td>
<td></td>
<td>5.9%</td>
</tr>
<tr>
<td>Asian Indian</td>
<td>11.6%</td>
<td>3.3%</td>
</tr>
<tr>
<td>Korean</td>
<td>19.3%</td>
<td>20.4%</td>
</tr>
<tr>
<td>Vietnamese</td>
<td>24.4%</td>
<td>7.9%</td>
</tr>
</tbody>
</table>

* Japanese men: Low precision (relative standard error >17.5%); no estimate reported

Source: National Survey on Drug Use and Health [https://www.cdc.gov/mmwr/volumes/65/wr/mm6530a1.htm?s_cid=mm6530a1_w](https://www.cdc.gov/mmwr/volumes/65/wr/mm6530a1.htm?s_cid=mm6530a1_w)
Ohio has nearly met their goal.
Goal: 10000
Year to Date: 8000

Quitline Volume, January-June 2017*

* Data Source: This is hypothetical data.
Percentage of high school students who used tobacco products in the past 30 days, by product, United States, 2016

- **E-cigarettes**: O%
- **Cigarettes**: 5%
- **Cigars**: 10%
- **Smokeless tobacco**: 15%
- **Hookah**:
- **Pipe tobacco**:
- **Bidis**: 0%

Tobacco Use among High School Students in the past 30 days Source: National Youth Tobacco Survey, 2016

[https://www.cdc.gov/mmwr/volumes/66/wr/mm6623a1.htm?s_cid=mm6623a1_w](https://www.cdc.gov/mmwr/volumes/66/wr/mm6623a1.htm?s_cid=mm6623a1_w)
High School Tobacco Use in the past 30 days by sex — NYTS, United States, 2016

- **E-Cigarettes**
  - Female: 9.5%
  - Male: 13.1%

- **Cigarettes**
  - Female: 6.9%
  - Male: 9.1%

- **Cigars**
  - Female: 5.6%
  - Male: 9.0%

- **Smokeless tobacco**
  - Female: 3.3%
  - Male: 8.3%

- **Hookah**
  - Female: 4.5%
  - Male: 5.1%

[https://www.cdc.gov/mmwr/volumes/66/wr/mm6623a1.htm?s_cid=mm6623a1_w](https://www.cdc.gov/mmwr/volumes/66/wr/mm6623a1.htm?s_cid=mm6623a1_w)
Electronic Cigarettes and Hookah use markedly decreased among High School Students, NYTS, United States

Figure X. Tobacco Use among High School Students in the past 30 days
https://www.cdc.gov/mmwr/volumes/66/wr/mm6623a1.htm?s_cid=mm6623a1_w
Pivot Table and PowerPivot
### Pivot Table

![Excel Pivot Table Image]

**Chart Details:**
- **Chart Name:** State Trend
- **Fields:**
  - Race
  - Age
  - Education
- **Min of Data Value:**
  - Location
  - Year
- **Year Values:**
  - 2011
  - 2012
  - 2013
  - 2014
  - 2015
- **Locations:**
  - Washington

**Legend:**
- **LEGEND (SERIES):**
  - Race
  - Location
  - Year
  - Min of Data Value
PowerPivot
Interactive Dashboard

Washington

Adult Smoking by Race/Ethnicity, 2015

- White: 17.5%
- Hispanic: 13.5%
- Asian/Pacific Islander: 12.1%
- American Indian/Alaska Native: 32.5%
- African American: 18.8%

Adult Smoking by Sex, 2015

- Male: 18.7%
- Female: 15.7%

Progress toward Healthy People 2020 Target

- HP Target: 15.0%
- 2020 Target: 12.0%
Word and PowerPoint
Adult Cigarette Smoking
State 2015 Snapshot

Annual Summary

Trends in Adult Cigarette Smoking, BRFSS, 2011-2015

Progress toward Healthy People 2020 Target

Disparities in Adult Cigarette Smoking

Contact Information: For more information, contact XXX
In 2015, 1 in 3 American Indians/Alaska Natives Smoked Cigarettes

In 2015, 1 in 3 American Indians/Alaska Natives smoked cigarettes.
PowerPoint Capabilities

- Developing reports
- Creating infographics
- Making maps
- Static or interactive dashboards
Resources

Data Visualization and Presentation with Microsoft Office – Valerie Use and Matthew Griffin

Effective Data Visualization – Stephanie Evergreen
Questions?

Contact:
Yessica Gomez
xca1@cdc.gov
770-488-8947

For more information, contact CDC
1-800-CDC-INFO (232-4636)

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