

Web Screen Presentation Using Blaise 5

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Agenda



CBECS

Commercial Buildings
Energy Consumption Survey

Challenges on the CBECS

Approaches to Meeting those Challenges

Look and Feel

Survey-Specific Issues

Next Steps

CBECS

- CBECS 2018 collects data on more than 8,000 commercial buildings in the United States
- Complex survey
 - Building size
 - Building use
 - Energy use: electricity, gas, oil, steam, water

CBECS Data Collection

- CBECS has been collecting data since 1979
- Blaise in use for CAPI and CATI since 1999
- 2018: respondents choose web or CAPI
- Expected 40% web, 60% CAPI
- Transition to web means moving to Blaise 5
- Also means re-thinking key elements of the survey design and presentation

Web Survey Challenges

The move to web data collection has meant two kinds of challenges:

1. Look and Feel
2. Survey-Specific Issues

Approach


EIA and Westat formed a “best practices” team to

- Identify issues presented by web data collection
- Review the literature
- Convene expert survey methodologists
- Prototype and test candidate solutions
- Review and recommend outcomes

Challenge:

Look and Feel

Categorical Question



2018 Commercial Buildings Energy Consumption Survey



A9 :: Wall construction material

Which one of these categories best describes the predominant exterior wall construction material used on this building?

- Brick, stone, or stucco
- Pre-cast concrete panels
- Concrete block or poured concrete (above grade)
- Aluminum, asbestos, plastic, or wood materials (siding, shingles, tiles, or shakes)
- Sheet metal panels
- Window or vision glass (glass that can be seen through)
- Decorative or construction glass (glass that cannot be seen through)
- Other

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Challenge:

Look and Feel

Continuous Question

Commercial Buildings Energy Consumption Survey - Evaluation5



A16 :: Number of floors

How many floors are in the tallest section of the building, including basements, parking levels, or any other floors below ground level, but excluding attics, half-floors, mezzanines, balconies, and lofts? If you're not sure, please provide your best estimate.

floors

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Save and Continue Later

Challenge:

CBECS Design

Considerations moving from CAPI-only to multimode web and CAPI


- Show Cards
- Question-specific help
- Optional text and Probing
- Item Nonresponse

Show Cards


- Previously hard copy
- Shorten
- Add to screen

SHOW CARD A4
Roof Tilt
(profile view)


1) Flat




2) Shallow pitch
(3 in 12 or less; 14° or less)



3) Steeper pitch
(more than 3 in 12; more than 14°)




Show Cards

 **2018 Commercial Buildings Energy Consumption Survey**


A13 :: Roof tilt

Which one of these images best represents the tilt or pitch of the roof of this building?


Flat



Shallow pitch





Steeper pitch



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Question-Specific Help

- In CAPI we used question-by-question help text
- CAPI interviewers pressed F1 for help
- Experimented with “tool tips” but did not work with mobile browsers

Question-Specific Help



Commercial Buildings Energy Consumption Survey - Evaluation5

B1 :: Primary activity

Which one of these activities accounts for the majority of the floorspace in this building?

If there are equal shares of floorspace for more than one activity, select any of those activities here.

- | | |
|--|---|
| <input type="radio"/> Office/Professional ? | <input type="radio"/> Health care ? |
| <input type="radio"/> Data center ? | <input type="radio"/> Service ? |
| <input type="radio"/> Warehouse/Storage ? | <input type="radio"/> Lodging ? |
| <input type="radio"/> Food sales or service ? | <input type="radio"/> Public order and safety ? |
| <input type="radio"/> Enclosed mall ? | <input type="radio"/> Residential ? |
| <input type="radio"/> Retail (other than mall) ? | <input type="radio"/> Industrial ? |
| <input type="radio"/> Education ? | <input type="radio"/> Agricultural ? |
| <input type="radio"/> Religious worship ? | <input type="radio"/> Vacant ? |
| <input type="radio"/> Public assembly ? | <input type="radio"/> Other ? |

Buildings where people gather for entertainment, cultural, recreational, or social, activities. Examples: art gallery; exhibit hall; library; museum; casino; concert hall; night club; observatory/planetarium; stadium/arena/coliseum; theater/cinema; amusement arcade; bowling alley; community center; gymnasium/health club; indoor racquet sports; recreation center; indoor swimming pool; skating rink; assembly hall/auditorium; convention center; funeral home; lecture hall; lodge hall; meeting hall; student union; senior center; town hall; armory; airport terminal; train/bus station.

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Save and Continue Later

Interviewer Instructions


Probing

- Interviewer instructions eliminated
- Probes converted to question text

Interviewer Instructions

Probing

Probes are added to the question text

 **Commercial Buildings Energy Consumption Survey - Evaluation5**



A16 :: Number of floors

How many floors are in the tallest section of the building, including basements, parking levels, or any other floors below ground level, but excluding attics, half-floors, mezzanines, balconies, and lofts? If you're not sure, please provide your best estimate.

floors

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Item Non- Response

Accommodating DK and Ref was challenging

- Remove DK and Ref as responses
- Assume Empty = non-response
- New missing value: SK for “skipped”

Item Non- Response

Leaving the field EMPTY
triggers a prompt

 **2018 Commercial Buildings Energy Consumption Survey -
20181018Partial**

A10 :: Roof construction material



Which one of these categories best describes the building's predominant exterior roof surface?

Did you mean to leave this question blank? If not, please provide an answer and select the "Next" button. Otherwise, select "Next" to skip the question.

- Built-up (tar, felts, or fiberglass and a ballast, such as stone)
- Slate or tile shingles
- Wood shingles, shakes, or other wooden materials
- Asphalt, fiberglass, or other shingles
- Metal surfacing
- Plastic, rubber, or synthetic sheeting (single or multi ply)
- Concrete
- Other

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Item Non- Response

Explicit Don't Know

The screenshot shows a web browser window with two tabs for 'Commercial Buildings Energy Co.'. The address bar shows the URL 'https://cbecs2018demo.wesdemo.com/evaluation5/'. The page title is 'Commercial Buildings Energy Consumption Survey - Evaluation5'. The survey question is: 'What is the gross or total square footage of all the space in this building, both finished and unfinished, including basements, hallways, lobbies, stairways, elevator shafts, and indoor parking levels?'. Below the question is a text input field with the placeholder 'Enter a number' and the label 'square feet'. There is also a radio button option labeled 'I don't know'. Navigation buttons for 'Next' and 'Back' are present. Logos for the 'U.S. DEPARTMENT OF ENERGY' and 'eia' are shown. A 'Save and Continue Later' button is in the bottom right corner. The question ID 'A6 :: Square footage' is in the top right corner.

Commercial Buildings Energy Co. x Commercial Buildings Energy Co. x +

https://cbecs2018demo.wesdemo.com/evaluation5/

Commercial Buildings Energy Consumption Survey - Evaluation5

A6 :: Square footage

What is the gross or total square footage of all the space in this building, both finished and unfinished, including basements, hallways, lobbies, stairways, elevator shafts, and indoor parking levels?

square feet

I don't know

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U.S. DEPARTMENT OF ENERGY eia

Save and Continue Later

Lessons Learned & Next Steps

- Managing Specifications
- Mobile
- Main study questionnaire

Thank You

For more information

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