

**Public Interest Energy Research (PIER) Program
FINAL PROJECT REPORT**

**INDOOR ENVIRONMENTAL QUALITY
AND HEATING, VENTILATING, AND
AIR CONDITIONING SURVEY OF
SMALL- AND MEDIUM-SIZE
COMMERCIAL BUILDINGS**

Appendices C through G

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Appendices

Appendix C: Telephone Questionnaire

Appendix D: HVAC Questionnaire

Appendix E: Codebook and Frequencies for the Indoor Environmental Quality and HVAC Survey of Small and Medium Commercial Buildings (SMCB)

Appendix F. Codebook for the Heating, Ventilation and Air Conditioning SAQ (2008)

Appendix G. Pie Charts for SMCB Survey Responses

Appendix C.

Telephone Questionnaire

CARB 2008 SMALL AND MEDIUM COMMERCIAL BUILDING STUDY (SMCB)

SUBSTANTIVE PORTION OF THE COMPUTER ASSISTED TELEPHONE QUESTIONNAIRE

>ci1<

First, what is the name of this business (or office)?

>ci2<

What is the address of this building?

Street address: @addr

City: @city

Zip: @zip

[# REFUSED/DON'T KNOW IS NOT AN OPTION FOR THE TYPE OF BUSINESS SERIES

>ci3<

What is the MAIN business carried out in this building?

<1> Office: Non-medical

<2> Health Care

<3> Restaurant/Food service

<4> Food store

<5> Retail store

<6> Lodging (Hotels, Motels, Resorts)

<7> Public assembly (Religious, Fitness, Theaters, Conference)

<8> Services

<9> Miscellaneous (Assembly/Manufacturing, Police/Fire, etc.)

<10> Other/Cannot decide main business/Won't say (SPECIFY)

@

>ci3a< [# ONLY ASK IF 'ci3' IS <1>]

NON-MEDICAL OFFICES

INTERVIEWER: CODE SPECIFIC TYPE OF BUSINESS HERE

<1> Data Processing/Computer Center

<2> Lab/Research & Development facility

<3> Other

@

>ci3b< [# ONLY ASK IF 'ci3' IS <2>]

HEALTH CARE

INTERVIEWER: CODE SPECIFIC TYPE OF BUSINESS HERE

- <1> Hospital
- <2> Nursing Home
- <3> Dental Office
- <4> Orthodontist
- <5> Medical Office
- <6> Clinic/Outpatient
- <7> Other (SPECIFY)

@

>ci3c< [# ONLY ASK IF 'ci3' IS <3>]

RESTAURANT/FOOD SERVICE

INTERVIEWER: CODE SPECIFIC TYPE OF BUSINESS HERE

- <1> Fast Food/Self-serve
- <2> Specialty/Novelty (single item; bagels, yogurt, etc.)
- <3> Table Service
- <4> Bar/Tavern/Nightclub
- <5> Other (SPECIFY)

@

>ci3d< [# ONLY ASK IF 'ci3' IS <4>]

FOOD STORE

INTERVIEWER: CODE SPECIFIC TYPE OF BUSINESS HERE

- <1> Supermarket
- <2> Small Grocery
- <3> Specialty/Ethnic
- <4> Convenience, no gasoline
- <5> Liquor
- <6> Other (SPECIFY)

@

>ci3e< [# ONLY ASK IF 'ci3' IS <5>]

RETAIL

INTERVIEWER: CODE SPECIFIC TYPE OF BUSINESS HERE

- <1> Department/Variety
- <2> Warehouse/Club
- <3> Shop in enclosed mall
- <4> Shop in strip mall
- <5> Auto sales
- <6> Other (SPECIFY)

@

>ci3f< [# ONLY ASK IF 'ci3' IS <6>]

LODGING

INTERVIEWER: CODE SPECIFIC TYPE OF BUSINESS HERE

- <1> Hotel
- <2> Motel
- <3> Resort
- <4> Other (SPECIFY)

@

>ci3g< [# ONLY ASK IF 'ci3' IS <7>]

PUBLIC ASSEMBLY

INTERVIEWER: CODE SPECIFIC TYPE OF BUSINESS HERE

- <1> Religious, worship only
- <2> Religious, mixed-use
- <3> Health/Fitness
- <4> Movie Theater
- <5> Theater/Performing Arts
- <6> Library/Museum
- <7> Conference/Convention
- <8> Other (SPECIFY)

@

>ci3h< [# ONLY ASK IF 'ci3' IS <8>]

SERVICE

INTERVIEWER: CODE SPECIFIC TYPE OF BUSINESS HERE

- <1> Auto Repair, no gasoline
- <2> Gas Station
- <3> Services, non-automotive
- <4> Other (SPECIFY)

@

>ci3i< [# ONLY ASK IF 'ci3' IS <9>]

OTHER/MISCELLANEOUS

INTERVIEWER: CODE SPECIFIC TYPE OF BUSINESS HERE

- <1> Assembly/Light manufacturing
- <2> Police/Fire
- <3> Post Office
- <4> Other (SPECIFY)

@

>ci5<

Is the space leased or owned by the business owner?

- <1> Leased
- <5> Owned

@

>ci6< [# IF R SAID BUILDING HAS 2 OR MORE STORIES DURING SCREENING.

You said your building has [2/3] stories.

How many stories does your business actually use?

(1-3) Stories: @

[# BUILDING DESCRIPTION

>bd1<

In what year was this building's construction COMPLETED?

(1979-2008) ENTER YEAR

@

>bd2<

Has there been a major renovation or addition since the completion of the original building?

<1> Yes

<5> No [SKIP TO 'sifA7']

@

>bd2a<

In what year was the last major renovation or addition?

(1979-2008) ENTER YEAR

@

>bd2b<

Please describe the renovation, especially any changes to the ventilation system that might affect ventilation rates, such as new windows or doors, a new HVAC system, weatherizing or a large change in volume of the space. Choose from the following list:

(READ EACH AND CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

@1 New ventilation system

@2 New windows and/or doors

@3 Weatherization

@4 Other (SPECIFY)

[# Space Interior Finishes

[# FIRST FLOOR

>sifA7<

What types of floor finishes are in the space on the first floor?

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

@a Carpet

@b Wood

@c Ceramic Tile

@d Concrete

@e Vinyl Flooring

@f Linoleum

@g Other (SPECIFY)

>sifA7a<

IF ONLY ONE ITEM IS CHECKED IN 'sifA7', THIS QUESTION IS AUTOCODED AND SKIPPED. OTHERWISE, ONLY ITEMS CODED <1> IN 'sifA7' WILL BE AVAILABLE OPTIONS.

Which of the floor finishes you mentioned is the primary one?

- <1> Carpet
- <2> Wood
- <3> Ceramic Tile
- <4> Concrete
- <5> Vinyl Flooring
- <6> Linoleum
- <7> Other (SPECIFY)

@

[# SECOND FLOOR

>sifB7<

What types of floor finishes are in the space on the SECOND floor?

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

- @a Carpet
- @b Wood
- @c Ceramic Tile
- @d Concrete
- @e Vinyl Flooring
- @f Linoleum
- @g Other (SPECIFY)

IF THE BUSINESS USES ONLY ONE FLOOR, THE INTERVIEW SKIPS TO 'bola'.

>sifB7a<

IF ONLY ONE ITEM IS CHECKED IN 'sifB7', THIS QUESTION IS AUTOCODED AND SKIPPED. OTHERWISE, ONLY ITEMS CODED <1> IN 'sifB7' WILL BE AVAILABLE OPTIONS.

Which of the floor finishes you mentioned is the primary one?

- <1> Carpet
- <2> Wood
- <3> Ceramic Tile
- <4> Concrete
- <5> Vinyl Flooring
- <6> Linoleum
- <7> Other (SPECIFY)

@

IF THE BUSINESS USES ONLY TWO FLOORS, THE INTERVIEW SKIPS TO 'bola'.

[# THIRD FLOOR
>sifc7<

What types of floor finishes are in the space on the THIRD floor?

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

@a Carpet
@b Wood
@c Ceramic Tile
@d Concrete
@e Vinyl Flooring
@f Linoleum
@g Other (SPECIFY)

>sifc7a<

IF ONLY ONE ITEM IS CHECKED IN 'sifc7', THIS QUESTION IS
AUTOCODED AND SKIPPED. OTHERWISE, ONLY ITEMS CODED <1>
IN 'sifc7' WILL BE AVAILABLE OPTIONS.

Which of the floor finishes you mentioned is the primary one?

<1> Carpet
<2> Wood
<3> Ceramic Tile
<4> Concrete
<5> Vinyl Flooring
<6> Linoleum
<7> Other (SPECIFY)

@

>bola<

Is MOST of this building typically open for business 24 hours,
seven days a week?

<1> Yes [SKIP TO 'bo9']
<5> No

@

>bol<

What are the typical weekday (Monday - Friday) business hours
(for MOST of the building)?

INTERVIEWER: Enter (x) in "Open Time" if NOT OPEN
Monday - Friday.

Open Time: @a (A)M (P)M @a1
Closed Time: @b (A)M (P)M @b1

>bo2<

What are the typical Saturday business hours
(for MOST of the building)?

INTERVIEWER: Enter (x) in "Open Time" if NOT OPEN Saturday.

Open Time: @a (A)M (P)M @a1
Closed Time: @b (A)M (P)M @b1

>bo3<

What are the typical Sunday business hours
(for MOST of the building)?

INTERVIEWER: Enter (x) in "Open Time" if NOT OPEN Sunday.

Open Time: @a (A)M (P)M @a1
Closed Time: @b (A)M (P)M @b1

>bo9<

During business hours, in a typical week, what is the MAXIMUM
number of employees, including contractors and other workers,
in the space at any point in time?

<1-1000> Employees
<1001> Over 1,000 Employees

@

>bo10<

During business hours, in a typical week, what is the MAXIMUM
number of customers or members of the public in the space at
any point in time?

<1-1000> Customers
<1001> Over 1,000 Customers

@

[# Surrounding Locale

>sul<

Would you describe the area surrounding the building as urban,
suburban, rural or something else?

<1> Urban
<2> Suburban
<3> Rural
<4> Something else (SPECIFY)

@

>sula<

Would you describe the area surrounding the building as industrial, commercial, residential, agricultural, or something else?

By "surrounding area" we mean the area within a half-mile.

- <1> Industrial
- <2> Commercial
- <3> Residential/Resort-like
- <4> Agricultural
- <5> Something else (SPECIFY)

@

[# HVAC OPERATING SCHEDULE

>os1<

For this question, thinking of the space where MOST of the people spend MOST of their time, does the space have one thermostat setting for COOLING, or more than one?

- <1> One setting
- <2> Two or more
- <3> Turned off/Not used [SKIP TO 'os2']

@

>os1b<

What are the thermostat settings for COOLING when it is OCCUPIED?

Primary Schedule: <60-100> Degrees @1

[# IF TWO SETTINGS:

Secondary Schedule: <60-100> Degrees @2

>os2<

When the space is UNOCCUPIED, does the thermostat have one cooling setting or more than one?

- <1> One setting
- <2> Two or more
- <3> Turned off/Not used [SKIP TO 'os3']

@

>os2b<

What are the thermostat cooling settings when it is UNOCCUPIED?

Primary Schedule: <60-100> Degrees @1

[# IF TWO SETTINGS:

Secondary Schedule: <60-100> Degrees @2

>os3<

When the space is OCCUPIED, does the space have one thermostat setting for HEATING or more than one?

<1> One setting

<2> Two or more

<3> Turned off/Not used [SKIP TO 'os4']

@

>os3b<

What are the thermostat settings for HEATING when it is OCCUPIED?

Primary Schedule: <60-100> Degrees @1

[# IF TWO SETTINGS:

Secondary Schedule: <60-100> Degrees @2

>os4<

When the space is UNOCCUPIED, does the thermostat have one heating setting or more than one?

<1> One setting

<2> Two or more

<3> Turned off/Not used [SKIP TO 'be2']

@

>os4b<

What are the thermostat settings for HEATING when it is UNOCCUPIED?

Primary Schedule: <60-100> Degrees @1

[# IF TWO SETTINGS:

Secondary Schedule: <60-100> Degrees @2

[# BUILDING ENVELOPE

>be2<

Are there any windows in the space that are capable of being opened?

<1> Yes

<5> No [SKIP TO 'be4']

@

>be2b< [# ASKED IF 'be2' IS YES]

Are these windows opened regularly during some seasons?

<1> Yes

<5> No

@

>be4<

Are there any doors in the space that are left open regularly that allow air to flow to or from outside or to or from another space that is ventilated by a different system than this space?

<1> Yes

<5> No [SKIP TO 'ic3']

@

>be4a< [# ASKED IF 'be4' IS YES]

How many such doors are left open regularly?

<1-100> Doors

<101> More than 100 doors

@

[# BUILDING CONTAMINANT SOURCE INFORMATION

[# INDOOR CONTAMINANTS

>ic3<

Is there ever any visible condensation on the windows or walls?

<1> Yes

<5> No [SKIP TO 'ic4']

@

>ic3a< [# ASKED IF 'ic3' IS YES]

Where (was the visible condensation)?

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

@1 Windows

@2 Walls

@3 Other

>ic3b< [# ASKED IF 'ic3' IS YES]

When (do you see condensation)?

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

@1 Nights

@2 Winter

@3 Other

>ic4<

Is there currently any visible water damage or mold?

<1> Yes

<5> No [SKIP TO 'ic5']

@

>ic4a< [# ASKED IF 'ic4' IS YES]

What is the approximate area, in square feet, where there is currently visible water damage or mold?

<1-1000> Square feet

<1001> Over 1,000 square feet

@

>ic4b< [# ASKED IF 'ic4' IS YES]

Please describe the location of the currently visible water damage or mold.

@1

@2

>ic5<

VERSION IF R REPORTS WATER DAMAGE ('ic4' IS 'YES')

In the past, has there been any OTHER water damage or mold?

VERSION FOR ALL OTHERS:

In the past, has there been any water damage or mold?

<1> Yes

<5> No [SKIP TO 'ic7']

@

>ic5a<

What was the approximate area in square feet of the area where there was visible water damage or mold in the past?

<1-1000> Square feet

<1001> Over 1,000 square feet

@

>ic5b<

Please describe the location of the water damage or mold.

@1

@2

>ic7< [# ONLY ASK FOR NON-MEDICAL OFFICES ('ci3' IS <1>)]

Are there any toasters, microwave ovens, or other cooking appliances used in the space?

<1> Yes

<5> No

@

[# SKIP TO 'fdA1']

>ic9< [# ONLY ASK FOR RESTAURANTS ('ci3' IS <3>)]

Are there any microwave ovens in use in the space?

<1> Yes

<5> No

@

>ic11<

Are ovens used in this space?

<1> Yes

<5> No [SKIP TO 'ic12']

@

>ic11a< [# ONLY ASK IF OVENS USED ('ic11' IS 'YES')]

What type of fuel is used for this/these ovens?

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

@1 Gas

@2 Electricity

@3 Other (SPECIFY)

>ic12<

Is grilling or roasting done?

<1> Yes

<5> No

@

>ic13<

Is oil frying done?

<1> Yes

<5> No

@

[# SKIP TO 'fdA1']

>ic15< [# ONLY ASK FOR FOOD STORES ('ci3' IS <4>)]

Are there any toasters, microwave ovens, or other cooking appliances used in the space?

<1> Yes

<5> No

@

>ic17<

Is film processing done there?

<1> Yes

<5> No

@

[# SKIP TO 'fdA1']

>ic19< [# ONLY ASK FOR RETAIL STORES ('ci3' IS <5>)]

Are there any toasters, microwave ovens, or other cooking appliances used in the space?

<1> Yes

<5> No

@

>ic21<

Is there a restaurant, cafe', or cafeteria in this space?

<1> Yes

<5> No [SKIP TO 'ic22']

@

>ic21a< [# ONLY ASK IF 'ci21' IS 'YES']

Are ovens used in this space?

<1> Yes

<5> No [SKIP TO 'ic21b']

@

>ic21aa< [# ONLY ASK IF 'ci21a' IS 'YES']

What type of fuel is used for this/these ovens?

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

@1 Gas

@2 Electricity

@3 Other (SPECIFY)

>ic21b<

Is grilling or roasting done?

<1> Yes

<5> No

@

>ic21c<

Is oil frying done?

<1> Yes

<5> No

@

>ic22<

What type of retail store is this?

<1> Multi-purpose (Target, Walmart, Kmart)

<2> Clothing store [SKIP TO 'fdA1']

<3> Shoe store [SKIP TO 'fdA1']

<4> Drug store [SKIP TO 'ic22c'] [# only ask ic22c

<5> Hardware [SKIP TO 'ic22b'] [# only ask ic22b

<6> Nursery/Gardening [SKIP TO 'fdA1']

<7> Furniture [SKIP TO 'ic22a'] [# only ask ic22c

<8> Home furnishings (linens, kitchenware) [SKIP TO 'fdA1']

<9> Flooring [SKIP TO 'fdA1']

<10> Bookstore [SKIP TO 'fdA1']

<11> Department store [SKIP TO 'fdA1']

<12> Other (SPECIFY) [SKIP TO 'fdA1']

@

>ic22a< [# ONLY ASK FOR MULTI-PURPOSE AND FURNITURE
STORES ('ic22' IS <1> OR <7>)]

Are solvents such as turpentine, ammonia, or acetone used
in this space?

<1> Yes

<5> No

@

>ic22b< [# ONLY ASK FOR MULTI-PURPOSE AND HARDWARE
STORES ('ic22' IS <1> OR <5>)]

Is grinding, sanding, or buffing performed?

<1> Yes

<5> No

@

>ic22c< [# ONLY ASK FOR MULTI-PURPOSE AND DRUG
STORES ('ic22' IS <1> OR <4>)]

Is film processing done there?

<1> Yes

<5> No

@

>ic22d< [# ONLY ASK FOR MULTI-PURPOSE STORES ('ic22' IS <1>)]

Are there tires stored there?

<1> Yes

<5> No

@

[# SKIP TO 'fdA1']

>ic23< [# ONLY ASK FOR HEALTH-CARE OFFICES ('ci3' IS <2>)]

Are there any toasters, microwave ovens, or other cooking
appliances used in the space?

<1> Yes

<5> No

@

>ic23a< [# ONLY ASK FOR HEALTH-CARE OFFICES ('ci3' IS <2>)]

Is there a restaurant, cafe', or cafeteria in this space?

<1> Yes

<5> No [SKIP TO 'ic23e']

@

>ic23b< [# ONLY ASK IF 'ic23a' IS 'YES']

Are ovens used in this space?

<1> Yes

<5> No [SKIP TO 'ic23c']

@

>ic23ba< [# ONLY ASK IF 'ic23b' IS 'YES']

What type of fuel is used for this/these ovens?

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

@1 Gas

@2 Electricity

@3 Other (SPECIFY)

>ic23c< [# ONLY ASK FOR HEALTH-CARE OFFICES ('ci3' IS <2>)]

Is grilling or roasting done?

<1> Yes

<5> No

@

>ic23d< [# ONLY ASK FOR HEALTH-CARE OFFICES ('ci3' IS <2>)]

Is oil frying done?

<1> Yes

<5> No

@

>ic23e< [# ONLY ASK FOR HEALTH-CARE OFFICES ('ci3' IS <2>)]

Are solvents such as turpentine, ammonia, or acetone used in this space?

<1> Yes

<5> No

@

>ic23f< [# ONLY ASK FOR HEALTH-CARE OFFICES ('ci3' IS <2>)]

Is grinding, sanding, or buffing performed?

<1> Yes

<5> No

@

>ic23g< [# ONLY ASK FOR HEALTH-CARE OFFICES ('ci3' IS <2>)]

Is film processing done there?

<1> Yes

<5> No

@

[# SKIP TO 'fdA1']

>ic24< [# ONLY ASK FOR LODGING BUSINESSES ('ci3' IS <6>)]

Are there any toasters, microwave ovens, or other cooking appliances used in the space?

<1> Yes

<5> No

@

>ic24a< [# ONLY ASK FOR LODGING BUSINESSES ('ci3' IS <6>)]

Is there a restaurant, cafe', or cafeteria in this space?

<1> Yes

<5> No [SKIP TO 'ic25']

@

>ic24b< [# ONLY ASK IF 'ic24a' IS 'YES']

Are ovens used in this space?

<1> Yes

<5> No

@

>ic24ba< [# ONLY ASK IF 'ic24b' IS 'YES']

What type of fuel is used for this/these ovens?

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

@1 Gas

@2 Electricity

@3 Other (SPECIFY)

>ic24c< [# ONLY ASK IF 'ic24a' IS 'YES']

Is grilling or roasting done?

<1> Yes

<5> No

@

>ic24d< [# ONLY ASK FOR LODGING BUSINESSES ('ci3' IS <6>)]

Is oil frying done?

<1> Yes

<5> No

@

[# SKIP TO 'fdA1']

>ic25< [# ONLY ASK FOR PUBLIC ASSEMBLY BUSINESSES ('ci3' IS <7>)]

Are there any toasters, microwave ovens, or other cooking appliances used in the space?

<1> Yes

<5> No

@

>ic25b< [# ONLY ASK FOR PUBLIC ASSEMBLY BUSINESSES ('ci3' IS <7>)]

Is there a restaurant, cafe', or cafeteria in this space?

<1> Yes

<5> No [SKIP TO 'fdA1']

@

>ic25c< [# ONLY ASK IF 'ic25b' IS 'YES']

Are ovens used in this space?

<1> Yes

<5> No [SKIP TO 'ic25d']

@

>ic25ca< [# ONLY ASK IF 'ic25c' IS 'YES']

What type of fuel is used for this/these ovens?

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

@1 Gas

@2 Electricity

@3 Other (SPECIFY)

>ic25d< [# ONLY ASK IF 'ic25b' IS 'YES']

Is grilling or roasting done?

<1> Yes

<5> No

@

>ic25e< [# ONLY ASK IF 'ic25b' IS 'YES']

Is oil frying done?

<1> Yes

<5> No

@

[# SKIP TO 'fdA1']

>ic26< [# ONLY ASK FOR AUTO REPAIR-NO GASOLINE SALES ('ci3h' IS <1>)]

Are there any toasters, microwave ovens, or other cooking appliances used in the space?

<1> Yes

<5> No

@

>ic26b< [# ONLY ASK FOR AUTO REPAIR-NO GASOLINE SALES ('ci3h' IS <1>)]

Are solvents such as turpentine, ammonia, or acetone used
in this space?

<1> Yes

<5> No

@

>ic26c< [# ONLY ASK FOR AUTO REPAIR-NO GASOLINE SALES ('ci3h' IS <1>)]

Is grinding, sanding, or buffing performed?

<1> Yes

<5> No

@

>ic26d< [# ONLY ASK FOR AUTO REPAIR-NO GASOLINE SALES ('ci3h' IS <1>)]

Are there tires stored in this space?

<1> Yes

<5> No

@

[# SKIP TO 'fdA1']

>ic27< [# ONLY ASK FOR GAS STATIONS ('ci3h' IS <2>)]

Are there any toasters, microwave ovens, or other cooking
appliances used in the space?

<1> Yes

<5> No

@

>ic27b< [# ONLY ASK FOR GAS STATIONS ('ci3h' IS <2>)]

Is there a restaurant, cafe, or cafeteria in this space?

<1> Yes

<5> No [SKIP TO 'ic27h']

@

>ic27c< [# ONLY ASK IF 'ic27b' IS 'YES']

Are ovens used in this space?

<1> Yes

<5> No [SKIP TO 'ic27d']

@

>ic27ca< [# ONLY ASK IF 'ic27c' IS 'YES']

What type of fuel is used for this/these ovens?

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

@1 Gas

@2 Electricity

@3 Other (SPECIFY)

>ic27d< [# ONLY ASK IF 'ic27b' IS 'YES']

Is grilling or roasting done?

<1> Yes

<5> No

@

>ic27e< [# ONLY ASK IF 'ic27b' IS 'YES']

Is oil frying done?

<1> Yes

<5> No

@

>ic27h< [# ONLY ASK FOR GAS STATIONS ('ci3h' IS <2>)]

Are there tires stored in this space?

<1> Yes

<5> No

@

>ic27j< [# ONLY ASK FOR GAS STATIONS ('ci3h' IS <2>)]

Are solvents such as turpentine, ammonia, or acetone used in this space?

<1> Yes

<5> No

@

>ic27i< [# ONLY ASK FOR GAS STATIONS ('ci3h' IS <2>)]

Is there a convenience store that is part of this gas station?

<1> Yes

<5> No [SKIP TO 'ic27k']

@

>ic27k< [# ONLY ASK FOR GAS STATIONS ('ci3h' IS <2>)]

Does this gas station perform automotive work?

<1> Yes

<5> No [SKIP TO 'fdA1']

@

>ic27l< [# ONLY ASK IF ('ic27k' IS 'YES')]

What automotive work is performed at this gas station?

(READ EACH AND CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

@1 Brakes

@2 Tires

@3 Body work or paint

@4 Oil changes

@5 General auto repair

@6 Cleaning or detailing

@7 Other (SPECIFY)

[# SKIP TO 'fdA1']

[# FOR SERVICE (NON-AUTOMOTIVE) BUSINESSES ONLY]

>ic28< [# ONLY ASK FOR NON-AUTOMOTIVE SERVICES ('ci3h' IS <3> OR <4>)]

Are there any toasters, microwave ovens, or other cooking appliances used in the space?

<1> Yes

<5> No

@

>ic28b< [# ONLY ASK FOR NON-AUTOMOTIVE SERVICES ('ci3h' IS <3> OR <4>)]

What service is provided at this business?

- <1> Dry cleaning
- <2> Nail salon
- <3> Hair salon/barber shop
- <4> Film processing
- <5> Shoe repair
- <6> Laundromat
- <7> Other (SPECIFY)

@

[# SKIP TO 'fdA1']

>ic30< [# ONLY ASK FOR ASSEMBLY/LIGHT MANUFACTURING ('ci3i' IS <1>)]

Are there any toasters, microwave ovens, or other cooking appliances used in the space?

- <1> Yes
- <5> No

@

>ic30b< [# ONLY ASK FOR ASSEMBLY/LIGHT MANUFACTURING ('ci3i' IS <1>)]

Are solvents such as turpentine, ammonia, or acetone used in this space?

- <1> Yes
- <5> No

@

>ic30c< [# ONLY ASK FOR ASSEMBLY/LIGHT MANUFACTURING ('ci3i' IS <1>)]

Is grinding, sanding, or buffing performed?

- <1> Yes
- <5> No

@

>ic30d< [# ONLY ASK FOR ASSEMBLY/LIGHT MANUFACTURING ('ci3i' IS <1>)]

Are X-rays or film processing done there?

- <1> Yes
- <5> No

@

>ic30e< [# ONLY ASK FOR ASSEMBLY/LIGHT MANUFACTURING ('ci3i' IS <1>)]

Are there tire stored in this space?

<1> Yes

<5> No

[# SKIP TO 'fdA1']

>ic31< [# ASKED FOR POLICE/FIRE/POST OFFICE ('ci3i' IS <2>, <3>, OR <4>)
OR OTHER BUSINESSES NOT OTHERWISE CLASSIFIED ('ci3' IS <10>)]

Are there any toasters, microwave ovens, or other cooking
appliances used in the space?

<1> Yes

<5> No

@

>ic31b< [# ASKED FOR POLICE/FIRE/POST OFFICE ('ci3i' IS <2>, <3>, OR <4>)
OR OTHER BUSINESSES NOT OTHERWISE CLASSIFIED ('ci3' IS <10>)]

Are ovens used in this space?

<1> Yes

<5> No [SKIP TO 'ic31c]

@

>ic31ba< [# ASKED FOR POLICE/FIRE/POST OFFICE ('ci3i' IS <2>, <3>, OR <4>)
OR OTHER BUSINESSES NOT OTHERWISE CLASSIFIED ('ci3' IS <10>)]

What type of fuel is used for this/these ovens?

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

@1 Gas

@2 Electricity

@3 Other (SPECIFY)

>ic31c< [# ASKED FOR POLICE/FIRE/POST OFFICE ('ci3i' IS <2>, <3>, OR <4>)
OR OTHER BUSINESSES NOT OTHERWISE CLASSIFIED ('ci3' IS <10>)]

Is grilling or roasting done?

<1> Yes

<5> No

@

>ic31d< [# ASKED FOR POLICE/FIRE/POST OFFICE ('ci3i' IS <2>, <3>, OR <4>)
OR OTHER BUSINESSES NOT OTHERWISE CLASSIFIED ('ci3' IS <10>)]

Is oil frying done?

<1> Yes

<5> No

@

[# FIRE DAMAGE

[# FIRST FLOOR 'A'

>fdA1<

Has there ever been any fire damage in the first floor space?

<1> Yes

<5> No [SKIP TO 'brA1']

@

>fdA1a< [# ASKED IF 'fdA1' IS 'YES']

In what month and year did the fire damage occur on the FIRST floor?

Month (1-12) @mo Year (1979-2008) @yr

[# Building Renovations

>brA1<

Has there been any interior painting done in the first floor
space in the last year?

<1> Yes

<5> No

@

>brA2<

Has new carpet been installed in the first floor space
in the last year?

<1> Yes

<5> No [SKIP TO 'brA3']

@

>brA2b< [# ASKED IF 'brA2' IS 'YES']

What type of carpet was installed? (READ CODES)

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

@1 Natural fiber carpet? (e.g., wool, sisal)

@2 Nylon?

@3 Olefin? (polypropylene)

>brA2bb< [# ASKED IF 'brA2' IS 'YES']

Does it have...

<1> ...styrene-butadiene backed carpet,

<2> CRI Green Label,

<3> CRI Green Label Plus,

<4> or some other kind? (SPECIFY)

@

>brA2c< [# ASKED IF 'brA2' IS 'YES']

What type of material is in the carpet pad, if there is a pad?

<1> Rubberized or resinated fiber

<2> Rubber and reinforced rubber

<3> Polyurethane foam

<4> There is NO carpet pad

<5> Something else (SPECIFY)

@

>brA3<

Has any new furniture been installed in the space in the last year?

<1> Yes

<5> No [SKIP TO 'csA1']

@

>brA3b< [# ASKED IF 'brA3b' IS 'YES']

What type of materials are in the furniture that was installed?

(READ EACH AND CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

@1 Solid wood (raw, wood finish or painted)

@2 Composite wood product with wood or synthetic veneer
(hidden surfaces unfinished composite wood)

@3 Fully encapsulated composite wood construction

@4 Metal and/or Plastic

@5 Other (SPECIFY)

```
[# CLEANING SCHEDULES
```

```
>csA1<
```

```
Is the space cleaned on a regular schedule?
```

```
<1> Yes
```

```
<5> No [SKIP TO 'csA2']
```

```
@
```

```
>csA1a< [# ASKED IF 'csA1' IS 'YES']
```

```
Is the cleaning done during occupied or unoccupied hours?
```

```
<1> Occupied
```

```
<2> Unoccupied
```

```
<3> Both
```

```
<4> Other
```

```
@
```

```
>csA1b< [# ASKED IF 'csA1' IS 'YES']
```

```
Is the cleaning done during the day or at night?
```

```
<1> Days
```

```
<2> Nights
```

```
<3> Both
```

```
<4> Other
```

```
@
```

```
>csA1c< [# ASKED IF 'csA1' IS 'YES']
```

```
Is the cleaning done by an outside contractor?
```

```
<1> Yes
```

```
<5> No
```

```
@
```

```
>csA1d< [# ASKED IF 'csA1' IS 'YES']
```

```
Are floors cleaned with a wet mop?
```

```
<1> Yes
```

```
<5> No
```

```
@1
```

[# IF YES]

How often are the floors cleaned with a wet mop?

- <1> Daily
- <2> Once a week
- <3> Twice a week
- <4> Every two weeks
- <5> Monthly
- <6> Other (SPECIFY)

@2

>csA1e<

Are the floors cleaned with a dry mop?

- <1> Yes
- <5> No

@1

[# IF YES]

How often are the floors cleaned with a dry mop?

- <1> Daily
- <2> Once a week
- <3> Twice a week
- <4> Every two weeks
- <5> Monthly
- <6> Other (SPECIFY)

@2

>csA1f<

Is the cleaning done with a vacuum?

- <1> Yes
- <5> No

@1

[# IF YES]

How often is the cleaning done with a vacuum?

- <1> Daily
- <2> Once a week
- <3> Twice a week
- <4> Every two weeks
- <5> Monthly
- <6> Other (SPECIFY)

@2

>csAlg<

Are any of the following cleaning materials used in
cleaning the space...

	(1) Daily	(4) Every 2 weeks
(1) Yes	(2) Once a week	(5) Monthly
(5) No	(3) Twice a week	(6) Other

@1 How about window cleaner?	[# IF YES] How often	@1a
@2 How about furniture cleaner?	[# IF YES] How often	@2a
@3 (How about) Floor or furniture wax?	[# IF YES] How often?	@3a
@4 (How about) bathroom cleaner?	[# IF YES] How often?	@4a
@5 (How about) Bleach?	[# IF YES] How often?	@5a
@6 (How about) Soap or detergent?	[# IF YES] How often?	@6a
@7 (How about) Carpet cleaners?	[# IF YES] How often?	@7a

>csAlh<

Are any other cleaning materials used?

<1> Yes
<5> No

@1

[# IF YES]

What other cleaning materials are used?

@2

>csAli< [# ASKED IF 'csAlg@3' IS 'YES']

Are propane floor buffers ever used?

<1> Yes
<5> No

@

>csAlq<

Is there any effort to use only "green" cleaning products?

<1> Yes
<5> No

@

>csA1r<

Where are cleaning materials kept on the first floor?

(READ CODES)	(1) Yes (5) No

...in the janitor's closet?	@1
...in another closet?	@2
...in a storage room?	@3
...anywhere else? (SPECIFY)	@4

>csA2<

Is pesticide regularly applied to either the interior or to the exterior to the space?

<1> Yes
<5> No [SKIP TO 'ivfA23']

@

>csA2a<

Who applies the pesticide?

(READ EACH AND CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

@1 Outside Contractor
@2 Building staff
@3 Employees
@4 Other

>csA2b<

How often is exterior pesticide applied?

Is it...

<1> weekly,
<2> monthly,
<3> quarterly,
<4> semi-annually, or
<5> some other time? (SPECIFY)

<6> Exterior pesticide NOT USED

@

>csA2d<

How often is INTERIOR pesticide applied?

Is it...

- <1> weekly,
- <2> monthly,
- <3> quarterly,
- <4> semi-annually, or
- <5> some other time? (SPECIFY)
- <6> Interior pesticide NOT USED [SKIP TO 'ivfA23']
- @
- <d,r> [SKIP TO 'ivfA23']

>csA2g<

Are the pesticides stored on-site or off-site?

- <1> On-site
- <5> Off-site [SKIP TO 'ivfA23']

>csA2h< [# ASKED IF 'csA2g' is ON-SITE]

Where are pesticides kept on the first floor?

(READ CODES)	(1) Yes (5) No

...in the janitor's closet?	@1
...in another closet?	@2
...in a storage room?	@3
...anywhere else? (SPECIFY)	@4

[# INDOOR VENTILATION FIXTURES]

>ivfA23<

Is any of the following space conditioning equipment used inside the first floor:

(READ EACH - CODE 1 IF USED - OTHERWISE CODE 5)

- @a Air cleaners?
- @b Space heaters?
- @c Humidifiers?
- @d Dehumidifiers?
- @e Desk fans?

>ivfA23a< [# ASKED IF 'ivfA23@a' IS 'YES']

How many air cleaners are used?

<1-200> Air cleaners: @

>ivfA23b< [# ASKED IF 'ivfA23@a' IS 'YES']

Various types of air cleaners could be used. Tell me which ones are used on this floor:

(READ EACH - CODE 1 IF USED - CODE 5 IF NOT USED)

@1 Mechanical?

@2 Contain pleated filters?

@3 Ionizers?

@4 Electrostatic precipitators?

@5 Ozone generators?

@6 Some other kind? (SPECIFY)

>ivfA25a< [# ASKED IF 'ivfA23@c' IS 'YES']

How many humidifiers are used?

<1-200> Humidifiers: @

>ivfA26a< [# ASKED IF 'ivfA23@d' IS 'YES']

How many dehumidifiers are used?

<1-200> Dehumidifiers: @

>ivfA27a< [# ASKED IF 'ivfA23@e' IS 'YES']

How many desk fans are used?

<1-200> Desk fans: @

[# ITEMS 'fdA1' - 'ivfA27a' ARE REPEATED FOR EACH FLOOR USED BY THE BUSINESS ('ci6').

[# SECOND FLOOR ITEM NAMES "B"

fdB1 fdB1a

brB1 brB2 brB2b brB2bb

brB2c brB3 brB3b

csB1 csB1a csB1b csB1c

csB1d csB1e csB1f csB1g

csB1h csB1i csB1q csB1r
 csB2 csB2a csB2b csB2d
 csB2g csB2h ivfB23

ivfB23a ivfB23b ivfB25a ivfB26a
 ivfB27a

[# THIRD FLOOR ITEM NAMES "C"
 fdC1 fdC1a

brC1 brC2 brC2b brC2bb
 brC2c brC3 brC3b

csC1 csC1a csC1b csC1c
 csC1d csC1e csC1f csC1g
 csC1h csC1i csC1q csC1r
 csC2 csC2a csC2b csC2d
 csC2g csC2h ivfC23

ivfC23a ivfC23b ivfC25a ivfC26a
 ivfC27a

[# OCCUPANT COMPLAINTS

>oc1<

Have there been any of the following occupant complaints
 related to the indoor environment? (READ CODES)

(1) Yes	(1) Once or twice,
(5) No	(2) Not very often,
	(3) Somewhat often,
	(4) Very often, or
	(5) Constantly?
-----	-----
@a Too hot?	[# IF YES] How often? @a1
@b Too cold?	[# IF YES] How often? @b1
@c Too drafty?	[# IF YES] How often? @c1
@d Too little air movement?	[# IF YES] How often? @d1
@e Odors?	[# IF YES] How often? @e1
@f Something else? (SPECIFY)	[# IF YES] How often? @f1

>ocly< [# ASKED IF R REPORTED ANY COMPLAINTS]

When did the last complaint occur?

<1> A few days ago
 <2> A few weeks ago
 <3> A few months ago
 <4> Years ago

@

>oclz<

Various types of corrective action could be taken. Please tell me which actions were taken in response to the complaints:

(READ EACH - CODE 1 IF TAKEN - CODE 5 IF NOT TAKEN)

- @1 no corrective action taken?
- @2 the building manager investigated?
- @3 an outside contractor investigated?
- @4 a supervisor investigated?
- @5 or something else? (SPECIFY)

>ob1<

Do you share your building with any other businesses?

- <1> Yes
- <5> No [SKIP TO 'ci4rsp']

@

>ob3<

[# TEXT FOR FIRST OTHER BUSINESS]

I'm going to ask you about each business in your building. Thinking about the first one, what kind of business is it?

[# TEXT FOR ALL OTHERS]

What kind of business is it?

- <1> Offices: Non-medical
- <2> Health Care
- <3> Restaurant/Food service
- <4> Food store
- <5> Retail store
- <6> Lodging (Hotels, Motels, Resorts)
- <7> Public assembly (Religious, Fitness, Theaters, Conference)
- <8> Services
- <9> Miscellaneous (Assembly/Manufacturing, Police/Fire, etc.)

<10> Other/Cannot decide main business/Won't say (SPECIFY)

@

>ob3a< [# ASKED IF 'ob3' IS <1>]

NON-MEDICAL OFFICES

INTERVIEWER: CODE SPECIFIC TYPE OF BUSINESS HERE

- <1> Data Processing/Computer Center
- <2> Lab/Research & Development facility
- <3> Other

@

>ob3b< [# ASKED IF 'ob3' IS <2>]

HEALTH CARE

INTERVIEWER: CODE SPECIFIC TYPE OF BUSINESS HERE

- <1> Hospital
- <2> Nursing Home
- <3> Dental Office
- <4> Orthodontist
- <5> Medical Office
- <6> Clinic/Outpatient
- <7> Other (SPECIFY)

@

>ob3c< [# ASKED IF 'ob3' IS <3>]

RESTAURANT/FOOD SERVICE

INTERVIEWER: CODE SPECIFIC TYPE OF BUSINESS HERE

- <1> Fast Food/Self-serve
- <2> Specialty/Novelty
- <3> Table Service
- <4> Bar/Tavern/Nightclub
- <5> Other (SPECIFY)

@

>ob3d< [# ASKED IF 'ob3' IS <4>]

FOOD STORE

INTERVIEWER: CODE SPECIFIC TYPE OF BUSINESS HERE

- <1> Supermarket
- <2> Small Grocery
- <3> Specialty/Ethnic
- <4> Convenience, no gasoline
- <5> Liquor
- <6> Other (SPECIFY)

@

>ob3e< [# ASKED IF 'ob3' IS <5>]

RETAIL

INTERVIEWER: CODE SPECIFIC TYPE OF BUSINESS HERE

- <1> Department/Variety
- <2> Warehouse/Club
- <3> Shop in enclosed mall
- <4> Shop in strip mall
- <5> Auto sales
- <6> Other (SPECIFY)

@

>ob3f< [# ASKED IF 'ob3' IS <6>]

LODGING

INTERVIEWER: CODE SPECIFIC TYPE OF BUSINESS HERE

- <1> Hotel
- <2> Motel
- <3> Resort
- <4> Other (SPECIFY)

@

>ob3g< [# ASKED IF 'ob3' IS <7>]

PUBLIC ASSEMBLY

INTERVIEWER: CODE SPECIFIC TYPE OF BUSINESS HERE

- <1> Religious, worship only
- <2> Religious, mixed-use
- <3> Health/Fitness
- <4> Movie Theater
- <5> Theater/Performing Arts
- <6> Library/Museum
- <7> Conference/Convention
- <8> Other (SPECIFY)

@

>ob3h< [# ASKED IF 'ob3' IS <8>]

SERVICE

INTERVIEWER: CODE SPECIFIC TYPE OF BUSINESS HERE

- <1> Auto Repair, no gasoline
- <2> Gas Station
- <3> Services, non-automotive
- <4> Other (SPECIFY)

@

>ob3i< [# ASKED IF 'ob3' IS <9>]

OTHER/MISCELLANEOUS

INTERVIEWER: CODE SPECIFIC TYPE OF BUSINESS HERE

- <1> Assembly/Light manufacturing
- <2> Police/Fire
- <3> Post Office
- <4> Other (SPECIFY)

@

>ob4<

Are there ANY OTHER businesses in this building?

- <1> Yes
- <5> No

@

[# COLLECT INFORMATION TO SEND SAQ

>ci4rsp<

We'd like to find out some more specific information about the operation and maintenance of the ventilation (HVAC) system used in your building.

We don't want do this now, but we would like to send a questionnaire in the mail.

Are you the best person to send it to?

- <1> Yes
- <5> No [SKIP TO 'ci4a1']

@

>rnam< [# IF R IS BEST CONTACT FOR SAQ, CONFIRM INFORMATION]

We have your name as: [fill rsnm]

Is that correct?

INTERVIEWER: Make changes below if needed, otherwise press
"Enter" to continue.

ENTER NAME: @

>raddr< [# IF R IS BEST CONTACT FOR SAQ, CONFIRM INFORMATION]

What address should we send your questionnaire to?

Street address @a
City, State @b ZIP: @c

>bphone< [# IF R IS BEST CONTACT FOR SAQ, CONFIRM INFORMATION]

CURRENT PHONE: (XXX) XXX-XXXX

Just in case we have trouble contacting you, is there a different
phone number where you would prefer to be called?

<1> Yes
<5> No

@a

[# IF YES]

ENTER PHONE NUMBER: @b

>ci4a1< [# IF R IS *NOT* BEST PERSON FOR SAQ, COLLECT INFORMATION
FOR BEST CONTACT]

What is the name of the person who can best answer questions about
the ventilation system and the operation and maintenance of the
ventilation system?

Name: @nm

Is this an outside contractor or in-house person?

<1> Outside contractor
<5> In-house person @b

>ci4a2< [# IF R IS *NOT* BEST PERSON FOR SAQ, COLLECT INFORMATION
FOR BEST CONTACT]

What is (his/her) mailing address?

Company name: @cmp [# IF OUTSIDE CONTRACTOR
Street address: @adr
City, State: @cs ZIP: @zip

What is (his/her) phone number? (This is in case we have trouble
contacting them through the mail.)

WORK phone: @wp CELL phone: @cp
Alternate phone: @ap

>ci4b1< [# COLLECT INFORMATION FOR SECOND SAQ CONTACT, IF POSSIBLE]

Who else can answer questions about the ventilation system?

INTERVIEWER: Enter "x" if Respondent cannot/will not provide
another name.

Name: @nm [# IF 'x' AT NAME, SKIP TO 'okny']

Is this an outside contractor or in-house person?

<1> Outside contractor
<5> In-house person @b

>ci4b2< [# COLLECT INFORMATION FOR SECOND SAQ CONTACT, IF POSSIBLE]

What is (his/her) mailing address?

Company name: @cmp [# IF OUTSIDE CONTRACTOR
Street address: @adr
City, State: @cs ZIP: @zip

What is (his/her) phone number?

WORK phone: @wp CELL phone: @cp
Alternate phone: @ap

>okny< [# GET CONSENT FOR "PHASE 2" AND COLLECT INFO IF NECESSARY]

Our field research team would like to contact you to set up a time for a free evaluation of the performance of your building's ventilation system. This information will be used by the state to understand the best ways to improve air quality and energy efficiency through future revisions to the state's building energy code.

May they contact you?

<1> Yes

<5> No [SKIP TO END]

@

>p2inf< [# IF R HAS ALREADY PROVIDED THEIR CONTACT INFORMATION, JUST CONFIRM INFORMATION HERE.

[# IF R IS BEST CONTACT FOR SAQ (ALREADY HAVE INFO)]

INTERVIEWER: Confirm contact information with respondent:

[# IF R IS NOT BEST CONTACT FOR SAQ (DO NOT HAVE INFO)]

Please tell me your name and mailing address, so we can send you a letter to schedule your evaluation.

Name: @a

Mailing Address: @b

City, State: @c ZIP: @d

>p2pnm<

CURRENT PHONE: (XXX) XXX-XXXX

Just in case we have trouble contacting you, is there a different phone number where you would prefer to be called?

<1> Yes

<5> No

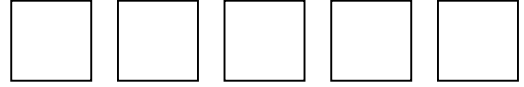
@a

[# IF YES]

ENTER PHONE NUMBER: @b

Appendix D

HVAC Questionnaire



Heating, Ventilation and Air Conditioning (HVAC) Survey

Conducted for the
California Energy Commission
by the
Survey Research Center, University of California at Berkeley

GENERAL DIRECTIONS:

- For most questions, there are *numbered answer categories*. For those questions, please check the answer category that best represents your answer or experience. Most questions are looking for a single answer. In those instances where there are instructions to “Check all that apply,” please check each answer category that applies to your (building’s) situation.
- If none of the answers are just right for you, please check the one that fits you the best.
- Other questions have blank spaces to allow you room to answer the question with a written response. If you need more room to answer these kinds of questions, please use the back of the page (be sure to indicate the question number it refers to).
- In some places there will be directions about which question to answer next. If there are no directions, then go to the very next question.

Please mail this survey back to us in the enclosed envelope. No stamps are needed.

Thank you for your assistance with this important project.

Please answer the questions in this survey with the following building address in mind:

BUILDING ADDRESS: _____

MAINTENANCE

1. Who does routine maintenance of the HVAC systems?

- ¹ ☐ Contractor
² ☐ Building manager
³ ☐ Janitorial staff
⁴ ☐ Other, specify: _____

2. What is the level of training of the person who does routine maintenance of the HVAC systems?

- ¹ ☐ None
² ☐ Certificate
³ ☐ Licensed
⁴ ☐ On the job
⁵ ☐ Other

SPACE INTERIOR FINISHES

Please answer the following questions regarding the interior finishes in this building's space. If there is more than one story, answer questions 3 to 5 for each floor.

3. What is the approximate distance from the floor to the ceiling in the space? If the space has a suspended ceiling, the distance to the suspended ceiling should be given. If the space has more than one ceiling height, give the distance that is predominant.

A. FLOOR #1	B. FLOOR #2	C. FLOOR #3
_____ Feet _____ Inches	_____ Feet _____ Inches	_____ Feet _____ Inches

4. Does the space have a suspended ceiling?

A. FLOOR #1	B. FLOOR #2	C. FLOOR #3
¹ <input type="checkbox"/> Yes ² <input type="checkbox"/> No [Please skip to next floor, or Q6 if no more floors]	¹ <input type="checkbox"/> Yes ² <input type="checkbox"/> No [Please skip to next floor, or Q6 if no more floors]	¹ <input type="checkbox"/> Yes ² <input type="checkbox"/> No [Please skip to Q6]

5. What is the approximate depth of the plenum, that is, the distance from the suspended ceiling to the floor above?

A. FLOOR #1	B. FLOOR #2	C. FLOOR #3
____ Feet ____ Inches	____ Feet ____ Inches	____ Feet ____ Inches

BUILDING EQUIPMENT

6. Besides the package rooftop units, are there any supplemental air conditioning devices?

¹ ☐ Yes

² ☐ No

7. Besides the package rooftop units, are there any supplemental heating devices?

¹ ☐ Yes

² ☐ No

8. Has the space ventilation system been reconfigured based on space use changes, including modifications of the air handler, ductwork or diffusers?

¹ ☐ Yes

² ☐ No

HVAC OPERATING SCHEDULE

9. What is the thermostat setting for cooling when the space is occupied?

Degrees: _____

10. What is the thermostat setting for cooling when the space is unoccupied?

Degrees: _____

11. What is the thermostat setting for heating when the space is occupied?

Degrees: _____

12. What is the thermostat setting for heating when the space is unoccupied?

Degrees: _____

13. A. Does the HVAC system start before occupants enter the space?
- ¹ ☐ Yes
- ² ☐ No [**Please skip to Q14A**]
- B. How long does the HVAC system come on before occupants enter the space?
- _____ Hours _____ Minutes
- C. Why does the HVAC system start before occupants enter the space?
- ¹ ☐ To heat or cool the space (morning warm-up or cool-down)
- ² ☐ To bring in outside air (morning purge)
- ³ ☐ Both
14. A. Does the HVAC system stay on after all occupants have left the space?
- ¹ ☐ Yes
- ² ☐ No [**Please skip to Q15**]
- B. How long does the HVAC system stay on after occupants have left?
- _____ Hours _____ Minutes
15. When the building is occupied, how is the fan controlled? (**Check all that apply**)
- ^a ☐ Always on
- ^b ☐ Always off
- ^c ☐ Cycles with heating or cooling
- ^d ☐ Manually operated
- ^e ☐ Scheduled timer
- ^f ☐ Occupancy sensor
- ^g ☐ Other, specify: _____

16. When the building is not occupied, how is the fan controlled? (**Check all that apply**)

- ^a ☐ Always on
- ^b ☐ Always off
- ^c ☐ Cycles with heating or cooling
- ^d ☐ Manually operated
- ^e ☐ Scheduled timer
- ^f ☐ Occupancy sensor
- ^g ☐ Other, specify: _____

INDOOR VENTILATION FIXTURES

17. How many air supply vents are in the entire building?

Air supply vents: _____

18. Are there air supply vents in the ceiling?

- ¹ ☐ Yes
- ² ☐ No

19. A. Are there air supply vents on the walls?

- ¹ ☐ Yes
- ² ☐ No [**Please skip to Q20A**]

B. Where are the supply vents located on the walls? (**Check all that apply**)

- ¹ ☐ Upper half
- ² ☐ Lower half
- ³ ☐ In the middle
- ⁴ ☐ Multiple heights

20. A. Are there air supply vents on the floor?

- ¹ ☐ Yes
- ² ☐ No [**Please skip to Q21**]

Question 20 (continued)

B. What types of air supply vents are in the floor? Are there fan coil units or unit ventilators?

- ¹ ☐ Yes
- ² ☐ No
- ³ ☐ Don't know

21. What kind of air supply vent is the **primary** type? (**Check only one**)

- ¹ ☐ Ceiling diffusers
- ² ☐ Upper half of wall
- ³ ☐ Lower half of wall
- ⁴ ☐ Middle of wall
- ⁵ ☐ Floor registers
- ⁶ ☐ Fan coil units or unit ventilators
- ⁷ ☐ Other, specify: _____

22. How many return vents are in the entire building space?

- ¹ ☐ One return vent [**Please skip to Q24**]
- ² ☐ Return vents: _____

23. What kind of return vent is the primary vent type? (**Check only one**)

- ¹ ☐ Ceiling grille
- ² ☐ High sidewall grille
- ³ ☐ Low sidewall grille
- ⁴ ☐ Floor grille
- ⁵ ☐ Other, specify: _____

HVAC SYSTEM DESCRIPTION – OUTDOOR AIR INTAKE CONTROL

24. What is the outdoor air control strategy for the air handling unit(s) serving the majority of occupants in the space?

- ¹ ☐ 100% outdoor air intake
- ² ☐ Fixed minimum outdoor air intake
- ³ ☐ Economizer cycle
- ⁴ ☐ Enthalpy economizer cycle
- ⁵ ☐ Something else, specify: _____

25. What is the method used by the air handling unit in maintaining a minimum outdoor air flow rate?

- ¹ ☐ Fixed damper position
- ² ☐ Supply/return fan tracking
- ³ ☐ Intake airflow monitoring
- ⁴ ☐ Demand Controlled Ventilation
- ⁵ ☐ Something else, specify: _____

26. What is the minimum outdoor air setting (in percent)?

_____ %

AIR HANDLING UNIT SPECIFICATIONS

27. What is the make and model number of the 3 ventilation units that have the greatest airflow capacity?

A. Unit 1: MAKE: _____ MODEL: _____

B. Unit 2: MAKE: _____ MODEL: _____

C. Unit 3: MAKE: _____ MODEL: _____

EXHAUST FAN SPECIFICATIONS

28. A. How many exhaust fans, if any, operate in the space?

- ⁰ ☐ None **[Please skip to Q29]**
- ¹ ☐ One exhaust fan
- ² ☐ _____ exhaust fans

Question 28 (continued)

- B.** We would like to ask you a couple of questions about up to five of those exhaust fans. For each fan, please indicate the airflow rate, in cubic feet per minute, of the exhaust fan; the area, in square feet served by the fan, the control method for each exhaust fan (manual, time of day, temperature, pressure, or something else), and whether or not makeup air is supplied?
(NOTE: Use a separate column for each exhaust fan. Answers should be given about the highest flow rate exhaust fans.)

		Exhaust fan 1	Exhaust fan 2	Exhaust fan 3	Exhaust fan 4	Exhaust fan 5
Airflow rate:	Cubic feet/min	_____	_____	_____	_____	_____
Area:	Square feet	_____	_____	_____	_____	_____
Control:	Manual	Yes No	Yes No	Yes No	Yes No	Yes No
	Time of day	Yes No	Yes No	Yes No	Yes No	Yes No
	Temperature	Yes No	Yes No	Yes No	Yes No	Yes No
	Pressure	Yes No	Yes No	Yes No	Yes No	Yes No
	Other, specify	_____	_____	_____	_____	_____
Makeup air:	Supplied?	Yes No	Yes No	Yes No	Yes No	Yes No

FILTRATION AND AIR CLEANING SYSTEMS

- 29.** How many package rooftop HVAC units are there for this building?

Number of HVAC units: _____

For, at most, three of the largest package rooftop units, we would like to know about the filtration or air-cleaning device that is installed in each.

ROOFTOP UNIT # 1

30. A. First, thinking about rooftop unit #1, what type of filtration or air cleaning device is installed in the air handling unit?

- ¹ ☐ A particle filter
- ² ☐ Electronic air cleaner **[Please skip to Q30J on page 9]**
- ³ ☐ Gaseous filter **[Please skip to Q30M on page 10]**
- ⁴ ☐ Multi-function air cleaning unit, such as in-duct unit

B. What is the make and model number of the particle filter?

- ¹ ☐ **If unknown, skip to Q30C**

MAKE: _____ MODEL: _____

C. What is the rating of the filtration or air cleaning device?

- ¹ ☐ ASHRAE Standard 52 rating (MERV): _____
- ² ☐ DOP efficiency rating: _____%

D. What is the total area of the filter bank?

Square feet: _____

E. What is the filter media?

- ¹ ☐ Polyester
- ² ☐ Fiberglass
- ³ ☐ Carbon
- ⁴ ☐ Other; specify: _____

F. Is the filter a panel or roll type?

- ¹ ☐ Panel
- ² ☐ Roll **[Please skip to Q30I]**

Question 30 (continued)

30. G. Is the panel filter dry or viscous?

¹ ☐ Dry

² ☐ Viscous impingement [**Please skip to ROOFTOP UNIT #2 on page 10 OR Q33 on page 15 if no others]**

H. Is the dry panel filter a flat panel, pleated, bag, or HEPA?
(Check all that apply)

¹ ☐ Flat panel [**Please skip to ROOFTOP UNIT #2 on page 10 or Q33 on page 15 if no others]**

² ☐ Pleated [**Please skip to ROOFTOP UNIT #2 on page 10 or Q33 on page 15 if no others]**

³ ☐ Bag [**Please skip to ROOFTOP UNIT #2 on page 10 or Q33 on page 15 if no others]**

⁴ ☐ HEPA [**Please skip to ROOFTOP UNIT #2 on page 10 or Q33 on page 15 if no others]**

I. Is the roll filter dry or viscous impingement?

¹ ☐ Dry [**Please skip to ROOFTOP UNIT #2 on page 10 or Q33 on page 15 if no others]**

² ☐ Viscous impingement [**Please skip to ROOFTOP UNIT #2 on page 10 OR Q33 on page 15 if no others]**

J. What type of “electronic” filtration device is used?

¹ ☐ Ionizer

² ☐ Electrostatic precipitator

³ ☐ Ultraviolet

⁴ ☐ Ozone generator

⁵ ☐ Other, specify: _____

K. What is the make and model number of the electronic filtration device?

MAKE: _____ MODEL: _____

Question 30 (continued)

- L.** What is the total area of the filter bank?

Square feet: _____

[Please skip to ROOFTOP UNIT #2 below or Q33 on page 15 if no others]

- M.** What is the total face area of the filter bank?

Square feet: _____

- N.** What is the depth of the media bed?

Square feet: _____

- O.** What is the media utilized in the air cleaning?

[Please skip to ROOFTOP UNIT #2 below or Q33 on page 15 if no others]

ROOFTOP UNIT # 2

- 31. A.** Next, thinking about rooftop unit #2, what type of filtration or air cleaning device is installed in the air handling unit?

¹ ☐ A particle filter

² ☐ Electronic air cleaner **[Please skip to Q31J on page 12]**

³ ☐ Gaseous filter **[Please skip to Q31M on page 12]**

⁴ ☐ Multi-function air cleaning unit, such as in-duct unit

- B.** What is the make and model number of the filtration or air cleaning device?

¹ ☐ **If unknown, skip to Q31C**

MAKE: _____ MODEL: _____

- C.** What is the rating of the filtration or air cleaning device?

¹ ☐ ASHRAE Standard 52 rating (MERV): _____

² ☐ DOP efficiency rating: _____ %

Question 31 (continued)

D. What is the total area of the filter bank?

Square feet: _____

E. What is the filter media?

¹ ☐ Polyester

² ☐ Fiberglass

³ ☐ Carbon

⁴ ☐ Other; specify: _____

F. Is the filter a panel or roll type?

¹ ☐ Panel

² ☐ Roll [**Please skip to Q31I**]

G. Is the panel filter dry or viscous?

¹ ☐ Dry

² ☐ Viscous impingement [**Please skip to ROOFTOP UNIT #3 on page 13 or Q33 on page 15 if no others**]

H. Is the dry panel filter a flat panel, pleated, bag, or HEPA?
(**Check all that apply**)

¹ ☐ Flat panel [**Please skip to ROOFTOP UNIT #3 on page 13 or Q33 on page 15 if no others**]

² ☐ Pleated [**Please skip to ROOFTOP UNIT #3 on page 13 or Q33 on page 15 if no others**]

³ ☐ Bag [**Please skip to ROOFTOP UNIT #3 on page 13 or Q33 on page 15 if no others**]

⁴ ☐ HEPA [**Please skip to ROOFTOP UNIT #3 on page 13 or Q33 on page 15 if no others**]

I. Is the roll filter dry or viscous impingement?

¹ ☐ Dry [**Please skip to ROOFTOP UNIT #3 on page 13 or Q33 on page 14 if no others**]

² ☐ Viscous impingement [**Please skip to ROOFTOP UNIT#3 on page 13 or Q33 on page 14 if no others**]

Question 31 (continued)

J. What type of “electronic” filtration device is used?

- ¹ ☐ Ionizer
- ² ☐ Electrostatic precipitator
- ³ ☐ Ultraviolet
- ⁴ ☐ Ozone generator
- ⁵ ☐ Other, specify: _____

K. What is the make and model number of the electronic filtration device?

MAKE: _____ MODEL: _____

L. What is the total area of the filter bank?

Square feet: _____

[Please skip to ROOFTOP UNIT #3 on page 13 or Q33 on page 15 if no others]

M. What is the total face area of the filter bank?

Square feet: _____

N. What is the depth of the media bed?

Square feet: _____

O. What is the media utilized in the air cleaning?

[Please skip to ROOFTOP UNIT #3 on page 13 or Q33 on page 15 if no others]

ROOFTOP UNIT # 3

32. A. Next, thinking about rooftop unit #3, what type of filtration or air cleaning device is installed in the air handling unit?

- ¹ ☐ A particle filter
- ² ☐ Electronic air cleaner **[Please skip to Q32J on page 14]**
- ³ ☐ Gaseous filter **[Please skip to Q32M on page 14]**
- ⁴ ☐ Multi-function air cleaning unit, such as in-duct unit

B. What is the make and model number of the filtration or air cleaning device?

- ¹ ☐ **If unknown, skip to Q32C**

MAKE: _____ MODEL: _____

C. What is the rating of the filtration or air cleaning device?

- ¹ ☐ ASHRAE Standard 52 rating (MERV): _____
- ² ☐ DOP efficiency rating: _____%

D. What is the total area of the filter bank?

Square feet: _____

E. What is the filter media?

- ¹ ☐ Polyester
- ² ☐ Fiberglass
- ³ ☐ Carbon
- ⁴ ☐ Other; specify: _____

F. Is the filter a panel or roll type?

- ¹ ☐ Panel
- ² ☐ Roll **[Please skip to Q32I on page 14]**

G. Is the panel filter dry or viscous?

- ¹ ☐ Dry
- ² ☐ Viscous impingement **[Please skip to Q33 on page 15]**

Question 32 (continued)

H. Is the dry panel filter a flat panel, pleated, bag, or HEPA? **(Check all that apply)**

- ¹ ☐ Flat panel **[Please skip to Q33 on page 15]**
- ² ☐ Pleated **[Please skip to Q33 on page 15]**
- ³ ☐ Bag **[Please skip to Q33 on page 15]**
- ⁴ ☐ HEPA **[Please skip to Q33 on page 15]**

I. Is the roll filter dry or viscous impingement?

- ¹ ☐ Dry **[Please skip to Q33 on page 15]**
- ² ☐ Viscous impingement **[Please skip to Q33 on page 15]**

J. What type of “electronic” filtration device is used?

- ¹ ☐ Ionizer
- ² ☐ Electrostatic precipitator
- ³ ☐ Ultraviolet
- ⁴ ☐ Ozone generator
- ⁵ ☐ Other, specify: _____

K. What is the make and model number of the electronic filtration device?

MAKE: _____ MODEL: _____

L. What is the total area of the filter bank?

Square feet: _____
[Please skip to Q33 on page 15]

M. What is the total face area of the filter bank?

Square feet: _____

N. What is the depth of the media bed?

Square feet: _____

O. What is the media utilized in the air cleaning?

AIR WASHERS

33. Is there an air washer system in the package rooftop unit?

¹ ☐ Yes

² ☐ No

HUMIDIFICATION SYSTEMS

34. (Is the package rooftop unit/ Are any of the package rooftop units) equipped with a humidification system?

¹ ☐ Yes

² ☐ No

AIR HANDLER INSPECTIONS

35. A. (Is the package rooftop unit/Are the package rooftop units) inspected on a regular schedule, have they been inspected but not on a regular basis, or have they not been inspected?

¹ ☐ Yes, inspected on a regular schedule

² ☐ Inspected, but not on regular basis **[Please skip to Instruction box below]**

³ ☐ Not inspected **[Please skip to Instruction box below]**

B. What is the frequency of inspections (answer in months)?

Months between inspections: _____

Instruction box: Answer Q36 only if use particulate filters. Otherwise, please skip to next instruction box on page 16.

36. A. (Is the particulate filter/ Are the particulate filters) replaced on a regular schedule, have they been replaced but not on a regular basis, or have they not been replaced?

¹ ☐ Yes, replaced on a regular schedule

² ☐ Replaced, but not on regular basis **[Please skip to Q37A]**

³ ☐ Not replaced **[Please skip to Q37A]**

Question 36 (continued)

- B.** What is the frequency of replacement (answer in months)?

Months between replacement: _____

Instruction box: Answer Q37 only if have electronic filters. Otherwise, please skip to Q46 on page 18.

- 37. A.** (Is the electronic filter/ Are the electronic filters) inspected on a regular schedule, have they been inspected but not on a regular basis, or have they not been inspected?

- ¹ ☐ Yes, inspected on a regular schedule
² ☐ Inspected, but not on regular basis **[Please skip to Q38]**
³ ☐ Not inspected **[Please skip to Q38]**

- B.** What is the frequency of inspections (answer in months)?

Months between inspections: _____

- 38. A.** (Is the electronic filter/Are the electronic filters) cleaned on a regular schedule, have they been cleaned but not on a regular basis, or have they not been cleaned?

- ¹ ☐ Yes, cleaned on a regular schedule
² ☐ Cleaned, but not on regular basis **[Please skip to Q39]**
³ ☐ Not cleaned **[Please skip to Q39]**

- B.** What is the frequency of cleanings (answer in months)?

Months between cleanings: _____

- 39. A.** Are the heating and cooling coils inspected on a regular schedule, have they been inspected but not on a regular basis, or have they not been inspected?

- ¹ ☐ Yes, inspected on a regular schedule
² ☐ Inspected, but not on regular basis **[Please skip to Q40]**
³ ☐ Not inspected **[Please skip to Q40]**

- B.** What is the frequency of inspections (answer in months)?

Months between inspections _____

40. A. Are the heating and cooling coils cleaned on a regular schedule, have they been cleaned but not on a regular basis, or have they not been cleaned?

- ¹ ☐ Yes, cleaned on a regular schedule
² ☐ Cleaned, but not on regular basis **[Please skip to Q41]**
³ ☐ Not cleaned **[Please skip to Q41]**

- B. What is the frequency of cleanings (answer in months)?

Months between cleanings _____

41. A. Are the drain pans inspected on a regular schedule, have they been inspected but not on a regular basis, or have they not been inspected?

- ¹ ☐ Yes, inspected on a regular schedule
² ☐ Inspected, but not on regular basis **[Please skip to Q42]**
³ ☐ Not inspected **[Please skip to Q42]**

- B. What is the frequency of inspections?

Months between inspections _____ **[Please skip to Q43]**

42. A. Are the drain pans cleaned on a regular schedule, have they been cleaned but not on a regular basis, or have they not been cleaned?

- ¹ ☐ Yes, cleaned on a regular schedule
² ☐ Cleaned, but not on regular basis **[Please skip to Q44]**
³ ☐ Not cleaned **[Please skip to Q43]**

- B. What is the frequency of cleanings?

Months between cleanings _____

43. How often is the drain line tested?

Months between inspection _____

44. A. Is the ductwork inspected on a regular schedule, has it been inspected but not on a regular basis, or has it not been inspected?

- ¹ ☐ Yes, inspected on a regular schedule
² ☐ Inspected, but not on regular basis **[Please skip to Q45]**
³ ☐ Not inspected **[Please skip to Q45]**

- B. What is the frequency of inspections (answer in months)?

Months between inspections _____

45. A. Has the ductwork been cleaned on a regular schedule, has it been cleaned but not on a regular basis, or has it not been cleaned?

- ¹ ☐ Yes, cleaned on a regular schedule
² ☐ Cleaned, but not on regular basis **[Please skip to Q46]**
³ ☐ Not cleaned **[Please skip to Q46]**

- B. What is the frequency of cleanings (answer in months)?

Months between cleanings _____

TESTING AND BALANCING

46. A. (Is the package rooftop unit/ Are the package rooftop units) tested and balanced on a regular schedule, have they been tested and balanced but not on a regular basis, or have they not been tested and balanced?

- ¹ ☐ Yes, tested and balanced on a regular schedule
² ☐ Tested and balanced, but not on regular basis **[Please skip to final instruction box, bottom of page]**
³ ☐ Not tested and balanced **[Please skip to final instruction box, bottom of page]**

- B. What is the frequency of testing and balancing (answer in months)?

Months between testings and balancings _____

Final Instruction Box: Please return the questionnaire in the envelope provided. No postage is needed.

Thank you for your assistance!

Appendix E.

Codebook and Frequencies for the Indoor Environmental Quality and HVAC Survey of Small and Medium Commercial Buildings (SMCB)

University of California

Berkeley

CODEBOOK

for the

**INDOOR ENVIRONMENTAL QUALITY AND HVAC SURVEY OF
SMALL AND MEDIUM COMMERCIAL BUILDINGS (SMCB)**

(476 completed cases)

Sponsor: California Air Resources Board (CARB)

Data Collection Period: June 6, 2008 - May 1, 2009

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INTRODUCTION

The Indoor Environmental Quality and HVAC Survey of Small and Medium Commercial Buildings (SMCB) study collected data from telephone interviews with managers of small and medium size commercial buildings in California to develop statewide information on ventilation characteristics of SMCBs, including the design and performance specifications for heating, ventilating, and air-conditioning (HVAC) systems, for HVAC control systems, for natural ventilation provisions, and for air filtration systems.

Buildings were excluded from the study if they were 4 or more floors tall, did not have a rooftop HVAC system, were over 50,000 square feet, were under 500 square feet, or were built before 1978.

This project set out to accomplish the following:

- Develop statewide survey information on the operation and maintenance characteristics of SMCB, including commissioning, inspection, testing, maintenance staff training, cleaning practices, and repair of HVAC, filtration, and control systems,

- Develop statewide survey information on basic construction details of SMCBs (eg. woodframe, masonry, steel) and of parameters affecting the air tightness of the building shell.

- Obtain statewide survey data on indoor air quality (IAQ) characteristics of SMCB, including potential sources of indoor pollutants, sources of nearby point emission sources (eg. nearby dry cleaners), histories of moisture problems, and to the extent feasible, occupant complaints, and Cal/OSHA inspections,.

- Characterize remedial actions that have been taken in SMCB in response to IAQ complaints or moisture problems, or to prevent IAQ problems. Assess the correlation of SMCB building and/or equipment characteristics with the potential for poor ventilation and IAQ.

- Obtain the data needed to identify the frequency distribution of various buildings, building use types, indoor occupancy and source types, and ventilation types in SMCBs, in order to help advise future research.

The CARB-SMCB study was funded and supported by the California Air Resources Board (CARB). The Survey Research Center at the University of California, Berkeley conducted the survey portion of the project.

CASE IDENTIFICATION

CASEID: Case identification number

476 cases (Range of valid codes: 11012-55022)

Record/columns: 1/1-5

region: Region

Location of business in the state of California.

S_Coast = Southern Coastal
 N_Coast = Northern Coastal
 S_Inland = Southern Inland
 C_Inland = Central Inland
 N_Inland = Northern Inland

%	N	VALUE	LABEL
17.4	83	1	S_Coast
16.8	80	2	N_Coast
21.4	102	3	S_Inland
23.1	110	4	C_Inland
21.2	101	5	N_Inland

 100.0 476 cases

Record/column: 1/54

size: Business size (no. of employees)

Business size determined by number of employees.

%	N	VALUE	LABEL
41.6	198	1	Small (3-50)
48.1	229	2	Med (51-200)
10.3	49	3	Large (201+)

 100.0 476 cases

Record/column: 1/55

samp: Sample type (size + region)

The sample type was created by combining the business size ('size') with it's location in the state ('region').

%	N	VALUE	LABEL
4.4	21	11	S_Coast_sm
9.9	47	12	S_Coast_md
3.2	15	13	S_Coast_lg
6.7	32	21	N_Coast_sm
8.0	38	22	N_Coast_md
2.1	10	23	N_Coast_lg
6.9	33	31	S_Inland_sm
11.8	56	32	S_Inland_md
2.7	13	33	S_Inland_lg
10.5	50	41	C_Inland_sm
11.1	53	42	C_Inland_md
1.5	7	43	C_Inland_lg
13.0	62	51	N_Inland_sm
7.4	35	52	N_Inland_md
0.8	4	53	N_Inland_lg
-----	---		
100.0	476	cases	

Record/columns: 1/50-51

TYPE OF BUSINESS

ci3: Main type of business

What is the MAIN business carried out in this building?

%	N	VALUE	LABEL
24.4	116	1	Non-medical
10.3	49	2	Health Care
10.7	51	3	Rest./Food serv.
2.3	11	4	Food store
12.6	60	5	Retail store
1.1	5	6	Lodging
4.0	19	7	Public assembly
15.8	75	8	Services
10.1	48	9	Miscellaneous
8.8	42	10	Other (SPECIFY)
-----	---		
100.0	476	cases	

Record/columns: 1/82-83

ci3a: Business type: non-medical offices

IF NON-MEDICAL OFFICES ('ci3' eq 1):

INTERVIEWER: CODE SPECIFIC TYPE OF BUSINESS HERE

%	N	VALUE	LABEL
1.7	2	1	Data Processing/Computer Center
98.3	114	3	Other
	360	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 1/84

ci3b: Business type: health care

IF HEALTH CARE OFFICES ('ci3' eq 2):

INTERVIEWER: CODE SPECIFIC TYPE OF BUSINESS HERE

%	N	VALUE	LABEL
8.2	4	1	Hospital
8.2	4	2	Nursing Home
14.3	7	3	Dental Office
2.0	1	4	Orthodontist
28.6	14	5	Medical Office
22.4	11	6	Clinic/Outpatient
16.3	8	7	Other (SPECIFY)
	427	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 1/85

ci3c: Business type: food service

IF RESTAURANT/FOOD SERVICE ('ci3' eq 3):

INTERVIEWER: CODE SPECIFIC TYPE OF BUSINESS HERE

%	N	VALUE	LABEL
31.4	16	1	Fast Food/Self-serve
5.9	3	2	Specialty/Novelty
60.8	31	3	Table Service
2.0	1	5	Other (SPECIFY)
	425	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 1/86

ci3d: Business type: food store

IF FOOD STORE ('ci3' eq 4):

INTERVIEWER: CODE SPECIFIC TYPE OF BUSINESS HERE

%	N	VALUE	LABEL
45.5	5	1	Supermarket
18.2	2	3	Specialty/Ethnic
9.1	1	4	Convenience, no gasoline
27.3	3	6	Other (SPECIFY)
	465	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 1/87

ci3e: Business type: retail

IF RETAIL ('ci3' eq 5):

INTERVIEWER: CODE SPECIFIC TYPE OF BUSINESS HERE

%	N	VALUE	LABEL
15.0	9	1	Department/Variety
1.7	1	2	Warehouse/Club
21.7	13	4	Shop in strip mall
23.3	14	5	Auto sales
38.3	23	6	Other (SPECIFY)
	416	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 1/88

ci3f: Business type: lodging

IF LODGING ('ci3' eq 6):

INTERVIEWER: CODE SPECIFIC TYPE OF BUSINESS HERE

%	N	VALUE	LABEL
80.0	4	1	Hotel
20.0	1	3	Resort
	471	.	Blank - DNA

100.0 476 cases

Record/column: 1/89

ci3g: Business type: public assembly

IF PUBLIC ASSEMBLY ('ci3' eq 7):

INTERVIEWER: CODE SPECIFIC TYPE OF BUSINESS HERE

%	N	VALUE	LABEL
5.3	1	1	Religious, worship only
31.6	6	2	Religious, mixed-use
15.8	3	3	Health/Fitness
5.3	1	4	Movie Theater
5.3	1	5	Theater/Performing Arts
36.8	7	8	Other (SPECIFY)
	457	.	Blank - DNA

100.0 476 cases

Record/columns: 1/90-91

ci3h: Business type: service

IF SERVICES ('ci3' eq 8):

INTERVIEWER: CODE SPECIFIC TYPE OF BUSINESS HERE

%	N	VALUE	LABEL
6.7	5	1	Auto Repair, no gasoline
4.0	3	2	Gas Station
41.3	31	3	Services, non-automotive
48.0	36	4	Other (SPECIFY)
	401	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 1/92

ci3i: Business type: other/misc

IF OTHER/MISCELLANEOUS ('ci3' eq 9):

INTERVIEWER: CODE SPECIFIC TYPE OF BUSINESS HERE

%	N	VALUE	LABEL
10.4	5	1	Assembly/Light manufacturing
39.6	19	2	Police/Fire
50.0	24	4	Other (SPECIFY)
	428	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 1/93

ci5: Space leased or owned

Is the space leased or owned by the business owner?

%	N	VALUE	LABEL
53.2	249	1	Leased
46.8	219	5	Owned
	7	8	DK
	1	9	Ref/MD

----- ---
100.0 476 cases

Record/column: 1/94

ci6: Number of floors used by business

You said your building has [1-3] stories.

How many stories does your business actually use?

%	N	VALUE	LABEL
75.8	361	1	
21.2	101	2	
2.9	14	3	

----- ---
100.0 476 cases

Record/column: 1/95

BUILDING DESCRIPTION

bd1: Year building completed

In what year was this building's construction COMPLETED?

%	N	VALUE	LABEL
3.3	12	1979	
4.7	17	1980	
2.8	10	1981	
3.6	13	1982	
3.3	12	1983	
3.0	11	1984	
5.5	20	1985	
3.9	14	1986	
1.9	7	1987	
3.9	14	1988	
5.8	21	1989	
2.8	10	1990	
3.0	11	1991	
2.5	9	1992	
2.8	10	1993	
2.8	10	1994	
2.5	9	1995	
2.5	9	1996	
2.5	9	1997	
4.4	16	1998	
2.2	8	1999	
4.7	17	2000	
3.3	12	2001	
4.1	15	2002	
5.5	20	2003	
4.7	17	2004	
1.1	4	2005	
3.0	11	2006	
1.9	7	2007	
2.2	8	2008	
	113	9998	DK
-----	----		
100.0	476	cases	

Record/columns: 1/96-99

bd2: Building ever renovated

Has there been a major renovation or addition since the completion of the original building?

%	N	VALUE	LABEL
21.9	100	1	Yes
78.1	356	5	No (SKIP TO 'sifA7')
	20	8	DK (SKIP TO 'sifA7')
-----	---		
100.0	476		cases

Record/column: 1/100

bd2a: Year of renovation

QUESTION ASKED IF BUILDING EVER RENOVATED ('bd2' eq 1):

In what year was the last major renovation or addition?

%	N	VALUE	LABEL
1.1	1	1986	
1.1	1	1987	
1.1	1	1988	
1.1	1	1990	
1.1	1	1992	
1.1	1	1993	
1.1	1	1994	
1.1	1	1995	
3.2	3	1997	
4.3	4	1998	
4.3	4	1999	
6.5	6	2000	
4.3	4	2001	
9.7	9	2002	
5.4	5	2003	
3.2	3	2004	
3.2	3	2005	
17.2	16	2006	
14.0	13	2007	
16.1	15	2008	
	7	9998	DK
	376	.	Blank - DNA
-----	---		
100.0	476		cases

Record/columns: 1/101-104

bd2b_1: Renovation: new ventilation system

QUESTION ASKED IF BUILDING EVER RENOVATED ('bd2' eq 1
AND 'bd2a' lt 9998):

Please describe the renovation, especially any changes to the ventilation system that might affect ventilation rates, such as new windows or doors, a new HVAC system, weatherizing or a large change in volume of the space. Choose from the following list:

(READ EACH AND CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

New ventilation system

%	N	VALUE	LABEL
39.6	36	1	Yes
60.4	55	5	No
	2	8	DK
	383	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 1/105

bd2b_2: Renovation: new windows/doors

QUESTION ASKED IF BUILDING EVER RENOVATED ('bd2' eq 1):

New windows and/or doors

(See 'bd2b_1' for full text of this form.)

%	N	VALUE	LABEL
42.4	39	1	Yes
57.6	53	5	No
	1	8	DK
	383	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 1/106

bd2b_3: Renovation: weatherization

QUESTION ASKED IF BUILDING EVER RENOVATED ('bd2' eq 1):

Weatherization

(See 'bd2b_1' for full text of this form.)

%	N	VALUE	LABEL
25.8	23	1	Yes
74.2	66	5	No
	4	8	DK
	383	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 1/107

bd2b_4: Renovation: other

QUESTION ASKED IF BUILDING EVER RENOVATED ('bd2' eq 1):

Other

(See 'bd2b_1' for full text of this form.)

%	N	VALUE	LABEL
61.3	57	1	Yes (SPECIFY)
38.7	36	5	No
	383	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 1/108

SPACE INTERIOR FINISHES

sifA7_a: 1st floor: type of finish-carpet

What types of floor finishes are in the space on the first floor?

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

Carpet

%	N	VALUE	LABEL
79.2	376	1	Yes
20.8	99	5	No
	1	8	DK
-----	---		
100.0	476	cases	

Record/column: 1/109

sifA7_b: 1st floor: type of finish-wood

Wood

(See 'sifA7_a' for full text of this form.)

%	N	VALUE	LABEL
7.4	35	1	Yes
92.6	441	5	No
-----	---		
100.0	476	cases	

Record/column: 1/110

sifA7_c: 1st floor: type of finish-ceramic tile

Ceramic Tile

(See 'sifA7_a' for full text of this form.)

%	N	VALUE	LABEL
51.3	244	1	Yes
48.7	232	5	No
-----	---		
100.0	476	cases	

Record/column: 1/111

sifA7_d: 1st floor: type of finish-concrete

Concrete

(See 'sifA7_a' for full text of this form.)

%	N	VALUE	LABEL
31.1	148	1	Yes
68.9	328	5	No
-----	---		
100.0	476	cases	

Record/column: 1/112

sifA7_e: 1st floor: type of finish-vinyl flooring

Vinyl Flooring

(See 'sifA7_a' for full text of this form.)

%	N	VALUE	LABEL
32.2	153	1	Yes
67.8	322	5	No
	1	8	DK
-----	---		
100.0	476	cases	

Record/column: 1/113

sifA7_f: 1st floor: type of finish-linoleum

Linoleum

(See 'sifA7_a' for full text of this form.)

%	N	VALUE	LABEL
24.6	117	1	Yes
75.4	358	5	No
	1	8	DK

----- ---
100.0 476 cases

Record/column: 1/114

sifA7_g: 1st floor: type of finish-other

Other (SPECIFY)

(See 'sifA7_a' for full text of this form.)

%	N	VALUE	LABEL
6.9	33	1	Yes (SPECIFY)
93.1	442	5	No
	1	8	DK

----- ---
100.0 476 cases

Record/column: 1/115

sifA7a: 1st floor: primary floor finish

IF ONLY ONE TYPE OF FLOOR FINISH IN BUILDING,
THIS ITEM IS AUTOCODED AND SKIPPED.

Which of the floor finishes you mentioned is the primary one?

%	N	VALUE	LABEL
56.5	265	1	Carpet
1.7	8	2	Wood
14.9	70	3	Ceramic Tile
14.9	70	4	Concrete
7.2	34	5	Vinyl Flooring
3.2	15	6	Linoleum
1.5	7	7	Other (SPECIFY)
	6	8	DK
	1	.	Blank - DNA

----- ---
100.0 476 cases

Record/column: 1/116

sifB7_a: 2nd floor: type of finish-carpet

IF COMPANY USES ONLY ONE FLOOR ('ci6' eq 1),
INTERVIEW PATH SKIPS TO 'bola':

What types of floor finishes are in the space on the SECOND floor?

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

Carpet

%	N	VALUE	LABEL
93.0	106	1	Yes
7.0	8	5	No
	1	8	DK
	361	.	Blank - DNA

----- ---
100.0 476 cases

Record/column: 1/117

sifB7_b: 2nd floor: type of finish-wood

Wood

(See 'sifB7_a' for full text of this form.)

%	N	VALUE	LABEL
7.9	9	1	Yes
92.1	105	5	No
	1	8	DK
	361	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 1/118

sifB7_c: 2nd floor: type of finish-ceramic tile

Ceramic Tile

(See 'sifB7_a' for full text of this form.)

%	N	VALUE	LABEL
32.5	37	1	Yes
67.5	77	5	No
	1	8	DK
	361	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 1/119

sifB7_d: 2nd floor: type of finish-concrete

Concrete

(See 'sifB7_a' for full text of this form.)

%	N	VALUE	LABEL
6.1	7	1	Yes
93.9	107	5	No
	1	8	DK
	361	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 1/120

sifB7_e: 2nd floor: type of finish-vinyl flooring

Vinyl Flooring

(See 'sifB7_a' for full text of this form.)

%	N	VALUE	LABEL
17.5	20	1	Yes
82.5	94	5	No
	1	8	DK
	361	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 1/121

sifB7_f: 2nd floor: type of finish-linoleum

Linoleum

(See 'sifB7_a' for full text of this form.)

%	N	VALUE	LABEL
17.5	20	1	Yes
82.5	94	5	No
	1	8	DK
	361	.	Blank - DNA

100.0 476 cases

Record/column: 1/122

sifB7_g: 2nd floor: type of finish-other

Other (SPECIFY)

(See 'sifB7_a' for full text of this form.)

%	N	VALUE	LABEL
3.5	4	1	Yes (SPECIFY)
96.5	110	5	No
	1	8	DK
	361	.	Blank - DNA

100.0 476 cases

Record/column: 1/123

sifB7a: 2nd floor: primary floor finish

IF ONLY ONE TYPE OF FLOOR FINISH IN BUILDING,
THIS ITEM IS AUTOCODED AND SKIPPED.

Which of the floor finishes you mentioned is the primary one?

%	N	VALUE	LABEL
89.4	101	1	Carpet
4.4	5	2	Wood
0.9	1	3	Ceramic Tile
1.8	2	4	Concrete
1.8	2	6	Linoleum
1.8	2	7	Other (SPECIFY)
	1	8	DK
	362	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 1/124

sifC7_a: 3rd floor: type of finish-carpet

IF COMPANY USES ONLY TWO FLOORS ('ci6' eq 2),
INTERVIEW PATH SKIPS TO 'bola':

What types of floor finishes are in the space on the THIRD floor?

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

Carpet

%	N	VALUE	LABEL
100.0	14	1	Yes
	462	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 1/125

sifC7_b: 3rd floor: type of finish-wood

Wood

(See 'sifC7_a' for full text of this form.)

%	N	VALUE	LABEL
100.0	14	5	No
	462	.	Blank - DNA

 100.0 476 cases

Record/column: 1/126

sifC7_c: 3rd floor: type of finish-ceramic tile

Ceramic Tile

(See 'sifC7_a' for full text of this form.)

%	N	VALUE	LABEL
28.6	4	1	Yes
71.4	10	5	No
	462	.	Blank - DNA

 100.0 476 cases

Record/column: 1/127

sifC7_d: 3rd floor: type of finish-concrete

Concrete

(See 'sifC7_a' for full text of this form.)

%	N	VALUE	LABEL
100.0	14	5	No
	462	.	Blank - DNA

 100.0 476 cases

Record/column: 1/128

sifC7_e: 3rd floor: type of finish-vinyl flooring

Vinyl Flooring

(See 'sifC7_a' for full text of this form.)

%	N	VALUE	LABEL
21.4	3	1	Yes
78.6	11	5	No
	462	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 1/129

sifC7_f: 3rd floor: type of finish-linoleum

Linoleum

(See 'sifC7_a' for full text of this form.)

%	N	VALUE	LABEL
100.0	14	5	No
	462	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 1/130

sifC7_g: 3rd floor: type of finish-other

Other (SPECIFY)

(See 'sifC7_a' for full text of this form.)

%	N	VALUE	LABEL
100.0	14	5	No
	462	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 1/131

sifC7a: 3rd floor: primary floor finish

IF ONLY ONE TYPE OF FLOOR FINISH IN BUILDING,
THIS ITEM IS AUTOCODED AND SKIPPED.

Which of the floor finishes you mentioned is the primary one?

%	N	VALUE	LABEL
100.0	14	1	Carpet
	462	.	Blank - DNA

100.0 476 cases

Record/column: 1/132

BUSINESS HOURS**bo1a: Building is open 24 hrs**

Is MOST of this building typically open for business 24 hours,
seven days a week?

%	N	VALUE	LABEL
15.1	72	1	Yes (SKIP TO 'bo9')
84.9	404	5	No
-----	----		
100.0	476	cases	

Record/column: 1/133

bo1_a: Opening time: Mon-Fri

QUESTION ASKED IF BUILDING IS NOT OPEN 24 HRS. ('bola' ge 5):

What are the typical weekday (Monday - Friday) business hours
 (for MOST of the building)?

Open Time: (A)M (P)M

%	N	VALUE	LABEL
1.5	6	400	
0.7	3	430	
3.0	12	500	
0.2	1	530	
6.2	25	600	
2.0	8	630	
14.4	58	700	
6.4	26	730	
36.4	147	800	
3.0	12	830	
0.2	1	850	
10.6	43	900	
0.2	1	930	
7.4	30	1000	
0.2	1	1030	
6.7	27	1100	
0.2	1	1200	
0.2	1	9997	Not open
0.2	1	9999	Ref/MD
	72	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/columns: 1/134-137

bo1_a1 : Opening time: Mon-Fri am/pm

(A)M (P)M

(See 'bo1_a' for full text of this form.)

%	N	VALUE	LABEL
98.0	396	1	AM
1.5	6	2	PM
0.2	1	7	Not open/NA
0.2	1	9	Ref/MD
	72	.	Blank - DNA

----- ---
100.0 476 cases

Record/column: 1/138

bo1_b: Closing Time: Mon-Fri

QUESTION ASKED IF BUILDING IS NOT OPEN 24 HRS. ('bola' ge 5):

Closed Time: (A)M (P)M

(See 'bol_a' for full text of this form.)

%	N	VALUE	LABEL
1.0	4	100	
0.5	2	200	
0.2	1	230	
0.2	1	300	
0.5	2	330	
3.0	12	400	
2.0	8	430	
41.3	167	500	
3.2	13	530	
13.9	56	600	
0.7	3	630	
4.5	18	700	
0.7	3	730	
4.2	17	800	
7.7	31	900	
0.5	2	930	
7.4	30	1000	
0.7	3	1030	
3.5	14	1100	
3.5	14	1200	
0.2	1	1230	
0.2	1	9997	Not open
0.2	1	9999	Ref/MD
	72	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/columns: 1/139-142

bo1_b1: Closing Time: Mon-Fri am/pm

(A)M (P)M

(See 'bo1_a' for full text of this form.)

%	N	VALUE	LABEL
5.0	20	1	AM
94.6	382	2	PM
0.2	1	7	Not open/NA
0.2	1	9	Ref/MD
	72	.	Blank - DNA

100.0 476 cases

Record/column: 1/143

bo2_a: Opening time: Saturday

QUESTION ASKED IF BUILDING IS NOT OPEN 24 HRS. ('bola' ge 5):

What are the typical Saturday business hours
 (for MOST of the building)?

Open Time: (A)M (P)M

%	N	VALUE	LABEL
0.5	2	300	
0.7	3	400	
0.2	1	430	
1.7	7	500	
3.0	12	600	
0.7	3	630	
3.2	13	700	
1.0	4	730	
10.9	44	800	
0.2	1	820	
0.2	1	830	
7.7	31	900	
7.2	29	1000	
0.2	1	1030	
6.2	25	1100	
0.2	1	1200	
54.7	221	9997	Not open
1.0	4	9998	DK
0.2	1	9999	Ref/MD
	72	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/columns: 1/144-147

bo2_a1: Opening time: Saturday am/pm

(A)M (P)M

(See 'bo2_a' for full text of this form.)

%	N	VALUE	LABEL
42.6	172	1	AM
1.5	6	2	PM
54.7	221	7	Not open/NA
1.0	4	8	DK
0.2	1	9	Ref/MD
	72	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 1/148

bo2_b: Closing time: Saturday

QUESTION ASKED IF BUILDING IS NOT OPEN 24 HRS. ('bola' ge 5):

Closed Time: (A)M (P)M

(See 'bo2_a' for full text of this form.)

%	N	VALUE	LABEL
2.2	9	100	
1.7	7	200	
0.7	3	300	
1.2	5	400	
0.2	1	430	
5.7	23	500	
0.7	3	530	
4.0	16	600	
0.2	1	630	
2.5	10	700	
0.2	1	730	
2.7	11	800	
4.7	19	900	
0.2	1	930	
5.0	20	1000	
0.5	2	1030	
5.4	22	1100	
0.2	1	1130	
5.4	22	1200	
0.2	1	1230	
54.7	221	9997	
1.0	4	9998	DK
0.2	1	9999	Ref/MD
	72	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/columns: 1/149-152

bo2_b1: Closing time: Saturday am/pm

(A)M (P)M

(See 'bo2_a' for full text of this form.)

%	N	VALUE	LABEL
5.9	24	1	AM
38.1	154	2	PM
54.7	221	7	Not open/NA
1.0	4	8	DK
0.2	1	9	Ref/MD
	72	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 1/153

bo3_a: Opening time: Sunday

QUESTION ASKED IF BUILDING IS NOT OPEN 24 HRS. ('bola' ge 5):

What are the typical Sunday business hours
 (for MOST of the building)?

Open Time: (A)M (P)M

%	N	VALUE	LABEL
0.2	1	100	
0.5	2	300	
0.5	2	400	
1.2	5	500	
0.2	1	530	
2.7	11	600	
0.5	2	630	
2.7	11	700	
0.2	1	730	
3.7	15	800	
0.2	1	830	
4.5	18	900	
6.9	28	1000	
0.2	1	1030	
6.4	26	1100	
0.5	2	1200	
67.1	271	9997	Not open
1.2	5	9998	DK
0.2	1	9999	Ref/MD
	72	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/columns: 1/154-157

bo3_a1 : Opening time: Sunday am/pm

(A)M (P)M _a1

(See 'bo3_a' for full text of this form.)

%	N	VALUE	LABEL
29.0	117	1	AM
2.5	10	2	PM
67.1	271	7	Not open/NA
1.2	5	8	DK
0.2	1	9	Ref/MD
	72	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 1/158

bo3_b: Closing time: Sunday

QUESTION ASKED IF BUILDING IS NOT OPEN 24 HRS. ('bola' ge 5):

Closed Time: (A)M (P)M

(See 'bo3_a' for full text of this form.)

%	N	VALUE	LABEL
0.7	3	100	
0.5	2	200	
0.5	2	300	
0.7	3	400	
0.2	1	430	
2.5	10	500	
0.2	1	530	
3.2	13	600	
3.7	15	700	
1.2	5	800	
0.2	1	830	
5.2	21	900	
5.9	24	1000	
0.5	2	1030	
4.5	18	1100	
1.2	5	1200	
0.2	1	1230	
67.1	271	9997	Not open
1.2	5	9998	DK
0.2	1	9999	Ref/MD
	72	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/columns: 1/159-162

bo3_b1: Closing time: Sunday am/pm

(A)M (P)M

(See 'bo3_a' for full text of this form.)

%	N	VALUE	LABEL
2.7	11	1	AM
28.7	116	2	PM
67.1	271	7	Not open/NA
1.2	5	8	DK
0.2	1	9	Ref/MD
	72	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 1/163

PERSONS PRESENT

bo9: Maximum employees present

During business hours, in a typical week, what is the MAXIMUM number of employees, including contractors and other workers, in the space at any point in time?

%	N	VALUE	LABEL
0.9	4	1	
2.4	11	2	
3.1	14	3	
4.2	19	4	
5.1	23	5	
3.3	15	6	
3.5	16	7	
3.5	16	8	
1.1	5	9	
4.2	19	10	
1.1	5	11	
2.0	9	12	
2.0	9	13	
0.9	4	14	
4.0	18	15	
0.2	1	16	
0.2	1	17	
0.2	1	19	
4.4	20	20	
1.1	5	22	
0.4	2	23	
1.1	5	24	
6.0	27	25	
0.4	2	26	
0.2	1	27	
0.2	1	29	
5.7	26	30	
0.2	1	33	
3.5	16	35	
3.5	16	40	
0.2	1	42	
1.3	6	45	
5.3	24	50	
0.2	1	54	
0.7	3	55	
0.4	2	57	
3.5	16	60	
1.1	5	65	
0.7	3	70	
2.2	10	75	
1.3	6	80	
0.2	1	84	
0.4	2	85	
0.7	3	90	

0.2	1	94	
4.6	21	100	
0.4	2	110	
1.8	8	120	
0.4	2	125	
0.2	1	130	
1.5	7	150	
0.4	2	175	
0.2	1	185	
0.7	3	200	
0.2	1	225	
0.2	1	240	
0.4	2	250	
0.2	1	270	
0.2	1	300	
0.4	2	400	
0.2	1	600	
0.2	1	700	
	23	9998	DK

----- ---
100.0 476 cases

Record/columns: 1/164-167

bo10: Maximum customers present

During business hours, in a typical week, what is the MAXIMUM number of customers or members of the public in the space at any point in time?

%	N	VALUE	LABEL
7.5	32	0	None
3.8	16	1	
4.2	18	2	
4.7	20	3	
3.8	16	4	
6.4	27	5	
1.4	6	6	
0.9	4	7	
1.4	6	8	
0.2	1	9	
8.5	36	10	
1.7	7	12	
0.2	1	13	
5.2	22	15	
0.2	1	18	
6.4	27	20	
0.2	1	23	
0.2	1	24	
2.8	12	25	
0.2	1	26	
0.2	1	28	
4.5	19	30	
0.9	4	35	
0.2	1	37	
1.9	8	40	
4.7	20	50	
1.4	6	60	
0.5	2	70	
1.7	7	75	
0.2	1	80	
0.5	2	90	
2.4	10	100	
0.2	1	103	
0.2	1	105	
0.7	3	120	
0.2	1	125	
0.2	1	128	
0.5	2	140	
2.6	11	150	
0.2	1	158	
0.2	1	172	
0.2	1	180	
0.2	1	185	
0.2	1	188	
1.4	6	200	
0.2	1	203	
0.2	1	225	

1.2	5	240	
1.7	7	250	
0.2	1	260	
0.5	2	270	
0.2	1	284	
2.1	9	300	
0.2	1	340	
0.5	2	350	
0.9	4	400	
0.2	1	468	
1.4	6	500	
0.2	1	501	
0.2	1	680	
0.2	1	800	
0.7	3	1000	
2.4	10	1001	Over 1,000 Customers
	51	9998	DK
	1	9999	Ref/MD
-----	----		
100.0	476	cases	

Record/columns: 1/168-171

SURROUNDING LOCALE

su1: Surrounding area: rural, etc.

Would you describe the area surrounding the building as urban, suburban, rural or something else?

%	N	VALUE	LABEL
37.3	174	1	Urban
45.0	210	2	Suburban
11.3	53	3	Rural
6.4	30	4	Something else (SPECIFY)
	8	8	DK
	1	9	Ref/MD
-----	----		
100.0	476	cases	

Record/column: 1/172

su1a: Surrounding area: industrial, etc.

Would you describe the area surrounding the building as industrial, commercial, residential, agricultural, or something else?

By "surrounding area" we mean the area within a half-mile.

%	N	VALUE	LABEL
19.2	91	1	Industrial
52.0	247	2	Commercial
17.9	85	3	Residential/Resort-like
1.5	7	4	Agricultural
9.5	45	5	Something else (SPECIFY)
	1	9	Ref/MD
-----	----		
100.0	476	cases	

Record/column: 1/173

HVAC OPERATING SCHEDULE

os1: Number of AC settings when occupied

For this question, thinking of the space where MOST of the people spend MOST of their time, does the space have one thermostat setting for COOLING, or more than one?

%	N	VALUE	LABEL	
54.1	253	1	One setting	
44.9	210	2	Two or more	
1.1	5	3	Turned off/Not used	(SKIP TO 'os2')
	7	8	DK	(SKIP TO 'os2')
	1	9	Ref/MD	(SKIP TO 'os2')
-----	----			
100.0	476	cases		

Record/column: 1/174

os1b_1: First AC setting when occupied

QUESTION ASKED IF AC IS USED ('os1' le 2):

What are the thermostat settings for COOLING when it is OCCUPIED?

%	N	VALUE	LABEL
0.5	2	59	Below 60 degrees (SPECIFY)
0.7	3	62	
1.4	6	65	
0.7	3	66	
0.7	3	67	
7.6	33	68	
1.6	7	69	
9.5	41	70	
2.8	12	71	
21.2	92	72	
5.3	23	73	
17.3	75	74	
9.0	39	75	
7.2	31	76	
1.4	6	77	
11.8	51	78	
0.9	4	79	
0.2	1	80	
0.2	1	81	
	30	998	
	13	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/columns: 1/175-177

os1b_2: Second AC setting when occupied

CODED IF MORE THAN ONE AC SETTING IS USED ('os1' eq 2):

(See 'os1b_1' for full text of this form.)

%	N	VALUE	LABEL
2.2	3	59	Below 60 degrees (SPECIFY)
0.7	1	60	
0.7	1	62	
1.5	2	65	
0.7	1	66	
0.7	1	67	
11.1	15	68	
1.5	2	69	
8.9	12	70	
2.2	3	71	
17.8	24	72	
3.0	4	73	
11.9	16	74	
6.7	9	75	
5.2	7	76	
0.7	1	77	
8.9	12	78	
2.2	3	79	
7.4	10	80	
2.2	3	82	
3.0	4	85	
0.7	1	88	
	75	998	
	266	.	Blank - DNA

----- ---
 100.0 476 cases

Record/columns: 1/178-180

os2: Number of AC settings when unoccupied

When the space is UNOCCUPIED, does the thermostat have one cooling setting or more than one?

%	N	VALUE	LABEL	
31.3	144	1	One setting	
8.0	37	2	Two or more	
50.7	233	3	Turned off/Not used	(SKIP TO 'os3')
10.0	46	4	NA/always open	(SKIP TO 'os3')
	15	8	DK	(SKIP TO 'os3')
	1	9	Ref/MD	(SKIP TO 'os3')
-----	----			
100.0	476	cases		

Record/column: 1/181

os2b_1: First AC setting when unoccupied

QUESTION ASKED IF AC IS USED ('os2' le 2):

What are the thermostat cooling settings when it is UNOCCUPIED?

%	N	VALUE	LABEL
3.6	6	59	Below 60 degrees (SPECIFY)
1.8	3	60	
1.2	2	64	
1.2	2	65	
1.8	3	66	
4.2	7	68	
1.2	2	69	
5.4	9	70	
1.2	2	71	
8.3	14	72	
1.2	2	73	
6.5	11	74	
6.5	11	75	
3.0	5	76	
8.3	14	78	
0.6	1	79	
18.5	31	80	
4.2	7	82	
1.2	2	84	
14.9	25	85	
1.2	2	88	
4.2	7	90	
	13	998	
	295	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/columns: 1/182-184

os2b_2: Second AC setting when unoccupied

CODED IF MORE THAN ONE AC SETTING IS USED ('os2' eq 2):

(See 'os2b_1' for full text of this form.)

%	N	VALUE	LABEL
9.5	2	60	
9.5	2	65	
9.5	2	70	
4.8	1	72	
4.8	1	73	
4.8	1	74	
4.8	1	75	
4.8	1	76	
14.3	3	78	
23.8	5	80	
4.8	1	84	
4.8	1	85	
	16	998	
	439	.	Blank - DNA
-----	---		
100.0	476		cases

Record/columns: 1/185-187

os3: Number of heating settings when occupied

When the space is OCCUPIED, does the space have one thermostat setting for HEATING or more than one?

%	N	VALUE	LABEL
61.1	284	1	One setting
33.3	155	2	Two or more
5.6	26	3	Turned off/Not used (SKIP TO 'os4')
	10	8	DK (SKIP TO 'os4')
	1	9	Ref/MD (SKIP TO 'os4')
-----	---		
100.0	476		cases

Record/column: 1/188

os3b_1: First heating setting when occupied

QUESTION ASKED IF HEATING IS USED ('os3' le 2):

What are the thermostat settings for HEATING when it is OCCUPIED?

%	N	VALUE	LABEL
0.8	3	59	Below 60 degrees (SPECIFY)
1.0	4	60	
0.3	1	62	
0.5	2	63	
2.1	8	65	
2.1	8	66	
0.8	3	67	
30.4	116	68	
3.4	13	69	
11.8	45	70	
2.9	11	71	
14.7	56	72	
2.4	9	73	
7.3	28	74	
5.5	21	75	
3.4	13	76	
1.0	4	77	
5.2	20	78	
1.3	5	79	
1.6	6	80	
0.3	1	81	
0.5	2	82	
0.5	2	85	
	58	998	
	37	.	Blank - DNA

----- ---

100.0 476 cases

Record/columns: 1/189-191

os3b_2: Second heating setting when occupied

CODED IF MORE THAN ONE HEATING SETTING IS USED ('os3' eq 2):

(See 'os3b_1' for full text of this form.)

%	N	VALUE	LABEL
3.6	3	59	Below 60 degrees (SPECIFY)
6.0	5	60	
3.6	3	64	
3.6	3	65	
1.2	1	66	
2.4	2	67	
21.4	18	68	
3.6	3	69	
8.3	7	70	
3.6	3	71	
20.2	17	72	
3.6	3	73	
8.3	7	74	
3.6	3	76	
6.0	5	78	
1.2	1	80	
	71	998	
	321	.	Blank - DNA
-----	----		
100.0	476		cases

Record/columns: 1/192-194

os4: Number of heating settings when unoccupied

When the space is UNOCCUPIED, does the thermostat have one heating setting or more than one?

%	N	VALUE	LABEL
27.6	125	1	One setting
6.2	28	2	Two or more
56.3	255	3	Turned off/Not used (SKIP TO 'be2')
9.9	45	4	NA/always open (SKIP TO 'be2')
	22	8	DK (SKIP TO 'be2')
	1	9	Ref/MD (SKIP TO 'be2')
-----	----		
100.0	476		cases

Record/column: 1/195

os4b_1: First heating setting when unoccupied

QUESTION ASKED IF HEATING IS USED ('os4' le 2):

What are the thermostat settings for HEATING when it is UNOCCUPIED?

%	N	VALUE	LABEL
14.8	20	59	Below 60 degrees (SPECIFY)
13.3	18	60	
0.7	1	61	
1.5	2	62	
0.7	1	63	
2.2	3	64	
10.4	14	65	
3.0	4	66	
15.6	21	68	
0.7	1	69	
8.1	11	70	
5.9	8	72	
3.7	5	74	
3.7	5	75	
3.0	4	76	
0.7	1	77	
3.0	4	78	
0.7	1	79	
3.7	5	80	
0.7	1	82	
2.2	3	85	
0.7	1	86	
0.7	1	89	
	18	998	
	323	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/columns: 1/196-198

os4b_2: Second heating setting when unoccupied

CODED IF MORE THAN ONE HEATING SETTING IS USED ('os4' eq 2):

(See 'os4b_1' for full text of this form.)

%	N	VALUE	LABEL
6.7	1	59	Below 60 degrees (SPECIFY)
13.3	2	60	
6.7	1	61	
6.7	1	64	
6.7	1	65	
6.7	1	66	
6.7	1	68	
13.3	2	70	
13.3	2	73	
6.7	1	78	
13.3	2	80	
	13	998	
	448	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/columns: 1/199-201

BUILDING ENVELOPE

be2: Space has windows that open

Are there any windows in the space that are capable of being opened?

%	N	VALUE	LABEL
20.7	98	1	Yes
79.3	375	5	No (SKIP TO 'be4')
	2	8	DK (SKIP TO 'be4')
	1	9	Ref/MD (SKIP TO 'be4')
-----	----		
100.0	476	cases	

Record/column: 1/202

be2b: Windows are opened regularly

QUESTION ASKED IF SPACE HAS WINDOWS THAT OPEN ('be2' eq 1):

Are these windows opened regularly during some seasons?

%	N	VALUE	LABEL
51.0	50	1	Yes
49.0	48	5	No
	378	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 1/203

be4: Doors are kept open

Are there any doors in the space that are left open regularly that allow air to flow to or from outside or to or from another space that is ventilated by a different system than this space?

%	N	VALUE	LABEL
23.4	111	1	Yes
76.6	363	5	No (SKIP TO 'ic3')
	1	8	DK (SKIP TO 'ic3')
	1	9	Ref/MD (SKIP TO 'ic3')
-----	----		
100.0	476		cases

Record/column: 1/204

be4a: Number of doors left open

QUESTION ASKED IF SPACE HAS DOORS THAT ARE LEFT OPEN ('be4' le 1):

How many such doors are left open regularly?

%	N	VALUE	LABEL
35.5	38	1	
29.9	32	2	
11.2	12	3	
8.4	9	4	
2.8	3	5	
1.9	2	6	
0.9	1	7	
2.8	3	8	
0.9	1	9	
0.9	1	10	
0.9	1	14	
2.8	3	15	
0.9	1	50	
	3	998	DK
	1	999	Ref/MD
	365	.	Blank - DNA
-----	----		
100.0	476		cases

Record/columns: 1/205-207

BUILDING CONTAMINANT SOURCE INFORMATION

ic3: Space has visible condensation

Is there ever any visible condensation on the windows or walls?

%	N	VALUE	LABEL	
3.4	16	1	Yes	
96.6	454	5	No	(SKIP TO 'ic4')
	3	8	DK	(SKIP TO 'ic4')
	3	9	Ref/MD	(SKIP TO 'ic4')

----- ---

100.0 476 cases

Record/column: 1/208

ic3a_1: Visible condensation on windows

QUESTION ASKED IF SPACE HAS VISIBLE CONDENSATION ('ic3' eq 1):

Where (was the visible condensation)?

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

Windows

%	N	VALUE	LABEL
87.5	14	1	Yes
12.5	2	5	No
	460	.	Blank - DNA

----- ---

100.0 476 cases

Record/column: 1/209

ic3a_2: Visible condensation on wallsQUESTION ASKED IF SPACE HAS VISIBLE CONDENSATION ('ic3' eq 1):

Walls

(See 'ic3a_1' for full text of this form.)

%	N	VALUE	LABEL
6.2	1	1	Yes
93.8	15	5	No
	460	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 1/210

ic3a_3: Visible condensation: otherQUESTION ASKED IF SPACE HAS VISIBLE CONDENSATION ('ic3' eq 1):

Other

(See 'ic3a_1' for full text of this form.)

%	N	VALUE	LABEL
6.2	1	1	Yes
93.8	15	5	No
	460	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 1/211

ic3b_1: Visible condensation at night

QUESTION ASKED IF SPACE HAS VISIBLE CONDENSATION ('ic3' eq 1):

When (do you see condensation)?

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

Nights

%	N	VALUE	LABEL
12.5	2	1	Yes
87.5	14	5	No
	460	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 1/212

ic3b_2: Visible condensation in winter

QUESTION ASKED IF SPACE HAS VISIBLE CONDENSATION ('ic3' eq 1):

Winter

(See 'ic3b_1' for full text of this form.)

%	N	VALUE	LABEL
56.2	9	1	Yes
43.8	7	5	No
	460	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 1/213

ic3b_3: Visible condensation: other

QUESTION ASKED IF SPACE HAS VISIBLE CONDENSATION ('ic3' eq 1):

Other

(See 'ic3b_1' for full text of this form.)

%	N	VALUE	LABEL
50.0	8	1	Yes
50.0	8	5	No
	460	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 1/214

ic4: Space has water damage or mold

Is there currently any visible water damage or mold?

%	N	VALUE	LABEL
6.8	32	1	Yes
93.2	441	5	No (SKIP TO 'ic5')
	3	9	Ref/MD (SKIP TO 'ic5')
-----	---		
100.0	476		cases

Record/column: 1/215

ic4a: Size of water damaged area

QUESTION ASKED IF ANY WATER DAMAGE/MOLD ('ic4' eq 1):

What is the approximate area, in square feet, where there is currently visible water damage or mold?

%	N	VALUE	LABEL
3.7	1	1	
18.5	5	2	
11.1	3	3	
7.4	2	5	
7.4	2	6	
14.8	4	10	
3.7	1	12	
11.1	3	20	
3.7	1	24	
3.7	1	25	
3.7	1	50	
3.7	1	100	
3.7	1	150	
3.7	1	1001	Over 1,000 square feet
	5	9998	DK
	444	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/columns: 1/216-219

ic4b_1: Location of water damaged area 1

QUESTION ASKED IF ANY WATER DAMAGE/MOLD ('ic4' eq 1):

Please describe the location of the currently visible
water damage or mold.

	%	N	VALUE
LABEL			
0.2	1	Along an aisle in the dining room- water damage to a ceiling tile.	
0.2	1	Bedroom ceiling next to vent.//	
0.2	1	Coming from the HVAC unit - corroded the pipe and leaked onto the roof	
0.2	1	Damage form HVAC on ceiling tiles - it's a drop-down ceiling	
0.2	1	Its in the hall where the patients walk in to the back of the office	
0.2	1	On the baseboard and up the wall a little bit-water seeped throught	
0.2	1	On the bottom floor by the first office on the bottom floor. It's on	
0.2	1	On the ceiling tiles//	
0.2	1	On windowsill, across length of the room, (8ft.) by about 3 in.	
0.2	1	Storage Room , on second floor	
0.2	1	Suspended ceiling tiles damaged by leaky roof.//	
0.2	1	The area near the floor, right next to the door.//	
0.2	1	There are small scattered areas of water damage around the building as	
0.2	1	Underneath sink on laminate flooring -- water damage.//	
0.2	1	Water damage from sprinkler.//	
0.4	2	ceiling	
0.2	1	ceiling only//	
0.2	1	ceiling tile	
0.2	1	ceiling tiles	
0.2	1	ceiling//	
0.2	1	esterior building	
0.2	1	every store - all over	
0.2	1	front door, also near glass window//	
0.2	1	front office //	
0.2	1	in the ceiling//	
0.2	1	kitchen area//	
0.2	1	on ceiling tiles//	
0.2	1	roof	
0.2	1	small leak on ceiling //	
0.2	1	the dish area	
0.2	1	under a window//	
93.3	444		
-----	---		
100.0	476	cases	

Record/columns: 1/220-289

January 25, 2010

ic4b_2: Location of water damaged area 2

QUESTION ASKED IF ANY WATER DAMAGE/MOLD ('ic4' eq 1):

LABEL	%	N	VALUE
1.1	5		//
0.2	1		Probably due to sprinklerhead from outside.//
0.2	1		The air conditioning leaked.
0.2	1		lights suspended in it.//
0.2	1		rubber seals around the frame...//
0.2	1		some plumbing fittings came loose; est."under 100 sq ft", probably 50.
0.2	1		the floor- from one of the units- water was dripping down.//
0.2	1		tiles. They recently had the problem repaired.
0.2	1		under cooling units
0.2	1		where the come in for x rays
97.1	462		
-----	---		
100.0	476		cases

Record/columns: 1/290-359

ic5: Water damage/mold in the past

QUESTION ASKED IF ANY WATER DAMAGE/MOLD ('ic4' eq 1):

In the past, has there been any [OTHER] water damage or mold?

%	N	VALUE	LABEL
20.2	94	1	Yes
79.8	371	5	No (SKIP TO 'ic7')
	7	8	DK (SKIP TO 'ic7')
	4	9	Ref/MD (SKIP TO 'ic7')
-----	---		
100.0	476		cases

Record/column: 1/360

ic5a: Size of past water damage area

QUESTION ASKED IF ANY PAST WATER DAMAGE/MOLD ('ic5' eq 1):

What was the approximate area in square feet of the area where there was visible water damage or mold in the past?

%	N	VALUE	LABEL
14.3	12	1	
9.5	8	2	
7.1	6	3	
6.0	5	4	
1.2	1	5	
1.2	1	6	
4.8	4	8	
6.0	5	10	
2.4	2	12	
3.6	3	15	
1.2	1	20	
2.4	2	25	
1.2	1	30	
1.2	1	35	
1.2	1	48	
3.6	3	50	
1.2	1	65	
9.5	8	100	
1.2	1	120	
1.2	1	150	
3.6	3	200	
1.2	1	280	
1.2	1	500	
6.0	5	1000	
8.3	7	1001	Over 1,000 square feet
	10	9998	DK
	382	.	Blank - DNA
-----	----		
100.0	476		cases

Record/columns: 1/361-364

ic5b_1: Location of past water damaged area 1

QUESTION ASKED IF ANY PAST WATER DAMAGE/MOLD ('ic5' eq 1):

Please describe the location of the water damage or mold.

476 cases

Record/columns: 1/365-434

ic5b_2: Location of past water damaged area 2

QUESTION ASKED IF ANY PAST WATER DAMAGE/MOLD ('ic5' eq 1):

	%	N	VALUE
LABEL			
2.1	10		//
0.2	1		No mold, just flooding.//
0.2	1		at back wall//
0.2	1		by poor sealing of concrete.//
0.2	1		crack in the windows or the window frames.//
0.2	1		faucet.
0.2	1		foot water stains that appear every now and then. They
try to fix it			
0.2	1		hops are brewed. Problem has been fixed///
0.2	1		occasions, repaired right away)///
0.2	1		repaired.//
0.2	1		rubber floor gasket (under steel walls)..//
0.2	1		take the water out of the carpet
0.2	1		through the window frames. Replaced/fixed in 2005.
0.2	1		tile in each of the suites///
95.2	453		
-----	---		
100.0	476		cases

Record/columns: 2/1-70

COOKING APPLIANCES: Non-medical offices

ic7: Offices: cooking appliances used

QUESTION ASKED IF NON-MEDICAL OFFICES ('ci3' eq 1):

Are there any toasters, microwave ovens, or other cooking appliances used in the space?

(INTERVIEW SKIPS TO 'fdA1' AFTER ANSWERING)

%	N	VALUE	LABEL
93.9	108	1	Yes
6.1	7	5	No
	1	8	DK
	360	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 2/71

Cooking Appliances: Restaurants

ic9: Restaurant: microwave ovens used

QUESTION ASKED IF RESTAURANT ('ci3' eq 3):

Are there any microwave ovens in use in the space?

%	N	VALUE	LABEL
84.3	43	1	Yes
15.7	8	5	No
	425	.	Blank - DNA

100.0 476 cases

Record/column: 2/72

ic11: Restaurant: ovens used

QUESTION ASKED IF RESTAURANT ('ci3' eq 3):

Are ovens used in this space?

%	N	VALUE	LABEL
86.3	44	1	Yes
13.7	7	5	No (SKIP TO 'ic12')
	425	.	Blank - DNA

100.0 476 cases

Record/column: 2/73

ic11a_1: Restaurant: type of oven-gas

QUESTION ASKED IF OVENS USED ('ic11' eq 1):

What type of fuel is used for this/these ovens?

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

Gas

%	N	VALUE	LABEL
79.1	34	1	Yes
20.9	9	5	No
	1	8	DK
	432	.	Blank - DNA

 100.0 476 cases

Record/column: 2/74

ic11a_2: Restaurant: type of oven-electric

QUESTION ASKED IF OVENS USED ('ic11' eq 1):

Electricity

(See 'ic11a_1' for full text of this form.)

%	N	VALUE	LABEL
30.2	13	1	Yes
69.8	30	5	No
	1	8	DK
	432	.	Blank - DNA

 100.0 476 cases

Record/column: 2/75

ic11a_3: Restaurant: type of oven-other

QUESTION ASKED IF OVENS USED ('ic11' eq 1):

Other (SPECIFY)

(See 'ic11a_1' for full text of this form.)

%	N	VALUE	LABEL
2.3	1	1	Yes (SPECIFY)
97.7	42	5	No
	1	8	DK
	432	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/76

ic12: Restaurant: grilling or roasting

QUESTION ASKED IF RESTAURANT ('ci3' eq 3):

Is grilling or roasting done?

%	N	VALUE	LABEL
72.5	37	1	Yes
27.5	14	5	No
	425	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/77

ic13: Restaurant: oil frying

QUESTION ASKED IF RESTAURANT ('ci3' eq 3):

Is oil frying done?

(INTERVIEW SKIPS TO 'fdA1' AFTER ANSWERING)

%	N	VALUE	LABEL
72.5	37	1	Yes
27.5	14	5	No
	425	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 2/78

Cooking Appliances: Food stores

ic15: Food store: use cooking appliances

QUESTION ASKED IF FOOD STORE ('ci3' eq 4):

Are there any toasters, microwave ovens, or other cooking appliances used in the space?

%	N	VALUE	LABEL
100.0	10	1	Yes
	1	9	Ref/MD
	465	.	Blank - DNA

100.0 476 cases

Record/column: 2/79

ic17: Food store: film processing

QUESTION ASKED IF FOOD STORE ('ci3' eq 4):

Is film processing done there?

(INTERVIEW SKIPS TO 'fdA1' AFTER ANSWERING)

%	N	VALUE	LABEL
10.0	1	1	Yes
90.0	9	5	No
	1	9	Ref/MD
	465	.	Blank - DNA

100.0 476 cases

Record/column: 2/80

Cooking Appliances: Retail Stores Type

ic19: Retail: use cooking appliances

QUESTION ASKED IF RETAIL ('ci3' eq 5):

Are there any toasters, microwave ovens, or other cooking appliances used in the space?

%	N	VALUE	LABEL
82.8	48	1	Yes
17.2	10	5	No
	1	8	DK
	1	9	Ref/MD
	416	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/81

ic21: Retail: has restaurant/cafe

QUESTION ASKED IF RETAIL ('ci3' eq 5):

Is there a restaurant, cafe', or cafeteria in this space?

%	N	VALUE	LABEL
13.6	8	1	Yes
86.4	51	5	No (SKIP TO 'ic22')
	1	9	Ref/MD (SKIP TO 'ic22')
	416	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/82

ic21a: Retail: ovens used

QUESTION ASKED IF BUSINESS HAS RESTAURANT ('ic21' eq 1):

Are ovens used in this space?

%	N	VALUE	LABEL
75.0	6	1	Yes
25.0	2	5	No (SKIP TO 'ic21b')
	468	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/83

ic21aa_1: Retail: type of oven-gas

QUESTION ASKED IF OVENS USED ('ic21a' eq 1):

What type of fuel is used for this/these ovens?

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

Gas

%	N	VALUE	LABEL
40.0	2	1	Yes
60.0	3	5	No
	1	8	DK
	470	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/84

ic21aa_2: Retail: type of oven-electric

QUESTION ASKED IF OVENS USED ('ic21a' eq 1):

Electricity

(See 'ic21aa_1' for full text of this form.)

%	N	VALUE	LABEL
100.0	5	1	Yes
	1	8	DK
	470	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/85

ic21aa_3: Retail: type of oven-other

QUESTION ASKED IF OVENS USED ('ic21a' eq 1):

Other (SPECIFY)

(See 'ic21aa_1' for full text of this form.)

%	N	VALUE	LABEL
100.0	5	5	No
	1	8	DK
	470	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/86

ic21b: Retail: grilling or roasting

QUESTION ASKED IF BUSINESS HAS RESTAURANT ('ic21' eq 1):

Is grilling or roasting done?

%	N	VALUE	LABEL
50.0	4	1	Yes
50.0	4	5	No
	468	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 2/87

ic21c: Retail: oil frying

QUESTION ASKED IF BUSINESS HAS RESTAURANT ('ic21' eq 1):

Is oil frying done?

%	N	VALUE	LABEL
50.0	4	1	Yes
50.0	4	5	No
	468	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 2/88

TYPE OF RETAIL STORES

ic22: Retail: type of retail

QUESTION ASKED IF RETAIL ('ci3' eq 5):

What type of retail store is this?

%	N	VALUE	LABEL
13.6	8	1	Multi-purpose (Target, Walmart, Kmart)
6.8	4	2	Clothing store (SKIP TO 'fdA1')
1.7	1	4	Drug store (SKIP TO 'ic22c')
5.1	3	5	Hardware (SKIP TO 'ic22b')
1.7	1	7	Furniture (SKIP TO 'ic22a')
1.7	1	9	Flooring (SKIP TO 'fdA1')
3.4	2	10	Bookstore (SKIP TO 'fdA1')
3.4	2	11	Department store (SKIP TO 'fdA1')
62.7	37	12	Other (SPECIFY) (SKIP TO 'fdA1']
	1	99	Ref/MD
	416	.	Blank - DNA
-----	----		
100.0	476		cases

Record/columns: 2/89-90

ic22a: Retail: solvents used

QUESTION ASKED IF MULTI-PURPOSE RETAIL ('ic22' eq 1):

Are solvents such as turpentine, ammonia, or acetone used in this space?

%	N	VALUE	LABEL
100.0	8	5	No
	1	8	DK
	1	9	Ref/MD
	466	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/91

ic22b: Retail: grinding/sanding/buffing

QUESTION ASKED IF MULTI-PURPOSE RETAIL OR HARDWARE
('ic22' eq 1 OR 'ic22' eq 5):

Is grinding, sanding, or buffing performed?

%	N	VALUE	LABEL
36.4	4	1	Yes
63.6	7	5	No
	1	9	Ref/MD
	464	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/92

ic22c: Retail: film processing

QUESTION ASKED IF MULTI-PURPOSE RETAIL OR DRUG STORE
('ic22' eq 1 OR 'ic22' eq 4):

Is film processing done there?

%	N	VALUE	LABEL
22.2	2	1	Yes
77.8	7	5	No
	1	9	Ref/MD
	466	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/93

ic22d: Retail: tires stored

QUESTION ASKED IF MULTI-PURPOSE RETAIL ('ic22' eq 1):

Are there tires stored there?

(INTERVIEW SKIPS TO 'fdA1' AFTER ANSWERING)

%	N	VALUE	LABEL
100.0	8	5	No
	1	9	Ref/MD
	467	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/94

Cooking Appliances: Health-care offices

ic23: Health care: use cooking appliances

QUESTION ASKED IF HEALTH CARE ('ci3' eq 2):

Are there any toasters, microwave ovens, or other cooking appliances used in the space?

%	N	VALUE	LABEL
95.7	44	1	Yes
4.3	2	5	No
	1	8	DK
	2	9	Ref/MD
	427	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/95

ic23a: Health care: has restaurant

QUESTION ASKED IF HEALTH CARE ('ci3' eq 2):

Is there a restaurant, cafe', or cafeteria in this space?

%	N	VALUE	LABEL
6.4	3	1	Yes
93.6	44	5	No (SKIP TO 'ic23e')
	2	9	Ref/MD (SKIP TO 'ic23e')
	427	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/96

ic23b: Health care: ovens used

QUESTION ASKED IF BUSINESS HAS RESTAURANT ('ic23a' eq 1):

Are ovens used in this space?

%	N	VALUE	LABEL
66.7	2	1	Yes
33.3	1	5	No (SKIP TO 'ic23c')
	473	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/97

ic23ba_1: Health care: type of oven-gas

QUESTION ASKED IF OVENS USED ('ic23b' eq 1):

What type of fuel is used for this/these ovens?

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

Gas

%	N	VALUE	LABEL
100.0	2	1	Yes
	474	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/98

ic23ba_2: Health care: type of oven-electric

QUESTION ASKED IF OVENS USED ('ic23b' eq 1):

Electricity

(See 'ic23ba_1' for full text of this form.)

%	N	VALUE	LABEL
100.0	2	5	No
	474	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/99

ic23ba_3: Health care: type of oven-other

QUESTION ASKED IF OVENS USED ('ic23b' eq 1):

Other

(See 'ic23ba_1' for full text of this form.)

%	N	VALUE	LABEL
100.0	2	5	No
	474	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/100

ic23c: Health care: grilling or roasting

QUESTION ASKED IF BUSINESS HAS RESTAURANT ('ic23a' eq 1):

Is grilling or roasting done?

%	N	VALUE	LABEL
66.7	2	1	Yes
33.3	1	5	No
	473	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/101

ic23d: Health care: oil frying

QUESTION ASKED IF BUSINESS HAS RESTAURANT ('ic23a' eq 1):

Is oil frying done?

%	N	VALUE	LABEL
33.3	1	1	Yes
66.7	2	5	No
	473	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/102

ic23e: Health care: solvents used

QUESTION ASKED IF HEALTH CARE ('ci3' eq 2):

Are solvents such as turpentine, ammonia, or acetone used
in this space?

%	N	VALUE	LABEL
9.3	4	1	Yes
90.7	39	5	No
	4	8	DK
	2	9	Ref/MD
	427	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/103

ic23f: Health care: grinding/sanding/buffing

QUESTION ASKED IF HEALTH CARE ('ci3' eq 2):

Is grinding, sanding, or buffing performed?

%	N	VALUE	LABEL
25.5	12	1	Yes
74.5	35	5	No
	2	9	Ref/MD
	427	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/104

ic23g: Health care: film processing

QUESTION ASKED IF HEALTH CARE ('ci3' eq 2):

Is film processing done there?

(INTERVIEW SKIPS TO 'fdA1' AFTER ANSWERING)

%	N	VALUE	LABEL
19.1	9	1	Yes
80.9	38	5	No
	2	9	Ref/MD
	427	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/105

Cooking Appliances: Lodging businesses

ic24: Lodging: use cooking appliances

IF LODGING ('ci3' eq 6):

Are there any toasters, microwave ovens, or other cooking
appliances used in the space?

%	N	VALUE	LABEL
80.0	4	1	Yes
20.0	1	5	No
	471	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/106

ic24a: Lodging: has restaurant

IF LODGING ('ci3' eq 6):

Is there a restaurant, cafe', or cafeteria in this space?

%	N	VALUE	LABEL
100.0	5	1	Yes
	471	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/107

ic24b: Lodging: ovens used

QUESTION ASKED IF BUSINESS HAS RESTAURANT ('ic24a' eq 1):

Are ovens used in this space?

%	N	VALUE	LABEL
100.0	5	1	Yes
	471	.	Blank - DNA

100.0 476 cases

Record/column: 2/108

ic24ba_1: Lodging: type of oven-gas

QUESTION ASKED IF OVENS USED ('ic24b' eq 1):

What type of fuel is used for this/these ovens?

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

Gas

%	N	VALUE	LABEL
100.0	5	1	Yes
	471	.	Blank - DNA

100.0 476 cases

Record/column: 2/109

ic24ba_2: Lodging: type of oven-electric

QUESTION ASKED IF OVENS USED ('ic24b' eq 1):

Electricity

(See 'ic24ba_1' for full text of this form.)

%	N	VALUE	LABEL
40.0	2	1	Yes
60.0	3	5	No
	471	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/110

ic24ba_3: Lodging: type of oven-other

QUESTION ASKED IF OVENS USED ('ic24b' eq 1):

Other

(See 'ic24ba_1' for full text of this form.)

%	N	VALUE	LABEL
100.0	5	5	No
	471	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/111

ic24c: Lodging: grilling or roasting

QUESTION ASKED IF BUSINESS HAS RESTAURANT ('ic24a' eq 1):

Is grilling or roasting done?

%	N	VALUE	LABEL
80.0	4	1	Yes
20.0	1	5	No
	471	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/112

ic24d: Lodging: oil frying

QUESTION ASKED IF BUSINESS HAS RESTAURANT ('ic24a' eq 1):

Is oil frying done?

%	N	VALUE	LABEL
100.0	4	1	Yes
	1	8	DK
	471	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/113

Cooking Appliances: Public assembly businesses

ic25: Public Assembly: use cooking appliances

IF PUBLIC ASSEMBLY ('ci3' eq 6):

Are there any toasters, microwave ovens, or other cooking
appliances used in the space?

%	N	VALUE	LABEL
68.4	13	1	Yes
31.6	6	5	No
	457	.	Blank - DNA

100.0 476 cases

Record/column: 2/114

ic25b: Public Assembly: has restaurant

IF PUBLIC ASSEMBLY ('ci3' eq 6):

Is there a restaurant, cafe', or cafeteria in this space?

%	N	VALUE	LABEL
50.0	9	1	Yes
50.0	9	5	No (SKIP TO 'fdA1')
	1	9	Ref/MD (SKIP TO 'fdA1')
	457	.	Blank - DNA

100.0 476 cases

Record/column: 2/115

ic25c: Public Assembly: ovens used

QUESTION ASKED IF BUSINESS HAS RESTAURANT ('ic25b' eq 1):

Are ovens used in this space?

%	N	VALUE	LABEL	
88.9	8	1	Yes	
11.1	1	5	No	(SKIP TO 'ic25d')
	467	.	Blank - DNA	
-----	---			
100.0	476		cases	

Record/column: 2/116

ic25ca_1: Public Assembly: type of oven-gas

QUESTION ASKED IF OVENS USED ('ic25c' eq 1):

What type of fuel is used for this/these ovens?

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

Gas

%	N	VALUE	LABEL	
75.0	6	1	Yes	
25.0	2	5	No	
	468	.	Blank - DNA	
-----	---			
100.0	476		cases	

Record/column: 2/117

ic25ca_2: Public Assembly: type of oven-electric

QUESTION ASKED IF OVENS USED ('ic25c' eq 1):

Electricity

(See 'ic25ca_1' for full text of this form.)

%	N	VALUE	LABEL
37.5	3	1	Yes
62.5	5	5	No
	468	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/118

ic25ca_3: Public Assembly: type of oven-other

QUESTION ASKED IF OVENS USED ('ic25c' eq 1):

Other

(See 'ic25ca_1' for full text of this form.)

%	N	VALUE	LABEL
100.0	8	5	No
	468	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/119

ic25d: Public Assembly: grilling or roasting

QUESTION ASKED IF BUSINESS HAS RESTAURANT ('ic25b' eq 1):

Is grilling or roasting done?

%	N	VALUE	LABEL
66.7	6	1	Yes
33.3	3	5	No
	467	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/120

ic25e: Public Assembly: oil frying

QUESTION ASKED IF BUSINESS HAS RESTAURANT ('ic25b' eq 1):

Is oil frying done?

%	N	VALUE	LABEL
33.3	3	1	Yes
66.7	6	5	No (SKIP TO 'fdA1')
	467	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/121

Cooking Appliances: Auto repair - No gasoline sales

ic26: Auto Repair: use cooking appliances

QUESTION ASKED IF AUTO REPAIR WITH NO GASOLINE
SALES ('ci3h' eq 1):

Are there any toasters, microwave ovens, or other cooking
appliances used in the space?

%	N	VALUE	LABEL
60.0	3	1	Yes
40.0	2	5	No
	471	.	Blank - DNA

100.0 476 cases

Record/column: 2/122

ic26b: Auto Repair: solvents used

QUESTION ASKED IF AUTO REPAIR WITH NO GASOLINE
SALES ('ci3h' eq 1):

Are solvents such as turpentine, ammonia, or acetone used
in this space?

%	N	VALUE	LABEL
20.0	1	1	Yes
80.0	4	5	No
	471	.	Blank - DNA

100.0 476 cases

Record/column: 2/123

ic26c: Auto Repair: grinding/sanding/buffing

QUESTION ASKED IF AUTO REPAIR WITH NO GASOLINE
SALES ('ci3h' eq 1):

Is grinding, sanding, or buffing performed?

%	N	VALUE	LABEL
60.0	3	1	Yes
40.0	2	5	No
	471	.	Blank - DNA

100.0 476 cases

Record/column: 2/124

ic26d: Auto Repair: tires stored

QUESTION ASKED IF AUTO REPAIR WITH NO GASOLINE
SALES ('ci3h' eq 1):

Are there tires stored in this space?

%	N	VALUE	LABEL
80.0	4	1	Yes
20.0	1	5	No
	471	.	Blank - DNA

100.0 476 cases

Record/column: 2/125

Cooking Appliances: Gas stations

ic27: Gas station: use cooking appliances

QUESTION ASKED IF GAS STATION ('ci3h' eq 2):

Are there any toasters, microwave ovens, or other cooking appliances used in the space?

%	N	VALUE	LABEL
66.7	2	1	Yes
33.3	1	5	No
	473	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/126

ic27b: Gas station: has restaurant

QUESTION ASKED IF GAS STATION ('ci3h' eq 2):

Is there a restaurant, cafe', or cafeteria in this space?

%	N	VALUE	LABEL
100.0	3	5	No
	473	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/127

ic27c: Gas station: ovens usedQUESTION ASKED IF GAS STATION ('ci3h' eq 2):

Are ovens used in this space?

%	N	VALUE	LABEL
	476	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 2/128

ic27ca_1: Gas station: type of oven-gasQUESTION ASKED IF OVENS USED ('ic27c' eq 1):

What type of fuel is used for this/these ovens?

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

%	N	VALUE	LABEL
	476	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 2/129

ic27ca_2: Gas station: type of oven-electric

QUESTION ASKED IF OVENS USED ('ic27c' eq 1):

Electricity

(See 'ic27ca_1' for full text of this form.)

%	N	VALUE	LABEL
	476	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/130

ic27ca_3: Gas station: type of oven-other

QUESTION ASKED IF OVENS USED ('ic27c' eq 1):

Other (SPECIFY)

(See 'ic27ca_1' for full text of this form.)

%	N	VALUE	LABEL
	476	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/131

ic27d: Gas station: grilling or roasting

QUESTION ASKED IF BUSINESS HAS RESTAURANT ('ic27b' eq 1):

Is grilling or roasting done?

%	N	VALUE	LABEL
	476	.	Blank - DNA

----- ---
100.0 476 cases

Record/column: 2/132

ic27e: Gas station: oil frying

QUESTION ASKED IF BUSINESS HAS RESTAURANT ('ic27b' eq 1):

Is oil frying done?

%	N	VALUE	LABEL
	476	.	Blank - DNA

----- ---
100.0 476 cases

Record/column: 2/133

ic27h: Gas station: tires stored

QUESTION ASKED IF GAS STATION ('ci3h' eq 2):

Are there tires stored in this space?

%	N	VALUE	LABEL
100.0	3	5	No
	473	.	Blank - DNA

----- ---
100.0 476 cases

Record/column: 2/134

ic27j: Gas station: solvents used

QUESTION ASKED IF GAS STATION ('ci3h' eq 2):

Are solvents such as turpentine, ammonia, or acetone used
in this space?

%	N	VALUE	LABEL
100.0	2	5	No
	1	8	DK
	473	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 2/135

ic27i: Gas station: has convenience store

QUESTION ASKED IF GAS STATION ('ci3h' eq 2):

Is there a convenience store that is part of this gas station?

%	N	VALUE	LABEL
100.0	3	1	Yes
	473	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 2/136

ic27k: Gas station: perform automotive work

QUESTION ASKED IF GAS STATION ('ci3h' eq 2):

Does this gas station perform automotive work?

%	N	VALUE	LABEL
100.0	3	5	No
	473	.	Blank - DNA

100.0 476 cases

Record/column: 2/137

ic27l_1: Automotive work: brakes

QUESTION ASKED IF AUTOMOTIVE WORK DONE ('ic27k' eq 1):

What automotive work is performed at this gas station?

(READ EACH AND CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

Brakes

%	N	VALUE	LABEL
	476	.	Blank - DNA

100.0 476 cases

Record/column: 2/138

ic27l_2: Automotive work: tires

QUESTION ASKED IF AUTOMOTIVE WORK DONE ('ic27k' eq 1):

Tires

(See 'ic27l_1' for full text of this form.)

%	N	VALUE	LABEL
	476	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/139

ic27l_3: Automotive work: body work/paint

QUESTION ASKED IF AUTOMOTIVE WORK DONE ('ic27k' eq 1):

Body work or paint

(See 'ic27l_1' for full text of this form.)

%	N	VALUE	LABEL
	476	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/140

ic27l_4: Automotive work: oil changes

QUESTION ASKED IF AUTOMOTIVE WORK DONE ('ic27k' eq 1):

Oil changes

(See 'ic27l_1' for full text of this form.)

%	N	VALUE	LABEL
	476	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/141

ic27l_5: Automotive work: general auto repair

QUESTION ASKED IF AUTOMOTIVE WORK DONE ('ic27k' eq 1):

General auto repair

(See 'ic27l_1' for full text of this form.)

%	N	VALUE	LABEL
	476	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/142

ic27l_6: Automotive work: cleaning or detailingQUESTION ASKED IF AUTOMOTIVE WORK DONE ('ic27k' eq 1):

Cleaning or detailing

(See 'ic27l_1' for full text of this form.)

%	N	VALUE	LABEL
	476	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/143

ic27l_7: Automotive work: otherQUESTION ASKED IF AUTOMOTIVE WORK DONE ('ic27k' eq 1):

Other (SPECIFY)

(See 'ic27l_1' for full text of this form.)

%	N	VALUE	LABEL
	476	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/144

Cooking Appliances: Non-automotive service businesses

ic28: Services: use cooking appliances

QUESTION ASKED IF NON-AUTOMOTIVE SERVICES OR OTHER ('ci3h' eq 3 OR 'ci3h' eq 4):

Are there any toasters, microwave ovens, or other cooking appliances used in the space?

%	N	VALUE	LABEL
	476	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/145

ic28b: Services: type of service

QUESTION ASKED IF NON-AUTOMOTIVE SERVICES OR OTHER ('ci3h' eq 3 OR 'ci3h' eq 4):

What service is provided at this business?

%	N	VALUE	LABEL
	476	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/146

Cooking Appliances: Assembly/Light manufacturing

ic30: Assembly/manufacturing: use cooking appliances

QUESTION ASKED IF ASSEMBLY/LIGHT MANUFACTURING ('ci3i' eq 1):

Are there any toasters, microwave ovens, or other cooking appliances used in the space?

%	N	VALUE	LABEL
100.0	5	1	Yes
	471	.	Blank - DNA

100.0 476 cases

Record/column: 2/147

ic30b: Assembly/manufacturing: use solvents

QUESTION ASKED IF ASSEMBLY/LIGHT MANUFACTURING ('ci3i' eq 1):

Are solvents such as turpentine, ammonia, or acetone used in this space?

%	N	VALUE	LABEL
20.0	1	1	Yes
80.0	4	5	No
	471	.	Blank - DNA

100.0 476 cases

Record/column: 2/148

ic30c: Assembly/manufacturing: grinding/sanding/buffing

QUESTION ASKED IF ASSEMBLY/LIGHT MANUFACTURING ('ci3i' eq 1):

Is grinding, sanding, or buffing performed?

%	N	VALUE	LABEL
60.0	3	1	Yes
40.0	2	5	No
	471	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/149

ic30d: Assembly/manufacturing: x-ray/film processing

QUESTION ASKED IF ASSEMBLY/LIGHT MANUFACTURING ('ci3i' eq 1):

Are X-rays or film processing done there?

%	N	VALUE	LABEL
100.0	5	5	No
	471	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/150

ic30e: Assembly/manufacturing: tires stored

QUESTION ASKED IF ASSEMBLY/LIGHT MANUFACTURING ('ci3i' eq 1):

Are there tires stored in this space?

%	N	VALUE	LABEL
100.0	5	5	No
	471	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/151

Cooking Appliances: Police/fire/post office

ic31: Miscellaneous: use cooking appliances

QUESTION ASKED IF OTHER/MISCELLANEOUS BUSINESS ('ci3i' ge 2 OR
'ci3' eq 10):

Are there any toasters, microwave ovens, or other cooking
appliances used in the space?

%	N	VALUE	LABEL
94.7	143	1	Yes
5.3	8	5	No
	1	8	DK
	324	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/152

ic31b: Miscellaneous: ovens used

QUESTION ASKED IF OTHER/MISCELLANEOUS BUSINESS ('ci3i' ge 2 OR
'ci3' eq 10):

Are ovens used in this space?

%	N	VALUE	LABEL
27.2	41	1	Yes
72.8	110	5	No
	1	9	Ref/MD
	324	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/153

ic31ba_1: Miscellaneous: type of oven-gas

QUESTION ASKED IF OVENS USED ('ic31b' eq 1):

What type of fuel is used for this/these ovens?

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

Gas

%	N	VALUE	LABEL
61.5	24	1	Yes
38.5	15	5	No
	2	8	DK
	435	.	Blank - DNA

100.0 476 cases

Record/column: 2/154

ic31ba_2: Miscellaneous: type of oven-electric

QUESTION ASKED IF OVENS USED ('ic31b' eq 1):

Electricity

(See 'ic31ba_1' for full text of this form.)

%	N	VALUE	LABEL
46.2	18	1	Yes
53.8	21	5	No
	2	8	DK
	435	.	Blank - DNA

100.0 476 cases

Record/column: 2/155

ic31ba_3: Miscellaneous: type of oven-other

QUESTION ASKED IF OVENS USED ('ic31b' eq 1):

Other (SPECIFY)

(See 'ic31ba_1' for full text of this form.)

%	N	VALUE	LABEL
5.1	2	1	Yes
94.9	37	5	No
	2	8	DK
	435	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/156

ic31c: Miscellaneous: grilling or roasting

QUESTION ASKED IF OTHER/MISCELLANEOUS BUSINESS ('ci3i' ge 2 OR 'ci3' eq 10):

Is grilling or roasting done?

%	N	VALUE	LABEL
13.9	21	1	Yes
86.1	130	5	No
	1	9	Ref/MD
	324	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/157

ic31d: Miscellaneous: oil frying

QUESTION ASKED IF OTHER/MISCELLANEOUS BUSINESS ('ci3i' ge 2 OR
'ci3' eq 10):

Is oil frying done?

%	N	VALUE	LABEL
11.9	18	1	Yes
88.1	133	5	No
	1	9	Ref/MD
	324	.	Blank - DNA

100.0 476 cases

Record/column: 2/158

Fire Damage: 1st floor

fdA1: 1st floor: any fire damage

Has there ever been any fire damage in the FIRST floor space?

%	N	VALUE	LABEL	
2.1	10	1	Yes	
97.9	457	5	No	(SKIP TO 'brA1')
	3	8	DK	(SKIP TO 'brA1')
	6	9	Ref/MD	(SKIP TO 'brA1')
-----	---			
100.0	476		cases	

Record/column: 2/159

fdA1a_mo: 1st floor: fire damage-month

QUESTION ASKED IF FIRE DAMAGE ON 2ND FLOOR ('fdA1' eq 1):

In what month and year did the fire damage occur on the FIRST floor?

Month (1-12)

%	N	VALUE	LABEL
20.0	1	1	
20.0	1	4	
20.0	1	5	
20.0	1	10	
20.0	1	12	
	5	98	DK
	466	.	Blank - DNA
-----	---		
100.0	476		cases

Record/columns: 2/160-161

fdA1a_yr: 1st floor: fire damage-year

Year (1979-2008)

(See 'fdA1a_mo' for full text of this form.)

%	N	VALUE	LABEL
11.1	1	1995	
11.1	1	2002	
11.1	1	2003	
33.3	3	2004	
11.1	1	2005	
22.2	2	2007	
	1	9998	DK
	466	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/columns: 2/162-165

Building Renovations: 1st Floor

brA1: 1st floor: any interior painting

Has there been any interior painting done in the first floor space in the last year?

%	N	VALUE	LABEL
42.9	201	1	Yes
57.1	268	5	No
	1	8	DK
	6	9	Ref/MD

----- ---

100.0 476 cases

Record/column: 2/166

brA2: 1st floor: any new carpet installed

Has new carpet been installed in the first floor space in the last year?

%	N	VALUE	LABEL
17.3	81	1	Yes
82.7	388	5	No (SKIP TO 'brA3')
	1	8	DK (SKIP TO 'brA3')
	6	9	Ref/MD (SKIP TO 'brA3')

----- ---

100.0 476 cases

Record/column: 2/167

brA2b_1: 1st floor: new carpet type-natural fiber

QUESTION ASKED IF CARPET INSTALLED ON 1ST FLOOR ('brA2' eq 1):

What type of carpet was installed? (READ CODES)

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

Natural fiber carpet? (e.g., wool, sisal)

%	N	VALUE	LABEL
100.0	40	5	No
	41	8	DK
	395	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/168

brA2b_2: 1st floor: new carpet type-nylon

QUESTION ASKED IF CARPET INSTALLED ON 1ST FLOOR ('brA2' eq 1):

Nylon?

(See 'brA2b_1' for full text of this form.)

%	N	VALUE	LABEL
77.8	28	1	Yes
22.2	8	5	No
	45	8	DK
	395	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/169

brA2b_3: 1st floor: new carpet type-olefin

QUESTION ASKED IF CARPET INSTALLED ON 1ST FLOOR ('brA2' eq 1):

Olefin? (polypropylene)

(See 'brA2b_1' for full text of this form.)

%	N	VALUE	LABEL
17.1	6	1	Yes
82.9	29	5	No
	46	8	DK
	395	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/170

brA2bb: 1st floor: type of carpet backing

QUESTION ASKED IF CARPET INSTALLED ON 1ST FLOOR ('brA2' eq 1):

Does it have styrene-butadiene backed carpet, CRI Green Label, CRI Green Label Plus, or some other kind?

%	N	VALUE	LABEL
7.1	1	1	Styrene-butadiene
21.4	3	2	CRI Green Label
71.4	10	4	Other (SPECIFY)
	67	8	DK
	395	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/171

brA2c: 1st floor: type of carpet padding

QUESTION ASKED IF CARPET INSTALLED ON 1ST FLOOR ('brA2' eq 1):

What type of material is in the carpet pad, if there is a pad?

%	N	VALUE	LABEL
5.4	3	1	Rubberized or resinated fiber
3.6	2	2	Rubber and reinforced rubber
3.6	2	3	Polyurethane foam
80.4	45	4	There is NO carpet pad
7.1	4	5	Something else (SPECIFY)
	24	8	DK
	1	9	Ref/MD
	395	.	Blank - DNA

----- ---
100.0 476 cases

Record/column: 2/172

brA3: 1st floor: any new furniture installed

Has any new furniture been installed in the space in the last year?

%	N	VALUE	LABEL
21.6	99	1	Yes
78.4	359	5	No (SKIP TO 'csA1')
	11	8	DK (SKIP TO 'csA1')
	7	9	Ref/MD (SKIP TO 'csA1')

----- ---
100.0 476 cases

Record/column: 2/173

brA3b_1: 1st floor: furniture type-solid wood

QUESTION ASKED IF NEW FURNITURE ON 1ST FLOOR ('brA3' eq 1):

What type of materials are in the furniture that was installed?

(READ EACH AND CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

Solid wood (raw, wood finish or painted)

%	N	VALUE	LABEL
44.7	42	1	Yes
55.3	52	5	No
	5	8	DK
	377	.	Blank - DNA

100.0 476 cases

Record/column: 2/174

brA3b_2: 1st floor: furniture type-composite w/ veneer

QUESTION ASKED IF NEW FURNITURE ON 1ST FLOOR ('brA3' eq 1):

Composite wood product with wood or synthetic veneer

(See 'brA3b_1' for full text of this form.)

%	N	VALUE	LABEL
46.2	43	1	Yes
53.8	50	5	No
	6	8	DK
	377	.	Blank - DNA

100.0 476 cases

Record/column: 2/175

brA3b_3: 1st floor: furniture type-encapsulated composite

QUESTION ASKED IF NEW FURNITURE ON 1ST FLOOR ('brA3' eq 1):

Fully encapsulated composite wood construction

(See 'brA3b_1' for full text of this form.)

%	N	VALUE	LABEL
15.9	14	1	Yes
84.1	74	5	No
	11	8	DK
	377	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/176

brA3b_4: 1st floor: furniture type-metal/plastic

QUESTION ASKED IF NEW FURNITURE ON 1ST FLOOR ('brA3' eq 1):

Metal and/or Plastic

(See 'brA3b_1' for full text of this form.)

%	N	VALUE	LABEL
57.0	53	1	Yes
43.0	40	5	No
	6	8	DK
	377	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/177

brA3b_5: 1st floor: furniture type-otherQUESTION ASKED IF NEW FURNITURE ON 1ST FLOOR ('brA3' eq 1):

Other (SPECIFY)

(See 'brA3b_1' for full text of this form.)

%	N	VALUE	LABEL
15.1	14	1	Yes (SPECIFY)
84.9	79	5	No
	6	8	DK
	377	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/178

Cleaning Schedule: 1st Floor

csA1: 1st floor: cleaned on regular schedule

Is the space cleaned on a regular schedule?

%	N	VALUE	LABEL	
98.7	459	1	Yes	
1.3	6	5	No	(SKIP TO 'csA2')
	4	8	DK	(SKIP TO 'csA2')
	7	9	Ref/MD	(SKIP TO 'csA2')

100.0 476 cases

Record/column: 2/179

csA1a: 1st floor: cleaned while occupied

QUESTION ASKED IF CLEANED ON REGULAR SCHEDULE ON 1ST FLOOR ('csA1'
eq 1):

Is the cleaning done during occupied or unoccupied hours?

%	N	VALUE	LABEL
22.9	105	1	Occupied
54.1	248	2	Unoccupied
22.5	103	3	Both
0.4	2	4	Other
	1	8	DK
	17	.	Blank - DNA

100.0 476 cases

Record/column: 2/180

csA1b: 1st floor: cleaned day or night

QUESTION ASKED IF CLEANED ON REGULAR SCHEDULE ON 1ST FLOOR ('csA1'
eq 1):

Is the cleaning done during the day or at night?

%	N	VALUE	LABEL
28.4	130	1	Days
46.5	213	2	Nights
23.6	108	3	Both
1.5	7	4	Other
	1	8	DK
	17	.	Blank - DNA

100.0 476 cases

Record/column: 2/181

csA1c: 1st floor: cleaned by outside contractor

QUESTION ASKED IF CLEANED ON REGULAR SCHEDULE ON 1ST FLOOR ('csA1'
eq 1):

Is the cleaning done by an outside contractor?

%	N	VALUE	LABEL
59.6	273	1	Yes
40.4	185	5	No
	1	8	DK
	17	.	Blank - DNA

100.0 476 cases

Record/column: 2/182

csA1d_1: 1st floor: cleaned with wet mop

QUESTION ASKED IF CLEANED ON REGULAR SCHEDULE ON 1ST FLOOR ('csA1'
eq 1):

Are floors cleaned with a wet mop?

%	N	VALUE	LABEL
87.3	384	1	Yes
12.7	56	5	No
	19	8	DK
	17	.	Blank - DNA

100.0 476 cases

Record/column: 2/183

csA1d_2: 1st floor: how often cleaned with wet mop

QUESTION ASKED IF CLEANED WITH A WET MOP ('csA1d_1' eq 1):

How often are the floors cleaned with a wet mop?

(See 'csA1d_1' for full text of this form.)

%	N	VALUE	LABEL
59.4	227	1	Daily
18.3	70	2	Once a week
11.0	42	3	Twice a week
2.4	9	4	Every two weeks
0.5	2	5	Monthly
8.4	32	6	Other (SPECIFY)
	2	8	DK
	92	.	Blank - DNA

100.0 476 cases

Record/column: 2/184

csA1e_1: 1st floor: cleaned with dry mop

QUESTION ASKED IF CLEANED ON REGULAR SCHEDULE ON 1ST FLOOR ('csA1'
eq 1):

Are the floors cleaned with a dry mop?

%	N	VALUE	LABEL
43.8	178	1	Yes
56.2	228	5	No
	53	8	
	17	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 2/185

csA1e_2: 1st floor: how often cleaned with dry mop

QUESTION ASKED IF FLOORS CLEANED WITH A DRY MOP ('csA1e_1' eq 1):

How often are the floors cleaned with a dry mop?

(See 'csA1e_1' for full text of this form.)

%	N	VALUE	LABEL
74.0	131	1	Daily
8.5	15	2	Once a week
7.9	14	3	Twice a week
1.1	2	4	Every two weeks
1.1	2	5	Monthly
7.3	13	6	Other (SPECIFY)
	1	8	
	298	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 2/186

csA1f_1: 1st floor: cleaned with vacuum

QUESTION ASKED IF CLEANED ON REGULAR SCHEDULE ON 1ST FLOOR ('csA1' eq 1):

Is the cleaning done with a vacuum?

%	N	VALUE	LABEL
87.3	397	1	Yes
12.7	58	5	No
	4	8	DK
	17	.	Blank - DNA

100.0 476 cases

Record/column: 2/187

csA1f_2: 1st floor: how often cleaned with vacuum

QUESTION ASKED IF FLOORS CLEANED WITH A VACUUM ('csA1f_1' eq 1):

How often is the cleaning done with a vacuum?

(See 'csA1f_1' for full text of this form.)

%	N	VALUE	LABEL
56.1	221	1	Daily
20.3	80	2	Once a week
14.5	57	3	Twice a week
1.3	5	4	Every two weeks
1.0	4	5	Monthly
6.9	27	6	Other (SPECIFY)
	3	8	DK
	79	.	Blank - DNA

100.0 476 cases

Record/column: 2/188

csA1g_1: 1st floor: window cleaner used

QUESTION ASKED IF CLEANED ON REGULAR SCHEDULE ON 1ST FLOOR ('csA1'
eq 1):

Are any of the following cleaning materials used in
cleaning the space...

How about window cleaner?

%	N	VALUE	LABEL
88.8	389	1	Yes
11.2	49	5	No
	20	8	DK
	1	9	Ref/MD
	17	.	Blank - DNA

----- ---

100.0 476 cases

Record/column: 2/189

csA1g_1a: 1st floor: how often window cleaner used

QUESTION ASKED IF WINDOW CLEANER USED ('csA1g_1' eq 1):

How often?

%	N	VALUE	LABEL
36.1	137	1	Daily
23.0	87	2	Once a week
5.0	19	3	Twice a week
6.3	24	4	Every 2 weeks
13.2	50	5	Monthly
16.4	62	6	Other
	10	8	DK
	87	.	Blank - DNA

----- ---

100.0 476 cases

Record/column: 2/190

csAlg_2: 1st floor: furniture cleaner used

How about furniture cleaner?

(See 'csAlg_1' for full text of this form.)

%	N	VALUE	LABEL
38.4	165	1	Yes
61.6	265	5	No
	28	8	DK
	1	9	Ref/MD
	17	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 2/191

csAlg_2a: 1st floor: how often furniture cleaner used

QUESTION ASKED IF FURNITURE CLEANER USED ('csAlg_2' eq 1):

How often?

%	N	VALUE	LABEL
25.0	40	1	Daily
28.1	45	2	Once a week
8.8	14	3	Twice a week
4.4	7	4	Every 2 weeks
14.4	23	5	Monthly
19.4	31	6	Other
	5	8	DK
	311	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 2/192

csA1g_3: 1st floor: floor/furniture wax used

(How about) Floor or furniture wax?

(See 'csAlg_1' for full text of this form.)

%	N	VALUE	LABEL
39.5	170	1	Yes
60.5	260	5	No
	28	8	DK
	1	9	Ref/MD
	17	.	Blank - DNA

100.0 476 cases

Record/column: 2/193

csA1g_3a: 1st floor: how often floor/furn. wax used

QUESTION ASKED IF FLOOR/FURNITURE WAX USED ('csAlg_3' eq 1):

How often?

%	N	VALUE	LABEL
5.4	9	1	Daily
7.8	13	2	Once a week
2.4	4	3	Twice a week
5.4	9	4	Every 2 weeks
22.8	38	5	Monthly
56.3	94	6	Other
	3	8	DK
	306	.	Blank - DNA

100.0 476 cases

Record/column: 2/194

csA1g_4: 1st floor: bathroom cleaner used

(How about) Bathroom cleaner?

(See 'csA1g_1' for full text of this form.)

%	N	VALUE	LABEL
94.8	422	1	Yes
5.2	23	5	No
	13	8	DK
	1	9	Ref/MD
	17	.	Blank - DNA

100.0 476 cases

Record/column: 2/195

csA1g_4a: 1st floor: how often bathroom cleaner used

QUESTION ASKED IF BATHROOM CLEANER USED ('csB1g_4' eq 1):

How often?

%	N	VALUE	LABEL
67.5	282	1	Daily
15.6	65	2	Once a week
9.3	39	3	Twice a week
1.9	8	4	Every 2 weeks
0.7	3	5	Monthly
5.0	21	6	Other
	4	8	DK
	54	.	Blank - DNA

100.0 476 cases

Record/column: 2/196

csA1g_5: 1st floor: bleach used

(How about) Bleach?

(See 'csAlg_1' for full text of this form.)

%	N	VALUE	LABEL
36.3	143	1	Yes
63.7	251	5	No
	64	8	DK
	1	9	Ref/MD
	17	.	Blank - DNA

100.0 476 cases

Record/column: 2/197

csA1g_5a: 1st floor: how often bleach used

QUESTION ASKED IF BLEACH USED ('csAlg_5' eq 1):

How often?

%	N	VALUE	LABEL
55.1	76	1	Daily
16.7	23	2	Once a week
9.4	13	3	Twice a week
3.6	5	4	Every 2 weeks
5.8	8	5	Monthly
9.4	13	6	Other
	5	8	DK
	333	.	Blank - DNA

100.0 476 cases

Record/column: 2/198

csA1g_6: 1st floor: soap/detergent used

(How about) Soap or detergent?

(See 'csAlg_1' for full text of this form.)

%	N	VALUE	LABEL
81.7	344	1	Yes
18.3	77	5	No
	37	8	DK
	1	9	Ref/MD
	17	.	Blank - DNA

100.0 476 cases

Record/column: 2/199

csA1g_6a: 1st floor: how often soap/detergent used

QUESTION ASKED IF SOAP/DETERGENT USED ('csAlg_6' eq 1):

How often?

%	N	VALUE	LABEL
76.0	257	1	Daily
9.8	33	2	Once a week
7.7	26	3	Twice a week
2.4	8	4	Every 2 weeks
0.6	2	5	Monthly
3.6	12	6	Other
	6	8	DK
	132	.	Blank - DNA

100.0 476 cases

Record/column: 2/200

csA1g_7: 1st floor: carpet cleaner used

(How about) Carpet cleaners?

(See 'csAlg_1' for full text of this form.)

%	N	VALUE	LABEL
56.5	247	1	Yes
43.5	190	5	No
	21	8	DK
	1	9	Ref/MD
	17	.	Blank - DNA

100.0 476 cases

Record/column: 2/201

csA1g_7a: 1st floor: how often carpet cleaner used

QUESTION ASKED IF CARPET CLEANER USED ('csAlg_7' eq 1):

How often?

%	N	VALUE	LABEL
3.7	9	1	Daily
3.7	9	2	Once a week
0.8	2	3	Twice a week
2.0	5	4	Every 2 weeks
14.8	36	5	Monthly
75.0	183	6	Other
	3	8	DK
	229	.	Blank - DNA

100.0 476 cases

Record/column: 2/202

csA1h_1: 1st floor: other cleaning materials used

QUESTION ASKED IF CLEANED ON REGULAR SCHEDULE ON 1ST FLOOR ('csA1' eq 1):

Are any other cleaning materials used?

%	N	VALUE	LABEL
23.5	104	1	Yes
76.5	338	5	No
	16	8	DK
	1	9	Ref/MD
	17	.	Blank - DNA

----- ---
100.0 476 cases

Record/column: 2/203

csA1h_2: 1st floor: describe other cleaning materials

476 cases

Record/columns: 2/204-273

csA1i: 1st floor: propane floor buffers used

QUESTION ASKED IF FLOOR/FURNITURE WAX USED ('csA1g_3' eq 1):

Are propane floor buffers ever used?

%	N	VALUE	LABEL
13.9	23	1	Yes
86.1	142	5	No
	5	8	DK
	306	.	Blank - DNA

----- ---
100.0 476 cases

Record/column: 2/274

csA1q: 1st floor: effort to use green products

Is there any effort to use only "green" cleaning products?

%	N	VALUE	LABEL
49.6	185	1	Yes
50.4	188	5	No
	85	8	DK
	1	9	Ref/MD
	17	.	Blank - DNA

----- ---
100.0 476 cases

Record/column: 2/275

csA1r_1: 1st floor: cleaning materials kept in janitors closet

Where are cleaning materials kept on the first floor?

...in the janitor's closet?

%	N	VALUE	LABEL
57.9	263	1	Yes
42.1	191	5	No
	4	8	DK
	1	9	Ref/MD
	17	.	Blank - DNA

----- ---
100.0 476 cases

Record/column: 2/276

csA1r_2: 1st floor: cleaning materials kept in other closet

...in another closet?

(See 'csA1r_1' for full text of this form.)

%	N	VALUE	LABEL
7.5	34	1	Yes
92.5	419	5	No
	5	8	DK
	1	9	Ref/MD
	17	.	Blank - DNA

----- ---
100.0 476 cases

Record/column: 2/277

csA1r_3: 1st floor: cleaning materials kept in storage room

...in a storage room?

(See 'csA1r_1' for full text of this form.)

%	N	VALUE	LABEL
20.0	91	1	Yes
80.0	363	5	No
	4	8	DK
	1	9	Ref/MD
	17	.	Blank - DNA

----- ---
100.0 476 cases

Record/column: 2/278

csA1r_4: 1st floor: cleaning materials kept anywhere else

...anywhere else? (SPECIFY)

(See 'csA1r_1' for full text of this form.)

%	N	VALUE	LABEL
27.1	123	1	Yes (SPECIFY)
72.9	331	5	No
	4	8	DK
	1	9	Ref/MD
	17	.	Blank - DNA

100.0 476 cases

Record/column: 2/279

Regular Interior/Exterior Pesticide: 1st Floor

csA2: 1st floor: pesticide regularly applied

Is pesticide regularly applied to either the interior or to the exterior to the space?

%	N	VALUE	LABEL	
60.6	274	1	Yes	
39.4	178	5	No	(SKIP TO 'ivfA23')
	16	8	DK	(SKIP TO 'ivfA23')
	8	9	Ref/MD	(SKIP TO 'ivfA23')
-----	----			
100.0	476		cases	

Record/column: 2/280

csA2a_1: 1st floor: outside contractor applies pesticide

QUESTION ASKED IF PESTICIDE REGULARLY APPLIED ('csA2' eq 1):

Who applies the pesticide?

(READ EACH AND CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

Outside Contractor

%	N	VALUE	LABEL
96.0	261	1	Yes
4.0	11	5	No
	2	8	DK
	202	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/281

csA2a_2: 1st floor: building staff applies pesticide

Building staff

(See 'csA2a_1' for full text of this form.)

%	N	VALUE	LABEL
2.6	7	1	Yes
97.4	265	5	No
	2	8	DK
	202	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 2/282

csA2a_3: 1st floor: employee applies pesticide

Employees

(See 'csA2a_1' for full text of this form.)

%	N	VALUE	LABEL
2.2	6	1	Yes
97.8	265	5	No
	3	8	DK
	202	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 2/283

csA2a_4: 1st floor: other person applies pesticide

Other

(See 'csA2a_1' for full text of this form.)

%	N	VALUE	LABEL
1.5	4	1	Yes
98.5	267	5	No
	3	8	DK
	202	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 2/284

csA2b: 1st floor: how often exterior pesticide applied

QUESTION ASKED IF PESTICIDE REGULARLY APPLIED ('csA2' eq 1):

How often is exterior pesticide applied?

%	N	VALUE	LABEL
3.8	10	1	Weekly
64.2	167	2	Monthly
16.9	44	3	Quarterly
2.7	7	4	Semi-annually
11.2	29	5	Other (SPECIFY)
1.2	3	6	Not used
	14	8	DK
	202	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 2/285

csA2d: 1st floor: how often interior pesticide applied

QUESTION ASKED IF PESTICIDE REGULARLY APPLIED ('csA2' eq 1):

How often is INTERIOR pesticide applied?

%	N	VALUE	LABEL
1.1	3	1	Weekly
24.3	65	2	Monthly
8.6	23	3	Quarterly
4.1	11	4	Semi-annually
27.2	73	5	Other (SPECIFY)
34.7	93	6	Not used
	6	8	DK
	202	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/286

csA2g: 1st floor: pesticides stored on- or off-site

QUESTION ASKED IF PESTICIDE REGULARLY APPLIED ('csA2' eq 1):

Are the pesticides stored on-site or off-site?

%	N	VALUE	LABEL
4.1	7	1	On-site
95.9	165	5	Off-site
	3	8	DK
	301	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/287

csA2h_1: 1st floor: pesticides kept in janitors closet

QUESTION ASKED IF PESTICIDE STORED ON-SITE ('csA2g' eq 1):

Where are pesticides kept on the first floor?

...in the janitor's closet?

%	N	VALUE	LABEL
14.3	1	1	Yes
85.7	6	5	No
	469	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/288

csA2h_2: 1st floor: pesticides kept in another closet

...in another closet?

(See 'csA2h_1' for full text of this form.)

%	N	VALUE	LABEL
100.0	7	5	No
	469	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/289

csA2h_3: 1st floor: pesticides kept in storage room

...in a storage room?

(See 'csA2h_1' for full text of this form.)

%	N	VALUE	LABEL
57.1	4	1	Yes
42.9	3	5	No
	469	.	Blank - DNA

----- ---
100.0 476 cases

Record/column: 2/290

csA2h_4: 1st floor: pesticides kept anywhere else

...anywhere else? (SPECIFY)

(See 'csA2h_1' for full text of this form.)

%	N	VALUE	LABEL
42.9	3	1	Yes (SPECIFY)
57.1	4	5	No
	469	.	Blank - DNA

----- ---
100.0 476 cases

Record/column: 2/291

Indoor Ventilation Fixtures: 1st Floor

ivfA23_a: 1st floor: air cleaners used

Is any of the following space conditioning equipment used inside the first floor:

(READ EACH - CODE 1 IF USED - OTHERWISE CODE 5)

Air cleaners?

%	N	VALUE	LABEL
10.5	47	1	Yes
89.5	399	5	No
	22	8	DK
	8	9	Ref/MD
-----	---		
100.0	476	cases	

Record/column: 2/292

ivfA23_b: 1st floor: space heaters used

Space heaters?

(See 'ivfA23_a' for full text of this form.)

%	N	VALUE	LABEL
23.5	108	1	Yes
76.5	352	5	No
	8	8	DK
	8	9	Ref/MD
-----	---		
100.0	476	cases	

Record/column: 2/293

ivfA23_c: 1st floor: humidifiers used

Humidifiers?

(See 'ivfA23_a' for full text of this form.)

%	N	VALUE	LABEL
2.0	9	1	Yes
98.0	446	5	No
	13	8	DK
	8	9	Ref/MD
-----	---		
100.0	476	cases	

Record/column: 2/294

ivfA23_d: 1st floor: dehumidifiers used

Dehumidifiers?

(See 'ivfA23_a' for full text of this form.)

%	N	VALUE	LABEL
2.2	10	1	Yes
97.8	445	5	No
	13	8	DK
	8	9	Ref/MD
-----	---		
100.0	476	cases	

Record/column: 2/295

ivfA23_e: 1st floor: desk fans used

Desk fans?

(See 'ivfA23_a' for full text of this form.)

%	N	VALUE	LABEL
39.6	181	1	Yes
60.4	276	5	No
	11	8	DK
	8	9	Ref/MD
-----	---		
100.0	476	cases	

Record/column: 2/296

ivfA23a: 1st floor: number of air cleaners

QUESTION ASKED IF AIR CLEANERS USED ('ivfA23_a' eq 1):

How many air cleaners are used?

%	N	VALUE	LABEL
29.5	13	1	
29.5	13	2	
2.3	1	3	
9.1	4	4	
9.1	4	5	
6.8	3	6	
4.5	2	10	
4.5	2	12	
2.3	1	15	
2.3	1	17	
	3	998	DK
	429	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/columns: 2/297-299

ivfA23b_1: 1st floor: type of air cleaner-mechanical

QUESTION ASKED IF AIR CLEANERS USED ('ivfA23_a' eq 1):

Various types of air cleaners could be used. Tell me which ones are used on this floor:

(READ EACH - CODE 1 IF USED - CODE 5 IF NOT USED)

Mechanical?

%	N	VALUE	LABEL
43.6	17	1	Yes
56.4	22	5	No
	8	8	DK
	429	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/300

ivfA23b_2: 1st floor: type of air cleaner-pleated filters

Contain pleated filters?

(See 'ivfA23b_1' for full text of this form.)

%	N	VALUE	LABEL
35.0	14	1	Yes
65.0	26	5	No
	7	8	DK
	429	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/301

ivfA23b_3: 1st floor: type of air cleaner-ionizers

Ionizers?

(See 'ivfA23b_1' for full text of this form.)

%	N	VALUE	LABEL
12.8	5	1	Yes
87.2	34	5	No
	8	8	DK
	429	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 2/302

ivfA23b_4: 1st floor: type of air cleaner-electrostatic precipitators

Electrostatic precipitators?

(See 'ivfA23b_1' for full text of this form.)

%	N	VALUE	LABEL
15.8	6	1	Yes
84.2	32	5	No
	9	8	DK
	429	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 2/303

ivfA23b_5: 1st floor: type of air cleaner-ozone generators

Ozone generators?

(See 'ivfA23b_1' for full text of this form.)

%	N	VALUE	LABEL
5.0	2	1	Yes
95.0	38	5	No
	7	8	DK
	429	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/304

ivfA23b_6: 1st floor: type of air cleaner-other

Some other kind? (SPECIFY)

(See 'ivfA23b_1' for full text of this form.)

%	N	VALUE	LABEL
17.1	7	1	Yes (SPECIFY)
82.9	34	5	No
	6	8	DK
	429	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/305

ivfA25a: 1st floor: number of humidifiers

QUESTION ASKED IF HUMIDIFIERS USED ('ivfA23_c' eq 1):

How many humidifiers are used?

%	N	VALUE	LABEL
66.7	6	1	
11.1	1	2	
22.2	2	4	
	467	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/columns: 2/306-308

ivfA26a: 1st floor: number of dehumidifier

How many dehumidifiers are used?

%	N	VALUE	LABEL
50.0	3	1	
16.7	1	2	
16.7	1	6	
16.7	1	8	
	4	998	DK
	466	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/columns: 2/309-311

ivfA27a: 1st floor: number of desk fans

QUESTION ASKED IF DESK FANS ARE USED ('ivfA23_e' eq 1):

How many desk fans are used?

%	N	VALUE	LABEL
21.6	37	1	
18.1	31	2	
14.0	24	3	
9.4	16	4	
11.1	19	5	
5.3	9	6	
0.6	1	7	
0.6	1	8	
10.5	18	10	
1.8	3	12	
1.8	3	15	
2.3	4	20	
0.6	1	23	
0.6	1	30	
0.6	1	40	
0.6	1	45	
0.6	1	50	
	10	998	DK
	295	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/columns: 2/312-314

Fire Damage: 2nd Floor

fdB1: 2nd floor: any fire damage

IF COMPANY USES ONLY ONE FLOOR ('ci6' eq 1),
INTERVIEW PATH SKIPS TO 'ocl_a':

Has there ever been any fire damage in the SECOND floor space?

%	N	VALUE	LABEL
100.0	114	5	No (SKIP TO 'brB1')
	1	9	Ref/MD (SKIP TO 'brB1')
	361	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/315

fdB1a_mo: 2nd floor: fire damage-month

QUESTION ASKED IF FIRE DAMAGE ON 2ND FLOOR ('fdB1' eq 1):

In what month and year did the fire damage occur on the SECOND floor?

Month (1-12)

%	N	VALUE	LABEL
	476	.	Blank - DNA
-----	----		
100.0	476		cases

Record/columns: 2/316-317

fdB1a_yr: 2nd floor: fire damage-year

Year (1979-2008)

(See 'fdB1a_mo' for full text of this form.)

%	N	VALUE	LABEL
	476	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/columns: 2/318-321

Building Renovations: 2nd Floor

brB1: 2nd floor: any interior painting

Has there been any interior painting done in the SECOND floor space in the last year?

%	N	VALUE	LABEL
38.9	44	1	Yes
61.1	69	5	No
	1	8	DK
	1	9	Ref/MD
	361	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 2/322

brB2: 2nd floor: any new carpet installed

Has new carpet been installed in the SECOND floor space in the last year?

%	N	VALUE	LABEL
14.2	16	1	Yes
85.8	97	5	No (SKIP TO 'brA3')
	1	8	DK (SKIP TO 'brA3')
	1	9	Ref/MD (SKIP TO 'brA3')
	361	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 2/323

brB2b_1: 2nd floor: new carpet type-natural fiber

QUESTION ASKED IF CARPET INSTALLED ON 2ND FLOOR ('brB2' eq 1):

What type of carpet was installed? (READ CODES)

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

Natural fiber carpet? (e.g., wool, sisal)

%	N	VALUE	LABEL
100.0	8	5	No
	8	8	DK
	460	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/324

brB2b_2: 2nd floor: new carpet type-nylon

QUESTION ASKED IF CARPET INSTALLED ON 2ND FLOOR ('brB2' eq 1):

Nylon?

(See 'brB2b_1' for full text of this form.)

%	N	VALUE	LABEL
75.0	6	1	Yes
25.0	2	5	No
	8	8	DK
	460	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/325

brB2b_3: 2nd floor: new carpet type-olefin

QUESTION ASKED IF CARPET INSTALLED ON 2ND FLOOR ('brB2' eq 1):

Olefin? (polypropylene)

(See 'brB2b_1' for full text of this form.)

%	N	VALUE	LABEL
25.0	2	1	Yes
75.0	6	5	No
	8	8	DK
	460	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/326

brB2bb: 2nd floor: type of carpet backing

QUESTION ASKED IF CARPET INSTALLED ON 2ND FLOOR ('brB2' eq 1):

Does it have styrene-butadiene backed carpet, CRI Green Label, CRI Green Label Plus, or some other kind?

%	N	VALUE	LABEL
20.0	1	1	Styrene-butadiene
20.0	1	2	CRI Green Label
20.0	1	3	CRI Green Label Plus
40.0	2	4	Other (SPECIFY)
	11	8	DK
	460	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/327

brB2c: 2nd floor: type of carpet padding

QUESTION ASKED IF CARPET INSTALLED ON 2ND FLOOR ('brB2' eq 1):

What type of material is in the carpet pad, if there is a pad?

%	N	VALUE	LABEL
10.0	1	3	Polyurethane foam
70.0	7	4	No carpet pad
20.0	2	5	Something else (SPECIFY)
	6	8	DK
	460	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/328

brB3: 2nd floor: any new furniture installed

Has any new furniture been installed in the space in the last year?

%	N	VALUE	LABEL
17.9	20	1	Yes
82.1	92	5	No (SKIP TO 'csB1')
	2	8	DK (SKIP TO 'csB1')
	1	9	Ref/MD (SKIP TO 'csB1')
	361	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/329

brB3b_1: 2nd floor: furniture type-solid wood

QUESTION ASKED IF NEW FURNITURE ON 2ND FLOOR ('brB3' eq 1):

What type of materials are in the furniture that was installed?

(READ EACH AND CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

Solid wood (raw, wood finish or painted)

%	N	VALUE	LABEL
44.4	8	1	Yes
55.6	10	5	No
	2	8	DK
	456	.	Blank - DNA

100.0 476 cases

Record/column: 2/330

brB3b_2: 2nd floor: furniture type-composite w/ veneer

QUESTION ASKED IF NEW FURNITURE ON 2ND FLOOR ('brB3' eq 1):

Composite wood product with wood or synthetic veneer

(See 'brB3b_1' for full text of this form.)

%	N	VALUE	LABEL
61.1	11	1	Yes
38.9	7	5	No
	2	8	DK
	456	.	Blank - DNA

100.0 476 cases

Record/column: 2/331

brB3b_3: 2nd floor: furniture type-ecapsulated composite

QUESTION ASKED IF NEW FURNITURE ON 2ND FLOOR ('brB3' eq 1):

Fully encapsulated composite wood construction

(See 'brB3b_1' for full text of this form.)

%	N	VALUE	LABEL
33.3	6	1	Yes
66.7	12	5	No
	2	8	DK
	456	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/332

brB3b_4: 2nd floor: furniture type-metal/plastic

QUESTION ASKED IF NEW FURNITURE ON 2ND FLOOR ('brB3' eq 1):

Metal and/or Plastic

(See 'brB3b_1' for full text of this form.)

%	N	VALUE	LABEL
38.9	7	1	Yes
61.1	11	5	No
	2	8	DK
	456	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/333

brB3b_5: 2nd floor: furniture type-otherQUESTION ASKED IF NEW FURNITURE ON 2ND FLOOR ('brB3' eq 1):

Other (SPECIFY)

(See 'brB3b_1' for full text of this form.)

%	N	VALUE	LABEL
16.7	3	1	Yes (SPECIFY)
83.3	15	5	No
	2	8	DK
	456	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/334

Cleaning Schedule: 2nd Floor

csB1: 2nd floor: cleaned on regular schedule

Is the space cleaned on a regular schedule?

%	N	VALUE	LABEL
95.6	109	1	Yes
4.4	5	5	No (SKIP TO 'csB2')
	1	9	Ref/MD (SKIP TO 'csB2')
	361	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/335

csB1a: 2nd floor: cleaned while occupied

QUESTION ASKED IF CLEANED ON REGULAR SCHEDULE ON 2ND FLOOR ('csB1'
eq 1):

Is the cleaning done during occupied or unoccupied hours?

%	N	VALUE	LABEL
18.3	20	1	Occupied
56.0	61	2	Unoccupied
25.7	28	3	Both
	367	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/336

csB1b: 2nd floor: cleaned day or night

QUESTION ASKED IF CLEANED ON REGULAR SCHEDULE ON 2ND FLOOR ('csB1'
eq 1):

Is the cleaning done during the day or at night?

%	N	VALUE	LABEL
26.6	29	1	Days
52.3	57	2	Nights
21.1	23	3	Both
	367	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/337

csB1c: 2nd floor: cleaned by outside contractor

QUESTION ASKED IF CLEANED ON REGULAR SCHEDULE ON 2ND FLOOR ('csB1'
eq 1):

Is the cleaning done by an outside contractor?

%	N	VALUE	LABEL
67.0	73	1	Yes
33.0	36	5	No
	367	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/338

csB1d_1: 2nd floor: cleaned with wet mop

QUESTION ASKED IF CLEANED ON REGULAR SCHEDULE ON 2ND FLOOR ('csB1'
eq 1):

Are floors cleaned with a wet mop?

%	N	VALUE	LABEL
74.3	78	1	Yes
25.7	27	5	No
	4	8	DK
	367	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/339

csB1d_2: 2nd floor: how often cleaned with wet mop

QUESTION ASKED IF CLEANED WITH A WET MOP ('csB1d_1' eq 1):

How often are the floors cleaned with a wet mop?

%	N	VALUE	LABEL
59.0	46	1	Daily
15.4	12	2	Once a week
14.1	11	3	Twice a week
2.6	2	4	Every two weeks
9.0	7	6	Other (SPECIFY)
	398	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/340

csB1e_1: 2nd floor: cleaned with dry mop

QUESTION ASKED IF CLEANED ON REGULAR SCHEDULE ON 2ND FLOOR ('csB1'
eq 1):

Are the floors cleaned with a dry mop?

%	N	VALUE	LABEL
32.0	32	1	Yes
68.0	68	5	No
	9	8	DK
	367	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/341

csB1e_2: 2nd floor: how often cleaned with dry mop

QUESTION ASKED IF FLOORS CLEANED WITH A DRY MOP ('csB1e_1' eq 1):

How often are the floors cleaned with a dry mop?

%	N	VALUE	LABEL
71.9	23	1	Daily
15.6	5	2	Once a week
6.2	2	3	Twice a week
6.2	2	6	Other (SPECIFY)
	444	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/342

csB1f_1: 2nd floor: cleaned with a vacuum

QUESTION ASKED IF CLEANED ON REGULAR SCHEDULE ON 2ND FLOOR ('csB1f_1' eq 1):

Is the cleaning done with a vacuum?

%	N	VALUE	LABEL
96.3	105	1	Yes
3.7	4	5	No
	367	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/343

csB1f_2: 2nd floor: how often cleaned with vacuum

QUESTION ASKED IF THE CLEANING DONE WITH A VACUUM ('csB1f_1' eq 1):

How often is the cleaning done with a vacuum?

(See 'csB1f_1' for full text of this form.)

%	N	VALUE	LABEL
58.1	61	1	Daily
16.2	17	2	Once a week
16.2	17	3	Twice a week
1.9	2	4	Every two weeks
1.0	1	5	Monthly
6.7	7	6	Other (SPECIFY)
	371	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/344

csB1g_1: 2nd floor: window cleaner used

QUESTION ASKED IF CLEANED ON REGULAR SCHEDULE ON 2ND FLOOR ('csB1'
eq 1):

Are any of the following cleaning materials used in
cleaning the space...

How about window cleaner?

%	N	VALUE	LABEL
79.8	83	1	Yes
20.2	21	5	No
	5	8	DK
	367	.	Blank - DNA

----- ---
100.0 476 cases

Record/column: 2/345

csB1g_1a: 2nd floor: how often window cleaner used

QUESTION ASKED IF WINDOW CLEANER USED ('csB1g_1' eq 1):

How often?

%	N	VALUE	LABEL
40.0	32	1	Daily
18.8	15	2	Once a week
12.5	10	3	Twice a week
3.8	3	4	Every 2 weeks
11.2	9	5	Monthly
13.8	11	6	Other
	3	8	DK
	393	.	Blank - DNA

----- ---
100.0 476 cases

Record/column: 2/346

csB1g_2: 2nd floor: furniture cleaner used

How about furniture cleaner?

(See 'csB1g_1' for full text of this form.)

%	N	VALUE	LABEL
41.4	41	1	Yes
58.6	58	5	No
	10	8	DK
	367	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 2/347

csB1g_2a: 2nd floor: how often furniture cleaner used

QUESTION ASKED IF FURNITURE CLEANER USED ('csB1g_2' eq 1):

How often?

%	N	VALUE	LABEL
28.2	11	1	Daily
28.2	11	2	Once a week
10.3	4	3	Twice a week
2.6	1	4	Every 2 weeks
10.3	4	5	Monthly
20.5	8	6	Other
	2	8	DK
	435	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 2/348

csB1g_3: 2nd floor: floor/furniture wax used

(How about) Floor or furniture wax?

(See 'csB1g_1' for full text of this form.)

%	N	VALUE	LABEL
31.4	32	1	Yes
68.6	70	5	No
	7	8	DK
	367	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/349

csB1g_3a: 2nd floor: how often floor/furn. wax used

QUESTION ASKED IF FLOOR/FURNITURE WAX USED ('csB1g_3' eq 1):

How often?

%	N	VALUE	LABEL
9.4	3	1	Daily
12.5	4	2	Once a week
6.2	2	3	Twice a week
21.9	7	5	Monthly
50.0	16	6	Other
	444	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/350

csB1g_4: 2nd floor: bathroom cleaner used

(How about) Bathroom cleaner?

(See 'csB1g_1' for full text of this form.)

%	N	VALUE	LABEL
87.6	92	1	Yes
12.4	13	5	No
	4	8	DK
	367	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 2/351

csB1g_4a: 2nd floor: how often bathroom cleaner used

QUESTION ASKED IF BATHROOM CLEANER USED ('csB1g_4' eq 1):

How often?

%	N	VALUE	LABEL
74.2	66	1	Daily
12.4	11	2	Once a week
6.7	6	3	Twice a week
1.1	1	4	Every 2 weeks
5.6	5	6	Other
	3	8	DK
	384	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 2/352

csB1g_5: 2nd floor: bleach used

(How about) Bleach?

(See 'csB1g_1' for full text of this form.)

%	N	VALUE	LABEL
26.0	25	1	Yes
74.0	71	5	No
	13	8	DK
	367	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/353

csB1g_5a: 2nd floor: how often bleach used

QUESTION ASKED IF BLEACH USED ('csB1g_5' eq 1):

How often?

%	N	VALUE	LABEL
66.7	16	1	Daily
12.5	3	2	Once a week
12.5	3	3	Twice a week
8.3	2	6	Other
	1	8	DK
	451	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/354

csB1g_6: 2nd floor: soap/detergent used

(How about) Soap or detergent?

(See 'csB1g_1' for full text of this form.)

%	N	VALUE	LABEL
73.0	73	1	Yes
27.0	27	5	No
	9	8	DK
	367	.	Blank - DNA

----- ---

100.0 476 cases

Record/column: 2/355

csB1g_6a: 2nd floor: how often soap/detergent used

QUESTION ASKED IF SOAP/DETERGENT USED ('csB1g_6' eq 1):

How often?

%	N	VALUE	LABEL
78.1	57	1	Daily
8.2	6	2	Once a week
5.5	4	3	Twice a week
1.4	1	4	Every 2 weeks
1.4	1	5	Monthly
5.5	4	6	Other
	403	.	Blank - DNA

----- ---

100.0 476 cases

Record/column: 2/356

csB1g_7: 2nd floor: carpet cleaner used

(How about) Carpet cleaners?

(See 'csB1g_1' for full text of this form.)

%	N	VALUE	LABEL
71.2	74	1	Yes
28.8	30	5	No
	5	8	DK
	367	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/357

csB1g_7a: 2nd floor: how often carpet cleaner used

QUESTION ASKED IF CARPET CLEANER USED ('csB1g_7' eq 1):

How often?

%	N	VALUE	LABEL
1.4	1	1	Daily
2.7	2	2	Once a week
1.4	1	4	Every 2 weeks
17.8	13	5	Monthly
76.7	56	6	Other
	1	8	DK
	402	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/358

csB1h_1: 2nd floor: other cleaning materials used

QUESTION ASKED IF CLEANED ON REGULAR SCHEDULE ON 2ND FLOOR ('csB1'
eq 1):

Are any other cleaning materials used?

%	N	VALUE	LABEL
6.7	7	1	Yes
93.3	98	5	No
	4	8	DK
	367	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 2/359

csB1h_2: 2nd floor: describe other cleaning materials

QUESTION ASKED IF OTHER CLEANING MATERIALS ARE USED ('csB1h_1' eq
1):

--

What other cleaning materials are used?

%	N	VALUE	LABEL
0.2	1	Amaze cleaning spray	
0.2	1	Lysol wipes//	
0.2	1	Whatever the outside contractors may need.//	
0.2	1	ammonia	
0.2	1	car washing and detailing materials //	
0.2	1	lysol, fabuloso, windex	
0.2	1	water based floor cleaner/polish //	
98.5	469		
-----	----		
100.0	476	cases	

Record/columns: 2/360-429

csB1i: 2nd floor: propane floor buffers used

QUESTION ASKED IF FLOOR/FURNITURE WAX USED ('csB1g_3' eq 1):

Are propane floor buffers ever used?

%	N	VALUE	LABEL
3.1	1	1	Yes
96.9	31	5	No
	444	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 2/430

csB1q: 2nd floor: effort to use green products

Is there any effort to use only "green" cleaning products?

%	N	VALUE	LABEL
58.5	55	1	Yes
41.5	39	5	No
	15	8	DK
	367	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 2/431

csB1r_1: 2nd floor: cleaning materials kept in janitors closet

Where are cleaning materials kept on the SECOND floor?

...in the janitor's closet?

%	N	VALUE	LABEL
52.8	57	1	Yes
47.2	51	5	No
	1	8	DK
	367	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 2/432

csB1r_2: 2nd floor: cleaning materials kept in another closet

...in another closet?

(See 'csB1r_1' for full text of this form.)

%	N	VALUE	LABEL
2.8	3	1	Yes
97.2	105	5	No
	1	8	DK
	367	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 2/433

csB1r_3: 2nd floor: cleaning materials kept in storage room

...in a storage room?

(See 'csB1r_1' for full text of this form.)

%	N	VALUE	LABEL
6.5	7	1	Yes
93.5	101	5	No
	1	8	DK
	367	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 2/434

csB1r_4: 2nd floor: cleaning materials kept anywhere else

...anywhere else?

(See 'csB1r_1' for full text of this form.)

%	N	VALUE	LABEL
15.6	17	1	Yes (SPECIFY)
84.4	92	5	No
	367	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 2/435

Regular Interior/Exterior Pesticide: 2nd Floor

csB2: 2nd floor: pesticide regularly applied

Is pesticide regularly applied to either the interior or to the exterior to the space?

%	N	VALUE	LABEL
40.9	45	1	Yes
59.1	65	5	No (SKIP TO 'ivfB23')
	4	8	DK (SKIP TO 'ivfB23')
	1	9	Ref/MD (SKIP TO 'ivfB23')
	361	.	Blank - DNA

100.0 476 cases

Record/column: 2/436

csB2a_1: 2nd floor: outside contractor applies pesticide

QUESTION ASKED IF PESTICIDE REGULARLY APPLIED ('csB2' eq 1):

Who applies the pesticide?

(READ EACH AND CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

Outside Contractor

%	N	VALUE	LABEL
100.0	45	1	Yes
	431	.	Blank - DNA

100.0 476 cases

Record/column: 2/437

csB2a_2: 2nd floor: building staff applies pesticide

Building staff

(See 'csB2a_1' for full text of this form.)

%	N	VALUE	LABEL
2.2	1	1	Yes
97.8	44	5	No
	431	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 2/438

csB2a_3: 2nd floor: employees apply pesticide

Employees

(See 'csB2a_1' for full text of this form.)

%	N	VALUE	LABEL
2.2	1	1	Yes
97.8	44	5	No
	431	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 2/439

csB2a_4: 2nd floor: other person applies pesticide

Other

(See 'csB2a_1' for full text of this form.)

%	N	VALUE	LABEL
100.0	45	5	No
	431	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 2/440

csB2b: 2nd floor: how often exterior pesticide applied

QUESTION ASKED IF PESTICIDE REGULARLY APPLIED ('csB2' eq 1):

How often is EXTERIOR pesticide applied?

%	N	VALUE	LABEL	
2.3	1	1	Weekly	
55.8	24	2	Monthly	
20.9	9	3	Quarterly	
11.6	5	5	Other	(SPECIFY)
9.3	4	6	Not used	
	2	8	DK	
	431	.	Blank - DNA	
-----	----			
100.0	476	cases		

Record/column: 2/441

csB2d: 2nd floor: how often interior pesticide applied

QUESTION ASKED IF PESTICIDE REGULARLY APPLIED ('csB2' eq 1):

How often is INTERIOR pesticide applied?

%	N	VALUE	LABEL	
25.0	11	2	Monthly	
4.5	2	3	Quarterly	
34.1	15	5	Other	(SPECIFY)
36.4	16	6	Not used	
	1	8	DK	
	431	.	Blank - DNA	
-----	----			
100.0	476	cases		

Record/column: 2/442

csB2g: 2nd floor: pesticides stored on- or off-site

QUESTION ASKED IF PESTICIDE REGULARLY APPLIED ('csB2' eq 1):

Are the pesticides stored on-site or off-site?

%	N	VALUE	LABEL
3.6	1	1	On-site
96.4	27	5	Off-site (SKIP TO 'ivfB23')
	448	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 2/443

csB2h_1: 2nd floor: pesticides kept in janitors closet

QUESTION ASKED IF PESTICIDE STORED ON-SITE ('csB2g' eq 1):

Where are pesticides kept on the SECOND floor?

...in the janitor's closet?

%	N	VALUE	LABEL
100.0	1	5	No
	475	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 2/444

csB2h_2: 2nd floor: pesticides kept in another closet

...in another closet?

(See 'csB2h_1' for full text of this form.)

%	N	VALUE	LABEL
100.0	1	5	No
	475	.	Blank - DNA

100.0 476 cases

Record/column: 2/445

csB2h_3: 2nd floor: pesticides kept in a storage room

...in a storage room?

(See 'csB2h_1' for full text of this form.)

%	N	VALUE	LABEL
100.0	1	5	No
	475	.	Blank - DNA

100.0 476 cases

Record/column: 2/446

csB2h_4: 2nd floor: pesticides kept anywhere else

...anywhere else? (SPECIFY)

(See 'csB2h_1' for full text of this form.)

%	N	VALUE	LABEL
100.0	1	1	Yes (SPECIFY)
	475	.	Blank - DNA

100.0 476 cases

Record/column: 2/447

Indoor Ventilation Fixtures: 2nd Floor

ivfB23_a: 2nd floor: air cleaners used

Is any of the following space conditioning equipment used inside the SECOND floor:

(READ EACH - CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

Air cleaners?

%	N	VALUE	LABEL
8.9	10	1	Yes
91.1	102	5	No
	2	8	DK
	1	9	Ref/MD
	361	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 2/448

ivfB23_b: 2nd floor: space heaters used

Space heaters?

(See 'ivfB23_a' for full text of this form.)

%	N	VALUE	LABEL
11.5	13	1	Yes
88.5	100	5	No
	1	8	DK
	1	9	Ref/MD
	361	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 2/449

ivfB23_c: 2nd floor: humidifiers used

Humidifiers?

(See 'ivfB23_a' for full text of this form.)

%	N	VALUE	LABEL
2.6	3	1	Yes
97.4	111	5	No
	1	9	Ref/MD
	361	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 2/450

ivfB23_d: 2nd floor: dehumidifiers used

Dehumidifiers?

(See 'ivfB23_a' for full text of this form.)

%	N	VALUE	LABEL
0.9	1	1	Yes
99.1	113	5	No
	1	9	Ref/MD
	361	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 2/451

ivfB23_e: 2nd floor: desk fans used

Desk fans?

(See 'ivfB23_a' for full text of this form.)

%	N	VALUE	LABEL
23.2	26	1	Yes
76.8	86	5	No
	2	8	DK
	1	9	Ref/MD
	361	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/452

ivfB23a: 2nd floor: number of air cleaners

QUESTION ASKED IF AIR CLEANERS USED ('ivfB23_a' eq 1):

How many air cleaners are used?

%	N	VALUE	LABEL
20.0	2	1	
40.0	4	2	
10.0	1	3	
10.0	1	5	
10.0	1	10	
10.0	1	160	
	466	.	Blank - DNA
-----	----		
100.0	476		cases

Record/columns: 2/453-455

ivfB23b_1: 2nd floor: type of air cleaner-mechanical

QUESTION ASKED IF AIR CLEANERS USED ('ivfB23_a' eq 1):

Various types of air cleaners could be used. Tell me which ones are used on this floor:

(READ EACH - CODE 1 IF USED - CODE 5 IF NOT USED)

Mechanical?

%	N	VALUE	LABEL
42.9	3	1	Yes
57.1	4	5	No
	3	8	DK
	466	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/456

ivfB23b_2: 2nd floor: type of air cleaner-pleated filters

Contain pleated filters?

(See 'ivfB23b_1' for full text of this form.)

%	N	VALUE	LABEL
28.6	2	1	Yes
71.4	5	5	No
	3	8	DK
	466	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/457

ivfB23b_3: 2nd floor: type of air cleaner-ionizers

Ionizers?

(See 'ivfB23b_1' for full text of this form.)

%	N	VALUE	LABEL
28.6	2	1	Yes
71.4	5	5	No
	3	8	DK
	466	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 2/458

ivfB23b_4: 2nd floor: type of air cleaner-electrostatic precipitators

Electrostatic precipitators?

(See 'ivfB23b_1' for full text of this form.)

%	N	VALUE	LABEL
14.3	1	1	Yes
85.7	6	5	No
	3	8	DK
	466	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 2/459

ivfB23b_5: 2nd floor: type of air cleaner-ozone generators

Ozone generators?

(See 'ivfB23b_1' for full text of this form.)

%	N	VALUE	LABEL
100.0	7	5	No
	3	8	DK
	466	.	Blank - DNA

----- ---
100.0 476 cases

Record/column: 2/460

ivfB23b_6: 2nd floor: type of air cleaner-label-other

Some other kind?

(See 'ivfB23b_1' for full text of this form.)

%	N	VALUE	LABEL
100.0	7	5	No
	3	8	DK
	466	.	Blank - DNA

----- ---
100.0 476 cases

Record/column: 2/461

ivfB25a: 2nd floor: number of humidifiers

QUESTION ASKED IF HUMIDIFIERS USED ('ivfB23_c' eq 1):

How many humidifiers are used?

%	N	VALUE	LABEL
100.0	1	2	
	2	998	DK
	473	.	Blank - DNA

100.0 476 cases

Record/columns: 2/462-464

ivfB26a: 2nd floor: number of dehumidifiers

QUESTION ASKED IF DEHUMIDIFIERS USED ('ivfB23_d' eq 1):

How many dehumidifiers are used?

%	N	VALUE	LABEL
	1	998	DK
	475	.	Blank - DNA

100.0 476 cases

Record/columns: 2/465-467

ivfB27a: 2nd floor: number of desk fans

QUESTION ASKED IF DEHUMIDIFIERS USED ('ivfB23_e' eq 1):

How many desk fans are used?

%	N	VALUE	LABEL
21.7	5	1	
30.4	7	2	
8.7	2	3	
13.0	3	5	
17.4	4	10	
4.3	1	12	
4.3	1	20	
	3	998	DK
	450	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/columns: 2/468-470

Fire Damage: 3rd Floor

fdC1: 3rd floor: any fire damage

IF COMPANY USES ONLY TWO FLOORS ('ci6' eq 2),
INTERVIEW PATH SKIPS TO 'ocl_a':

Has there ever been any fire damage in the THIRD floor space?

%	N	VALUE	LABEL
100.0	14	5	No (SKIP TO 'brC1')
	462	.	Blank - DNA

100.0 476 cases

Record/column: 2/471

fdC1a_mo: 3rd floor: fire damage-month

QUESTION ASKED IF FIRE DAMAGE ON 3RD FLOOR ('fdC1' eq 1):

In what month and year did the fire damage occur on the THIRD floor?

Month (1-12)

%	N	VALUE	LABEL
	476	.	Blank - DNA

100.0 476 cases

Record/columns: 2/472-473

fdC1a_yr: 3rd floor: fire damage-year

Year (1979-2008)

(See 'fdC1a_mo' for full text of this form.)

%	N	VALUE	LABEL
	476	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/columns: 2/474-477

Building Renovations: 3rd Floor

brC1: 3rd floor: any interior painting

Has there been any interior painting done in the THIRD floor space in the last year?

%	N	VALUE	LABEL
28.6	4	1	Yes
71.4	10	5	No
	462	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 2/478

brC2: 3rd floor: any new carpet installed

Has new carpet been installed in the THIRD floor space in the last year?

%	N	VALUE	LABEL
7.1	1	1	Yes
92.9	13	5	No (SKIP TO 'brC3')
	462	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 2/479

brC2b_1: 3rd floor: new carpet type-natural fiber

QUESTION ASKED IF CARPET INSTALLED ON 3RD FLOOR ('brC2' eq 1):

What type of carpet was installed? (READ CODES)

(CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

Natural fiber carpet? (e.g., wool, sisal)

%	N	VALUE	LABEL
100.0	1	5	No
	475	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/480

brC2b_2: 3rd floor: new carpet type-nylon

QUESTION ASKED IF CARPET INSTALLED ON 3RD FLOOR ('brC2' eq 1):

Nylon?

(See 'brC2b_1' for full text of this form.)

%	N	VALUE	LABEL
100.0	1	1	Yes
	475	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/481

brC2b_3: 3rd floor: new carpet type-olefin

QUESTION ASKED IF CARPET INSTALLED ON 3RD FLOOR ('brC2' eq 1):

Olefin? (polypropylene)

(See 'brC2b_1' for full text of this form.)

%	N	VALUE	LABEL
100.0	1	5	No
	475	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 2/482

brC2bb: 3rd floor: type of carpet backing

QUESTION ASKED IF CARPET INSTALLED ON 3RD FLOOR ('brC2' eq 1):

Does it have styrene-butadiene backed carpet, CRI Green Label, CRI Green Label Plus, or some other kind?

%	N	VALUE	LABEL
100.0	1	1	Styrene-butadiene
	475	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 2/483

brC2c: 3rd floor: type of carpet padding

QUESTION ASKED IF CARPET INSTALLED ON 3RD FLOOR ('brC2' eq 1):

What type of material is in the carpet pad, if there is a pad?

%	N	VALUE	LABEL
100.0	1	1	Rubberized or resinated fiber
	475	.	Blank - DNA

100.0 476 cases

Record/column: 2/484

brC3: 3rd floor: any new furniture installed

Has any new furniture been installed in the space in the last year?

%	N	VALUE	LABEL
100.0	14	5	No (SKIP TO 'csC1')
	462	.	Blank - DNA

100.0 476 cases

Record/column: 2/485

brC3b_1: 3rd floor: furniture type-solid wood

QUESTION ASKED IF NEW FURNITURE ON 3RD FLOOR ('brC3' eq 1):

What type of materials are in the furniture that was installed?

(READ EACH AND CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

Solid wood (raw, wood finish or painted)

%	N	VALUE	LABEL
	476	.	Blank - DNA

100.0 476 cases

Record/column: 2/486

brC3b_2: 3rd floor: furniture type-composite w/ veneer

QUESTION ASKED IF NEW FURNITURE ON 3RD FLOOR ('brC3' eq 1):

Composite wood product with wood or synthetic veneer

(See 'brC3b_1' for full text of this form.)

%	N	VALUE	LABEL
	476	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 2/487

brC3b_3: 3rd floor: furniture type-ecapsulated composite

QUESTION ASKED IF NEW FURNITURE ON 3RD FLOOR ('brC3' eq 1):

Fully encapsulated composite wood construction

(See 'brC3b_1' for full text of this form.)

%	N	VALUE	LABEL
	476	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 2/488

brC3b_4: 3rd floor: furniture type-metal/plasticQUESTION ASKED IF NEW FURNITURE ON 3RD FLOOR ('brC3' eq 1):

Metal and/or Plastic

(See 'brC3b_1' for full text of this form.)

%	N	VALUE	LABEL
	476	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/489

brC3b_5: 3rd floor: furniture type-otherQUESTION ASKED IF NEW FURNITURE ON 3RD FLOOR ('brC3' eq 1):

Other (SPECIFY)

(See 'brC3b_1' for full text of this form.)

%	N	VALUE	LABEL
	476	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/490

Cleaning Schedules: 3rd Floor

csC1: 3rd floor: cleaned on regular schedule

Is the space cleaned on a regular schedule?

%	N	VALUE	LABEL
100.0	14	1	Yes
	462	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/491

csC1a: 3rd floor: cleaned while occupied

QUESTION ASKED IF CLEANED ON REGULAR SCHEDULE ON 3RD FLOOR ('csC1'
eq 1):

Is the cleaning done during occupied or unoccupied hours?

%	N	VALUE	LABEL
14.3	2	1	Occupied
64.3	9	2	Unoccupied
21.4	3	3	Both
	462	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 2/492

csC1b: 3rd floor: cleaned day or night

QUESTION ASKED IF CLEANED ON REGULAR SCHEDULE ON 3RD FLOOR ('csC1'
eq 1):

Is the cleaning done during the day or at night?

%	N	VALUE	LABEL
14.3	2	1	Days
64.3	9	2	Nights
21.4	3	3	Both
	462	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/493

csC1c: 3rd floor: cleaned by outside contractor

QUESTION ASKED IF CLEANED ON REGULAR SCHEDULE ON 3RD FLOOR ('csC1'
eq 1):

Is the cleaning done by an outside contractor?

%	N	VALUE	LABEL
71.4	10	1	Yes
28.6	4	5	No
	462	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/494

csC1d_1: 3rd floor: cleaned with wet mop

QUESTION ASKED IF CLEANED ON REGULAR SCHEDULE ON 3RD FLOOR ('csC1'
eq 1):

Are floors cleaned with a wet mop?

%	N	VALUE	LABEL
84.6	11	1	Yes
15.4	2	5	No
	1	8	DK
	462	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/495

csC1d_2: 3rd floor: how often cleaned with wet mop

QUESTION ASKED IF CLEANED WITH A WET MOP ('csC1d_1' eq 1):

How often are the floors cleaned with a wet mop?

(See 'csC1d_1' for full text of this form.)

%	N	VALUE	LABEL
72.7	8	1	Daily
18.2	2	2	Once a week
9.1	1	5	Monthly
	465	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/496

csC1e_1: 3rd floor: cleaned with dry mop

QUESTION ASKED IF CLEANED ON REGULAR SCHEDULE ON 3RD FLOOR ('csC1'
eq 1):

Are the floors cleaned with a dry mop?

%	N	VALUE	LABEL
30.8	4	1	Yes
69.2	9	5	No
	1	8	DK
	462	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/497

csC1e_2: 3rd floor: how often cleaned with dry mop

QUESTION ASKED IF FLOORS CLEANED WITH A DRY MOP ('csC1e_1' eq 1):

How often are the floors cleaned with a dry mop?

(See 'csC1e_1' for full text of this form.)

%	N	VALUE	LABEL
75.0	3	1	Daily
25.0	1	2	Once a week
	472	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/498

csC1f_1: 3rd floor: cleaned with a vacuum

QUESTION ASKED IF CLEANED ON REGULAR SCHEDULE ON 3RD FLOOR ('csC1' eq 1):

Is the cleaning done with a vacuum?

%	N	VALUE	LABEL
100.0	14	1	Yes
	462	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/499

csC1f_2: 3rd floor: how often cleaned with vacuum

QUESTION ASKED IF FLOORS CLEANED WITH A VACUUM ('csC1f_1' eq 1):

How often is the cleaning done with a vacuum?

(See 'csC1f_1' for full text of this form.)

%	N	VALUE	LABEL
78.6	11	1	Daily
21.4	3	2	Once a week
	462	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 2/500

csC1g_1: 3rd floor: window cleaner used

QUESTION ASKED IF CLEANED ON REGULAR SCHEDULE ON 3RD FLOOR ('csC1'
eq 1):

Are any of the following cleaning materials used in
cleaning the space...

How about window cleaner?

%	N	VALUE	LABEL
69.2	9	1	Yes
30.8	4	5	No
	1	8	DK
	462	.	Blank - DNA

----- ---
100.0 476 cases

Record/column: 3/1

csC1g_1a: 3rd floor: how often window cleaner used

QUESTION ASKED IF WINDOW CLEANER USED ('csC1g_1' eq 1):

How often?

%	N	VALUE	LABEL
44.4	4	1	Daily
33.3	3	2	Once a week
22.2	2	6	Other
	467	.	Blank - DNA

----- ---
100.0 476 cases

Record/column: 3/2

csC1g_2: 3rd floor: furniture cleaner used

How about furniture cleaner?

(See 'csC1g_1' for full text of this form.)

%	N	VALUE	LABEL
53.8	7	1	Yes
46.2	6	5	No
	1	8	DK
	462	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 3/3

csC1g_2a: 3rd floor: how often furniture cleaner used

QUESTION ASKED IF FURNITURE CLEANER USED ('csC1g_2' eq 1):

How often?

%	N	VALUE	LABEL
57.1	4	1	Daily
14.3	1	2	Once a week
28.6	2	6	Other
	469	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 3/4

csC1g_3: 3rd floor: floor/furniture wax used

(How about) Floor or furniture wax?

(See 'csC1g_1' for full text of this form.)

%	N	VALUE	LABEL
38.5	5	1	Yes
61.5	8	5	No
	1	8	DK
	462	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 3/5

csC1g_3a: 3rd floor: how often floor/furniture wax used

QUESTION ASKED IF FLOOR/FURNITURE WAX USED ('csC1g_3' eq 1):

How often?

%	N	VALUE	LABEL
60.0	3	1	Daily
40.0	2	6	Other
	471	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 3/6

csC1g_4: 3rd floor: bathroom cleaner used

(How about) Bathroom cleaner?

(See 'csC1g_1' for full text of this form.)

%	N	VALUE	LABEL
92.3	12	1	Yes
7.7	1	5	No
	1	8	DK
	462	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 3/7

csC1g_4a: 3rd floor: how often bathroom cleaner used

QUESTION ASKED IF BATHROOM CLEANER USED ('csC1g_4' eq 1):

How often?

%	N	VALUE	LABEL
83.3	10	1	Daily
16.7	2	2	Once a week
	464	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 3/8

csC1g_5: 3rd floor: bleach used

(How about) Bleach?

(See 'csC1g_1' for full text of this form.)

%	N	VALUE	LABEL
15.4	2	1	Yes
84.6	11	5	No
	1	8	DK
	462	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 3/9

csC1g_5a: 3rd floor: how often bleach used

QUESTION ASKED IF BLEACH USED ('csC1g_5' eq 1):

How often?

%	N	VALUE	LABEL
50.0	1	1	Daily
50.0	1	2	Once a week
	474	.	Blank - DNA
-----	---		
100.0	476		cases

Record/column: 3/10

csC1g_6: 3rd floor: soap/detergent used

(How about) Soap or detergent?

(See 'csC1g_1' for full text of this form.)

%	N	VALUE	LABEL
76.9	10	1	Yes
23.1	3	5	No
	1	8	DK
	462	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 3/11

csC1g_6a: 3rd floor: how often soap/detergent used

QUESTION ASKED IF SOAP/DETERGENT USED ('csC1g_6' eq 1):

How often?

%	N	VALUE	LABEL
90.0	9	1	Daily
10.0	1	2	Once a week
	466	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 3/12

csC1g_7: 3rd floor: carpet cleaner used

(How about) Carpet cleaners?

(See 'csC1g_1' for full text of this form.)

%	N	VALUE	LABEL
92.3	12	1	Yes
7.7	1	5	No
	1	8	DK
	462	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 3/13

csC1g_7a: 3rd floor: how often carpet cleaner used

QUESTION ASKED IF CARPET CLEANER USED ('csC1g_7' eq 1):

How often?

%	N	VALUE	LABEL
8.3	1	1	Daily
8.3	1	2	Once a week
8.3	1	4	Every 2 weeks
16.7	2	5	Monthly
58.3	7	6	Other
	464	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 3/14

csC1h_1: 3rd floor: other cleaning materials used

QUESTION ASKED IF CLEANED ON REGULAR SCHEDULE ON 3RD FLOOR ('csC1'
eq 1):

Are any other cleaning materials used?

%	N	VALUE	LABEL
100.0	13	5	No
	1	8	DK
	462	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 3/15

csC1h_2: 3rd floor: describe other cleaning materials

QUESTION ASKED IF OTHER CLEANING MATERIALS ARE USED ('csC1h_1' eq
1):

--

What other cleaning materials are used?

%	N	VALUE	LABEL
100.0	476		
-----	---		
100.0	476	cases	

Record/columns: 3/16-85

csC1i: 3rd floor: propane floor buffers used

QUESTION ASKED IF FLOOR/FURNITURE WAX USED ('csC1g_3' eq 1):

Are propane floor buffers ever used?

%	N	VALUE	LABEL
100.0	5	5	No
	471	.	Blank - DNA

100.0 476 cases

Record/column: 3/86

csC1q: 3rd floor: effort to use green products

Is there any effort to use only "green" cleaning products?

%	N	VALUE	LABEL
81.8	9	1	Yes
18.2	2	5	No
	3	8	DK
	462	.	Blank - DNA

100.0 476 cases

Record/column: 3/87

csC1r_1: 3rd floor: cleaning materials kept in janitors closet

Where are cleaning materials kept on the THIRD floor?

...in the janitor's closet?

%	N	VALUE	LABEL
57.1	8	1	Yes
42.9	6	5	No
	462	.	Blank - DNA

100.0 476 cases

Record/column: 3/88

csC1r_2: 3rd floor: cleaning materials kept in another closet

...in another closet?

(See 'csC1r_1' for full text of this form.)

%	N	VALUE	LABEL
7.1	1	1	Yes
92.9	13	5	No
	462	.	Blank - DNA

100.0 476 cases

Record/column: 3/89

csC1r_3: 3rd floor: cleaning materials kept in storage room

...in a storage room?

(See 'csC1r_1' for full text of this form.)

%	N	VALUE	LABEL
14.3	2	1	Yes
85.7	12	5	No
	462	.	Blank - DNA

100.0 476 cases

Record/column: 3/90

csC1r_4: 3rd floor: cleaning materials kept anywhere else

...anywhere else?

(See 'csC1r_1' for full text of this form.)

%	N	VALUE	LABEL
7.1	1	1	Yes (SPECIFY)
92.9	13	5	No
	462	.	Blank - DNA

100.0 476 cases

Record/column: 3/91

Regular Interior/Exterior Pesticide: 3rd Floor

csC2: 3rd floor: pesticide regularly applied

Is pesticide regularly applied to either the interior or to the exterior to the space?

%	N	VALUE	LABEL
61.5	8	1	Yes
38.5	5	5	No (SKIP TO 'ivfC23')
	1	8	DK (SKIP TO 'ivfC23')
	462	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 3/92

csC2a_1: 3rd floor: outside contractor applies pesticide

QUESTION ASKED IF PESTICIDE REGULARLY APPLIED ('csC2' eq 1):

Who applies the pesticide?

(READ EACH AND CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

Outside Contractor

%	N	VALUE	LABEL
100.0	8	1	Yes
	468	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 3/93

csC2a_2: 3rd floor: building staff applies pesticideQUESTION ASKED IF PESTICIDE REGULARLY APPLIED ('csC2' eq 1):

Building staff

(See 'csC2a_1' for full text of this form.)

%	N	VALUE	LABEL
100.0	8	5	No
	468	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 3/94

csC2a_3: 3rd floor: outside employees apply pesticideQUESTION ASKED IF PESTICIDE REGULARLY APPLIED ('csC2' eq 1):

Employees

(See 'csC2a_1' for full text of this form.)

%	N	VALUE	LABEL
100.0	8	5	No
	468	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 3/95

csC2a_4: 3rd floor: other person applies pesticide

QUESTION ASKED IF PESTICIDE REGULARLY APPLIED ('csC2' eq 1):

Other

(See 'csC2a_1' for full text of this form.)

%	N	VALUE	LABEL
100.0	8	5	No
	468	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 3/96

csC2b: 3rd floor: how often exterior pesticide applied

QUESTION ASKED IF PESTICIDE REGULARLY APPLIED ('csC2' eq 1):

How often is EXTERIOR pesticide applied?

%	N	VALUE	LABEL
50.0	4	2	Monthly
12.5	1	3	Quarterly
25.0	2	5	Other (SPECIFY)
12.5	1	6	Not used
	468	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 3/97

csC2d: 3rd floor: how often interior pesticide applied

QUESTION ASKED IF PESTICIDE REGULARLY APPLIED ('csC2' eq 1):

How often is INTERIOR pesticide applied?

%	N	VALUE	LABEL
12.5	1	3	Quarterly
25.0	2	5	Other (SPECIFY)
62.5	5	6	Not used
	468	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 3/98

csC2g: 3rd floor: pesticides stored on- or off-site

QUESTION ASKED IF PESTICIDE REGULARLY APPLIED ('csC2' eq 1):

Are the pesticides stored on-site or off-site?

%	N	VALUE	LABEL
100.0	3	5	Off-site (SKIP TO 'ivfC23')
	473	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 3/99

csC2h_1: 3rd floor: pesticides kept in janitors closet

QUESTION ASKED IF PESTICIDE STORED ON-SITE ('csC2g' eq 1):

Where are pesticides kept on the THIRD floor?

...in the janitor's closet?

%	N	VALUE	LABEL
	476	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 3/100

csC2h_2: 3rd floor: pesticides kept in another closet

...in another closet?

(See 'csC2h_1' for full text of this form.)

%	N	VALUE	LABEL
	476	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 3/101

csC2h_3: 3rd floor: pesticides kept in a storage room

...in a storage room?

(See 'csC2h_1' for full text of this form.)

%	N	VALUE	LABEL
	476	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 3/102

csC2h_4: 3rd floor: pesticides kept anywhere else

...anywhere else? (SPECIFY)

(See 'csC2h_1' for full text of this form.)

%	N	VALUE	LABEL
	476	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 3/103

Indoor Ventilation Fixtures: 3rd Floor

ivfC23_a: 3rd floor: air cleaners used

Is any of the following space conditioning equipment used inside the THIRD floor:

(READ EACH - CODE 1 IF APPLICABLE - OTHERWISE CODE 5)

Air cleaners?

%	N	VALUE	LABEL
7.1	1	1	Yes
92.9	13	5	No
	462	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 3/104

ivfC23_b: 3rd floor: space heaters used

Space heaters?

(See 'ivfC23_a' for full text of this form.)

%	N	VALUE	LABEL
7.1	1	1	Yes
92.9	13	5	No
	462	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 3/105

ivfC23_c: 3rd floor: humidifiers used

Humidifiers?

(See 'ivfC23_a' for full text of this form.)

%	N	VALUE	LABEL
7.1	1	1	Yes
92.9	13	5	No
	462	.	Blank - DNA

100.0 476 cases

Record/column: 3/106

ivfC23_d: 3rd floor: dehumidifiers used

Dehumidifiers?

(See 'ivfC23_a' for full text of this form.)

%	N	VALUE	LABEL
7.1	1	1	Yes
92.9	13	5	No
	462	.	Blank - DNA

100.0 476 cases

Record/column: 3/107

ivfC23_e: 3rd floor: desk fans used

Desk fans?

(See 'ivfC23_a' for full text of this form.)

%	N	VALUE	LABEL
14.3	2	1	Yes
85.7	12	5	No
	462	.	Blank - DNA

100.0 476 cases

Record/column: 3/108

ivfC23a: 3rd floor: number of air cleaners

QUESTION ASKED IF AIR CLEANERS USED ('ivfC23_a' eq 1):

How many air cleaners are used?

%	N	VALUE	LABEL
100.0	1	2	
	475	.	Blank - DNA

100.0 476 cases

Record/columns: 3/109-111

ivfC23b_1: 3rd floor: type of air cleaner-mechanical

QUESTION ASKED IF AIR CLEANERS USED ('ivfC23_a' eq 1):

Various types of air cleaners could be used. Tell me which ones are used on this floor:

(READ EACH - CODE 1 IF USED - CODE 5 IF NOT USED)

Mechanical?

%	N	VALUE	LABEL
100.0	1	1	Yes
	475	.	Blank - DNA

100.0 476 cases

Record/column: 3/112

ivfC23b_2: 3rd floor: type of air cleaner-pleated filters

Contain pleated filters?

(See 'ivfC23b_1' for full text of this form.)

%	N	VALUE	LABEL
100.0	1	1	Yes
	475	.	Blank - DNA

100.0 476 cases

Record/column: 3/113

ivfC23b_3: 3rd floor: type of air cleaner-ionizers

Ionizers?

(See 'ivfC23b_1' for full text of this form.)

%	N	VALUE	LABEL
100.0	1	5	No
	475	.	Blank - DNA

100.0 476 cases

Record/column: 3/114

ivfC23b_4: 3rd floor: type of air cleaner-electrostatic precipitators

Electrostatic precipitators?

(See 'ivfC23b_1' for full text of this form.)

%	N	VALUE	LABEL
100.0	1	5	No
	475	.	Blank - DNA

100.0 476 cases

Record/column: 3/115

ivfC23b_5: 3rd floor: type of air cleaner-ozone generators

Ozone generators?

(See 'ivfC23b_1' for full text of this form.)

%	N	VALUE	LABEL
100.0	1	5	No
	475	.	Blank - DNA

100.0 476 cases

Record/column: 3/116

ivfC23b_6: 3rd floor: type of air cleaner-other

Some other kind?

(See 'ivfC23b_1' for full text of this form.)

%	N	VALUE	LABEL
100.0	1	5	No
	475	.	Blank - DNA

100.0 476 cases

Record/column: 3/117

ivfC25a: 3rd floor: number of humidifiers

QUESTION ASKED IF HUMIDIFIERS USED ('ivfC23_c' eq 1):

How many humidifiers are used?

%	N	VALUE	LABEL
100.0	1	4	
	475	.	Blank - DNA

100.0 476 cases

Record/columns: 3/118-120

ivfC26a: 3rd floor: number of dehumidifiers

QUESTION ASKED IF DEHUMIDIFIERS USED ('ivfC23_d' eq 1):

How many dehumidifiers are used?

%	N	VALUE	LABEL
	1	998	DK
	475	.	Blank - DNA

100.0 476 cases

Record/columns: 3/121-123

ivfC27a: 3rd floor: number of desk fans

QUESTION ASKED IF DESK FANS USED ('ivfC23_e' eq 1):

How many desk fans are used?

%	N	VALUE	LABEL
100.0	1	2	
	1	998	DK
	474	.	Blank - DNA

100.0 476 cases

Record/columns: 3/124-126

OCCUPANT COMPLAINTS

oc1_a: Occupant complaints: too hot

Have there been any of the following occupant complaints related to the indoor environment? (READ CODES)

Too hot?

%	N	VALUE	LABEL
51.0	236	1	Yes
49.0	227	5	No
	3	8	DK
	10	9	Ref/MD
-----	----		
100.0	476	cases	

Record/column: 3/127

oc1_a1: Occupant complaints: how often too hot

QUESTION ASKED IF TOO HOT ('oc1_a' eq 1):

How often?

%	N	VALUE	LABEL
19.0	44	1	Once or twice
42.9	99	2	Not very often
24.2	56	3	Somewhat often
7.8	18	4	Very often
6.1	14	5	Constantly
	5	8	DK
	240	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 3/128

oc1_b: Occupant complaints: too cold

Too cold?

(See 'oc1_a' for full text of this form.)

%	N	VALUE	LABEL
53.6	248	1	Yes
46.4	215	5	No
	3	8	DK
	10	9	Ref/MD
-----	----		
100.0	476	cases	

Record/column: 3/129

oc1_b1: Occupant complaints: how often too cold

QUESTION ASKED IF TOO COLD ('oc1_b' eq 1):

How often?

%	N	VALUE	LABEL
19.1	46	1	Once or twice
44.0	106	2	Not very often
20.3	49	3	Somewhat often
8.7	21	4	Very often
7.9	19	5	Constantly
	7	8	DK
	228	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 3/130

oc1_c: Occupant complaints: too drafty

Too drafty?

(See 'oc1_a' for full text of this form.)

%	N	VALUE	LABEL
6.3	29	1	Yes
93.7	432	5	No
	5	8	DK
	10	9	Ref/MD

----- ---

100.0 476 cases

Record/column: 3/131

oc1_c1: Occupant complaints: how often too drafty

QUESTION ASKED IF TOO DRAFTY ('oc1_c' eq 1):

How often?

%	N	VALUE	LABEL
34.5	10	1	Once or twice
31.0	9	2	Not very often
27.6	8	3	Somewhat often
6.9	2	5	Constantly
	447	.	Blank - DNA

----- ---

100.0 476 cases

Record/column: 3/132

oc1_d: Occupant complaints: no air movement

Too little air movement?

(See 'oc1_a' for full text of this form.)

%	N	VALUE	LABEL
11.7	54	1	Yes
88.3	409	5	No
	3	8	DK
	10	9	Ref/MD
-----	----		
100.0	476	cases	

Record/column: 3/133

oc1_d1: Occupant complaints: how often no air movement

QUESTION ASKED IF TOO LITTLE AIR MOVEMENT ('oc1_d' eq 1):

How often?

%	N	VALUE	LABEL
27.8	15	1	Once or twice
44.4	24	2	Not very often
14.8	8	3	Somewhat often
5.6	3	4	Very often
7.4	4	5	Constantly
	422	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 3/134

oc1_e: Occupant complaints: odors

Odors?

(See 'oc1_a' for full text of this form.)

%	N	VALUE	LABEL
13.6	63	1	Yes
86.4	400	5	No
	3	8	DK
	10	9	Ref/MD

----- ---

100.0 476 cases

Record/column: 3/135

oc1_e1: Occupant complaints: how often odors

QUESTION ASKED IF ODORS ('oc1_e' eq 1):

How often?

%	N	VALUE	LABEL
40.3	25	1	Once or twice
32.3	20	2	Not very often
14.5	9	3	Somewhat often
4.8	3	4	Very often
8.1	5	5	Constantly
	1	8	DK
	413	.	Blank - DNA

----- ---

100.0 476 cases

Record/column: 3/136

oc1_f: Occupant complaints: something else

Something else?

(See 'oc1_a' for full text of this form.)

%	N	VALUE	LABEL
1.7	8	1	Yes (SPECIFY)
98.3	455	5	No
	3	8	DK
	10	9	Ref/MD

----- ---

100.0 476 cases

Record/column: 3/137

oc1_f1: Occupant complaints: how often other problems

QUESTION ASKED IF OTHER PROBLEMS ('oc1_f' eq 1):

How often?

%	N	VALUE	LABEL
50.0	4	1	Once or twice
12.5	1	2	Not very often
25.0	2	3	Somewhat often
12.5	1	5	Constantly
	468	.	Blank - DNA

----- ---

100.0 476 cases

Record/column: 3/138

oc1y: Occupant complaints: when was last complaint

When did the last complaint occur?

%	N	VALUE	LABEL
36.2	110	1	A few days ago
28.9	88	2	A few weeks ago
26.0	79	3	A few months ago
8.9	27	4	Years ago
	10	8	DK
	162	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 3/139

oc1z_1: Corrective action: none

Various types of corrective action could be taken. Please tell me which actions were taken in response to the complaints:

(READ EACH - CODE 1 IF TAKEN - CODE 5 IF NOT TAKEN)

no corrective action taken?

%	N	VALUE	LABEL
12.3	38	1	Yes
87.7	271	5	No
	5	8	DK
	162	.	Blank - DNA
-----	----		
100.0	476	cases	

Record/column: 3/140

oc1z_2: Corrective action: manager investigated

QUESTION ASKED IF CORRECTIVE ACTION TAKEN ('oc1z_1' eq 1):

the building manager investigated?

(See 'oc1z_1' for full text of this form.)

%	N	VALUE	LABEL
32.5	88	1	Yes
67.5	183	5	No
	5	8	DK
	200	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 3/141

oc1z_3: Corrective action: contractor investigated

QUESTION ASKED IF CORRECTIVE ACTION TAKEN ('oc1z_1' eq 1):

an outside contractor investigated?

(See 'oc1z_1' for full text of this form.)

%	N	VALUE	LABEL
20.3	55	1	Yes
79.7	216	5	No
	5	8	DK
	200	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 3/142

oc1z_4: Corrective action: supervisor investigated

QUESTION ASKED IF CORRECTIVE ACTION TAKEN ('oc1z_1' eq 1):

a supervisor investigated?

(See 'oc1z_1' for full text of this form.)

%	N	VALUE	LABEL
47.2	128	1	Yes
52.8	143	5	No
	5	8	DK
	200	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 3/143

oc1z_5: Corrective action: something else

QUESTION ASKED IF CORRECTIVE ACTION TAKEN ('oc1z_1' eq 1):

or something else? (SPECIFY)

(See 'oc1z_1' for full text of this form.)

%	N	VALUE	LABEL
16.2	44	1	Yes (SPECIFY)
83.8	227	5	No
	5	8	DK
	200	.	Blank - DNA
-----	----		
100.0	476		cases

Record/column: 3/144

OTHER BUSINESSES**ob1: Share building with other businesses**

Do you share your building with any other businesses?

%	N	VALUE	LABEL
35.2	164	1	Yes (SKIP TO 'ob3')
64.8	302	5	No
	10	9	Ref/MD
-----	----		
100.0	476	cases	

Record/column: 3/145

INTERVIEWER OBSERVATIONS

observ_1: Interviewer observations: understanding

Overall, how well do you feel the respondent UNDERSTOOD the questions on a scale from 1 to 10 with 1 being hardly understood at all, and 10 being complete understanding?

%	N	VALUE	LABEL
0.2	1	1	
0.6	3	7	
0.4	2	8	
7.4	35	9	
91.4	434	10	
	1	98	
-----	----		
100.0	476	cases	

Record/columns: 1/76-77

observ_2: Interviewer observations: accuracy

Overall, how confident are you about the accuracy (validity) of R's answers on a scale from 1 to 10 with 1 being not at all accurate and 10 being completely accurate?

%	N	VALUE	LABEL
0.2	1	1	
0.2	1	5	
0.4	2	6	
0.6	3	7	
1.7	8	8	
5.9	28	9	
90.9	432	10	
	1	98	
-----	----		
100.0	476	cases	

Record/columns: 1/78-79

observ_3: Interviewer observations: honesty

Overall, how honest do you think R was in answering the questions on a scale from 1 to 10 scale with 1 being hardly honest at all and 10 being completely honest?

%	N	VALUE	LABEL
0.2	1	1	
0.2	1	6	
0.2	1	7	
0.6	3	8	
1.7	8	9	
97.1	461	10	
	1	98	
-----	----		
100.0	476	cases	

Record/columns: 1/80-81

METHODOLOGICAL VARIABLES

repl: Replicate

%	N	VALUE	LABEL
18.5	88	1	
17.2	82	2	
18.7	89	3	
19.3	92	4	
19.1	91	5	
7.1	34	6	
-----	---		
100.0	476	cases	

Record/columns: 1/52-53

date: Interview date (yyyymmdd)

This variable contains the date that the interview was completed in YYYYMMDD format.

476 cases

Record/columns: 1/6-13

time: Interview time (hhmm)

This variable contains the time of day that the interview was completed. (in HHMM format)

476 cases

Record/columns: 1/14-17

htime: Total case handling time (minutes)

Total minutes elapsed during all periods that the case was accessed at the computer terminal by an interviewer (and supervisors in "entry mode"). This includes all time spent on dialings, introductions, enumeration, callbacks, interviewing, editing, and so on.

476 cases (Range of valid codes: 26-335)

Record/columns: 1/24-27

inum: Interviewer number

This variable contains the unique interviewer identification number of the interviewer who completed the case.

%	N	VALUE	LABEL
0.4	2	108	
3.2	15	109	
2.3	11	115	
0.4	2	150	
8.2	39	155	
2.5	12	171	
20.0	95	173	
4.6	22	174	
0.2	1	179	
0.6	3	180	
0.8	4	185	
1.1	5	186	
5.3	25	245	
4.4	21	350	
1.1	5	356	
2.7	13	357	
5.0	24	361	
8.8	42	365	
7.6	36	371	
8.2	39	372	
6.9	33	373	
5.7	27	396	

----- ---
100.0 476 cases

Record/columns: 1/34-36

dow: Interview day of week

This variable contains the day of the week that the interview was completed.

```
-----
      %      N  VALUE  LABEL
16.6    79      1  Monday
27.7   132      2  Tuesday
18.9    90      3  Wednesday
18.5    88      4  Thursday
18.1    86      5  Friday
  0.2     1      6  Saturday
-----
100.0  476 cases
```

Record/column: 1/38

ttnt: Total calls

```
      %      N  VALUE  LABEL
100.0     1      9
      475      .  Blank - DNA
-----
100.0  476 cases
```

Record/columns: 1/40-41

stime: Substantive interview time (minutes)

```

[allow int 4][loc 0/101]      [# total substantive int time on
zero

```

%	N	VALUE	LABEL
0.4	2	1	
0.2	1	2	
0.2	1	3	
0.2	1	6	
0.2	1	7	
0.4	2	8	
1.1	5	9	
4.6	22	10	
5.3	25	11	
5.9	28	12	
8.0	38	13	
8.2	39	14	
8.8	42	15	
8.0	38	16	
8.8	42	17	
8.0	38	18	
5.3	25	19	
3.6	17	20	
4.6	22	21	
3.8	18	22	
3.2	15	23	
2.1	10	24	
2.7	13	25	
0.8	4	26	
0.8	4	27	
0.4	2	28	
0.6	3	29	
1.1	5	30	
0.2	1	31	
0.4	2	32	
0.2	1	34	
0.2	1	38	
0.4	2	39	
0.2	1	41	
0.2	1	43	
0.2	1	48	
0.2	1	52	
0.2	1	57	
	1	.	Blank - DNA

```

----- ---
100.0 476 cases

```

```

Record/columns: 1/28-31

```


screen1_a: Screener: number of floors

First, how many stories is your building?

%	N	VALUE	LABEL
66.8	318	1	
27.9	133	2	
5.3	25	3	
-----	---		
100.0	476	cases	

Record/column: 1/69

screen2_a: Screener: floor area

What is the floor area of the building?

476 cases (Range of valid codes: 500-50,000)

Record/columns: 1/70-74

screen2_a1: Screener: estimate floor area

QUESTION ASKED IF R DOESN'T KNOW FLOOR AREA (screen2_a is 99998):

Would you estimate that it is less than 1,000 square feet, at least 1,000 but less than 50,000 square feet, or more than 50,000 square feet?

%	N	VALUE	LABEL
100.0	141	2	Between 1,000 and 50,000 sq ft
	335	.	Blank - DNA
-----	---		
100.0	476	cases	

Record/column: 1/75

hvac: Completed supplemental HVAC SAQ

At the end of the CATI interview, respondents were asked to complete a supplemental questionnaire with more details regarding their HVAC system. This variable records the status of these SAQs

%	N	VALUE	LABEL
85.1	405	0	Never returned
10.7	51	1	Complete
2.7	13	2	Partial
0.8	4	3	Refused
0.6	3	4	Post Office returned
-----	---		
100.0	476	cases	

Record/column: 3/146

APPENDIX A: Outcome of Fieldwork

Summary of Outcomes for CARB-SMCB 2008-09

	Number	% of Total	% of Eligible	
Total Selected Establishments	3,986	100.0%		
Ineligible sampling-units				
Out of Business	368	9.2		
Residence	206	5.2		
Language barrier/Other inel.	36	.9		
Duplicate listing	11	.3		
Outside CA	5	.1		
Total	626	15.7		
Screened out sampling-units				
Building has 4+ Floors	231	5.8		
No Rooftop HVAC Unit	553	13.9		
Building too Large/Small	500	12.5		
Built Before 1978	728	18.3		
Total	2,012	50.5		
Total Ineligible	2,638	66.2		
Eligible sampling-units	1,348	33.8	100.0	
Non-Response				
Informant Refusal	122	3.1	9.1	
Respondent Refusal	453	11.4	33.6	
No one ever available	230	5.8	17.1	
Establishment not located	67	1.7	5.0	
Total Non-Response	872	22.0	64.8	
Total Complete	476	11.9	35.3	% of
Completes				
--				
Supplemental HVAC SAQ	476		100.0	
--				
Never returned	405		85.1	
Complete	51		10.5	
Refused at phone interview	13		2.7	
Partial	13		2.7	

Returned Refused	4	.8
Post Office returned	3	.6

APPENDIX B: Text for 'other specify' Response Categories

Item ci3

Case Text

11090:distribution

11120:distribution electronic products

33150:coujnty club / recreation, restaurant .

41520:Auto repair, beauty supply- 1/2 is Meineke, 1/2 is Cosmo Beauty Supply

41520:

35160:federal law enforcement

11440:automotive repair

33500:

21600:sell lighting and audio video equipment.

13530:Marketing and technology company.

31650:underground utility surveys

33051:headquarters building for tribal administration, and their law

33051:offices

21281:warehouse

33351:retail items sold and also car wash

33351:d

33351:

41581:music store

41581:

25161:

25161:53 tenants, so R has difficulty deciding

31601:bail bonds

11591:Steele Distributor

11591:R who did interview was the owner TOM FOURMONT. He does not want

11591:the next survey sent to him, he wants us to send it to his store

January 25, 2010

11591:manager,Chris.

43122:prison

23242:IT

41282:Manufacturing

31242:Pharmacy

43342:Senior living- retirement home.

13332:just office..

13352:sell copiers

23502:Medical and non-medical offices..

43592:casino

11183:collision repair

25083:wholesale

31243:nightclub

11273:Education- college, computer training, also nonprofit org.

11273:ESL classes for San Diego college dist.

33303:Truck rental and lease.

41433:govt contractor - can't give out more info

33343:electronic retail/

33343:

53213:health and fitness club

21443:church

21443:

43443:One is job placement service office; other business is flower shop.

43443:There is a vacant storefront there as well.

55004:auto sales

43164:Pump Wharehouse and offices

31294:hospice and offices

33494:Accounting, Dentist and Doctor, and 1 vacancy

35214:casino

35214:

21625:Comsmetic manufactures

Item ci3b

Case Text
---- -----

31120:physical therapy

41260:Chiropractor's office

41260:.

23211:social services, mental health care

23441:Optical shop.

43192:collection of blood

41323:Pharmacy where they make drugs.

35024:blood banking

33474:Headquarters for home care and hospice nursing.

Item ci3c

Case Text
---- -----

33065:fast food / sit down

Item ci3d

Case Text
---- -----

51470:convenience with gasoline

33510:food wholesale

33510:

51901:convenience with gas

Item ci3e

Case Text
---- -----

41010:office supplies

41010:

51330:Tire sales

51710:Cabinet showroom & offices.

53260:Golf club place, semi-private. Retail store.
21670:retail facility for sales for water products
23061:equipment rental
43071:Ag Equipment like john deer
11261:construction and supply surveying
31321:flowers.
13321:freestanding bldn
13321:Motorcycle cales - free standing bldg
31361:convenience store.
43451:stand alone bldg.
43451:car wash
43062:sell building products
31342:industrial line of shops
41562:Comoics
51962:outlet center
31263:WIC store
41493:mini-mall
21014:convenience store
33034:mptprcycl/es
51124:glass sales
51124:and showroom
53194:Sells construction supplies to large suppliers/contractors
23574:retail flooring

Item ci3g
Case Text

33360:bowling association
33461:ARCADE

51012:Family fun center - arcade and laser tag, birthday party room

13223:school

31533:middle school

33503:Gambling casino.

51265:pre school, infants to 5 years

Item ci3h

Case Text

15010:credit reporting/finances

15080:social

21250:automobile delivery service.

51950:retirement home - meals cooked for them

51031:Child Care.

41051:pest control

43051:after school programs

31151:Insurance Services.

11291:Hair Salon

11291:

11331:pest control

23511:Staffing Services.

35002:public service

35002:

33112:child care

23232:technology company - speech application software

13312:environmental consulting

41492:attorney office

23462:state water agency

51882:Equipment rental (heavy equip).

53282:police operations

13003:computer services

13003:

43303:call center for Parks/recreation

33273:car delewarship

33273:this is an auto delearship, per r, they sale new cars, don't do
33273:repairs

41393:educational

53203:vocational skills center

25173:city adminstrative

31124:adult day care
31124:/

31124:adult day care

21154:Dry cleaning, clock shop

15074:conculting for handicapped (San Diego Service Center), other
15074:offices for other companies.

51304:Furniture Repair

43274:Engineering services for US Navy at China Lake.

13264:nursing home

31664:sell and service water cleaning equipment

15145:training, education and research related to disabled - schools,
adult

15145:center- DS is administrative, health, music room

21365:professional services ?

35015:mortgage loans

55005:Auto Sales and Service

Item ci3i

Case Text

23190:distributing, sales of communication products

11150:army recruiting

51300:plumbing and heating

25130:Construction, general contractor.

41710:whole retail distribitpr
21700:decorative plumbing manufacturer/wholesale
43141:Wholesale parts sales.
51531:Warehousing.
21631:Import Shipping Company.
31052:restaurant, golf shop, admin offices.
31142:wholesale distributor of taxi supplies
33202:Egg processing plant.
33242:Detention facility for juvenile deliquent.
51682:B2B solar panel systems they sell.
21692:silksreen garments
53342:do inventory on stores..hire clients to do inventory
21013:warehouse / admionistrative
21013:...and retail
41163:see note
13163:financial benefits
15093:.
21393:this business molds plastic
31603:Ship manuals.
53034:City Hall (police dept is next door, same address though).
53294:real estate
53294:

Item bd2b@4

Case Text

53010:Showroom and service area.

51080:interior/ painting

11090:painting, new carpet

33100:Facade, outdoors visible appearance, new meat case, dairy case, things

33100:particular to store.

23190:interior offices, additional bathrooms added'; lunchroom redesigned

55020:New carpet, paint, that kind of thing.

21250:created more warehouse space.

35110:new front office.

51510:bathroom was added

13470:5000 sq. ft. added. Additional HVAC system put into another end of
13470:the building.

33510:add-on

43540:metal bldg, added more passive ventilation

15290:Spa

13570:tenantat improvment, kitchen

31680: rennovated salad bar and booth

23041: two or three offices became one, main doors became double doors

41051:added some rooms and office spaces

33051:flooring and electrical systems

43181:HVAC units themselves replaced with new units

51341:Added 6000 square feet

43291:changed how the offices were configured, nothing was enhanced or improve

43291:to a grate degree for ventilation to make a difference

23441:Research Lab - lot of improvements in ventialation in that area.

35002:added whole other building in the back

13022:Added a new ac unit

13032:Kitchen

13032:

55022:New air conditioning units

31212:Foamed the whole roof for energy efficiency.

31212:

41312:Just interior tenant improvements, nothing to do with ventilation.

13332:4 bathrooms, two kitchens, a shower room

23462:new rooms

51792:Built out top floor

43552:Added washroom/ bathroom

43552:per R, the built a new washroom/bathroom that the public can enter from the outside but it is attached to the DS building

13003:dropped ceilings, new walls, etc.

43153:we modified and rerouted the ventilation systems..temporary

31263:new roof - they have to change it every year

43353:new roof

43403:they added a patio, and a door headed out to the patio, and some windows

43403:- windows.

13393:Changed carpeting, booths, lamps.

13533:reconstruction of downstairs

25173:ceilings raised

33004:Made building larger

55004:expanded the showroom about 15 ft

41094:volume of space - added space office

35024:replaced some HVAC units

21094:Interior wall; floor plan changes.

23094:raised ceilings

23094:

15044:was a light industrial warehouse, converted it to offices, added atriiums. at time, each suite had 1 or 2 HVAC / heat pumps

31124:traing down to connect the suites

51244:Rearranged interior space- moved non-load-bearing walls.

33174:New roof

15144:partial ventilation systems

51654:new roof

35214:remodel interior

13345:Fire REpair

13345:/.

13345:

15145:sunroofs

21145:replacing roof and paint

21505:drive thru window added

Item sifA7@g

Case Text

13030:just said: laminate

21090:marble

11120:slate

33150:stone

41710:epoxy coating

13201:Epoxy flooring in kitchen

13201:

11291:Laminant (sp?)

13321:

13321:spray on rubber.

31581:Laminate in bathrooms.

11012:Polyeurothane.

33012:vct

25072:Carpet tiles

13352:marble

13382:VCT - vinyl composition tiles

33402:marble finish

51822:Carpet made of rubber.

15093:other is composite tile which is differenct from ceramic per R

15093:as noted composite tile -different from ceramic tile per R

13293:marble flooring.

41433:pebbly tiles - looks like building

15203:trabertine

15203:

13503:Slate tile

53024:Stone flooring.

51124:Pergo / fake wood

43214:aggragate finish

43214:

51654:commercial tile

33404:brick-like tile

53244:finished expoxy

43454:marble

43494:travertine

33494:slate (stone)

15145:rubber matting

33165:Granite

Item sifB7@g

Case Text

11120:ECT

11120:

33012:vct

13123:commercial tile

55004:plywood

Item sifA7a

Case Text

15145:rubber matting

Item sifB7a

Case Text

55004:plywood

Item sul

Case Text

53010:Houses are on a different street. Big dealerships on either side.

11150:airport

41260:Commercial area- "whatever that is considered"/
41260:

33320:it's all fairgrounds

11380:industrial

51760:Auto mall - lots of auto dealers

11440:industrial park

15290:surrounded by water

33351:commercial

33461:industiral

41581:business park

11591:business park

35002:in the middle of the city

31242:commercial

13362:end of industrial park area; mix of residence and industrial
bldgs.

53272:business park

23522:Business park

43552:Mountains

21702:Industrial

33003:commercial

11133:suburban/rural

21203:commercial/retail

11183:commercial

25083:business district

53213:residential

11473:Mixed urban/residential area, she couldn't choose between them.

13533:waterfront

52013:Across the street, rail yards, commercial building next door,
52013:residences behind.

23024:Suburban/Rural- near Windsor and airport.

53194:Industrial park

Item os1b@1

Case Text

33500:50.

53001:55

53001:

Item os1b@2

Case Text

53001:55

23211:go off at night

25083:no air circulating when the timer goes off

Item os2b@1

Case Text

23111: R said he puts thermostat at 55

23111:55

25042:54

25042:

33402:off

23582:58

23582:

23025:50

43015:58

Item os3b@1

Case Text

13090:55

13090:

33360:on auto all the time

33500:50.

Item os3b@2

Case Text

33402:less than 60

25083:turned off after timer goes off

21605:55 at night6

21605:

Item os4b@1

Case Text

33150:58

33150:

53001:55

53001:

13181:58

13181:

41421:45

43451:50 degrees

25042:54

43342:55 degrees.

33402:off

23502:55

23502:

23582:58

43073:58

13223:50

53293:58 degrees.

53034:55

41274:58

41274:

13334:55

13334:

33374:55/

33374:

53274:55

33554:turn down to 50

21605:55

Item os4b@2

Case Text

33150:58

Item ic11a@3

Case Text

21704:not sure but not regular oven

Item ic22

Case Text

41010:office supplies/business machines

53010:Autos.

53010:Automotive

53040:sales services of auto vehicles.

33050:CARS

51330:Tire sales

51710:Cabinets.

51760:Auto sales

21670:retail store for water products and refilling water
bottles(commercial)
21670:

23061:equipment rental

51191:flower shop

31321:florist

13321:motorcycle dealership

31361:like a seven-eleven convenience store.

43451:car wash

11571:the store makes trophies.

43062:building materials

41172:Jewelry store.

33342:electronics, appliances

33402:automotive dealership

41542:Gas Station

41542:

43073:RV sales.

53083:Auto Sales and Parts

31263:food

11423:convenience store

11473:framing and art supplies

11034:party supplies and balloons

33034:motorcycle sakles

33054:auto

51124:showroom, mostly

51124:

51124:for glass

33164:Car sales

43234:Auto Dealership/Service place.

53154:restaraunt

53154:

33304:auotmotive

53194:All construction materials

23354:a TOY store

21484:Electronics store.

33415:Auto Sales

Item ic31ba@3

Case Text

33051:propane.

43592:propane

Item brA2bb

Case Text

23260:recycled carpet

23260:see note

23041:high traffic small pile carpet

23041:high traffic small pile carpet

23111: R said there was none

25042:dk

25072:No backing of this kind

13382:don't know what it is

43153:high grade commercial carpet-sure its not natural

13173:dk

25083:have no idea

33204:clued to the floor

Item brB2bb

Case Text

33391:padding glue down

11381:dk.

Item brA2c

Case Text

33051:

33051:it has a rag pad, looks like it has some kind of clothe in it

33051:he described as pieces of clothe streched out and no gluw was used

33051:staples on the walls were being use, did have pad didn't know what

33051:kind described to the best of his ability

13381:square ones that you can remove and replace

52011:polypopelene

43244:no pad

Item brB2c

Case Text

15290:horsehair rubber

11381:dk.

Item brA3b@5

Case Text

45050:California furnishings - metal and laminates
55020:Wood with fabric inserts - these are church pews.
43370:leather
51600:Combination glass and wood.
15290:apolostered furniture.
53083:vinyl seat cushion
43203:Fabirc, and vinly applostry
13193:vinyl
51453:Fabrick
13293:Some chairs have nylon in them, etc.
33164:vinyl
25074:cloth
41274:leather and composite
41274:
33474:Glass and metal table style.

Item brB3b@5

Case Text

55020:Wood with fabric inserts- they looks solid, might be plywood or
press

55020:board, but they look solid.

13470:Upholstered chairs.

13470:Upholstered chairs

55022:Fabric covered laminate

Item csAld@2

Case Text

13040:three times a week or more if needed

13040:

33170:3 times a week

51300:3xs a week

43370:as needed

41520:For shop, daily, they clean the floor; for both, they also clean weekly.

41520:

41520:See previous note.

51031:Five nights a week.

41051:three times a week

11381:four times a week.

15251:as needed

13312:twice a month

41392:3 to 4 times a week

13332:bathrooms 5 times a week, kitchen 3 times a week

13352:on request only

33452:All day long.

51822:Cleaned after every use. Irregular use = irregular cleaning schedule.

23502:Five days a week.

23502:

41023:Five days a week - M-F.

43043:Every other day.

43073:3 times a week.

41323:Monday thru Friday.

11273:2-3 times per day..

13293:3 days a week.

21393:at least 3 times a week

43403:2 to 3 times per day.

13393:On each shift- so 3 times/day.

11473:

11473:when customers complain

13503:Twice a day.

53293:3 times daily
53293:

51134:Three times a week.

51244:Three times a week.

53294:three times a week

13345:twice a day

Item csBld@2

Case Text

13090:depends; if space is opened once 1st floor full; if business is
slow

13090:and the space doesn't need to be opened then no cleaning is
needed

11381: four times a week.

15251:

15251:as needed

25161:cleaned three times a week, MWF.

23502:Five Days a week.

43073:3 times a week..

11273:Six times a day.

Item csAle@2

Case Text

51080:4 times/wk

13040:three times a week, if needed

13040:three times a week or more if needed

13040:

33100:For small spaces, tight spaces.

33100:Whenever necessary.

51850:Twice a day.

41051:three times a week

11381:four times a week.

31242:every other day

41392:3 to 4 times a week

33452:All day long.

51882:Once a week, plus there's a dustmop people use if things get too dusty./

51882:

41323:five days a week.

11273:When needed.

51244:Three times a week.

Item csB1e@2

Case Text

13090:depends on usage - if space not opened/used then no cleaning needed

11273:When needed.

Item csAlf@2

Case Text

21090:3 times a week

21090:three times a week

33170:3 times a week

51300:3xs per week

23380:5 days a week

51850:Once every 2 mos.

51031:5 nights a week.

31321:every other day

11381:four days a week.

25161:3x a week.

25161:

43122:3x a day

21142:Vacuum 3x week

41172:Three times a week.

33402:three times a week

23502:Five days a week (not weekends)..

33073:Five days a week.

11183:as needed

41323:5 days a week.

11273:Twice a day.

13293:3 times a week.

33024:3x week..

53024:As needed.

43054:3 times a week.

51244:three times/week or more.

23324:every other week day

25154:three times a week

53294:3 times a week

13345:twice a day

Item csBlf@2

Case Text

13090:depends on busines if busy will open second space thus will clean
but i

13090:if not opened will not clean

33320:M-F, every day after work.

11381:four times a week.

25161:mwf cleaning schedule.

43122:3 timers day

23502:Five Days a Week.

11273:2 -3 times'/day.

Item csAlr@4

Case Text

13020:some sort of wall mounted unit

13030:off-site

13030:Kept off-site

21090:under the kitchen sink

51190:not kept in the building

51190:

51190:

51190:Not kept in the building - brought in

51330:Brought in by janitorial service

41260:Under a sink

21250:in the break room.

21250:d

21250:

33230:contractor brings own cleaning supplies

45060:under the bathroom sink

51470:in the car wash, it has a storage room

35110:a garage outside the bldg.in storage..

35110:a garage outside the bldg in storage

33360:a cabinet in the restroom/./.

11380:company brings with them

51710:In the bathroom.

51800:in the bathroom

23490:engineer's office outside the building. Vendor brings in the items

51850:Near sink.

33500:Under sink.

51950:maintenance office

41680: in a staralizing room underneath the sink

43540:storage "area"

13530:Outside contractors bring them in.

21670:next to the bathroom, not an enclosed room

13570:under the sink in the kitchen

13570:

31680:table designated for cleaning stuff

31680:d

31680:

53001:off site

23111: in the warehouse, that is thier business

51191:under utility sinks and cabinets

15071:in the Kitchen

13161:Dish soap in kitchen.

31151:Cleaning materials brought in by outside contractor.

31151:Cleaning materials brought in by outside contractor

21301:under sink

51491:shelf designeated for cleaning area

51491:

31321:under sinks

33391:in another building

33391:

11381:stored in cleaners van.

51781:storage area

31581:Underneath kitchen counter and sink.

41691:cabinet under sink

43551:chemical dispense system (?)

53331:outside of the building
53331:

41771:Misc. shelves in dishwashing area

33591:Kept on back dock, possibly spray bottles throughout restaurant..

51012:In a kitchen area - big wall units

11012:Various places in bathroom and around kitchen.

43112:in the sink under the kitchen

43122:supply room to hand out materials

31142:kitchen cupboard

25042:custodian's closet

23232:under kitchen sink

25072:Kitchen area has some materials for washing dishes and sink -
25072:clorox, etc

41272:Under the sink in the kitchen.

25082:another building

31242:metal cabinet

13312:kitchen

31342:by the sink

33342:on janitor's shelf

13382:janitor brings them in

51682:restroom

15232:warehouse

15232:q
15232:

51822:Cupboard in Kitchen.

51882:Under the front counter, so people don't walk away with it.

23522:In engineering shop for corrosives and flammables

41722:Janitor's closet in another building

52062:shelf

53342:on the lower floor where the garage is

52072:cabinets

21702:Back room, (not a storage room per R())

21702:I probed R to see if backroom was a storage room and she said they

21702:don't really store anything in there

41023:Brought by outside cleaning crew, then taken when they leave.

21053:kitchen

21133:Bathroom.

13123:some are kept in each dept.

13123:

51223:they take back cleaning materials with them, we only keep their vacuum

51223:here.

15093:offsite maintenance storage area as they buy in bulk

13193:chemical tower, dispense unit

13203:supply cabinet

31243:rack in the back of the kitchen

31263:back of a store

51453:A cabinet in the bathroom

21393:restroom in cabinet

21443:separate location

21473:In the Bathroom.

31453:cabinet in bathroom

11423:in the bathroom

33493:Shelf by the back door.

11473:locked cabinet in the back room

13503:Area on back dock where all chemicals are kept.

41703:office

52013:

11553:in bathroom and under sink

43044:Back dock

53024:Might be some in the break room under the sink..

51124:restroom under sink

51244:Undercabinet area in sterilization room.

51294:outside

51294:

51304:shelves in bathroom

51344:under the sink in the bathroom

41274:bathroom and under kitchen sink

41274:

53154:brought in, no inside storage at all

41294:brings with him

15144:"housekeeping locker"

53194:For the most part the stuff is brought in by the cleaning crew

51534:The supplies are stored in the space where they're used ie. if cleaning

51534:supply is for the kitchen it's store there; if cleaning supply is for

51534:the bathroom it's stored there

13334:boxes

31384:janitorial service rent their own rented shed

51654:alcove with sink, open area

21484:Bathroom.

43454:cleaning crew bring materials in - not stored on premises

51834:cabinet -office area

11484:bathroom in shop

25154:unders sink in lunchroom

41654:underneath restroom sink

13295:dishwashing area

13345:chemical storage area

21085:back room

23405:deli dept, meat dept, etc.

33065:some cabinets

43015:each exam room

45015:separate laundry room

51045:janitor provides equipment as part of service

51205:in a cabinet

51675:on wall by sink, open area with rack

51725:lab storage area

Item csBlr@4

Case Text

51190:R: "So you're calling from UC Berkeley... are you trying to make us

51190:all use green stuff?"

51190:

51190:Brought in from outside with contractors

11120:first floor

33390:downstairs.

33390:

13470:Some materials kept under a sink.

35081:Brought in by outside contradctor

33391:another building

11381:matrerials stored in van.

55022:Brought in by contractor

23522:corrosivfes and flammables in engin dept

23542:bathroom

13123:in a hallway

13123:

53083:all on first floor

13203:all are kept on first floor

41353:on first floor only

21443:same room as first floor stuff.

13433:stored in another bldg

51244:All cleaning materials kept offsite by outside contractor;

51244:except for virucide, which is kept in sterilization area.

Item csClr@4

Case Text

23522:corrosives and flammables

Item csA2b

Case Text

53040:once a year. outside

53040:

11120:bi-monthly

11120:

53090:annually

15120:when there's a problem

23260:bi weekly

23260:

43270:once a year

41520:Every two months.

33031:Only when there's a problem, doesn't even know if there are any.

31181:bi annually

11092:Twice a month.

43122:2 times month

23232:once a year

41272:Every other month.

23322:bi-monthly

51542:only as needed

33342:every other month

51822:As needed. Inspection done monthly; not always a need for spraying, etc.

51822:

51882:Every so often, will spray along rubber part of building where ants

51882:are getting in.

23522:As needed

41023:Things are checked once a month; pesticide sprayed as needed; hasn't

41023: been needed lately.,

41353:exterior not done

11423:every 2 months or as needed

51024:Don't know

51024:

53024:as needed.

51654:every two weeks

21484:Used as needed - infrequent need for it.

53244:periodically

33065:every third week

51045:once a year

Item csB2b

Case Text

13181:as needed

43122:2x month

51542:done as needed

23522:when needed

13173:as needed

Item csC2b

Case Text

43342:as needed.

23522:when needed

Item csA2d

Case Text

15010:only if needed

53040:once in past 12 years.

53040:

55020:Only as necessary b/c of chemicals involved- have to give 72
hours notice

55020:e to parents, so they avoid doing that.

15120:when needed

23380:annually

23380:

33380:When needed.

13410:As needed- when someone complains.

41520:Every two months.

23490:only when there is an ant problem. One time has it been needed

51850:As needed.

41630:as needed

33510:every other week

33510:

33510:every two weeks

33510:

53310:very sporadic

41710:as needed 9usually once a year)

21700:as need bases and only specific location

51031:as needed.

33051:not as often as exterior but they do sometimes, no specific
timeset

15071:as needed

45051:As needed
45051:As needed.
13181:as needed
31181:Bi-annually
43291:on call, if there is ants or something
23491:only if there's a problem.
35171:as needed
51012:As needed
35002:only in extreme situations do we apply interior pesticide
33012:rarely.
51172:as needed
11092:Up to the individual tenants.
43122:2 times month
21142:As needed.
43192:as needed, not very often
13212:As needed
41272:Every other month.
23322:bi-monthly
43342:Done as needed/as per demand.
51822:As necessary.
43482:once every two years for ants
51882:When ants are seen in the inside of the building.
23522:as needed
41642:as needed
13173:as needed
33273:as needed
11273:When requested.
31333:Every 3 mos.

41393:as needed, when they think it needs doing
35123:as needed
41433:once a year
15203:on request
21443:as needed.
11423:every 2 months
11553:only once a year at most
43583:as needed
51024:Don't know
23024:The few problems they've had could be taken care of with vaccum
and
23024:orange-type pesticide, nontoxic biodegradeable..
23024:Nontoxic pesticide used only when there's a complaint.
23024:see above.
33024:only if there's a problem
53024:as needed.
55004:if needed
51134:As needed.
21094:Doesn't know; maybe annually; may not need to be done at all
21094:if exterior done- not used unless there's a problem.
43164:as needed
51244:Used only when there's a problem (none in last 7 years).
51294:as needed
25074:as needed
15144:as needed
21484:As needed. Was applied at same time as exterior pesticide when
there
21484:was an ant problem back in July- no need for exterio or int
21484:pesticide since.
53244:periodically, as needed
33474:As needed- if we find we have ants inside.
52014:every six months

21625:they come insidee and check, but not regualry applied inside

33065:every three weeks

43215:once or twice a year

51265:as needed

Item csB2d

Case Text

15010:as needed

23490: as needed inside

13181:as needed

51012:As needed

33012:rarely..

43122:2x month

13212:As needed

43342:As required.

23522:When needed

41642:as needed

13173:as needed

11273:As requested.

55004:as needed

21094:Interior pesticide used as needed; which may be semi-annual,
annual, o

21094:or other- ants, when it rains...

51244:Only used if there is a call for it.

Item csA2h@4

Case Text

51882:Under the counter, so it doesn't disappear.

43593:gas in the walls

43593:

43593:There are tubes throughout the walls of the building that contain a

43593:pesticidal gas

45014:in cabinets

45014:they have cabinets for some storage

Item csB2h@4

Case Text

43593:There are tubes throughout the building walls that contain a
43593:pesticidal gas

Item ivfA23b@6

Case Text

53051:propane generators.

55022:Pleated filter, gas filter and hepa filter

43342:Probably, but R doesn't know.

41323:Clean room with its own filterong, etc- sterile room.

43403:battery operated.

43044:dont know

43044:

35214:UV

Item ocl@f

Case Text

23041:direction of air flow from the vents, some of the vent locations
23041:dont have the vents to do the direction just an open space..
23041:they are installing vent regulated to detour the air different
ways
23041:for the flow

13032:mold

13032:

23502:They want to open a window once in a while, and they can't b/c
23502:the building is airtight.

53272:wasps

43013:alergy

31533:off and on varies

23024:Personal Hygiene Odors.

23574:we need windows

Item oclz@5

Case Text

53010:Upper management investigated and responded. New air conditioning unit

53010:came in as replacement.

53010:

53040:close doors

35040:an engineer in-house

35040:see note prev. AN in-house engineer investigated

55020:Inside crew handles complaints, outside contractor is brought in if

55020:crew cannot handle it.

33170:Isolated employee complained and we turned the heat up a little -

33170:no formal investigation needed - simple response by employees there

33170:at the time

23380:she said "put on a sweater"

51710:Actually changed the thermostat.

41620:Put on a sweater

21600:employees know where the thermostats are

41680:coworker

53310:we just do what we want, if we're too hot or too cold, we fix it

53310:ourselves.

15290:inhouse engineer

31151:Turned on desk fan.

31151:

31181:Lowered the thermostat

13201:AC wasn't turned on.

51491:complain to landowner to ask for section cooling but there isnt much
51491:they can do

13381:corporate office took care of it.

23491:ac breaks. contractor repairs.

53331:relocate guest, or adjust thermostat

13032:cleaned out

55022:Buildiing facilitator investigates

33242:Readjusted temperature for employee complaint.

33242:

13312:samples smell bad - they close them up

43552:had thermoastat fixed

23582:pipes re[ppalced

23582>Note should read the oder was being caused by a bad pipe, so the they
23582:had the pipe replaced

21702:air condition was repaired

21323:the business is a hair salon and nail salon. smells from different
21323:products used. Each station has an air purifier and doors are open
21323:@ times to let air circulate

41353:thermostat adjusted

53203:put a lock on the thermostat box - they were changing the temp.
53203:too much.

21393:had broken thermostat that needed to be replaced

41433:individuals change thermostat settings

33503:We opened up an Economizer- they allow indoor smoking.

13503:"We just raised the temperature."

53293:Took burnt toast out, toasted some new toast.

31014:she plugged in space heater

31014:

53024:Just turned the fan on.

21094:Maintenance made adjustment on master stats.

43234:Someone turned up the heat or turned it down.

43274:Someone either used a space heater or put on a sweater.

33304:adjusted thermostat

51654:employees note it's cold, not customers

23025:turn heat up

45015:taken care of at station level, whatever the problem is

51675:staff took care of itr

Appendix F.

Codebook for the Heating, Ventilation and Air Conditioning SAQ (2008)

**University of California
Berkeley**

CODEBOOK

for the

HEATING, VENTILATION AND AIR CONDITIONING SAQ (2008)

(71 completed cases)

Sponsor: California Air Resources Board (CARB)

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INTRODUCTION

DATA PROCESSING

The data entry, verification of the data, and the construction of data sets were conducted by the Data Management Unit of the Survey Research Center at the University of California, Berkeley.

1. After receiving the completed, self-administered questionnaires (SAQs) from the field, they were numbered sequentially and filed according to work assignments.
2. A direct data entry (DDE) instrument using CASES software was designed specifically for these collection instruments. Only valid codes are accepted by the entry program, and some logical checks were added to maintain certain coding conventions.
3. All cases were entered into computer memory twice, by two different people at different times. This procedure offers not only 100% verification of the data, but also saves time should there require a revision of the entry instrument (i.e., additional valid codes, increase valid code ranges, or the need for new or improved coding rules).
4. Batches of paired cases were compared by a computer program which identifies discrepancies between the two entries. These differences were then checked against the original case documents. Once the correction was made to one of the paired entries, the duplicate case was discarded.

The "cleaned" batch of data cases was then checked yet again by another computer program which is very similar to the entry program (i.e., only valid codes are accepted and all logical checks are enforced). The cases which successfully complete this process are not only considered "cleaned" but "certified."

5. Certified data cases were then submitted for output. The cases become part of a comma delimited file (.csv) formatted to contain each data case as a single record with a length of 1046 columns.

GENERAL CODING CONVENTIONS

1. All cases delivered to the Data Management Office were considered valid and complete. No preliminary effort was made to delete or exclude any case from the data set.
2. When no discriminate choice could be determined, or when no choice or multiple, conflicting choices were made on any particular question, that item was coded as "missing data." Likewise, if an item was expected to hold data and had none, that item was considered to have missing data.

DEFINITIONS:

INPUT LOCATION	= Location of variable within data set. In fixed format, this would be record "1/column" location.
CODE (VALUE)	= Numeric value given to each discrete, response category. May also reflect the quantitative value of a continuous variable.
NUMBER (N)	= Frequency of response.
PERCENT (PCT)	= Percentage of response.
CUMULATIVE (CUM.PCT)	= Cumulative percentage.
MISSING DATA (MD)	= Code value given to any question which was unanswered or refused by the respondent; was missed by the interviewer; or was uncodeable.
BLANK - DNA (DNA)	= The variable field is blank in the data set because the question does not apply. Typically, these are questions embedded within a "SKIP" pattern.

A note on "blank" values: If a field is blank in the data file, the codebook indicates that fact by placing a period (.) in the corresponding code value column. Fields left blank in the data file generally indicate that those variables are not relevant for a specific respondent because of the answer to a preceding question.

GENERAL DIRECTIONS:

- * For most questions, there are numbered answer categories. For those questions, please check the answer category that best represents your answer or experience. Most questions are looking for a single answer. In those instances where there are instructions to "Check all that apply," please check each answer category that applies to your (building's) situation.
- * If none of the answers are just right for you, please check the one that fits you the best.
- * Other questions have blank spaces to allow you room to answer the question with a written response. If you need more room to answer these kinds of questions, please use the back of the page (be sure to indicate the question number it refers to).
- * In some places there will be directions about which question to answer next. If there are no directions, then go to the very next question.

Please mail this survey back to us in the enclosed envelope. No stamps are needed. Thank you for your assistance with this important project.

Please answer the questions in this survey with the following building address in mind:

BUILDING

ADDRESS: _____

CASE IDENTIFICATION**CASEID:** Case ID Number

71 cases (Range of valid codes: 11,012-53,293)

Data type: numeric

Record/columns: 1/1-5

seqid: Case Sequential ID Number

71 cases (Range of valid codes: 1-1,071)

Data type: numeric

Record/columns: 1/7-11

MAINTENANCE

q1: HVAC Systems Maintenance

Who does routine maintenance of the HVAC systems?

%	N	VALUE	LABEL
74.6	53	1	Contractor
11.3	8	2	Building manager
5.6	4	3	Janitorial staff
8.5	6	4	Other
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/13

q2: Maintenance Training

What is the level of training of the person who does routine maintenance of the HVAC systems?

%	N	VALUE	LABEL
1.5	1	1	None
10.3	7	2	Certificate
79.4	54	3	Licensed
7.4	5	4	On the job
1.5	1	5	Other
	3	9	Missing Data
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/15

SPACE INTERIOR FINISHES

q3x: Number of Floors Given

%	N	VALUE	LABEL
60.6	40	1	
33.3	22	2	
6.1	4	3	
	5	99	Missing Data
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99
 Record/columns: 1/17-18

q3aft: FLOOR #1: Floor-Ceiling (Feet)

What is the approximate distance from the floor to the ceiling in the space?

%	N	VALUE	LABEL
23.1	15	8	
24.6	16	9	
26.2	17	10	
7.7	5	12	
1.5	1	13	
3.1	2	15	
3.1	2	16	
3.1	2	18	
1.5	1	19	
3.1	2	22	
1.5	1	25	
1.5	1	27	
	1	99	Missing Data
	5	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99
 Record/columns: 1/20-21

q3ain: FLOOR #1: Floor-Ceiling (Inches)

%	N	VALUE	LABEL
10.0	1	2	
10.0	1	4	
70.0	7	6	
10.0	1	10	
	55	0	
	6	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99
 Record/columns: 1/23-24

q3atot: FLOOR #1: Floor-Ceiling (TOTAL Inches)

%	N	VALUE	LABEL
18.5	12	96	
1.5	1	100	
3.1	2	102	
18.5	12	108	
1.5	1	110	
3.1	2	114	
1.5	1	118	
23.1	15	120	
3.1	2	126	
6.2	4	144	
1.5	1	150	
1.5	1	156	
3.1	2	180	
3.1	2	192	
3.1	2	216	
1.5	1	228	
3.1	2	264	
1.5	1	300	
1.5	1	324	
	1	0	
	5	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 999
 Record/columns: 1/26-28

q3bft: FLOOR #2: Floor-Ceiling (Feet)

What is the approximate distance from the floor to the ceiling in the space?

%	N	VALUE	LABEL
15.4	4	8	
30.8	8	9	
38.5	10	10	
3.8	1	12	
7.7	2	15	
3.8	1	20	
	45	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99

Record/columns: 1/42-43

q3bin: FLOOR #2: Floor-Ceiling (Inches)

%	N	VALUE	LABEL
16.7	1	2	
16.7	1	3	
66.7	4	6	
	20	0	
	45	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99
 Record/columns: 1/45-46

q3btot: FLOOR #2: Floor-Ceiling (TOTAL Inches)

%	N	VALUE	LABEL
11.5	3	96	
3.8	1	102	
15.4	4	108	
3.8	1	110	
3.8	1	111	
7.7	2	114	
34.6	9	120	
3.8	1	126	
3.8	1	144	
7.7	2	180	
3.8	1	240	
	45	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 999
 Record/columns: 1/48-50

q3cft: FLOOR #3: Floor-Ceiling (Feet)

What is the approximate distance from the floor to the ceiling in the space?

%	N	VALUE	LABEL
50.0	2	9	
25.0	1	10	
25.0	1	22	
	67	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99
 Record/columns: 1/64-65

q3cin: FLOOR #3: Floor-Ceiling (Inches)

%	N	VALUE	LABEL
100.0	1	6	
	3	0	
	67	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99
 Record/columns: 1/67-68

q3ctot: FLOOR #3: Floor-Ceiling (TOTAL Inches)

%	N	VALUE	LABEL
25.0	1	108	
25.0	1	114	
25.0	1	120	
25.0	1	264	
	67	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 999
 Record/columns: 1/70-72

q4a: FLOOR #1: Suspended Ceiling

Does the space have a suspended ceiling?

%	N	VALUE	LABEL
83.3	55	1	Yes
16.7	11	2	No
	5	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/30

q4b: FLOOR #2: Suspended Ceiling

Does the space have a suspended ceiling?

%	N	VALUE	LABEL
92.0	23	1	Yes
8.0	2	2	No
	1	9	Missing Data
	45	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/52

q4c: FLOOR #3: Suspended Ceiling

Does the space have a suspended ceiling?

%	N	VALUE	LABEL
75.0	3	1	Yes
25.0	1	2	No
	67	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/74

q5aft: FLOOR #1: Depth of Plenum (Feet)

What is the approximate depth of the plenum, that is, the distance from the suspended ceiling to the floor above?

%	N	VALUE	LABEL
11.1	5	1	
20.0	9	2	
22.2	10	3	
20.0	9	4	
2.2	1	5	
4.4	2	7	
2.2	1	8	
2.2	1	9	
8.9	4	10	
2.2	1	11	
2.2	1	14	
2.2	1	15	
	10	99	Missing Data
	16	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99
 Record/columns: 1/32-33

q5ain: FLOOR #1: Depth of Plenum (Inches)

%	N	VALUE	LABEL
16.7	2	4	
83.3	10	6	
	33	0	
	26	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99
 Record/columns: 1/35-36

q5atot: FLOOR #1: Depth of Plenum (TOTAL Inches)

%	N	VALUE	LABEL
11.1	5	18	
15.6	7	24	
2.2	1	28	
2.2	1	30	
15.6	7	36	
6.7	3	42	
20.0	9	48	
2.2	1	60	
2.2	1	88	
2.2	1	90	
2.2	1	96	
2.2	1	108	
8.9	4	120	
2.2	1	132	
2.2	1	168	
2.2	1	180	
	10	0	
	16	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 999
 Record/columns: 1/38-40

q5bft: FLOOR #2: Depth of Plenum (Feet)

What is the approximate depth of the plenum, that is, the distance from the suspended ceiling to the floor above?

%	N	VALUE	LABEL
15.8	3	1	
15.8	3	2	
36.8	7	3	
15.8	3	4	
5.3	1	5	
5.3	1	6	
5.3	1	8	
	4	99	Missing Data
	48	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99
 Record/columns: 1/54-55

q5bin: FLOOR #2: Depth of Plenum (Inches)

%	N	VALUE	LABEL
83.3	5	6	
16.7	1	9	
	13	0	
	52	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99
 Record/columns: 1/57-58

q5btot: FLOOR #2: Depth of Plenum (TOTAL Inches)

%	N	VALUE	LABEL
15.8	3	18	
10.5	2	24	
5.3	1	30	
26.3	5	36	
5.3	1	42	
5.3	1	45	
15.8	3	48	
5.3	1	60	
5.3	1	72	
5.3	1	96	
	4	0	
	48	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 999
 Record/columns: 1/60-62

q5cft: FLOOR #3: Depth of Plenum (Feet)

What is the approximate depth of the plenum, that is, the distance from the suspended ceiling to the floor above?

%	N	VALUE	LABEL
50.0	1	1	
50.0	1	4	
	1	99	Missing Data
	68	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99
 Record/columns: 1/76-77

q5cin: FLOOR #3: Depth of Plenum (Inches)

%	N	VALUE	LABEL
100.0	1	6	
	1	0	
	69	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99
 Record/columns: 1/79-80

q5ctot: FLOOR #3: Depth of Plenum (TOTAL Inches)

%	N	VALUE	LABEL
50.0	1	18	
50.0	1	48	
	1	0	
	68	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 999
 Record/columns: 1/82-84

BUILDING EQUIPMENT

q6: Supplemental AC Devices

Besides the package rooftop units, are there any supplemental air conditioning devices?

%	N	VALUE	LABEL
27.1	19	1	Yes
72.9	51	2	No
	1	9	Missing Data
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/86

q7: Supplemental Heating Devices

Besides the package rooftop units, are there any supplemental heating devices?

%	N	VALUE	LABEL
19.7	14	1	Yes
80.3	57	2	No
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/88

q8: Space Ventilation System Reconfigured

Has the space ventilation system been reconfigured
based on space use changes, including modifications
of the air handler, ductwork or diffusers?

%	N	VALUE	LABEL
36.9	24	1	Yes
63.1	41	2	No
	6	9	Missing Data

----- --
100.0 71 cases

Data type: numeric
Minimum code defined as valid: 1
Missing-data code: 9
Record/column: 1/90

HVAC OPERATING SCHEDULE

q9: Cool Setting When Space Occupied

What is the thermostat setting for cooling when the space is occupied?

%	N	VALUE	LABEL
5.8	4	68.0	
7.2	5	70.0	
17.4	12	72.0	
7.2	5	73.0	
1.4	1	73.5	
24.6	17	74.0	
14.5	10	75.0	
8.7	6	76.0	
10.1	7	78.0	
1.4	1	79.0	
1.4	1	80.0	
	2	999.9	
-----	--		
100.0	71	cases	

Data type: numeric
 Decimals: 1
 Minimum code defined as valid: 0
 Missing-data code: 999.9
 Record/columns: 1/93-96

q10: Cool Setting When Space Unoccupied

What is the thermostat setting for cooling when the space is unoccupied?

%	N	VALUE	LABEL
33.8	23	0.0	
1.5	1	55.0	
1.5	1	62.0	
1.5	1	66.0	
1.5	1	68.0	
4.4	3	72.0	
1.5	1	74.0	
1.5	1	75.0	
1.5	1	76.0	
10.3	7	78.0	
1.5	1	79.0	
7.4	5	80.0	
7.4	5	82.0	
2.9	2	83.0	
1.5	1	84.0	
16.2	11	85.0	
1.5	1	86.0	
2.9	2	90.0	
	3	999.9	
-----	--		
100.0	71	cases	

Data type: numeric
 Decimals: 1
 Minimum code defined as valid: 0
 Missing-data code: 999.9
 Record/columns: 1/99-102

q11: Heat Setting When Space Occupied

What is the thermostat setting for heating when the space is occupied?

%	N	VALUE	LABEL
1.4	1	0.0	
2.9	2	65.0	
29.0	20	68.0	
5.8	4	69.0	
26.1	18	70.0	
2.9	2	71.0	
18.8	13	72.0	
1.4	1	73.0	
4.3	3	74.0	
2.9	2	75.0	
1.4	1	77.0	
1.4	1	78.0	
1.4	1	80.0	
	2	999.9	
-----	--		
100.0	71	cases	

Data type: numeric

Decimals: 1

Minimum code defined as valid: 0

Missing-data code: 999.9

Record/columns: 1/105-108

q12: Heat Setting When Space Unoccupied

What is the thermostat setting for heating when the space is unoccupied?

%	N	VALUE	LABEL
37.7	26	0.0	
2.9	2	50.0	
8.7	6	55.0	
4.3	3	58.0	
10.1	7	60.0	
1.4	1	61.0	
2.9	2	62.0	
4.3	3	64.0	
11.6	8	65.0	
1.4	1	66.5	
5.8	4	68.0	
2.9	2	70.0	
2.9	2	72.0	
1.4	1	74.0	
1.4	1	82.0	
	2	999.9	
-----	--		
100.0	71	cases	

Data type: numeric

Decimals: 1

Minimum code defined as valid: 0

Missing-data code: 999.9

Record/columns: 1/111-114

q13a: HVAC Start Before Occupied

Does the HVAC system start before occupants enter the space?

%	N	VALUE	LABEL
57.1	40	1	Yes
42.9	30	2	No
	1	9	Missing Data

----- --
100.0 71 cases

Data type: numeric
Minimum code defined as valid: 1
Missing-data code: 9
Record/column: 1/116

q13hh: How Long HVAC Before Occupants (Hours)

How long does the HVAC system come on before occupants enter the space?

%	N	VALUE	LABEL
34.2	13	0	
39.5	15	1	
15.8	6	2	
10.5	4	24	
	2	99	Missing Data
	31	.	(Does not apply)

----- --
100.0 71 cases

Data type: numeric
Minimum code defined as valid: 0
Missing-data code: 99
Record/columns: 1/118-119

q13mm: How Long HVAC Before Occupants (Minutes)

How long does the HVAC system come on before occupants enter the space?

%	N	VALUE	LABEL
65.8	25	0	
5.3	2	15	
2.6	1	20	
26.3	10	30	
	2	99	Missing Data
	31	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 0
 Missing-data code: 99
 Record/columns: 1/121-122

q13tot: How Long HVAC Before (TOTAL Minutes)

%	N	VALUE	LABEL
5.4	2	15	
2.7	1	20	
24.3	9	30	
37.8	14	60	
2.7	1	90	
16.2	6	120	
10.8	4	1440	
	1	0	
	2	9999	Missing Data
	31	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9999
 Record/columns: 1/124-127

q13c: Why Start HVAC Before Occupants

Why does the HVAC system start before occupants enter the space?

%	N	VALUE	LABEL
74.4	29	1	To heat or cool the space
0.0	0	2	To bring in out side air
25.6	10	3	Both
	1	9	Missing Data
	31	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/129

q14a: HVAC System Stay On

Does the HVAC system stay on after all occupants have left the space?

%	N	VALUE	LABEL
30.4	21	1	Yes
69.6	48	2	No
	2	9	Missing Data
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/131

q14hh: How Long HVAC After Occupants (Hours)

How long does the HVAC system stay on after occupants have left?

%	N	VALUE	LABEL
27.8	5	0	
27.8	5	1	
5.6	1	2	
5.6	1	3	
5.6	1	16	
27.8	5	24	
	3	99	Missing Data
	50	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 0
 Missing-data code: 99
 Record/columns: 1/133-134

q14mm: How Long HVAC After Occupants (Minutes)

How long does the HVAC system stay on after occupants have left?

%	N	VALUE	LABEL
77.8	14	0	
5.6	1	23	
11.1	2	30	
5.6	1	33	
	3	99	Missing Data
	50	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 0
 Missing-data code: 99
 Record/columns: 1/136-137

q14tot: How Long HVAC After (TOTAL Minutes)

%	N	VALUE	LABEL
5.4	2	15	
2.7	1	20	
24.3	9	30	
37.8	14	60	
2.7	1	90	
16.2	6	120	
10.8	4	1440	
	1	0	
	2	9999	Missing Data
	31	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9999
 Record/columns: 1/124-127

When the building is occupied, how is the fan controlled?
 (Check all that apply)

q15a: FAN CNTRL OCC: Always On

%	N	VALUE	LABEL
21.4	15	1	Yes
78.6	55	2	No
	1	9	ENTIRE Q15a-g Missing Data
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/144

q15b: FAN CNTRL OCC: Always Off

%	N	VALUE	LABEL
1.4	1	1	Yes
98.6	69	2	No
	1	9	ENTIRE Q15a-g Missing Data
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/146

q15c: FAN CNTRL OCC: Cycles Heat or Cool

%	N	VALUE	LABEL
61.4	43	1	Yes
38.6	27	2	No
	1	9	ENTIRE Q15a-g Missing Data
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/148

q15d: FAN CNTRL OCC: Manually Operated

%	N	VALUE	LABEL
12.9	9	1	Yes
87.1	61	2	No
	1	9	ENTIRE Q15a-g Missing Data
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/150

q15e: FAN CNTRL OCC: Scheduled Timer

%	N	VALUE	LABEL
22.9	16	1	Yes
77.1	54	2	No
	1	9	ENTIRE Q15a-g Missing Data
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/152

q15f: FAN CNTRL OCC: Occupancy Sensor

%	N	VALUE	LABEL
1.4	1	1	Yes
98.6	69	2	No
	1	9	ENTIRE Q15a-g Missing Data
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/154

q15g: FAN CNTRL OCC: Other

%	N	VALUE	LABEL
2.9	2	1	Yes
97.1	68	2	No
	1	9	ENTIRE Q15a-g Missing Data
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/156

When the building is not occupied, how is the fan controlled?
(Check all that apply)

q16a: FAN CNTRL UNOCC: Always On

%	N	VALUE	LABEL
4.3	3	1	Yes
95.7	66	2	No
	2	9	ENTIRE Q16a-g Missing Data
-----	--		
100.0	71		cases

Data type: numeric
Minimum code defined as valid: 1
Missing-data code: 9
Record/column: 1/158

q16b: FAN CNTRL UNOCC: Always Off

%	N	VALUE	LABEL
46.4	32	1	Yes
53.6	37	2	No
	2	9	ENTIRE Q16a-g Missing Data
-----	--		
100.0	71		cases

Data type: numeric
Minimum code defined as valid: 1
Missing-data code: 9
Record/column: 1/160

q16c: FAN CNTRL UNOCC: Cycles Heat or Cool

%	N	VALUE	LABEL
37.7	26	1	Yes
62.3	43	2	No
	2	9	ENTIRE Q16a-g Missing Data
----- --			
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/162

q16d: FAN CNTRL UNOCC: Manually Operated

%	N	VALUE	LABEL
4.3	3	1	Yes
95.7	66	2	No
	2	9	ENTIRE Q16a-g Missing Data
----- --			
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/164

q16e: FAN CNTRL UNOCC: Scheduled Timer

%	N	VALUE	LABEL
18.8	13	1	Yes
81.2	56	2	No
	2	9	ENTIRE Q16a-g Missing Data
----- --			
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/166

q16f: FAN CNTRL UNOCC: Occupancy Sensor

%	N	VALUE	LABEL
0.0	0	1	Yes
100.0	69	2	No
	2	9	ENTIRE Q16a-g Missing Data
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/168

q16g: FAN CNTRL UNOCC: Other

%	N	VALUE	LABEL
2.9	2	1	Yes
97.1	67	2	No
	2	9	ENTIRE Q16a-g Missing Data
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/170

INDOOR VENTILATION FIXTURES

q17: Number of Air Supply Vents

How many air supply vents are in the entire building?

%	N	VALUE	LABEL
1.9	1	1	
3.8	2	2	
1.9	1	3	
3.8	2	4	
1.9	1	5	
7.7	4	6	
5.8	3	7	
3.8	2	8	
5.8	3	10	
1.9	1	11	
1.9	1	12	
1.9	1	14	
3.8	2	15	
1.9	1	17	
5.8	3	18	
3.8	2	20	
1.9	1	22	
1.9	1	24	
3.8	2	28	
1.9	1	30	
1.9	1	34	
1.9	1	36	
1.9	1	40	
1.9	1	48	
1.9	1	60	
1.9	1	68	
1.9	1	72	
3.8	2	75	
1.9	1	88	
1.9	1	100	
1.9	1	122	
1.9	1	136	
3.8	2	150	
1.9	1	181	
1.9	1	250	
	19	999	Missing Data
-----	--		
100.0	71	cases	

Data type: numeric

Minimum code defined as valid: 1

Missing-data code: 999

Record/columns: 1/172-174

q18: Air Supply Vents in Ceiling

Are there air supply vents in the ceiling?

%	N	VALUE	LABEL
94.2	65	1	Yes
5.8	4	2	No
	2	9	Missing Data
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/176

q19a: Air Supply Vents on Walls

Are there air supply vents on the walls?

%	N	VALUE	LABEL
8.6	6	1	Yes
91.4	64	2	No
	1	9	Missing Data
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/178

Where are the supply vents located on the walls? (Check all that apply)

q19b1: IF WALLS: Upper Half

%	N	VALUE	LABEL
100.0	5	1	Yes
0.0	0	2	No
	1	9	ENTIRE Q19b1-4 Missing Data
	65	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/180

q19b2: IF WALLS: Lower Half

%	N	VALUE	LABEL
20.0	1	1	Yes
80.0	4	2	No
	1	9	ENTIRE Q19b1-4 Missing Data
	65	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/182

q19b3: IF WALLS: In the Middle

%	N	VALUE	LABEL
0.0	0	1	Yes
100.0	5	2	No
	1	9	ENTIRE Q19b1-4 Missing Data
	65	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/184

q19b4: IF WALLS: Multiple Heights

%	N	VALUE	LABEL
0.0	0	1	Yes
100.0	5	2	No
	1	9	ENTIRE Q19b1-4 Missing Data
	65	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/186

q20a: Air Supply Vents on Floor

Are there air supply vents on the floor?

%	N	VALUE	LABEL
1.4	1	1	Yes
98.6	69	2	No
	1	9	Missing Data
----- --			
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/188

q20b: FLOOR TYPE: Fan Coil/Unit Ventilators

What types of air supply vents are in the floor?
 Are there fan coil units or unit ventilators?

%	N	VALUE	LABEL
0.0	0	1	Yes
100.0	1	2	No
0.0	0	3	Don't know
	70	.	(Does not apply)
----- --			
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/190

q21: PRIMARY Type of Air Supply Vent

What kind of air supply vent is the primary type?

%	N	VALUE	LABEL
94.3	66	1	Ceiling diffusers
2.9	2	2	Upper half of wall
0.0	0	3	Lower half of wall
0.0	0	4	Middle of wall
0.0	0	5	Floor registers
2.9	2	6	Fan coil units/unit ventilators
0.0	0	7	Other
	1	99	Missing Data
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99
 Record/columns: 1/192-193

q22: Number of Return Vents

How many return vents are in the entire building space?

%	N	VALUE	LABEL
14.5	8	1	
10.9	6	2	
5.5	3	4	
5.5	3	5	
9.1	5	6	
1.8	1	7	
3.6	2	8	
1.8	1	9	
3.6	2	10	
3.6	2	12	
1.8	1	13	
5.5	3	15	
3.6	2	18	
5.5	3	20	
1.8	1	24	
1.8	1	25	
1.8	1	26	
1.8	1	40	
1.8	1	47	
1.8	1	50	
12.7	7	98	98+
	16	99	Missing Data
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99
 Record/columns: 1/195-196

q23: PRIMARY Type of Return Vent

What kind of return vent is the primary vent type?

%	N	VALUE	LABEL
98.3	58	1	Ceiling grille
1.7	1	2	High sidewall grille
0.0	0	3	Low sidewall grille
0.0	0	4	Floor grille
0.0	0	5	Other
	4	9	Missing Data
	8	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/199

HVAC SYSTEM DESCRIPTION - OUTDOOR AIR INTAKE CONTROL

q24: Outdoor Air Control Strategy

What is the outdoor air control strategy for the air handling unit(s) serving the majority of occupants in the space?

%	N	VALUE	LABEL
24.0	12	1	100% outdoor air intake
30.0	15	2	Fixed minimum outdoor air intake
30.0	15	3	Economizer cycle
14.0	7	4	Enthalpy economizer cycle
2.0	1	5	Something else
	21	99	Missing Data
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99
 Record/columns: 1/201-202

q25: Maintaining Minimum Outdoor Air Flow

What is the method used by the air handling unit in maintaining a minimum outdoor air flow rate?

%	N	VALUE	LABEL
67.4	29	1	Fixed damper position
2.3	1	2	Supply/return fan tracking
7.0	3	3	Intake airflow monitoring
18.6	8	4	Demand Controlled Ventilation
4.7	2	5	Something else
	28	99	Missing Data
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99
 Record/columns: 1/204-205

q26: Minimum Outdoor Air Setting (Pct)

What is the minimum outdoor air setting (in percent)?

%	N	VALUE	LABEL
8.7	2	5	
4.3	1	8	
13.0	3	10	
34.8	8	15	
21.7	5	20	
8.7	2	25	
4.3	1	28	
4.3	1	50	
	48	999	Missing Data
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 999
 Record/columns: 1/207-209

AIR HANDLING UNIT SPECIFICATIONS

What is the make and model number of the 3 ventilation units that have the greatest airflow capacity?

q27x: Number of Ventilation Units

%	N	VALUE	LABEL
10.3	3	1	
17.2	5	2	
72.4	21	3	
	41	0	DNA
	1	9	Missing Data
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/211

EXHAUST FAN SPECIFICATIONS

q28a: EXHAUST FAN #1: Airflow Rate CFM

How many exhaust fans, if any, operate in the space?

%	N	VALUE	LABEL
47.9	34	0	None
16.9	12	1	
11.3	8	2	
2.8	2	3	
9.9	7	4	
4.2	3	5	
1.4	1	6	
1.4	1	7	
2.8	2	10	
1.4	1	25	
----- --			
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 0

Missing-data code: 99
 Record/columns: 1/213-214

We would like to ask you a couple of questions about up to five of those exhaust fans. For each fan, please indicate the airflow rate, in cubic feet per minute, of the exhaust fan; the area, in square feet served by the fan, the control method for each exhaust fan (manual, time of day, temperature, pressure, or something else), and whether or not makeup air is supplied?

(NOTE: Use a separate column for each exhaust fan. Answers should be given about the highest flow rate exhaust fans.)

q28a1: EXHAUST FAN #1: Airflow Rate CFM

%	N	VALUE	LABEL
33.3	3	200	
11.1	1	350	
11.1	1	365	
11.1	1	900	
11.1	1	1413	
11.1	1	1950	
11.1	1	3044	
	28	99999	Missing Data
	34	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99999
 Record/columns: 1/216-220

q28b1: EXHAUST FAN #1: Area (Square Feet)

%	N	VALUE	LABEL
7.1	1	25	
7.1	1	48	
7.1	1	87	
7.1	1	135	
14.3	2	200	
7.1	1	275	
14.3	2	400	
7.1	1	600	
7.1	1	1600	
14.3	2	2000	
7.1	1	20400	
	23	99999	Missing Data
	34	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99999
 Record/columns: 1/222-226

q28c1: EXHAUST FAN #1: Manual Control

%	N	VALUE	LABEL
47.4	9	1	Yes
52.6	10	2	No
	18	9	Missing Data
	34	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/228

q28d1: EXHAUST FAN #1: Time of Day Control

%	N	VALUE	LABEL
38.9	7	1	Yes
61.1	11	2	No
	19	9	Missing Data
	34	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/230

q28e1: EXHAUST FAN #1: Temperature Control

%	N	VALUE	LABEL
11.1	2	1	Yes
88.9	16	2	No
	19	9	Missing Data
	34	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/232

q28f1: EXHAUST FAN #1: Pressure

%	N	VALUE	LABEL
0.0	0	1	Yes
100.0	18	2	No
	19	9	Missing Data
	34	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/234

q28g1: EXHAUST FAN #1: Other Control

%	N	VALUE	LABEL
5.0	1	1	Yes
95.0	19	2	No
	17	9	Missing Data
	34	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/236

q28h1: EXHAUST FAN #1: Makeup Air Supplied

%	N	VALUE	LABEL
45.0	9	1	Yes
55.0	11	2	No
	17	9	Missing Data
	34	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/238

q28a2: EXHAUST FAN #2: Airflow Rate CFM

%	N	VALUE	LABEL
28.6	2	200	
14.3	1	850	
14.3	1	900	
14.3	1	1413	
14.3	1	1950	
14.3	1	2245	
	18	99999	Missing Data
	46	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99999
 Record/columns: 1/240-244

q28b2: EXHAUST FAN #2: Area (Square Feet)

%	N	VALUE	LABEL
10.0	1	25	
10.0	1	48	
10.0	1	144	
10.0	1	350	
20.0	2	400	
10.0	1	440	
10.0	1	500	
10.0	1	2000	
10.0	1	20400	
	15	99999	Missing Data
	46	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99999
 Record/columns: 1/246-250

q28c2: EXHAUST FAN #2: Manual Control

%	N	VALUE	LABEL
58.3	7	1	Yes
41.7	5	2	No
	13	9	Missing Data
	46	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/252

q28d2: EXHAUST FAN #2: Time of Day Control

%	N	VALUE	LABEL
27.3	3	1	Yes
72.7	8	2	No
	14	9	Missing Data
	46	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/254

q28e2: EXHAUST FAN #2: Temperature Control

%	N	VALUE	LABEL
8.3	1	1	Yes
91.7	11	2	No
	13	9	Missing Data
	46	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/256

q28f2: EXHAUST FAN #2: Pressure

%	N	VALUE	LABEL
8.3	1	1	Yes
91.7	11	2	No
	13	9	Missing Data
	46	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/258

q28g2: EXHAUST FAN #2: Other Control

%	N	VALUE	LABEL
14.3	2	1	Yes
85.7	12	2	No
	11	9	Missing Data
	46	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/260

q28h2: EXHAUST FAN #2: Makeup Air Supplied

%	N	VALUE	LABEL
50.0	7	1	Yes
50.0	7	2	No
	11	9	Missing Data
	46	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/262

q28a3: EXHAUST FAN #3: Airflow Rate CFM

%	N	VALUE	LABEL
33.3	2	200	
16.7	1	1400	
16.7	1	1401	
16.7	1	1413	
16.7	1	4000	
	11	99999	Missing Data
	54	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99999
 Record/columns: 1/264-268

q28b3: EXHAUST FAN #3: Area (Square Feet)

%	N	VALUE	LABEL
14.3	1	16	
14.3	1	25	
14.3	1	40	
14.3	1	275	
14.3	1	400	
14.3	1	1000	
14.3	1	2000	
	10	99999	Missing Data
	54	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99999
 Record/columns: 1/270-274

q28c3: EXHAUST FAN #3: Manual Control

%	N	VALUE	LABEL
55.6	5	1	Yes
44.4	4	2	No
	8	9	Missing Data
	54	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/276

q28d3: EXHAUST FAN #3: Time of Day Control

%	N	VALUE	LABEL
50.0	4	1	Yes
50.0	4	2	No
	9	9	Missing Data
	54	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/278

q28e3: EXHAUST FAN #3: Temperature Control

%	N	VALUE	LABEL
0.0	0	1	Yes
100.0	9	2	No
	8	9	Missing Data
	54	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/280

q28f3: EXHAUST FAN #3: Pressure

%	N	VALUE	LABEL
0.0	0	1	Yes
100.0	9	2	No
	8	9	Missing Data
	54	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/282

q28g3: EXHAUST FAN #3: Other Control

%	N	VALUE	LABEL
18.2	2	1	Yes
81.8	9	2	No
	6	9	Missing Data
	54	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/284

q28h3: EXHAUST FAN #3: Makeup Air Supplied

%	N	VALUE	LABEL
63.6	7	1	Yes
36.4	4	2	No
	6	9	Missing Data
	54	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/286

q28a4: EXHAUST FAN #4: Airflow Rate CFM

%	N	VALUE	LABEL
50.0	2	200	
25.0	1	1401	
25.0	1	1413	
	11	99999	Missing Data
	56	.	(Does not apply)

----- --
 100.0 71 cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99999
 Record/columns: 1/288-292

q28b4: EXHAUST FAN #4: Area (Square Feet)

%	N	VALUE	LABEL
20.0	1	25	
20.0	1	60	
20.0	1	225	
20.0	1	400	
20.0	1	2000	
	10	99999	Missing Data
	56	.	(Does not apply)

----- --
 100.0 71 cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99999
 Record/columns: 1/294-298

q28c4: EXHAUST FAN #4: Manual Control

%	N	VALUE	LABEL
57.1	4	1	Yes
42.9	3	2	No
	8	9	Missing Data
	56	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/300

q28d4: EXHAUST FAN #4: Time of Day Control

%	N	VALUE	LABEL
50.0	3	1	Yes
50.0	3	2	No
	9	9	Missing Data
	56	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/302

q28e4: EXHAUST FAN #4: Temperature Control

%	N	VALUE	LABEL
0.0	0	1	Yes
100.0	7	2	No
	8	9	Missing Data
	56	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/304

q28f4: EXHAUST FAN #4: Pressure

%	N	VALUE	LABEL
0.0	0	1	Yes
100.0	7	2	No
	8	9	Missing Data
	56	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/306

q28g4: EXHAUST FAN #4: Other Control

%	N	VALUE	LABEL
22.2	2	1	Yes
77.8	7	2	No
	6	9	Missing Data
	56	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/308

q28h4: EXHAUST FAN #4: Makeup Air Supplied

%	N	VALUE	LABEL
55.6	5	1	Yes
44.4	4	2	No
	6	9	Missing Data
	56	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/310

q28a5: EXHAUST FAN #5: Airflow Rate CFM

%	N	VALUE	LABEL
100.0	1	2629	
	7	99999	Missing Data
	63	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99999
 Record/columns: 1/312-316

q28b5: EXHAUST FAN #5: Area (Square Feet)

%	N	VALUE	LABEL
33.3	1	16	
33.3	1	25	
33.3	1	2000	
	5	99999	Missing Data
	63	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99999
 Record/columns: 1/318-322

q28c5: EXHAUST FAN #5: Manual Control

%	N	VALUE	LABEL
100.0	4	1	Yes
0.0	0	2	No
	4	9	Missing Data
	63	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/324

q28d5: EXHAUST FAN #5: Time of Day Control

%	N	VALUE	LABEL
0.0	0	1	Yes
100.0	3	2	No
	5	9	Missing Data
	63	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/326

q28e5: EXHAUST FAN #5: Temperature Control

%	N	VALUE	LABEL
0.0	0	1	Yes
100.0	4	2	No
	4	9	Missing Data
	63	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/328

q28f5: EXHAUST FAN #5: Pressure

%	N	VALUE	LABEL
0.0	0	1	Yes
100.0	4	2	No
	4	9	Missing Data
	63	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/330

q28g5: EXHAUST FAN #5: Other Control

%	N	VALUE	LABEL
0.0	0	1	Yes
100.0	4	2	No
	4	9	Missing Data
	63	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/332

q28h5: EXHAUST FAN #5: Makeup Air Supplied

%	N	VALUE	LABEL
75.0	3	1	Yes
25.0	1	2	No
	4	9	Missing Data
	63	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/334

FILTRATION AND AIR CLEANING SYSTEMS

q29: Number of Package Rooftop HVAC Units

How many package rooftop HVAC units are there for this building?

%	N	VALUE	LABEL
11.8	8	0	None
20.6	14	1	
8.8	6	2	
8.8	6	3	
10.3	7	4	
7.4	5	5	
7.4	5	6	
4.4	3	7	
1.5	1	9	
2.9	2	10	
1.5	1	11	
1.5	1	13	
1.5	1	16	
1.5	1	17	
2.9	2	18	
1.5	1	19	
1.5	1	22	
1.5	1	26	
1.5	1	29	
1.5	1	35	
-----	3	99	Missing Data
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 0
 Missing-data code: 99
 Record/columns: 1/336-337

ROOFTOP UNIT #1

For, at most, three of the largest package rooftop units, we would like to know about the filtration or air-cleaning device that is installed in each.

q30a: ROOFTOP UNIT #1: Filtration Type

First, thinking about rooftop unit #1, what type of filtration or air cleaning device is installed in the air handling unit?

%	N	VALUE	LABEL
96.6	57	1	Particle filter
0.0	0	2	Electronic air cleaner
1.7	1	3	Gaseous filter
1.7	1	4	Multi-function air cleaning unit
	4	9	Missing Data
	8	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/339

q30x: ROOFTOP UNIT #1: Particle Filter M/M

What is the make and model number of the particle filter?

%	N	VALUE	LABEL
17.7	11	0	DNA
82.3	51	1	Unknown
	9	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 0
 Record/column: 1/341

q30c: ROOFTOP UNIT #1: Device Rating

What is the rating of the filtration or air cleaning device?

%	N	VALUE	LABEL
35.7	5	1	ASHRAE Standard 52 rating
57.1	8	2	DOP efficiency rating
7.1	1	3	
	48	9	Missing Data
	9	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/343

q30c1: ROOFTOP UNIT #1: MERV Rating

IF ASHRAE Standard 52 rating (MERV)

%	N	VALUE	LABEL
66.7	2	8	
33.3	1	12	
	3	99	Missing Data
	65	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99
 Record/columns: 1/345-346

q30c2: ROOFTOP UNIT #1: DOP Efficiency (Pct)

IF DOP efficiency rating (percent)

%	N	VALUE	LABEL
22.2	2	30	
22.2	2	35	
44.4	4	40	
11.1	1	90	
	62	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 999
 Record/columns: 1/348-350

q30d: ROOFTOP UNIT #1: Filter Bank (Sq feet)

What is the total area of the filter bank?
(in square feet)

%	N	VALUE	LABEL
9.5	2	3	
4.8	1	4	
4.8	1	5	
28.6	6	6	
4.8	1	9	
4.8	1	15	
9.5	2	20	
4.8	1	60	
4.8	1	64	
4.8	1	100	
4.8	1	800	
4.8	1	1000	
4.8	1	1020	
4.8	1	1350	
	41	99999	Missing Data
	9	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99999
 Record/columns: 1/352-356

q30e: ROOFTOP UNIT #1: Filter Media

What is the filter media?

%	N	VALUE	LABEL
66.7	24	1	Polyester
27.8	10	2	Fiberglass
0.0	0	3	Carbon
5.6	2	4	Other
	26	9	Missing Data
	9	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/358

q30f: ROOFTOP UNIT #1: Filter Panel or Roll

Is the filter a panel or roll type?

%	N	VALUE	LABEL
100.0	51	1	Panel
0.0	0	2	Roll
	11	9	Missing Data
	9	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/360

q30g: ROOFTOP UNIT #1: Panel Dry or Viscous

Is the panel filter dry or viscous?

%	N	VALUE	LABEL
100.0	50	1	Dry
0.0	0	2	Viscous impingement
	1	9	Missing Data
	20	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/362

Is the dry panel filter a flat panel, pleated, bag, or HEPA?
 (Check all that apply)

q30h1: ROOFTOP UNIT #1: Flat Panel

%	N	VALUE	LABEL
27.7	13	1	Yes
72.3	34	2	No
	3	9	ENTIRE Q30h1-4 Missing Data
	21	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/364

q30h2: ROOFTOP UNIT #1: Pleated Panel

%	N	VALUE	LABEL
70.2	33	1	Yes
29.8	14	2	No
	3	9	ENTIRE Q30h1-4 Missing Data
	21	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/366

q30h3: ROOFTOP UNIT #1: Bag Panel

%	N	VALUE	LABEL
0.0	0	1	Yes
100.0	47	2	No
	3	9	ENTIRE Q30h1-4 Missing Data
	21	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/368

q30h4: ROOFTOP UNIT #1: HEPA Panel

%	N	VALUE	LABEL
6.4	3	1	Yes
93.6	44	2	No
	3	9	ENTIRE Q30h1-4 Missing Data
	21	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/370

q30i: ROOFTOP UNIT #1: Roll Dry or Viscous

Is the roll filter dry or viscous impingement?

%	N	VALUE	LABEL
0.0	0	1	Dry
0.0	0	2	Viscous impingement
	11	9	Missing Data
	60	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/372

q30j: ROOFTOP UNIT #1: Electronic Device

What type of "electronic" filtration device is used?

%	N	VALUE	LABEL
0.0	0	1	Ionizer
0.0	0	2	Electrostatic precipitator
0.0	0	3	Ultraviolet
0.0	0	4	Ozone generator
0.0	0	5	Other
	71	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/374

q30l: ROOFTOP UNIT #1: Filter Bank (Sq feet)

What is the total area of the filter bank?
 (in square feet)

%	N	VALUE	LABEL
	71	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99999
 Record/columns: 1/376-380

q30m: ROOFTOP UNIT #1: Filter Bank (Face area)

What is the total face area of the filter bank?
(in square feet)

%	N	VALUE	LABEL
	1	99999	Missing Data
	70	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
Minimum code defined as valid: 1
Missing-data code: 99999
Record/columns: 1/382-386

q30n: ROOFTOP UNIT #1: Depth of Media Bed

What is the depth of the media bed?
(in square feet)

%	N	VALUE	LABEL
	1	99999	Missing Data
	70	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
Minimum code defined as valid: 1
Missing-data code: 99999
Record/columns: 1/388-392

q30o: ROOFTOP UNIT #1: Media in Air Cleaning

What is the media utilized in the air cleaning?

%	N	VALUE	LABEL
0.0	0	1	Given
100.0	1	2	Not given
	70	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Record/columns: 1/394-395

ROOFTOP UNIT #2

For, at most, three of the largest package rooftop units, we would like to know about the filtration or air-cleaning device that is installed in each.

q31a: ROOFTOP UNIT #2: Filtration Type

Next, thinking about rooftop unit #2, what type of filtration or air cleaning device is installed in the air handling unit?

%	N	VALUE	LABEL
97.4	37	1	Particle filter
2.6	1	2	Electronic air cleaner
0.0	0	3	Gaseous filter
0.0	0	4	Multi-function air cleaning unit
	11	9	Missing Data
	22	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/397

q31x: ROOFTOP UNIT #2: Filtration M/M

What is the make and model number of the filtration or air cleaning device?

%	N	VALUE	LABEL
16.7	8	0	DNA
83.3	40	1	Unknown
	23	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 0
 Record/column: 1/399

q31c: ROOFTOP UNIT #2: Device Rating

What is the rating of the filtration or air cleaning device?

%	N	VALUE	LABEL
38.5	5	1	ASHRAE Standard 52 rating
61.5	8	2	DOP efficiency rating
	35	9	Missing Data
	23	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/401

q31c1: ROOFTOP UNIT #2: MERV Rating

IF ASHRAE Standard 52 rating (MERV)

%	N	VALUE	LABEL
100.0	2	8	
	3	99	Missing Data
	66	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99
 Record/columns: 1/403-404

q31c2: ROOFTOP UNIT #2: DOP Efficiency (Pct)

IF DOP efficiency rating (percent)

%	N	VALUE	LABEL
12.5	1	30	
25.0	2	35	
50.0	4	40	
12.5	1	90	
	63	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 999
 Record/columns: 1/406-408

q31d: ROOFTOP UNIT #2: Filter Bank (Sq feet)

What is the total area of the filter bank?
 (in square feet)

%	N	VALUE	LABEL
5.9	1	3	
5.9	1	4	
35.3	6	6	
5.9	1	9	
5.9	1	15	
11.8	2	20	
5.9	1	23	
5.9	1	60	
5.9	1	64	
5.9	1	100	
5.9	1	1000	
	31	99999	Missing Data
	23	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99999
 Record/columns: 1/410-414

q31e: ROOFTOP UNIT #2: Filter Media

What is the filter media?

%	N	VALUE	LABEL
66.7	20	1	Polyester
30.0	9	2	Fiberglass
0.0	0	3	Carbon
3.3	1	4	Other
	18	9	Missing Data
	23	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/416

q31f: ROOFTOP UNIT #2: Filter Panel or Roll

Is the filter a panel or roll type?

%	N	VALUE	LABEL
100.0	37	1	Panel
0.0	0	2	Roll
	11	9	Missing Data
	23	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/418

q31g: ROOFTOP UNIT #2: Panel Dry or Viscous

Is the panel filter dry or viscous?

%	N	VALUE	LABEL
100.0	37	1	Dry
0.0	0	2	Viscous impingement
	34	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/420

Is the dry panel filter a flat panel, pleated, bag, or HEPA?
 (Check all that apply)

q31h1: ROOFTOP UNIT #2: Flat Panel

%	N	VALUE	LABEL
25.7	9	1	Yes
74.3	26	2	No
	2	9	ENTIRE Q30h1-4 Missing Data
	34	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/422

q31h2: ROOFTOP UNIT #2: Pleated Panel

%	N	VALUE	LABEL
77.1	27	1	Yes
22.9	8	2	No
	2	9	ENTIRE Q30h1-4 Missing Data
	34	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/424

q31h3: ROOFTOP UNIT #2: Bag Panel

%	N	VALUE	LABEL
0.0	0	1	Yes
100.0	35	2	No
	2	9	ENTIRE Q30h1-4 Missing Data
	34	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/426

q31h4: ROOFTOP UNIT #2: HEPA Panel

%	N	VALUE	LABEL
0.0	0	1	Yes
100.0	35	2	No
	2	9	ENTIRE Q30h1-4 Missing Data
	34	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/428

q31i: ROOFTOP UNIT #2: Roll Dry or Viscous

Is the roll filter dry or viscous impingement?

%	N	VALUE	LABEL
0.0	0	1	Dry
0.0	0	2	Viscous impingement
	11	9	Missing Data
	60	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/430

q31j: ROOFTOP UNIT #2: Electronic Device

What type of "electronic" filtration device is used?

%	N	VALUE	LABEL
0.0	0	1	Ionizer
100.0	1	2	Electrostatic precipitator
0.0	0	3	Ultraviolet
0.0	0	4	Ozone generator
0.0	0	5	Other
	70	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/432

q31l: ROOFTOP UNIT #2: Filter Bank (Sq feet)

What is the total area of the filter bank?
 (in square feet)

%	N	VALUE	LABEL
	1	99999	Missing Data
	70	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99999
 Record/columns: 1/434-438

q31m: ROOFTOP UNIT #2: Filter Bank (Face area)

What is the total face area of the filter bank?
(in square feet)

%	N	VALUE	LABEL
	71	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
Minimum code defined as valid: 1
Missing-data code: 99999
Record/columns: 1/440-444

q31n: ROOFTOP UNIT #2: Depth of Media Bed

What is the depth of the media bed?
(in square feet)

%	N	VALUE	LABEL
	71	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
Minimum code defined as valid: 1
Missing-data code: 99999
Record/columns: 1/446-450

q31o: ROOFTOP UNIT #2: Media in Air Cleaning

What is the media utilized in the air cleaning?

%	N	VALUE	LABEL
0.0	0	1	Given
0.0	0	2	Not given
	71	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Record/columns: 1/452-453

ROOFTOP UNIT #3

For, at most, three of the largest package rooftop units, we would like to know about the filtration or air-cleaning device that is installed in each.

q32a: ROOFTOP UNIT #3: Filtration Type

Next, thinking about rooftop unit #3, what type of filtration or air cleaning device is installed in the air handling unit?

%	N	VALUE	LABEL
97.0	32	1	Particle filter
3.0	1	2	Electronic air cleaner
0.0	0	3	Gaseous filter
0.0	0	4	Multi-function air cleaning unit
	10	9	Missing Data
	28	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/455

q32x: ROOFTOP UNIT #3: Filtration M/M

What is the make and model number of the filtration or air cleaning device?

%	N	VALUE	LABEL
16.7	7	0	DNA
83.3	35	1	Unknown
	29	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 0
 Record/column: 1/457

q32c: ROOFTOP UNIT #3: Device Rating

What is the rating of the filtration or air cleaning device?

%	N	VALUE	LABEL
30.0	3	1	ASHRAE Standard 52 rating
70.0	7	2	DOP efficiency rating
	32	9	Missing Data
	29	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/459

q32c1: ROOFTOP UNIT #3: MERV Rating

IF ASHRAE Standard 52 rating (MERV)

%	N	VALUE	LABEL
100.0	1	8	
	2	99	Missing Data
	68	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99
 Record/columns: 1/461-462

q32c2: ROOFTOP UNIT #3: DOP Efficiency (Pct)

IF DOP efficiency rating (percent)

%	N	VALUE	LABEL
28.6	2	35	
57.1	4	40	
14.3	1	90	
	64	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 999
 Record/columns: 1/464-466

q32d: ROOFTOP UNIT #3: Filter Bank (Sq feet)

What is the total area of the filter bank?
 (in square feet)

%	N	VALUE	LABEL
7.1	1	3	
7.1	1	4	
35.7	5	6	
7.1	1	9	
7.1	1	15	
14.3	2	20	
7.1	1	60	
7.1	1	67	
7.1	1	1000	
	28	99999	Missing Data
	29	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99999
 Record/columns: 1/468-472

q32e: ROOFTOP UNIT #3: Filter Media

What is the filter media?

%	N	VALUE	LABEL
61.5	16	1	Polyester
34.6	9	2	Fiberglass
0.0	0	3	Carbon
3.8	1	4	Other
	16	9	Missing Data
	29	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/474

q32f: ROOFTOP UNIT #3: Filter Panel or Roll

Is the filter a panel or roll type?

%	N	VALUE	LABEL
100.0	32	1	Panel
0.0	0	2	Roll
	10	9	Missing Data
	29	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/476

q32g: ROOFTOP UNIT #3: Panel Dry or Viscous

Is the panel filter dry or viscous?

%	N	VALUE	LABEL
100.0	32	1	Dry
0.0	0	2	Viscous impingement
	39	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/478

Is the dry panel filter a flat panel, pleated, bag, or HEPA?
 (Check all that apply)

q32h1: ROOFTOP UNIT #3: Flat Panel

%	N	VALUE	LABEL
31.0	9	1	Yes
69.0	20	2	No
	3	9	ENTIRE Q30h1-4 Missing Data
	39	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/480

q32h2: ROOFTOP UNIT #3: Pleated Panel

%	N	VALUE	LABEL
72.4	21	1	Yes
27.6	8	2	No
	3	9	ENTIRE Q30h1-4 Missing Data
	39	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/482

q32h3: ROOFTOP UNIT #3: Bag Panel

%	N	VALUE	LABEL
0.0	0	1	Yes
100.0	29	2	No
	3	9	ENTIRE Q30h1-4 Missing Data
	39	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/484

q32h4: ROOFTOP UNIT #3: HEPA Panel

%	N	VALUE	LABEL
0.0	0	1	Yes
100.0	29	2	No
	3	9	ENTIRE Q30h1-4 Missing Data
	39	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/486

q32i: ROOFTOP UNIT #3: Roll Dry or Viscous

Is the roll filter dry or viscous impingement?

%	N	VALUE	LABEL
0.0	0	1	Dry
0.0	0	2	Viscous impingement
	10	9	Missing Data
	61	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/488

q32j: ROOFTOP UNIT #3: Electronic Device

What type of "electronic" filtration device is used?

%	N	VALUE	LABEL
0.0	0	1	Ionizer
0.0	0	2	Electrostatic precipitator
100.0	1	3	Ultraviolet
0.0	0	4	Ozone generator
0.0	0	5	Other
	70	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/490

q32i: ROOFTOP UNIT #3: Filter Bank (Sq feet)

What is the total area of the filter bank?
 (in square feet)

%	N	VALUE	LABEL
	1	99999	Missing Data
	70	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99999
 Record/columns: 1/492-496

q32m: ROOFTOP UNIT #3: Filter Bank (Face area)

What is the total face area of the filter bank?
(in square feet)

%	N	VALUE	LABEL
	71	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
Minimum code defined as valid: 1
Missing-data code: 99999
Record/columns: 1/498-502

q32n: ROOFTOP UNIT #3: Depth of Media Bed

What is the depth of the media bed?
(in square feet)

%	N	VALUE	LABEL
	71	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
Minimum code defined as valid: 1
Missing-data code: 99999
Record/columns: 1/504-508

q32o: ROOFTOP UNIT #3: Media in Air Cleaning

What is the media utilized in the air cleaning?

%	N	VALUE	LABEL
0.0	0	1	Given
0.0	0	2	Not given
	71	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Record/columns: 1/510-511

AIR WASHERS

q33: ROOFTOP UNIT: Air Washer System

Is there an air washer system in the package rooftop unit?

%	N	VALUE	LABEL
0.0	0	1	Yes
100.0	46	2	No
	25	9	Missing Data
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/513

HUMIDIFICATION SYSTEMS

q34: ROOFTOP UNIT: Humidification System

(Is the package rooftop unit/Are any of the package rooftop units) equipped with a humidification system?

%	N	VALUE	LABEL
2.1	1	1	Yes
97.9	47	2	No
	23	9	Missing Data
-----	--		
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/515

AIR HANDLER INSPECTIONS

q35a: ROOFTOP UNITS: Reg Inspection Schedule

(Is the package rooftop unit/Are the package rooftop units) inspected on a regular schedule, have they been inspected but not on a regular basis, or have they not been inspected?

%	N	VALUE	LABEL
83.3	45	1	Yes, inspected on a regular schedule
14.8	8	2	Inspected, but not on regular basis
1.9	1	3	Not inspected
	17	9	Missing Data
 ----- --			
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/517

q35b: ROOFTOP UNITS: Freq of Inspections

(ROOFTOP UNITS)
 What is the frequency of inspections?
 (Answer in months between inspections)

%	N	VALUE	LABEL
11.9	5	1	
7.1	3	2	
52.4	22	3	
4.8	2	4	
16.7	7	6	
7.1	3	12	
	3	99	Missing Data
	26	.	(Does not apply)
 ----- --			
100.0	71	cases	

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99
 Record/columns: 1/519-520

INSTRUCTION BOX: Answer Q36 only if use particulate filters. Otherwise, please skip to next instruction box on page 16.

q36x: INSTRUCTION BOX: Use Particulate Filters

INSTRUCTION BOX: Answer Q36 only if use particulate filters. Otherwise, please skip to next instruction box.

%	N	VALUE	LABEL
18.3	13	0	DNA-Skip Q36
81.7	58	1	Ask Q36
-----	--		
100.0	71		cases

Data type: numeric

Minimum code defined as valid: 0
Record/column: 1/522

q36a: Replace Particulate Filter Regularly

(Is the particulate filter/Are the particulate filters)
replaced on a regular schedule, have they been replaced
but not on a regular basis, or have they not been replaced?

%	N	VALUE	LABEL
85.7	42	1	Yes, replaced on a regular schedule
14.3	7	2	Replaced, but not on regular basis
0.0	0	3	Not replaced
	9	9	Missing Data
	13	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
Minimum code defined as valid: 1
Missing-data code: 9
Record/column: 1/524

q36b: PARTICULATE FILTER: Freq of Replacement

(PARTICULATE FILTER)

What is the frequency of replacement?

(Answer in months between replacement)

%	N	VALUE	LABEL
12.8	5	1	
10.3	4	2	
53.8	21	3	
2.6	1	4	
2.6	1	5	
12.8	5	6	
5.1	2	12	
	3	99	Missing Data
	29	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric

Minimum code defined as valid: 1

Missing-data code: 99

Record/columns: 1/526-527

*INSTRUCTION BOX: Answer Q37 only if use electronic filters. Otherwise, please go to Q39 below. *(Revised SKIP PATTERN instruction -Feb 2009)

q37x: INSTRUCTION BOX: Have Electronic Filters

INSTRUCTION BOX: Answer Q37 only if have electronic filters. Otherwise, please skip to Q39A.

%	N	VALUE	LABEL
98.6	70	0	DNA-Skip Q37
1.4	1	1	Ask Q37
-----	--		
100.0	71	cases	

Data type: numeric

Minimum code defined as valid: 0

Record/column: 1/529

q37a: Electronic Filter Inspected Regularly

(Is the electronic filter/Are the electronic filters) inspected on a regular schedule, have they been inspected but not on a regular basis, or have they not been inspected?

%	N	VALUE	LABEL
100.0	1	1	Yes, inspected on a regular schedule
0.0	0	2	Inspected, but not on regular basis
0.0	0	3	Not inspected
	70	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/531

q37b: ELECTRONIC FILTERS: Freq of Inspections

(ELECTRONIC FILTERS)
 What is the frequency of inspections?
 (Answer in months between inspections)

%	N	VALUE	LABEL
100.0	1	1	
	70	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99
 Record/columns: 1/533-534

q38a: Electronic Filter Cleaned Regularly

(Is the electronic filter/Are the electronic filters) cleaned on a regular schedule, have they been cleaned but not on a regular basis, or have they not been cleaned?

%	N	VALUE	LABEL
100.0	1	1	Yes, cleaned on a regular schedule
0.0	0	2	Cleaned, but not on regular basis
0.0	0	3	Not cleaned
	70	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/536

q38b: ELECTRONIC FILTERS: Freq of Cleanings

(ELECTRONIC FILTERS)
 What is the frequency of cleanings?
 (Answer in months between cleanings)

%	N	VALUE	LABEL
100.0	1	3	
	70	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99
 Record/columns: 1/538-539

q39a: Cooling/Heating Coils Inspected Regularly

Are the heating and cooling coils inspected on a regular schedule, have they been inspected but not on a regular basis, or have they not been inspected?

%	N	VALUE	LABEL
83.3	25	1	Yes, inspected on a regular schedule
6.7	2	2	Inspected, but not on regular basis
10.0	3	3	Not inspected
	41	9	Missing Data
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/541

q39b: COILS: Frequency of Inspections

(HEATING AND COOLING COILS)
 What is the frequency of inspections?
 (Answer in months between inspections)

%	N	VALUE	LABEL
9.5	2	1	
14.3	3	2	
57.1	12	3	
14.3	3	4	
4.8	1	12	
	4	99	Missing Data
	46	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99
 Record/columns: 1/543-544

q40a: Cooling/Heating Coils Cleaned Regularly

Are the heating and cooling coils cleaned on a regular schedule, have they been cleaned but not on a regular basis, or have they not been cleaned?

%	N	VALUE	LABEL
71.9	23	1	Yes, cleaned on a regular schedule
18.8	6	2	Cleaned, but not on regular basis
9.4	3	3	Not cleaned
	39	9	Missing Data
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/546

q40b: COILS: Freq of Cleanings

(HEATING AND COOLING COILS)

What is the frequency of cleanings?

(Answer in months between cleanings)

%	N	VALUE	LABEL
9.1	2	1	
9.1	2	2	
27.3	6	3	
9.1	2	4	
13.6	3	6	
31.8	7	12	
	1	99	Missing Data
	48	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99
 Record/columns: 1/548-549

q41a: Drain Pans Inspected Regularly

Are the drain pans inspected on a regular schedule, have they been inspected but not on a regular basis, or have they not been inspected?

%	N	VALUE	LABEL
81.2	26	1	Yes, inspected on a regular schedule
9.4	3	2	Inspected, but not on regular basis
9.4	3	3	Not inspected
	39	9	Missing Data
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/551

q41b: DRAIN PANS: Freq of Inspections

(DRAIN PANS)

What is the frequency of inspections?

(Answer in months between inspections)

%	N	VALUE	LABEL
12.0	3	1	
12.0	3	2	
52.0	13	3	
8.0	2	4	
8.0	2	6	
8.0	2	12	
	1	99	Missing Data
	45	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99
 Record/columns: 1/553-554

q42a: Drain Pans Cleaned Regularly

Are the drain pans cleaned on a regular schedule, have they been cleaned but not on a regular basis, or have they not been cleaned?

%	N	VALUE	LABEL
14.3	1	1	Yes, cleaned on a regular schedule
42.9	3	2	Cleaned, but not on regular basis
42.9	3	3	Not cleaned
	38	9	Missing Data
	26	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/556

q42b: DRAIN PANS: Freq of Cleanings

(DRAIN PANS)

What is the frequency of cleanings?

(Answer in months between cleanings)

%	N	VALUE	LABEL
	1	99	Missing Data
	70	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99
 Record/columns: 1/558-559

q43: Frequency of Drain Line Test

How often is the drain line tested?
(Answer in months between inspection)

%	N	VALUE	LABEL
15.8	3	1	
10.5	2	2	
26.3	5	3	
5.3	1	4	
15.8	3	6	
21.1	4	12	
5.3	1	13	
	11	99	Missing Data
	41	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric
Minimum code defined as valid: 1
Missing-data code: 99
Record/columns: 1/561-562

q44a: Ductwork Inspected Regularly

Is the ductwork inspected on a regular schedule, has it been inspected but not on a regular basis, or has it not been inspected?

%	N	VALUE	LABEL
18.4	7	1	Yes, inspected on a regular schedule
42.1	16	2	Inspected, but not on regular basis
39.5	15	3	Not inspected
	33	9	Missing Data
-----	--		
100.0	71	cases	

Data type: numeric
Minimum code defined as valid: 1
Missing-data code: 9
Record/column: 1/564

q44b: DUCTWORK: Freq of Inspections

(DUCTWORK)

What is the frequency of inspections?

(Answer in months between inspections)

%	N	VALUE	LABEL
16.7	1	1	
33.3	2	3	
16.7	1	4	
16.7	1	6	
16.7	1	12	
	1	99	Missing Data
	64	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric

Minimum code defined as valid: 1

Missing-data code: 99

Record/columns: 1/566-567

q45a: Ductwork Cleaned Regularly

Has the ductwork been cleaned on a regular schedule, has it been cleaned but not on a regular basis, or has it not been cleaned?

%	N	VALUE	LABEL
10.8	4	1	Yes, cleaned on a regular schedule
21.6	8	2	Cleaned, but not on regular basis
67.6	25	3	Not cleaned
	34	9	Missing Data
-----	--		
100.0	71	cases	

Data type: numeric

Minimum code defined as valid: 1

Missing-data code: 9

Record/column: 1/569

q45b: DUCTWORK: Freq of Cleanings

(DUCTWORK)

What is the frequency of cleanings?

(Answer in months between cleanings)

%	N	VALUE	LABEL
33.3	1	3	
33.3	1	4	
33.3	1	24	
	1	99	Missing Data
	67	.	(Does not apply)
-----	--		
100.0	71	cases	

Data type: numeric

Minimum code defined as valid: 1

Missing-data code: 99

Record/columns: 1/571-572

TESTING AND BALANCING

q46a: Rooftop Units Tested & Balanced

(Is the package rooftop unit/Are the package rooftop units) tested and balanced on a regular schedule, have they been tested and balanced but not on a regular basis, or have they not been tested and balanced?

%	N	VALUE	LABEL
17.9	10	1	Yes, tested & balanced
41.1	23	2	Yes, but not regularly
41.1	23	3	Not tested & balanced
	15	9	Missing Data
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 9
 Record/column: 1/574

q46b: ROOFTOP UNIT: Freq of Testing/Balancing

(ROOFTOP UNIT)
 What is the frequency of testing and balancing?
 (Answer in months between testings and balancings)

%	N	VALUE	LABEL
37.5	3	3	
12.5	1	4	
12.5	1	6	
37.5	3	12	
	2	99	Missing Data
	61	.	(Does not apply)
-----	--		
100.0	71		cases

Data type: numeric
 Minimum code defined as valid: 1
 Missing-data code: 99
 Record/columns: 1/576-577

MAKE AND MODEL

q27a_mak: AIRFLOW CAPACITY: Unit 1 Make

(var is a 20-character string)

%	N	VALUE	LABEL
2.8	2	AAON	
1.4	1	ARCO Aire	
1.4	1	BDP/Carrier	
1.4	1	Bryant	
11.3	8	Carrier	
1.4	1	Janitorioh	
1.4	1	Payne	
2.8	2	Rheem	
1.4	1	Train	
14.1	10	Trane	
2.8	2	York	
57.7	41		
-----	--		
100.0	71	cases	

Data type: character
Record/columns: 1/579-598

q27a_mod: AIRFLOW CAPACITY: Unit 1 Model

(var is a 30-character string)

%	N	VALUE	LABEL
1.4	1	10ton Heat Pump	
1.4	1	12.5 Ton	
1.4	1	15ton	
1.4	1	2.5 ton heat pump unit	
1.4	1	3-M-A60-10	
1.4	1	30 Ton Intellipak	
1.4	1	48GS	
1.4	1	48HJ004	
1.4	1	48HJD005-007	
1.4	1	48HJD060	
1.4	1	48HJE004...541	
1.4	1	505 JP 060 100	
1.4	1	585CP060125C	
1.4	1	604ANX303600AA	
1.4	1	7ton	
1.4	1	D360060NO8225B	
1.4	1	Intellipak	
1.4	1	RJKA-A060	
2.8	2	RK15300	
1.4	1	RKKA-A048-CKIOE	
1.4	1	XBOX40	
1.4	1	YC0180B3LADE	
1.4	1	YCD300B4L06A	
1.4	1	YOD150B3LODA	
7.0	5	missing	
57.7	41		
-----	--		
100.0	71	cases	

Data type: character
Record/columns: 1/600-629

q27b_mak: AIRFLOW CAPACITY: Unit 2 Make

(var is a 20-character string)

%	N	VALUE	LABEL
2.8	2	AAON	
1.4	1	BDP/Carrier	
14.1	10	Carrier	
1.4	1	Janitorioh	
1.4	1	Payne	
1.4	1	Rheem	
1.4	1	Train	
9.9	7	Trane	
4.2	3	York	
62.0	44		
-----	--		
100.0	71	cases	

Data type: character
Record/columns: 1/631-650

q27b_mod: AIRFLOW CAPACITY: Unit 2 Model

(var is a 30-character string)

%	N	VALUE	LABEL
1.4	1	10ton Heat Pump	
1.4	1	12.5 Ton	
1.4	1	12ton	
1.4	1	2.5 ton heat pump unit	
1.4	1	3-M-A60-10	
1.4	1	3307G4412	
1.4	1	48GS	
1.4	1	48HJ004	
1.4	1	48HJD080	
1.4	1	48HJE-HJF004-007	
1.4	1	48HJE006...541	
1.4	1	48SDNO24040301--	
1.4	1	505 JP 060 100	
1.4	1	585CP060125C	
1.4	1	5ton	
1.4	1	B1HA-060A-06B	
1.4	1	DIHGD60NO7925BOB	
1.4	1	RJKA-A048	
1.4	1	RK-10	
1.4	1	RK10	
1.4	1	XBOX40	
1.4	1	YCD048C1LEBE	
1.4	1	YCH301C3LOCA	
5.6	4	missing	
62.0	44		
-----	--		
100.0	71	cases	

Data type: character
Record/columns: 1/652-681

q27c_mak: AIRFLOW CAPACITY: Unit 3 Make

(var is a 20-character string)

%	N	VALUE	LABEL
2.8	2	AAON	
1.4	1	BDP/Carrier	
12.7	9	Carrier	
1.4	1	Janitorioh	
1.4	1	Rheem	
1.4	1	Train	
4.2	3	Trane	
5.6	4	York	
69.0	49		
-----	--		
100.0	71	cases	

Data type: character
Record/columns: 1/683-702

q27c_mod: AIRFLOW CAPACITY: Unit 3 Model

(var is a 30-character string)

%	N	VALUE	LABEL
1.4	1	10ton	
1.4	1	10ton Heat Pump	
1.4	1	2.5 ton heat pump unit	
1.4	1	26BO36525A	
1.4	1	3-M-A60-10	
1.4	1	40HJ024	
1.4	1	48GS	
1.4	1	48HJD009-551	
1.4	1	48HJD080	
1.4	1	48SDN024040301	
1.4	1	585CP060125C	
1.4	1	5ton	
1.4	1	8.5 Ton	
1.4	1	B1HA-060-A25B	
1.4	1	DINH048N0625C	
1.4	1	RJKA-A048	
1.4	1	RK-10	
1.4	1	RK10	
1.4	1	YCD036C1LOBE	
4.2	3	missing	
69.0	49		
-----	--		
100.0	71	cases	

Data type: character
Record/columns: 1/704-733

q30b_mak: ROOFTOP UNIT #1: Particle Filter Make

(var is a 20-character string)

%	N	VALUE	LABEL
1.4	1	AAF International	
1.4	1	Aeroplant	
1.4	1	Ecoaire	
2.8	2	Econo Filter	
1.4	1	Flanders	
1.4	1	Glass Floss	
1.4	1	Perfect Pleat	
1.4	1	Purcolator	
1.4	1	Purilator	
1.4	1	Tri Dib Filter	
84.5	60		
-----	--		
100.0	71	cases	

Data type: character
Record/columns: 1/735-754

q30b_mod: ROOFTOP UNIT #1: Particle Filter Model

(var is a 30-character string)

%	N	VALUE	LABEL
1.4	1	16"x25"x2 Class E	
1.4	1	All 2" HI-5	
1.4	1	E-35	
1.4	1	HI-E	
1.4	1	HIE60	
1.4	1	Model 40	
1.4	1	Tri DEK 3 ply 15/40	
1.4	1	ZL	
4.2	3	missing	
84.5	60		
-----	--		
100.0	71	cases	

Data type: character
Record/columns: 1/756-785

q30k_mak: ROOFTOP UNIT #1: Electronic Filter Make

(var is a 20-character string)

%	N	VALUE	LABEL
100.0	71		
-----	--		
100.0	71	cases	

Data type: character
Record/columns: 1/787-806

q30k_mod: ROOFTOP UNIT #1: Electronic Filter Model

(var is a 30-character string)

%	N	VALUE	LABEL
100.0	71		
-----	--		
100.0	71	cases	

Data type: character
Record/columns: 1/808-837

q31b_mak: ROOFTOP UNIT #2: Filter/Cleaning Make

(var is a 20-character string)

%	N	VALUE	LABEL
1.4	1	Aeroplant	
1.4	1	Ecoaire	
2.8	2	Econo Filter	
1.4	1	Flanders	
1.4	1	Glass Floss	
1.4	1	Perfect Pleat	
1.4	1	Purcolator	
88.7	63		
-----	--		
100.0	71	cases	

Data type: character
Record/columns: 1/839-858

q31b_mod: ROOFTOP UNIT #2: Filter/Cleaning Model

(var is a 30-character string)

%	N	VALUE	LABEL
1.4	1	All 2" HI-5	
1.4	1	E-35	
1.4	1	HIE60	
1.4	1	Model 40	
1.4	1	ZL	
4.2	3	missing	
88.7	63		
-----	--		
100.0	71	cases	

Data type: character
Record/columns: 1/860-889

q31k_mak: ROOFTOP UNIT #2: Electronic Filter Make

(var is a 20-character string)

%	N	VALUE	LABEL
1.4	1	missing	
98.6	70		
----- --			
100.0	71	cases	

Data type: character
Record/columns: 1/891-910

q31k_mod: ROOFTOP UNIT #2: Electronic Filter Model

(var is a 30-character string)

%	N	VALUE	LABEL
1.4	1	missing	
98.6	70		
----- --			
100.0	71	cases	

Data type: character
Record/columns: 1/912-941

q32b_mak: ROOFTOP UNIT #3: Filter/Cleaning Make

(var is a 20-character string)

%	N	VALUE	LABEL
1.4	1	Aeroplant	
1.4	1	Ecoaire	
2.8	2	Econo Filter	
1.4	1	Flanders	
1.4	1	Glass Floss	
1.4	1	Perfect Pleat	
90.1	64		
-----	--		
100.0	71	cases	

Data type: character
Record/columns: 1/943-962

q32b_mod: ROOFTOP UNIT #3: Filter/Cleaning Model

(var is a 30-character string)

%	N	VALUE	LABEL
1.4	1	All 2" HI-5	
1.4	1	E-35	
1.4	1	Model 40	
1.4	1	ZL	
4.2	3	missing	
90.1	64		
-----	--		
100.0	71	cases	

Data type: character
Record/columns: 1/964-993

q32k_mak: ROOFTOP UNIT #3: Electronic Filter Make

(var is a 20-character string)

%	N	VALUE	LABEL
1.4	1	missing	
98.6	70		
-----	--		
100.0	71	cases	

Data type: character
Record/columns: 1/995-1014

q32k_mod: ROOFTOP UNIT #3: Electronic Filter Model

(var is a 30-character string)

%	N	VALUE	LABEL
1.4	1	missing	
98.6	70		
-----	--		
100.0	71	cases	

Data type: character
Record/columns: 1/1016-1045

TEXT ITEMS

TEXT ITEMS		
CASEID	VAR	TEXT
21094	q1	: in-house engineer
21605	q1	: shop personnel on site
23094	q1	: In-house staff
23542	q1	: landlord
25173	q1	: In house [staff?]
51760	q1	: Brower Mechanical (HVAC Company)
52014	q15g	: auto
53274	q15g	: also cycle auto
23242	q16g	: Switch outside
52014	q16g	: auto
53274	q16g	: cycles auto ..
15010	q22	: 100
23094	q22	: 140
25173	q22	: 120
43181	q22	: 100
43291	q22	: ~150
51792	q22	: 157
53232	q22	: 100ish
11133	q24	: No outdoor air intake
11133	q25	: No outdoor air intake
41722	q25	: Minimum position on economiser
25073	q28g1	: Alarm
13332	q28g2	: IR electric
25073	q28g2	: Alarm
13332	q28g3	: IR electric
25073	q28g3	: Alarm
13332	q28g4	: IR electric
25073	q28g4	: Alarm
41722	q30e	: H1-E
53274	q30e	: paper pleat
53274	q31e	: paper pleat
53274	q32e	: paper pleat

Appendix G.

Pie Charts for SMCB Survey Responses

Pie Charts for SMCB Survey Responses

(for both the telephone survey and the HVAC supplement)

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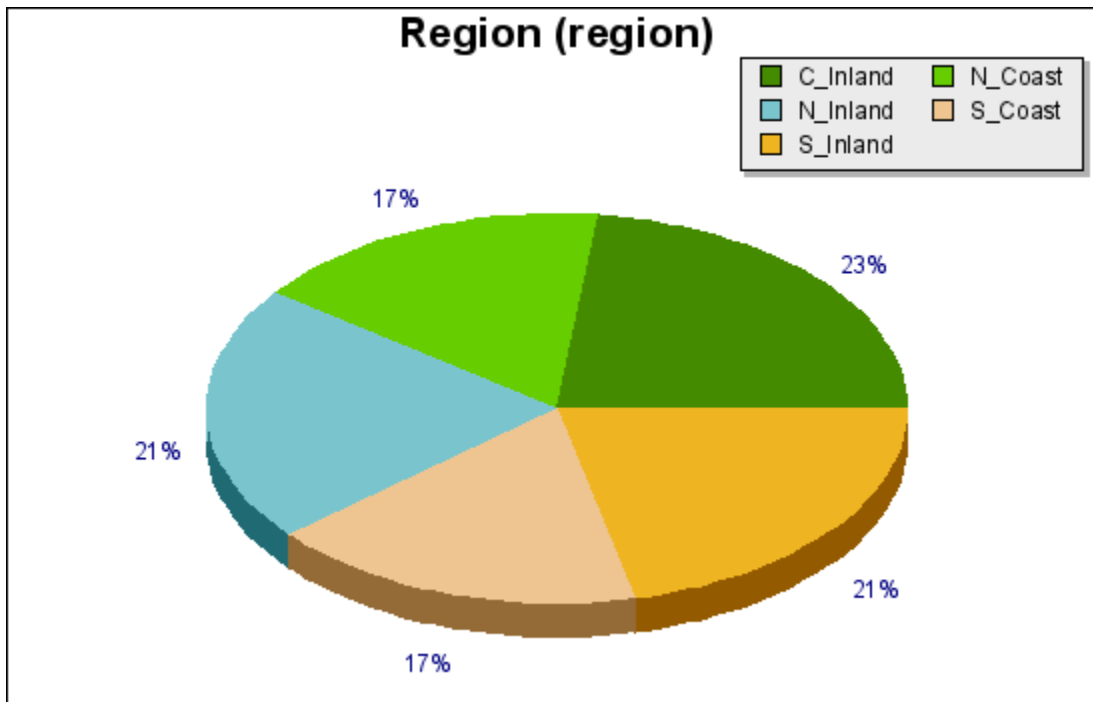
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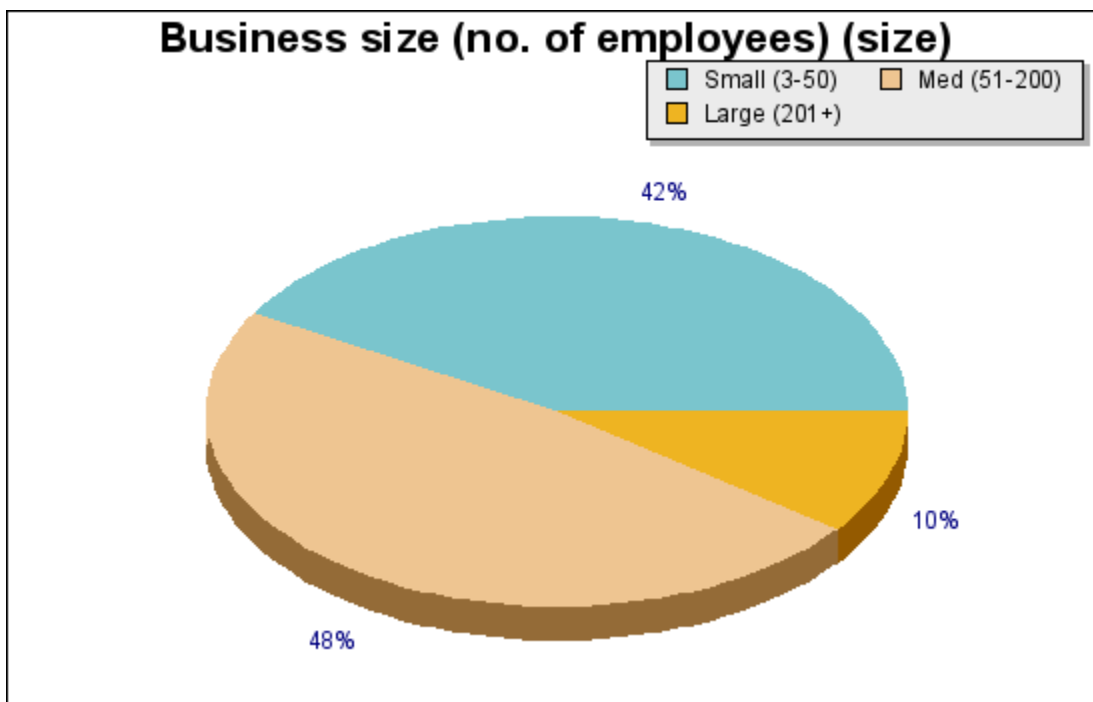
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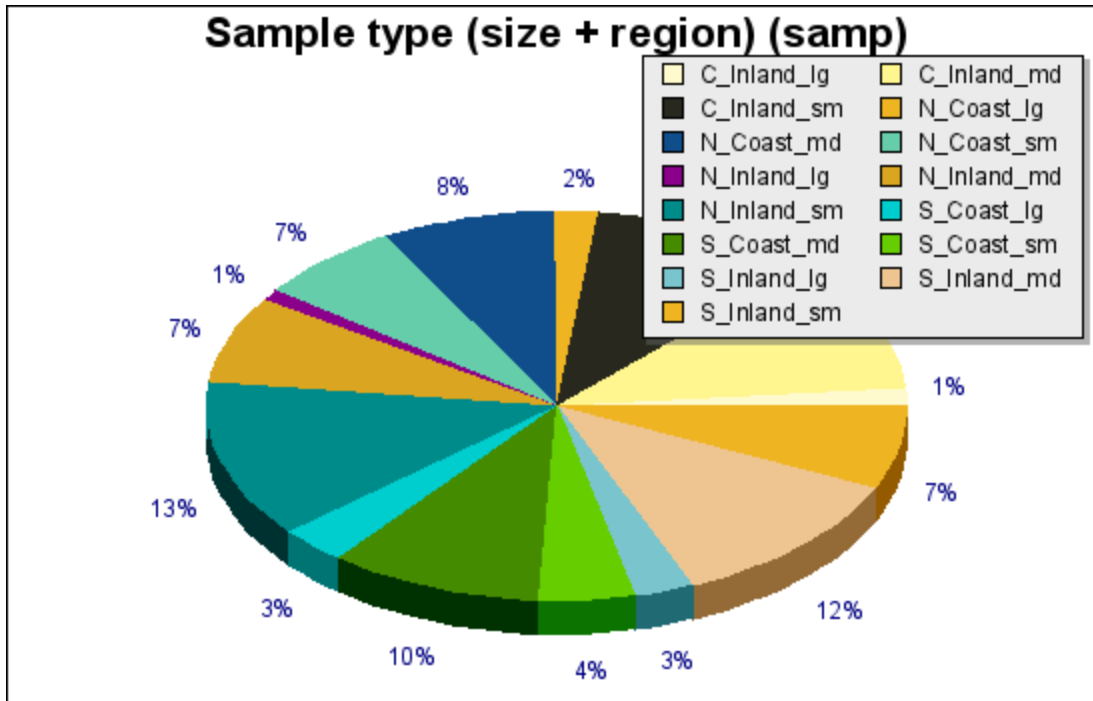
Case Identification



Question region: Region

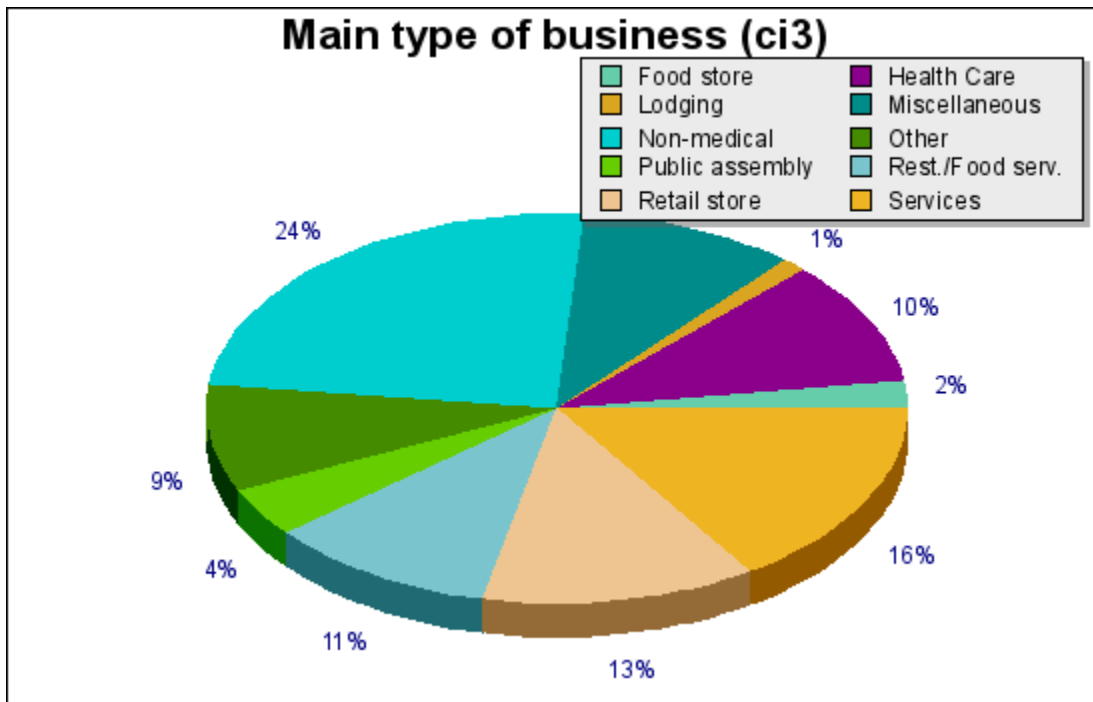


Question size: Business size (no. of employees)

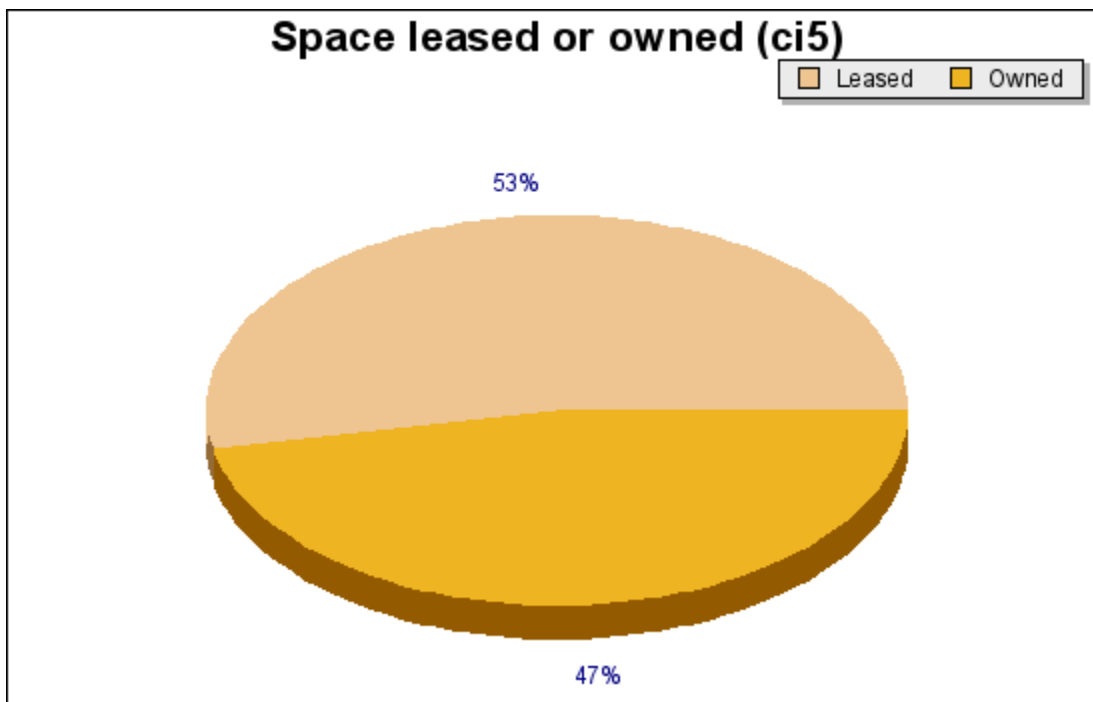


Question samp: Sample type (size + region)

Type Of Business

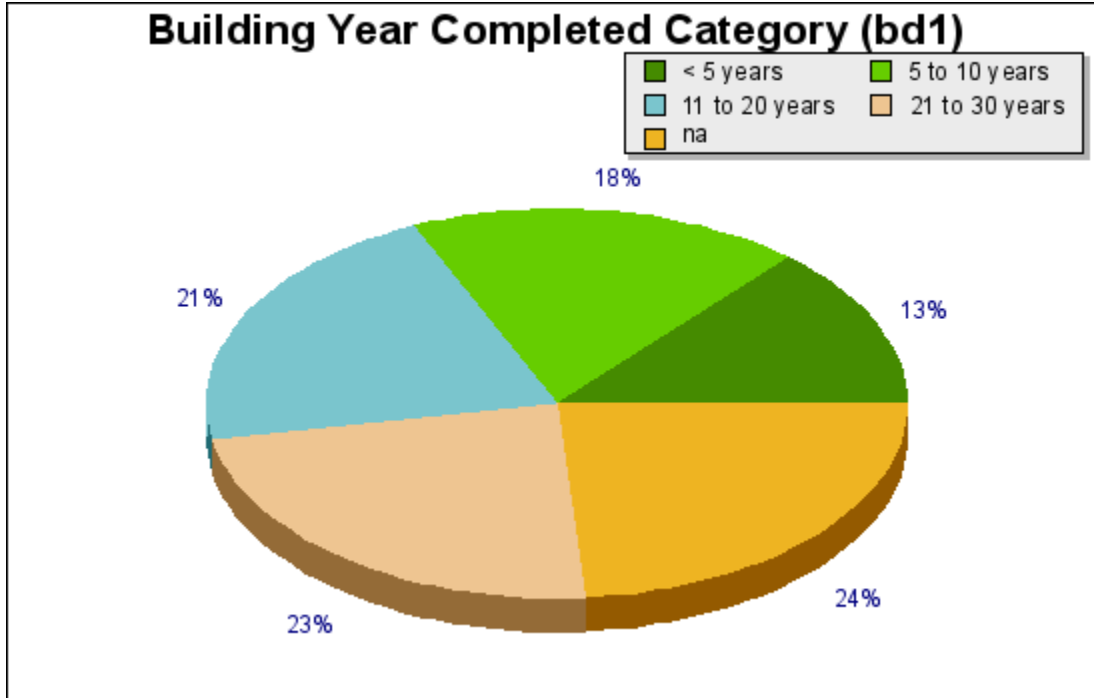


Question ci3: Main type of business

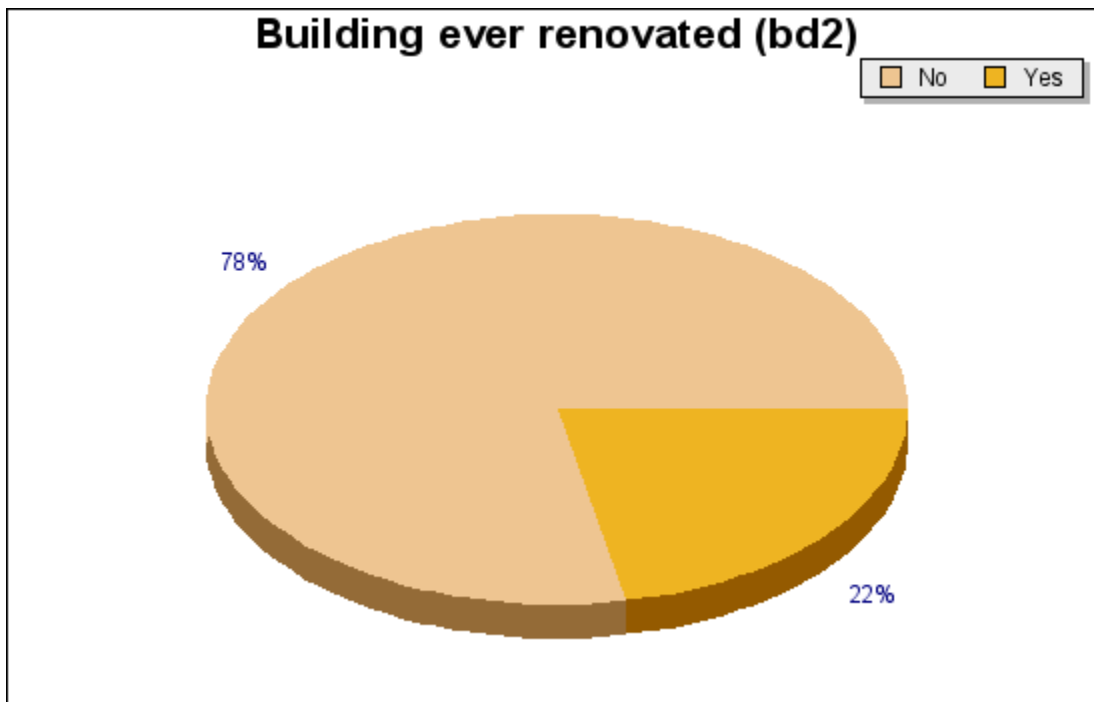


Question ci5: Space leased or owned

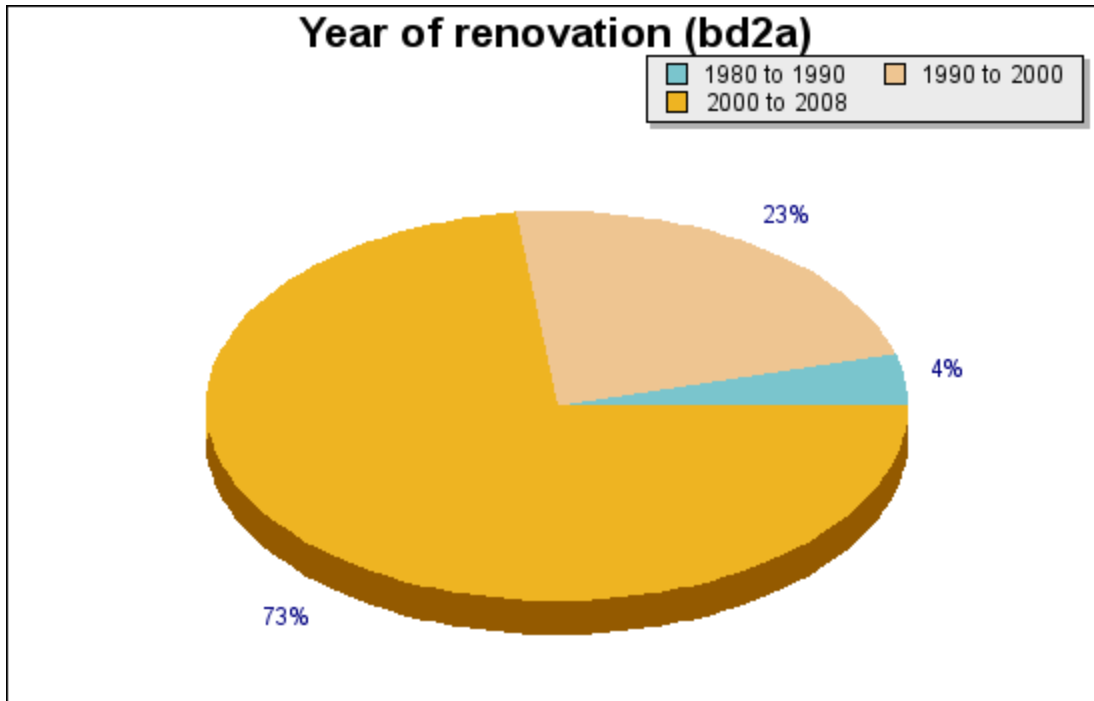
Building Description



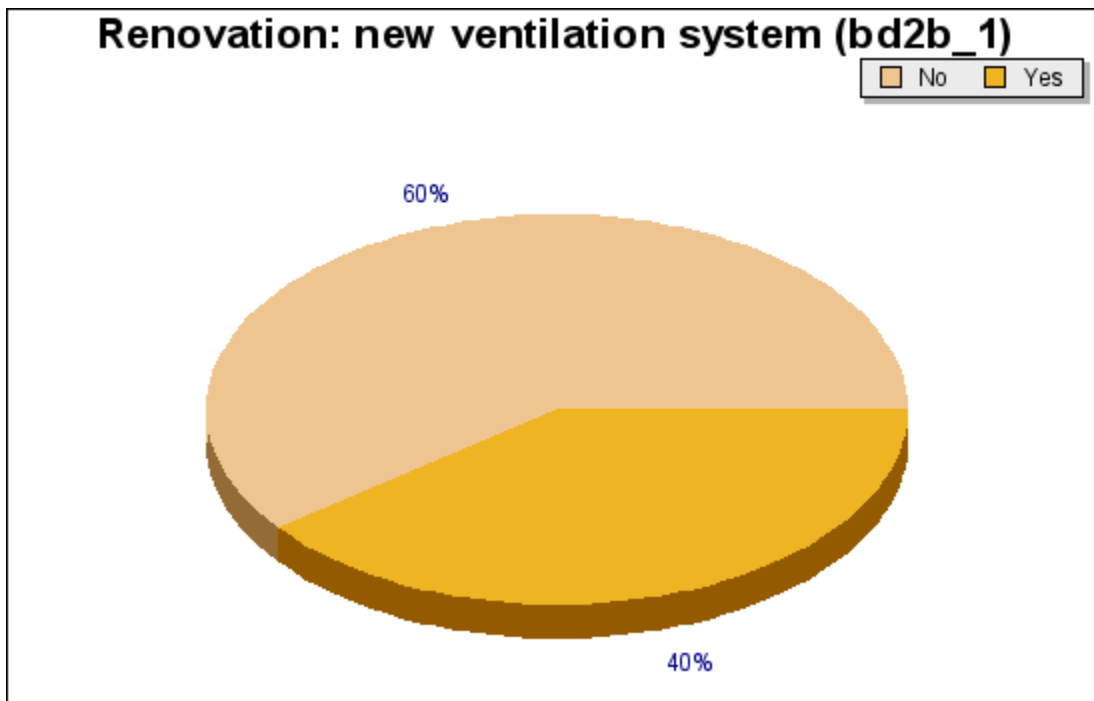
Question bd1: Year building completed



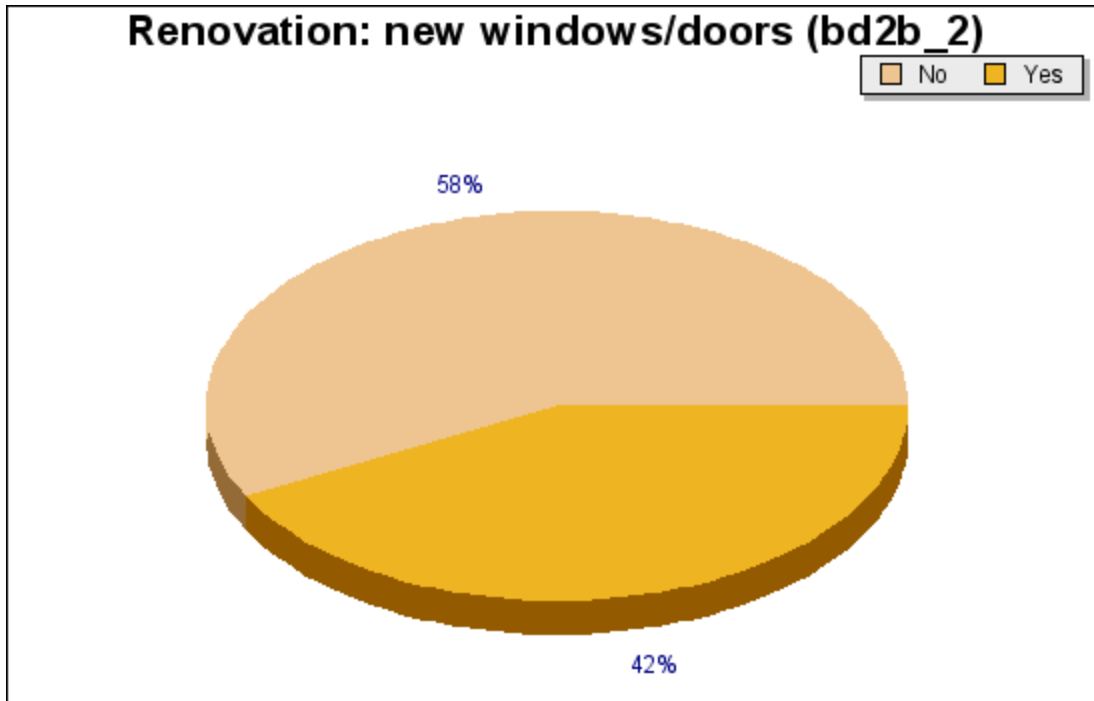
Question bd2: Building ever renovated



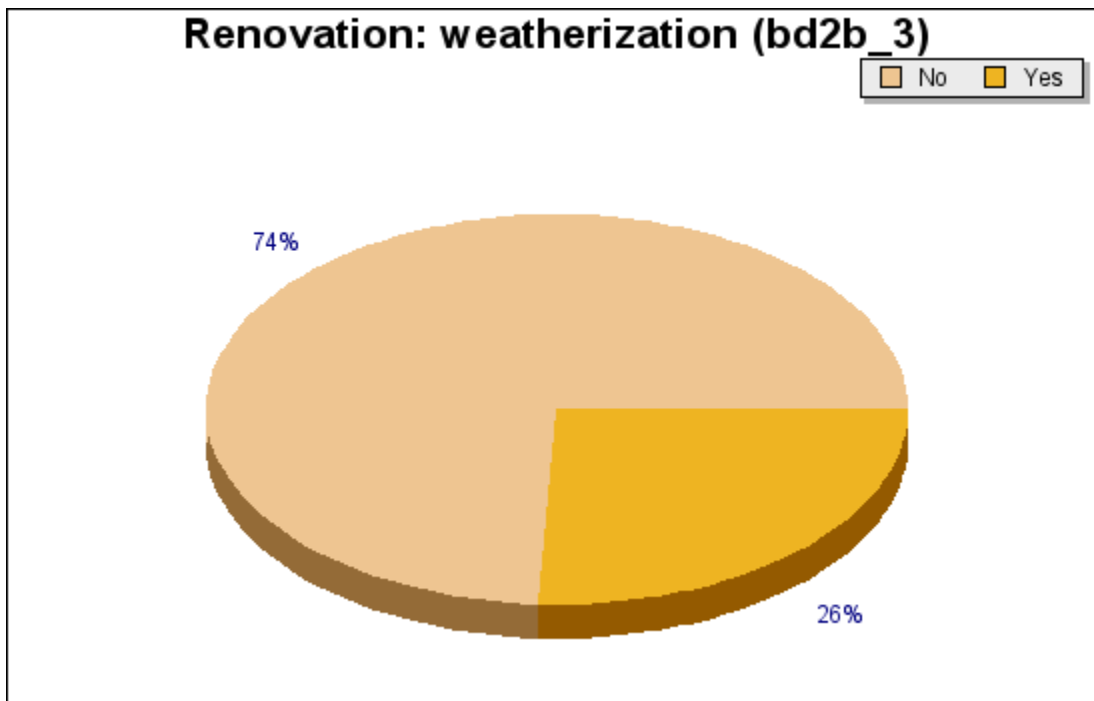
Question bd2a: Year of renovation



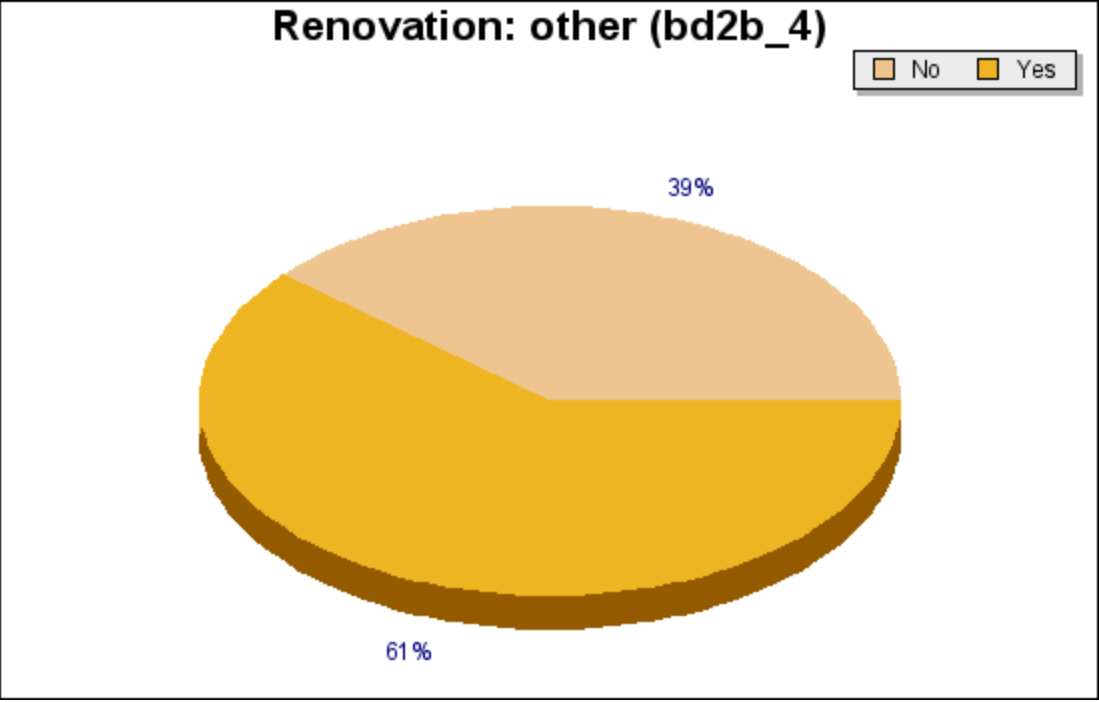
Question bd2b_1: Renovation: new ventilation system



Question bd2b_2: Renovation: new windows/doors

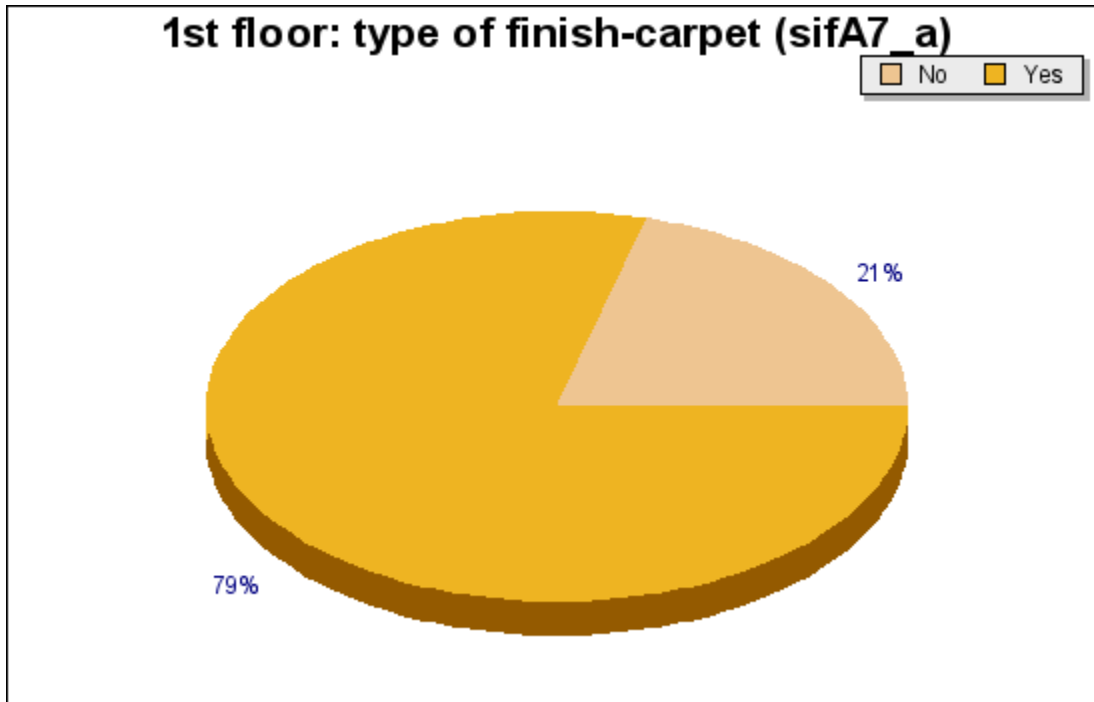


Question bd2b_3: Renovation: weatherization

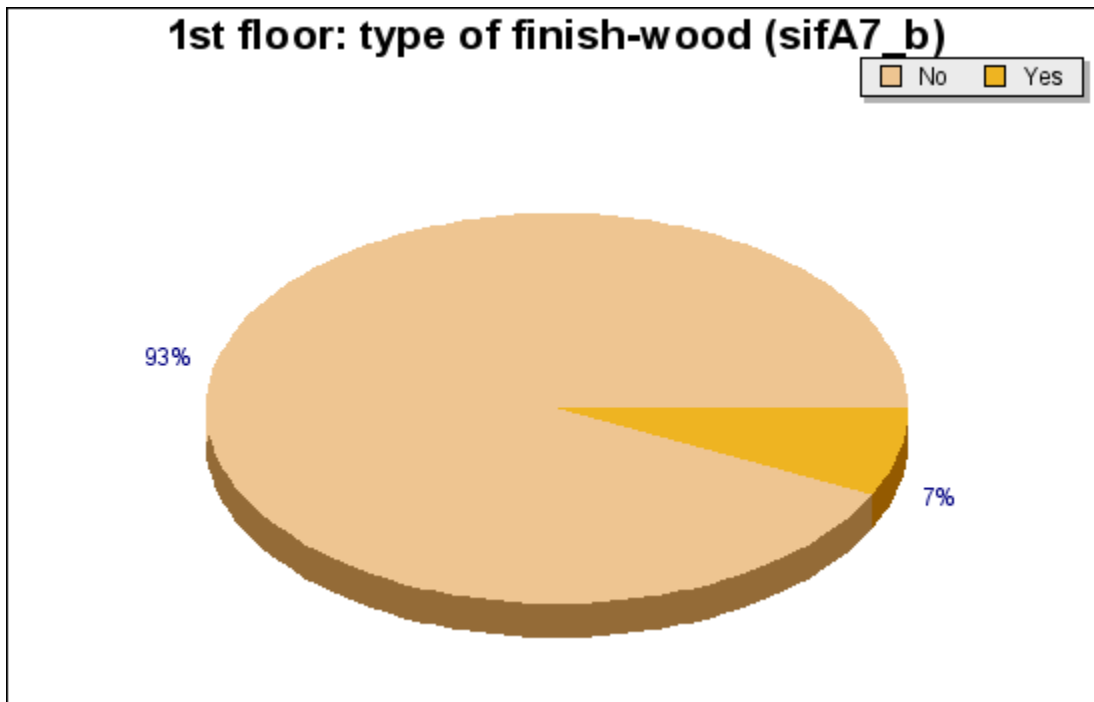


Question bd2b_4: Renovation: other

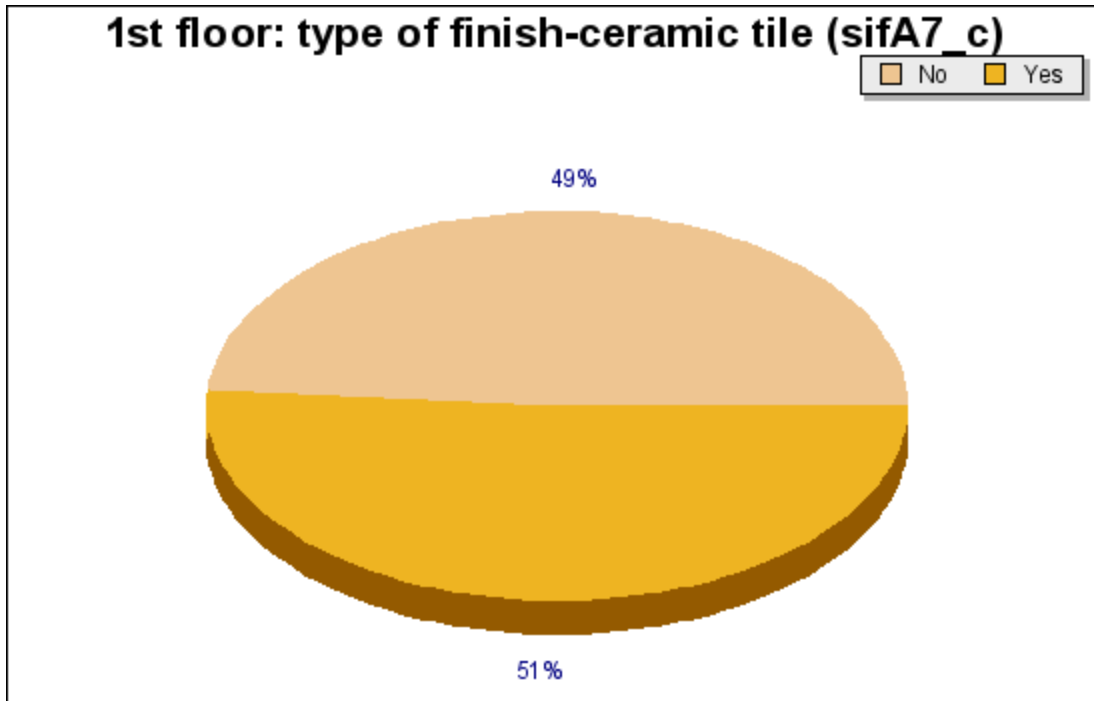
Space Interior Finishes



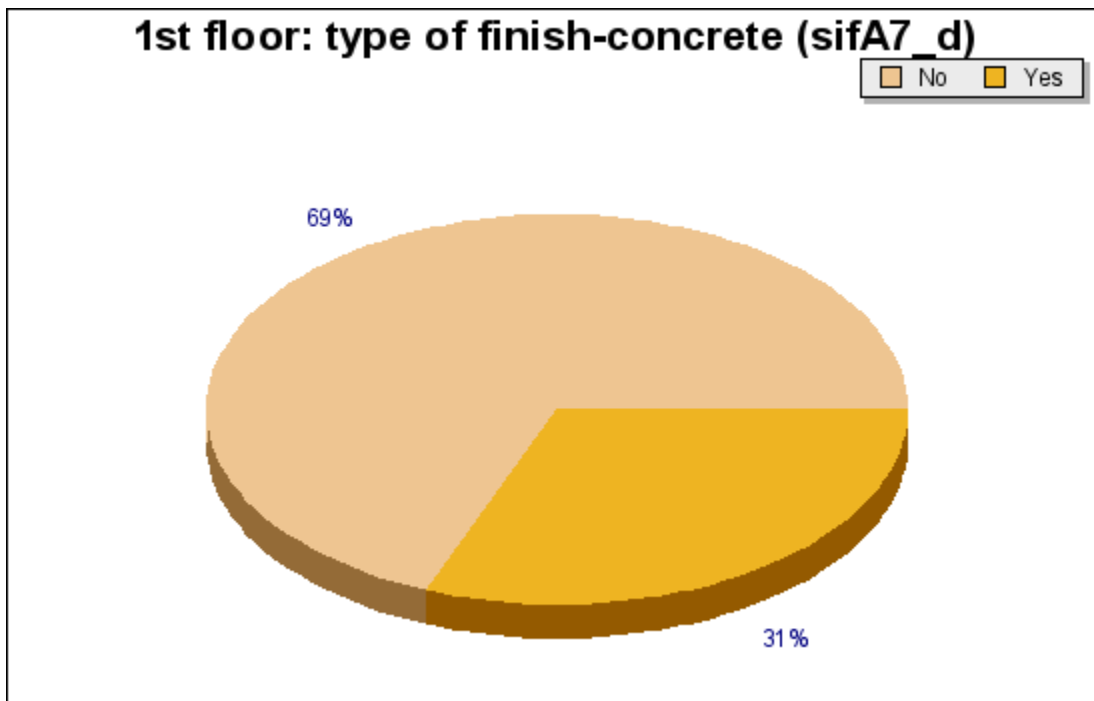
Question sifA7_a: 1st floor: type of finish-carpet



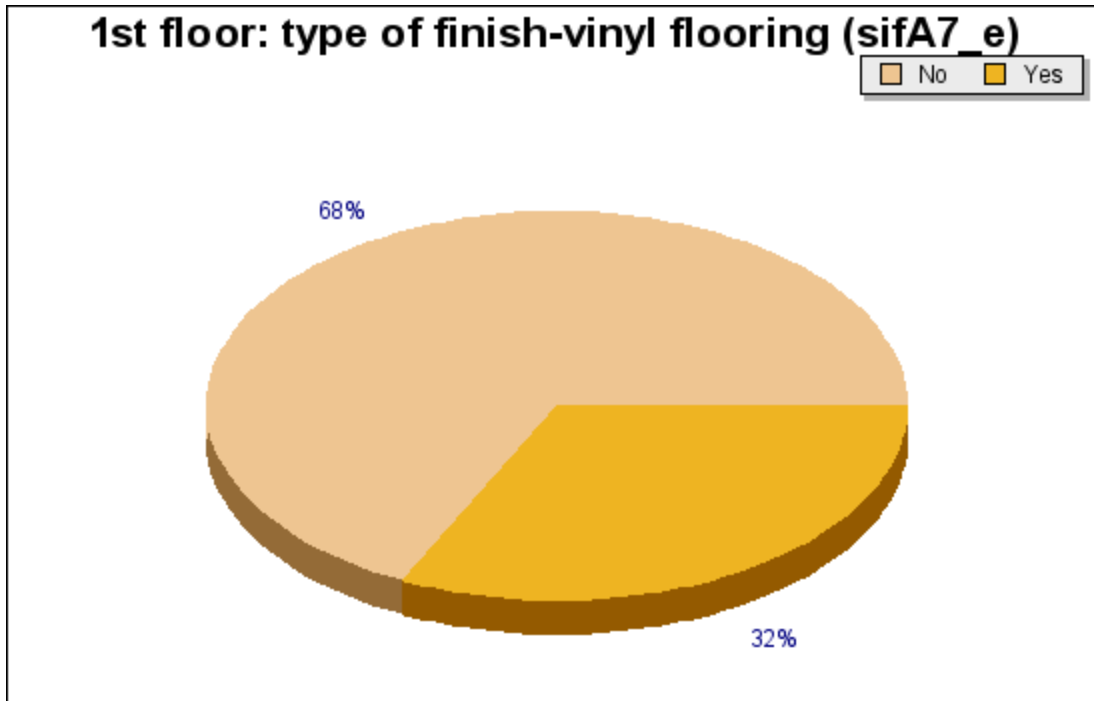
Question sifA7_b: 1st floor: type of finish-wood



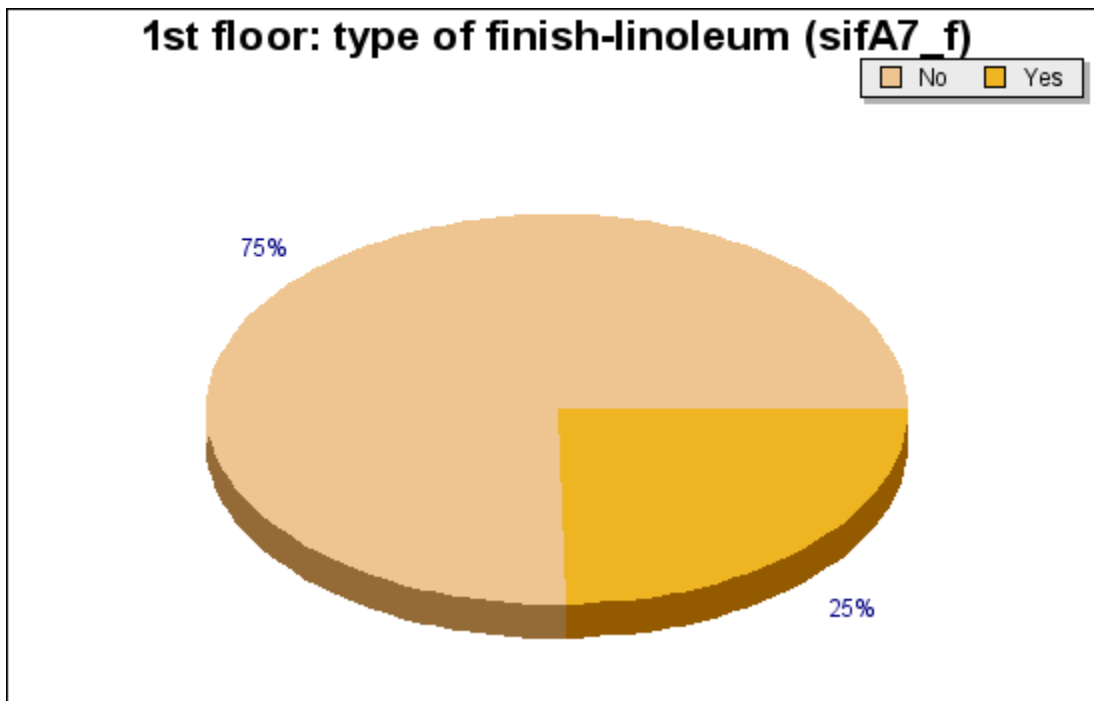
Question sifA7_c: 1st floor: type of finish-ceramic tile



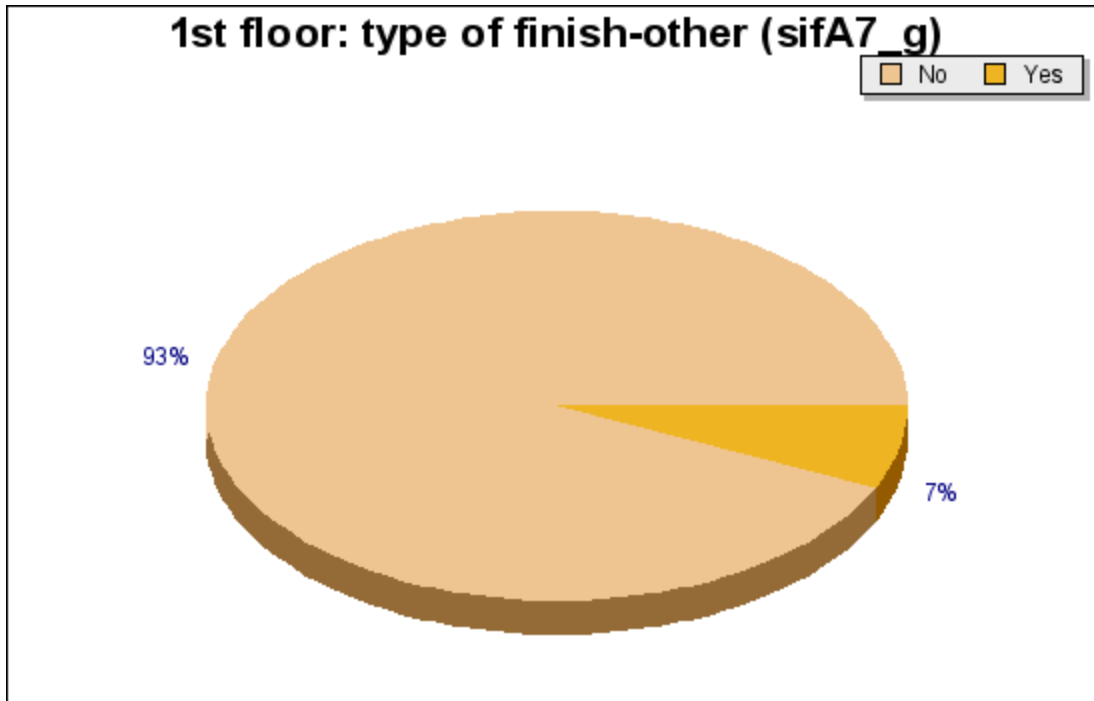
Question sifA7_d: 1st floor: type of finish-concrete



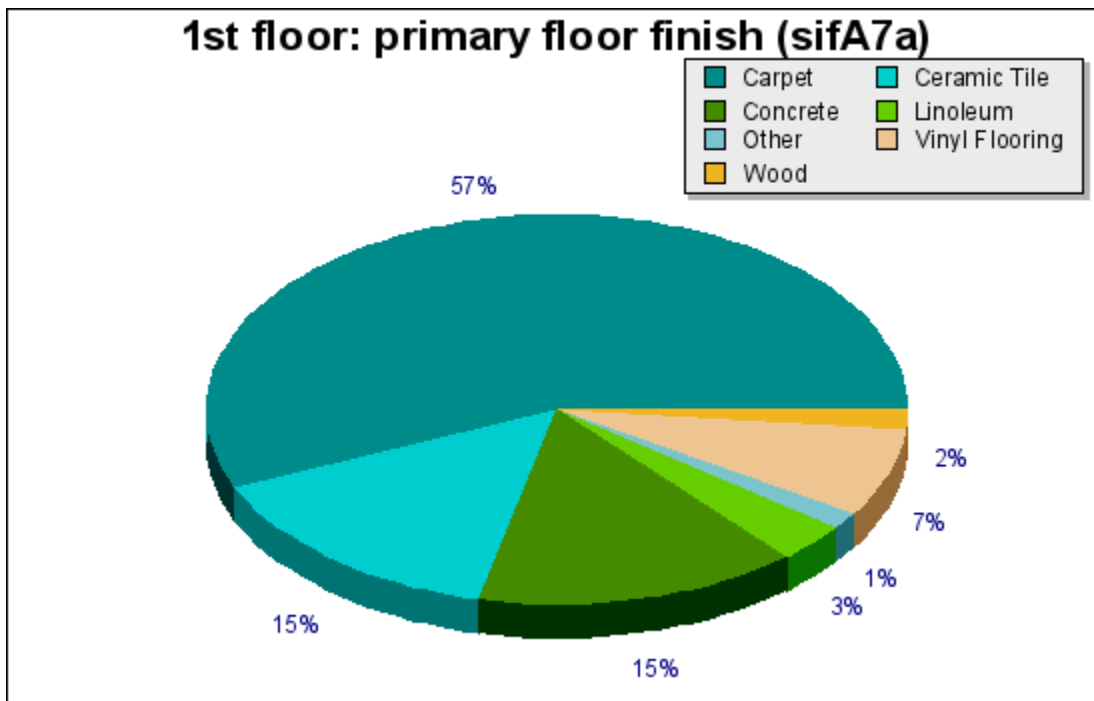
Question sifA7_e: 1st floor: type of finish-vinyl flooring



Question sifA7_f: 1st floor: type of finish-linoleum

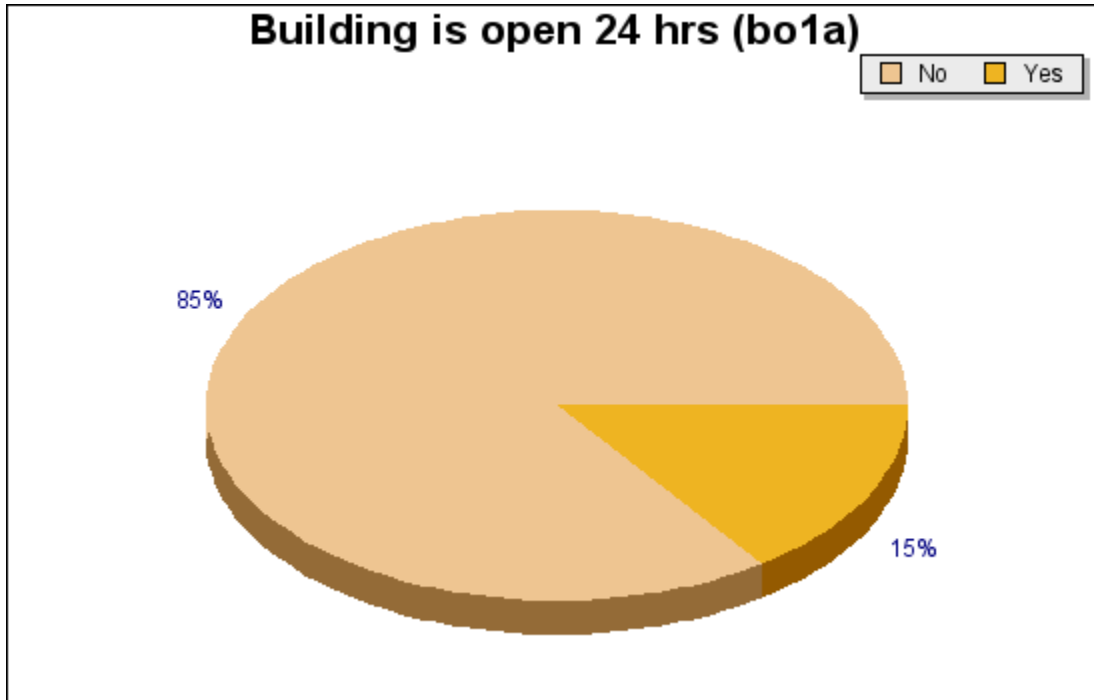


Question sifA7_g: 1st floor: type of finish-other

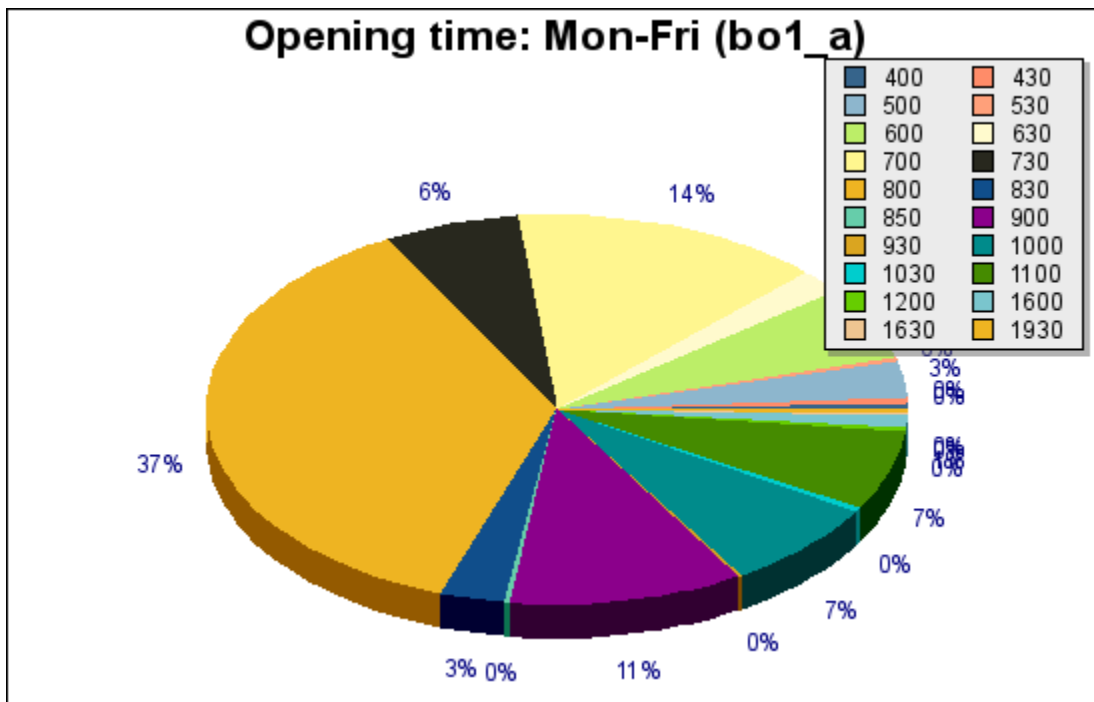


Question sifA7a: 1st floor: primary floor finish

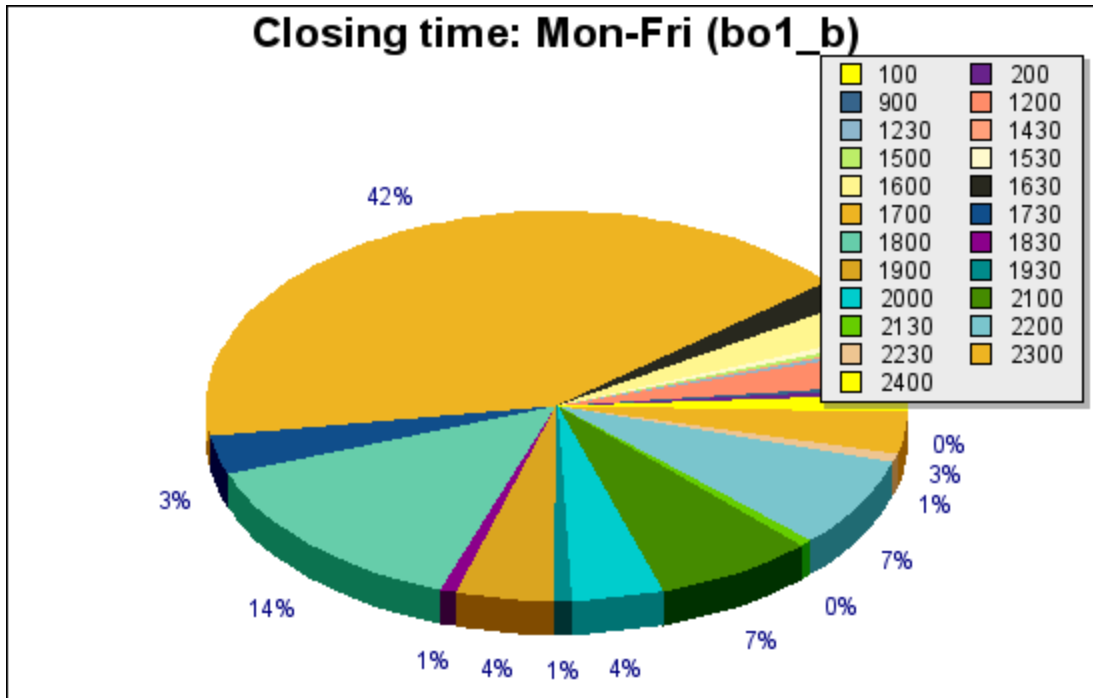
Business Hours



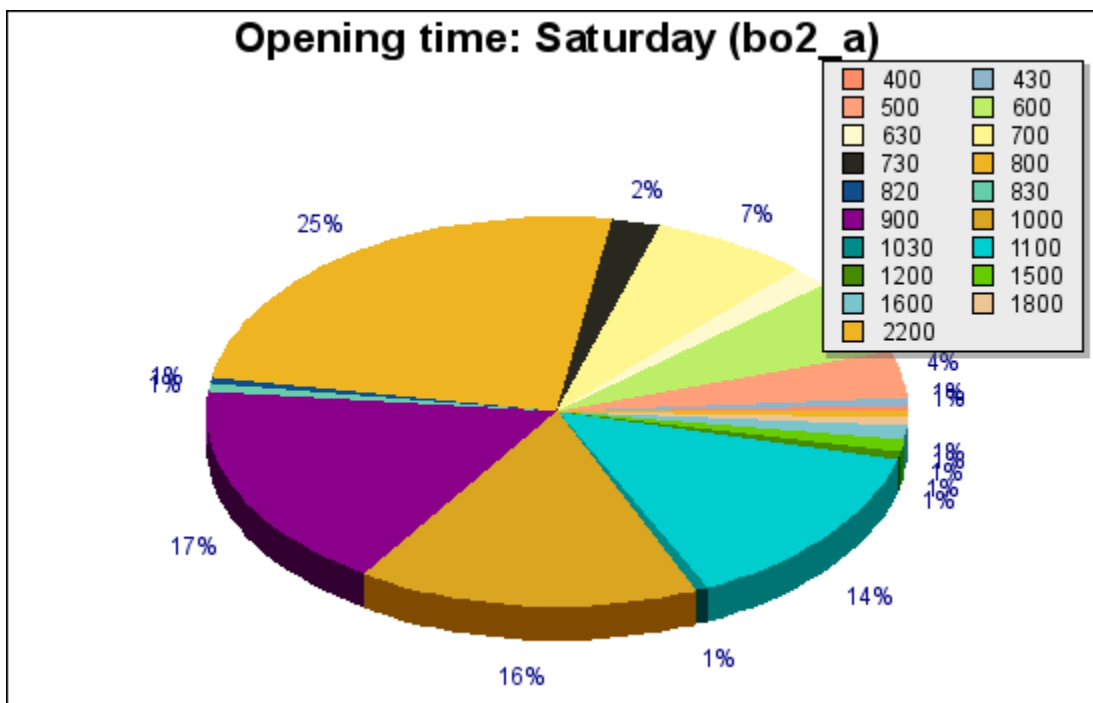
Question bo1a: Building is open 24 hrs



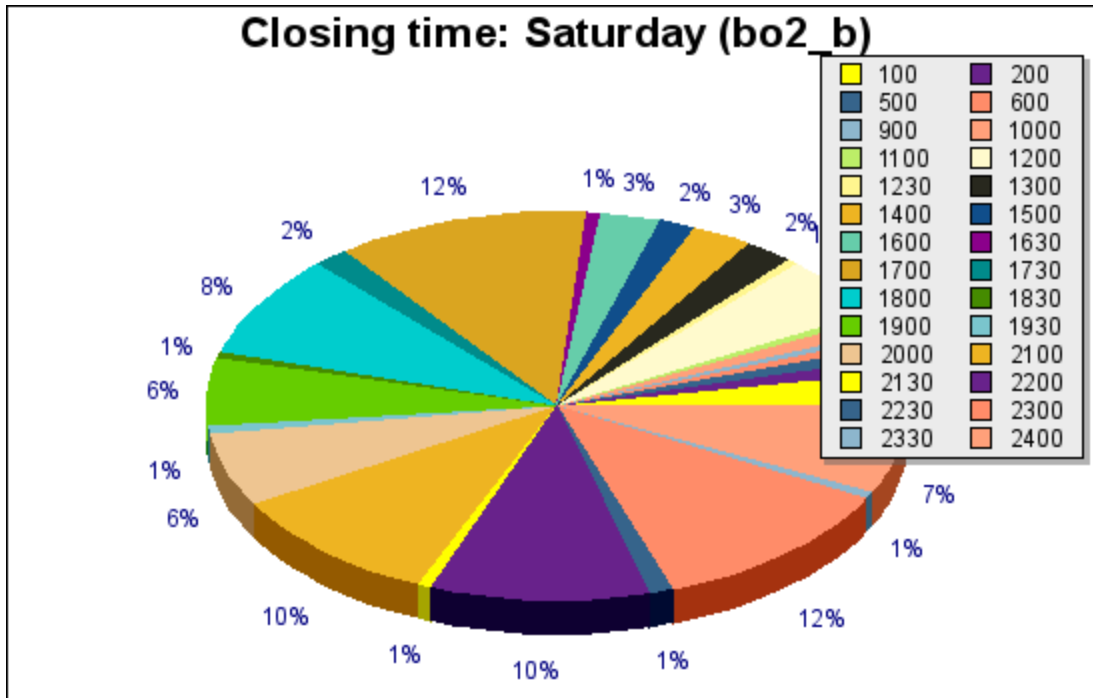
Question bo1_a: Opening time: Mon-Fri



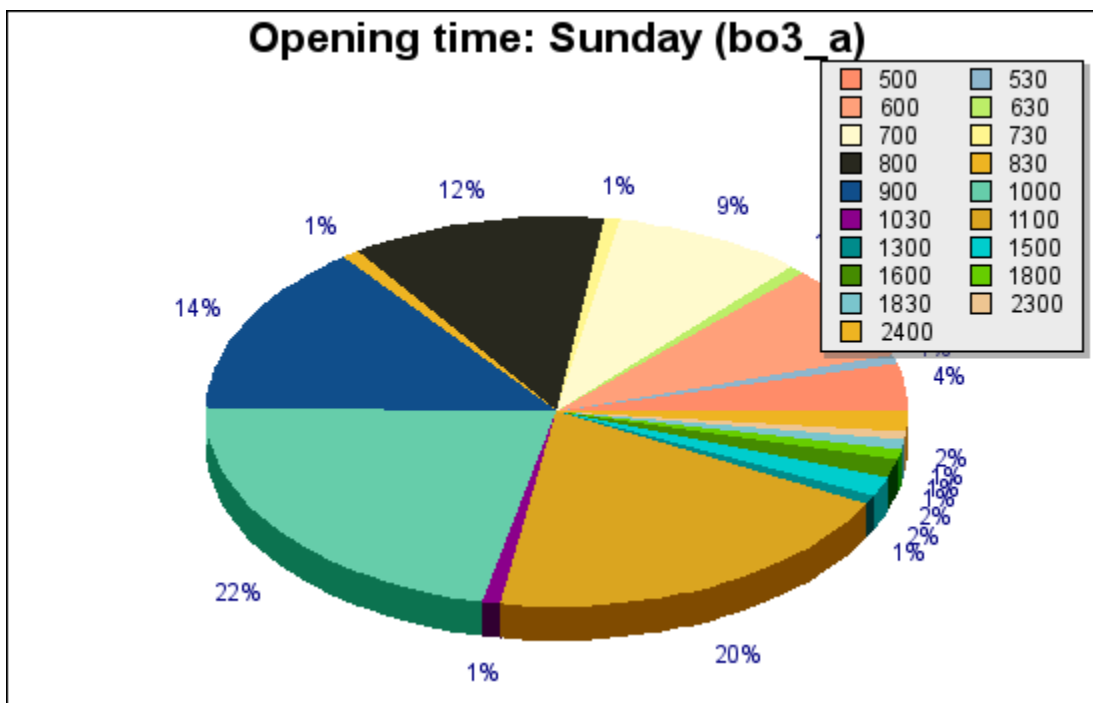
Question bo1_b: Closing Time: Mon-Fri



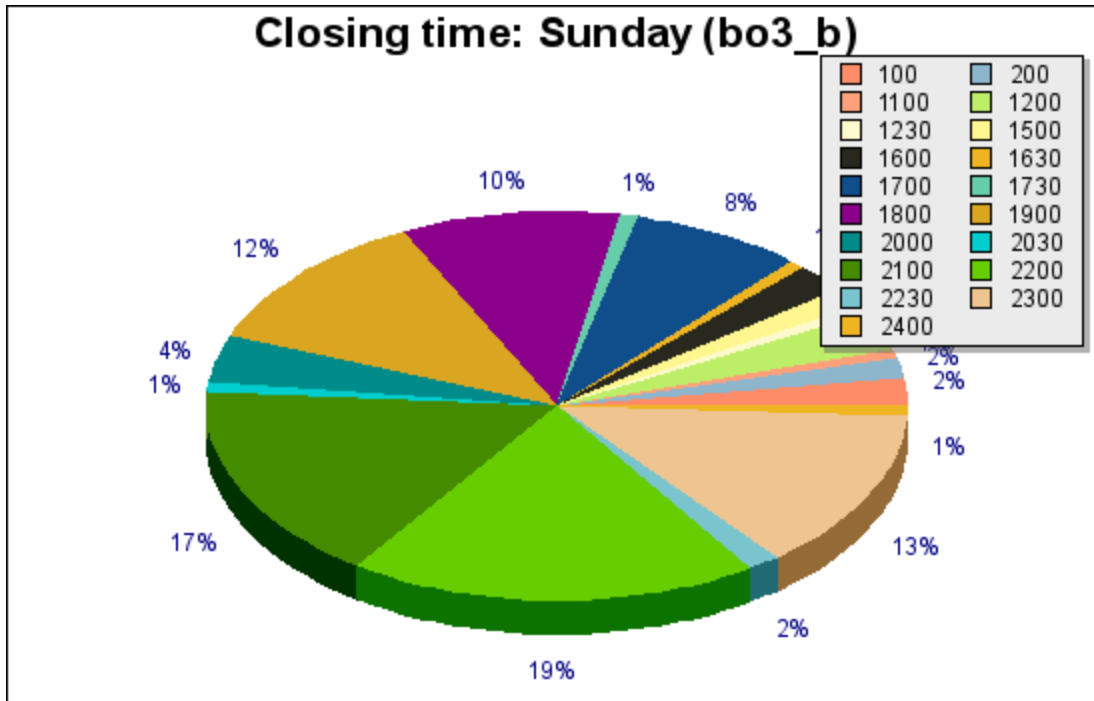
Question bo2_a: Opening time: Saturday



Question bo2_b: Closing time: Saturday

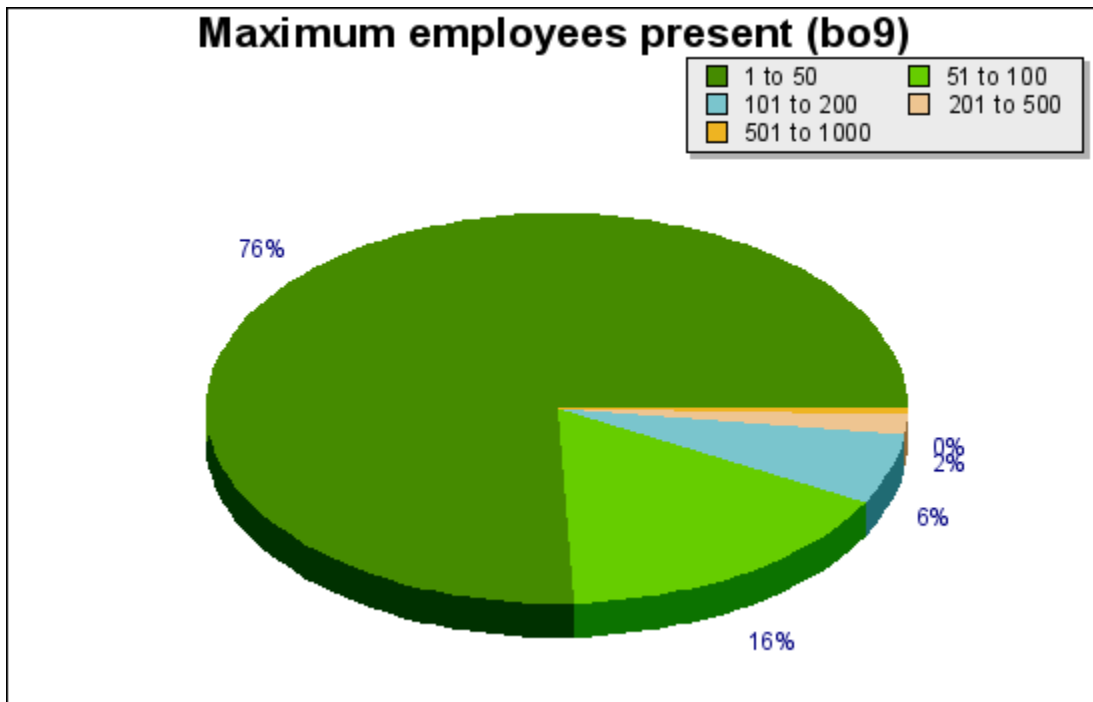


Question bo3_a: Opening time: Sunday

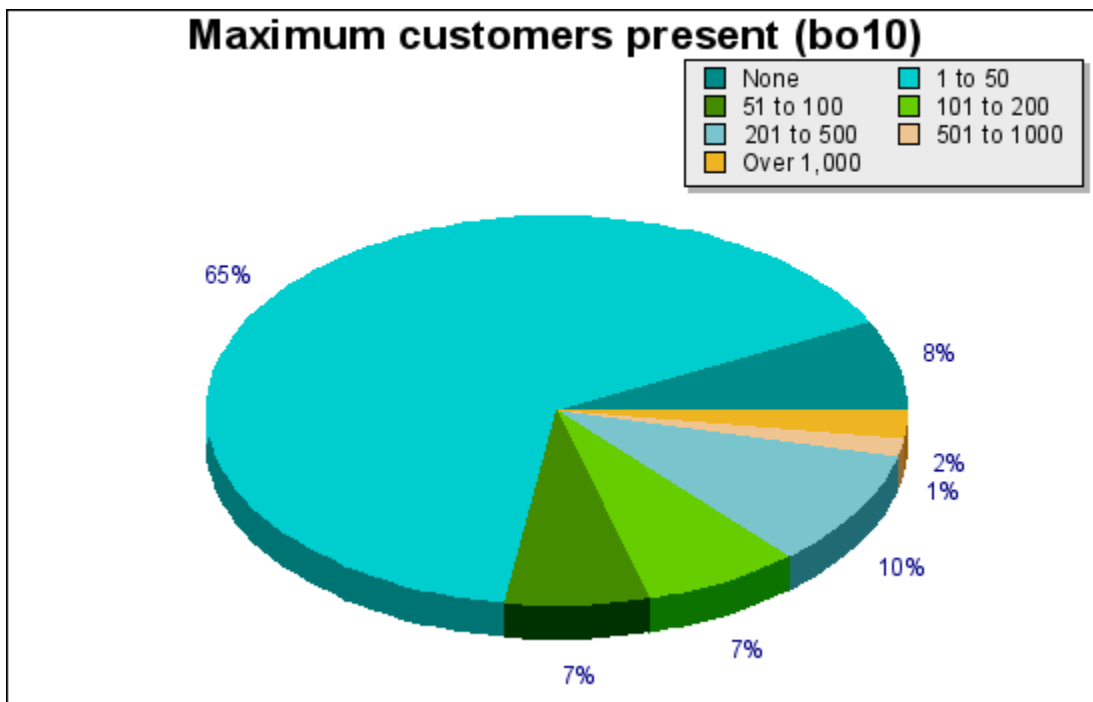


Question bo3_b: Closing time: Sunday

Persons Present

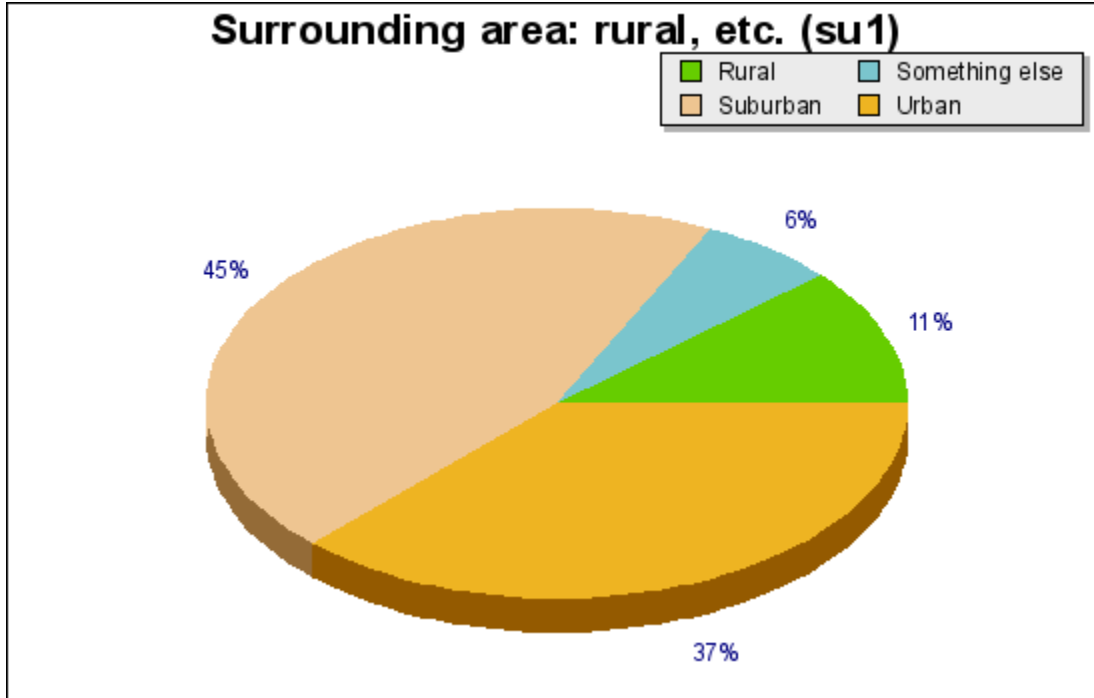


Question bo9: Maximum employees present



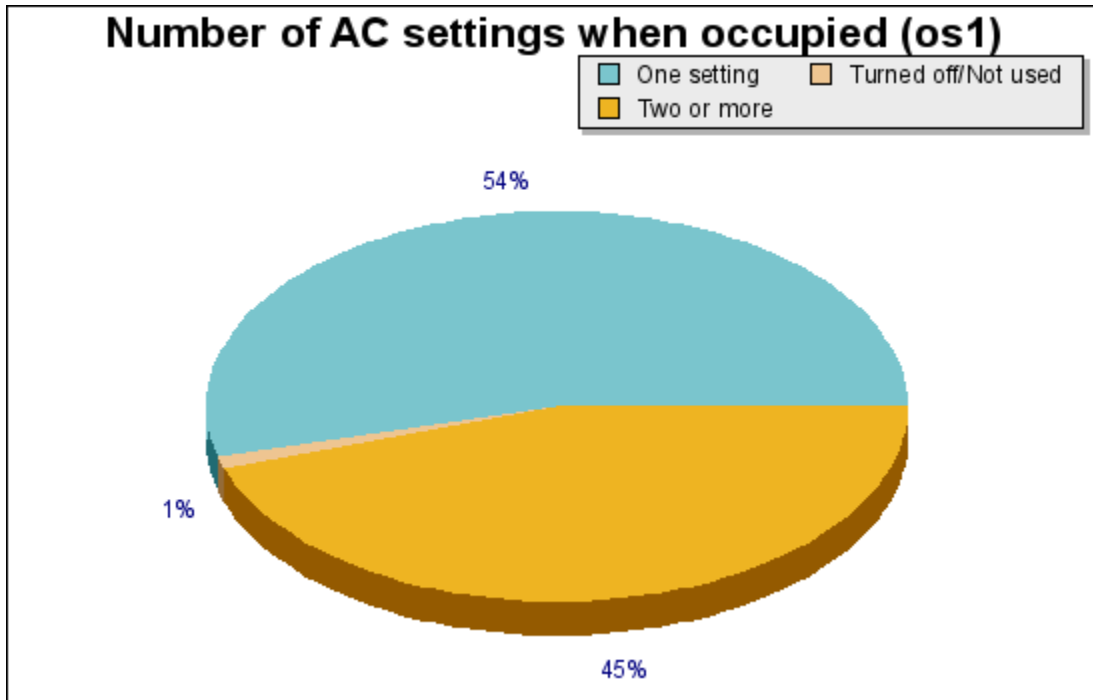
Question bo10: Maximum customers present

Surrounding Locale

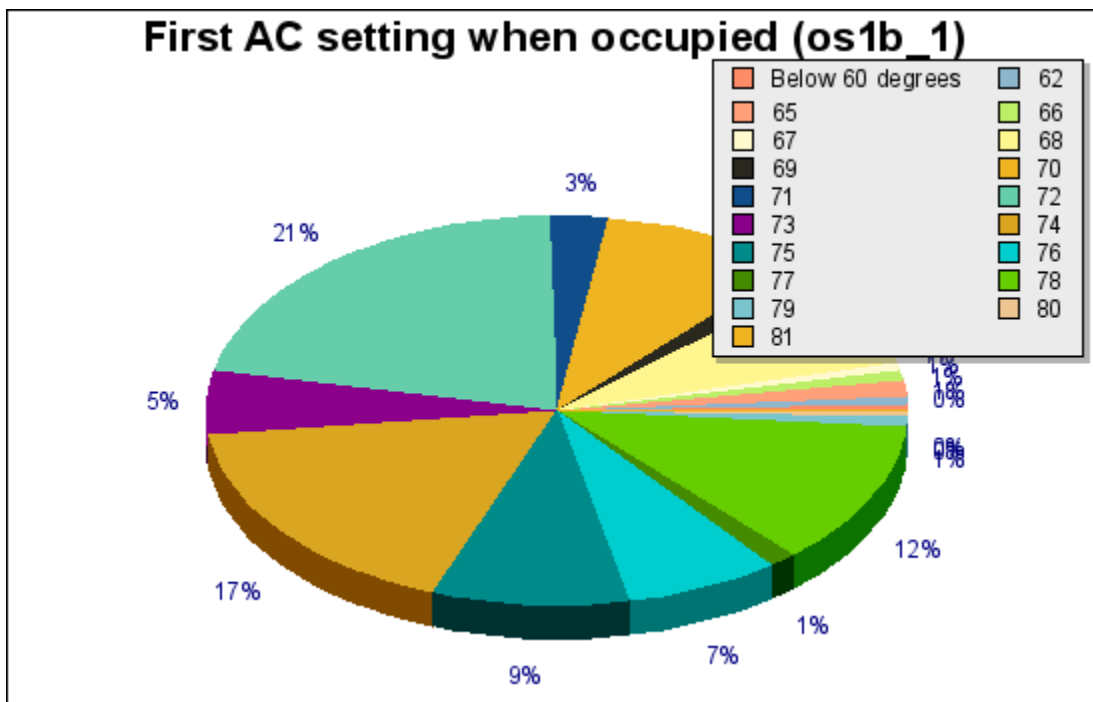


Question su1: Surrounding area: rural, etc.

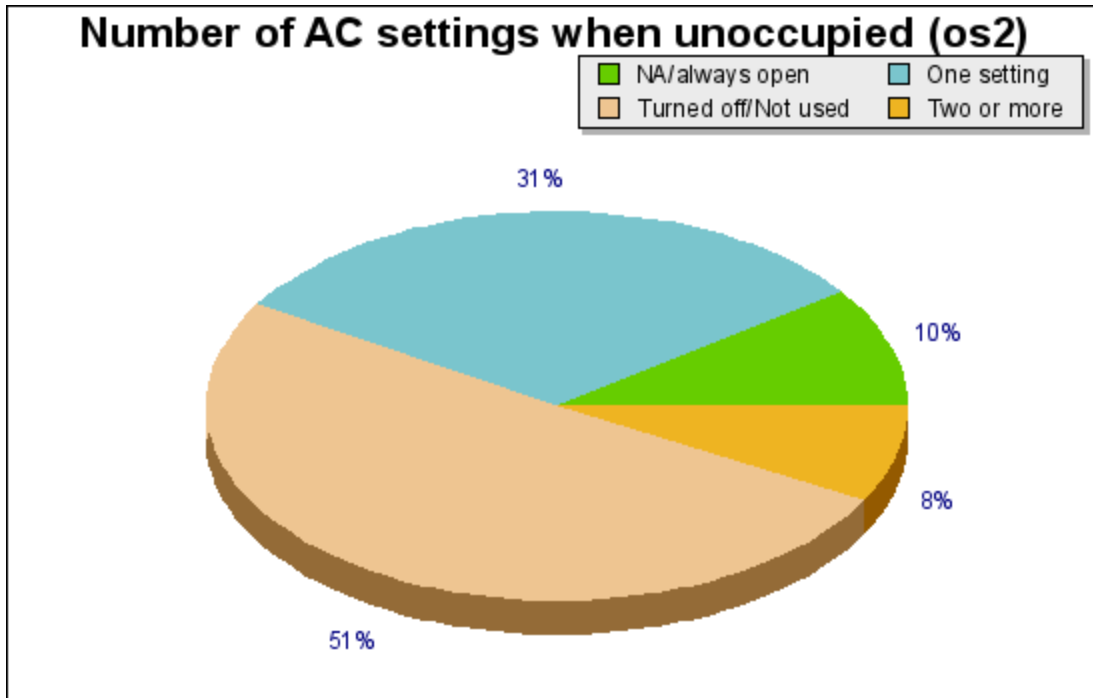
HVAC Operating Schedule



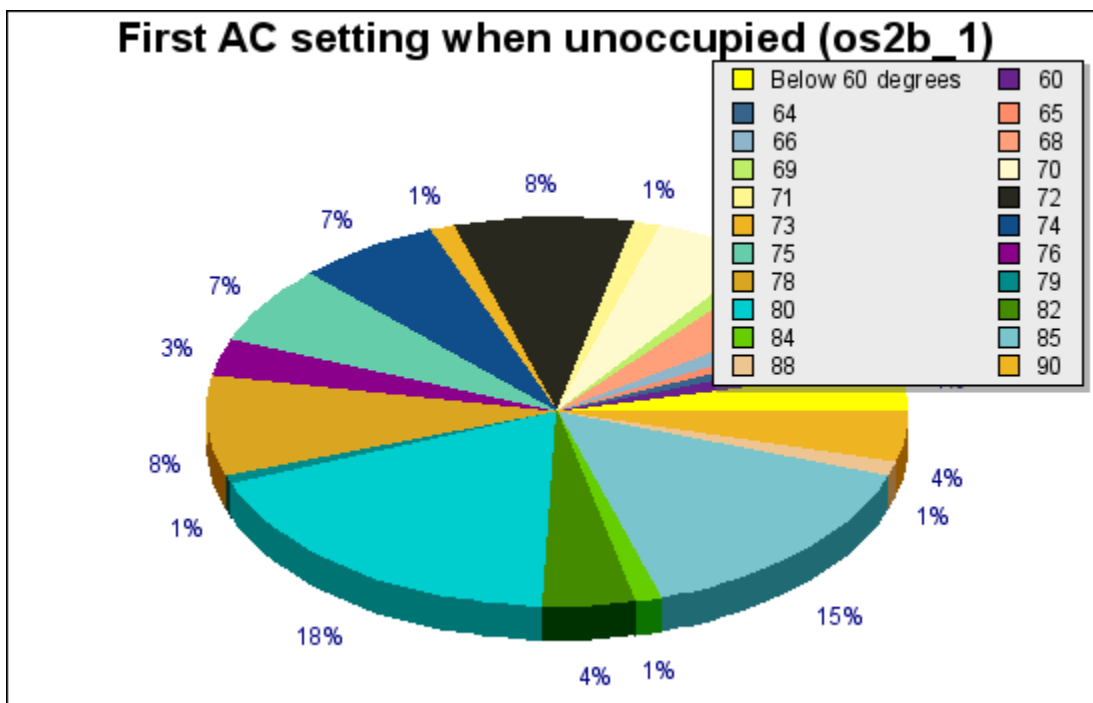
Question os1: Number of AC settings when occupied



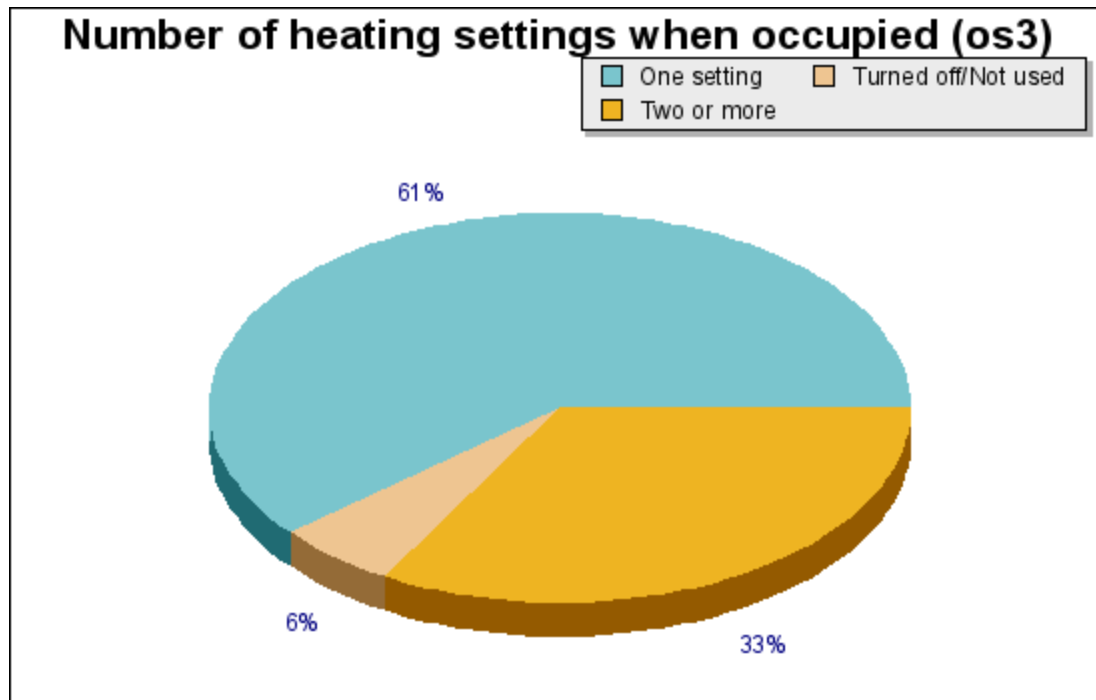
Question os1b_1: First AC setting when occupied



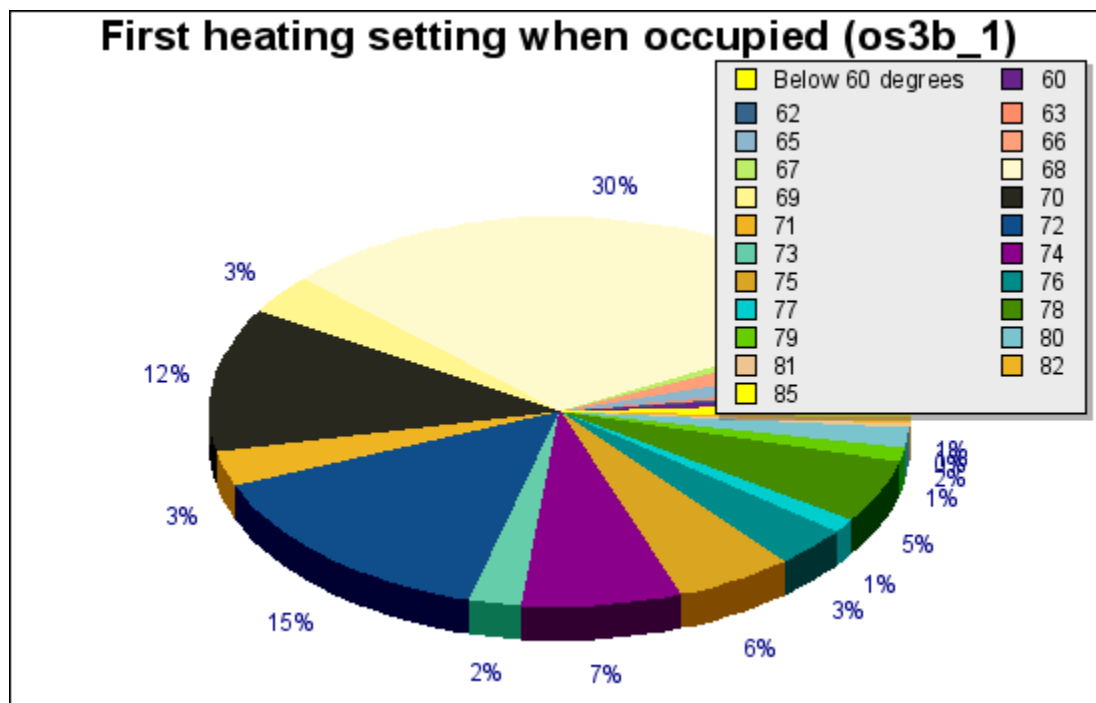
Question os2: Number of AC settings when unoccupied



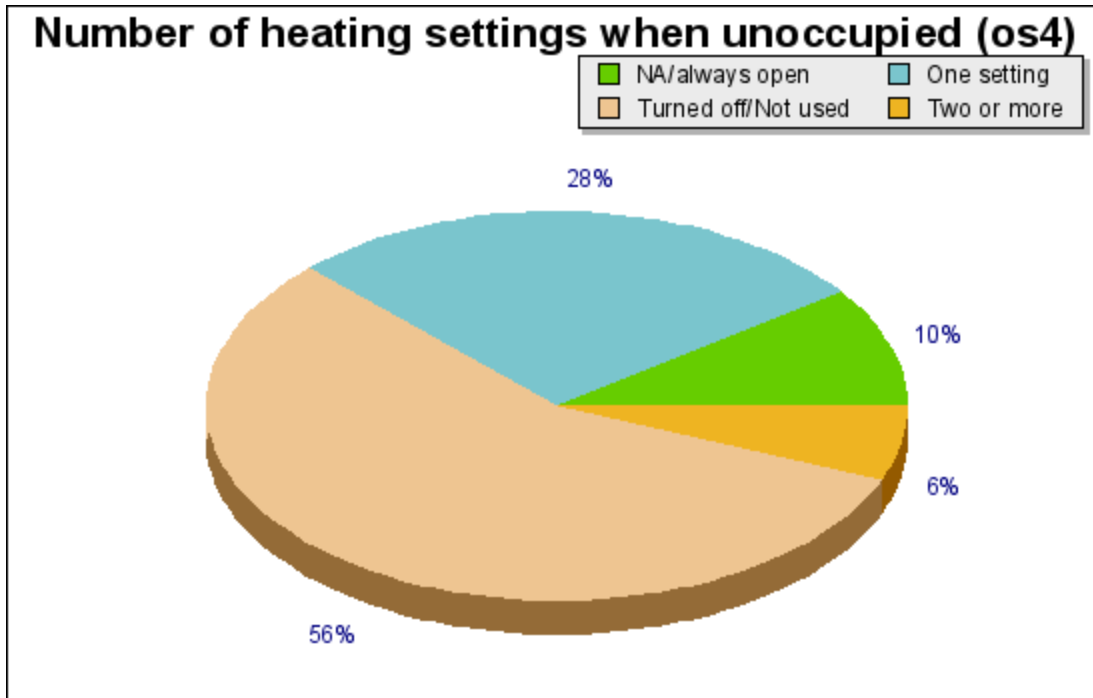
Question os2b_1: First AC setting when unoccupied



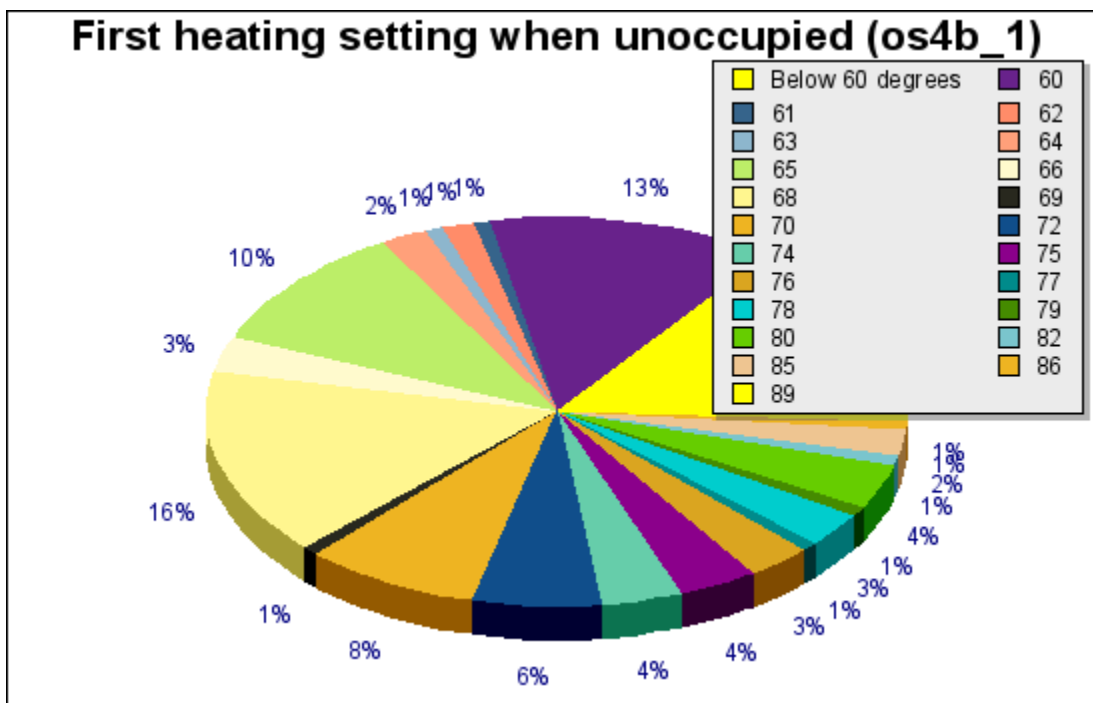
Question os3: Number of heating settings when occupied



Question os3b_1: First heating setting when occupied

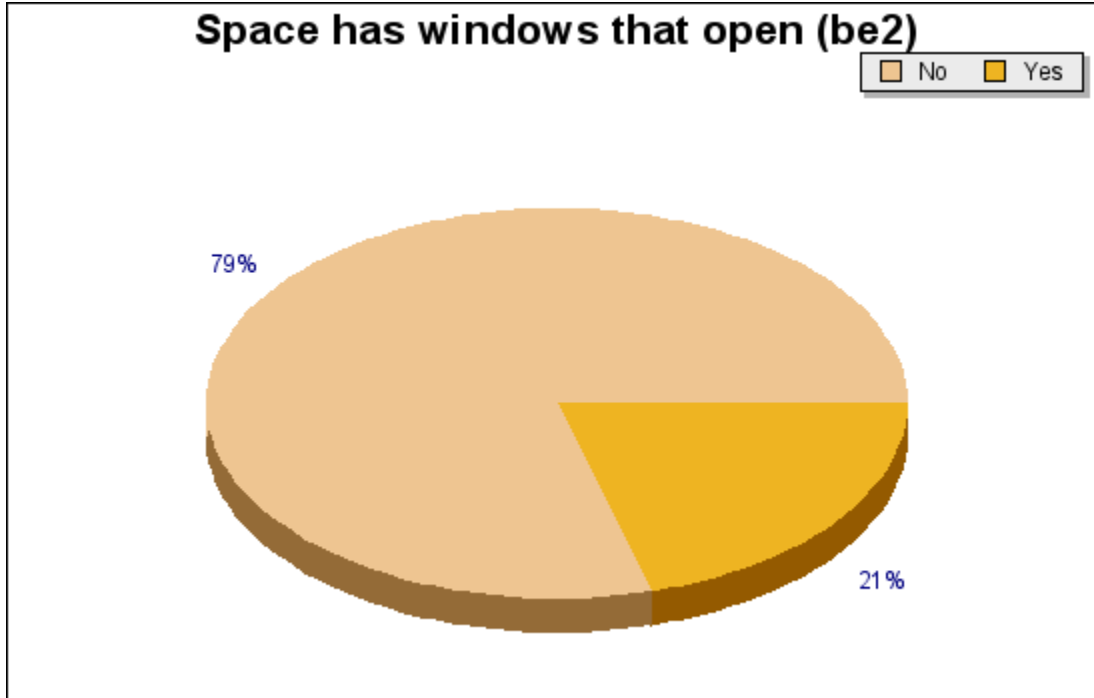


Question os4: Number of heating settings when unoccupied

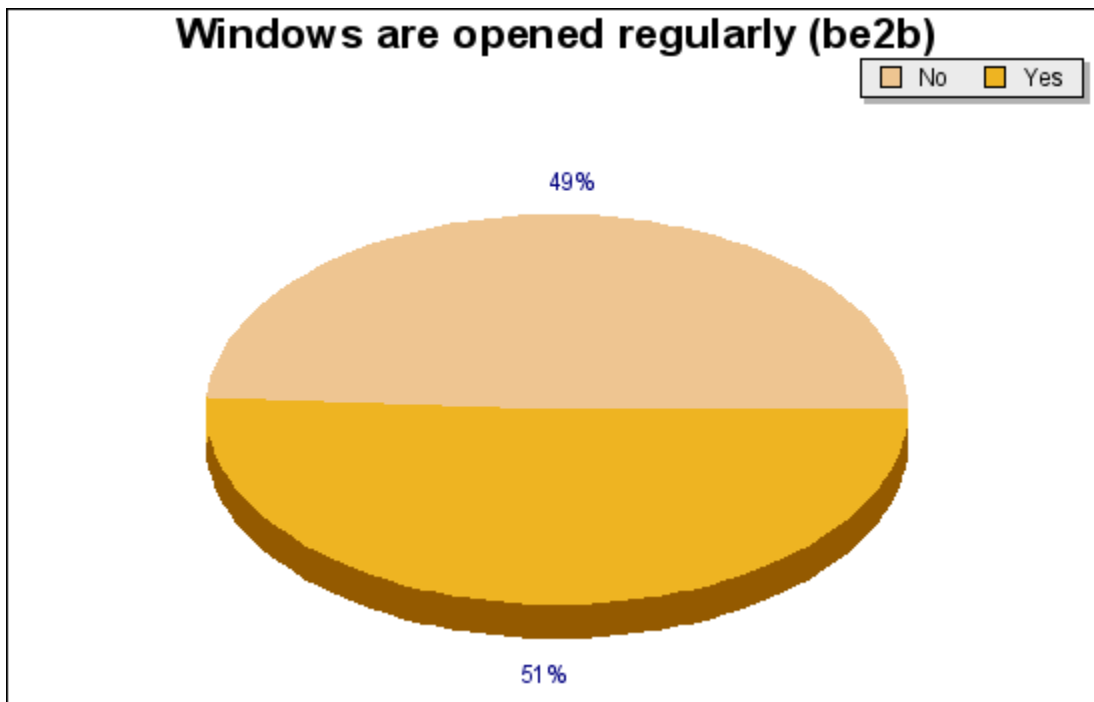


Question os4b_1: First heating setting when unoccupied

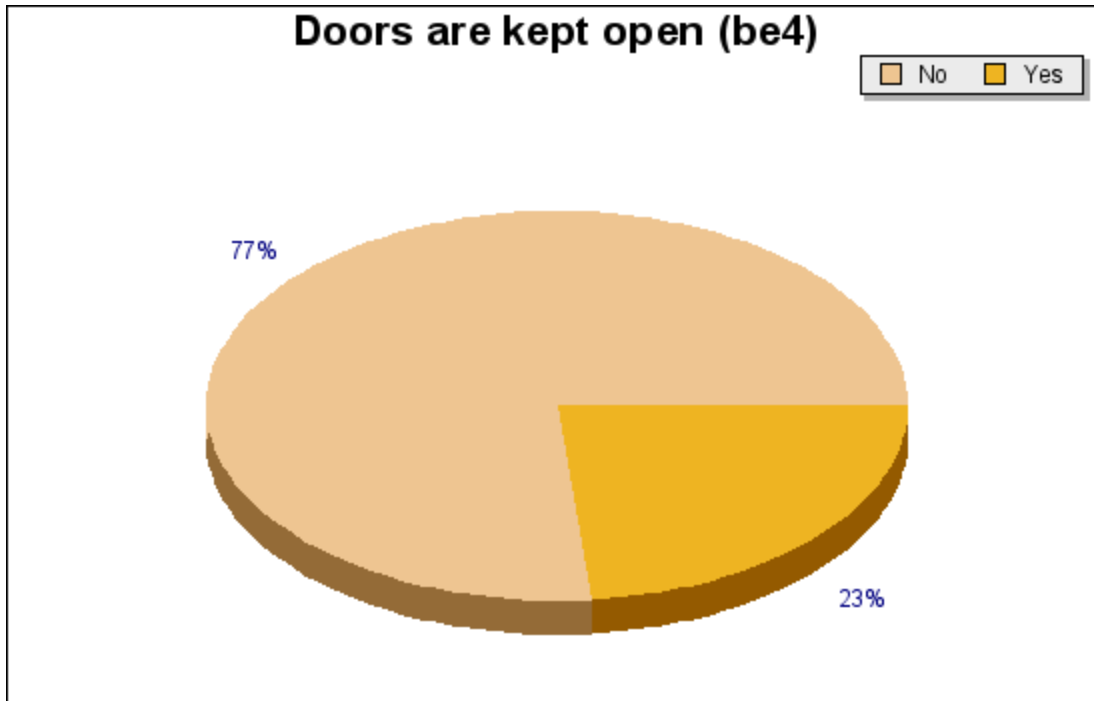
Building Envelope



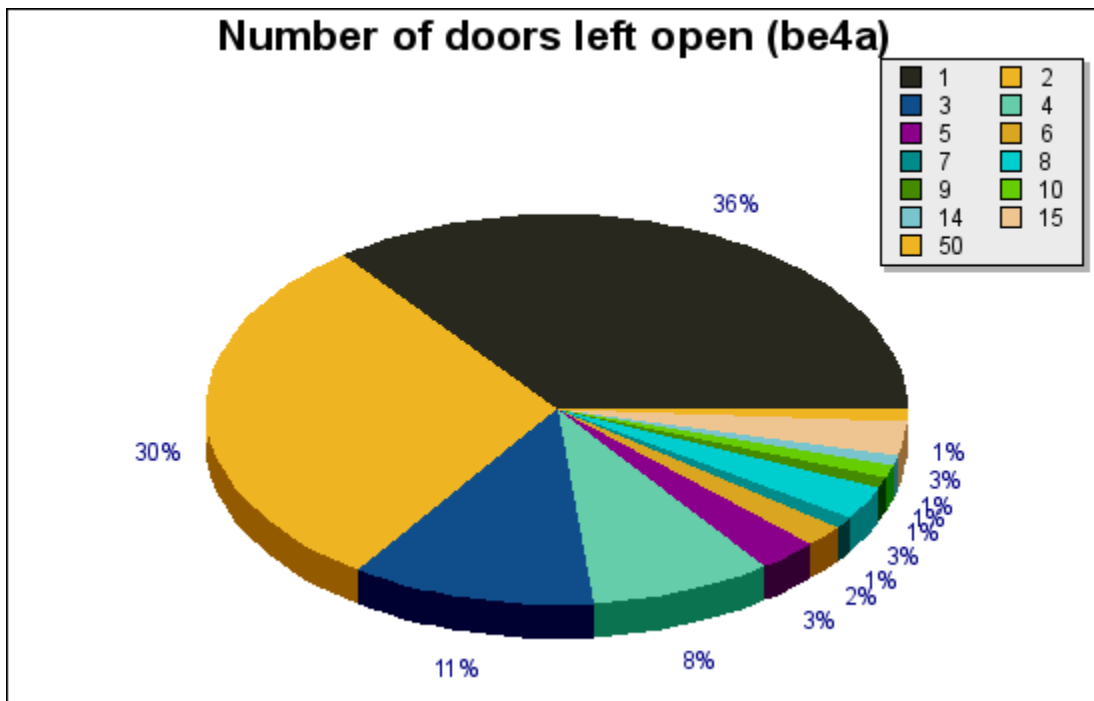
Question be2: Space has windows that open



Question be2b: Windows are opened regularly

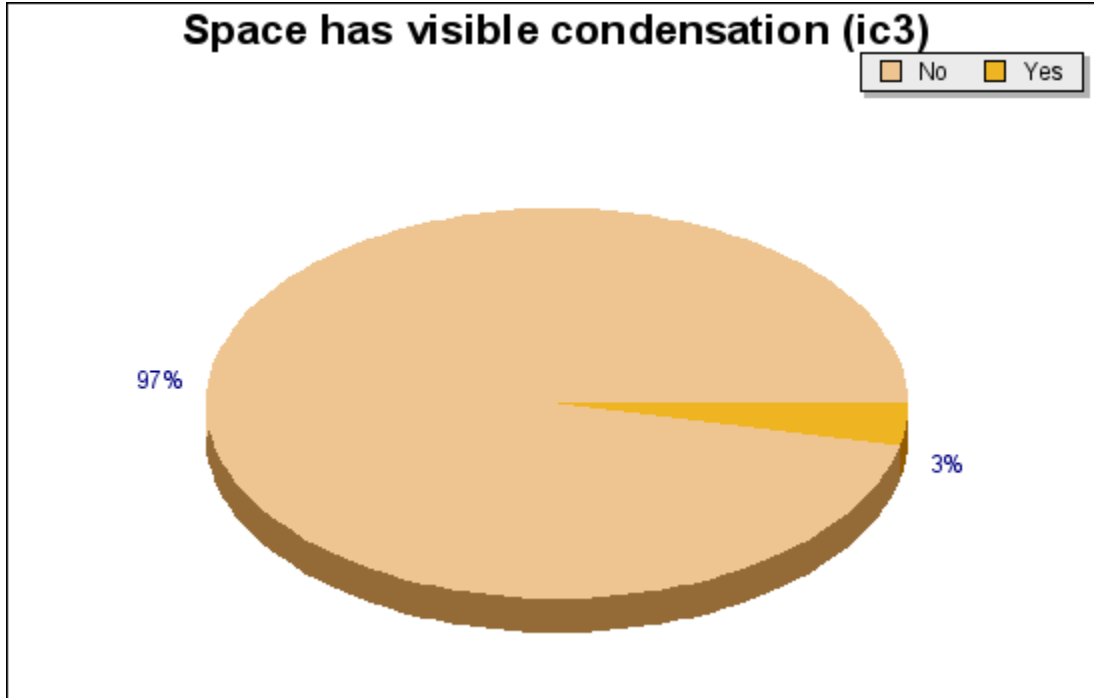


Question be4: Doors are kept open

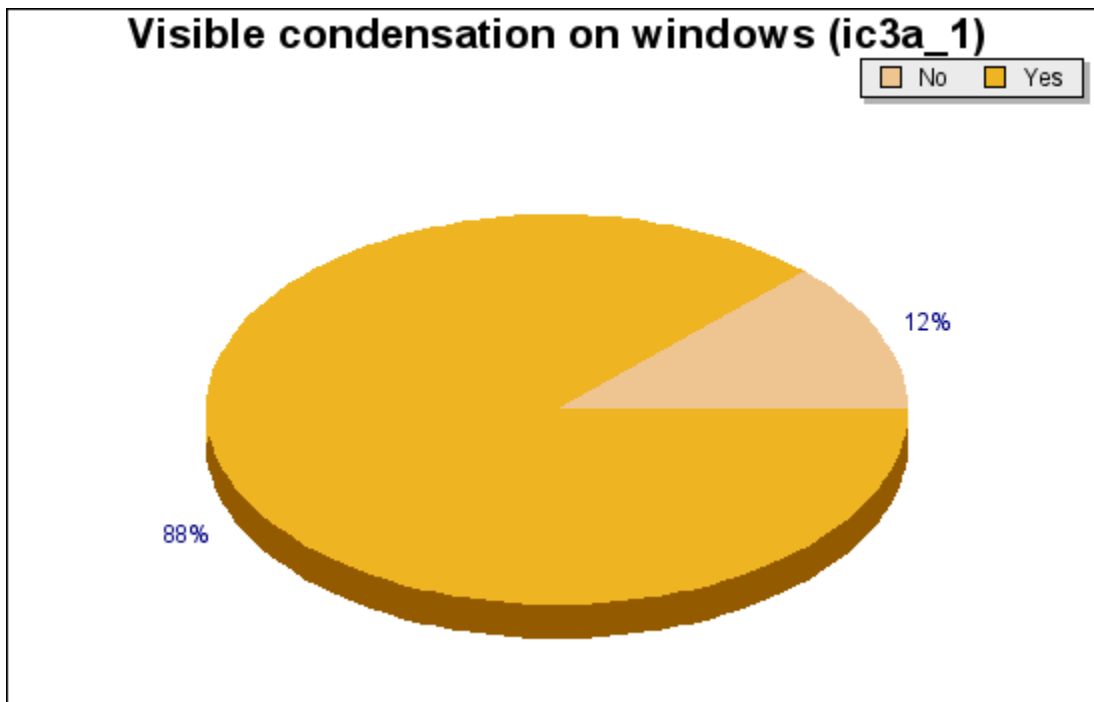


Question be4a: Number of doors left open

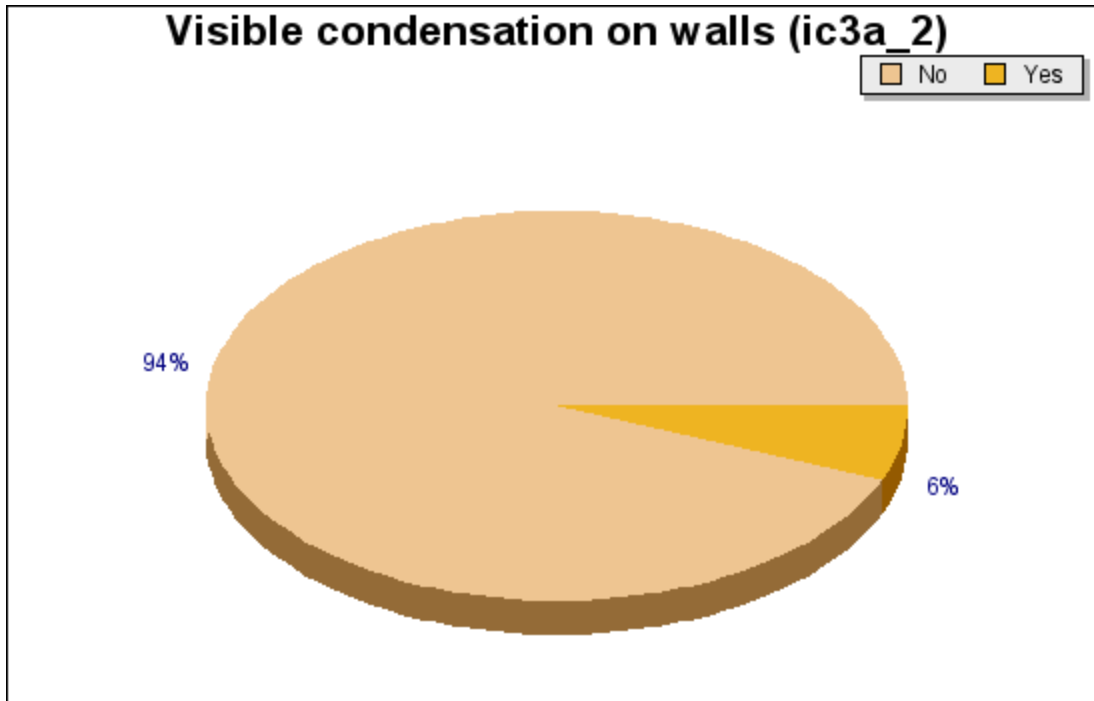
Building Contaminant Source Information



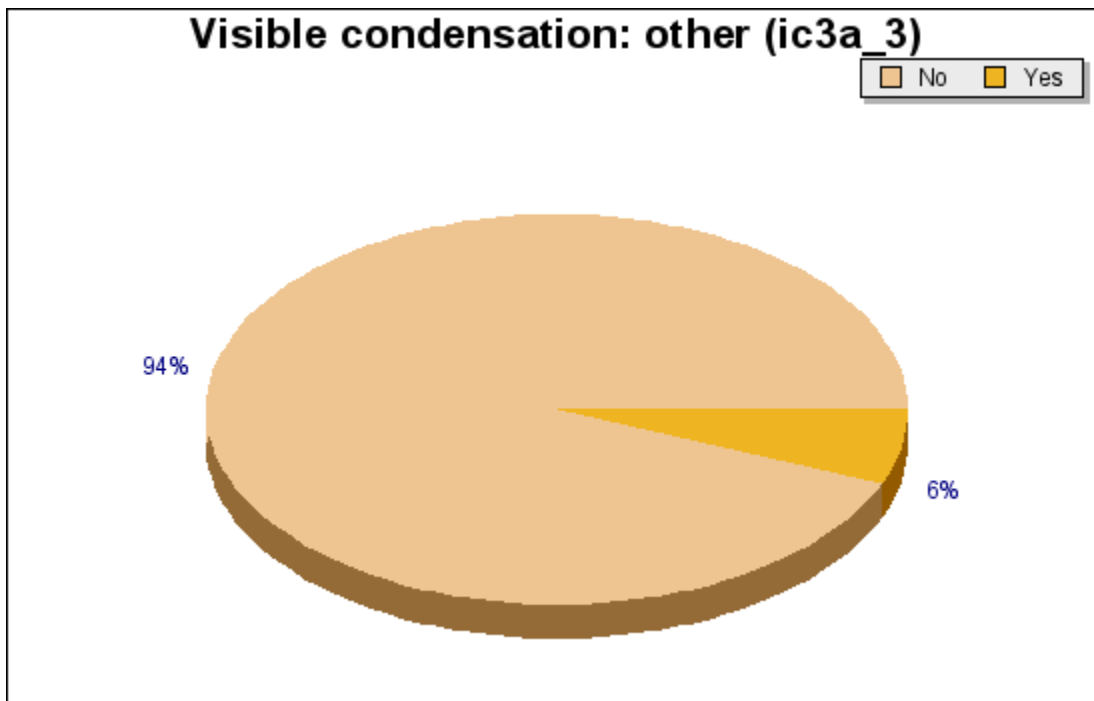
Question ic3: Space has visible condensation



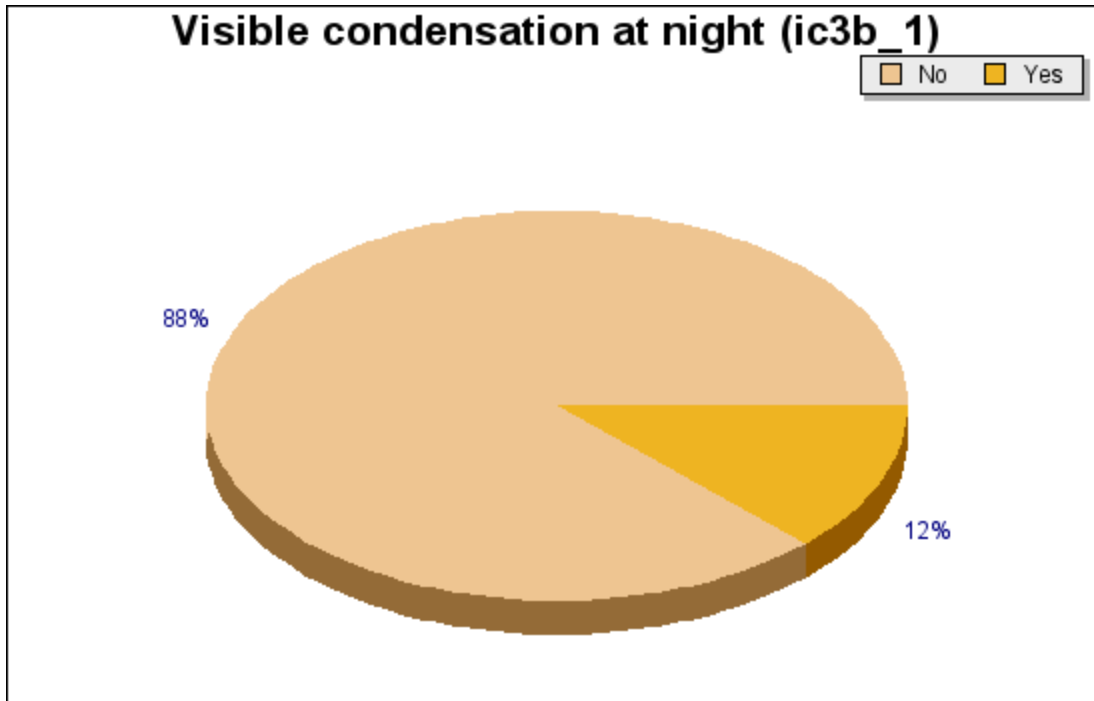
Question ic3a_1: Visible condensation on windows



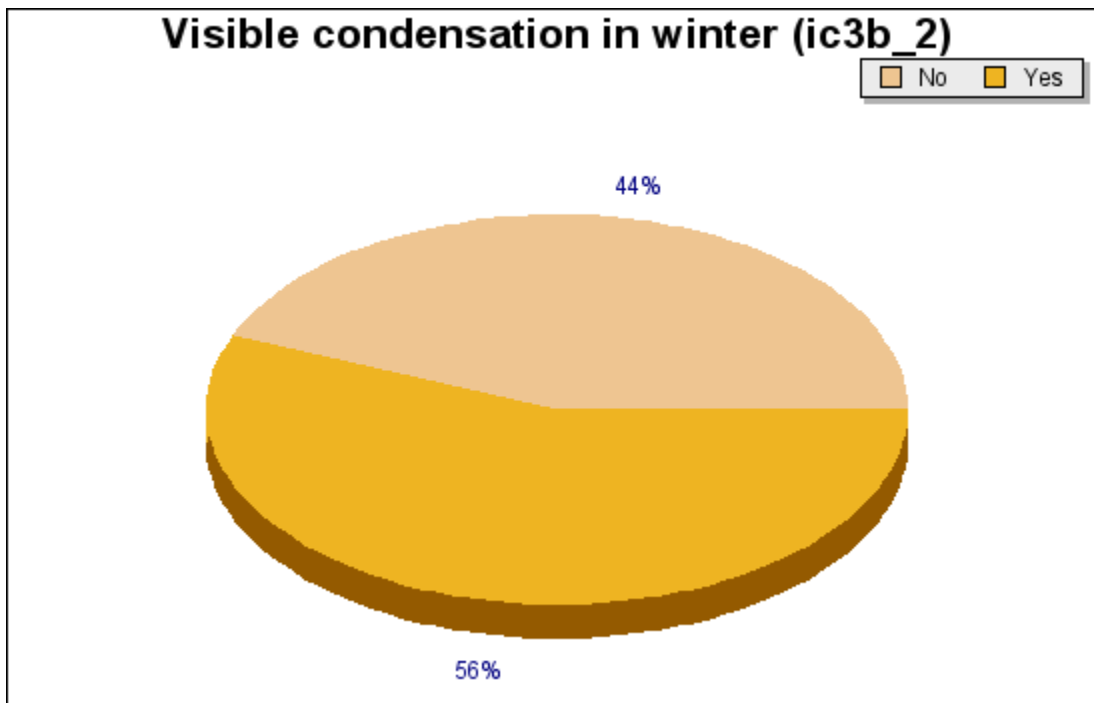
Question ic3a_2: Visible condensation on walls



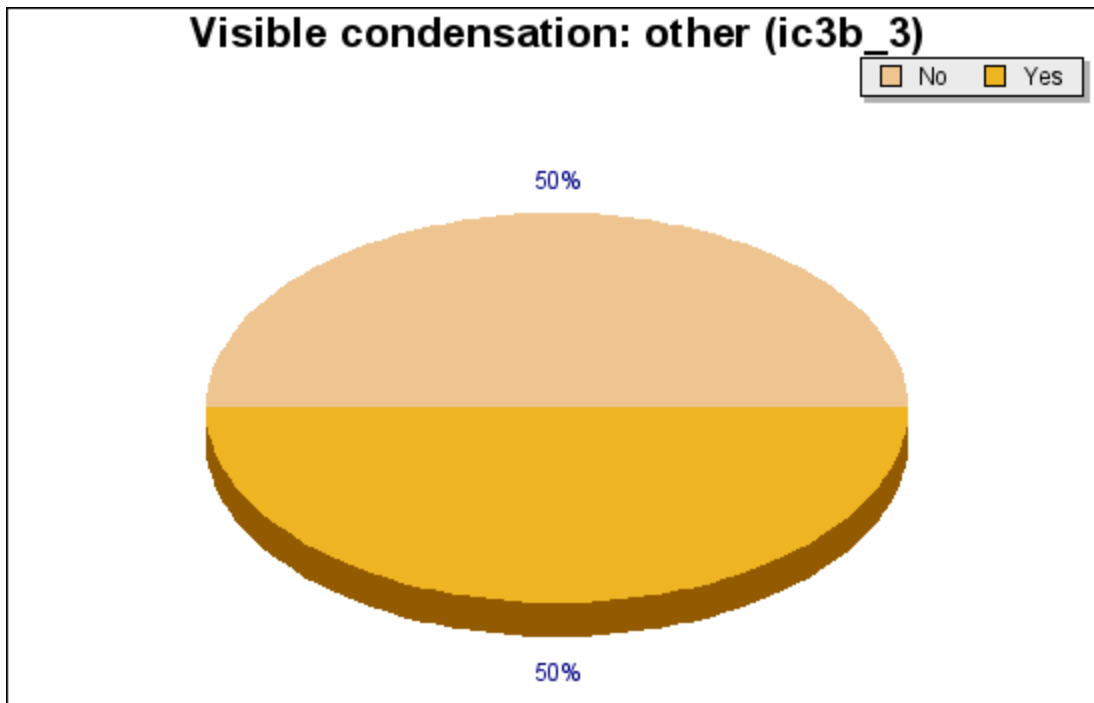
Question ic3a_3: Visible condensation: other



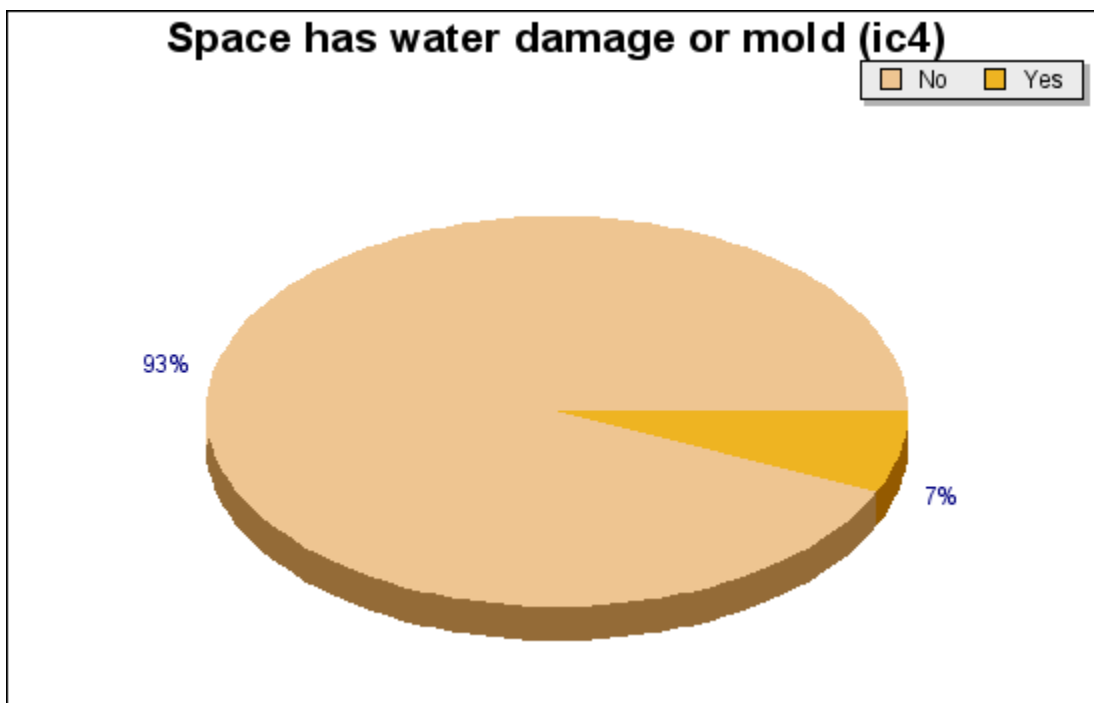
Question ic3b_1: Visible condensation at night



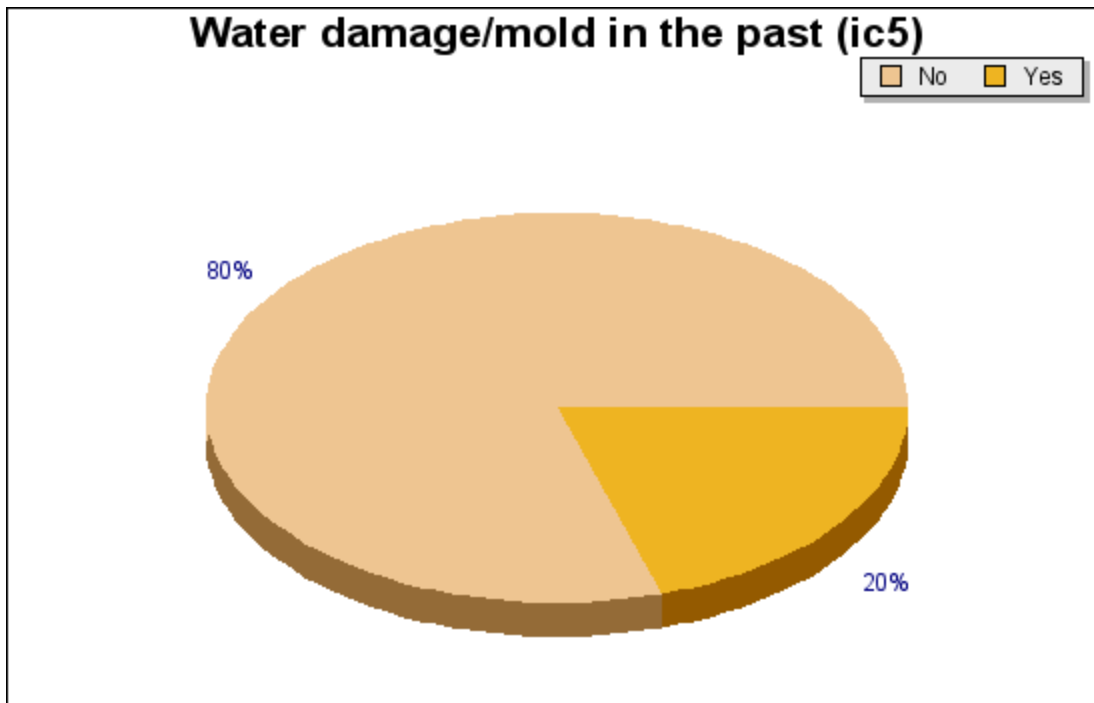
Question ic3b_2: Visible condensation in winter



Question ic3b_3: Visible condensation: other

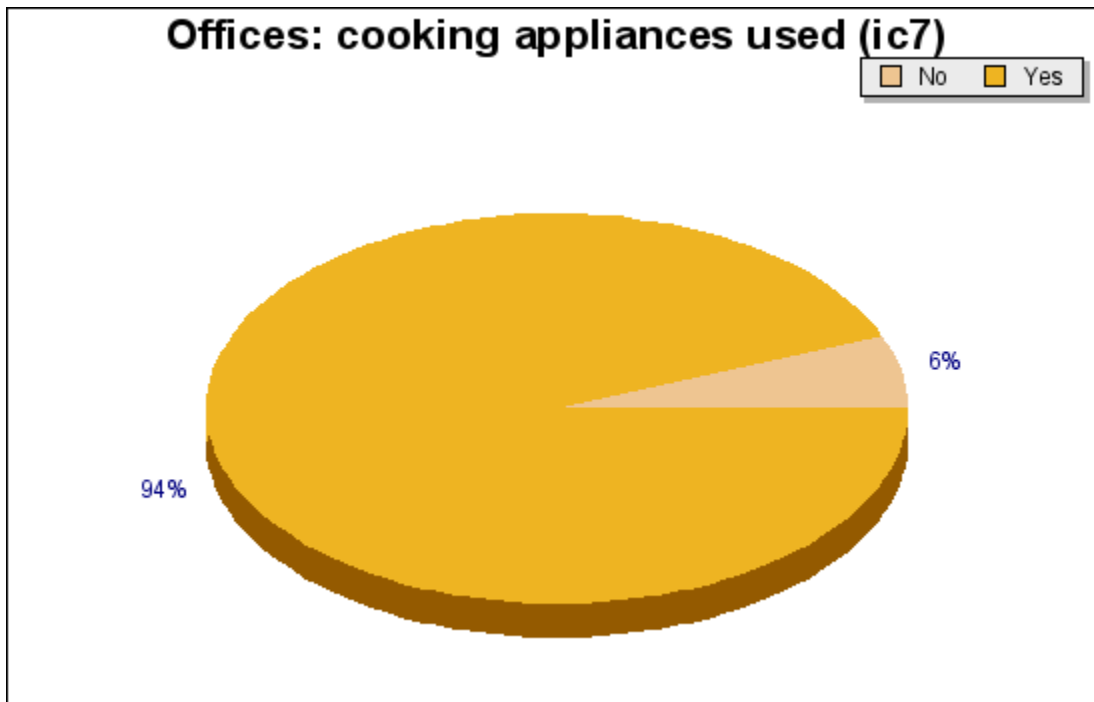


Question ic4: Space has water damage or mold



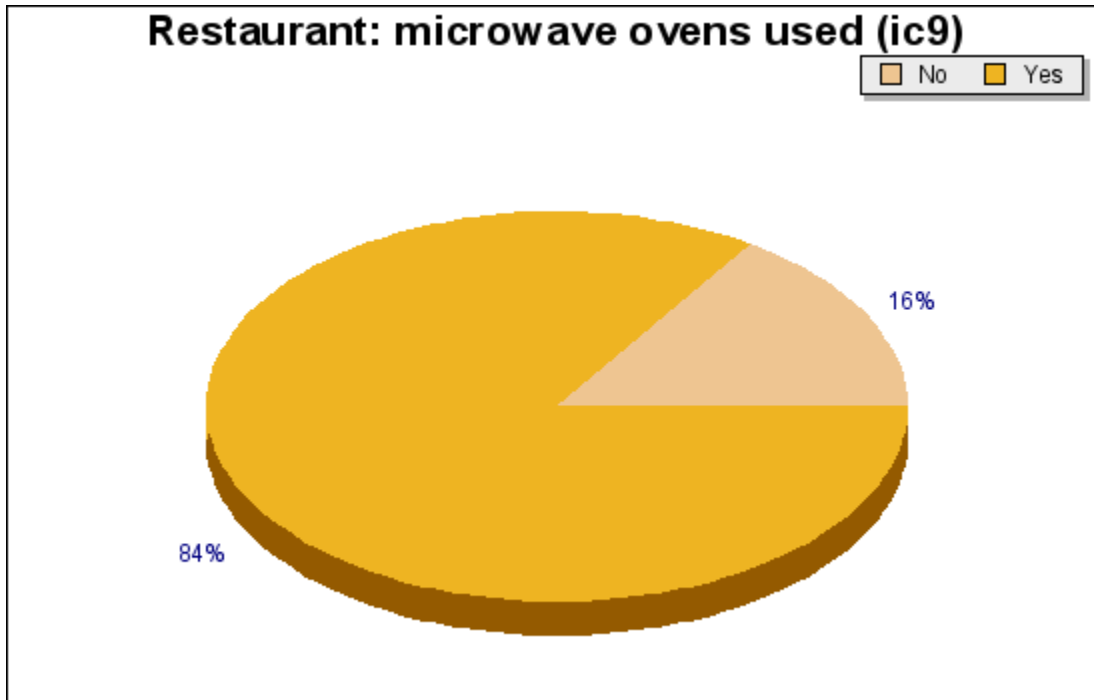
Question ic5: Water damage/mold in the past

Cooking Appliances: Non-medical Offices

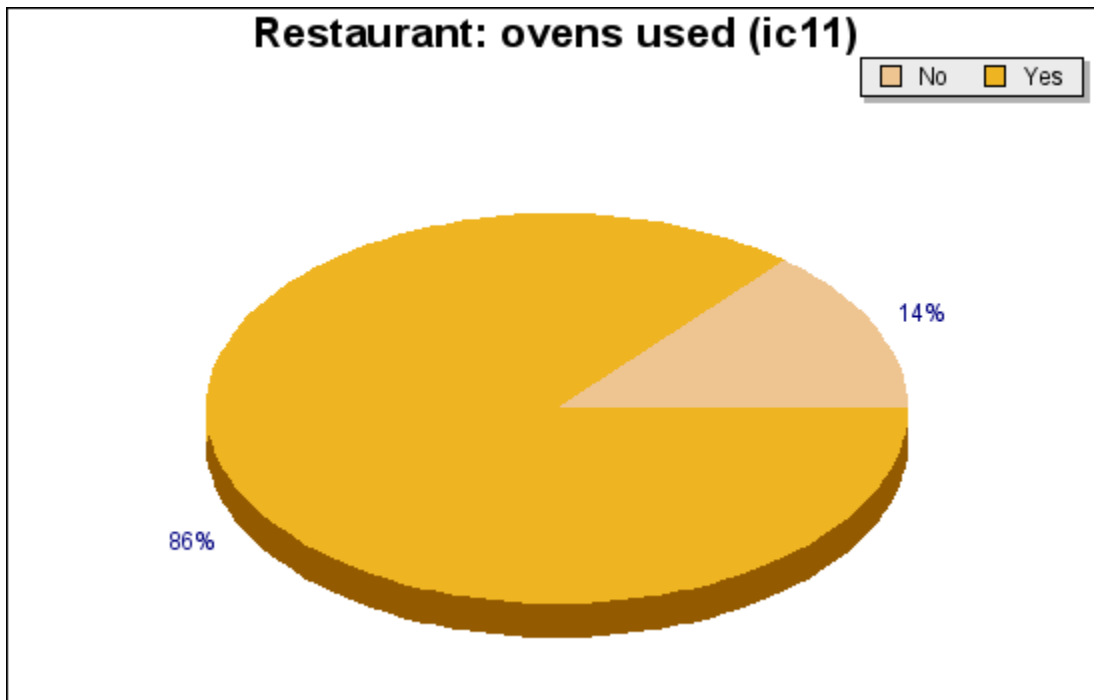


Question ic7: Offices: cooking appliances used

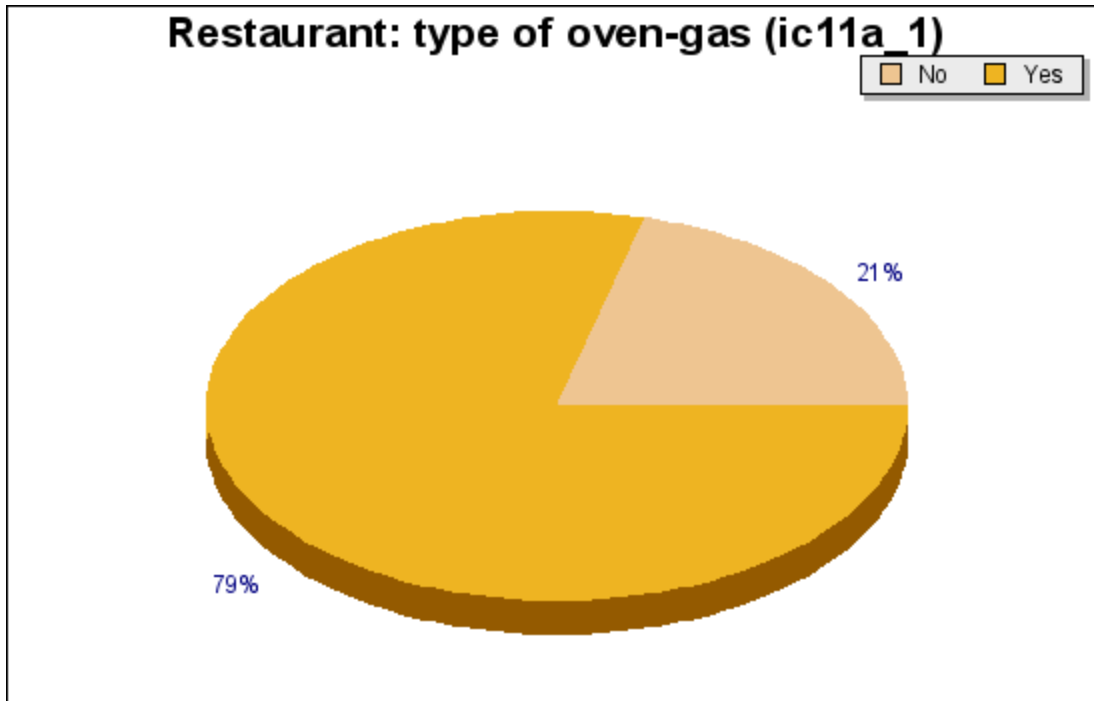
Cooking Appliances: Restaurants



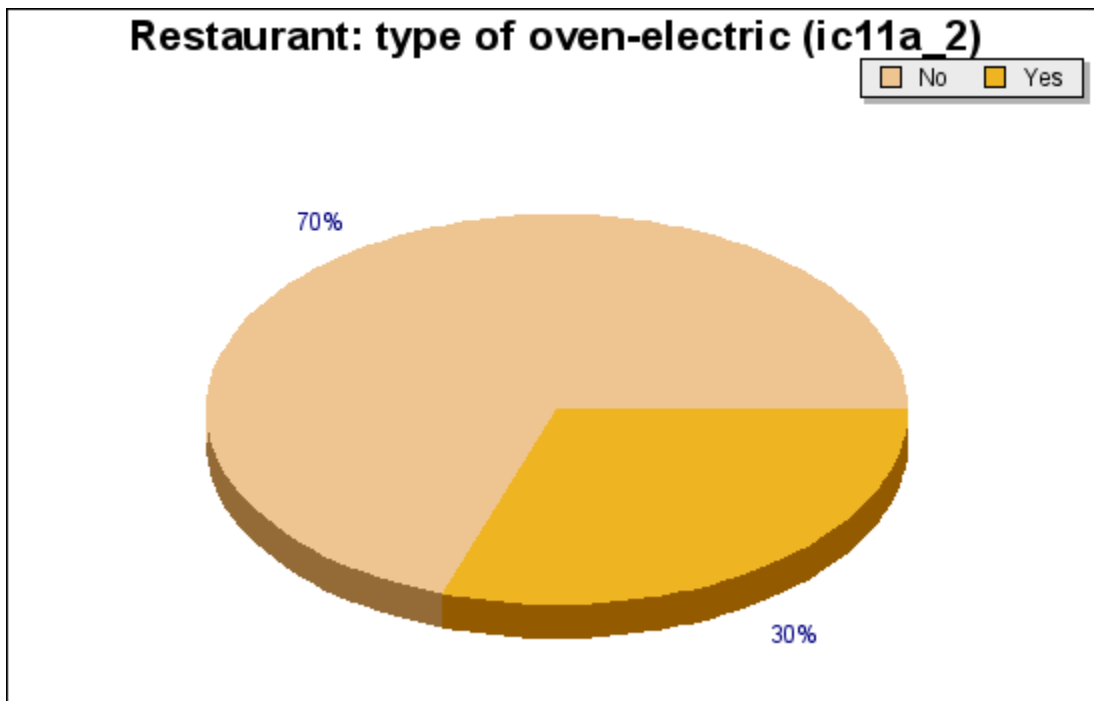
Question ic9: Restaurant: microwave ovens used



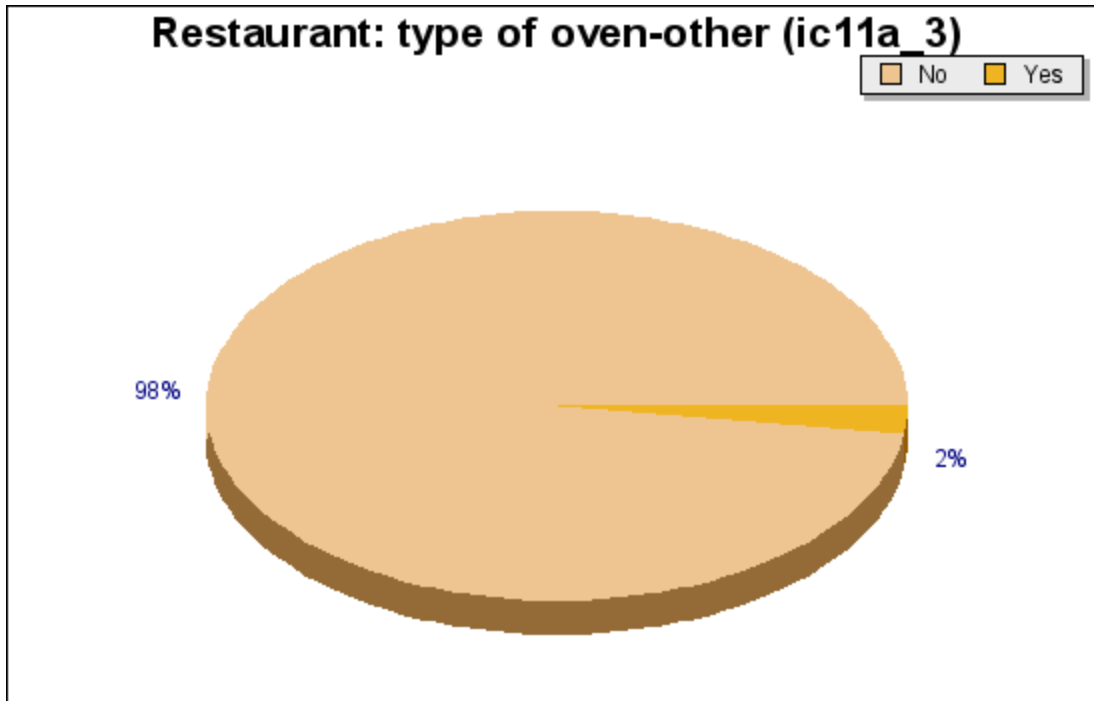
Question ic11: Restaurant: ovens used



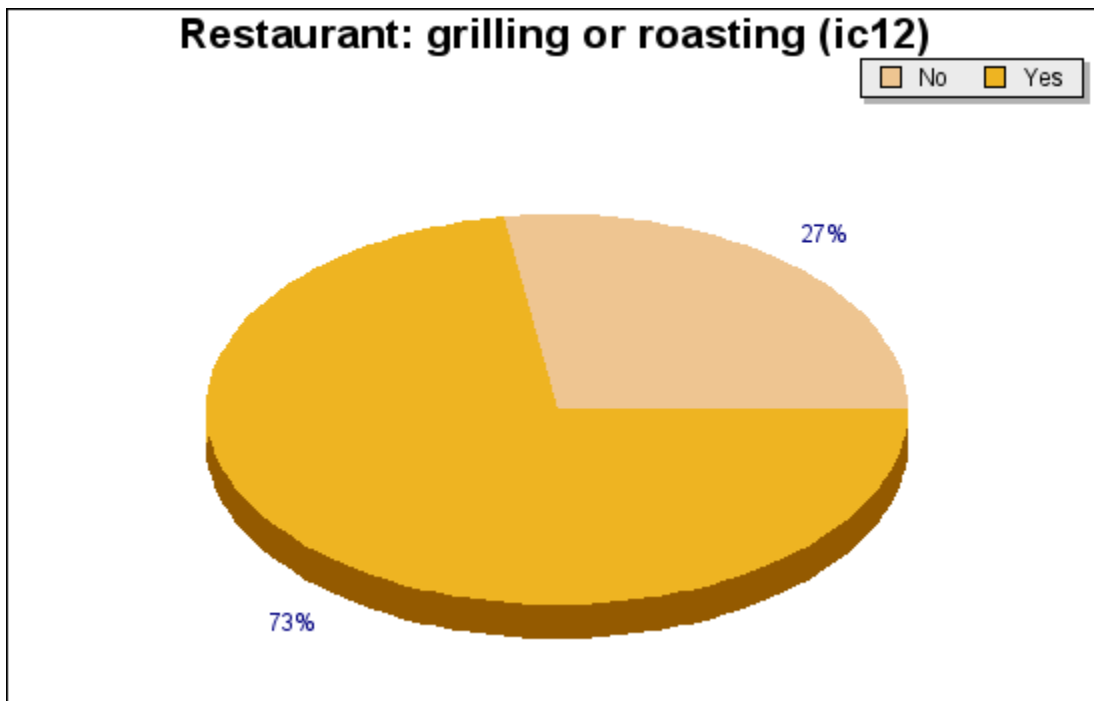
Question ic11a_1: Restaurant: type of oven-gas



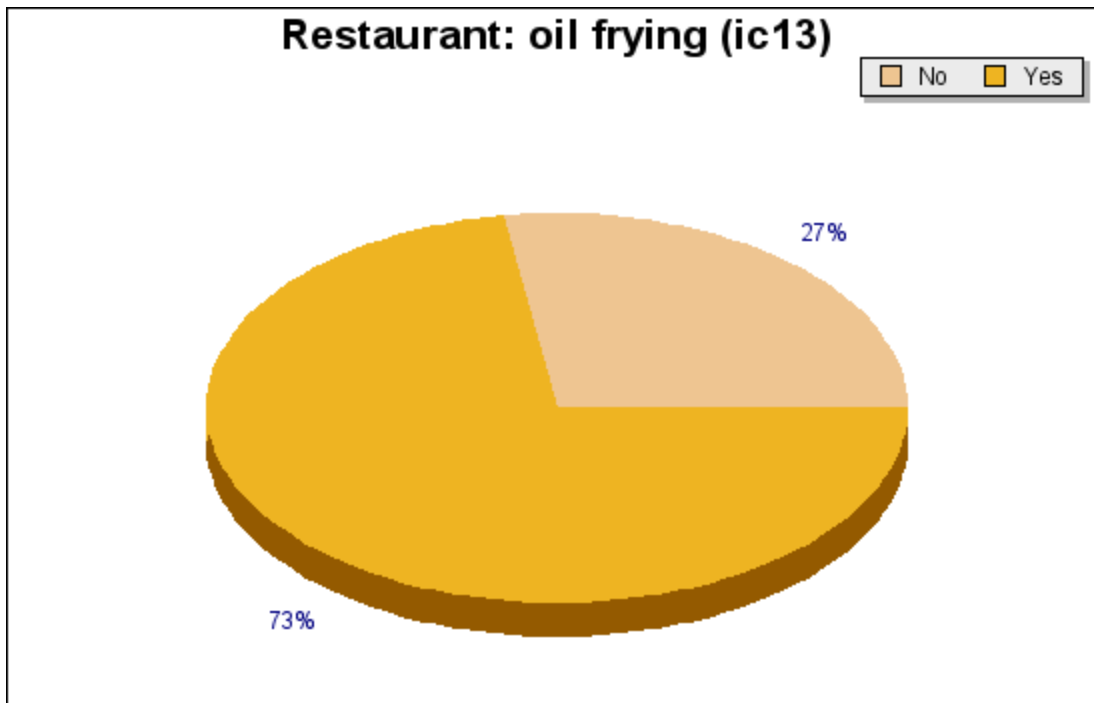
Question ic11a_2: Restaurant: type of oven-electric



Question ic11a_3: Restaurant: type of oven-other



Question ic12: Restaurant: grilling or roasting



Question ic13: Restaurant: oil frying

Cooking Appliances: Food Stores

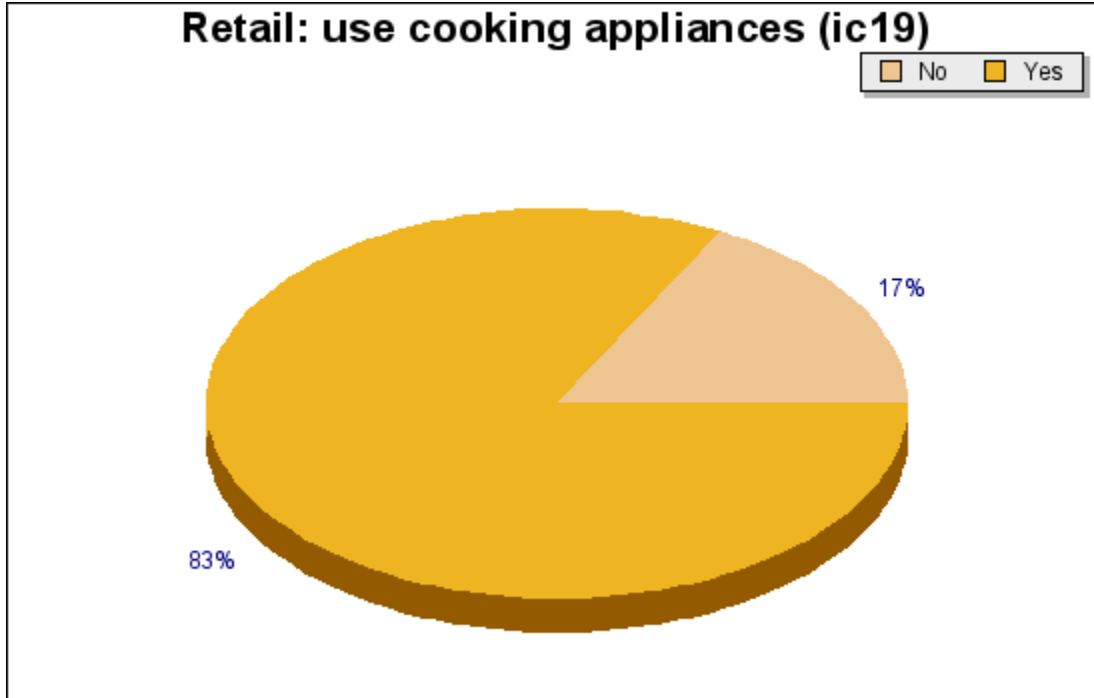


Question ic15: Food store: use cooking appliances

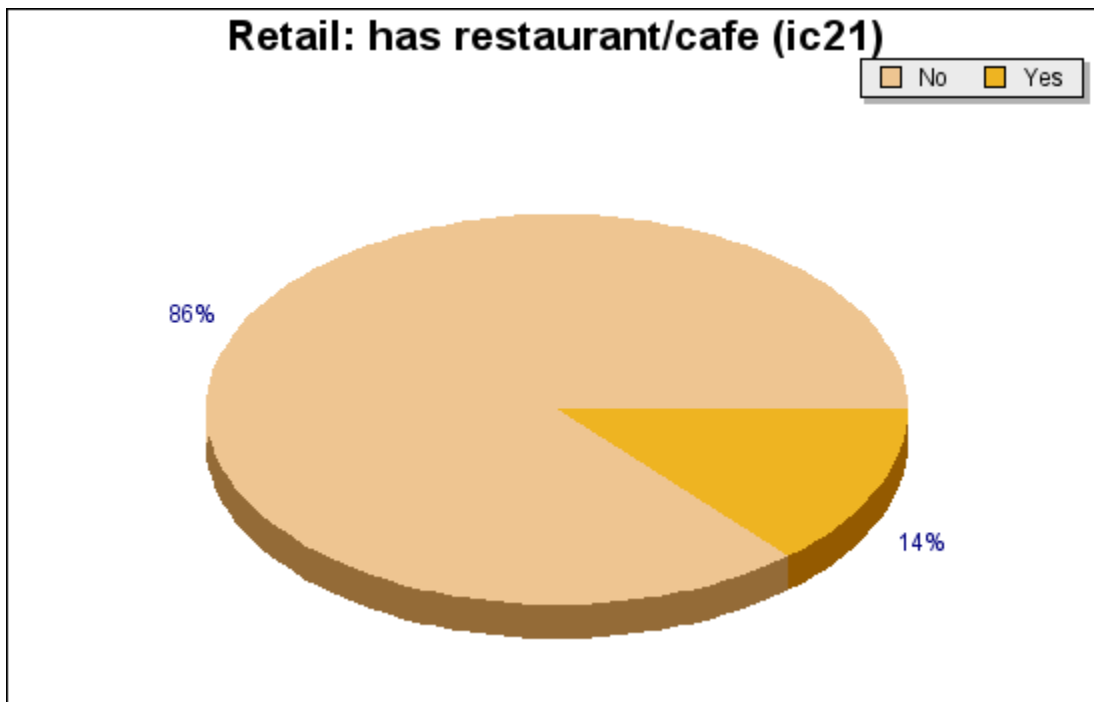


Question ic17: Food store: film processing

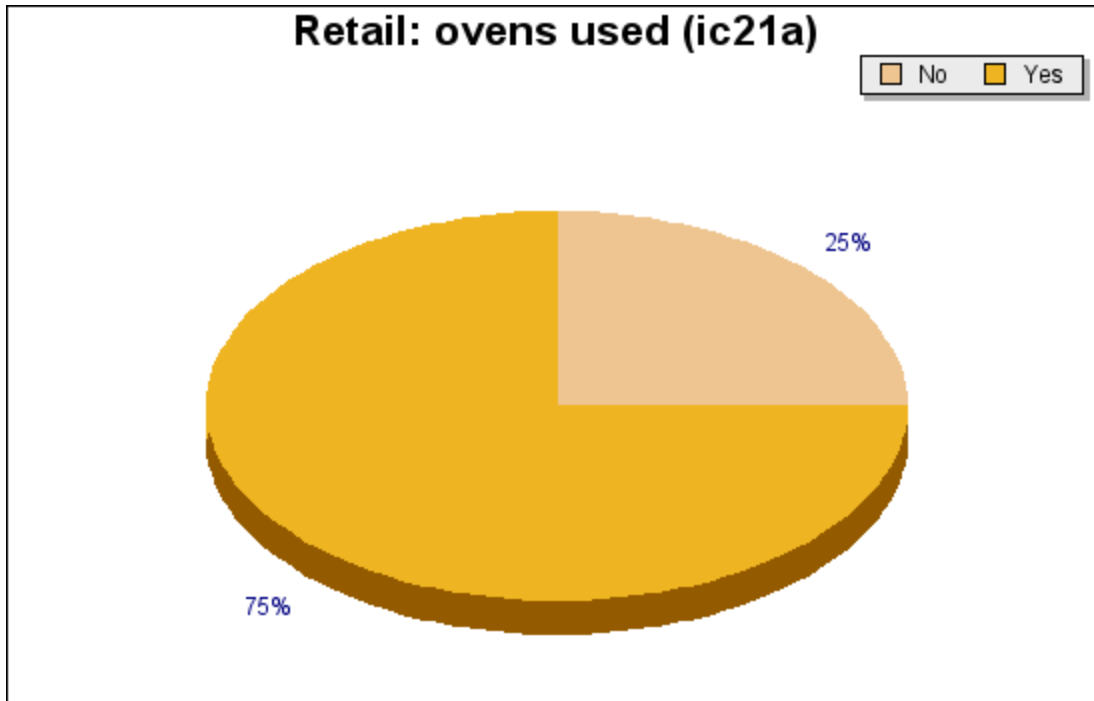
Cooking Appliances: Retail Stores Type



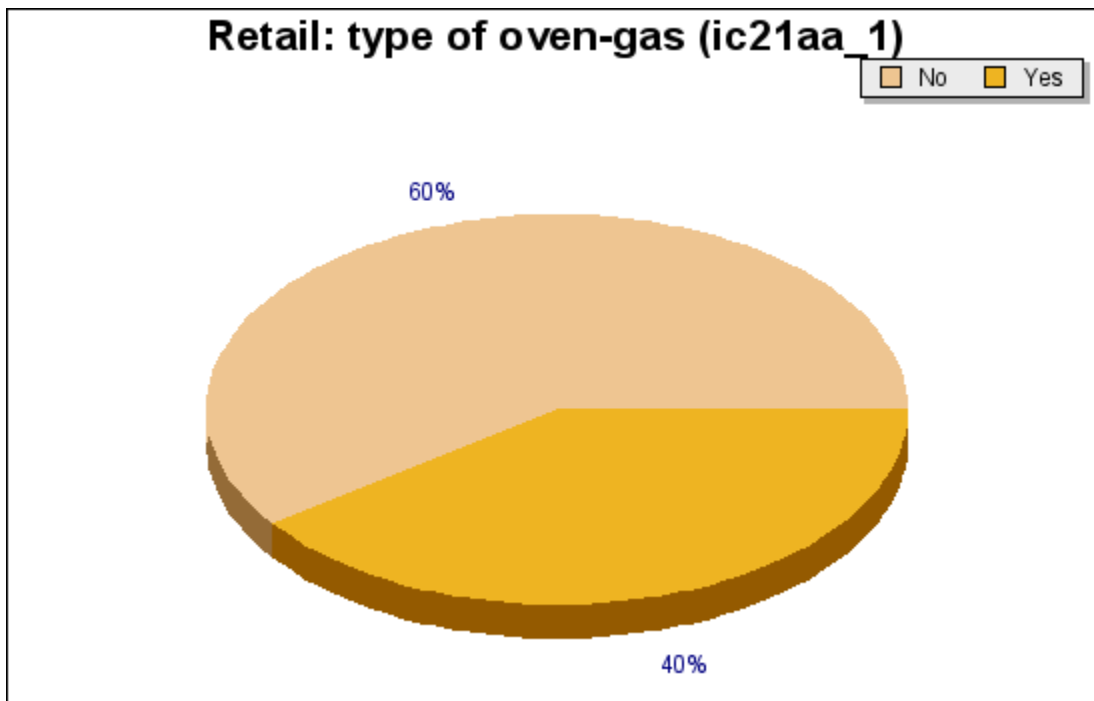
Question ic19: Retail: use cooking appliances



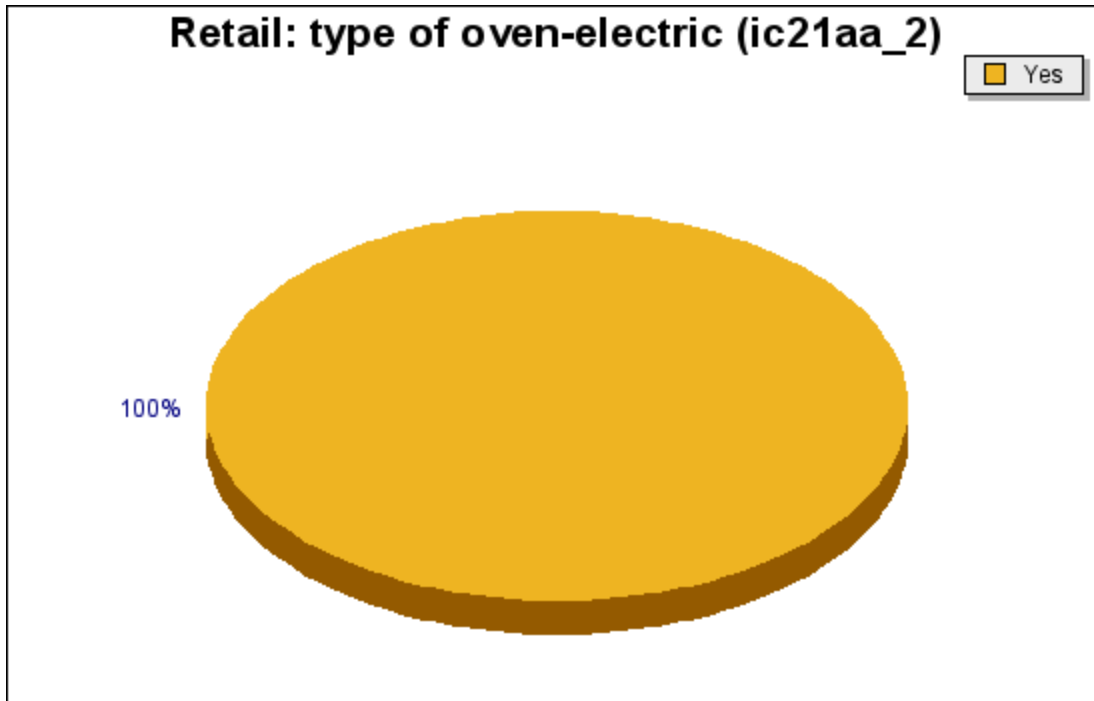
Question ic21: Retail: has restaurant/cafe



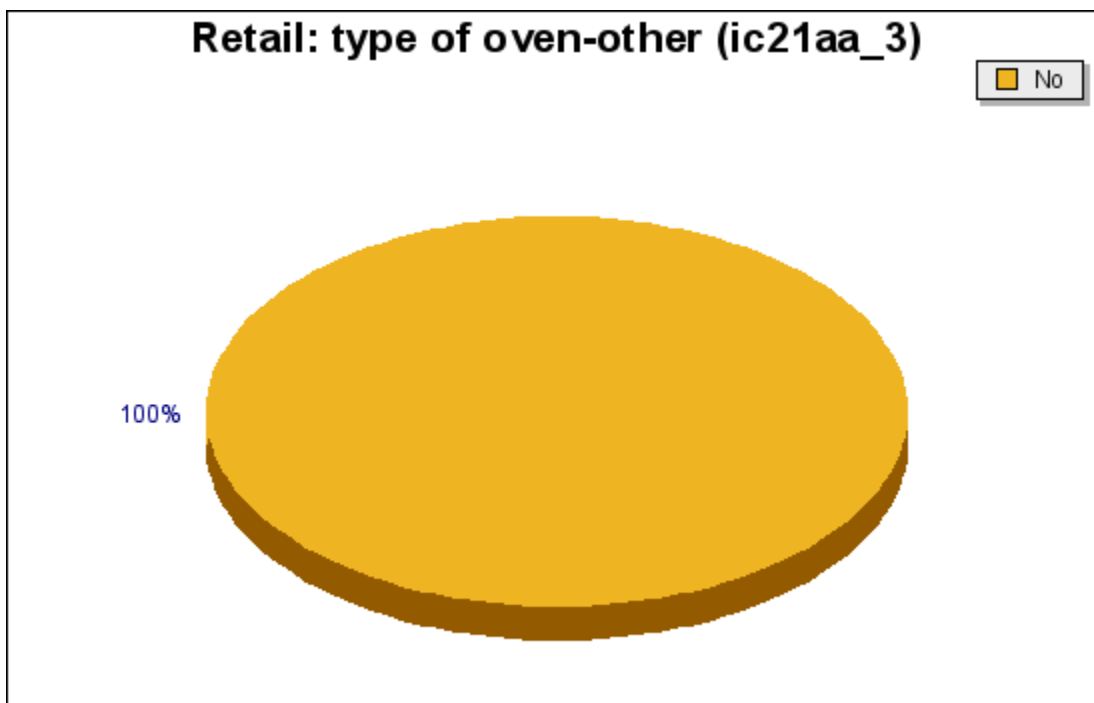
Question ic21a: Retail: ovens used



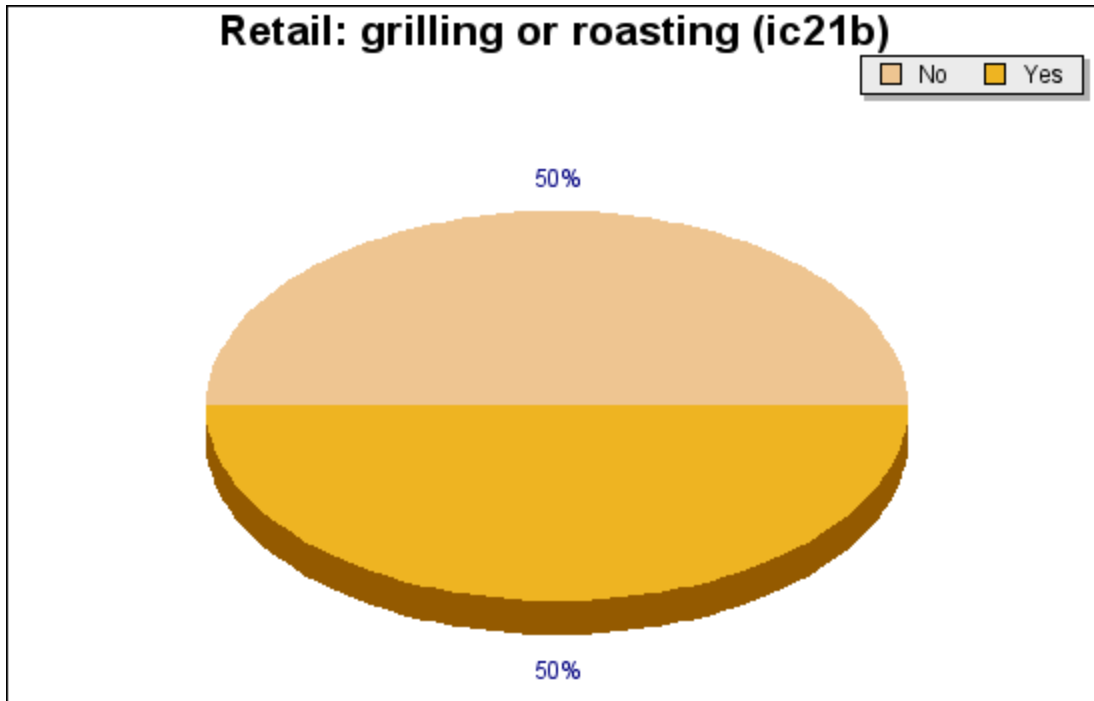
Question ic21aa_1: Retail: type of oven-gas



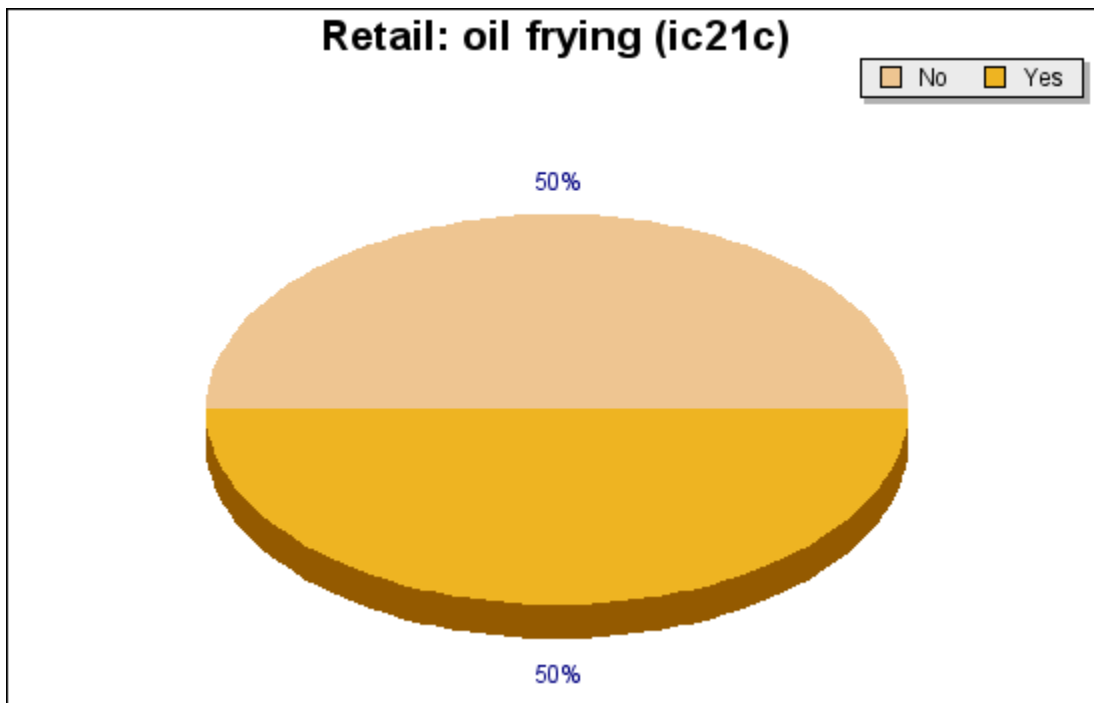
Question ic21aa_2: Retail: type of oven-electric



Question ic21aa_3: Retail: type of oven-other

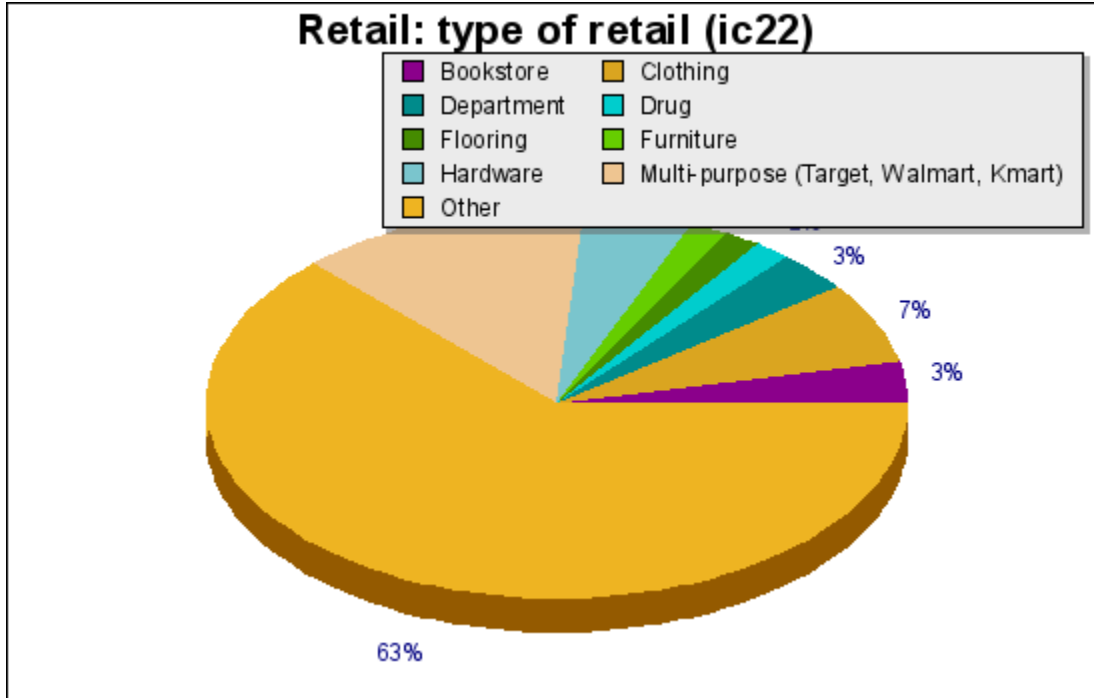


Question ic21b: Retail: grilling or roasting

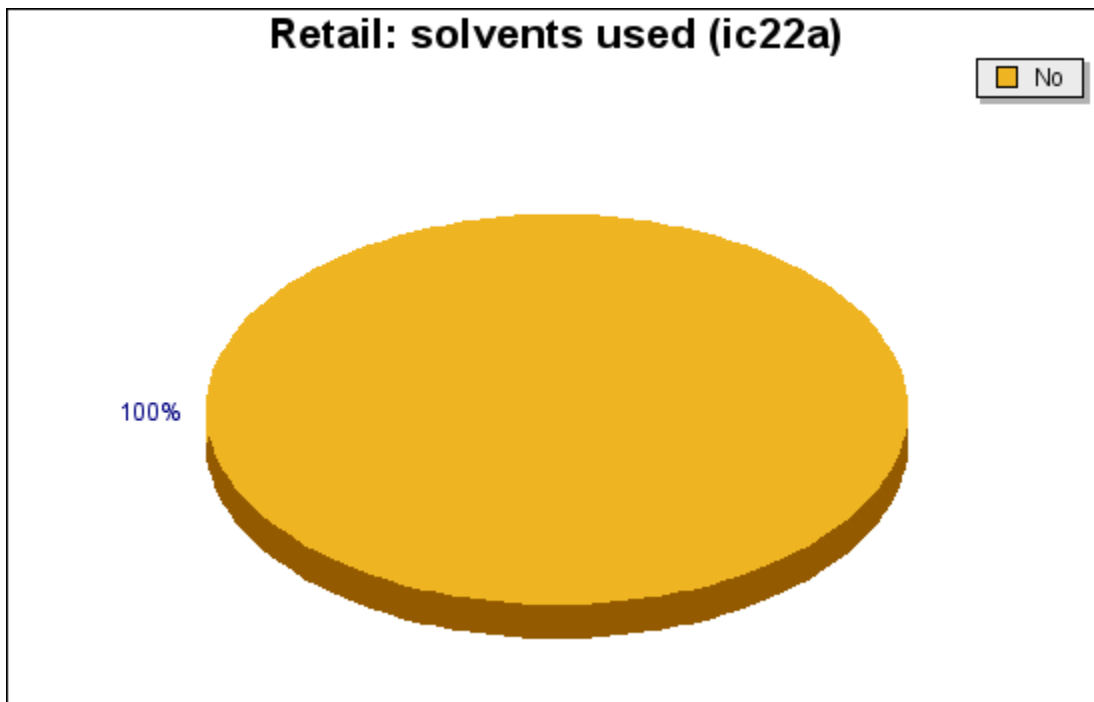


Question ic21c: Retail: oil frying

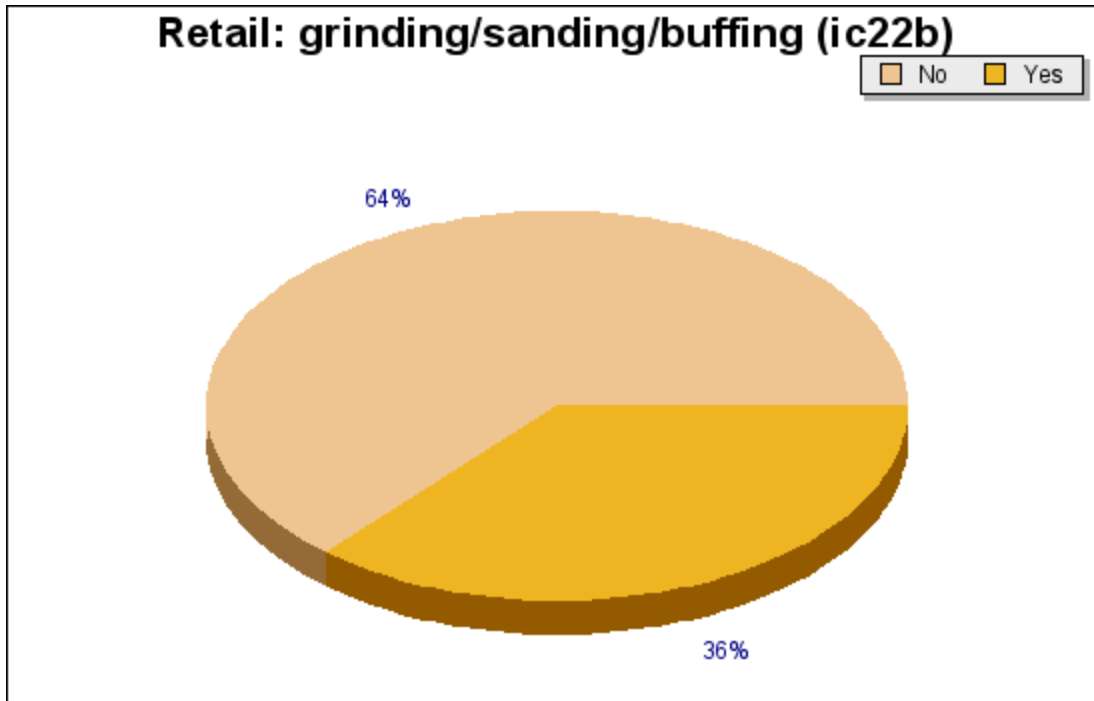
Type Of Retail Stores



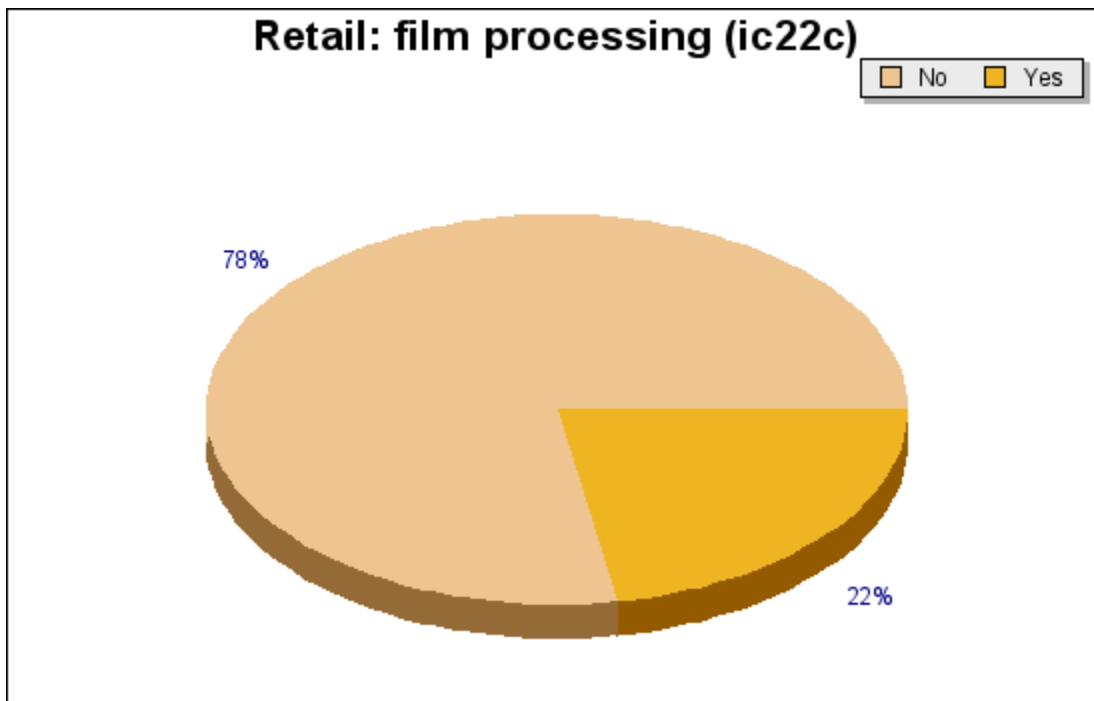
Question ic22: Retail: type of retail



Question ic22a: Retail: solvents used



Question ic22b: Retail: grinding/sanding/buffing

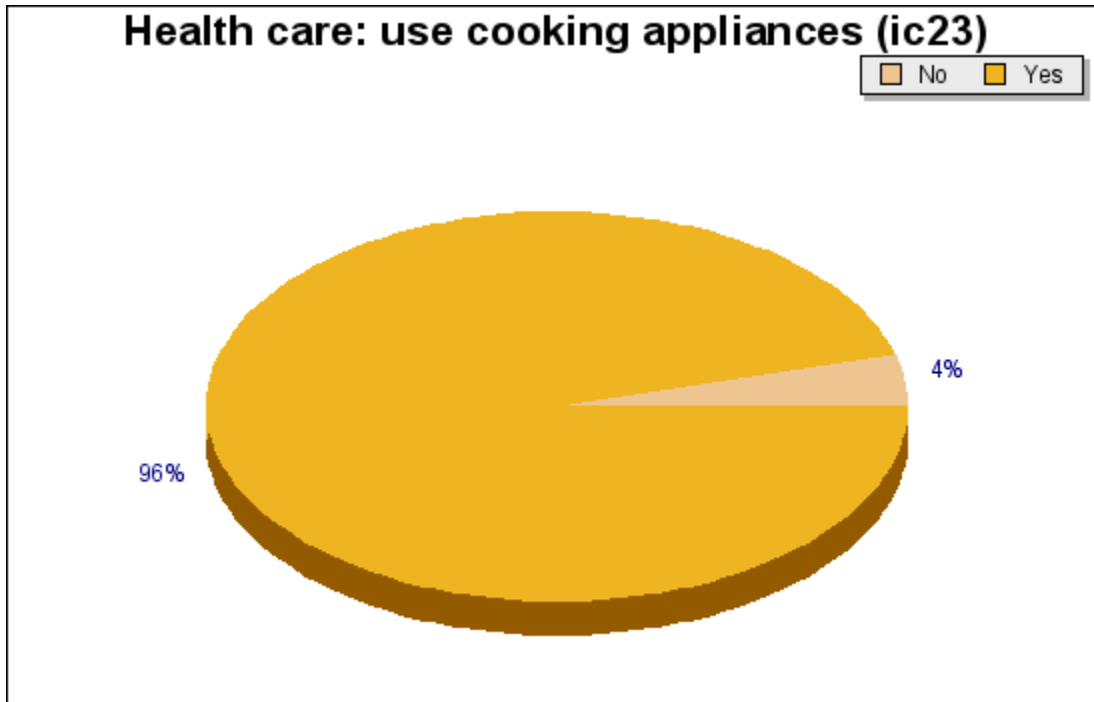


Question ic22c: Retail: film processing

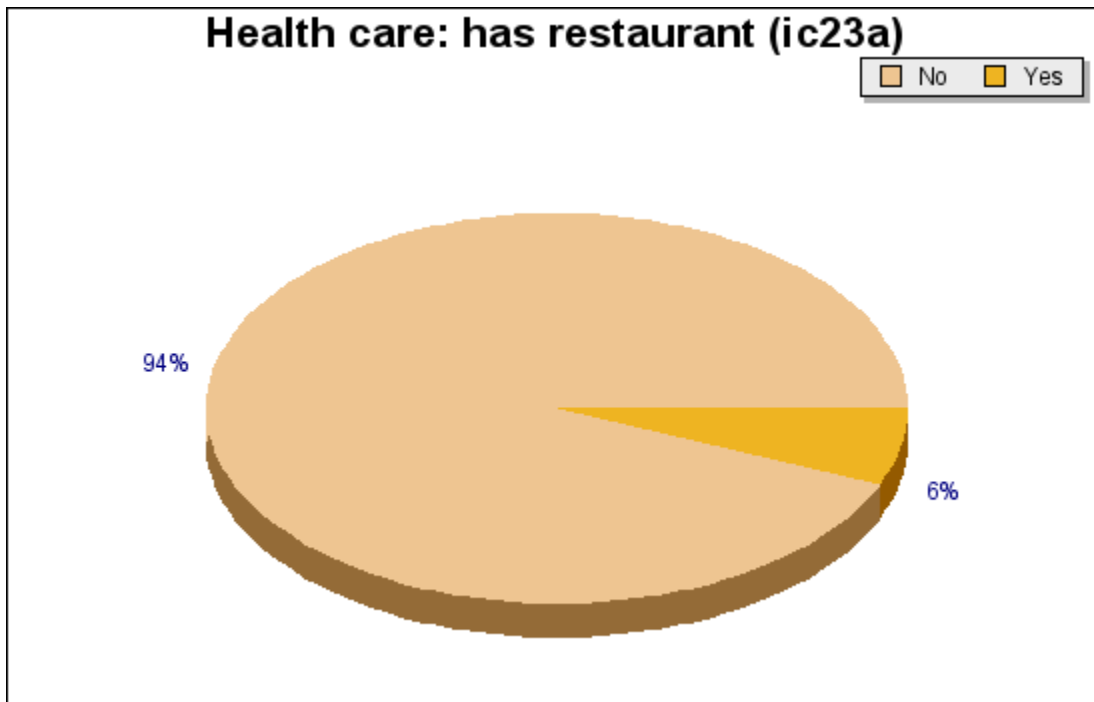


Question ic22d: Retail: tires stored

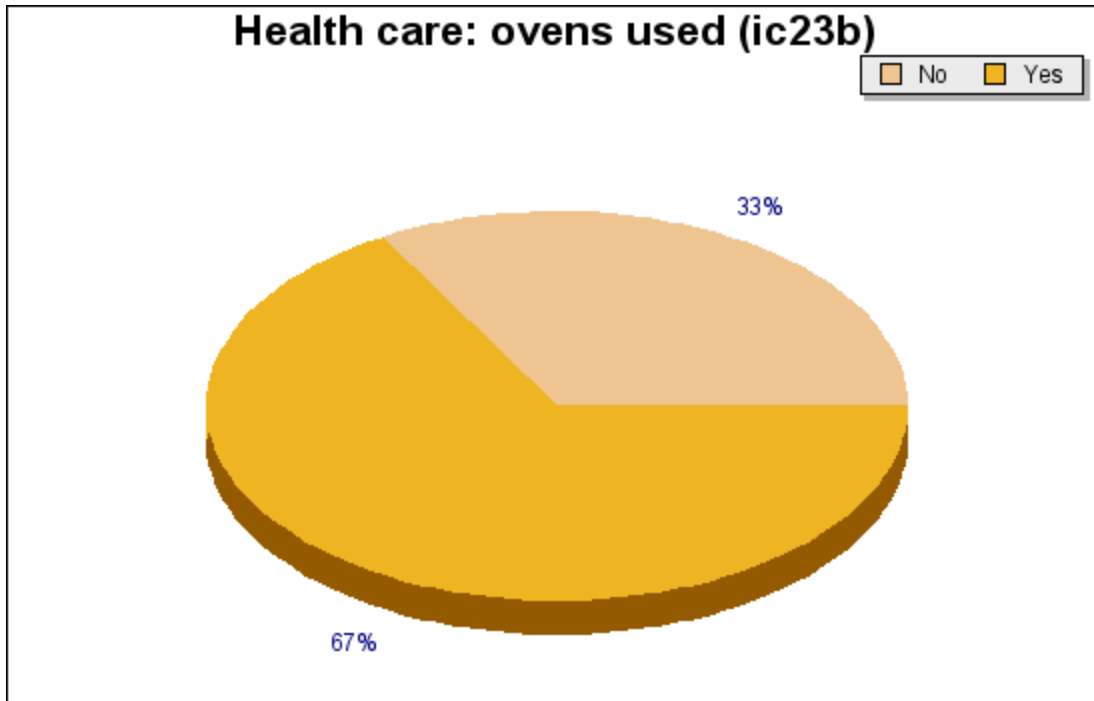
Cooking Appliances: Health-care Offices



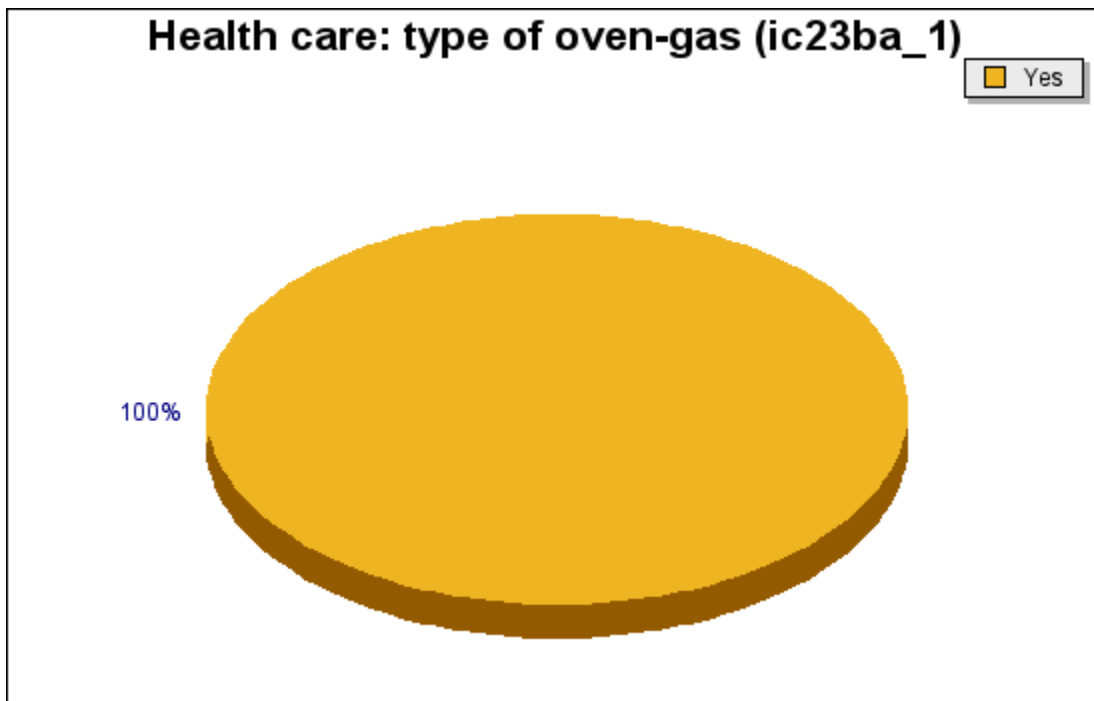
Question ic23: Health care: use cooking appliances



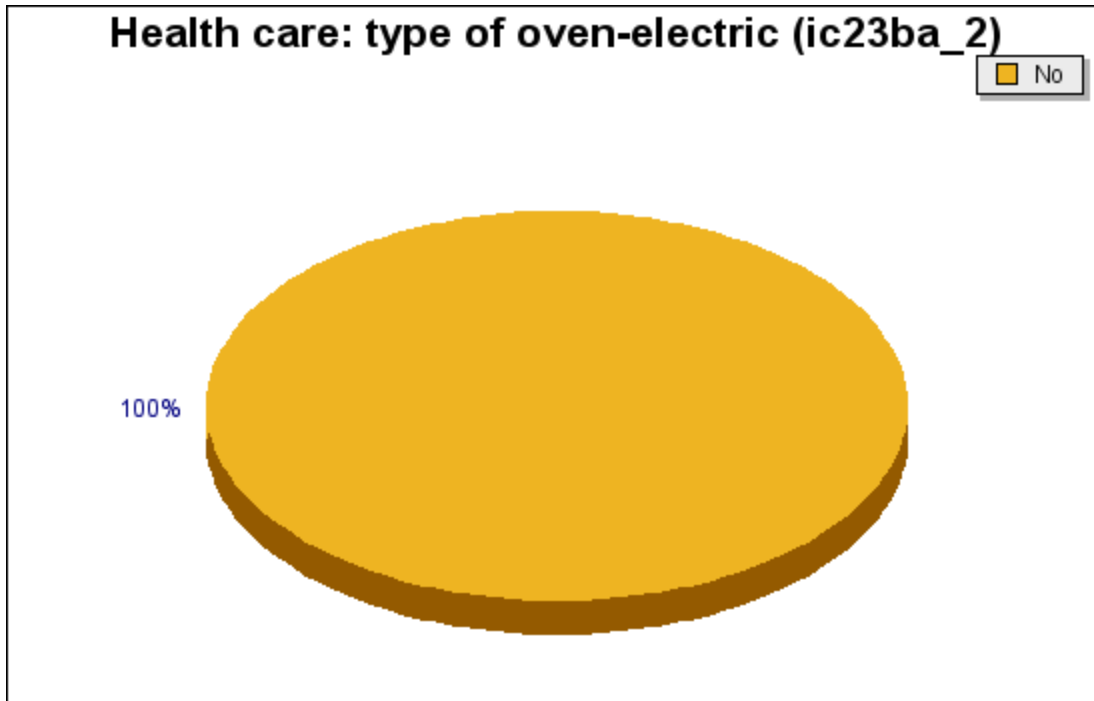
Question ic23a: Health care: has restaurant



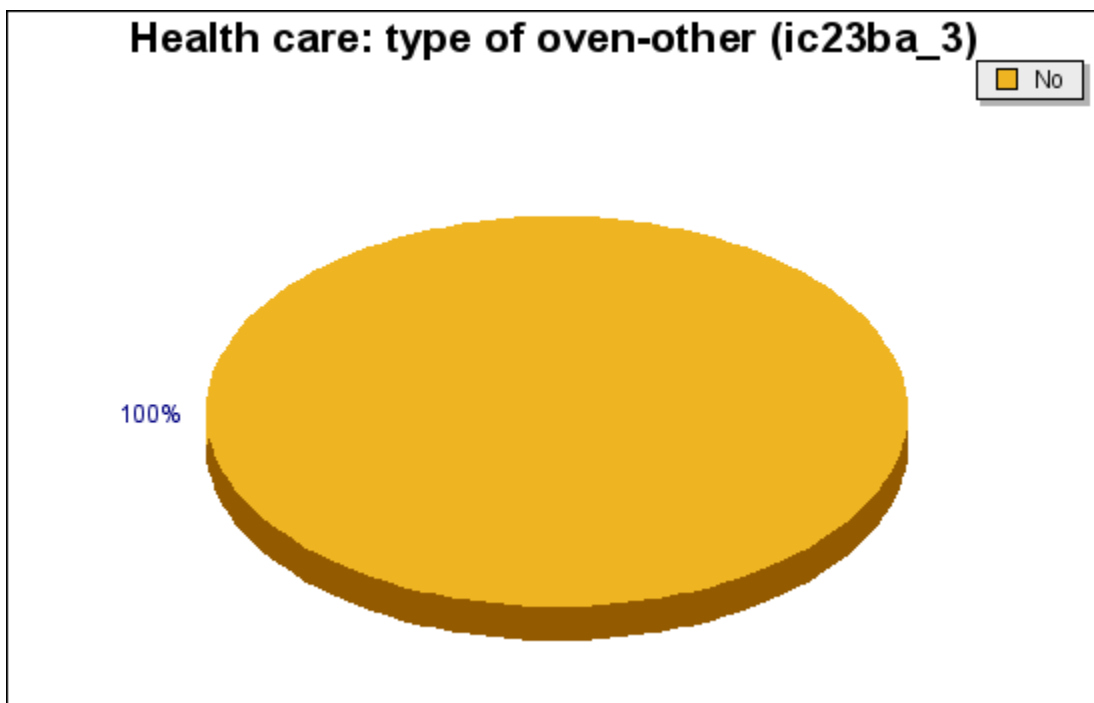
Question ic23b: Health care: ovens used



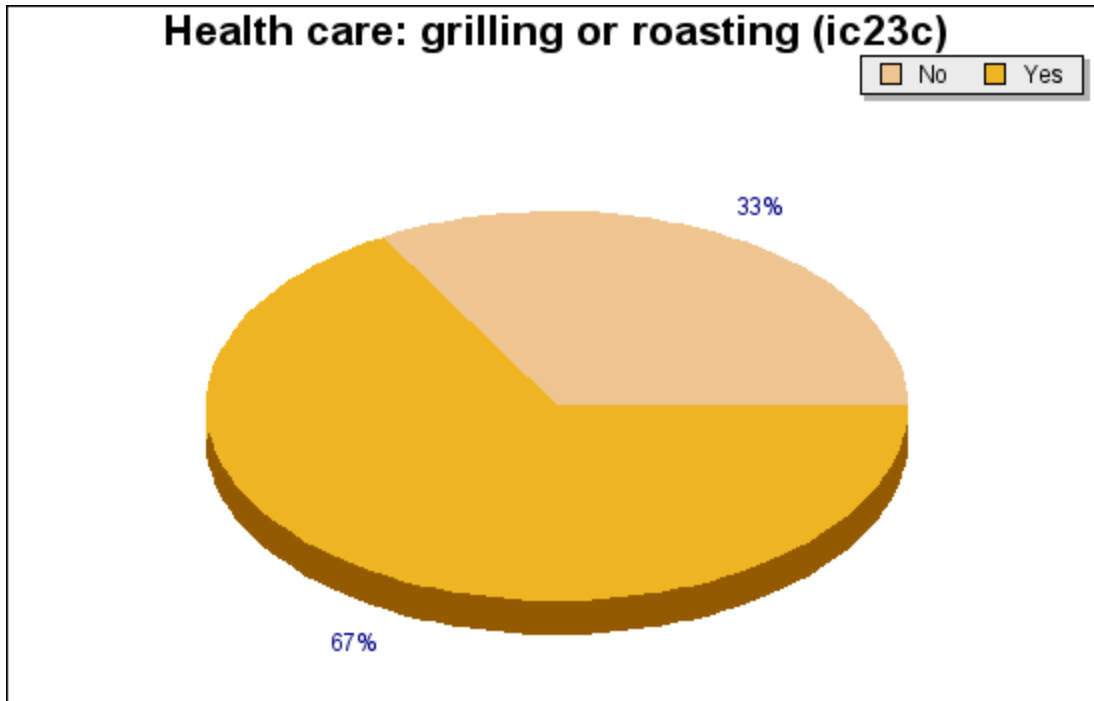
Question ic23ba_1: Health care: type of oven-gas



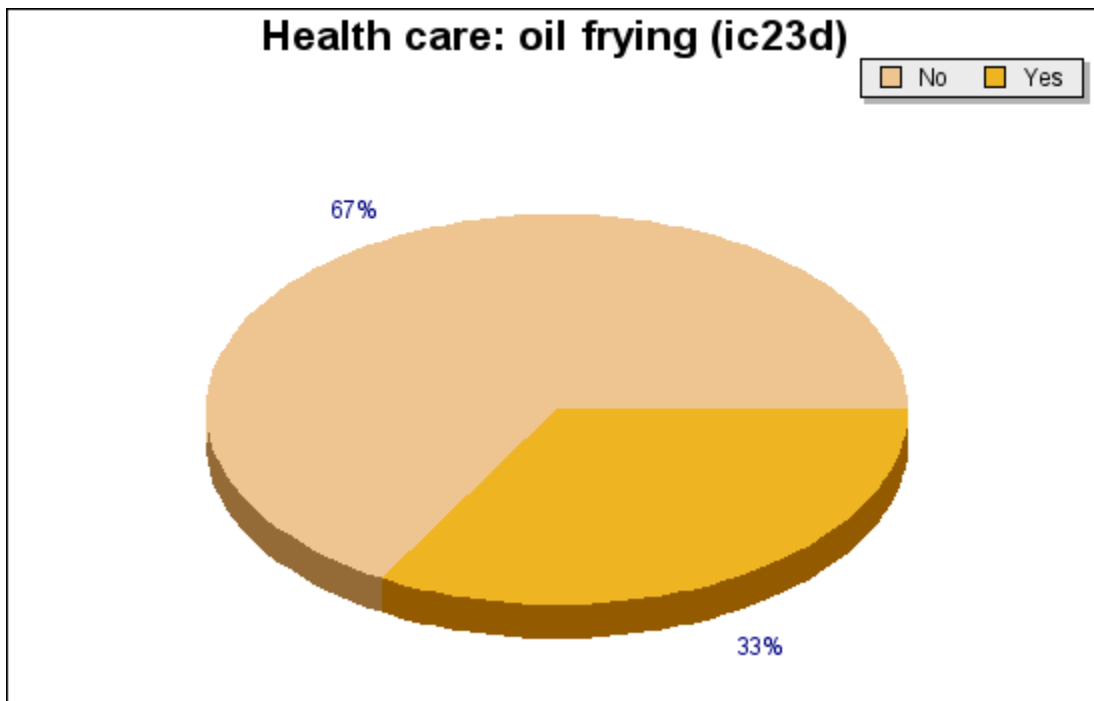
Question ic23ba_2: Health care: type of oven-electric



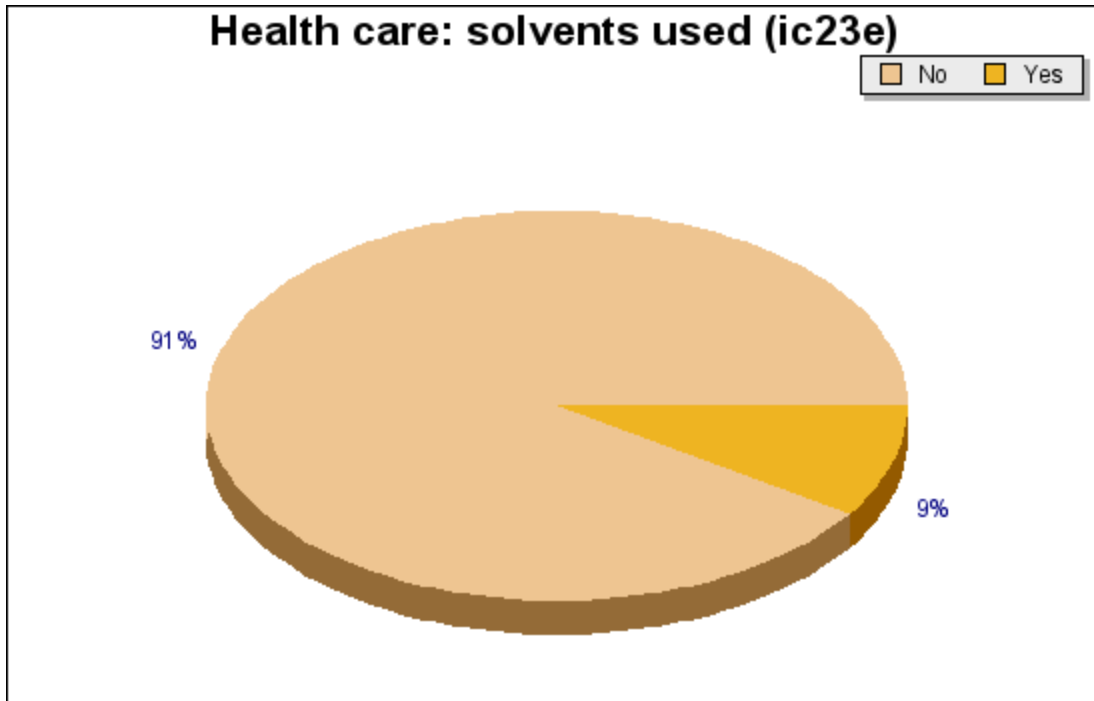
Question ic23ba_3: Health care: type of oven-other



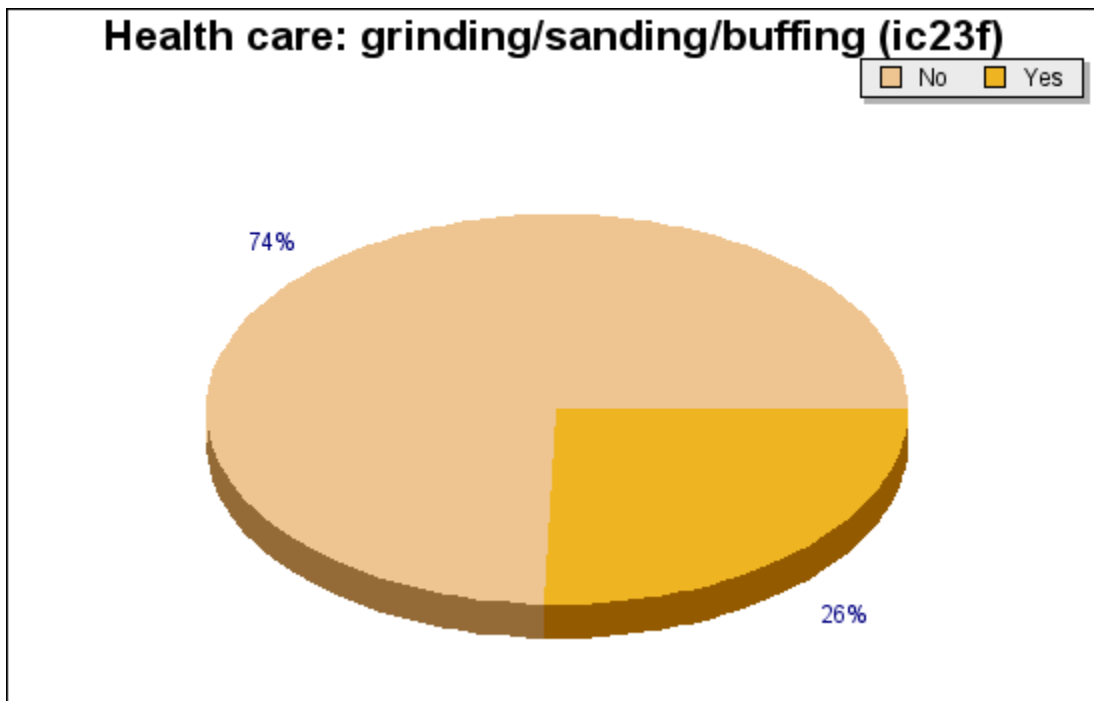
Question ic23c: Health care: grilling or roasting



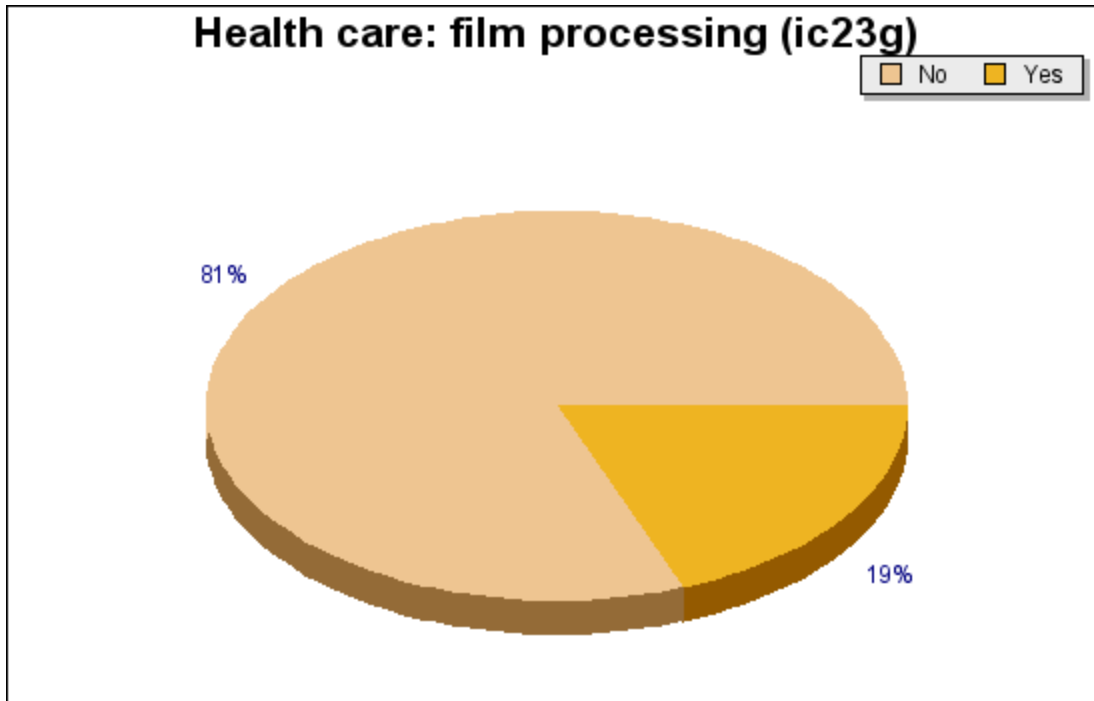
Question ic23d: Health care: oil frying



Question ic23e: Health care: solvents used

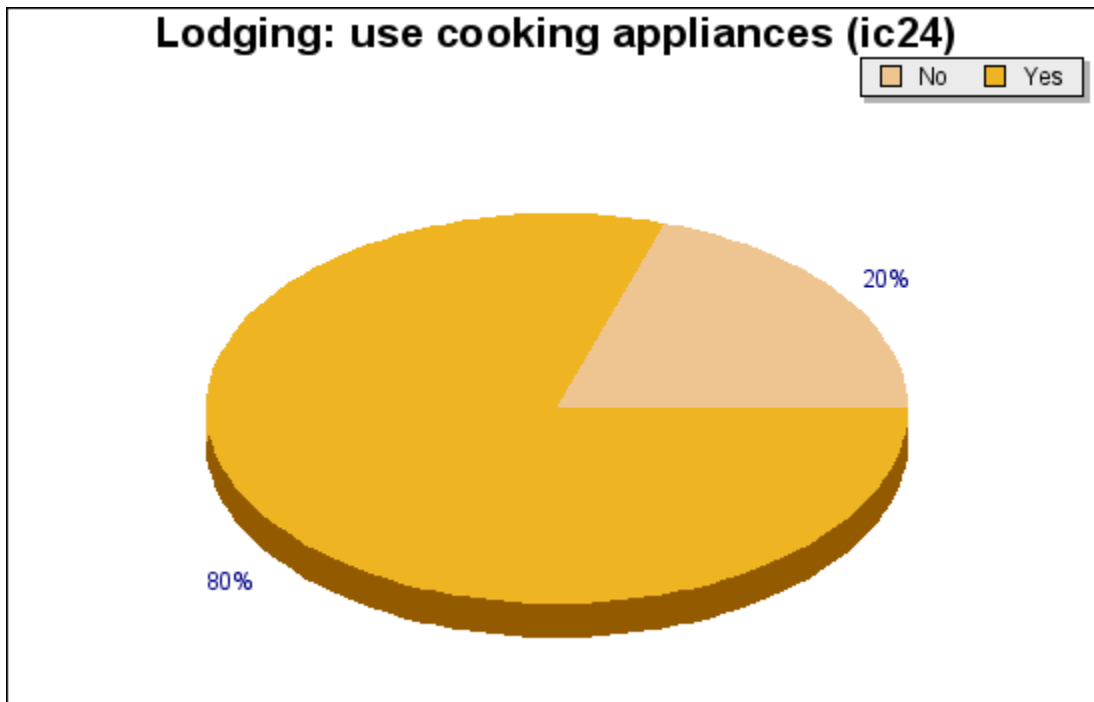


Question ic23f: Health care: grinding/sanding/buffing



Question ic23g: Health care: film processing

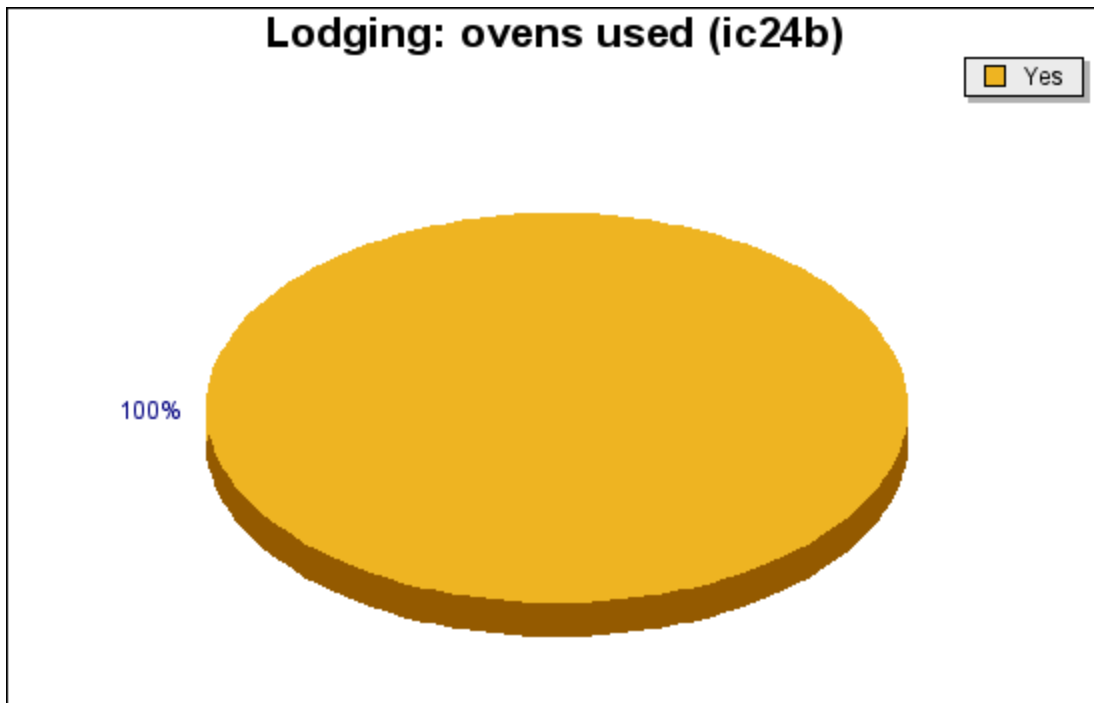
Cooking Appliances: Lodging Businesses



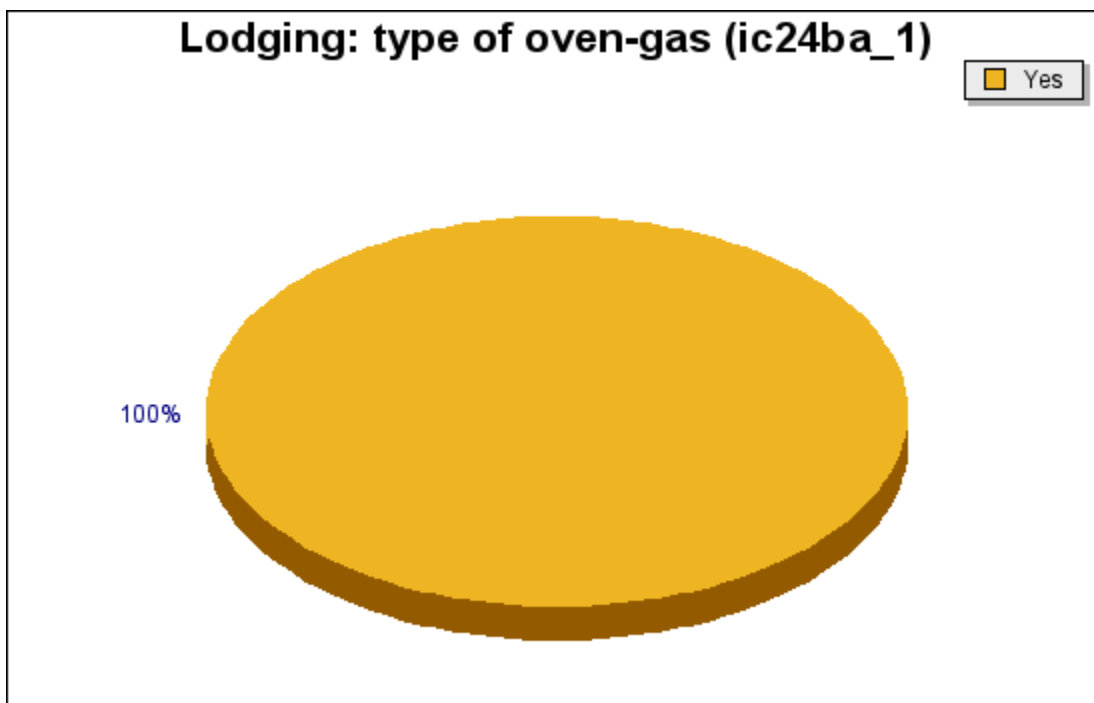
Question ic24: Lodging: use cooking appliances



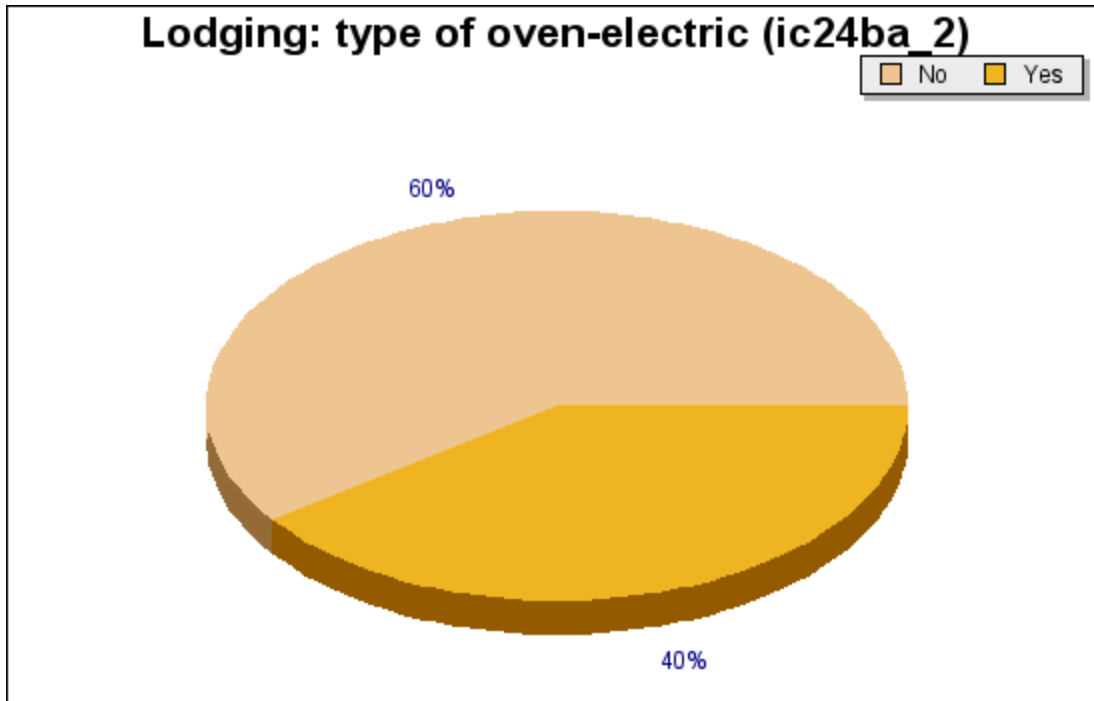
Question ic24a: Lodging: has restaurant



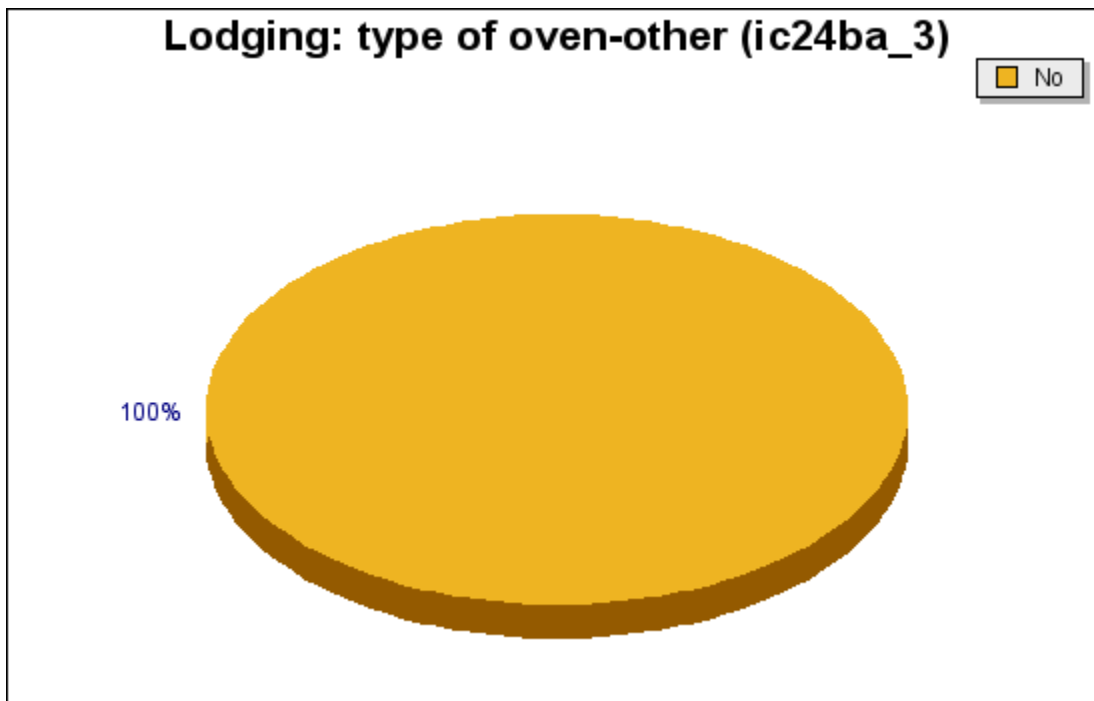
Question ic24b: Lodging: ovens used



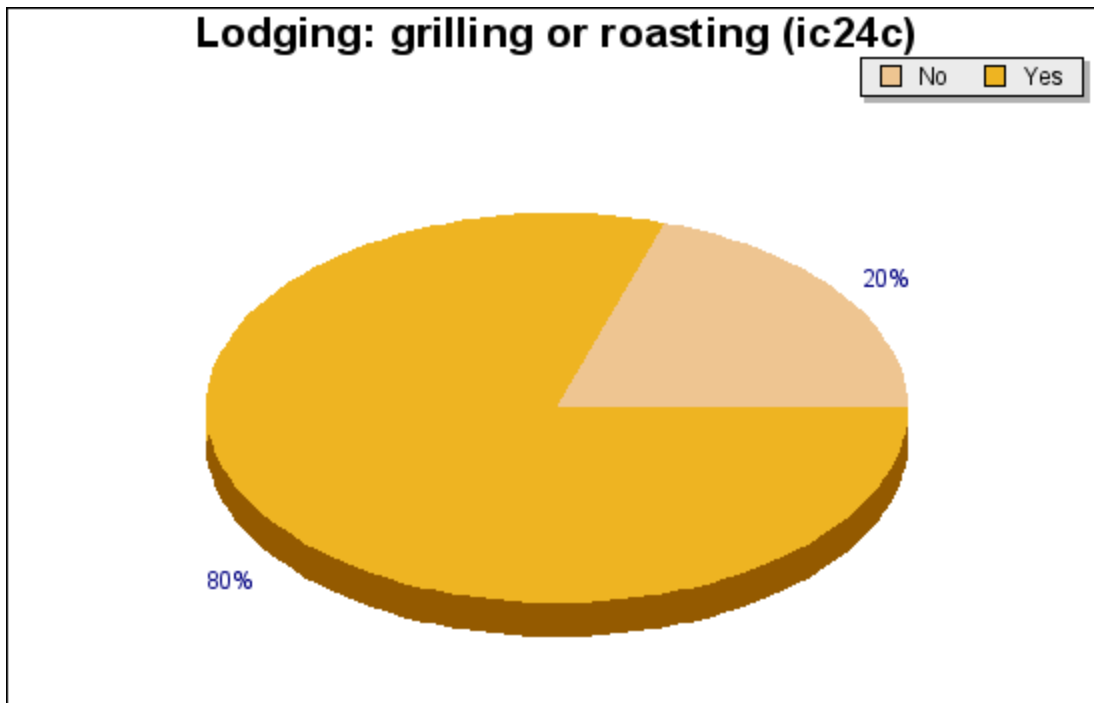
Question ic24ba_1: Lodging: type of oven-gas



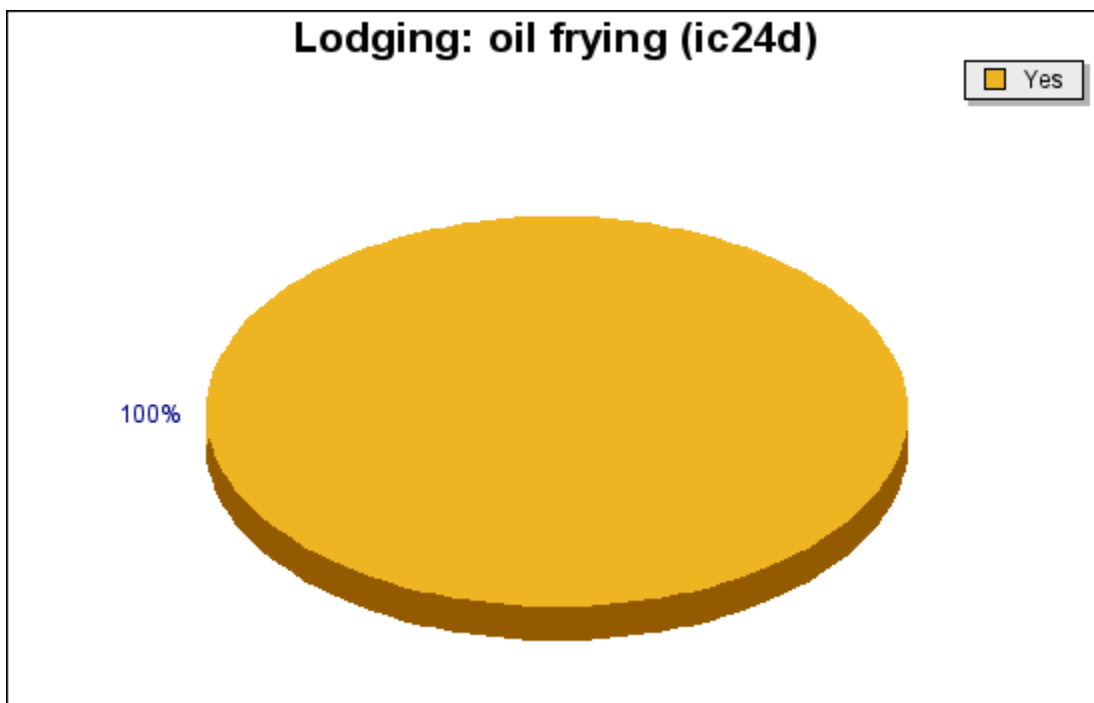
Question ic24ba_2: Lodging: type of oven-electric



Question ic24ba_3: Lodging: type of oven-other

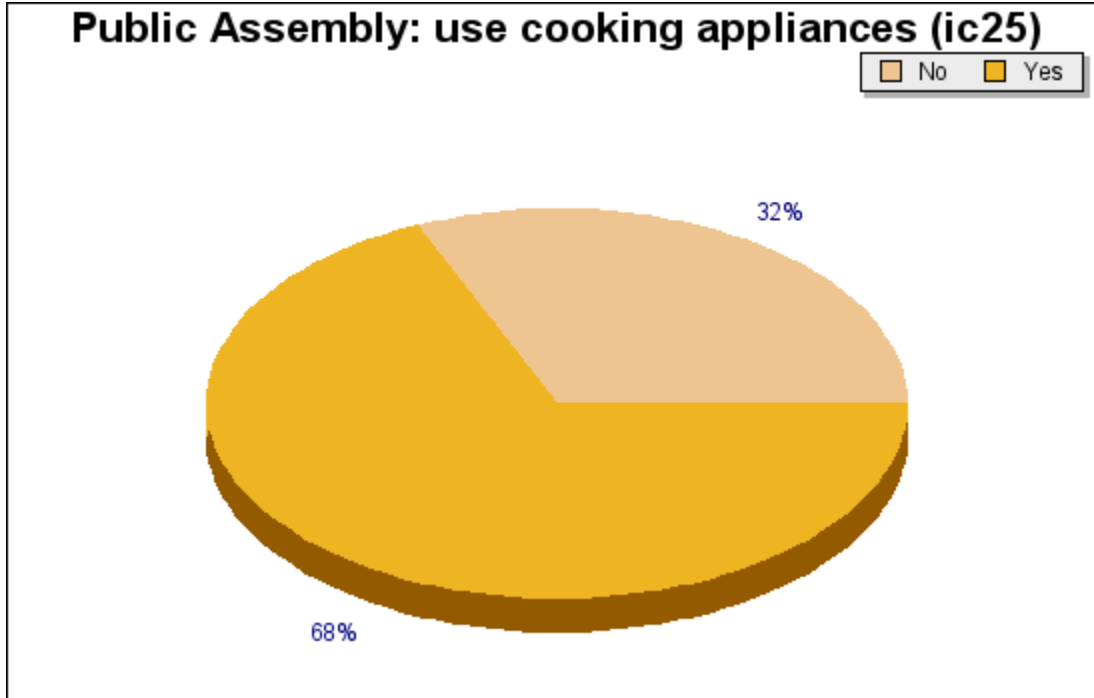


Question ic24c: Lodging: grilling or roasting

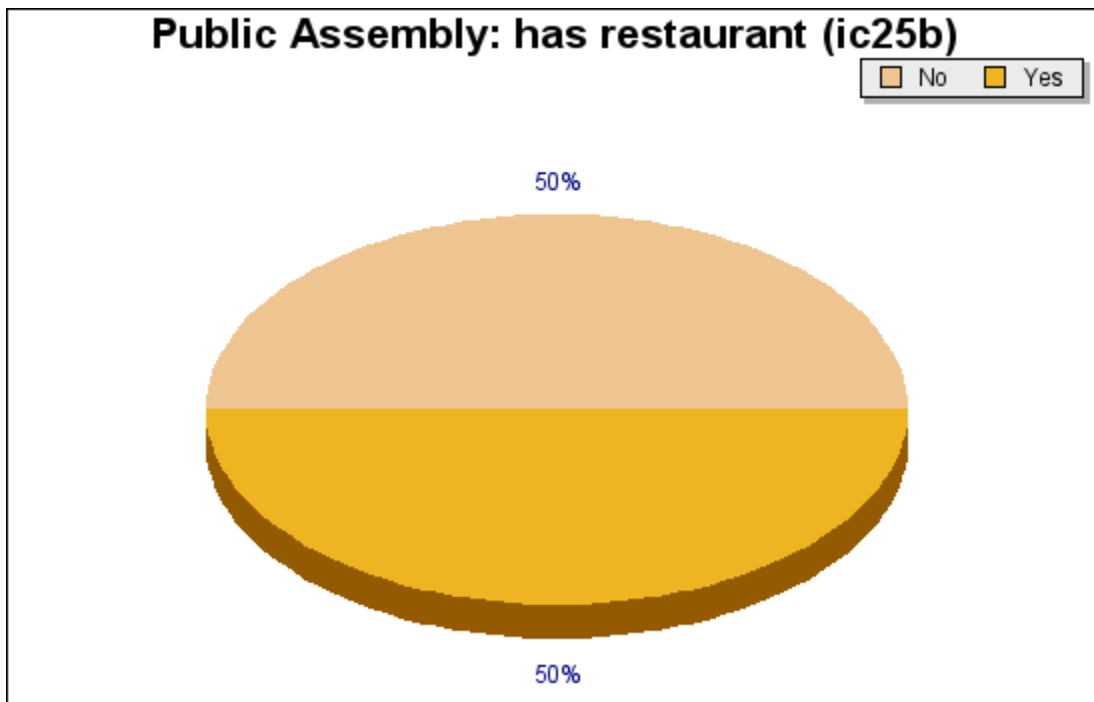


Question ic24d: Lodging: oil frying

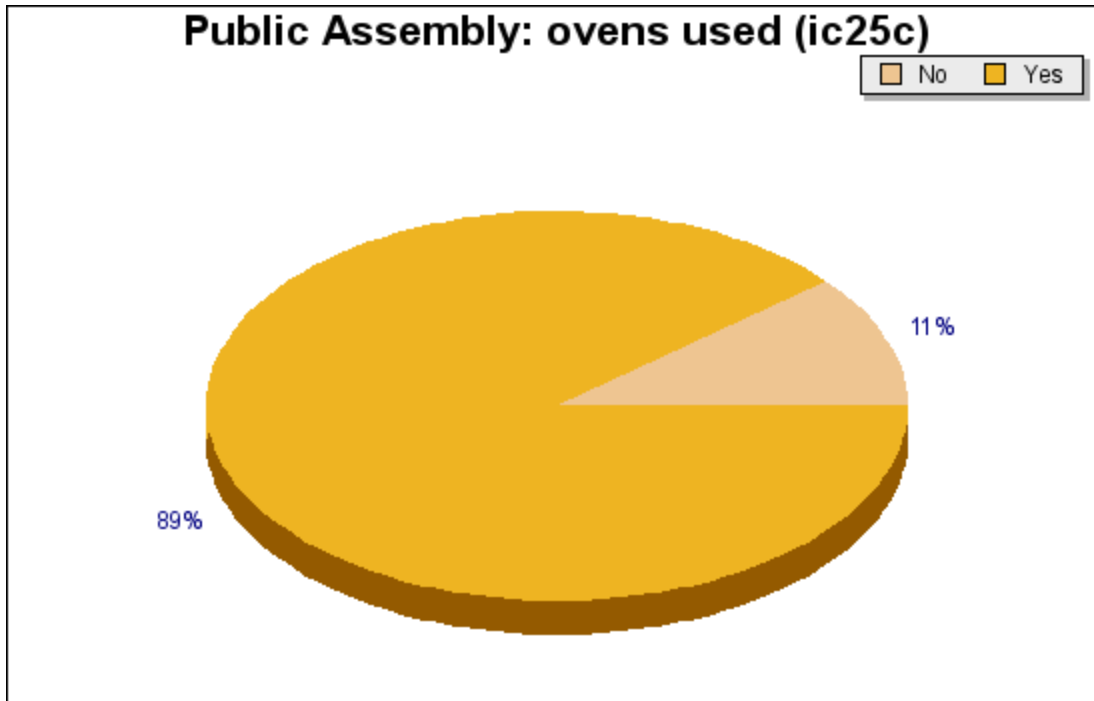
Cooking Appliances: Public Assembly Businesses



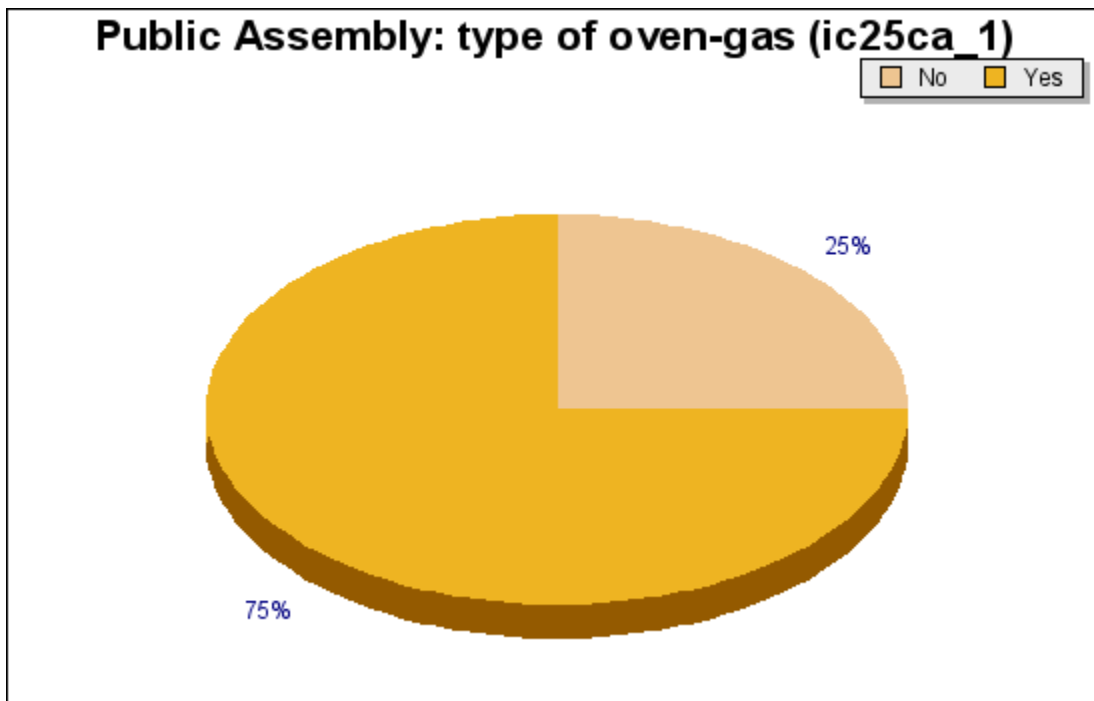
Question ic25: Public Assembly: use cooking appliances



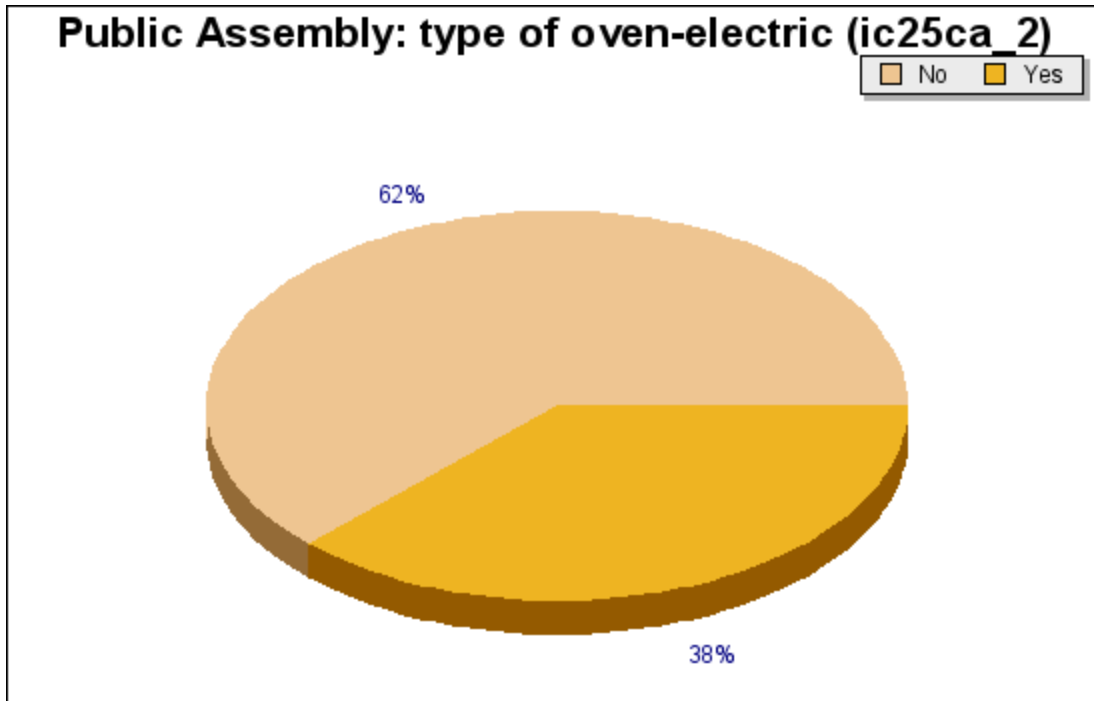
Question ic25b: Public Assembly: has restaurant



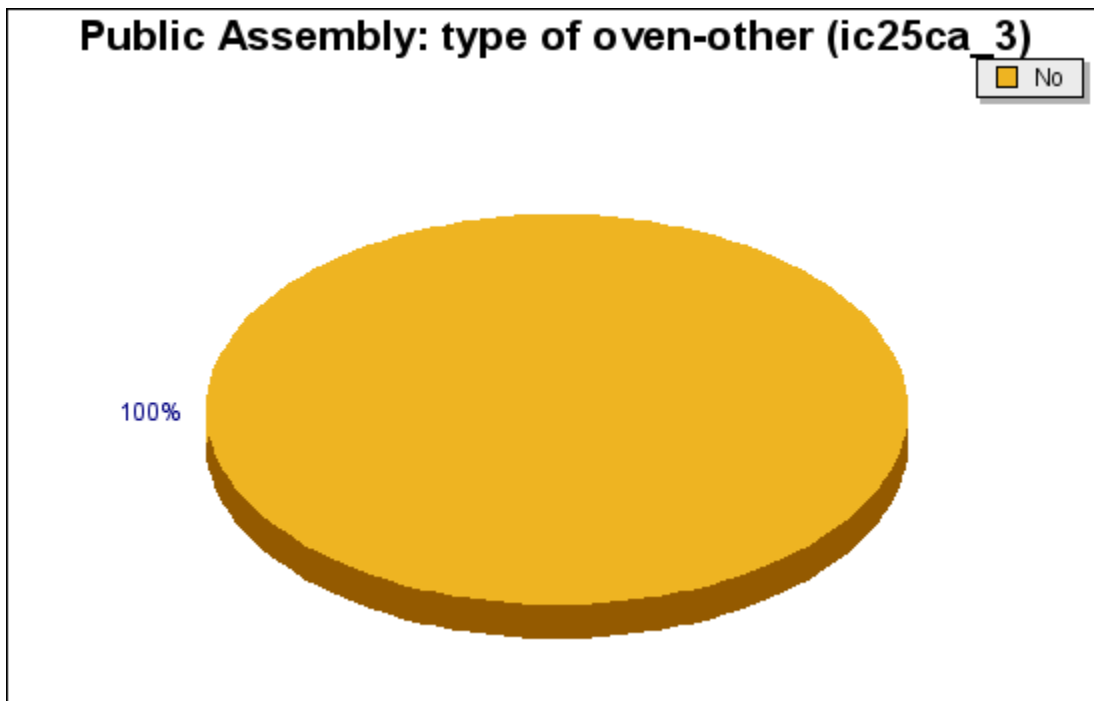
Question ic25c: Public Assembly: ovens used



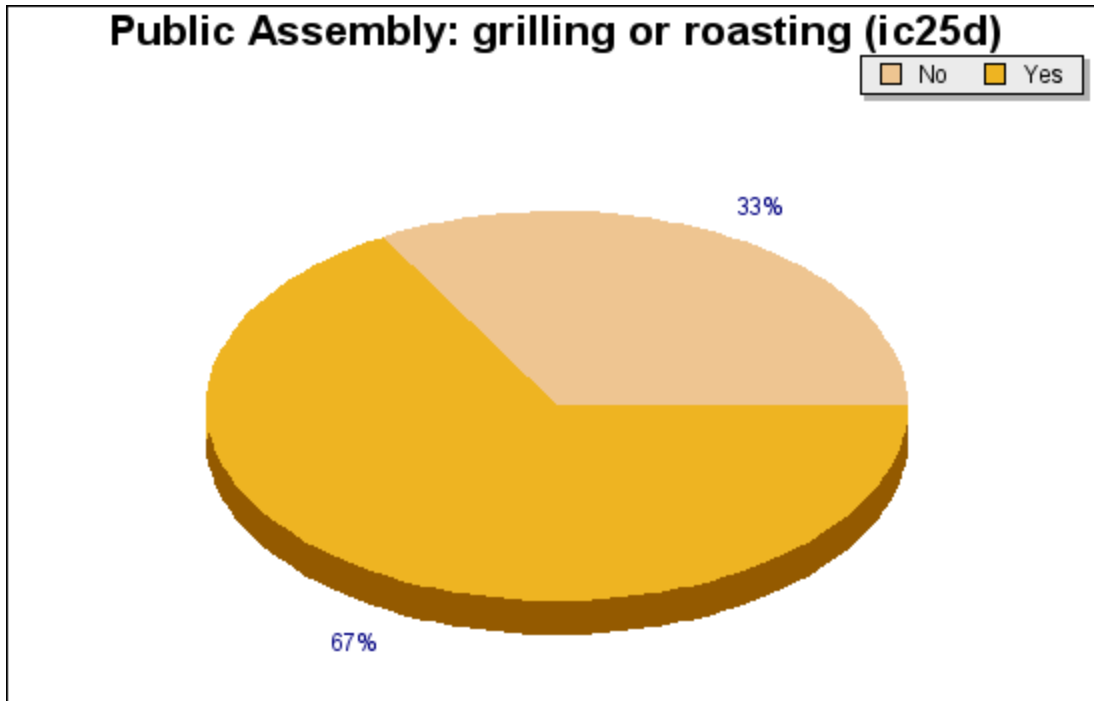
Question ic25ca_1: Public Assembly: type of oven-gas



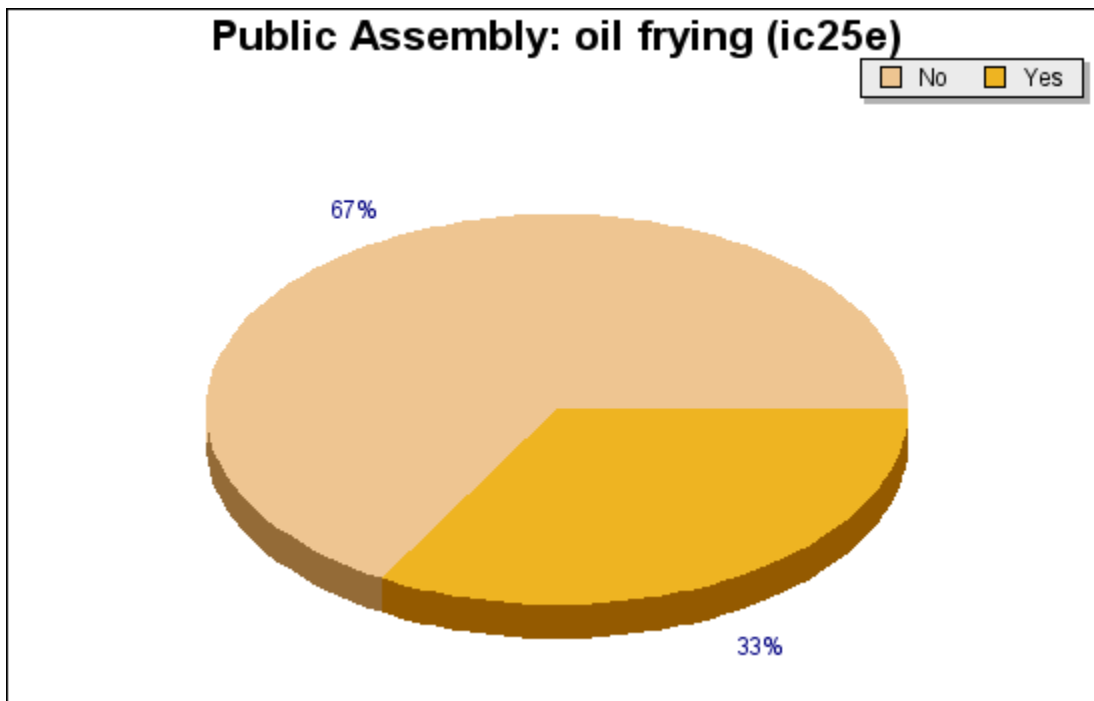
Question ic25ca_2: Public Assembly: type of oven-electric



Question ic25ca_3: Public Assembly: type of oven-other

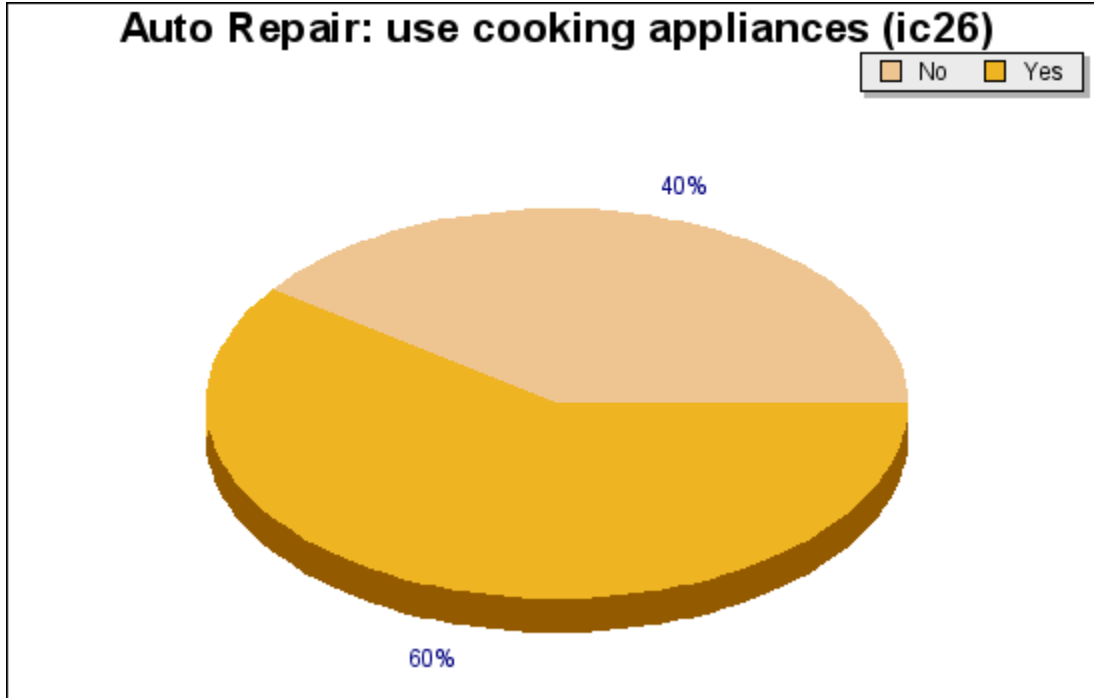


Question ic25d: Public Assembly: grilling or roasting

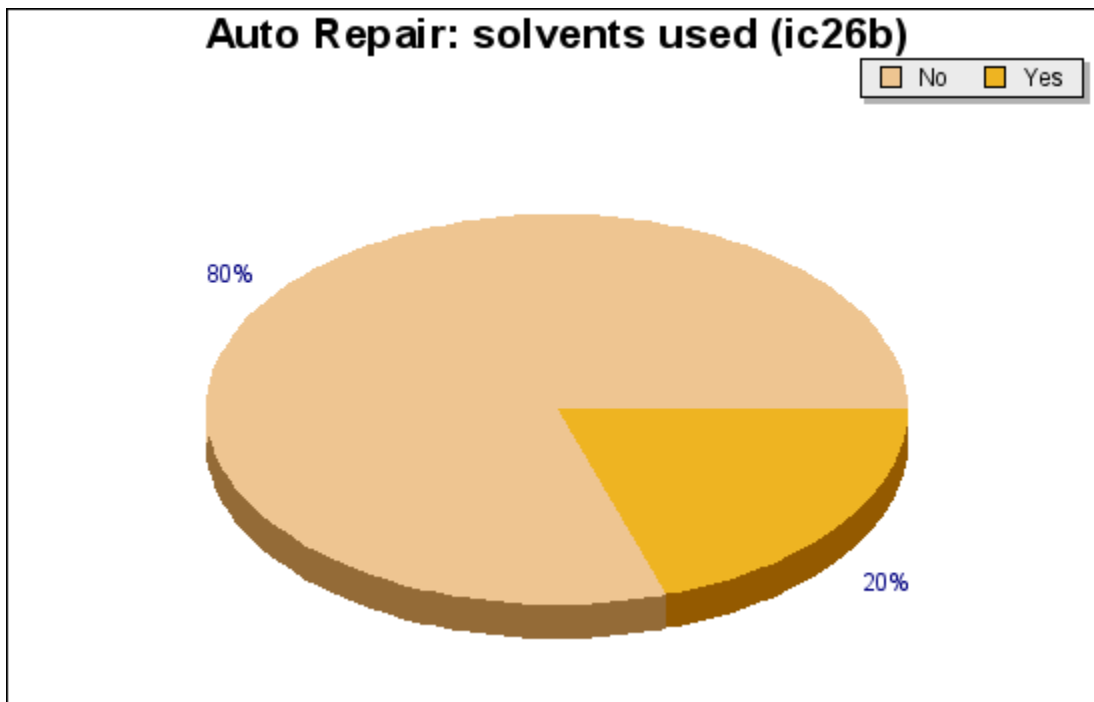


Question ic25e: Public Assembly: oil frying

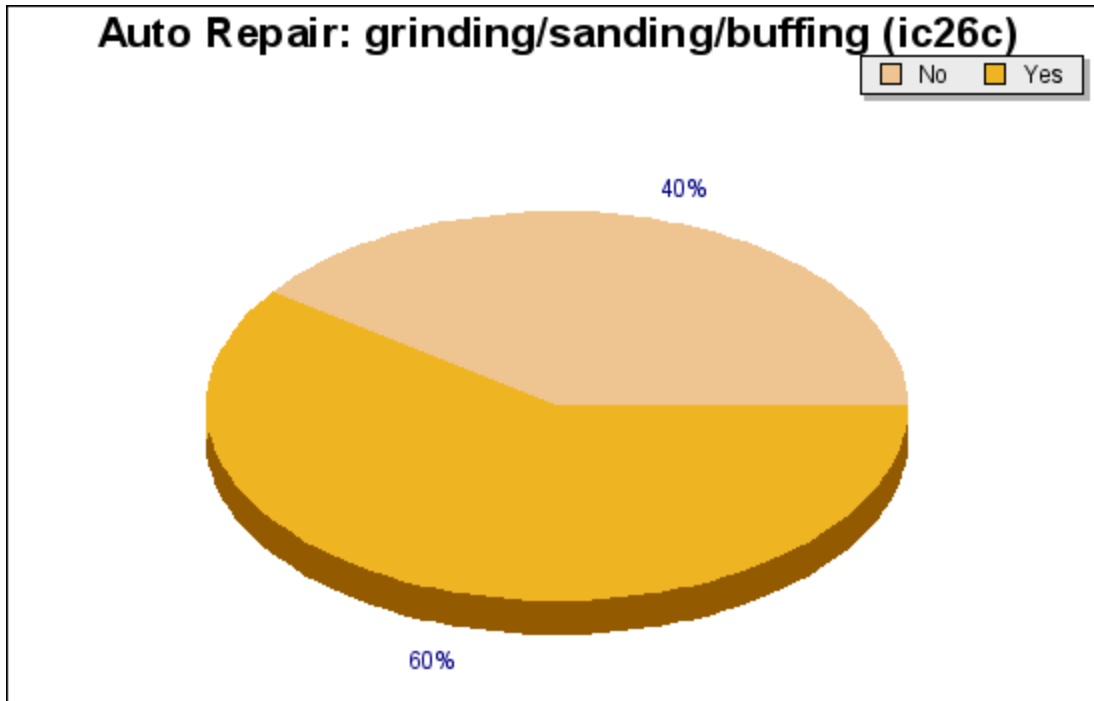
Cooking Appliances: Auto Repair - No Gasoline Sales



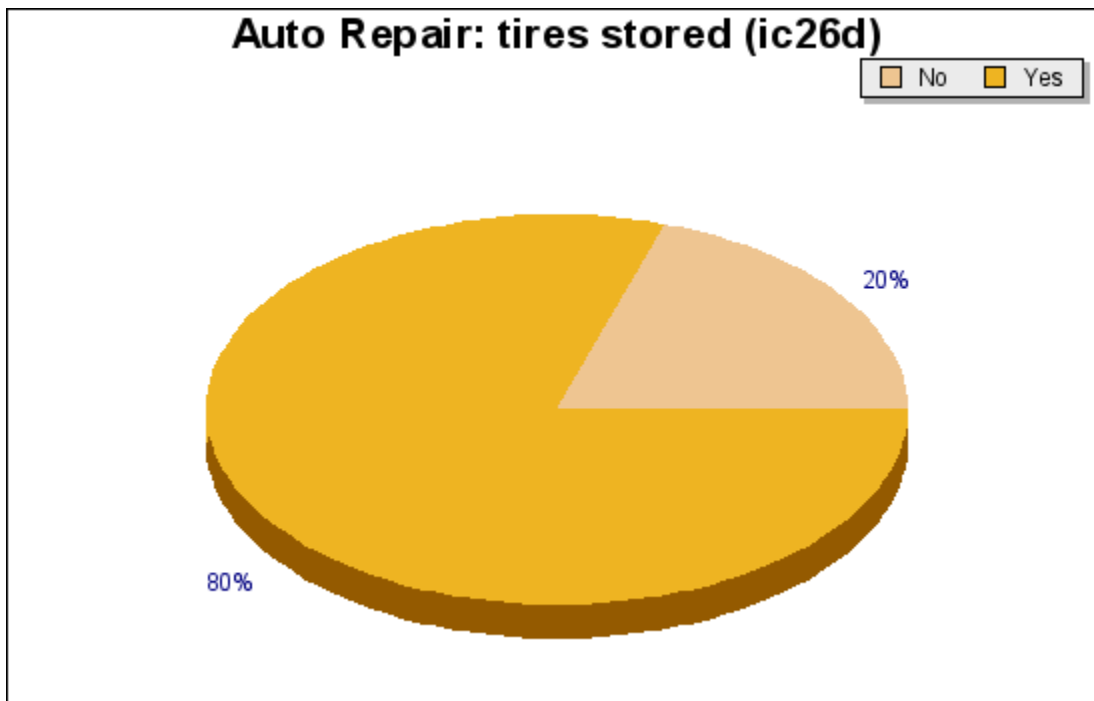
Question ic26: Auto Repair: use cooking appliances



Question ic26b: Auto Repair: solvents used

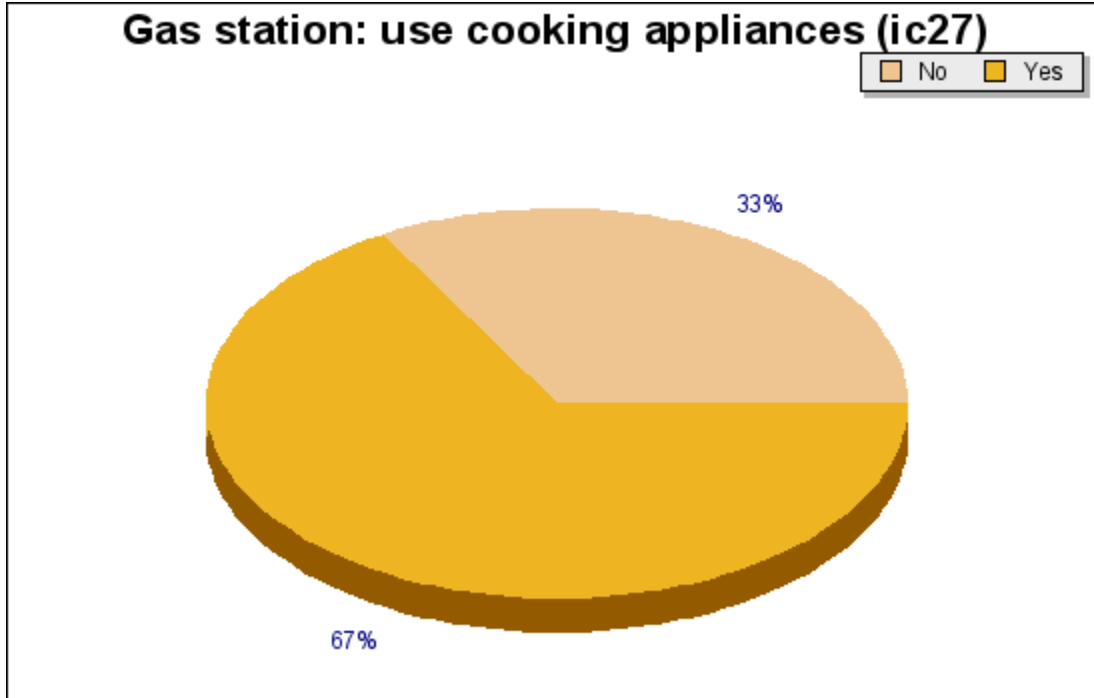


Question ic26c: Auto Repair: grinding/sanding/buffing

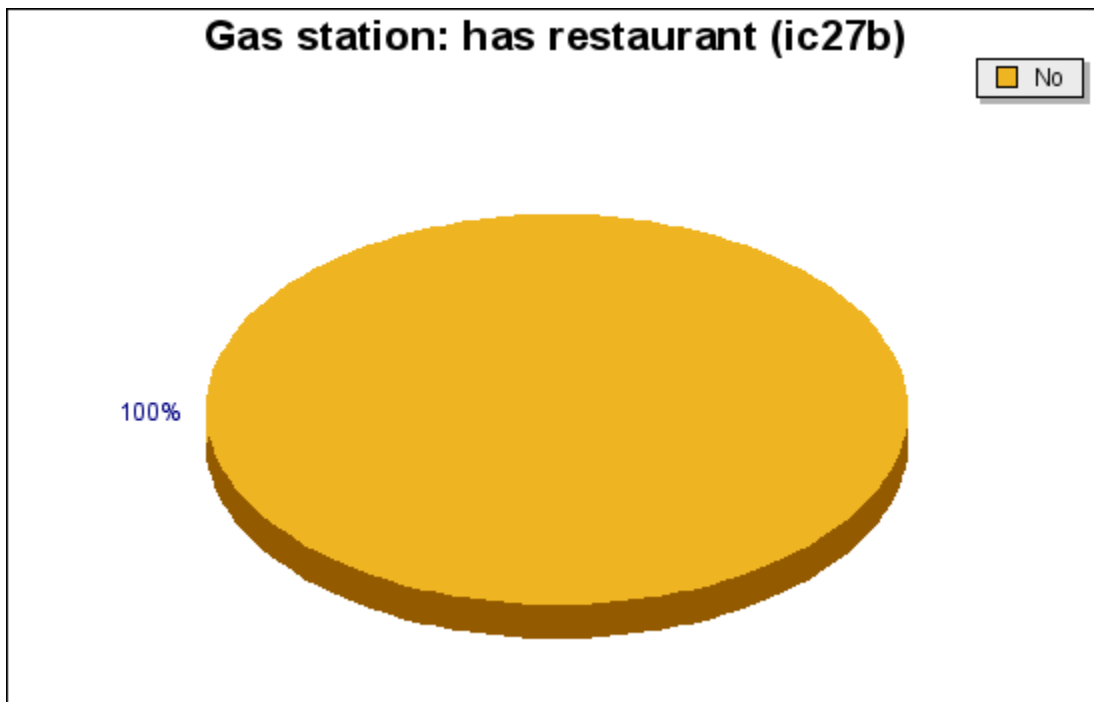


Question ic26d: Auto Repair: tires stored

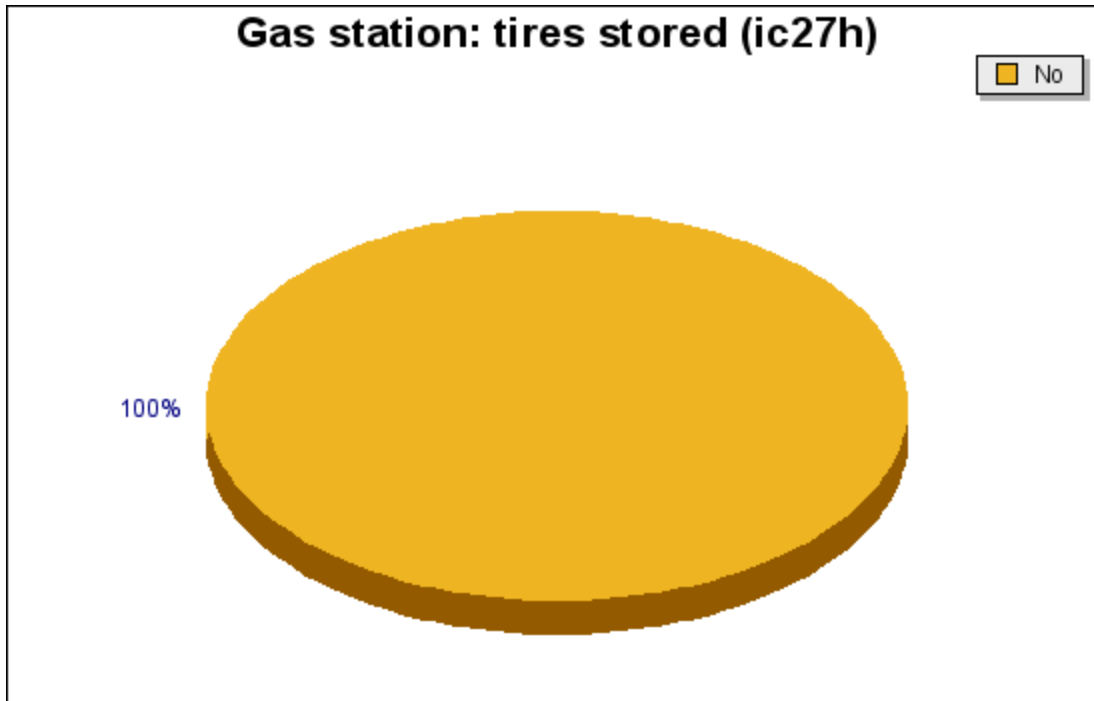
Cooking Appliances: Gas Stations



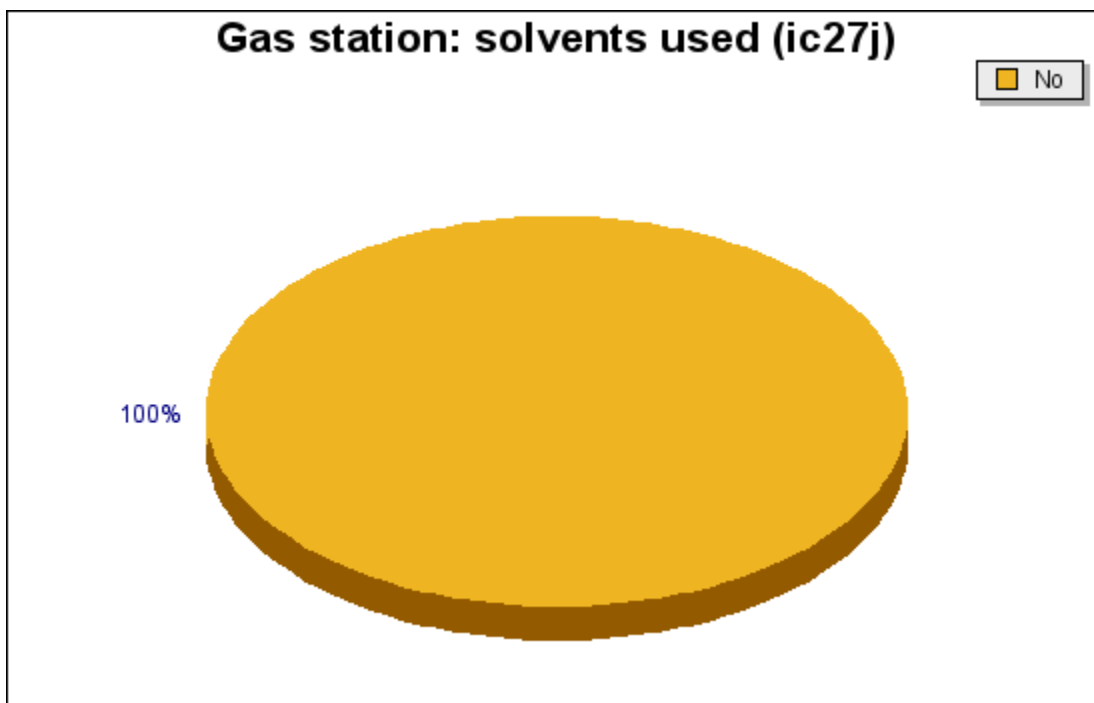
Question ic27: Gas station: use cooking appliances



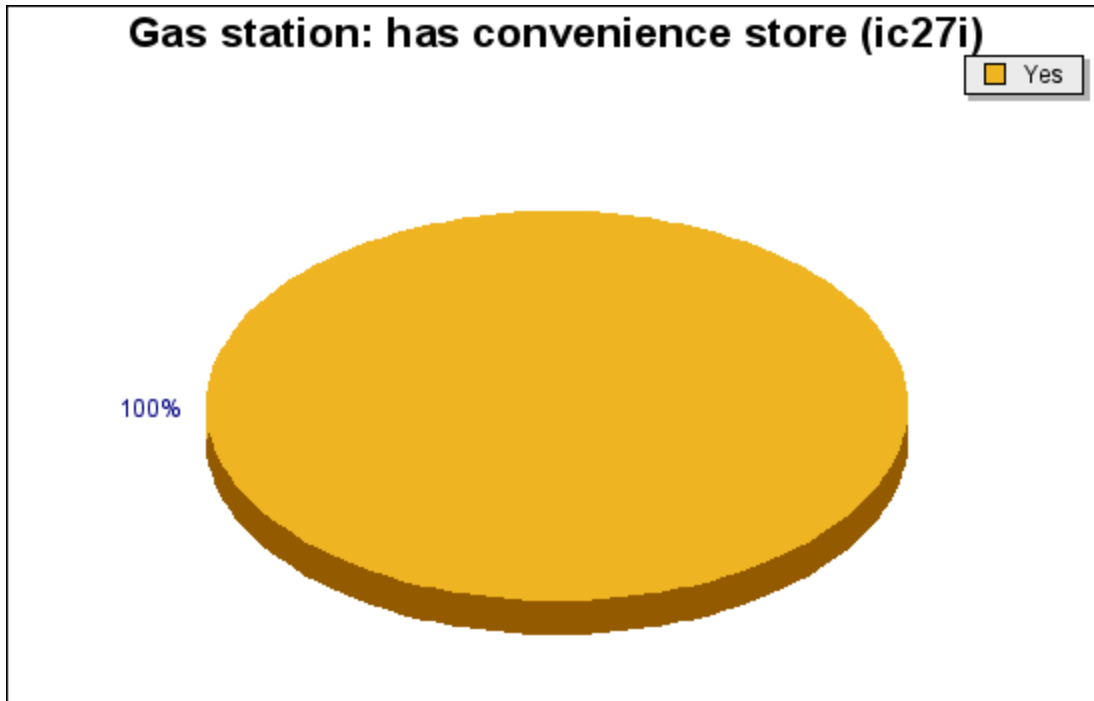
Question ic27b: Gas station: has restaurant



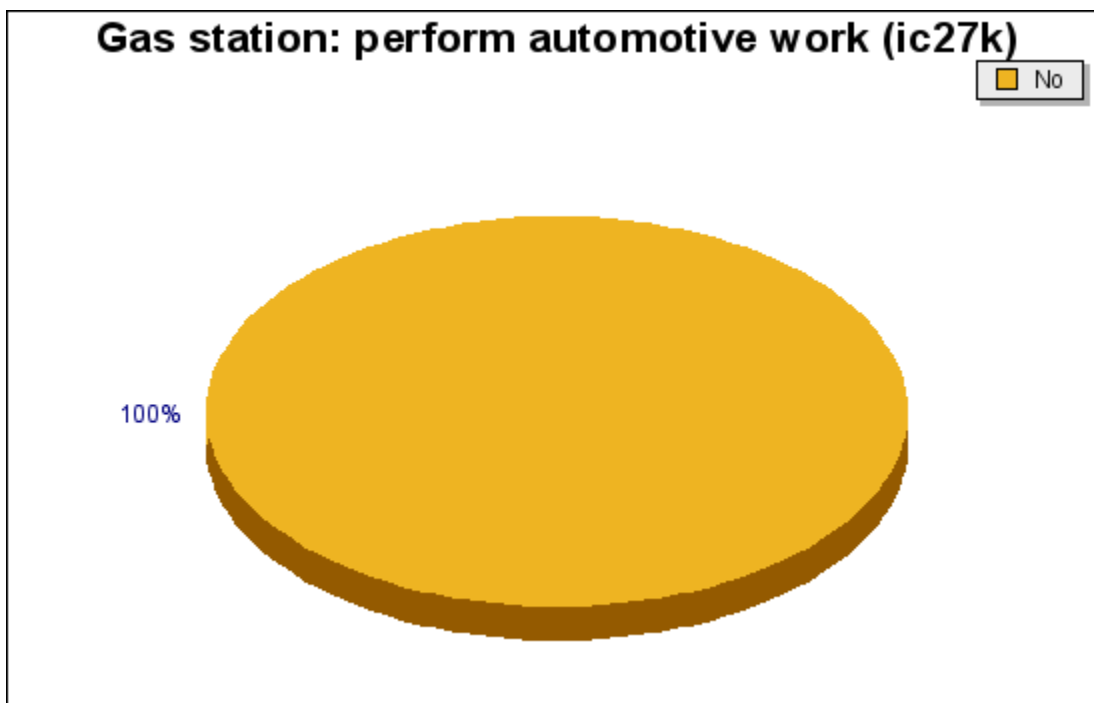
Question ic27h: Gas station: tires stored



Question ic27j: Gas station: solvents used

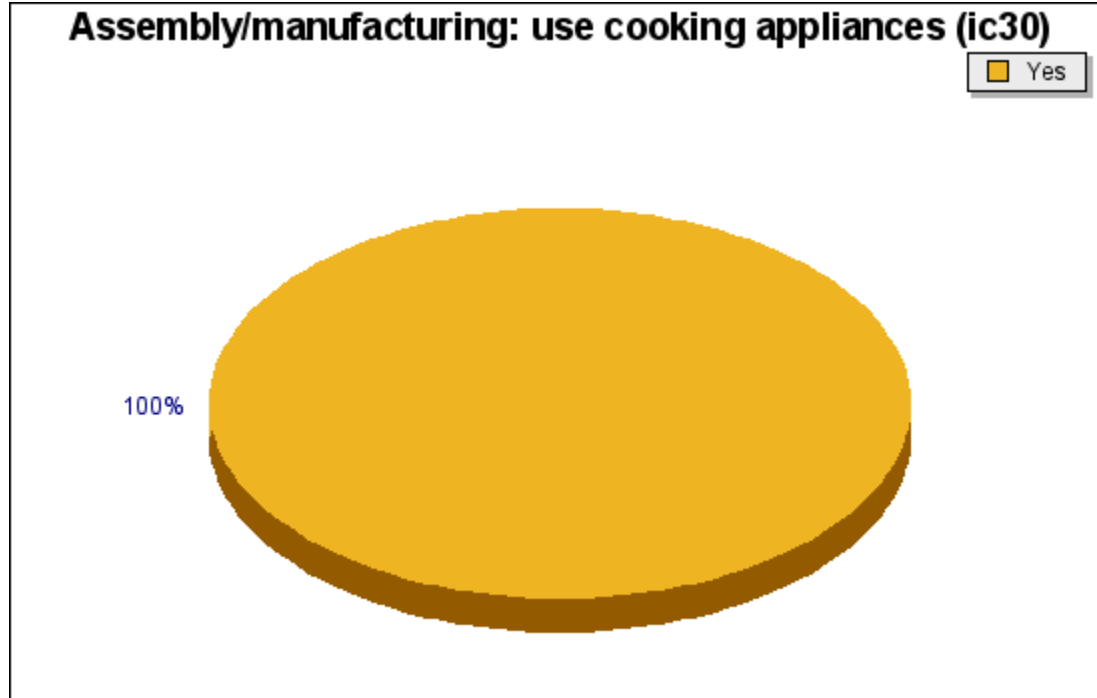


Question ic27i: Gas station: has convenience store

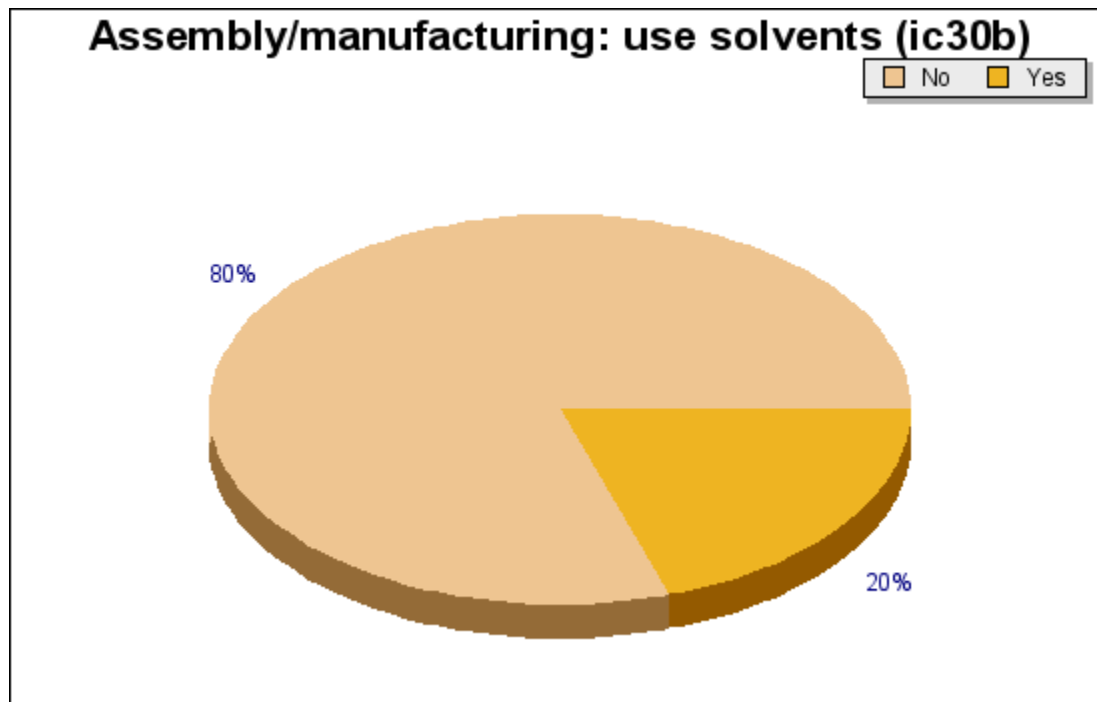


Question ic27k: Gas station: perform automotive work

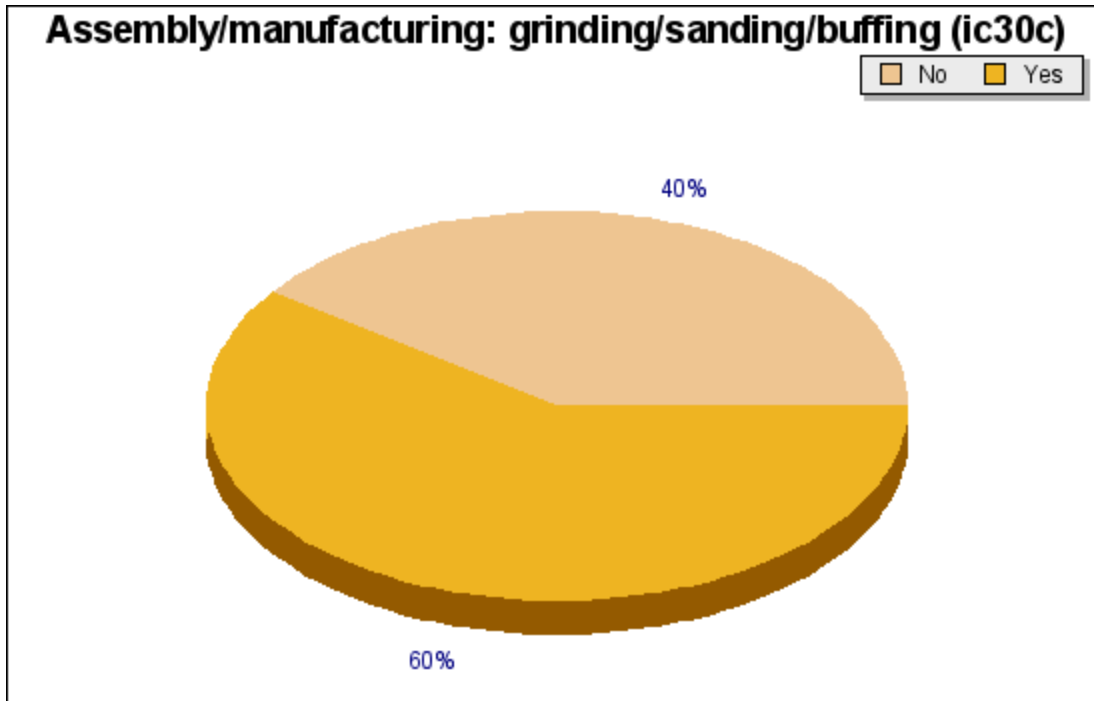
Cooking Appliances: Assembly/light Manufacturing



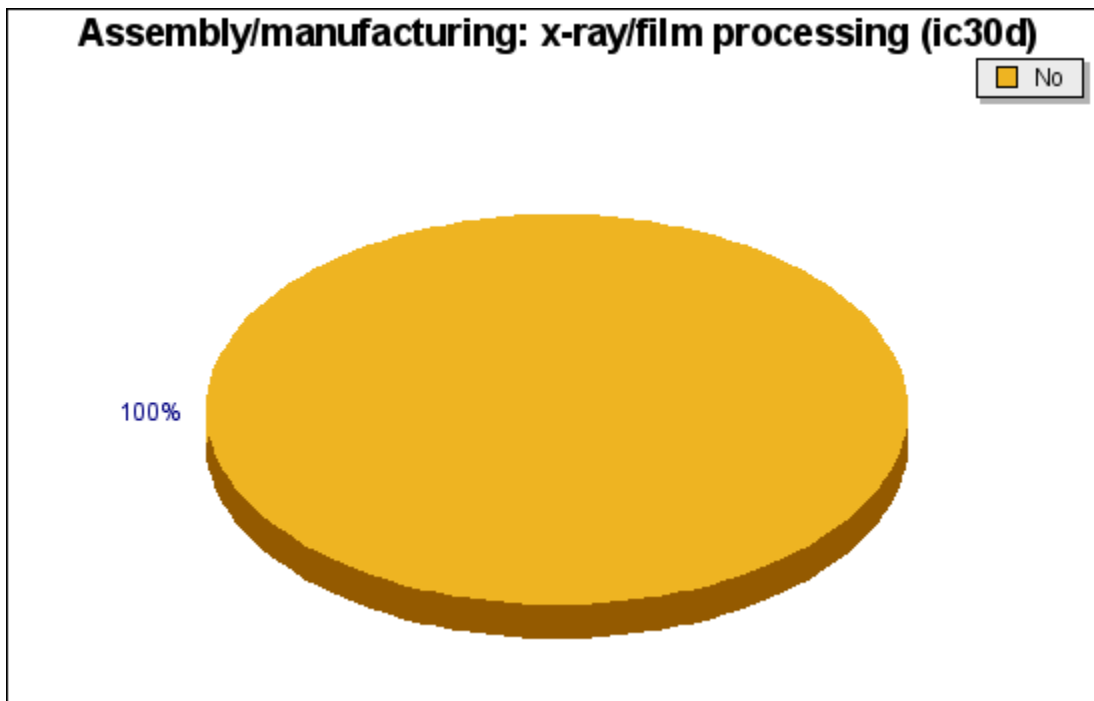
Question ic30: Assembly/manufacturing: use cooking appliances



Question ic30b: Assembly/manufacturing: use solvents



Question ic30c: Assembly/manufacturing: grinding/sanding/buffing

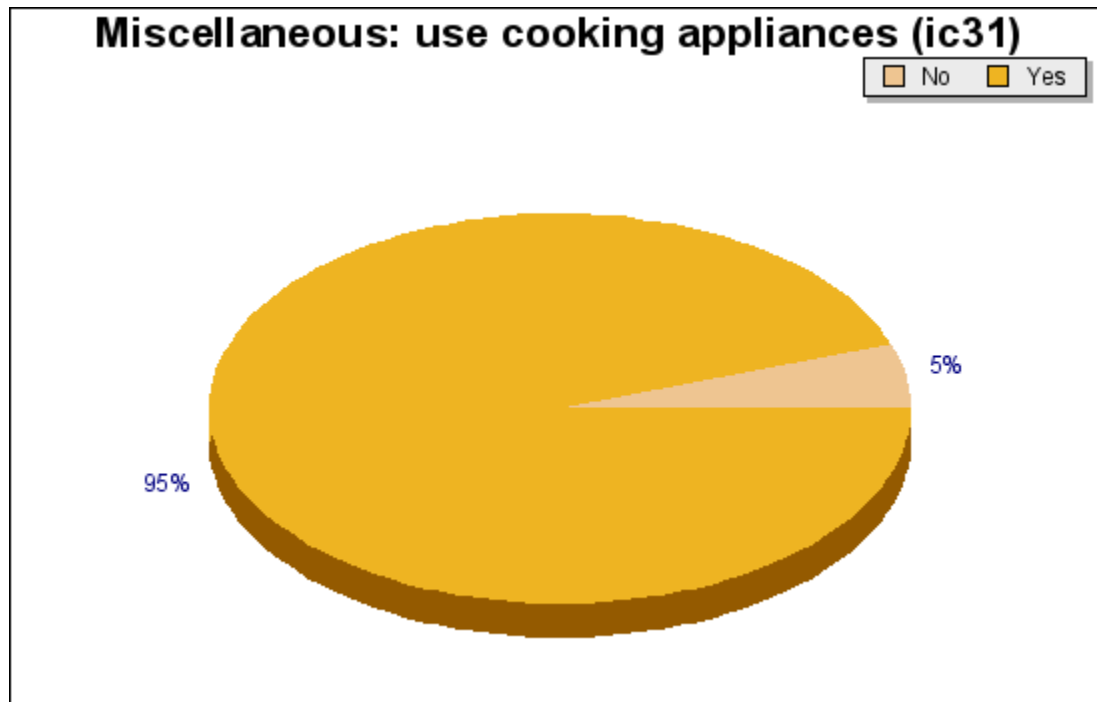


Question ic30d: Assembly/manufacturing: x-ray/film processing

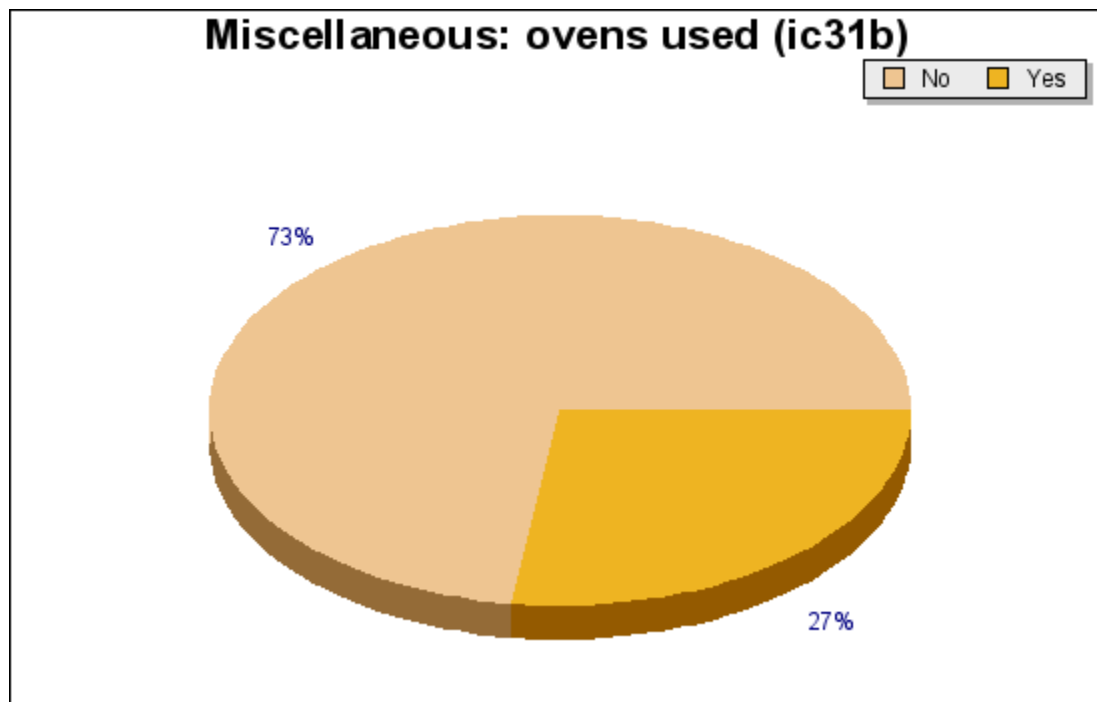


Question ic30e: Assembly/manufacturing: tires stored

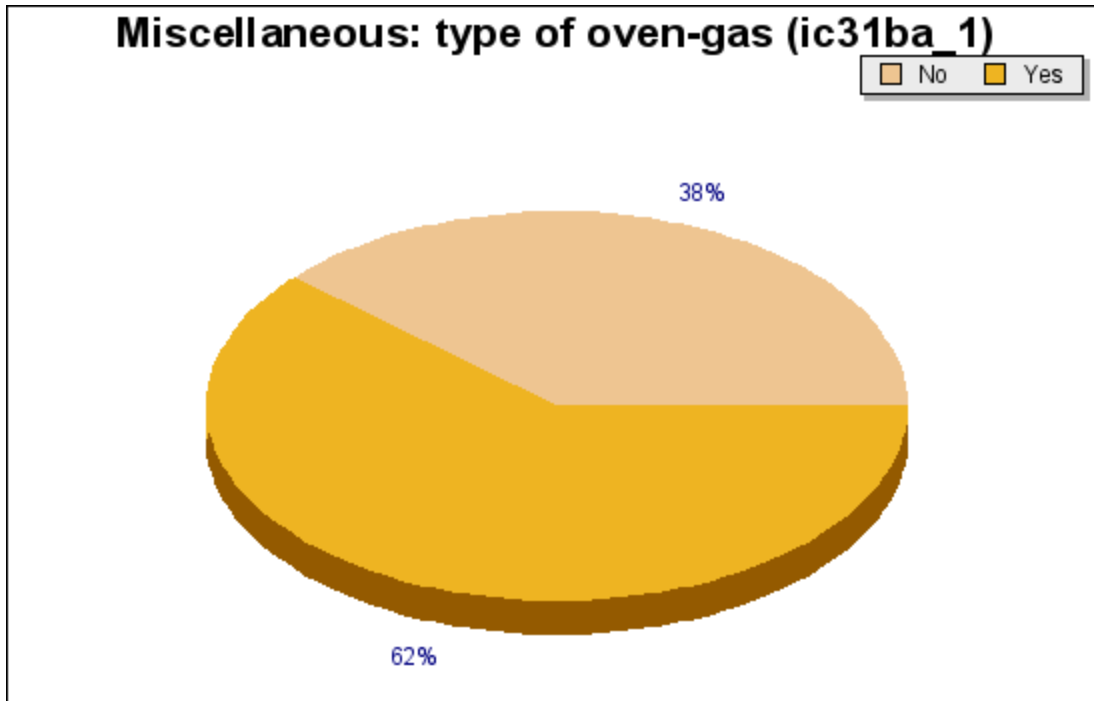
Cooking Appliances: Police/fire/post Office



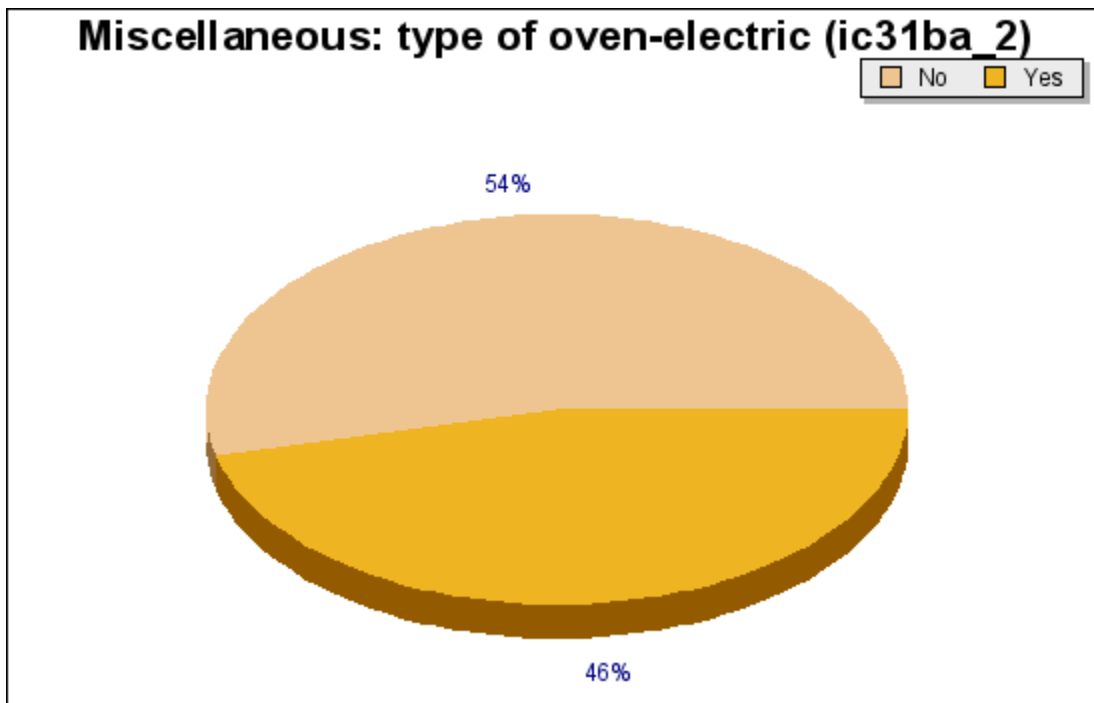
Question ic31: Miscellaneous: use cooking appliances



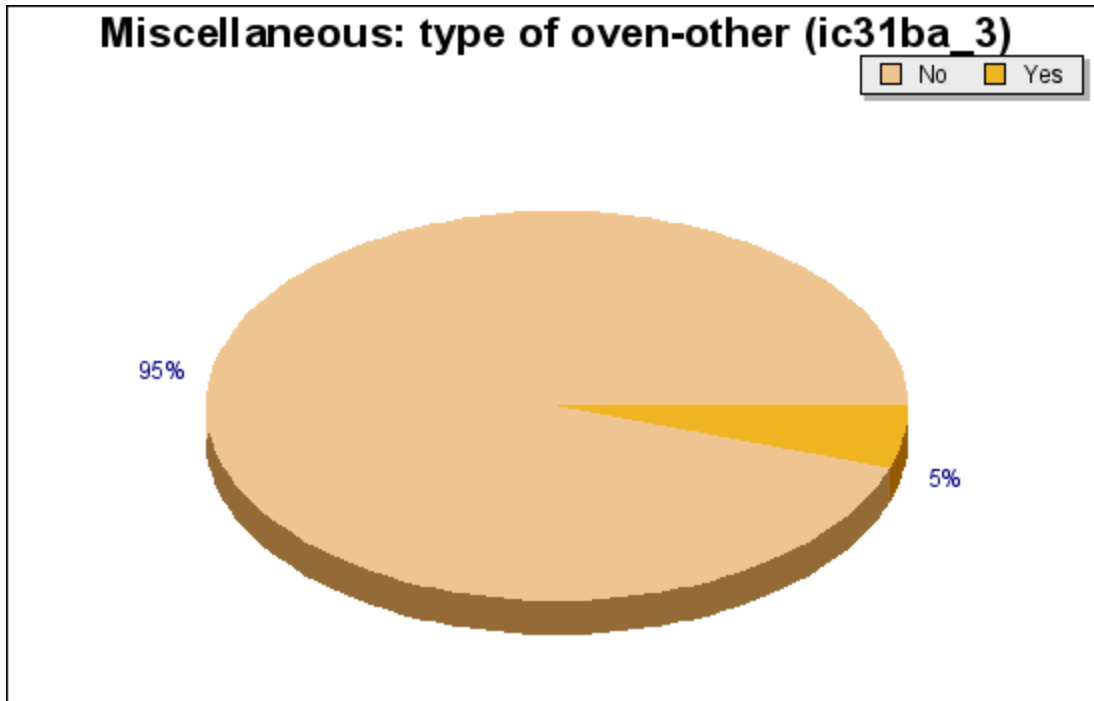
Question ic31b: Miscellaneous: ovens used



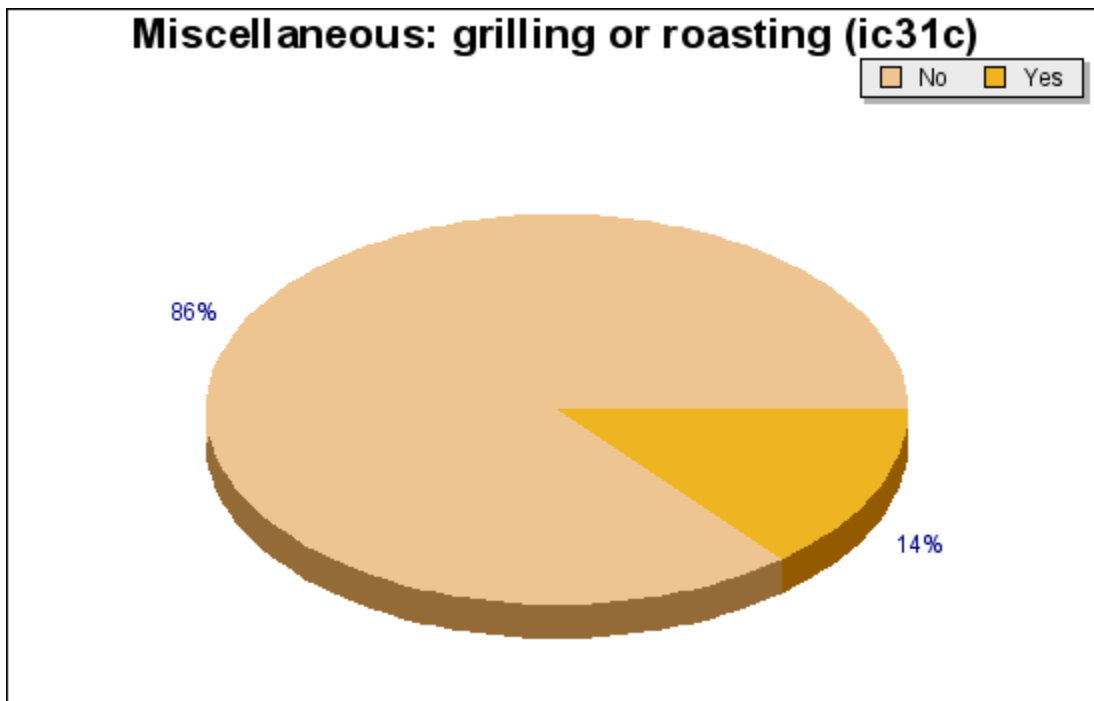
Question ic31ba_1: Miscellaneous: type of oven-gas



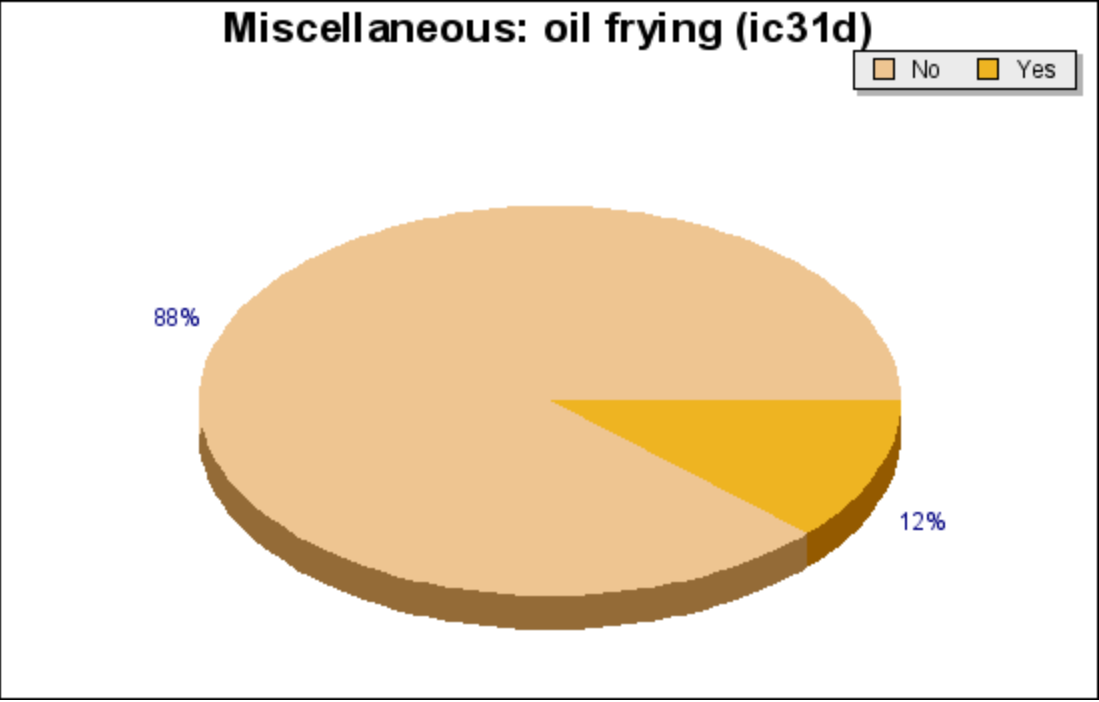
Question ic31ba_2: Miscellaneous: type of oven-electric



Question ic31ba_3: Miscellaneous: type of oven-other

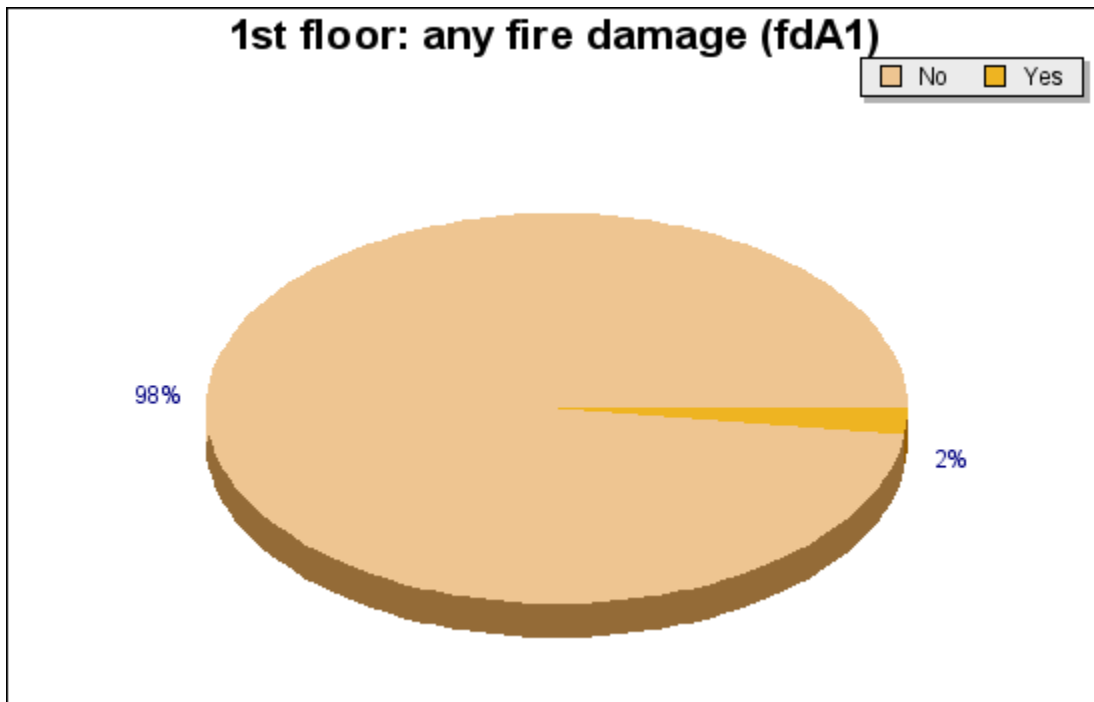


Question ic31c: Miscellaneous: grilling or roasting



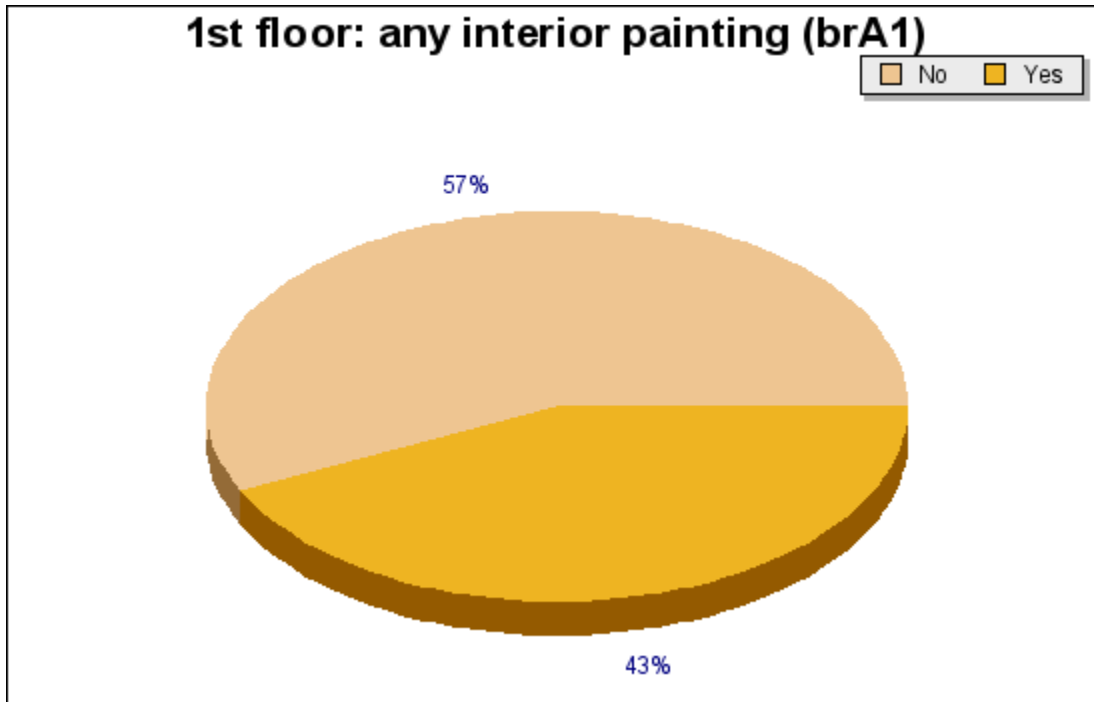
Question ic31d: Miscellaneous: oil frying

Fire Damage: 1st Floor

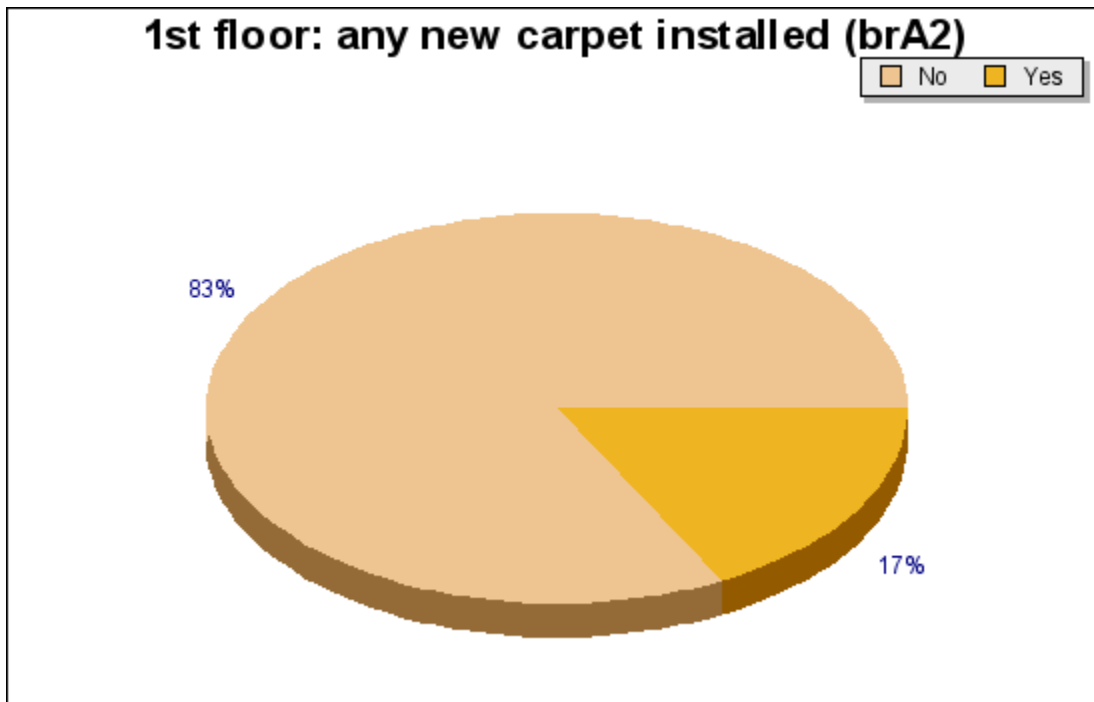


Question fdA1: 1st floor: any fire damage

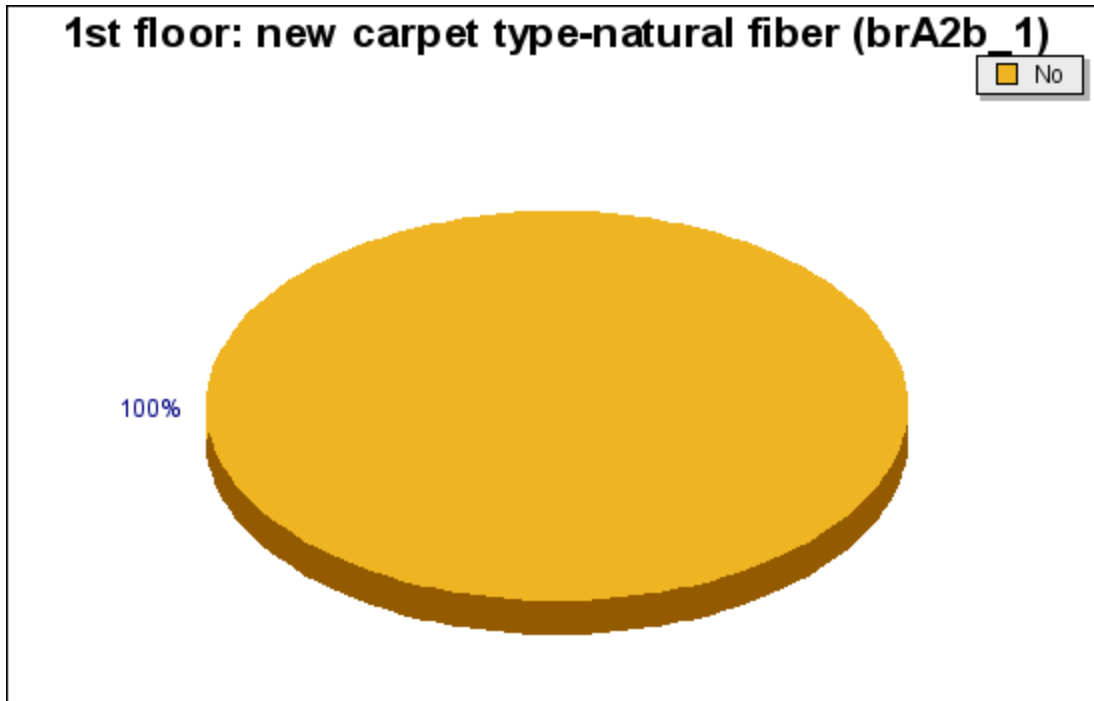
Building Renovations: 1st Floor



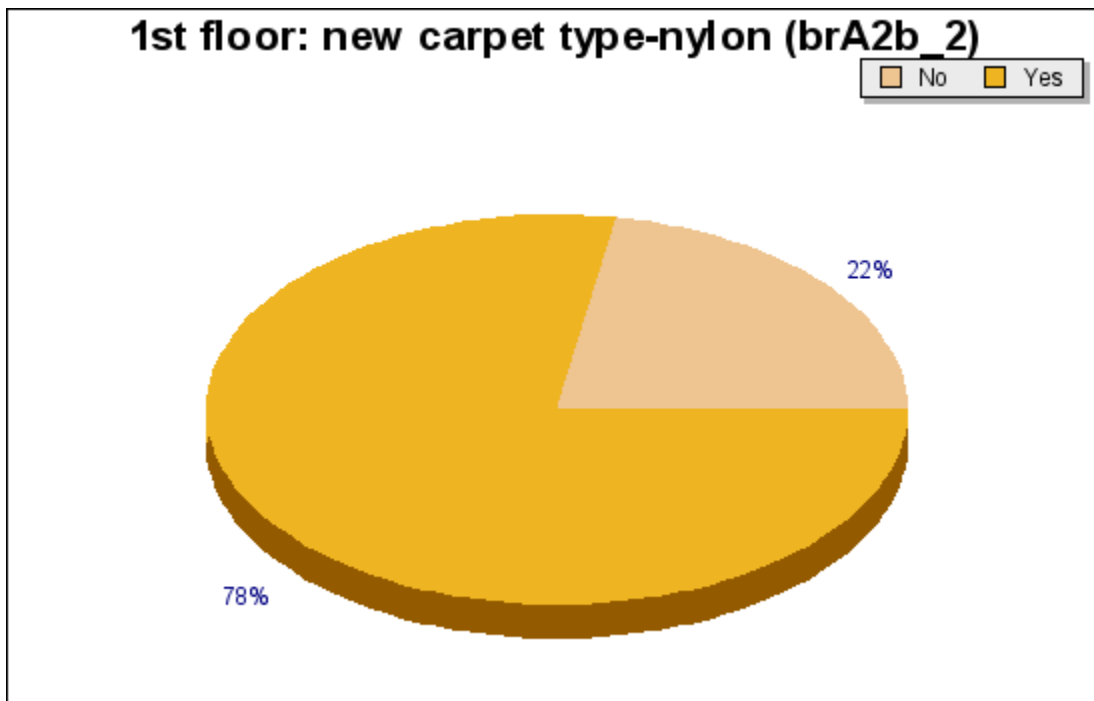
Question brA1: 1st floor: any interior painting



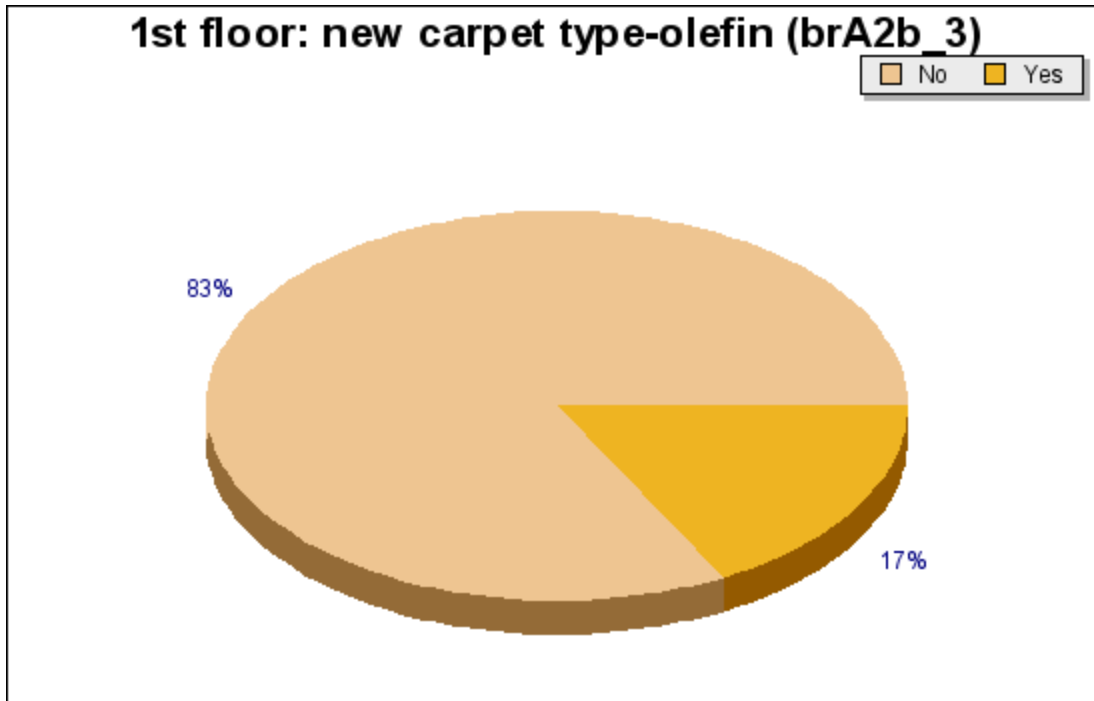
Question brA2: 1st floor: any new carpet installed



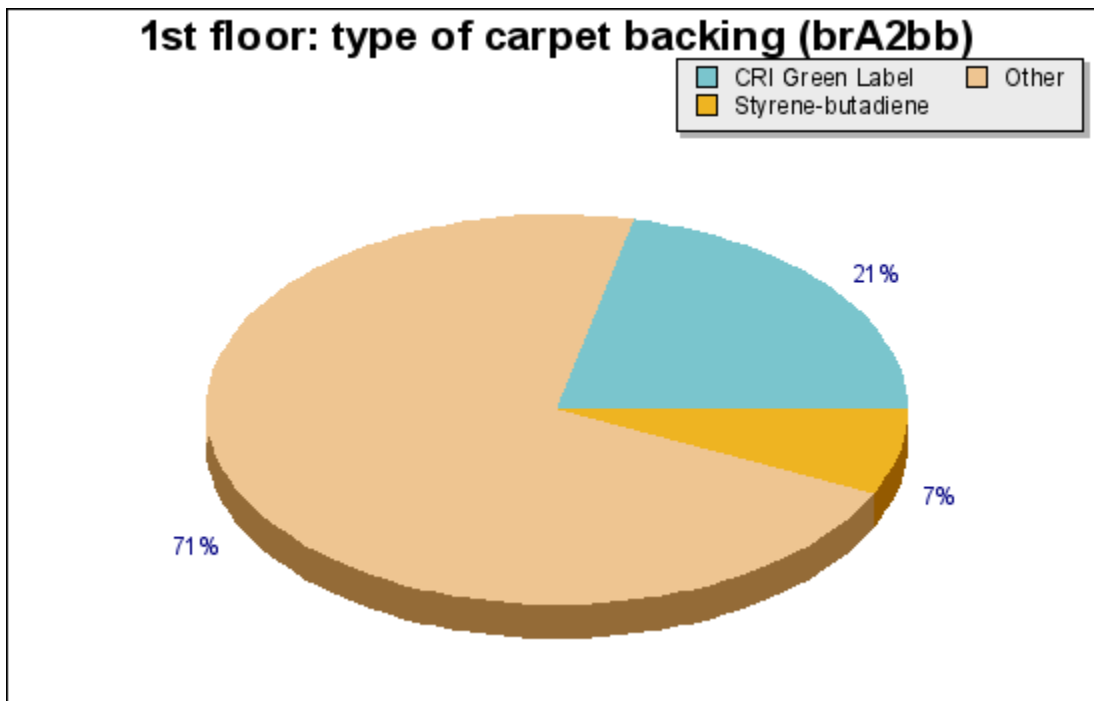
Question brA2b_1: 1st floor: new carpet type-natural fiber



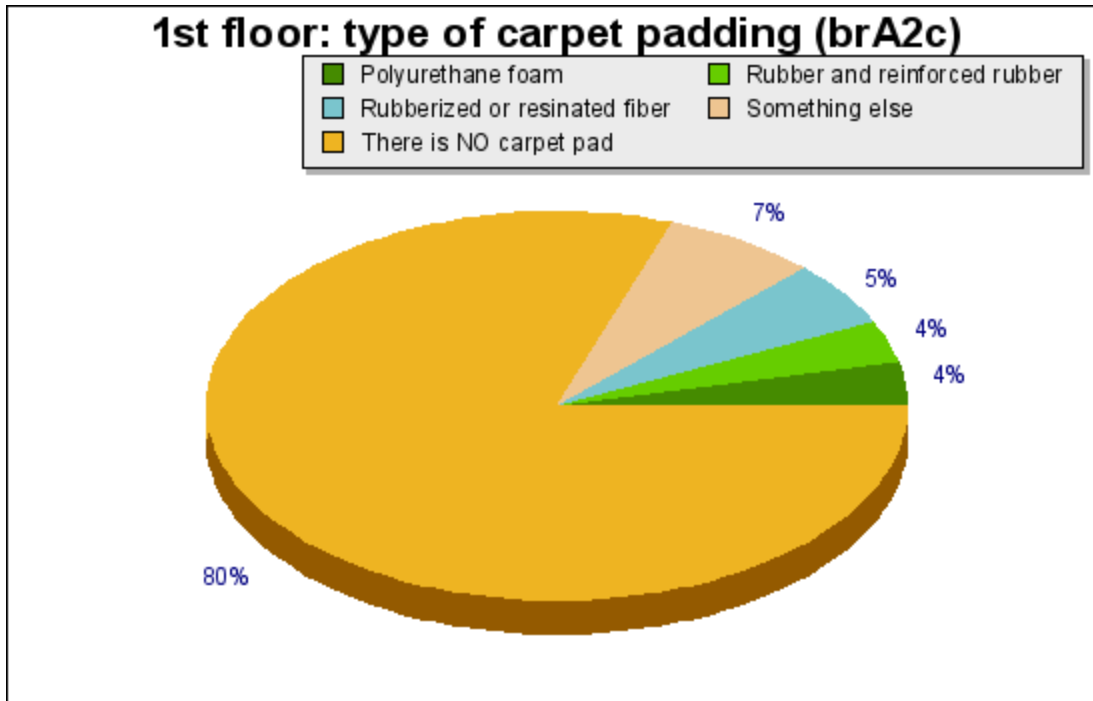
Question brA2b_2: 1st floor: new carpet type-nylon



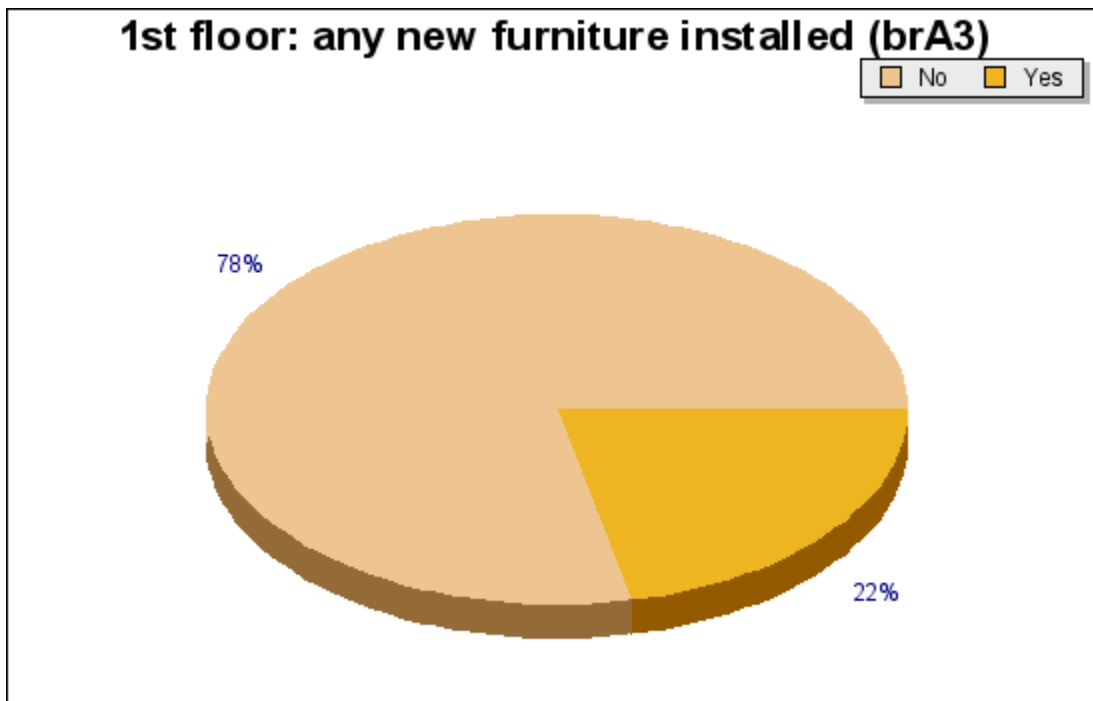
Question brA2b_3: 1st floor: new carpet type-olefin



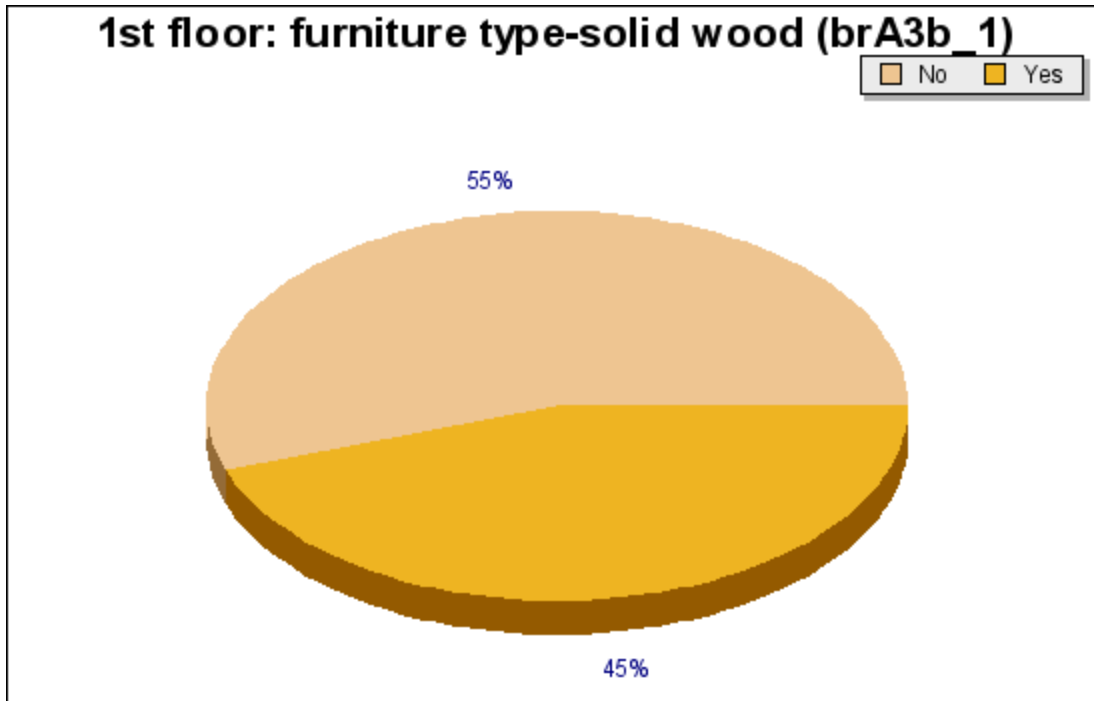
Question brA2bb: 1st floor: type of carpet backing



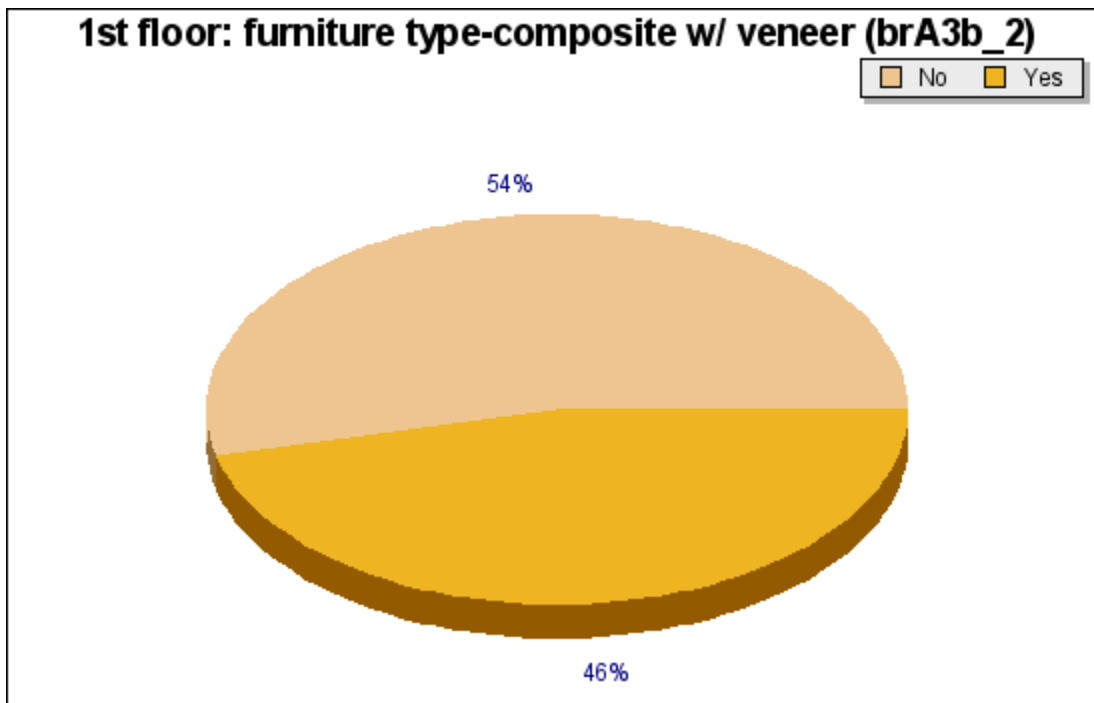
Question brA2c: 1st floor: type of carpet padding



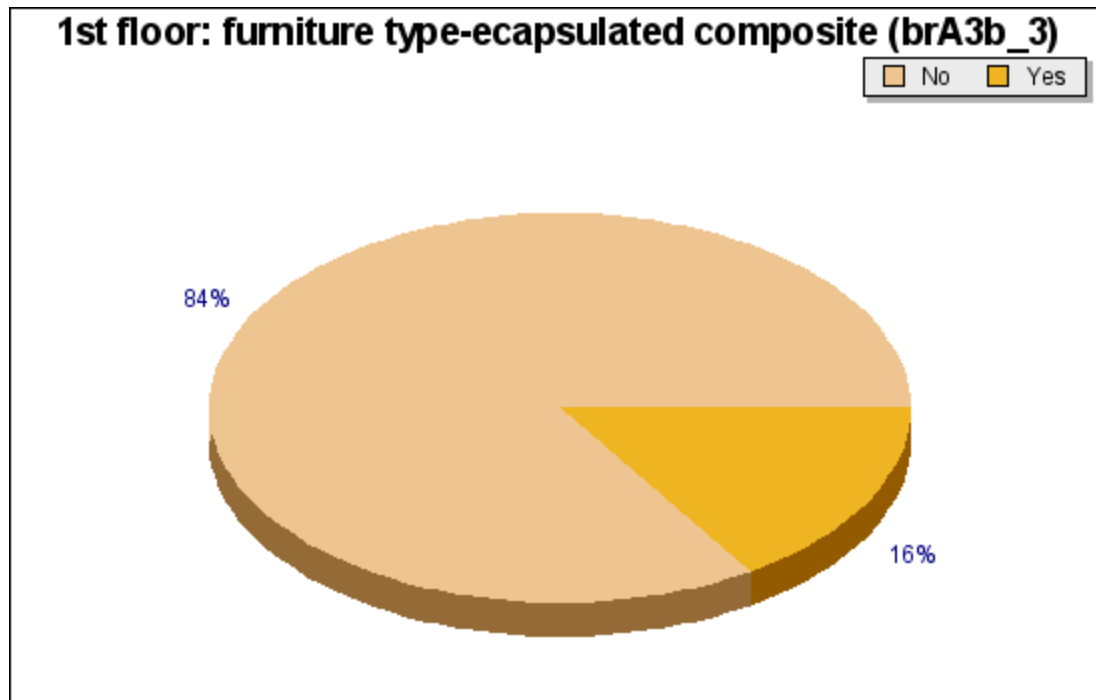
Question brA3: 1st floor: any new furniture installed



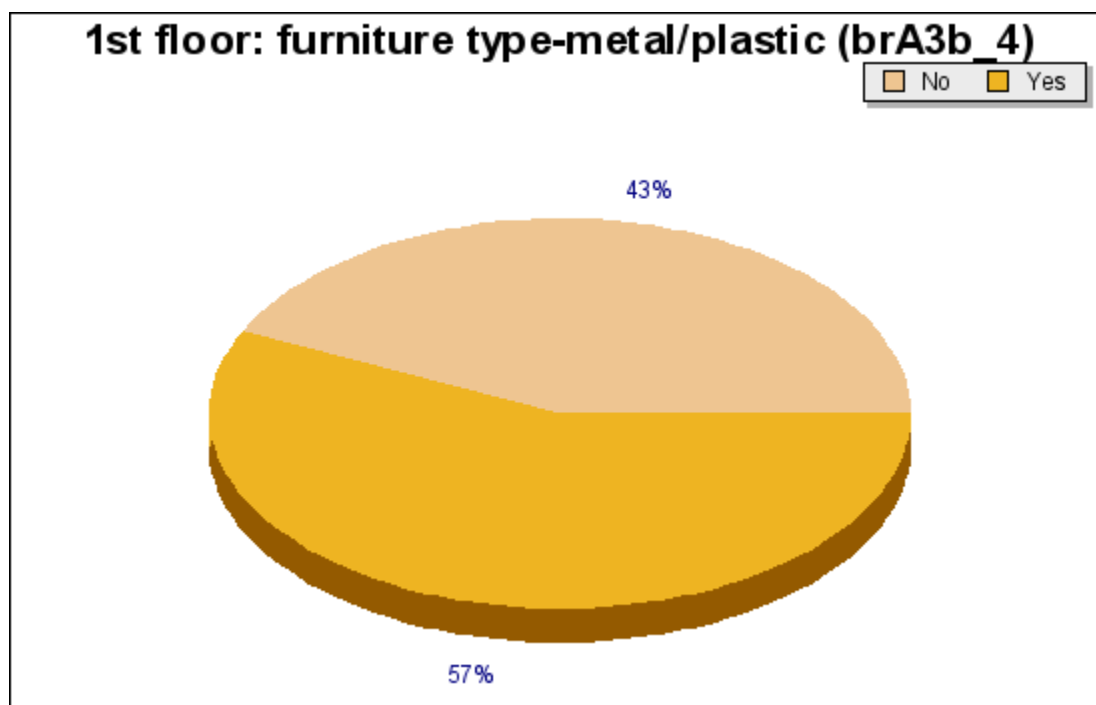
Question brA3b_1: 1st floor: furniture type-solid wood



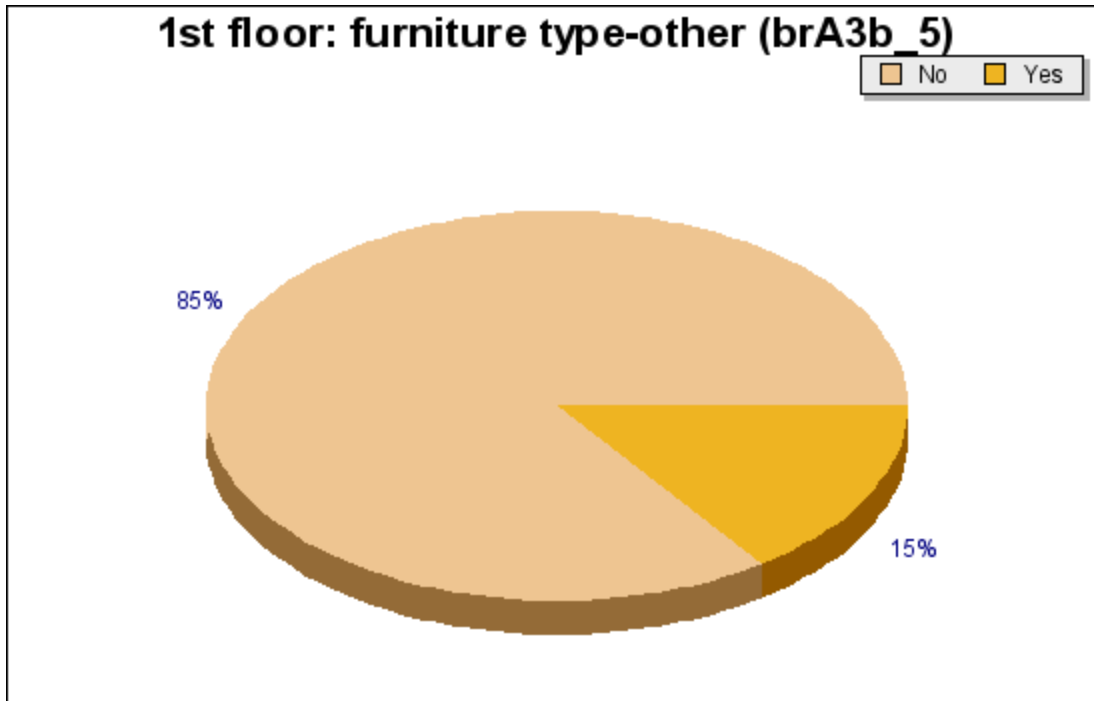
Question brA3b_2: 1st floor: furniture type-composite w/ veneer



Question brA3b_3: 1st floor: furniture type-ecapsulated composite



Question brA3b_4: 1st floor: furniture type-metal/plastic

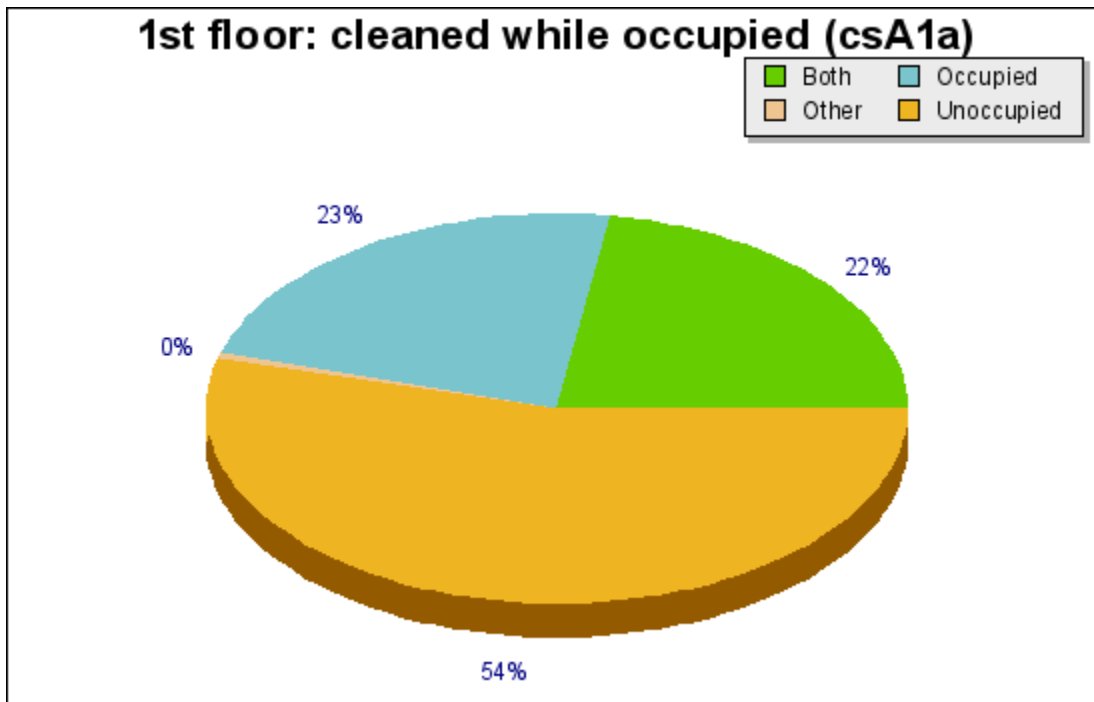


Question brA3b_5: 1st floor: furniture type-other

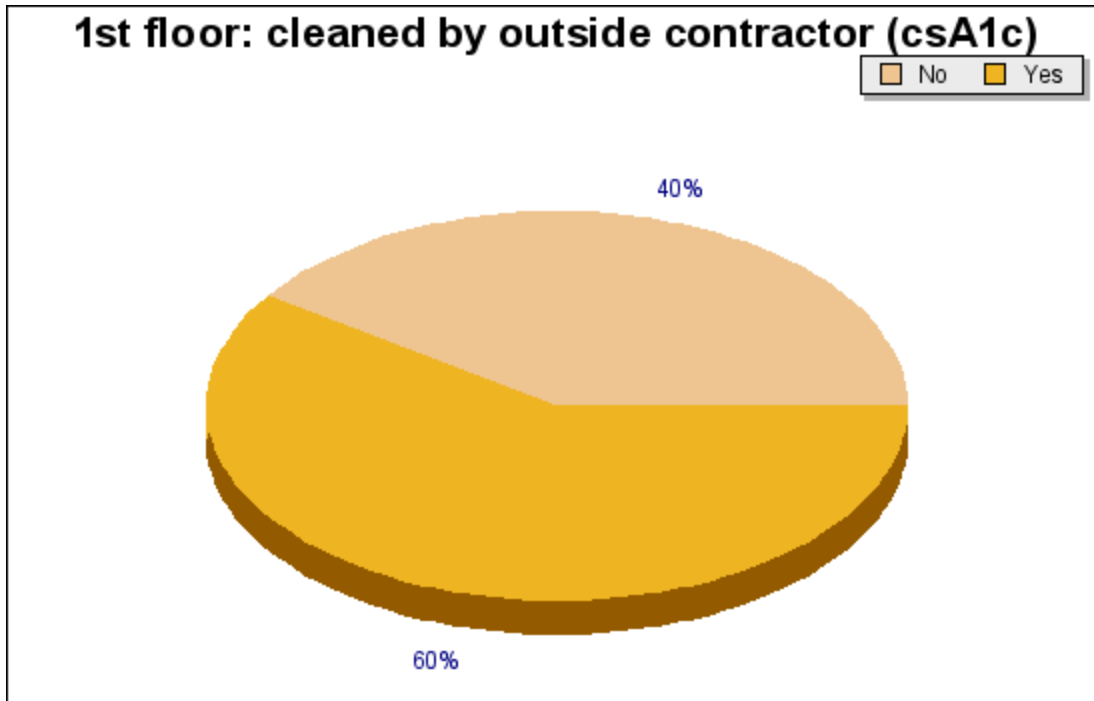
Cleaning Schedule: 1st Floor



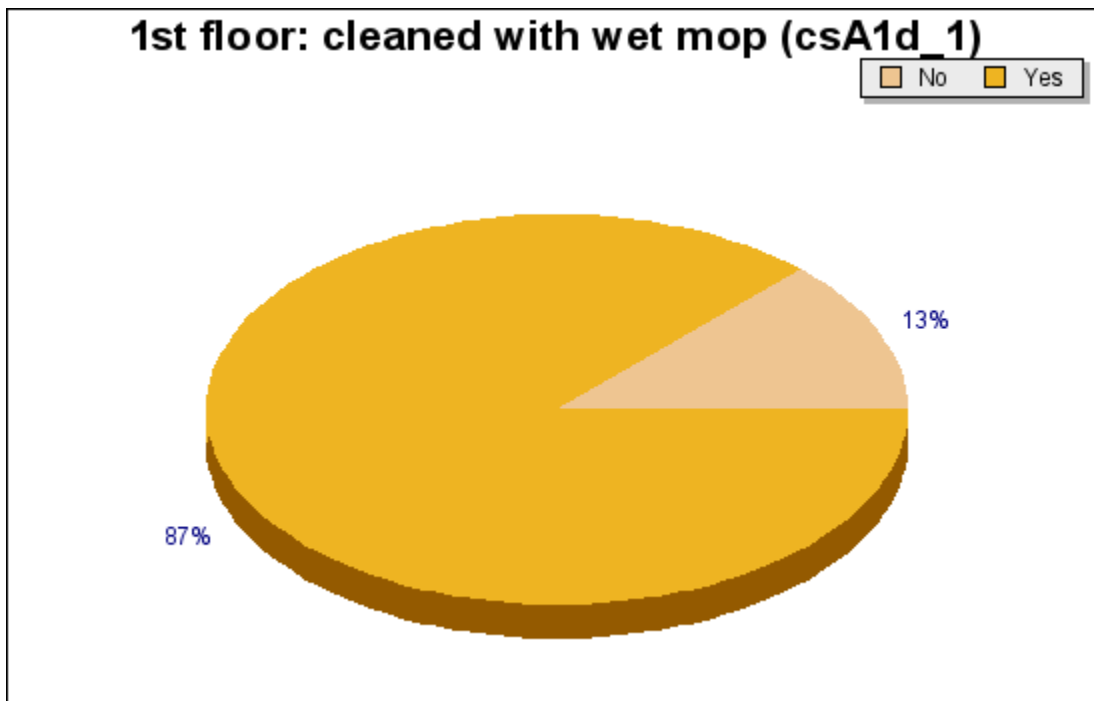
Question csA1: 1st floor: cleaned on regular schedule



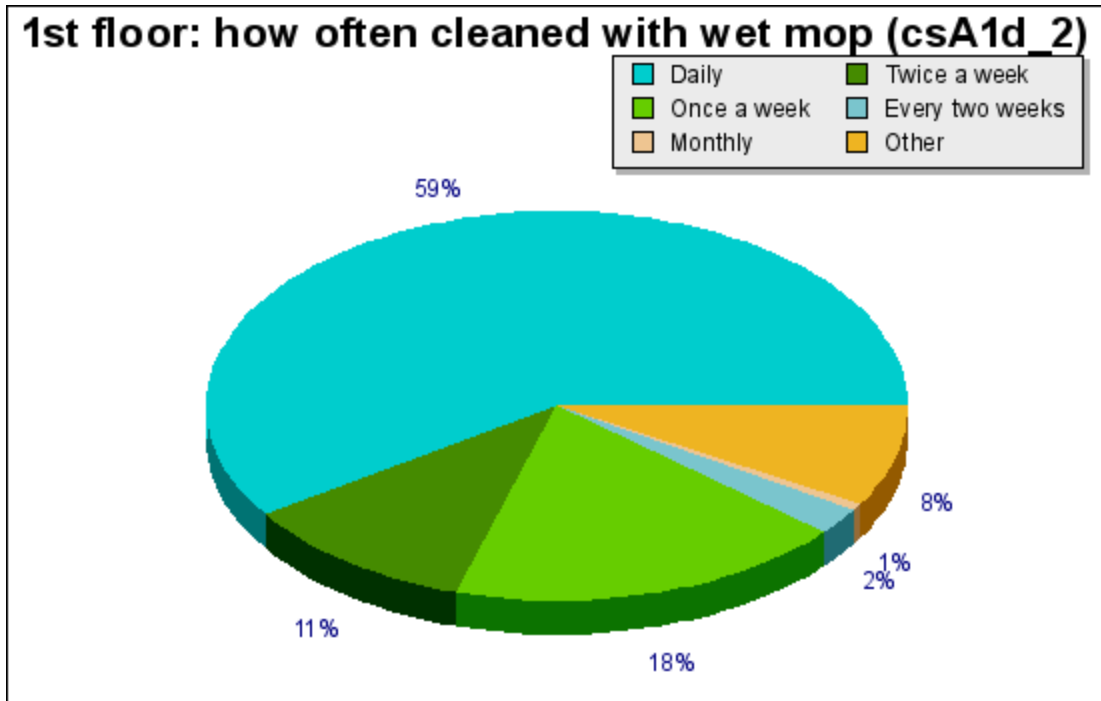
Question csA1a: 1st floor: cleaned while occupied



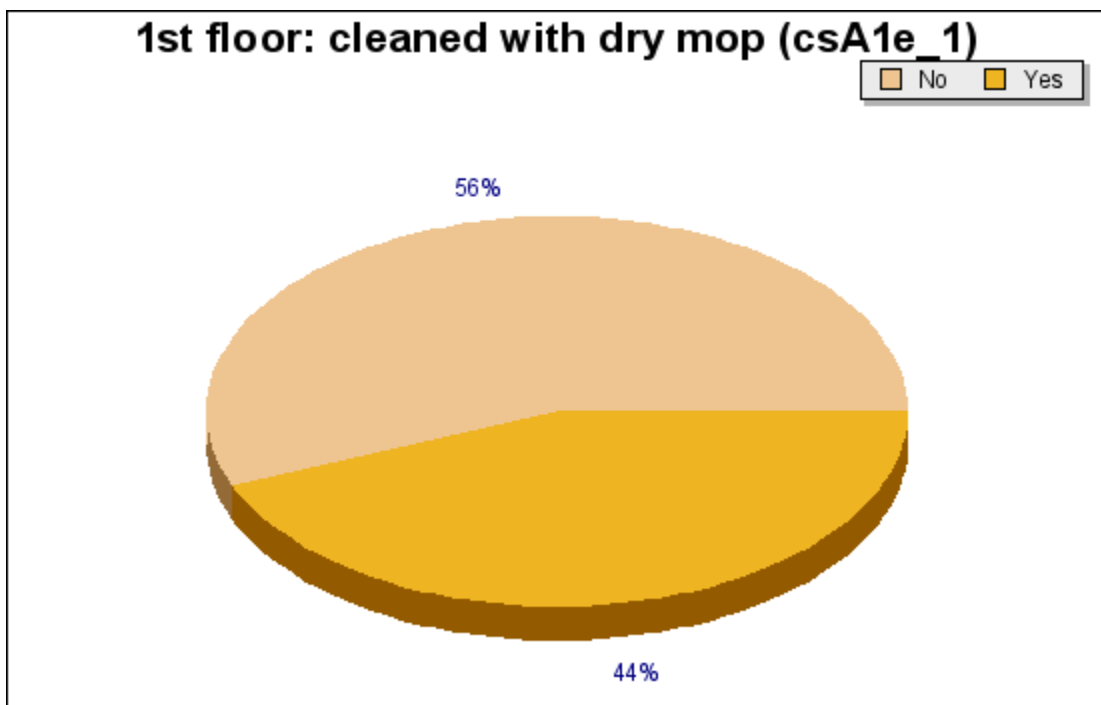
Question csA1c: 1st floor: cleaned by outside contractor



Question csA1d_1: 1st floor: cleaned with wet mop

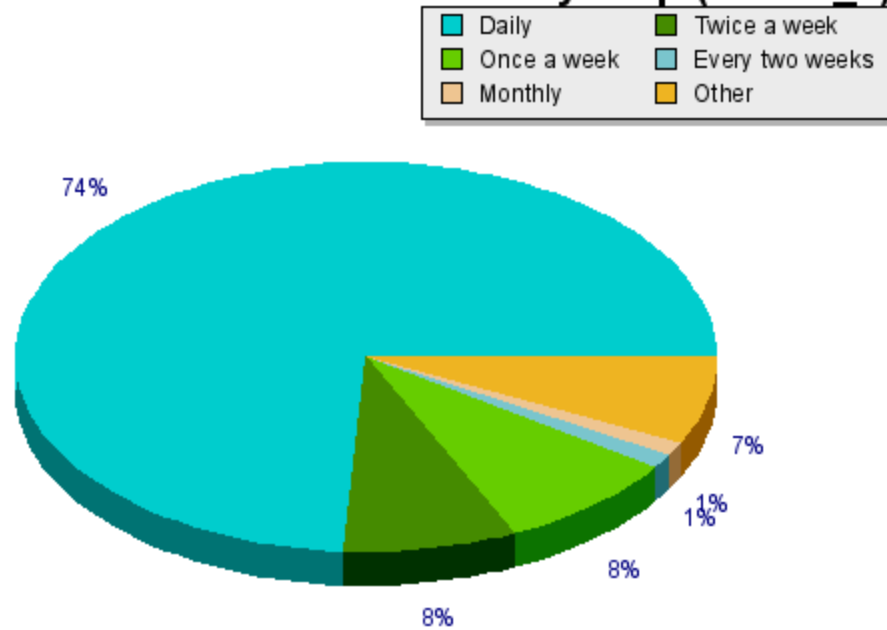


Question csA1d_2: 1st floor: how often cleaned with wet mop



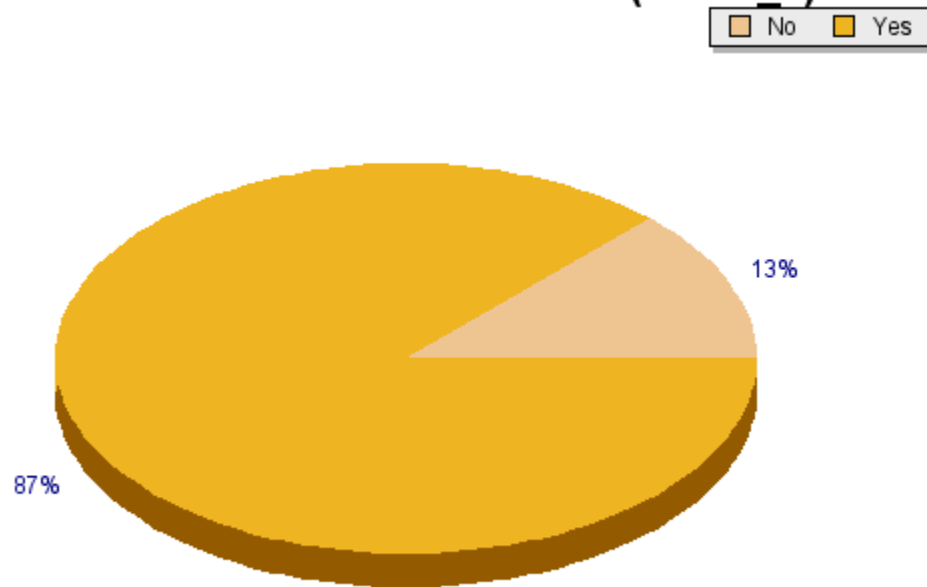
Question csA1e_1: 1st floor: cleaned with dry mop

1st floor: how often cleaned with dry mop (csA1e_2)

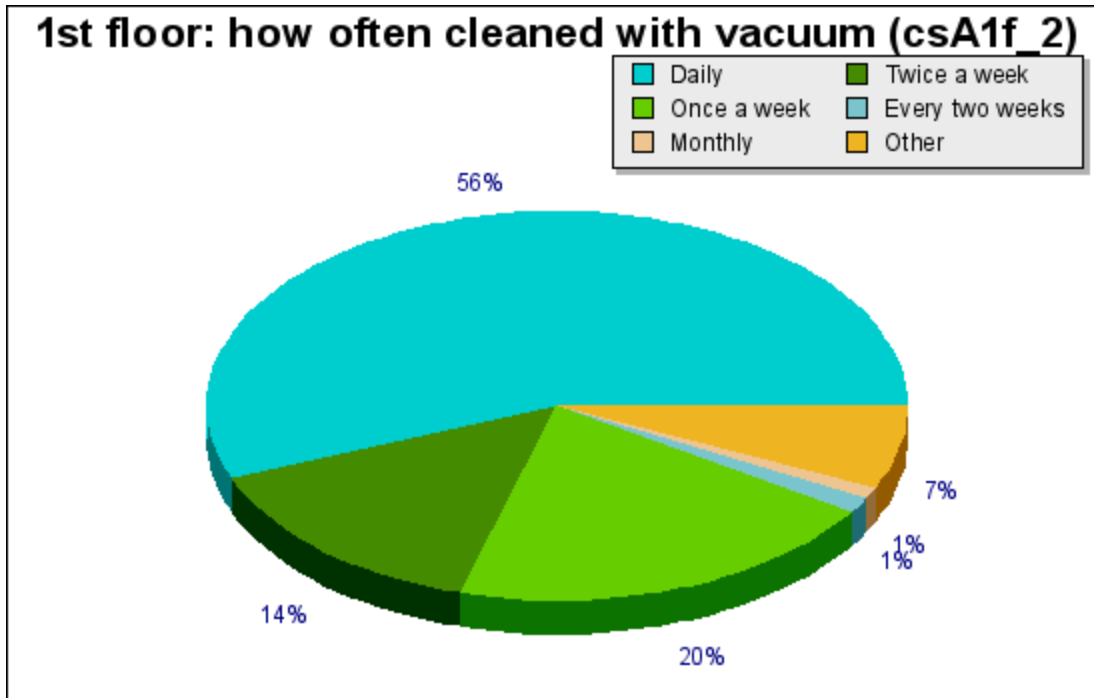


Question csA1e_2: 1st floor: how often cleaned with dry mop

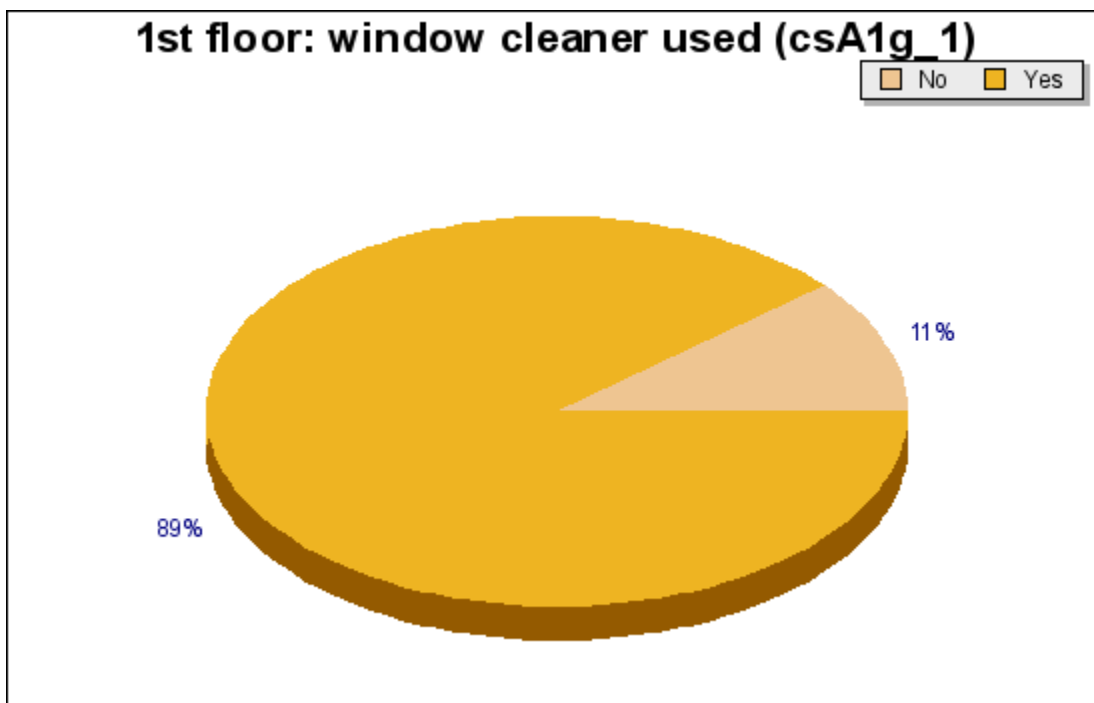
1st floor: cleaned with vacuum (csA1f_1)



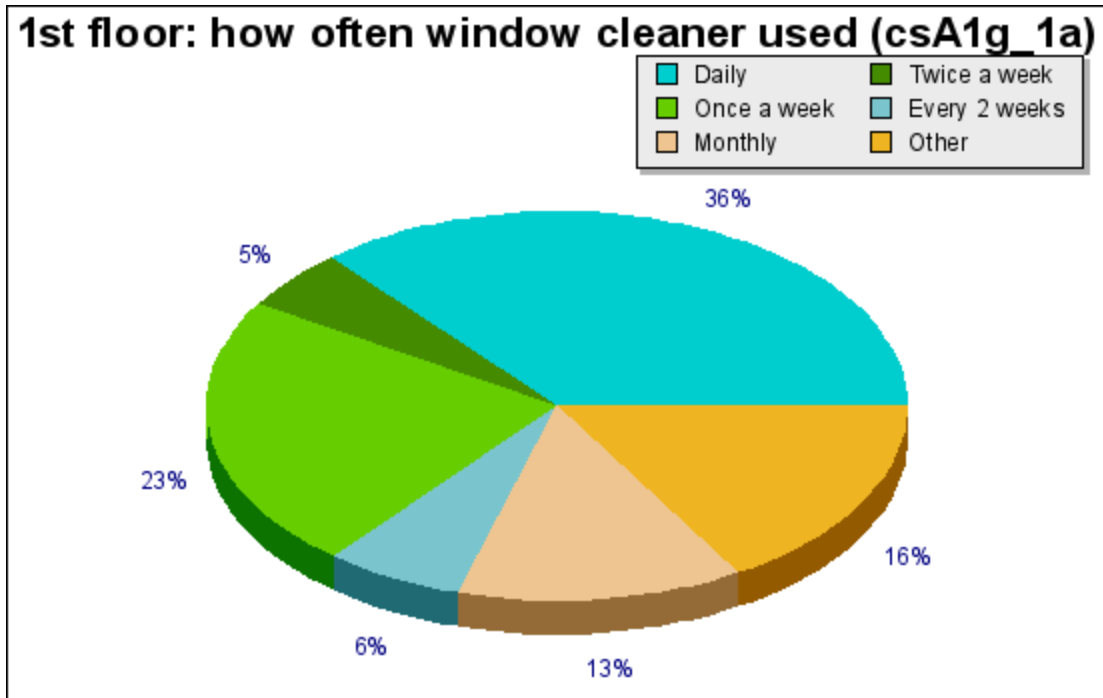
Question csA1f_1: 1st floor: cleaned with vacuum



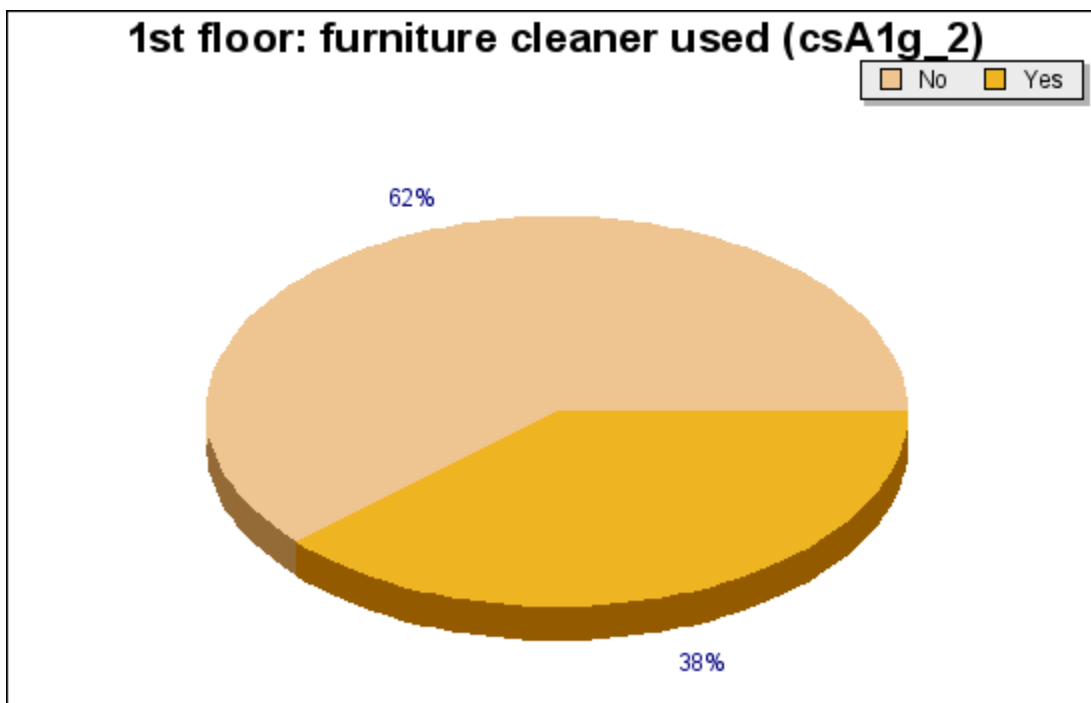
Question csA1f_2: 1st floor: how often cleaned with vacuum



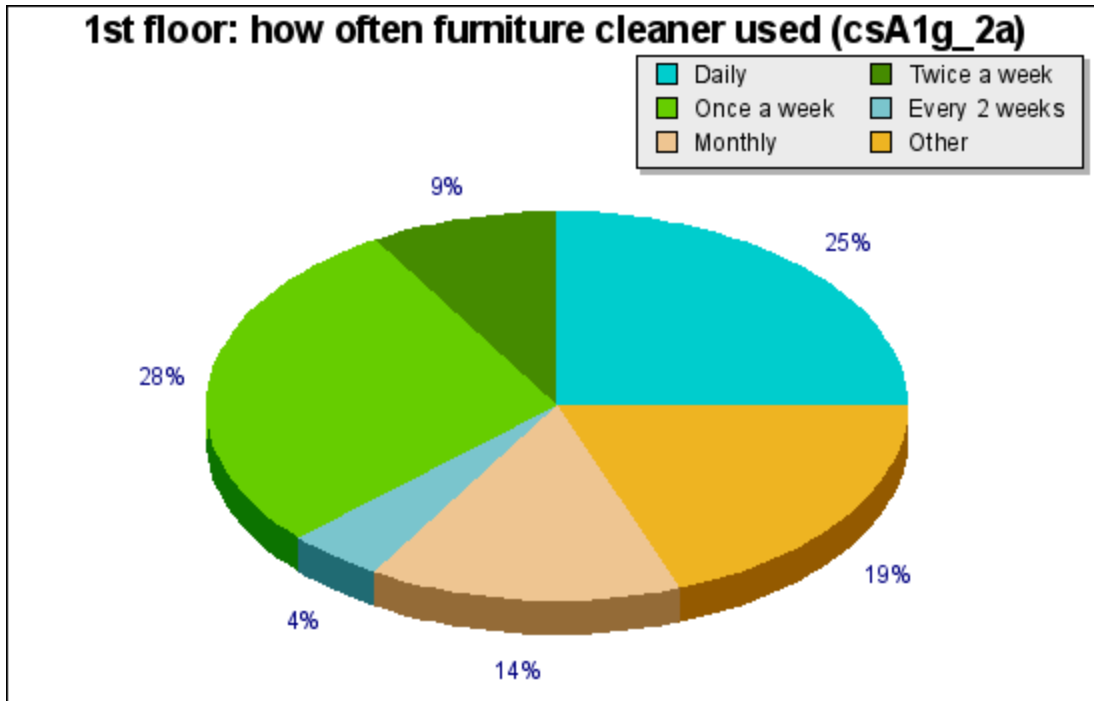
Question csA1g_1: 1st floor: window cleaner used



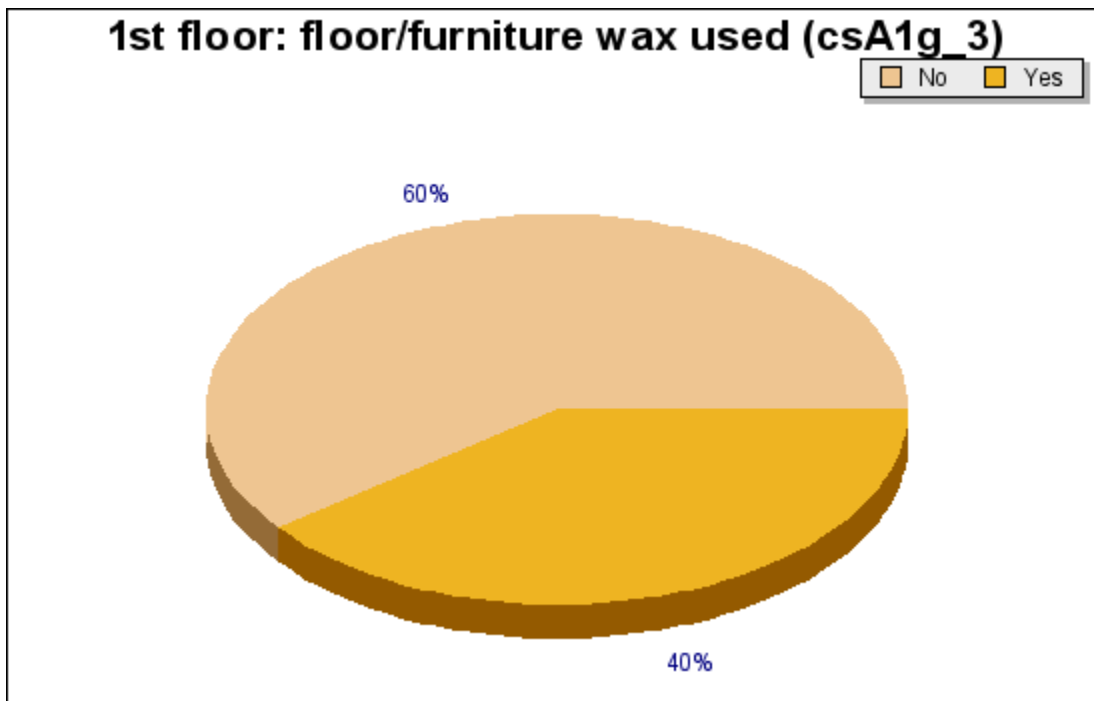
Question csA1g_1a: 1st floor: how often window cleaner used



Question csA1g_2: 1st floor: furniture cleaner used

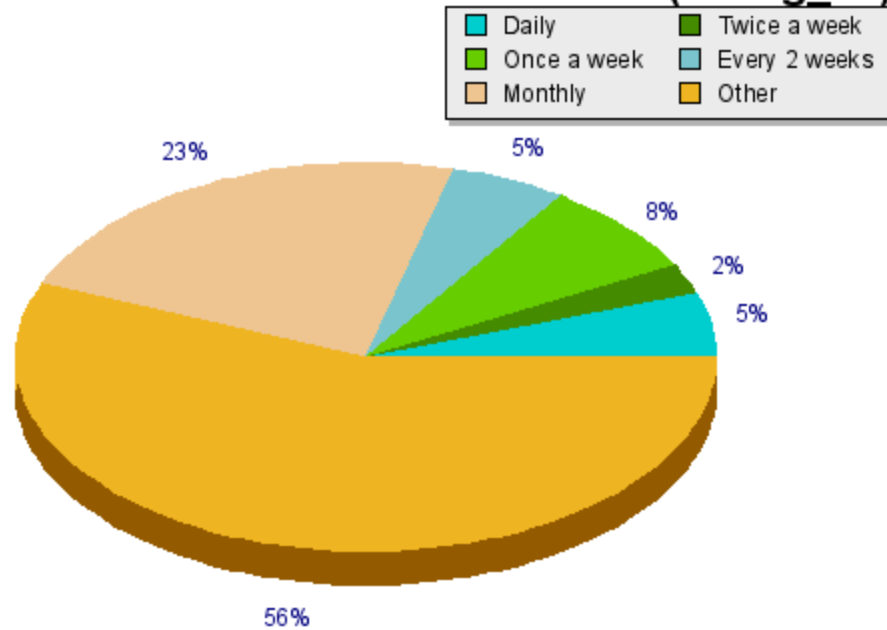


Question csA1g_2a: 1st floor: how often furniture cleaner used



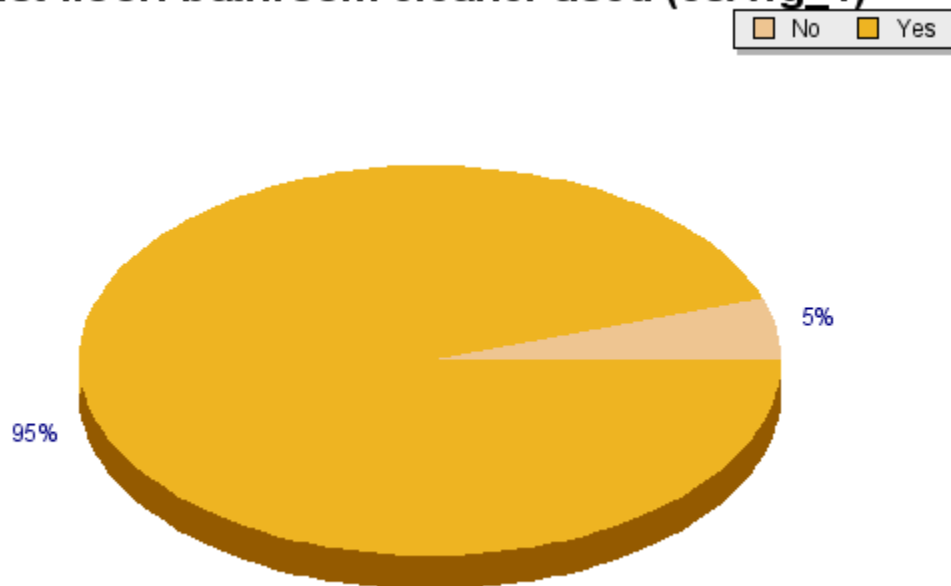
Question csA1g_3: 1st floor: floor/furniture wax used

1st floor: how often floor/furn. wax used (csA1g_3a)



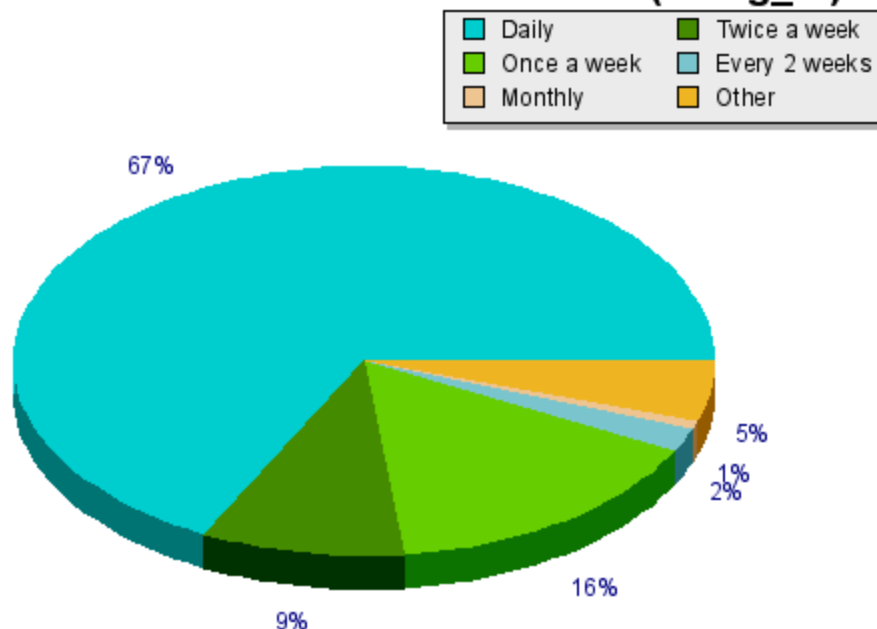
Question csA1g_3a: 1st floor: how often floor/furn. wax used

1st floor: bathroom cleaner used (csA1g_4)



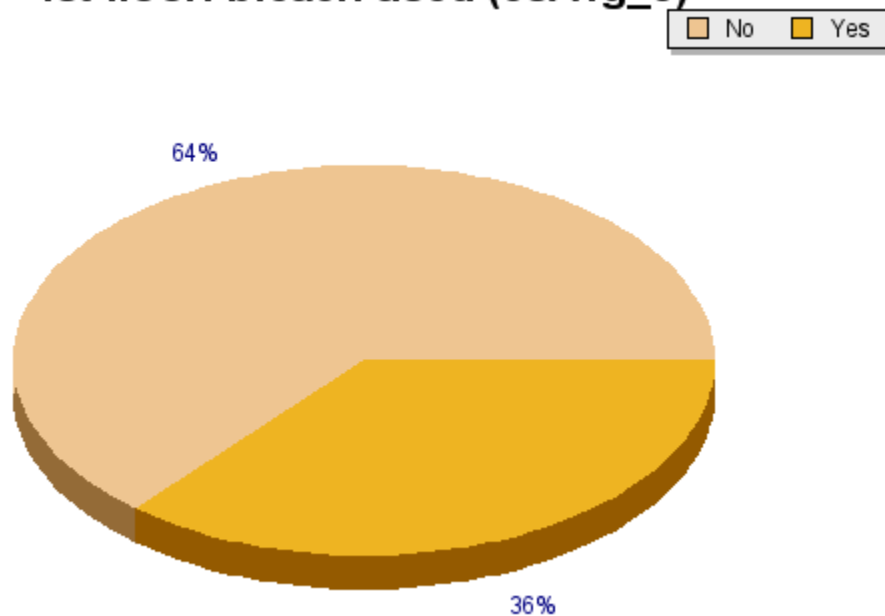
Question csA1g_4: 1st floor: bathroom cleaner used

1st floor: how often bathroom cleaner used (csA1g_4a)

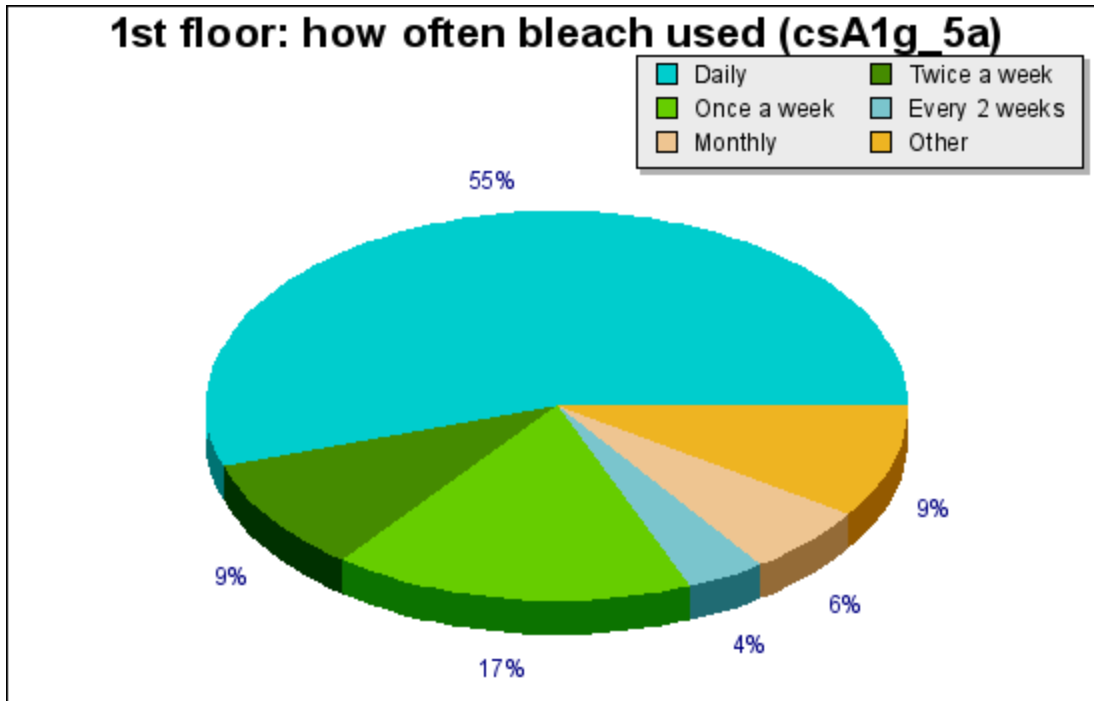


Question csA1g_4a: 1st floor: how often bathroom cleaner used

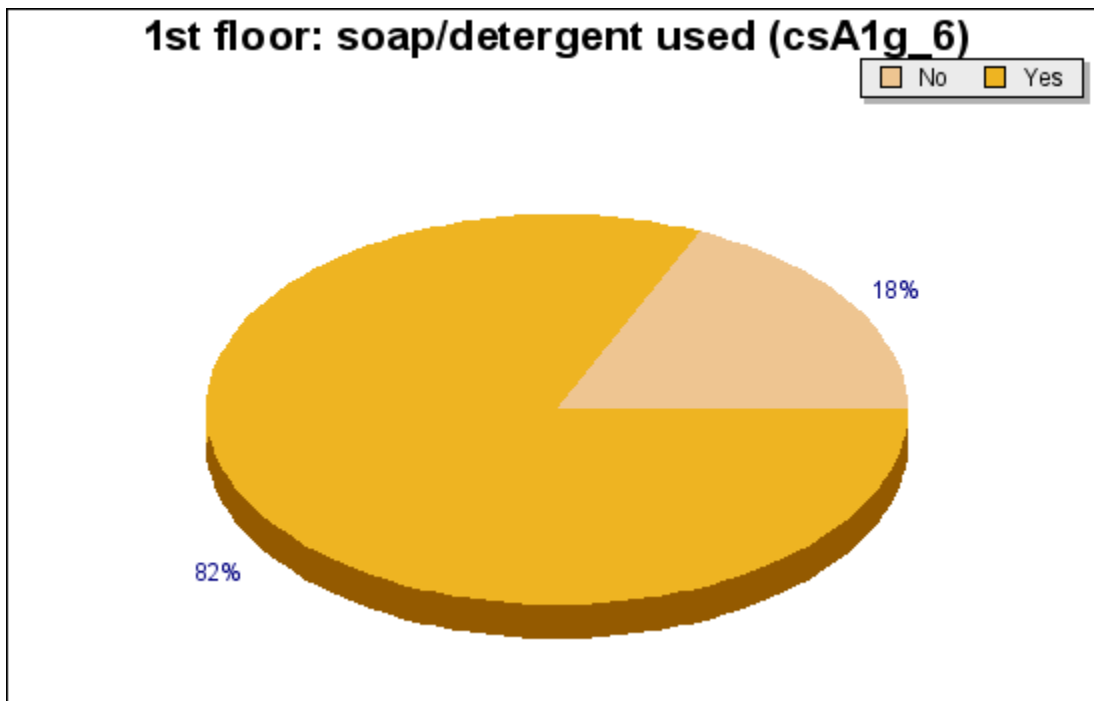
1st floor: bleach used (csA1g_5)



Question csA1g_5: 1st floor: bleach used

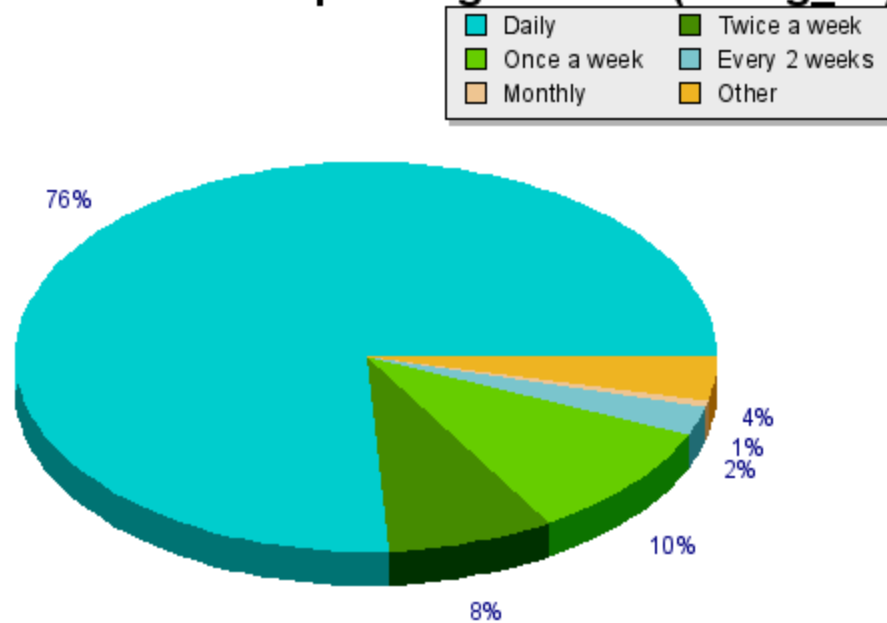


Question csA1g_5a: 1st floor: how often bleach used



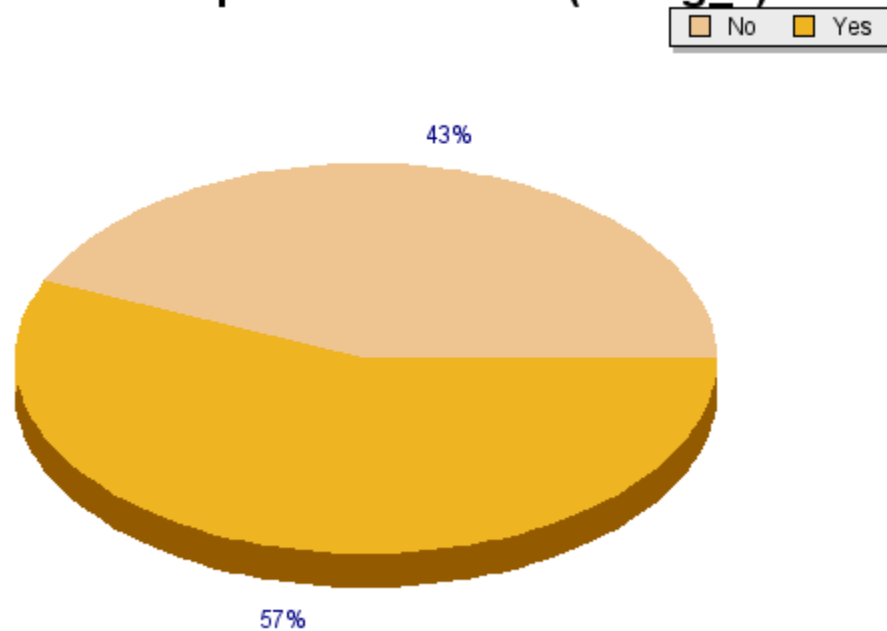
Question csA1g_6: 1st floor: soap/detergent used

1st floor: how often soap/detergent used (csA1g_6a)



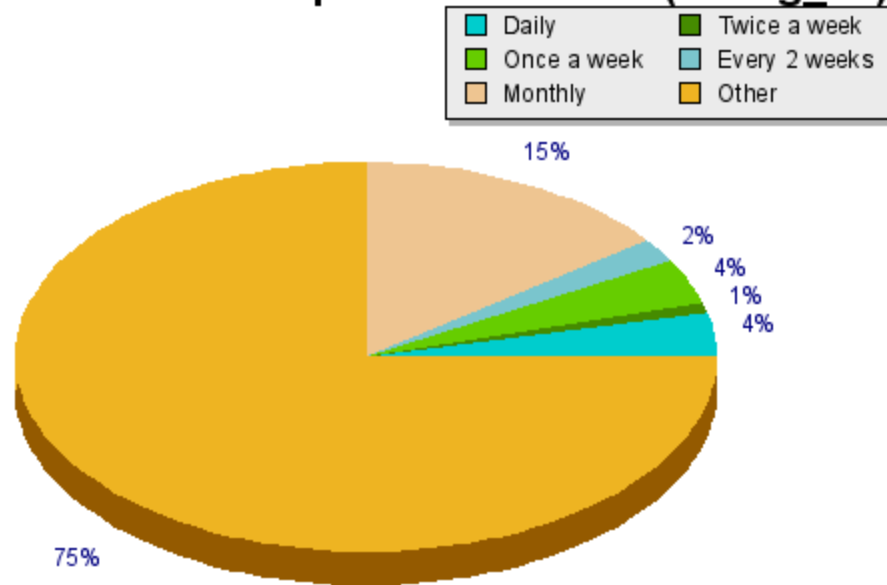
Question csA1g_6a: 1st floor: how often soap/detergent used

1st floor: carpet cleaner used (csA1g_7)



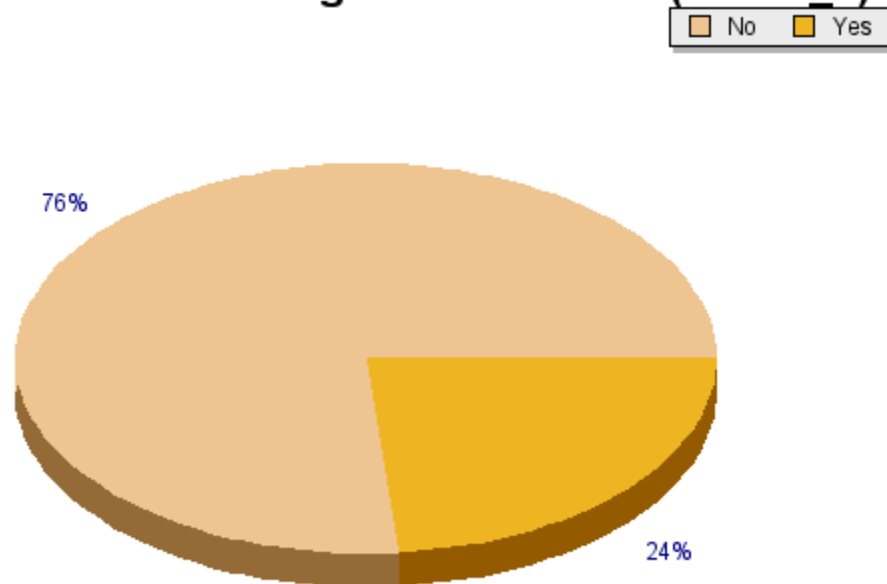
Question csA1g_7: 1st floor: carpet cleaner used

1st floor: how often carpet cleaner used (csA1g_7a)



Question csA1g_7a: 1st floor: how often carpet cleaner used

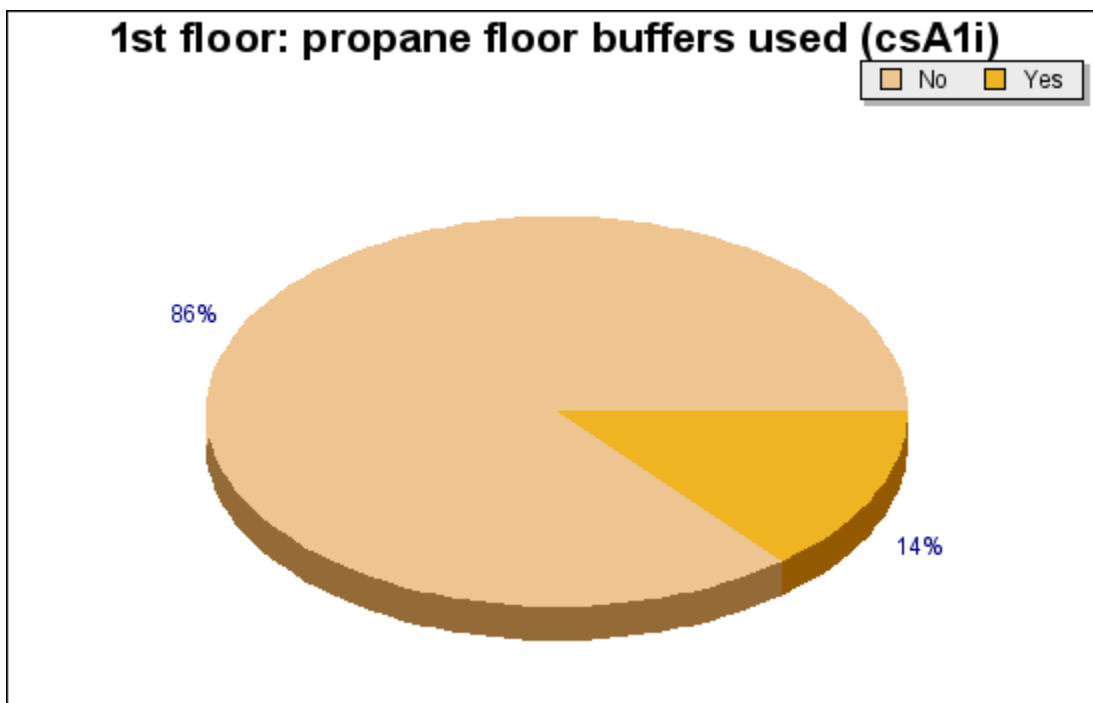
1st floor: other cleaning materials used (csA1h_1)



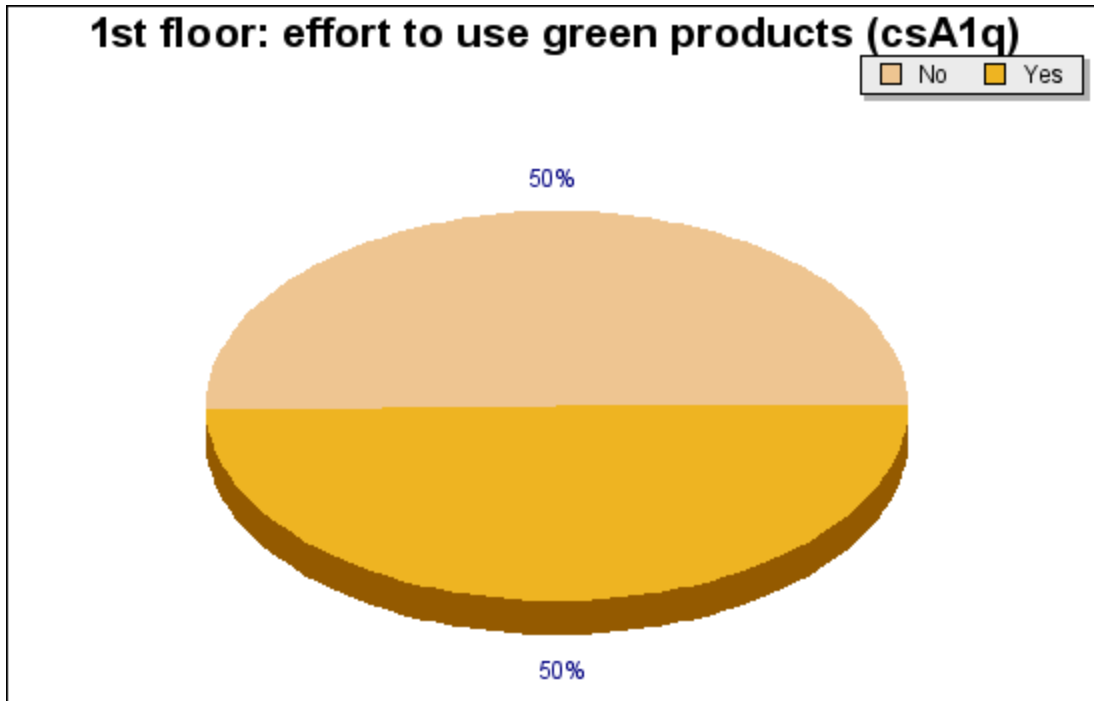
Question csA1h_1: 1st floor: other cleaning materials used

1st floor: describe other cleaning materials (csA1h_2)	
	409//
	Air fresheners and all-purpose cleaners.//
	Ajax for bathroom
	ammonia
duct//	antiseptic
se-by-case basis	basic dusting, dishwash soap//
ve blood- Spray 9.//	bio degradable de greaser//
	calvisic wipes for dental svcs
	car wash and detail materials//
	Chlorine-based sanitizing solution.//
	cleaning solvents in shop//
purpose cleaners,	clorox wipes//
on the tables	clorox wipes, but can be used on carpet. gets rid of spot removal
	costco brand wipes//
	degreaser,//
	degreaser and oven cleaner
	degreaser, multi-purpose solution of some sort//
Equalab//	de-greasers (?), industrial floor scrubber//
	delimer, sanitizer
	disinfectant

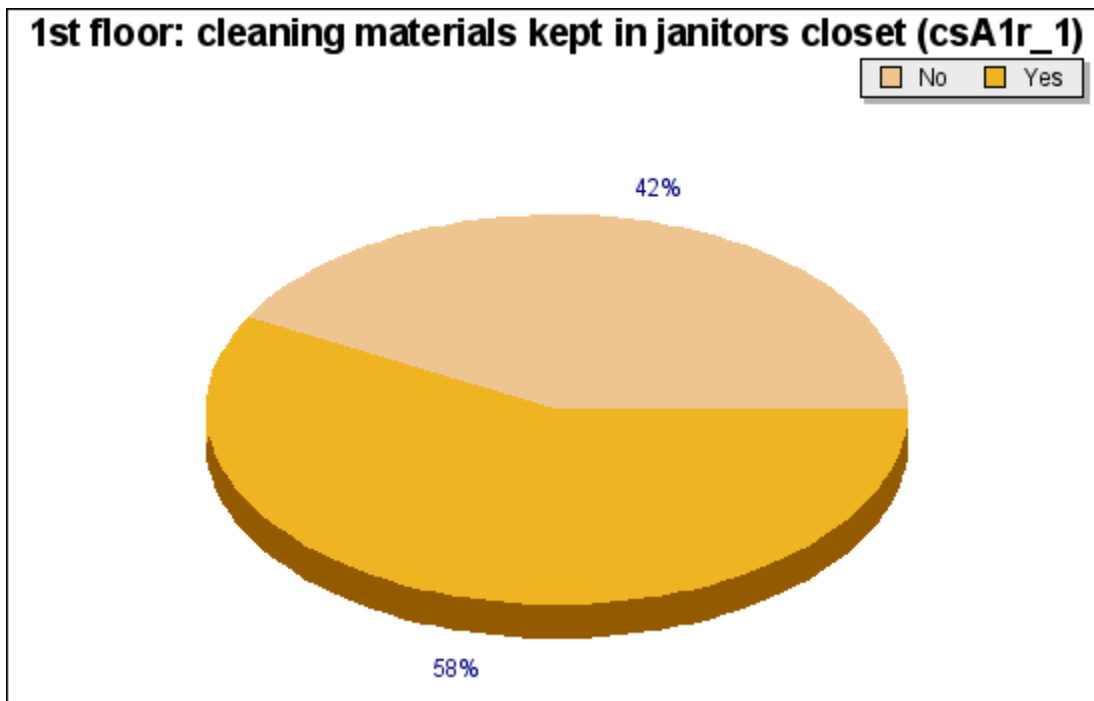
Question csA1h_2: 1st floor: describe other cleaning materials



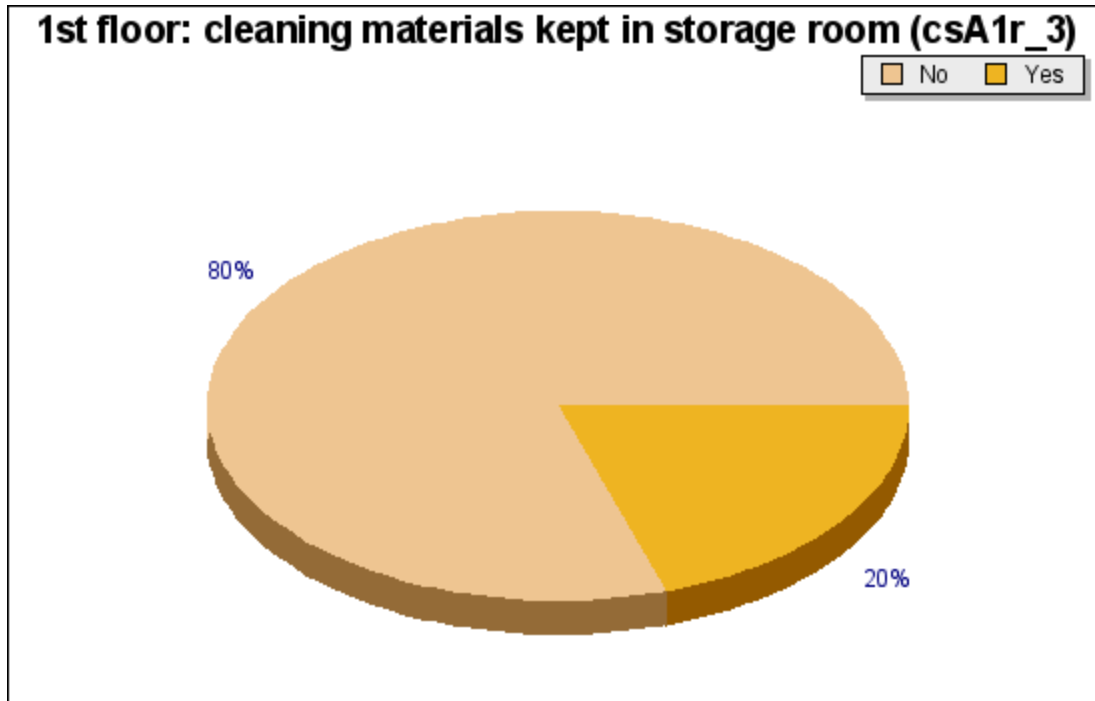
Question csA1i: 1st floor: propane floor buffers used



Question csA1q: 1st floor: effort to use green products

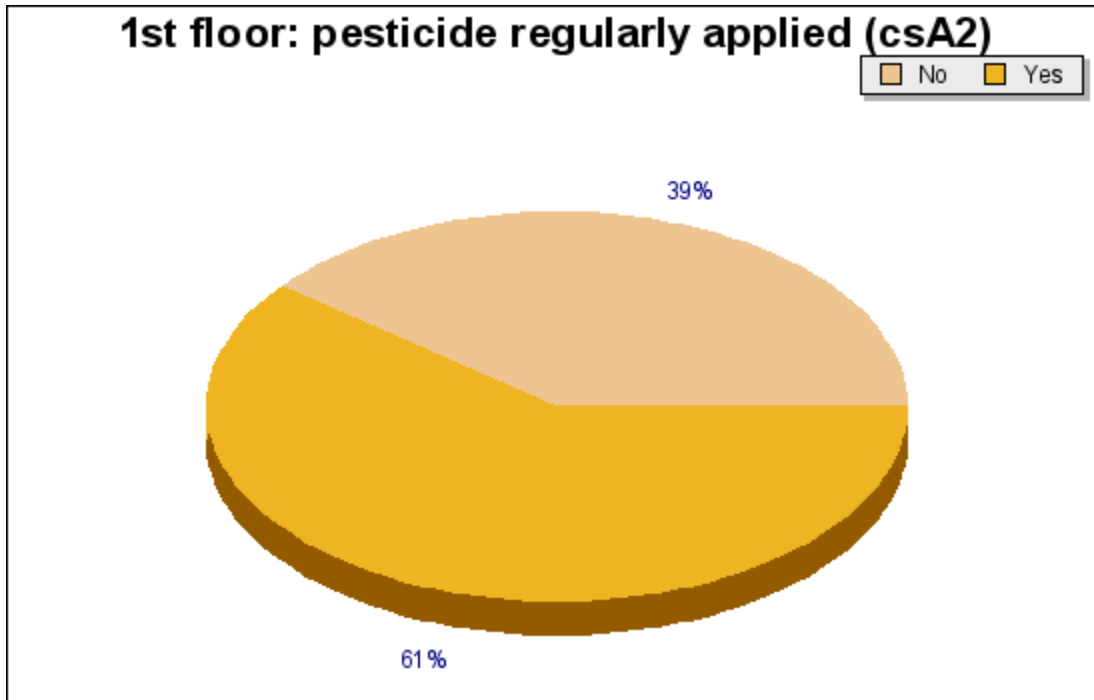


Question csA1r_1: 1st floor: cleaning materials kept in janitors closet



Question csA1r_3: 1st floor: cleaning materials kept in storage room

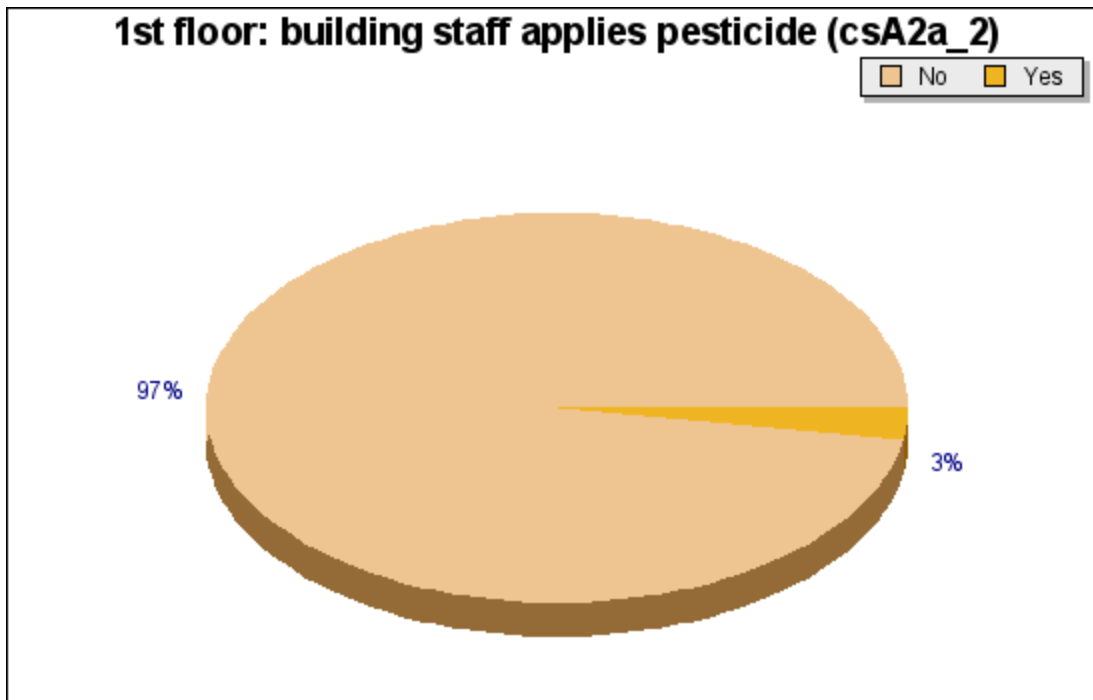
Regular Interior/exterior Pesticide: 1st Floor



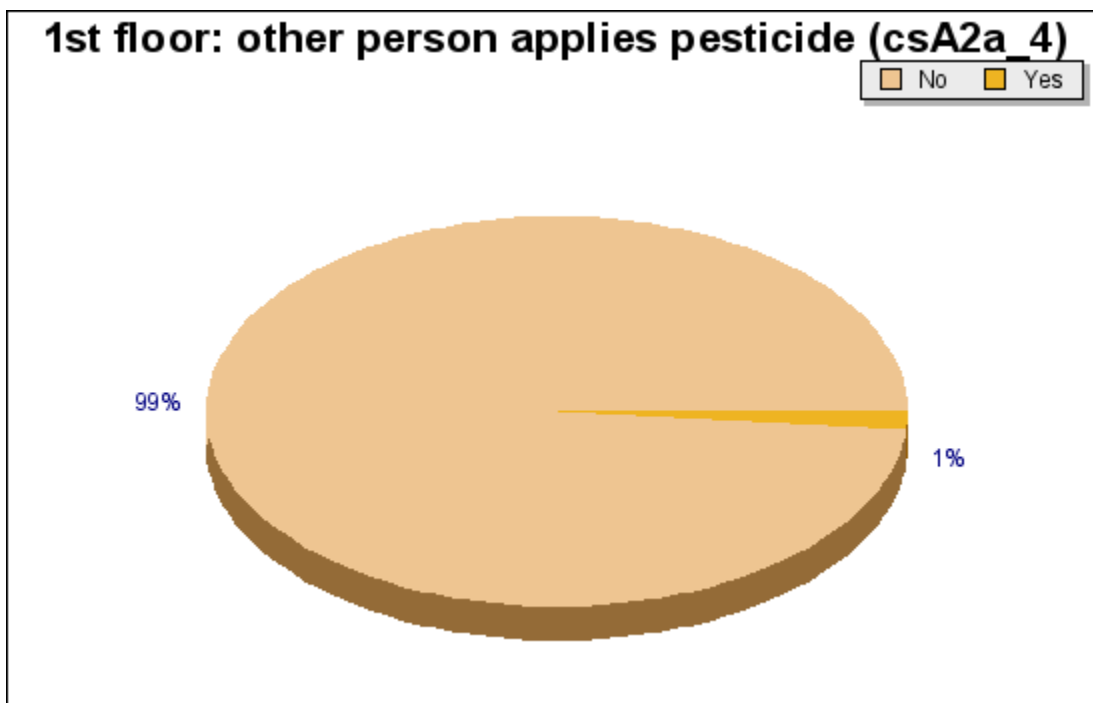
Question csA2: 1st floor: pesticide regularly applied



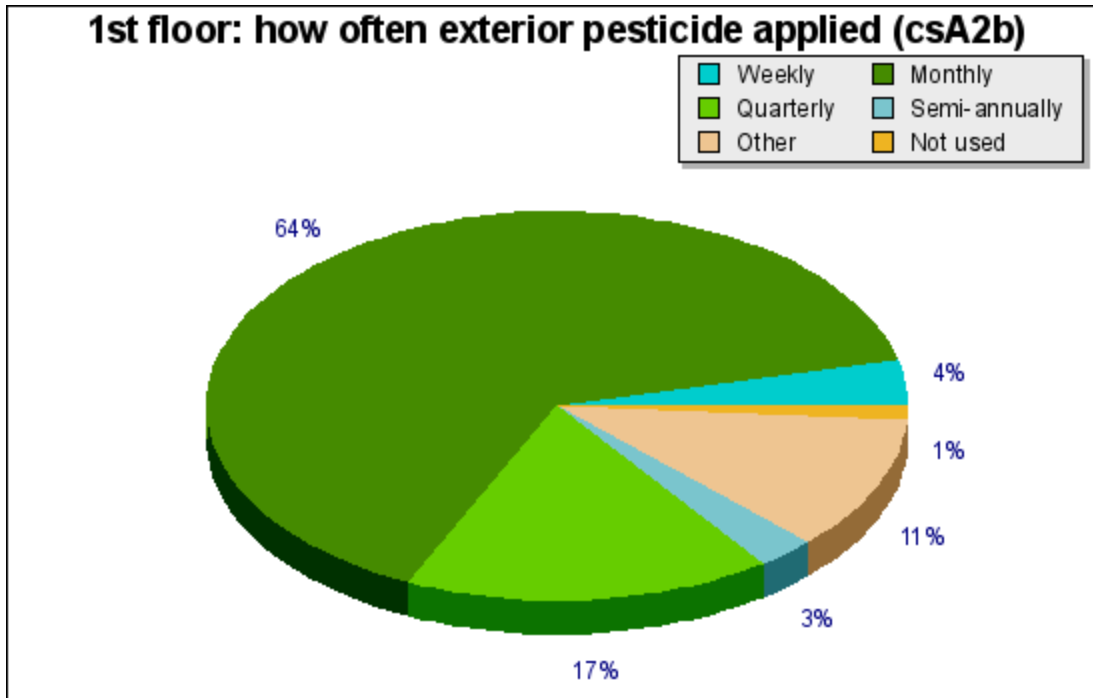
Question csA2a_1: 1st floor: outside contractor applies pesticide



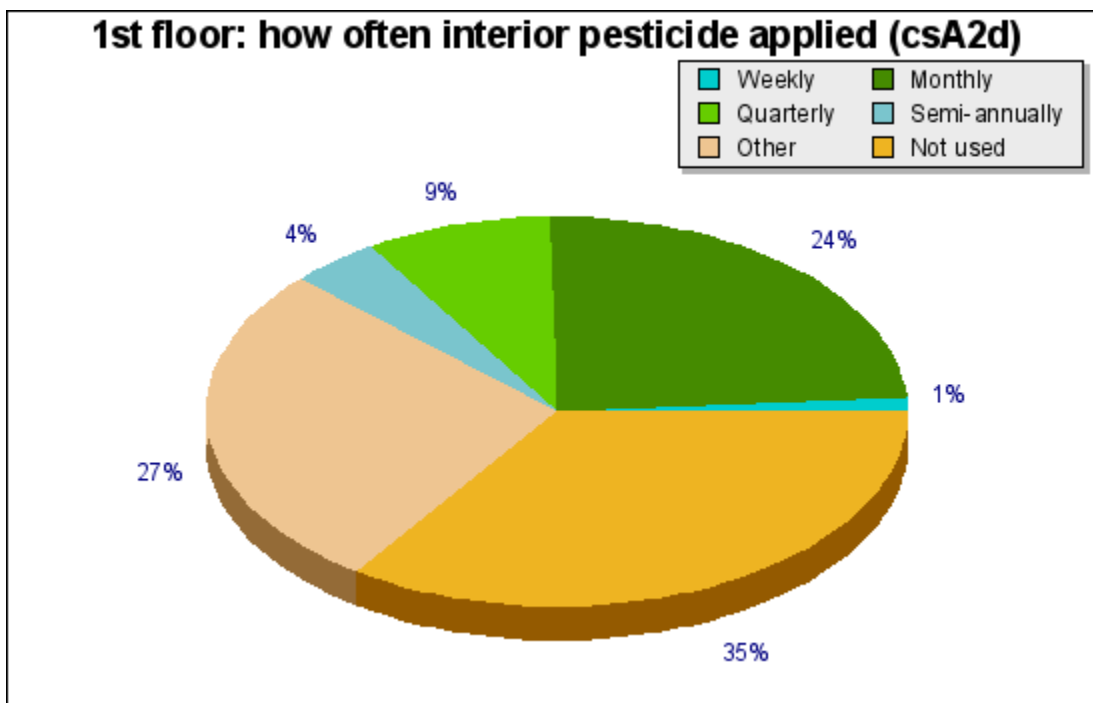
Question csA2a_2: 1st floor: building staff applies pesticide



Question csA2a_4: 1st floor: other person applies pesticide

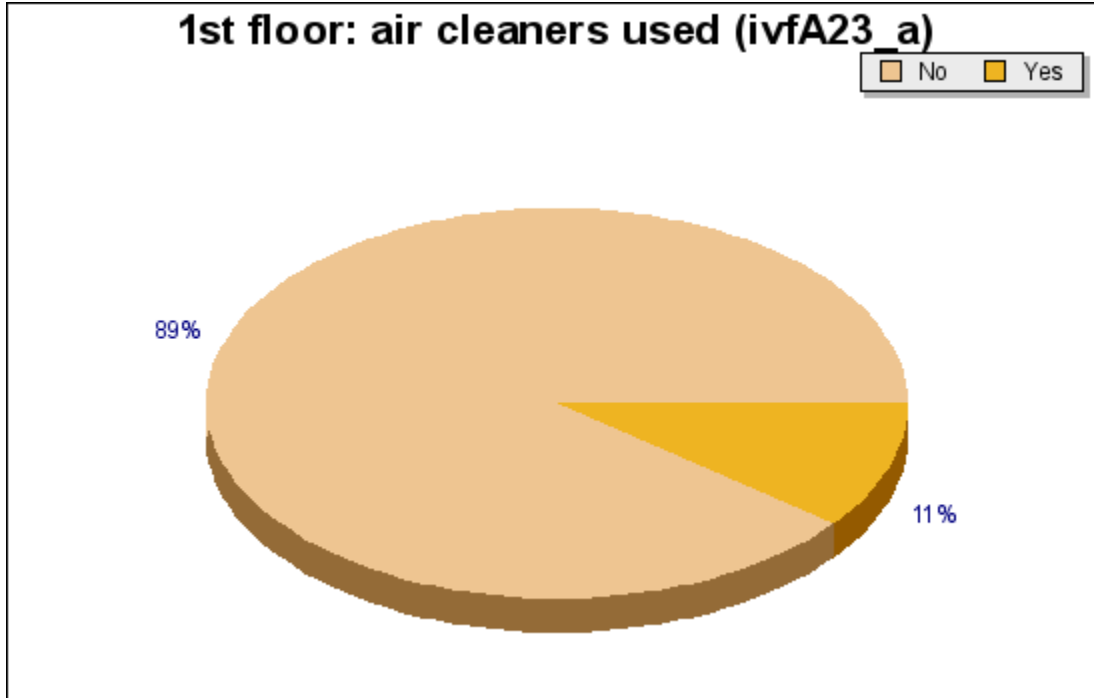


Question csA2b: 1st floor: how often exterior pesticide applied

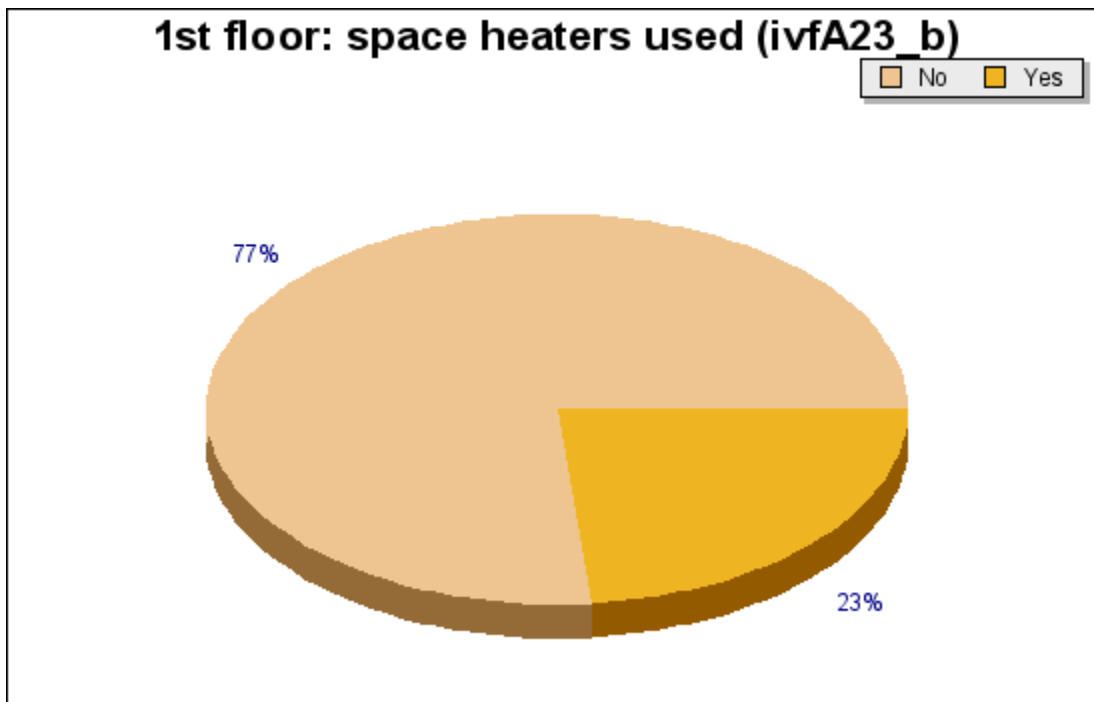


Question csA2d: 1st floor: how often interior pesticide applied

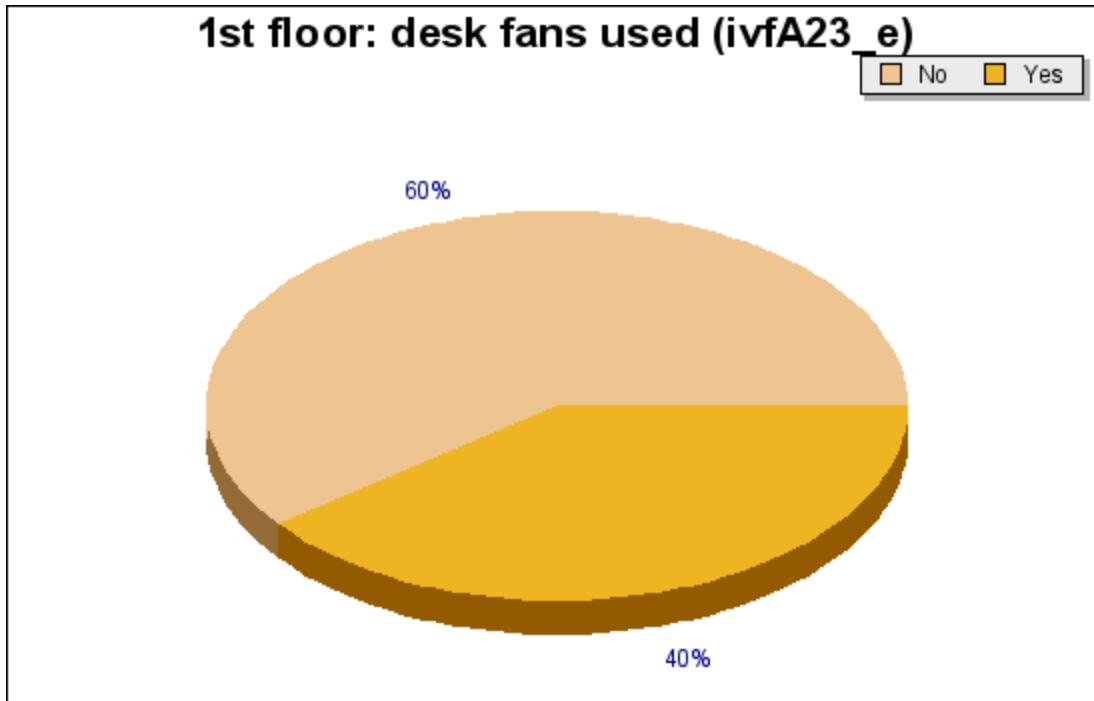
Indoor Ventilation Fixtures: 1st Floor



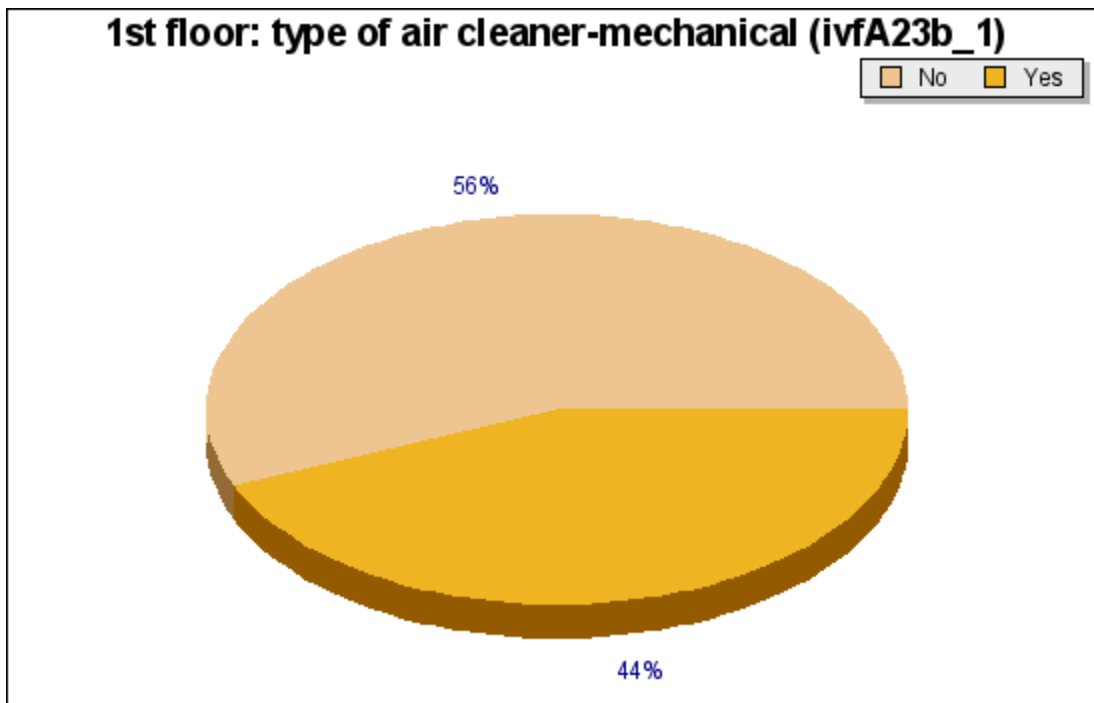
Question ivfA23_a: 1st floor: air cleaners used



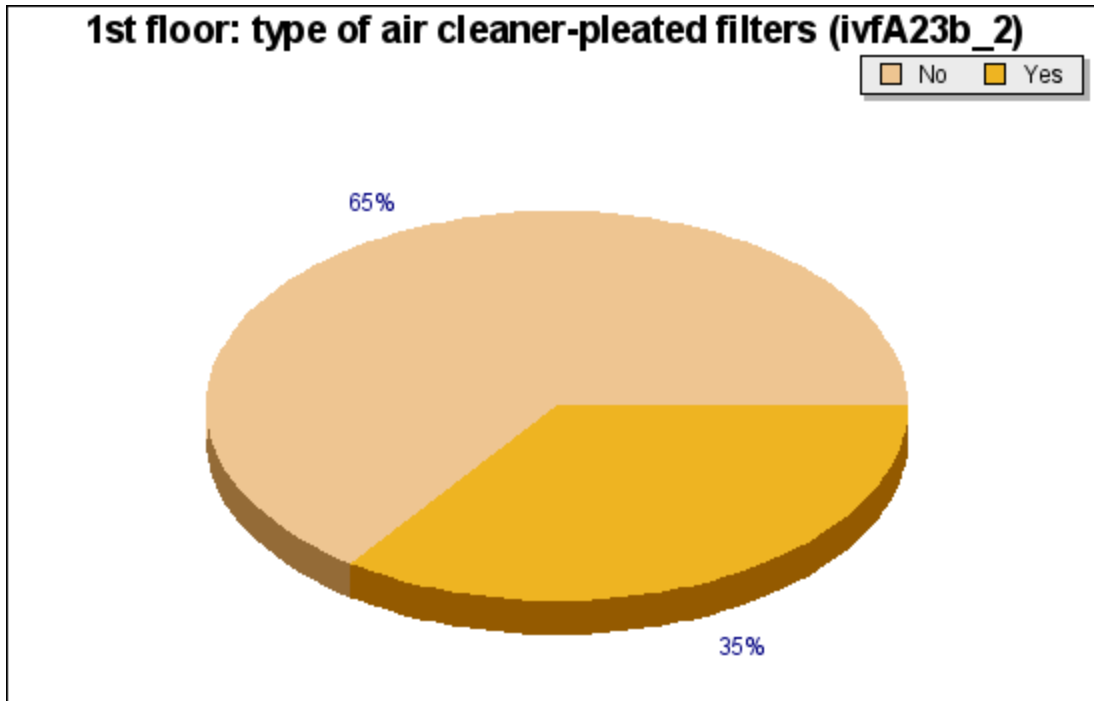
Question ivfA23_b: 1st floor: space heaters used



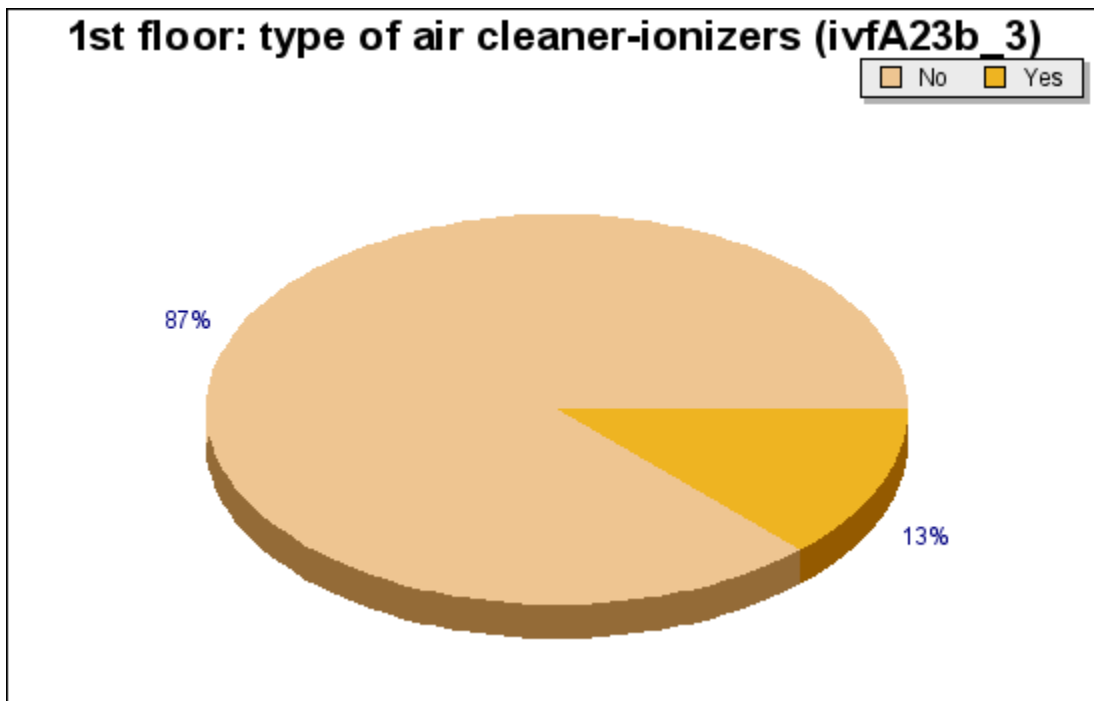
Question ivfA23_e: 1st floor: desk fans used



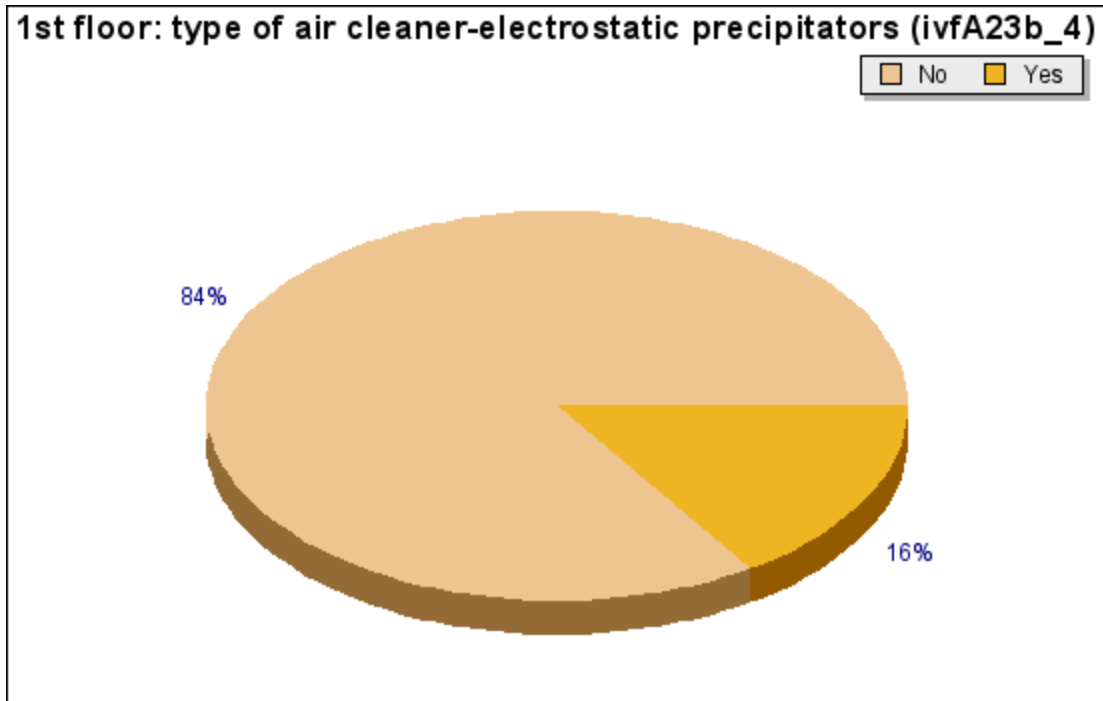
Question ivfA23b_1: 1st floor: type of air cleaner-mechanical



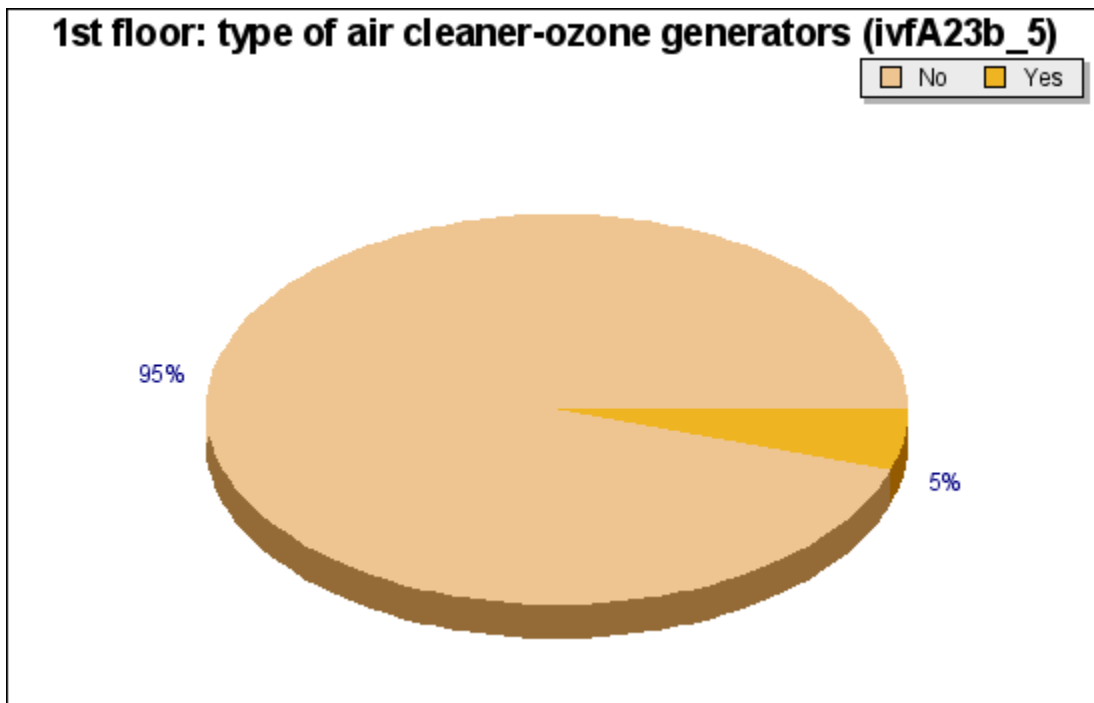
Question ivfA23b_2: 1st floor: type of air cleaner-pleated filters



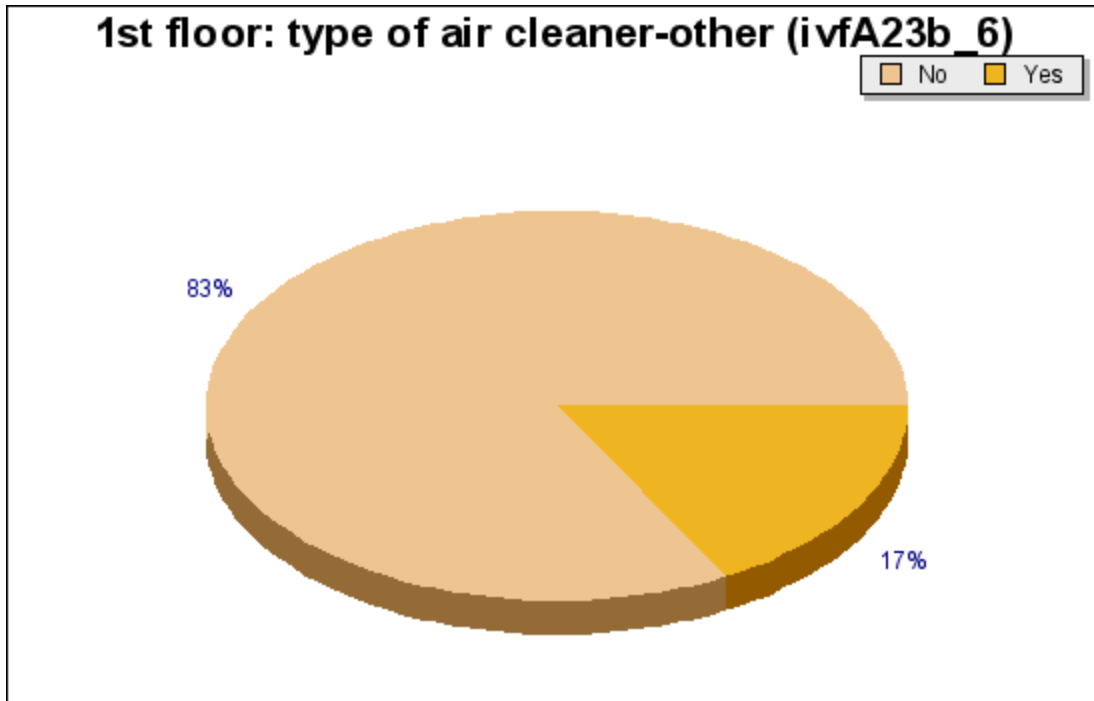
Question ivfA23b_3: 1st floor: type of air cleaner-ionizers



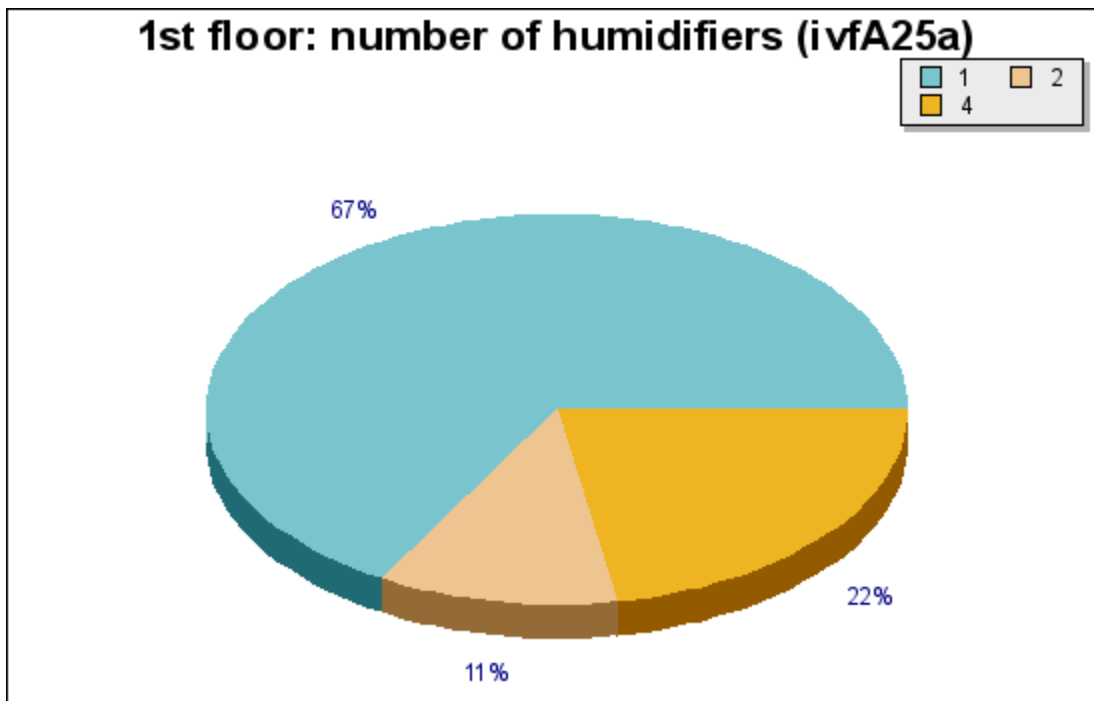
Question ivfA23b_4: 1st floor: type of air cleaner-electrostatic precipitators



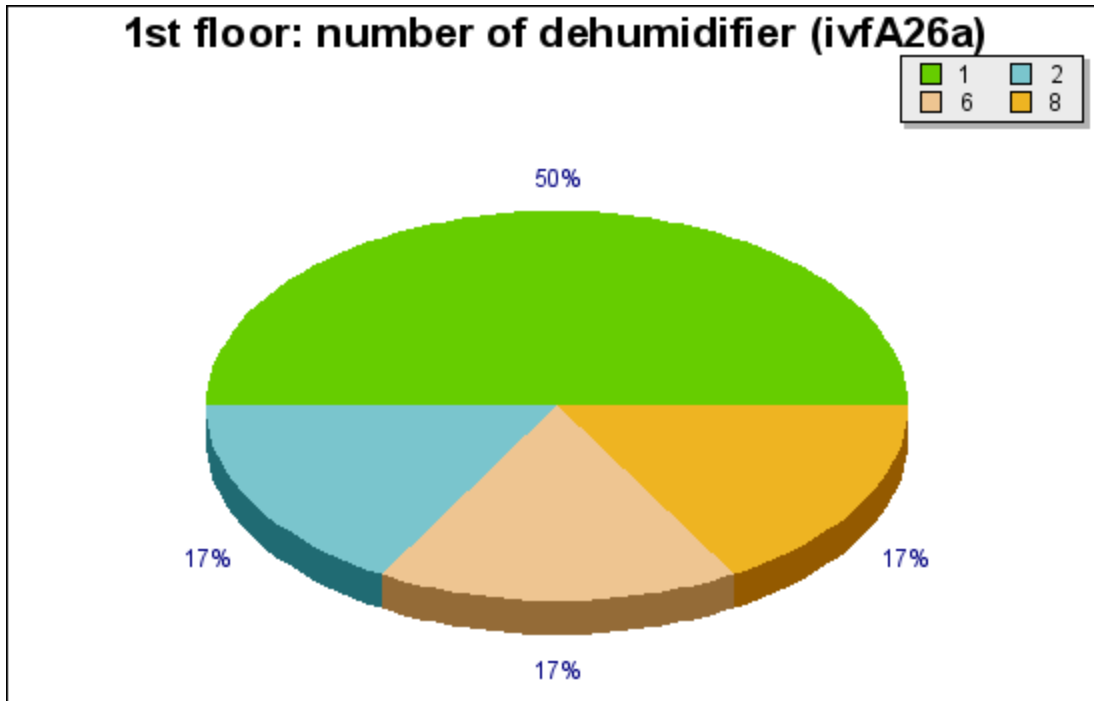
Question ivfA23b_5: 1st floor: type of air cleaner-ozone generators



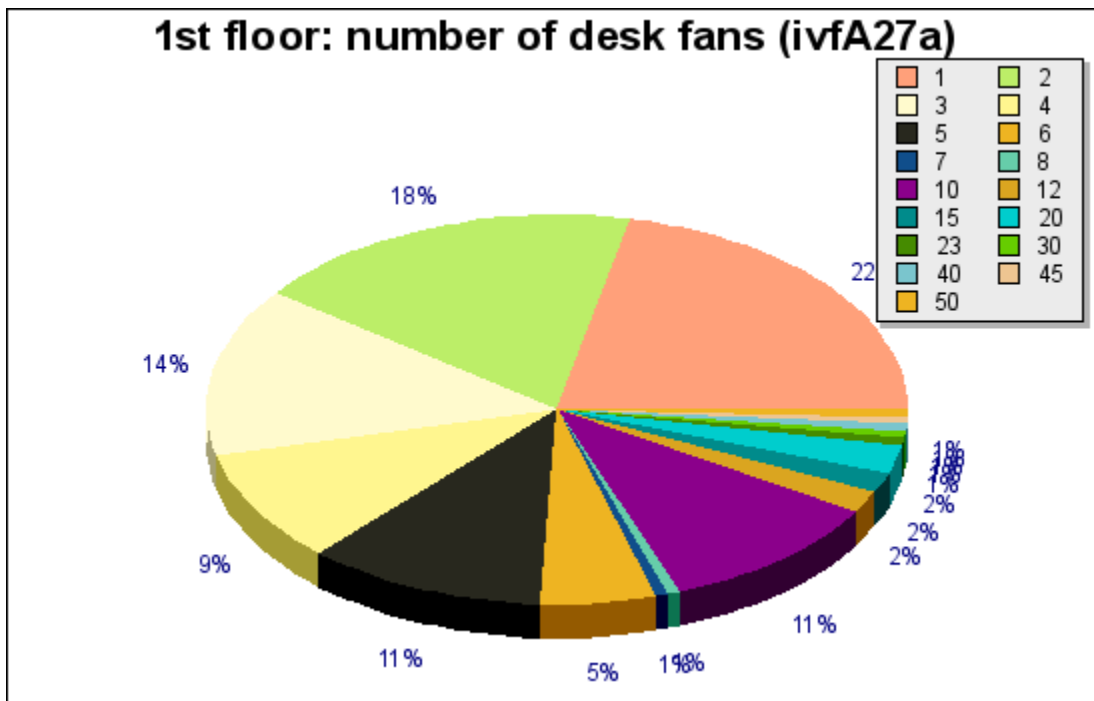
Question ivfA23b_6: 1st floor: type of air cleaner-other



Question ivfA25a: 1st floor: number of humidifiers

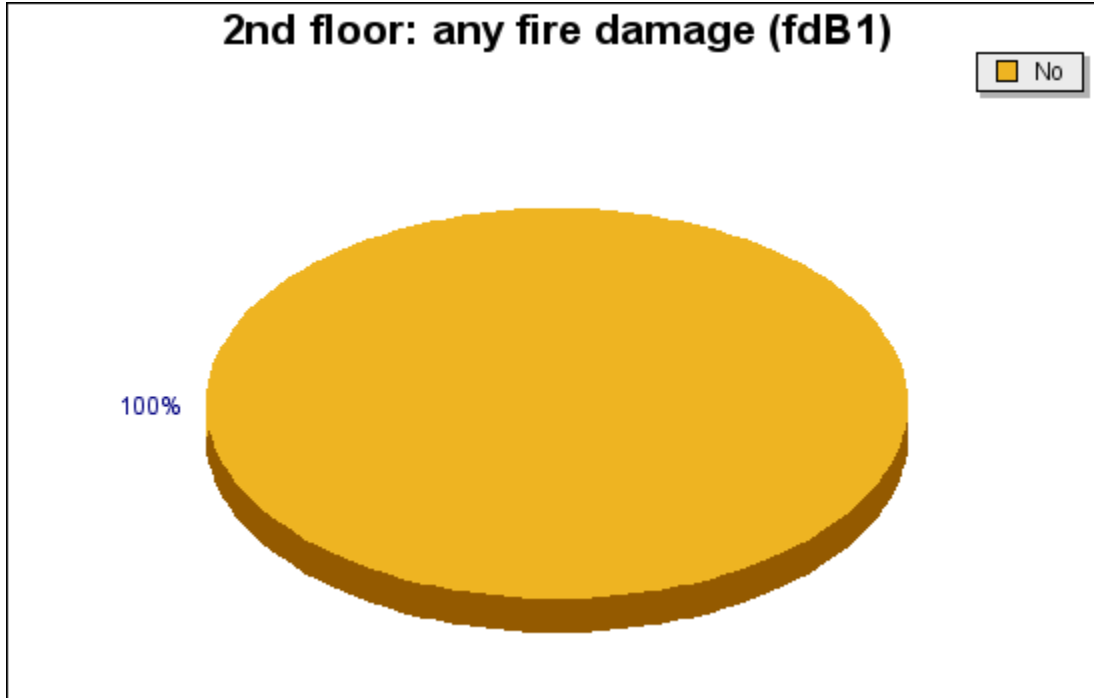


Question ivfA26a: 1st floor: number of dehumidifier



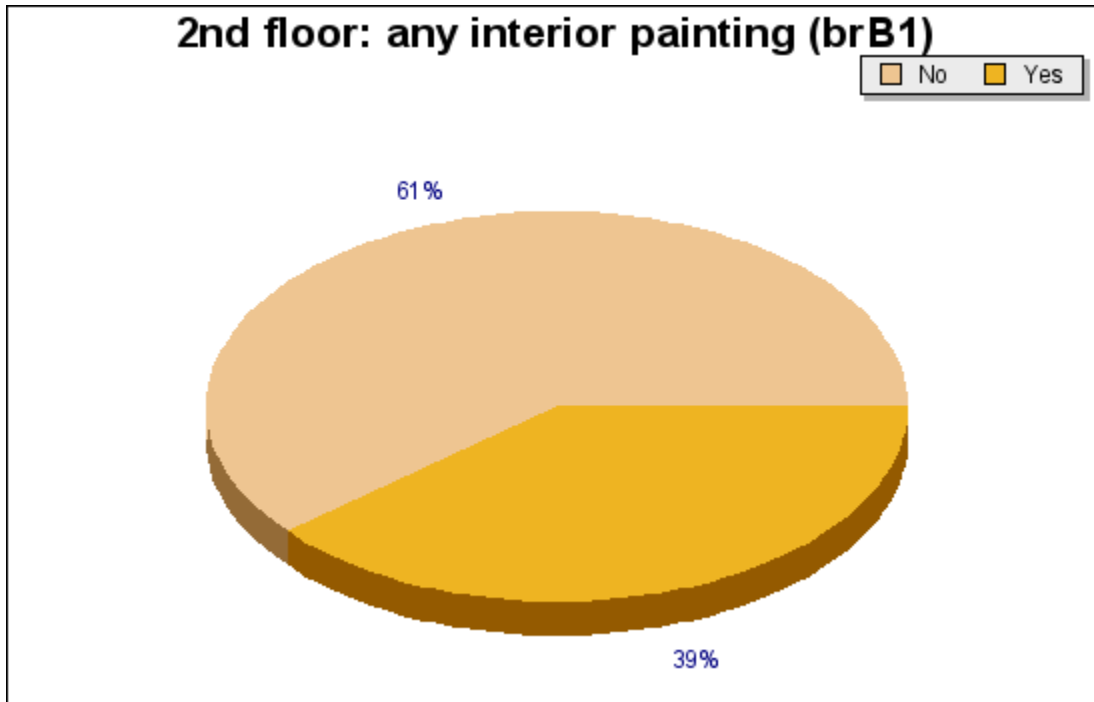
Question ivfA27a: 1st floor: number of desk fans

Fire Damage: 2nd Floor

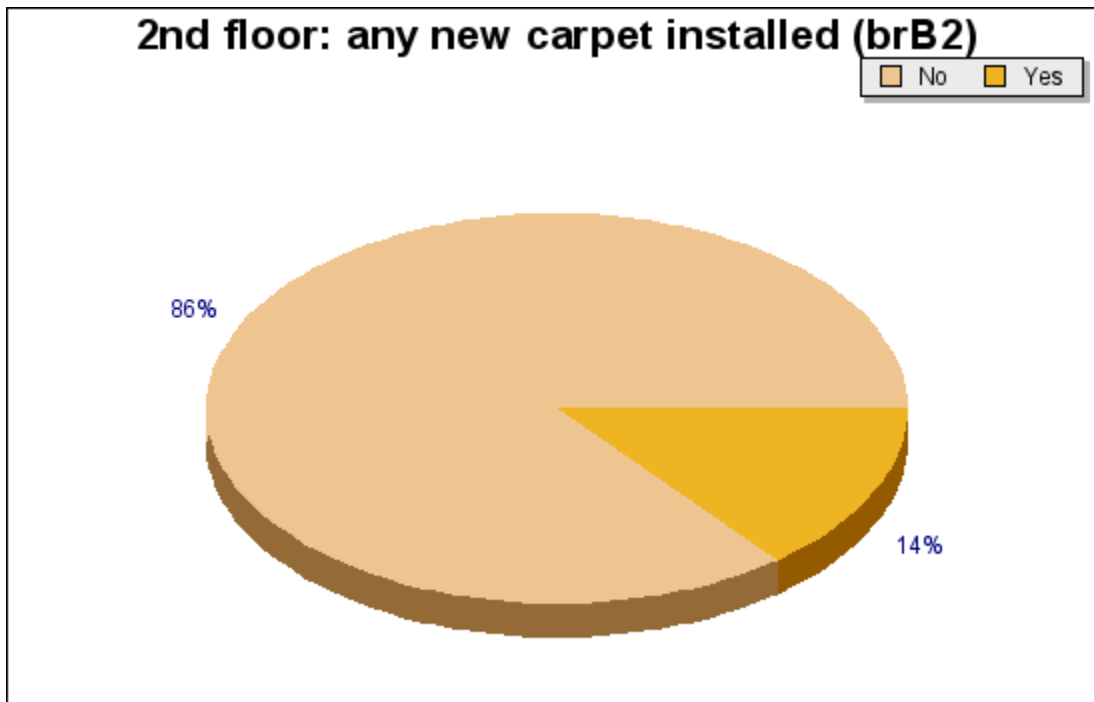


Question fdB1: 2nd floor: any fire damage

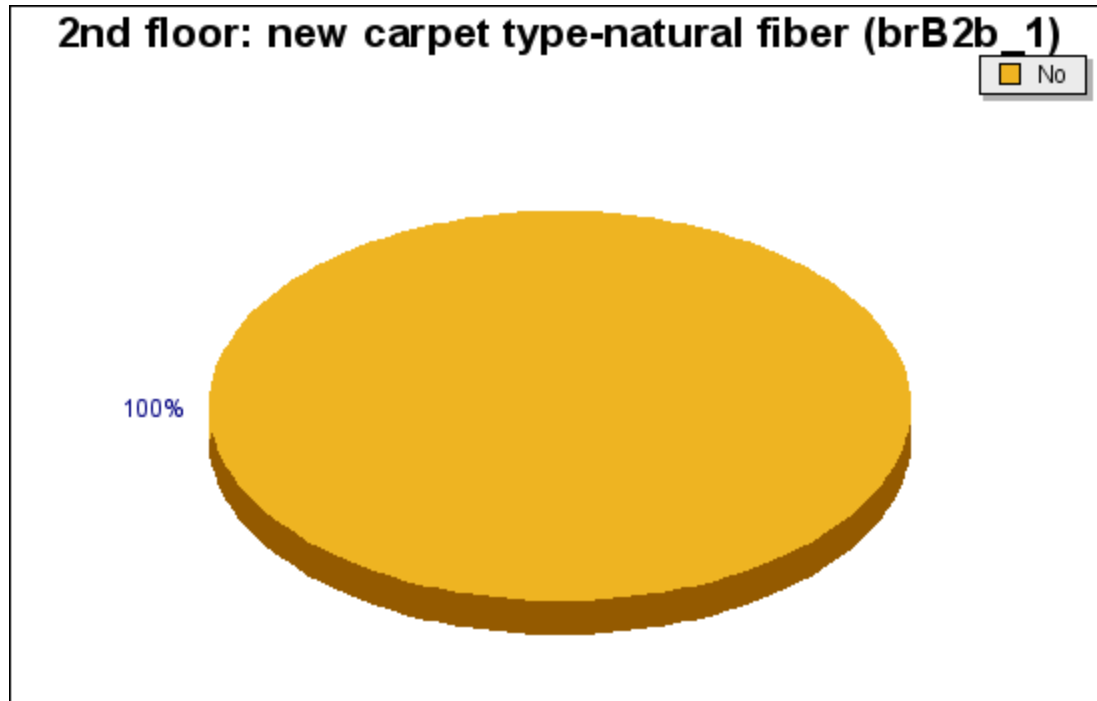
Building Renovations: 2nd Floor



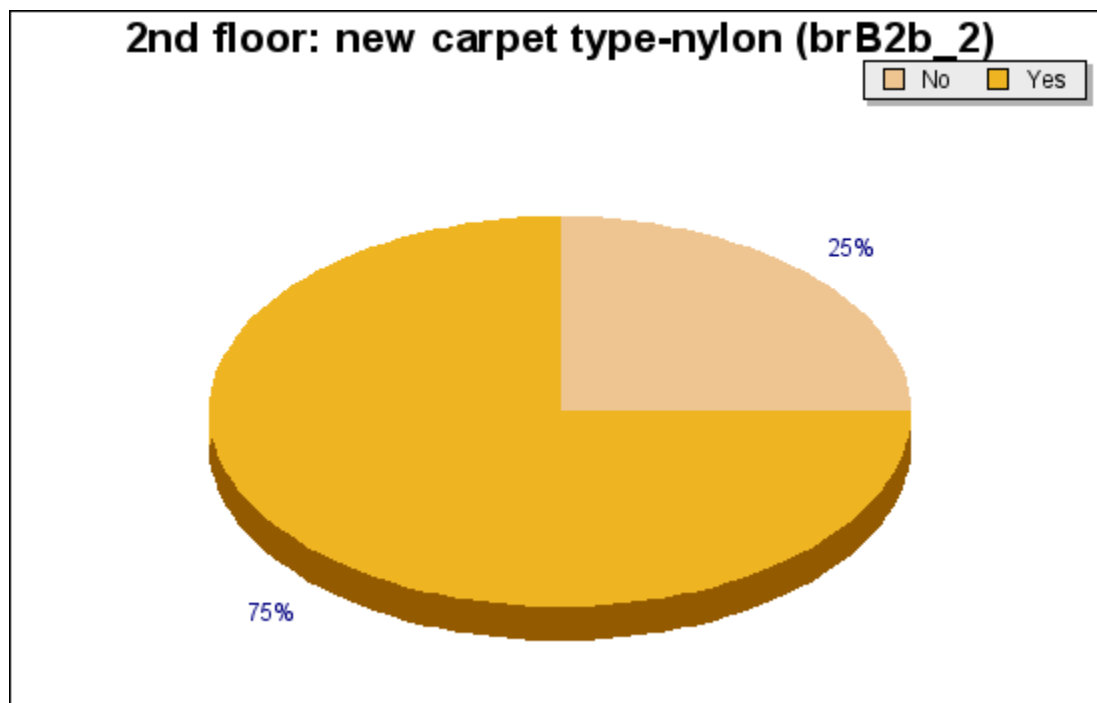
Question brB1: 2nd floor: any interior painting



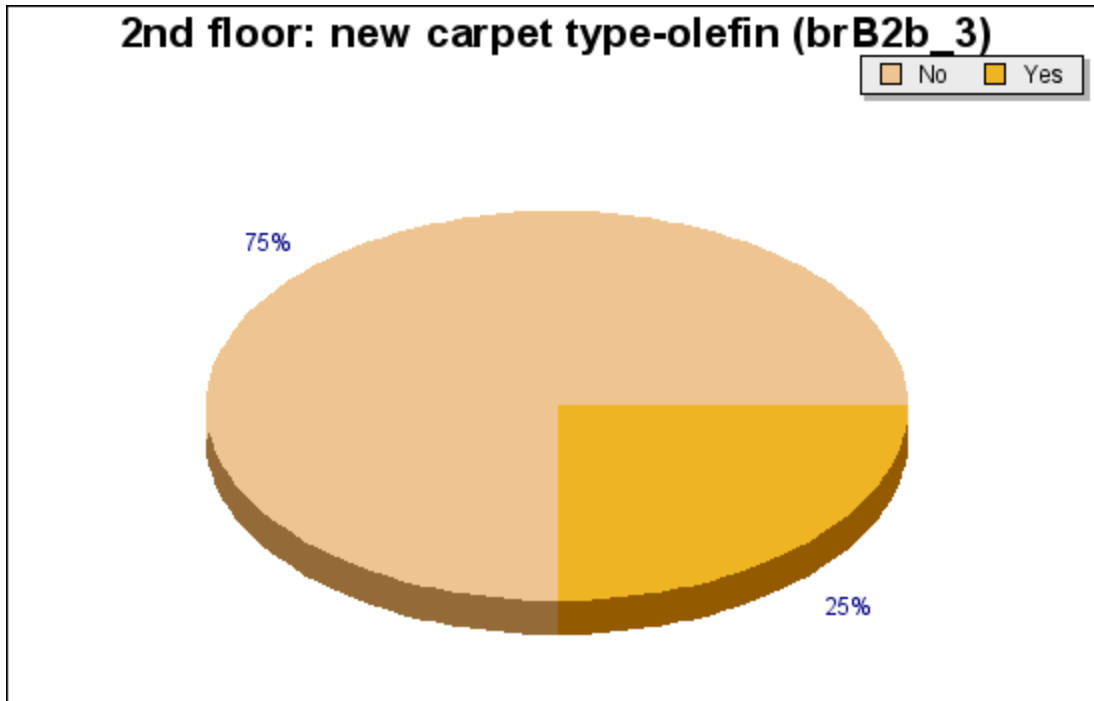
Question brB2: 2nd floor: any new carpet installed



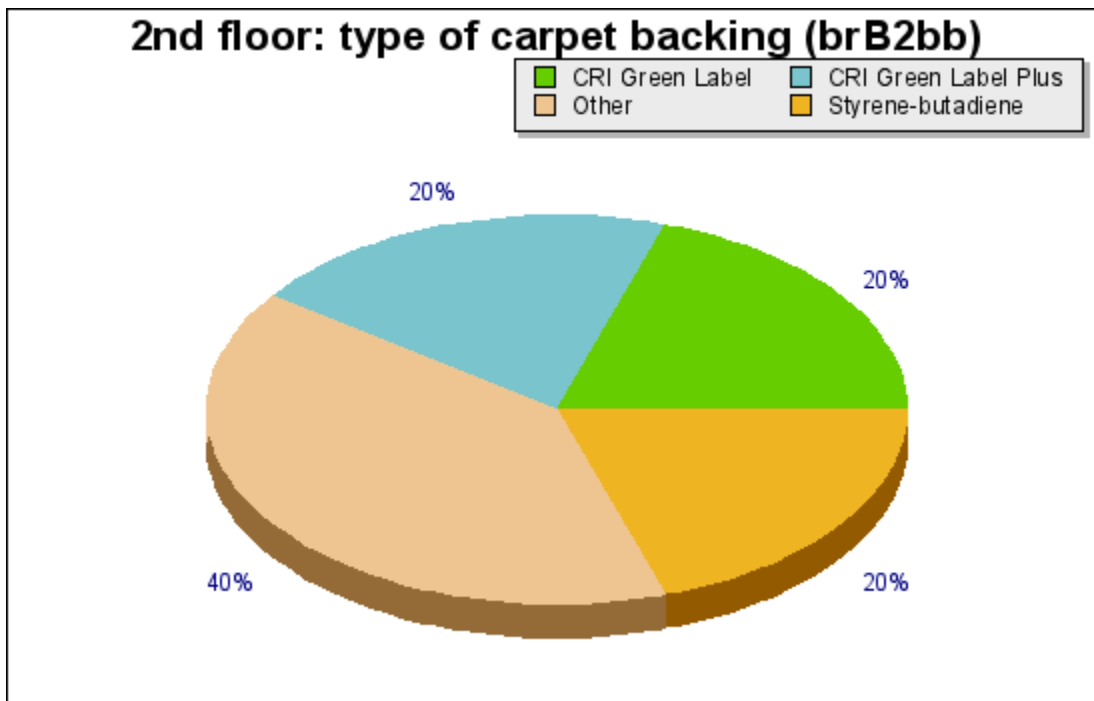
Question brB2b_1: 2nd floor: new carpet type-natural fiber



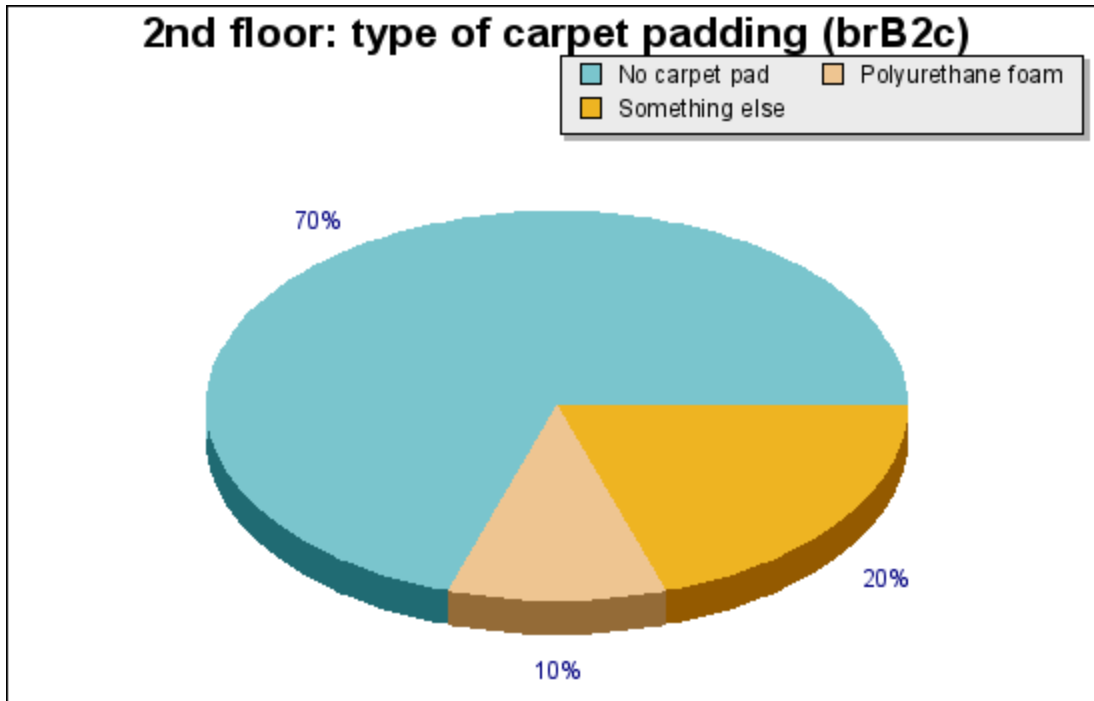
Question brB2b_2: 2nd floor: new carpet type-nylon



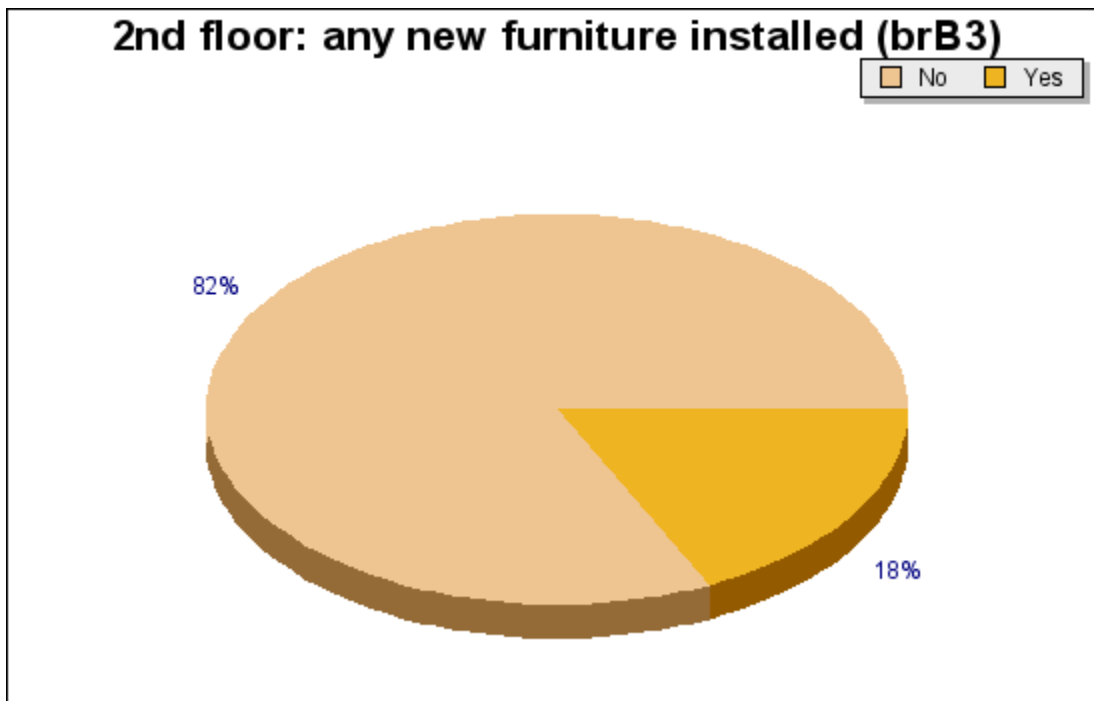
Question brB2b_3: 2nd floor: new carpet type-olefin



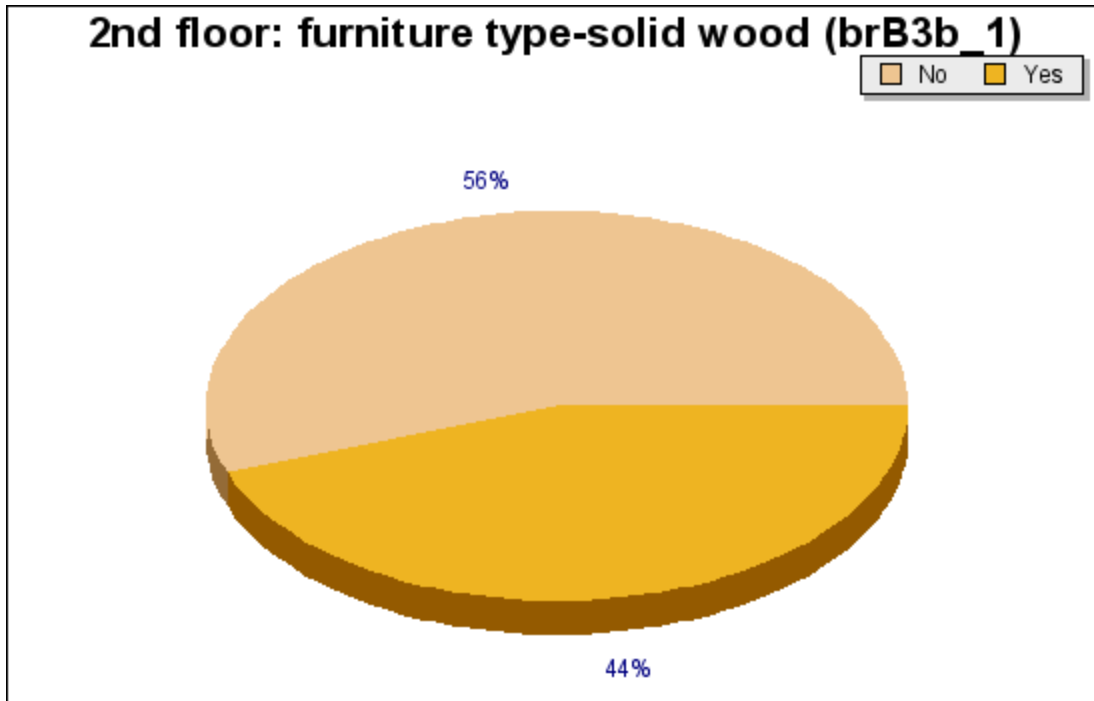
Question brB2bb: 2nd floor: type of carpet backing



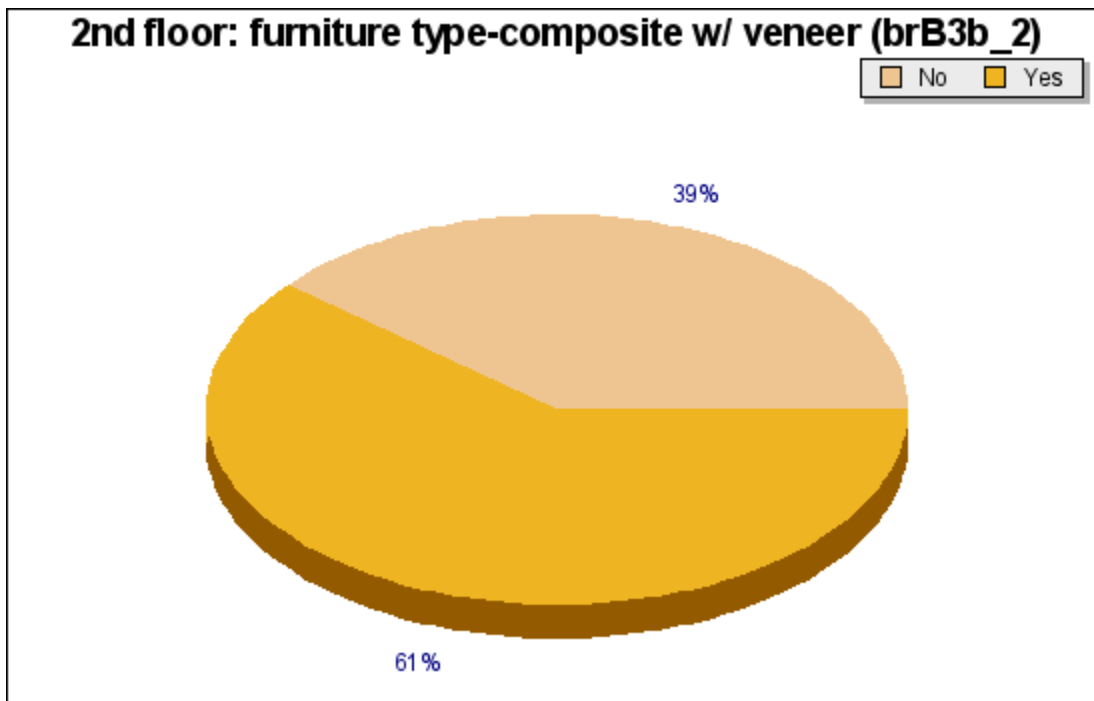
Question brB2c: 2nd floor: type of carpet padding



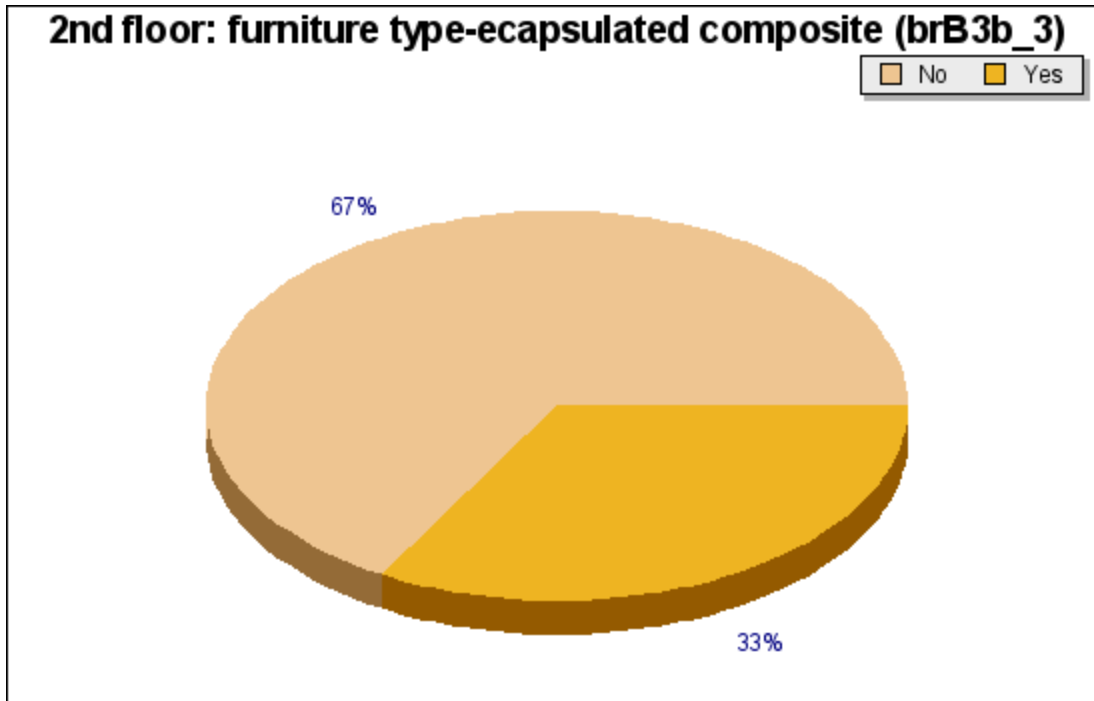
Question brB3: 2nd floor: any new furniture installed



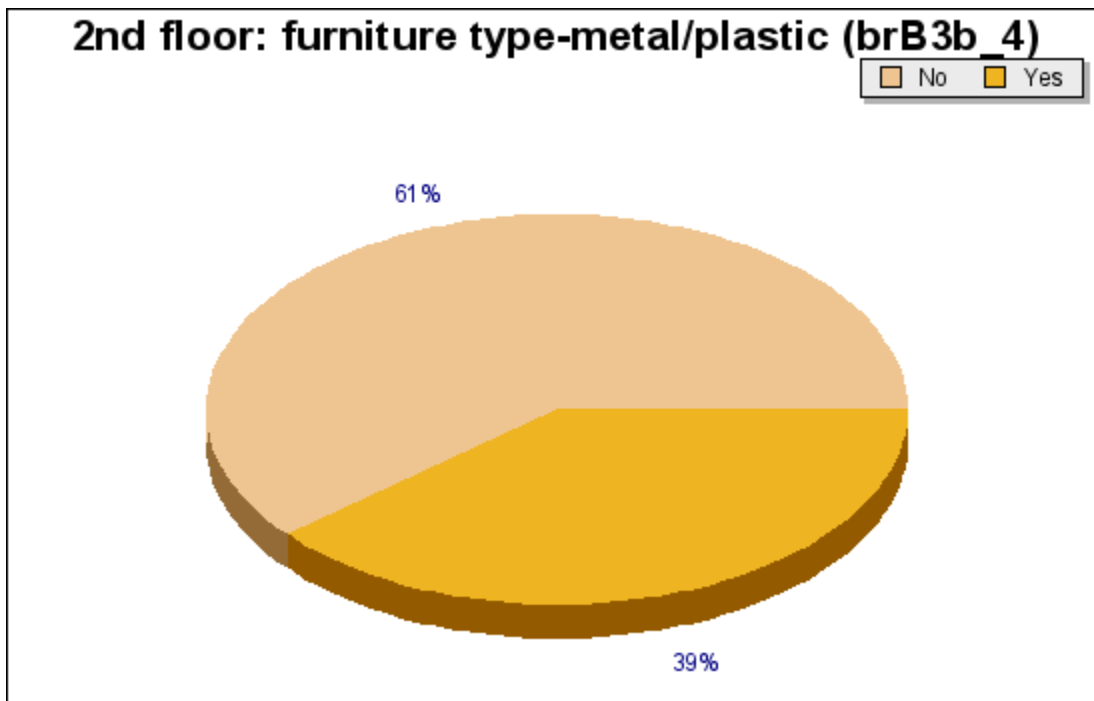
Question brB3b_1: 2nd floor: furniture type-solid wood



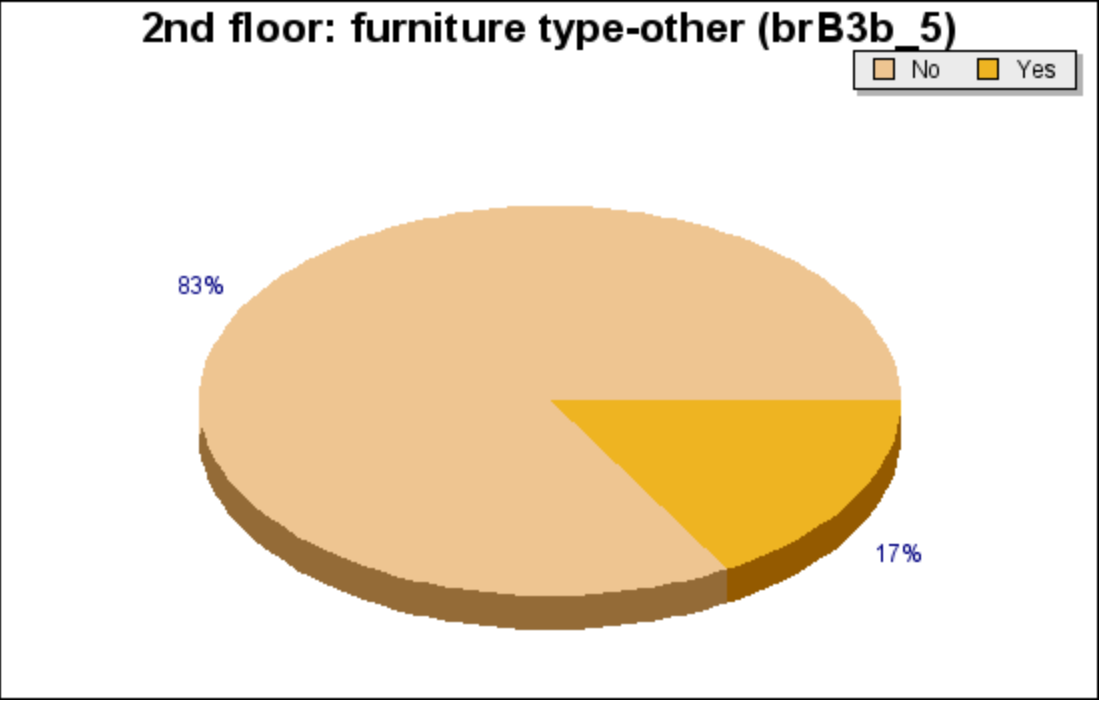
Question brB3b_2: 2nd floor: furniture type-composite w/ veneer



Question brB3b_3: 2nd floor: furniture type-encapsulated composite



Question brB3b_4: 2nd floor: furniture type-metal/plastic

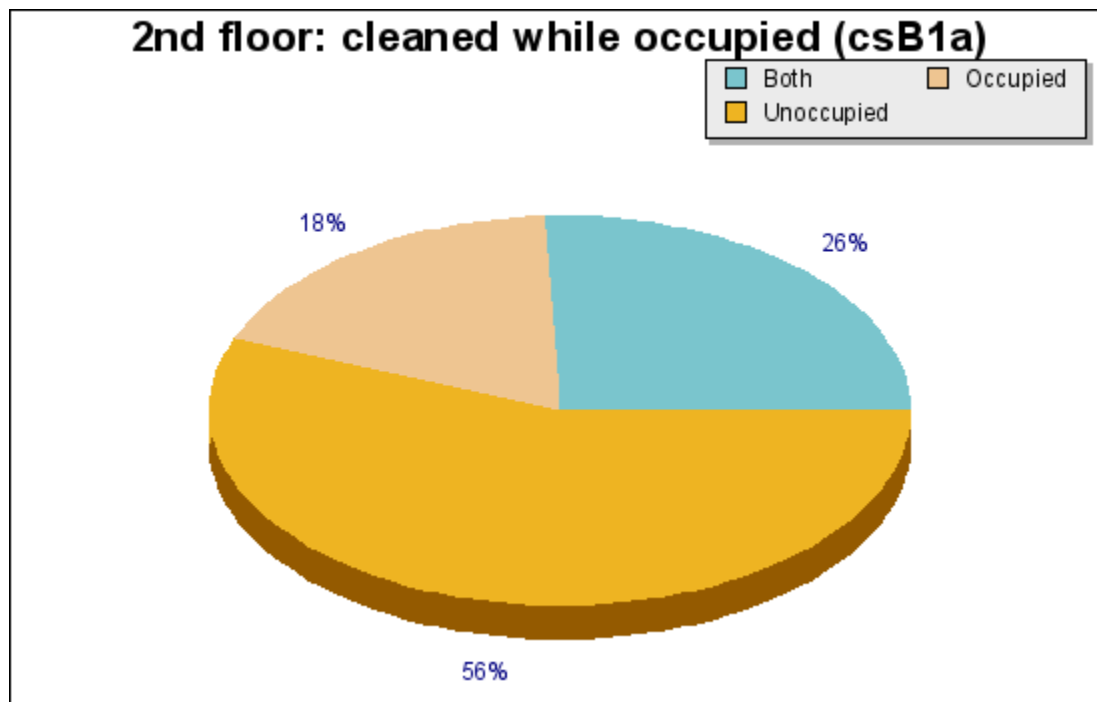


Question brB3b_5: 2nd floor: furniture type-other

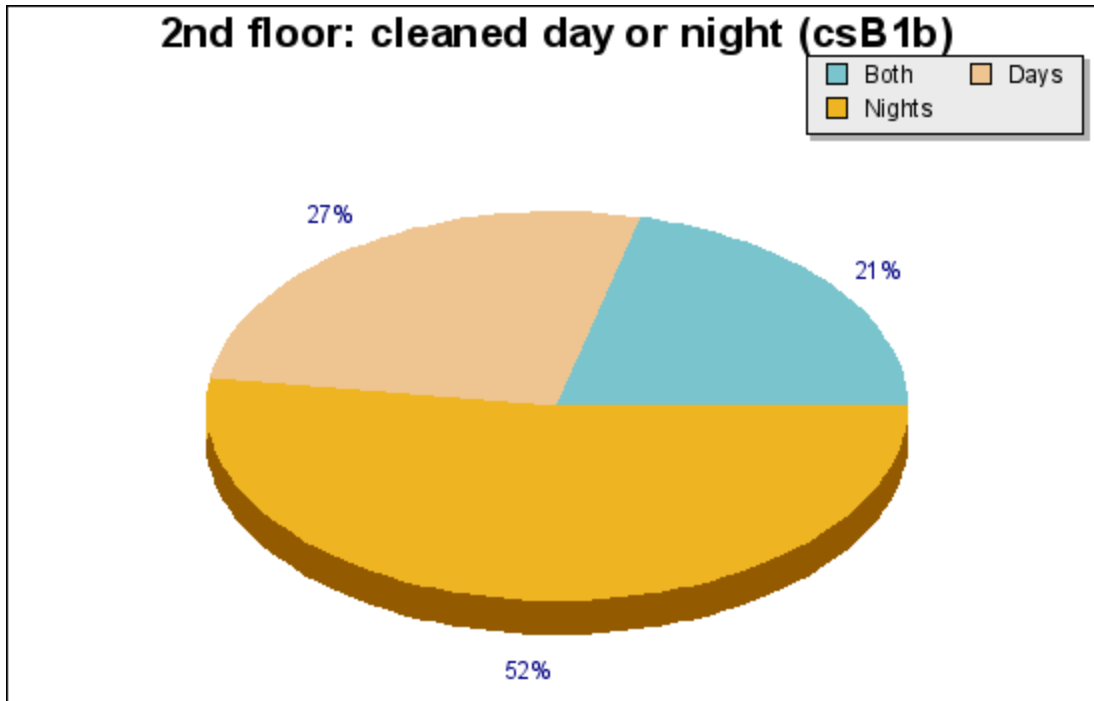
Cleaning Schedule: 2nd Floor



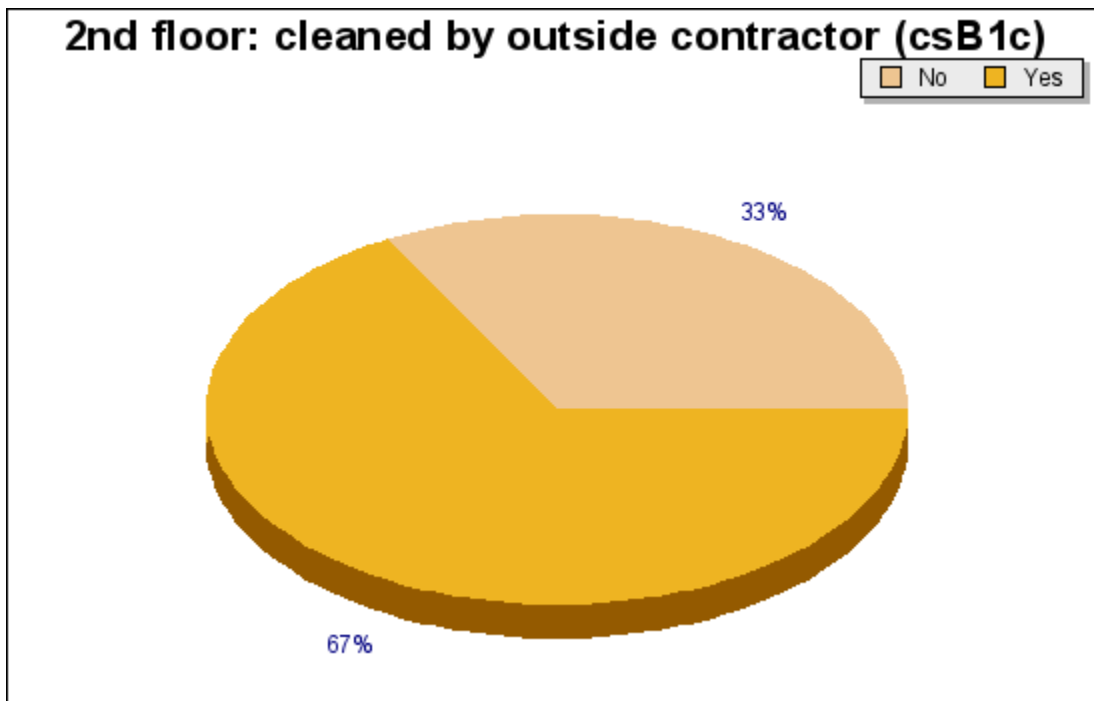
Question csB1: 2nd floor: cleaned on regular schedule



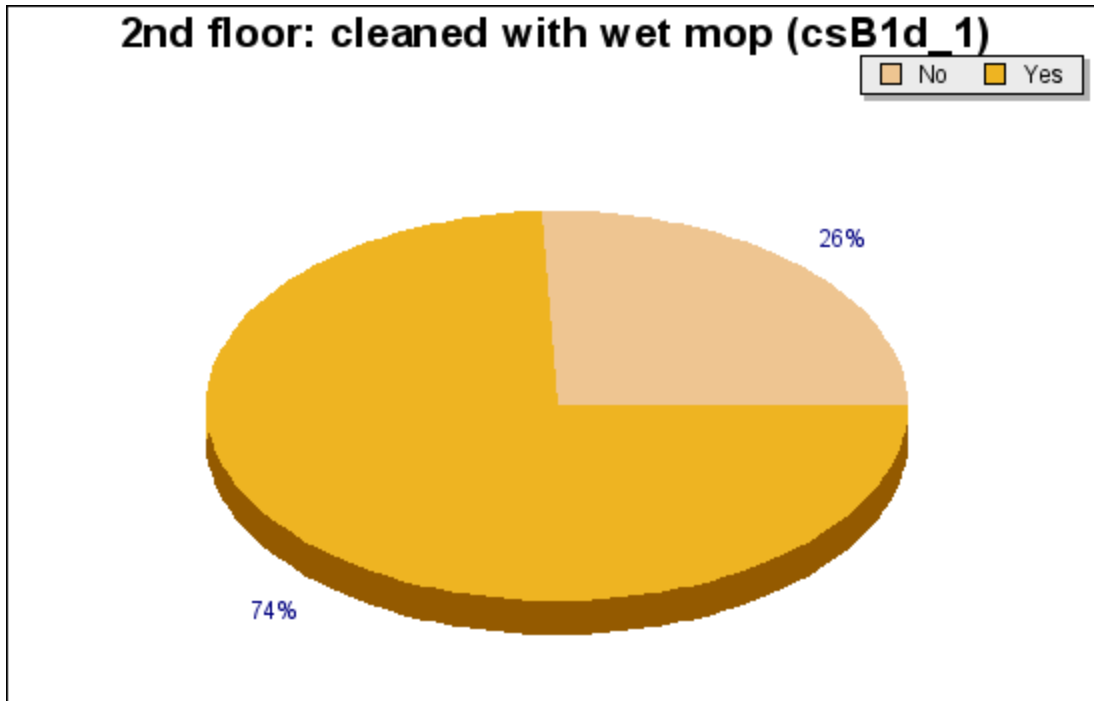
Question csB1a: 2nd floor: cleaned while occupied



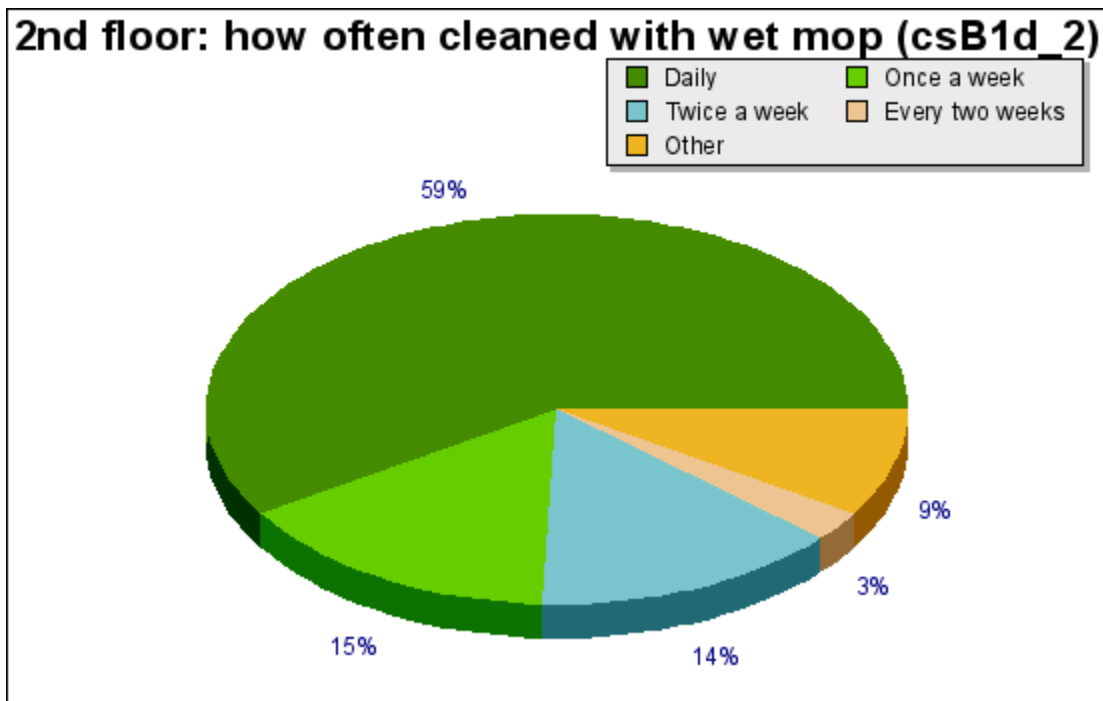
Question csB1b: 2nd floor: cleaned day or night



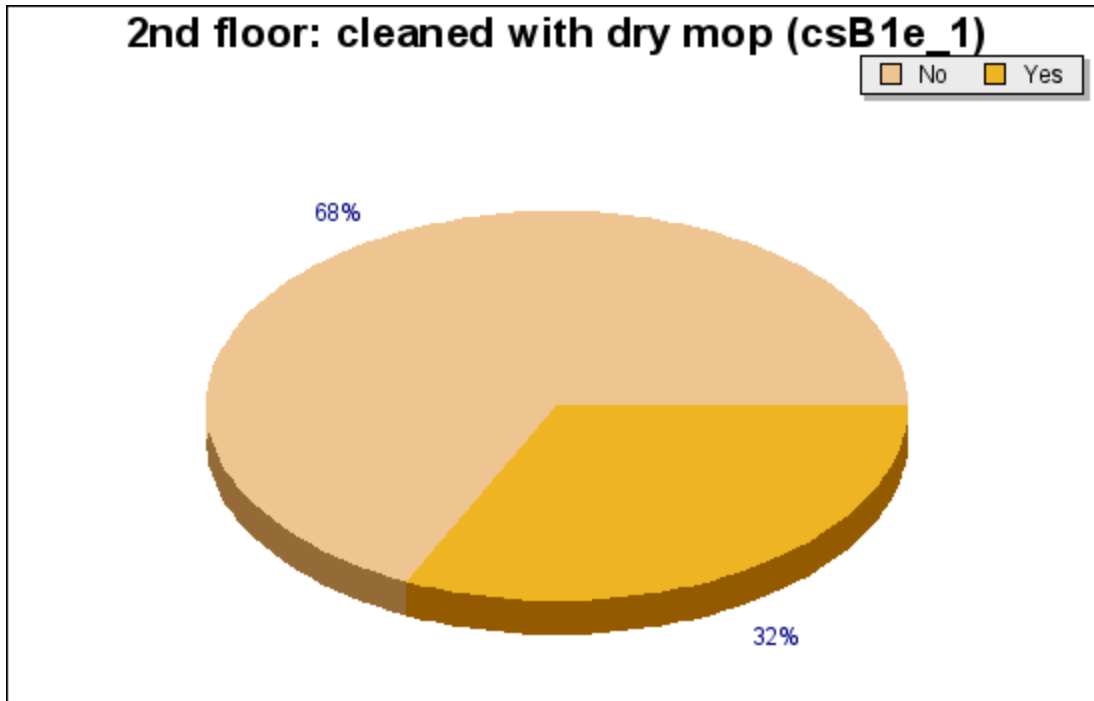
Question csB1c: 2nd floor: cleaned by outside contractor



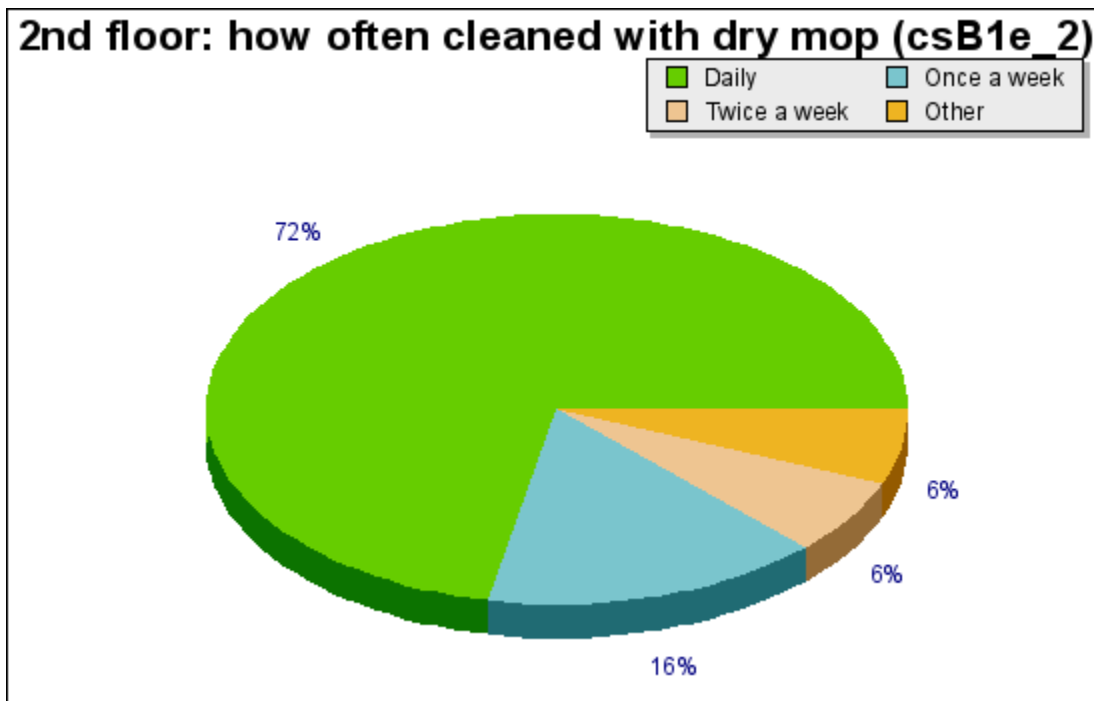
Question csB1d_1: 2nd floor: cleaned with wet mop



Question csB1d_2: 2nd floor: how often cleaned with wet mop



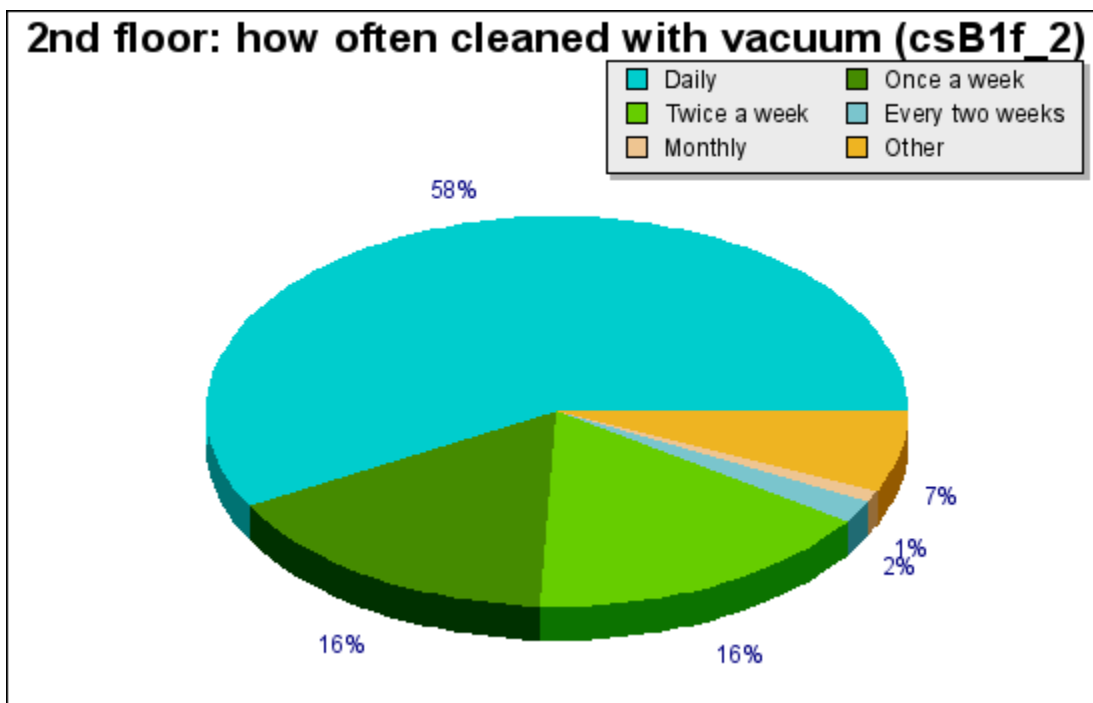
Question csB1e_1: 2nd floor: cleaned with dry mop



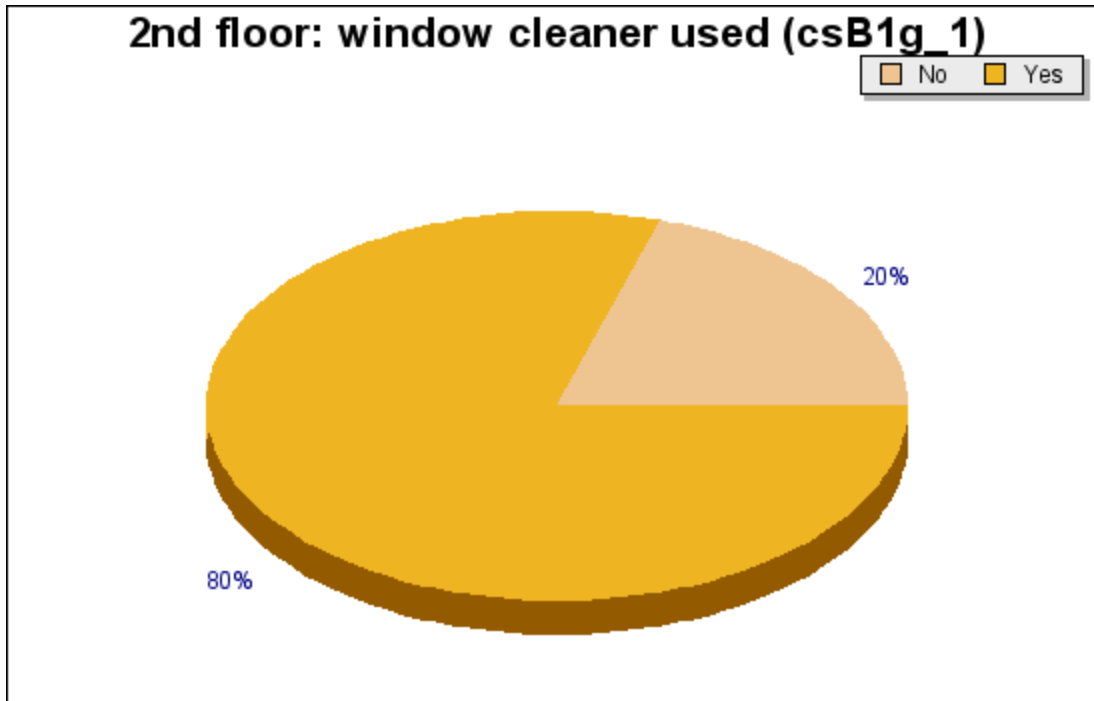
Question csB1e_2: 2nd floor: how often cleaned with dry mop



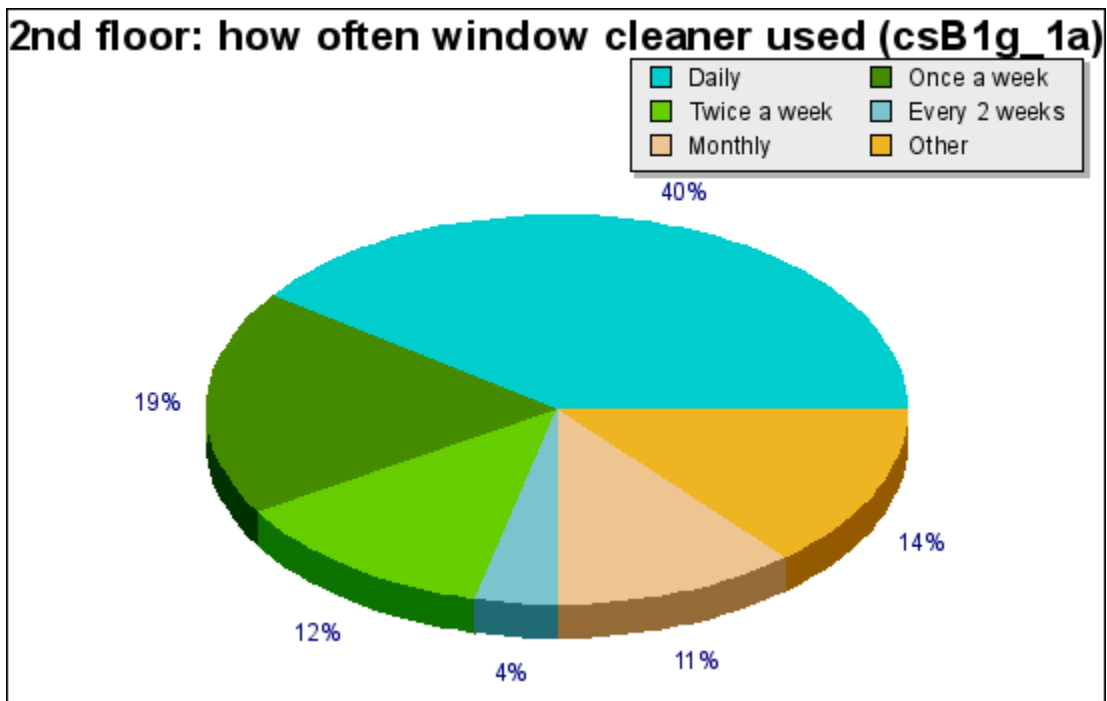
Question csB1f_1: 2nd floor: cleaned with a vacuum



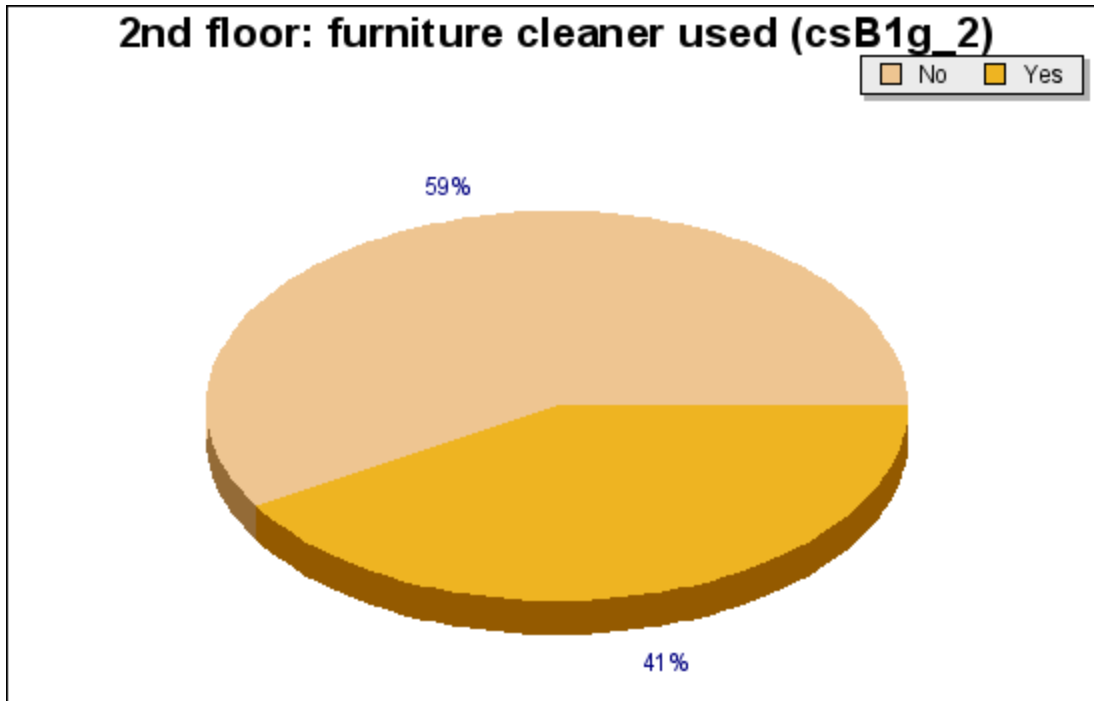
Question csB1f_2: 2nd floor: how often cleaned with vacuum



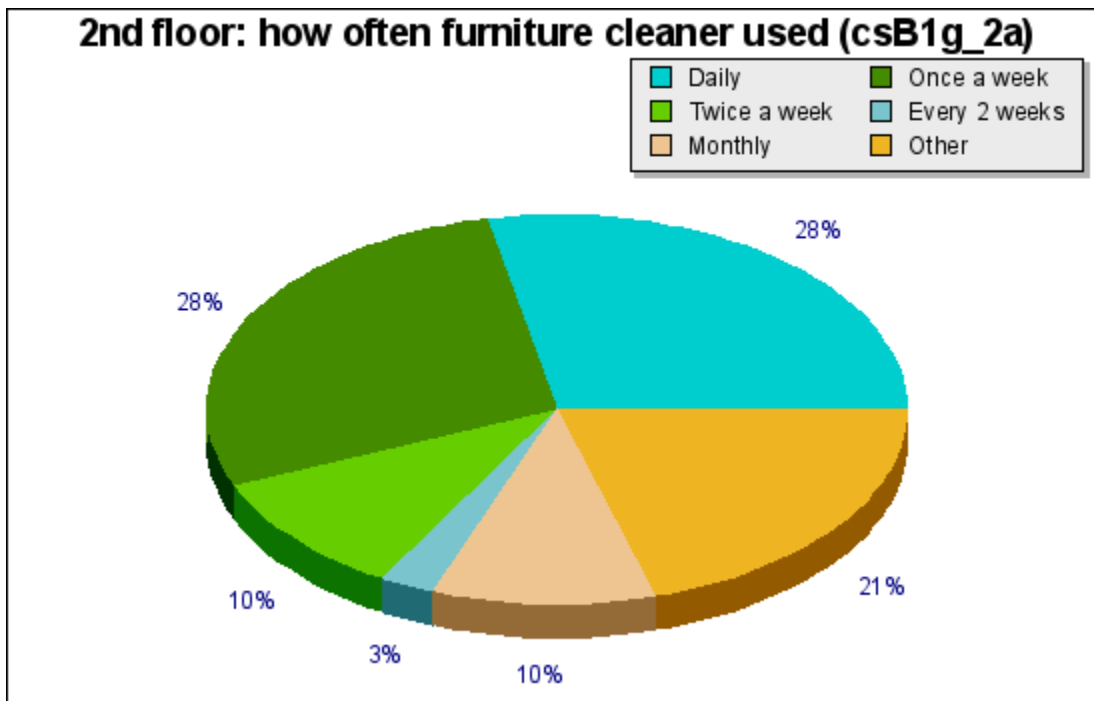
Question csB1g_1: 2nd floor: window cleaner used



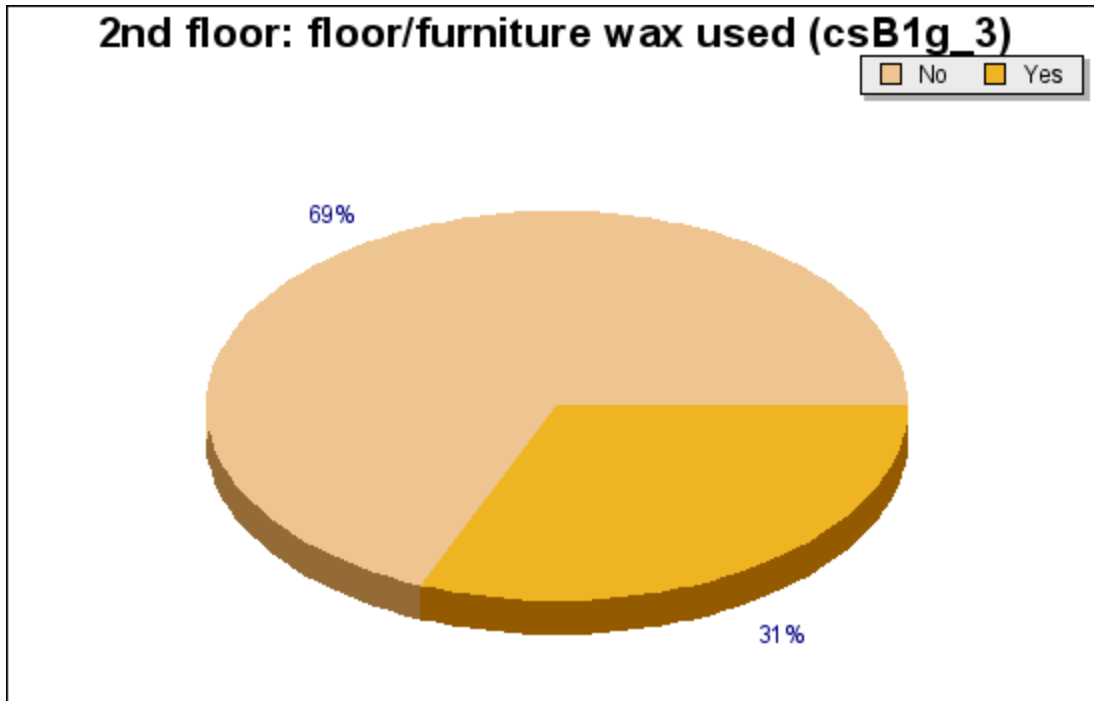
Question csB1g_1a: 2nd floor: how often window cleaner used



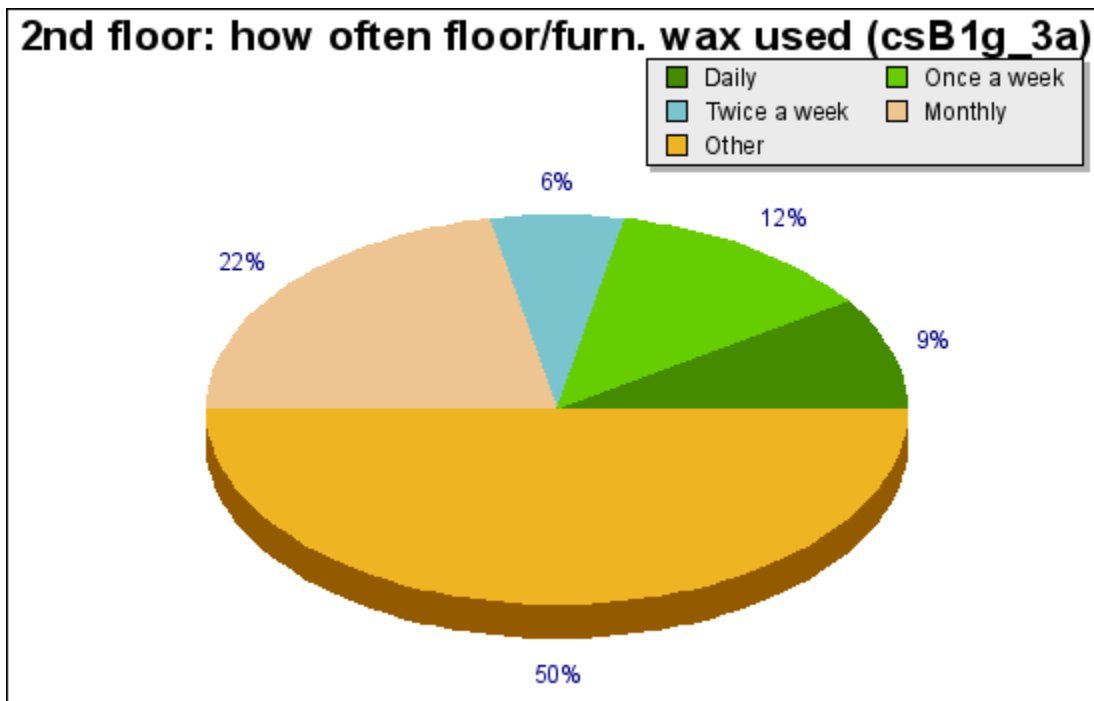
Question csB1g_2: 2nd floor: furniture cleaner used



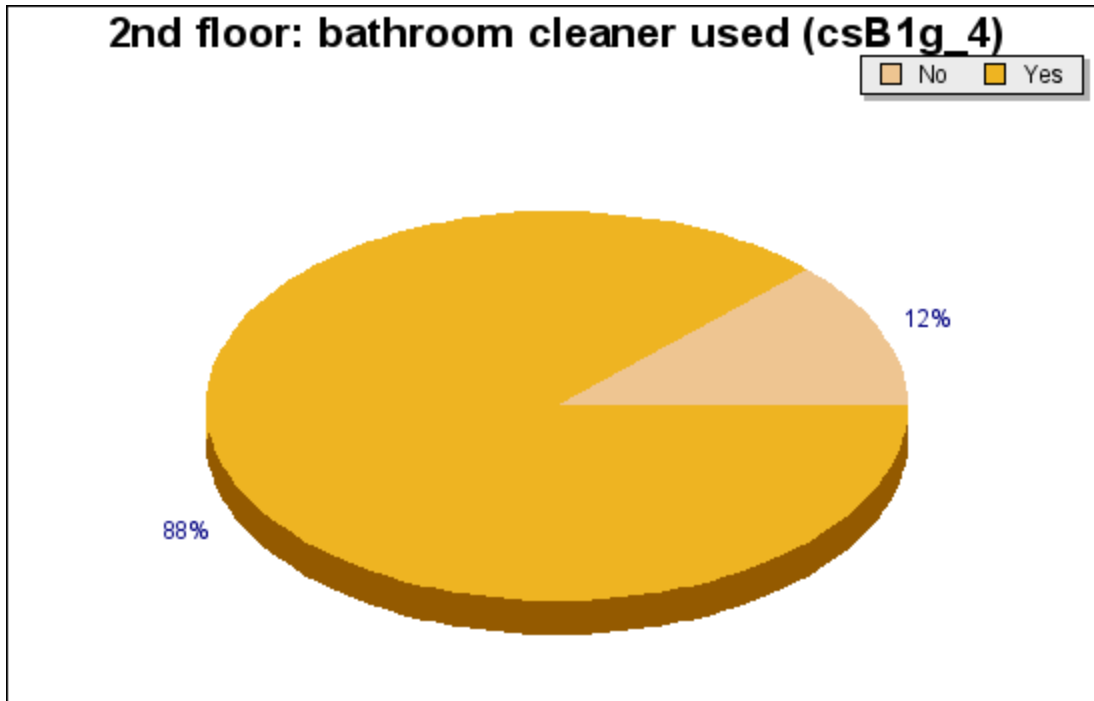
Question csB1g_2a: 2nd floor: how often furniture cleaner used



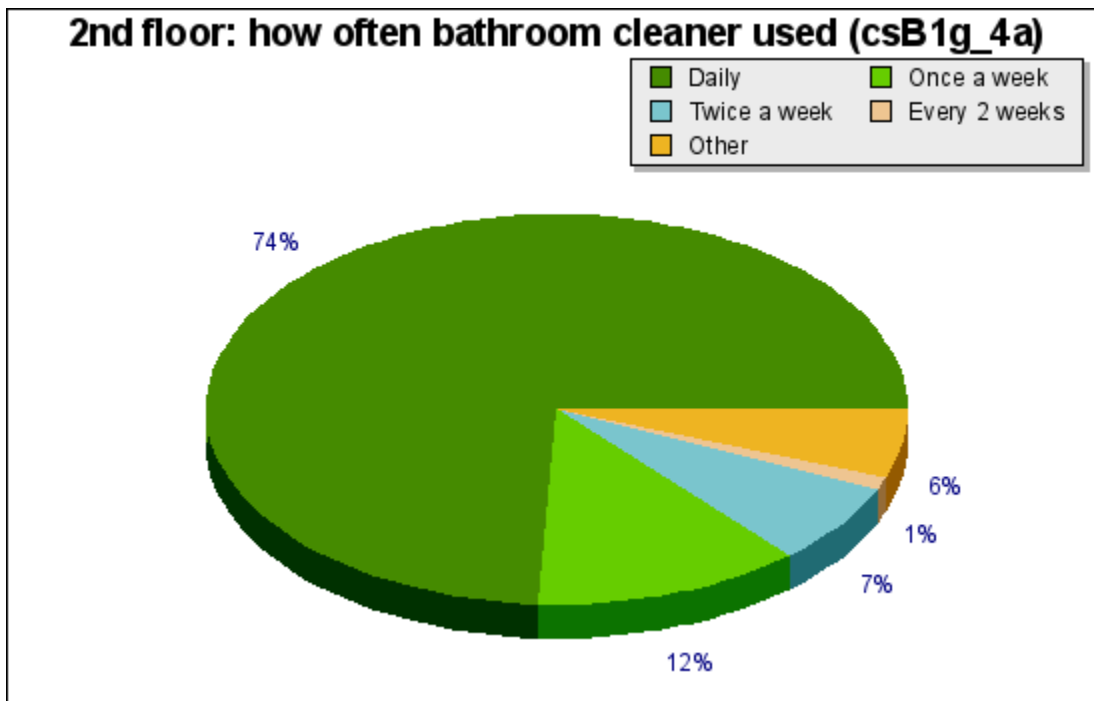
Question csB1g_3: 2nd floor: floor/furniture wax used



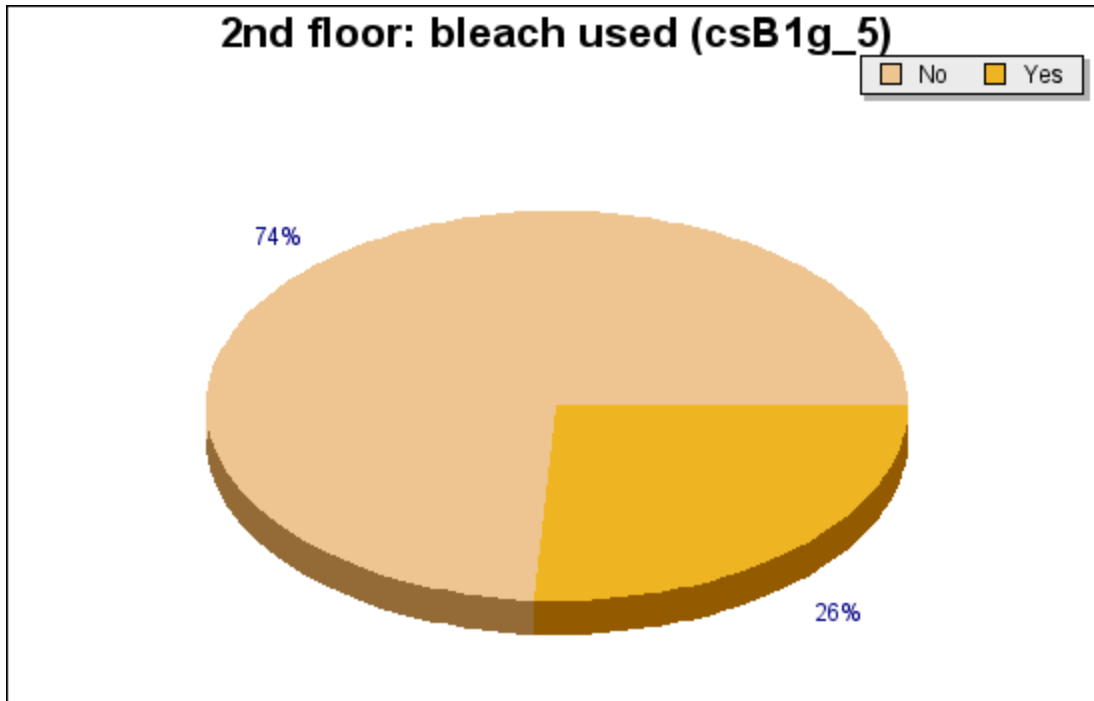
Question csB1g_3a: 2nd floor: how often floor/furn. wax used



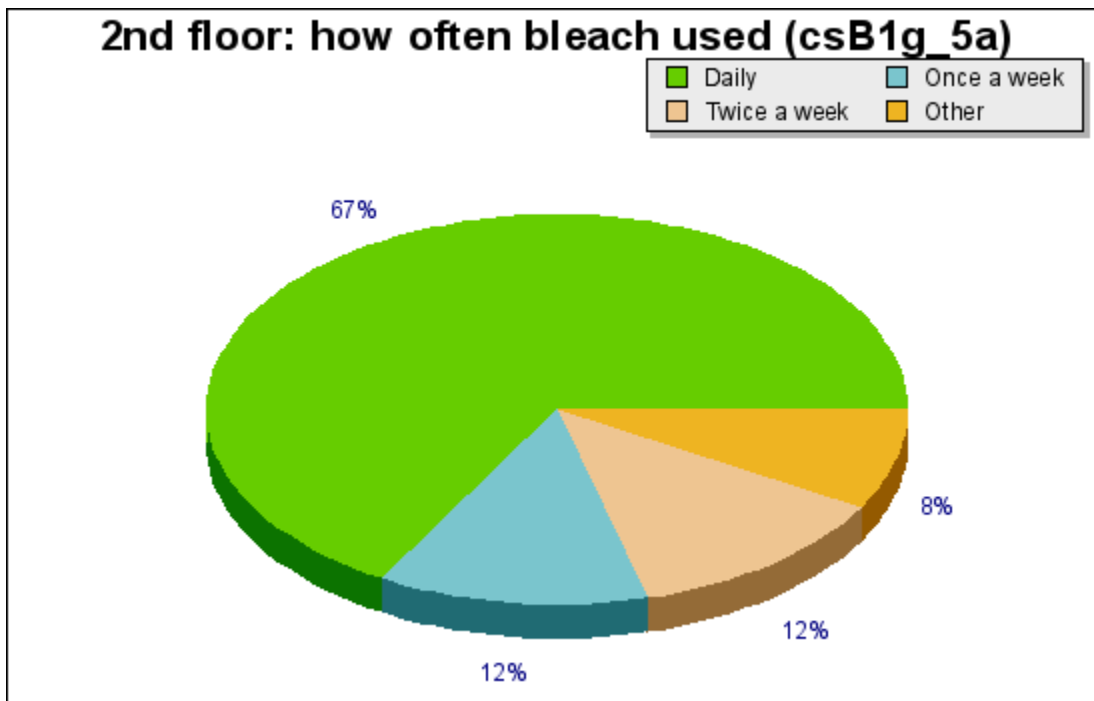
Question csB1g_4: 2nd floor: bathroom cleaner used



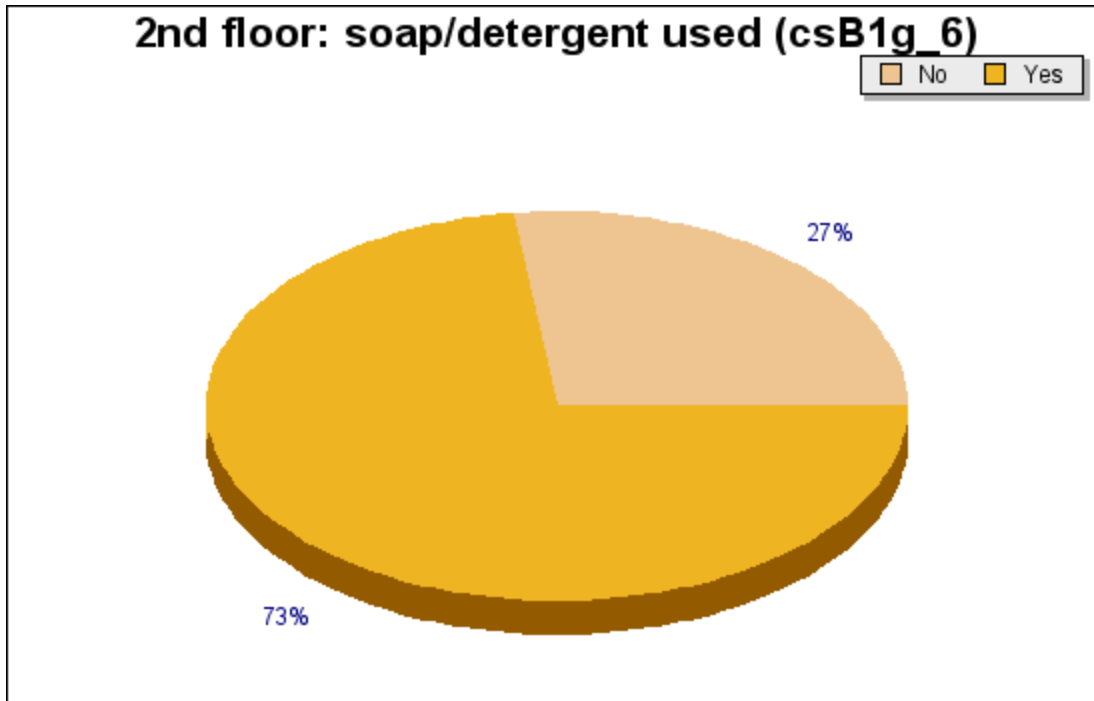
Question csB1g_4a: 2nd floor: how often bathroom cleaner used



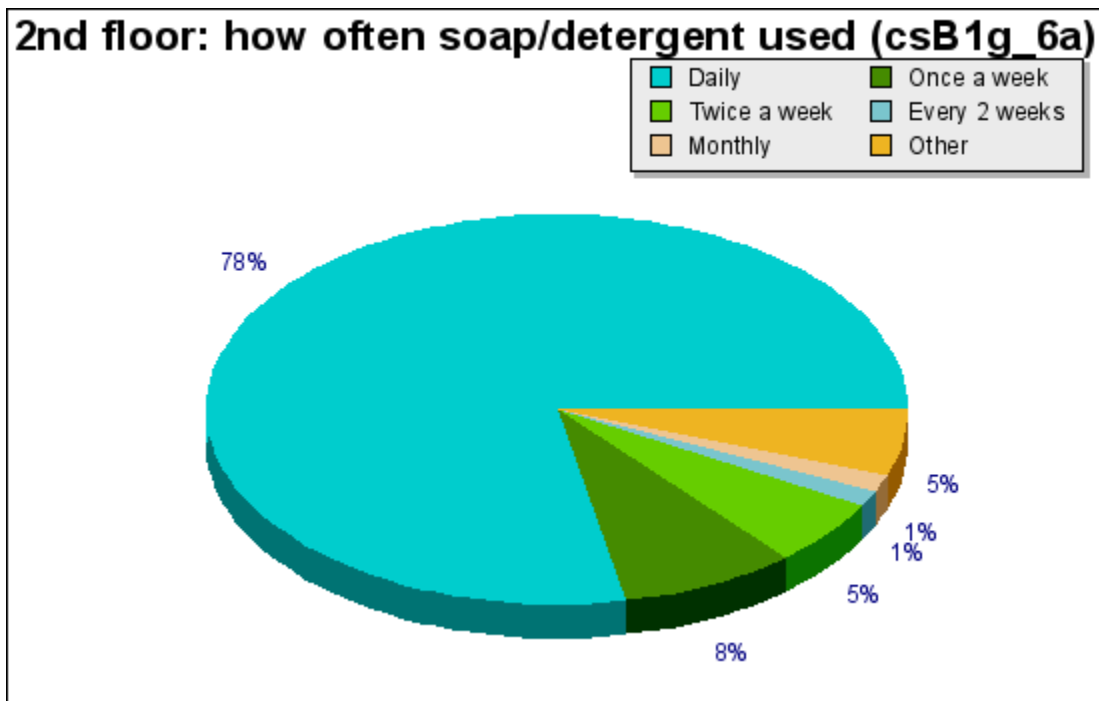
Question csB1g_5: 2nd floor: bleach used



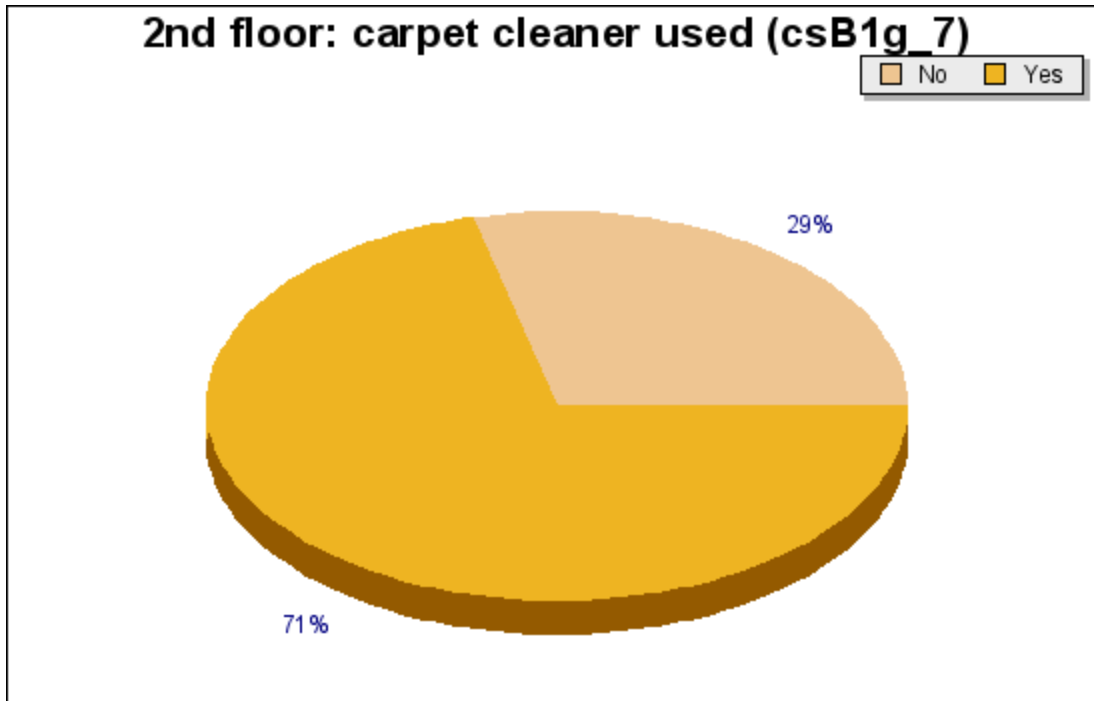
Question csB1g_5a: 2nd floor: how often bleach used



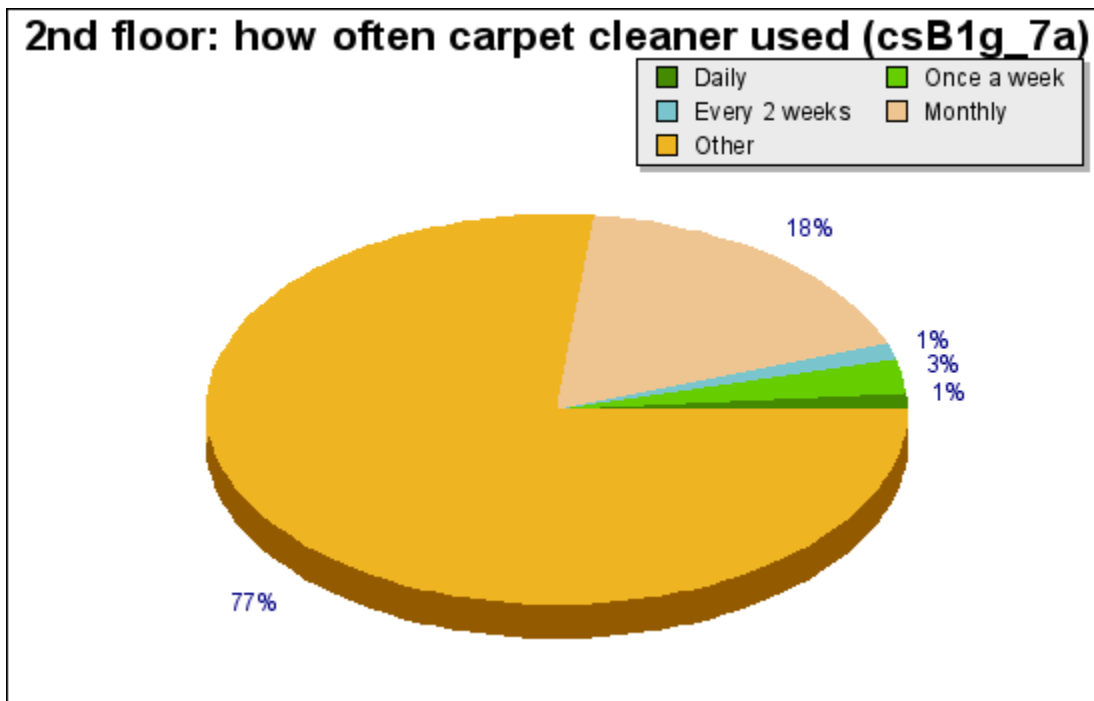
Question csB1g_6: 2nd floor: soap/detergent used



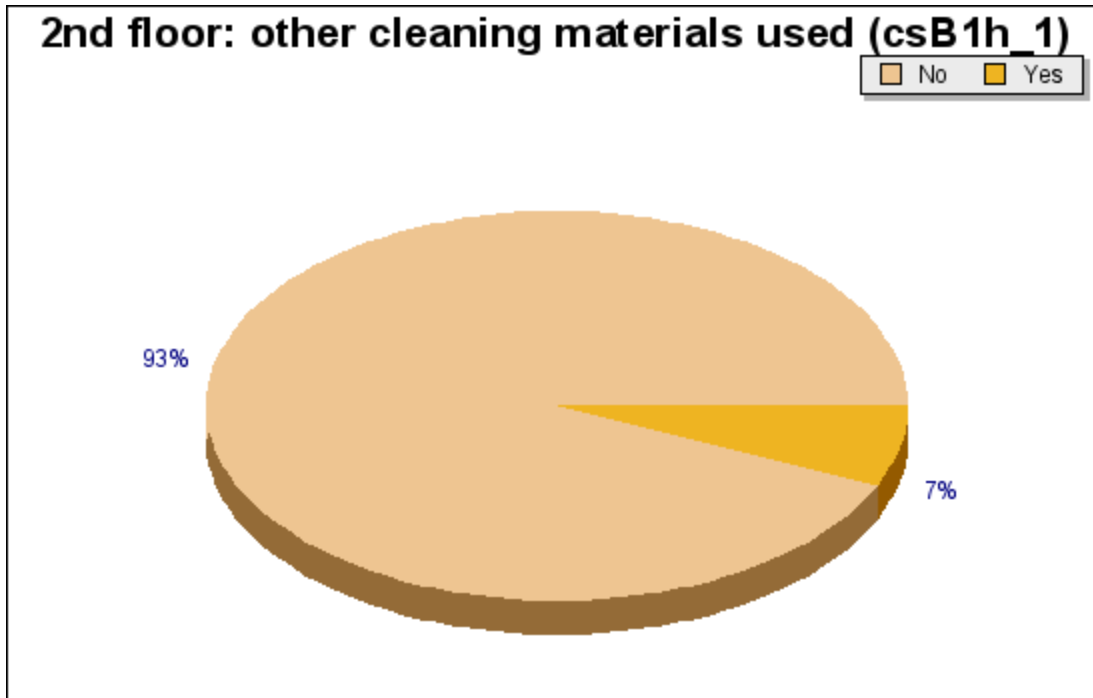
Question csB1g_6a: 2nd floor: how often soap/detergent used



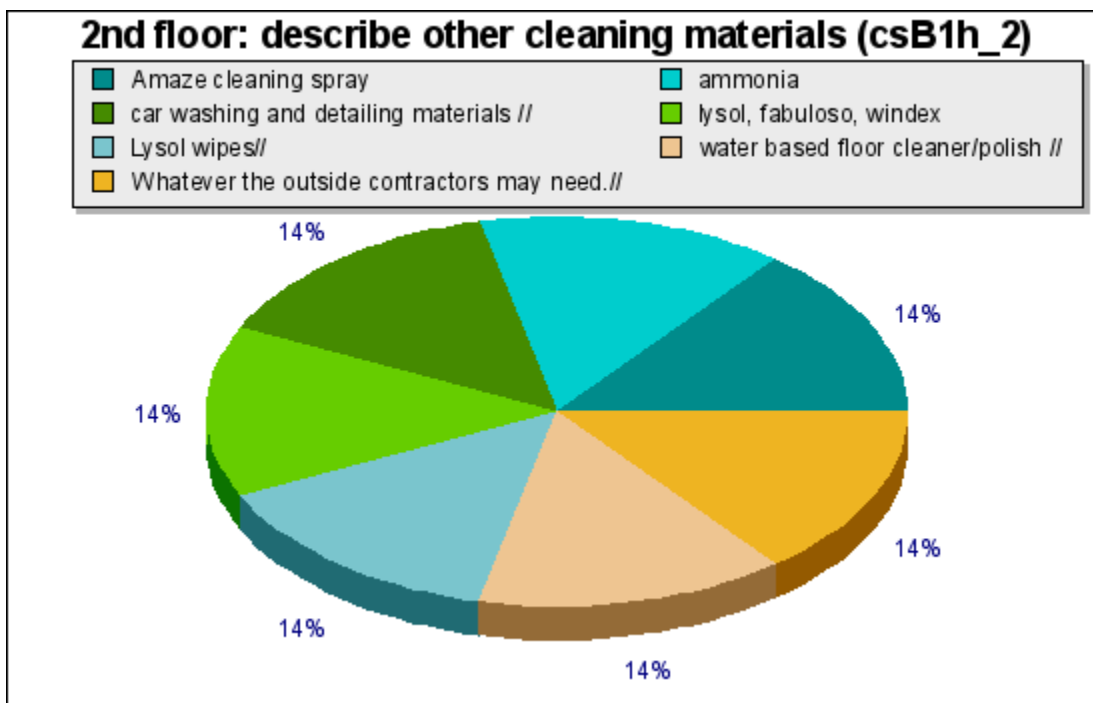
Question csB1g_7: 2nd floor: carpet cleaner used



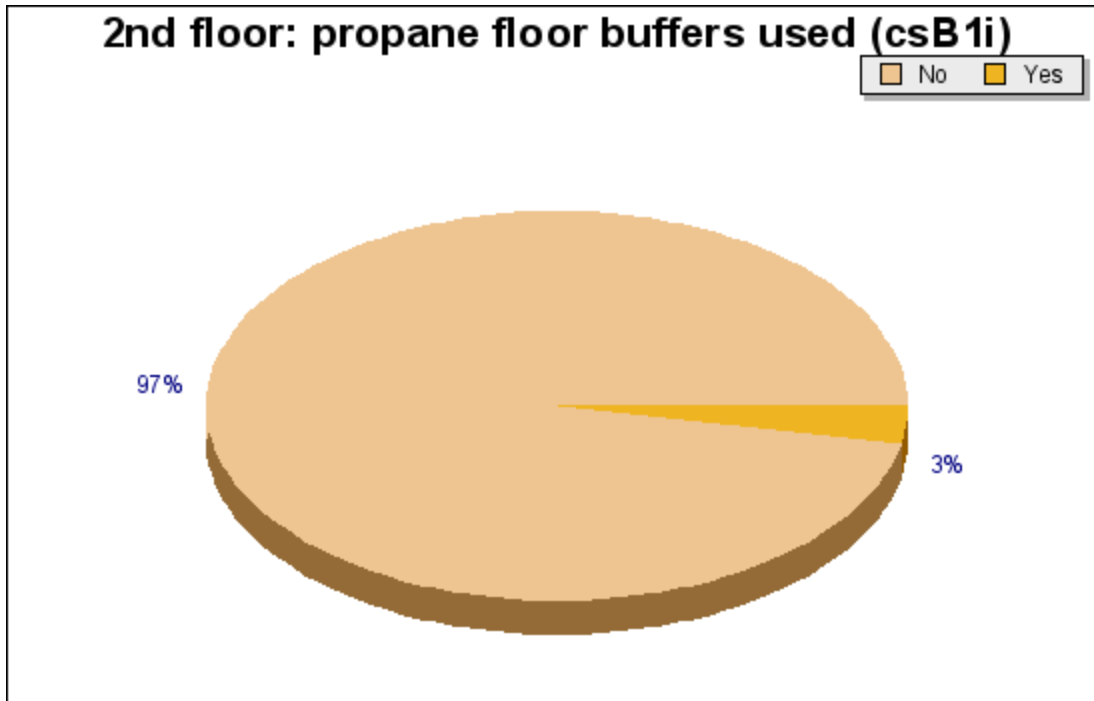
Question csB1g_7a: 2nd floor: how often carpet cleaner used



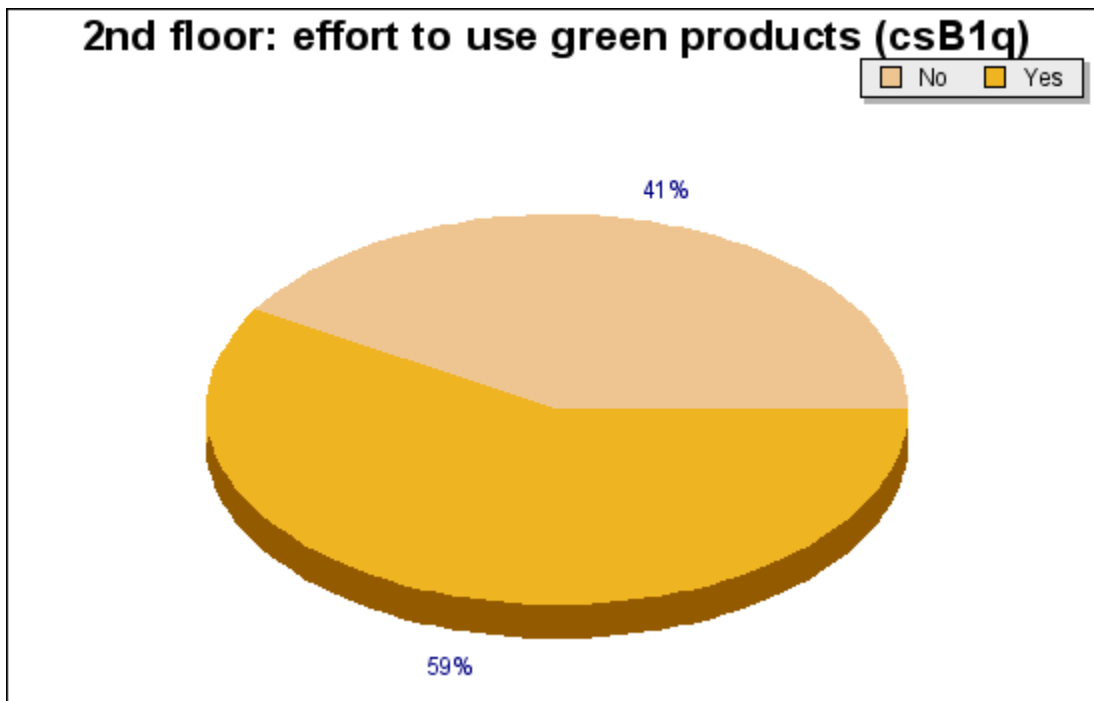
Question csB1h_1: 2nd floor: other cleaning materials used



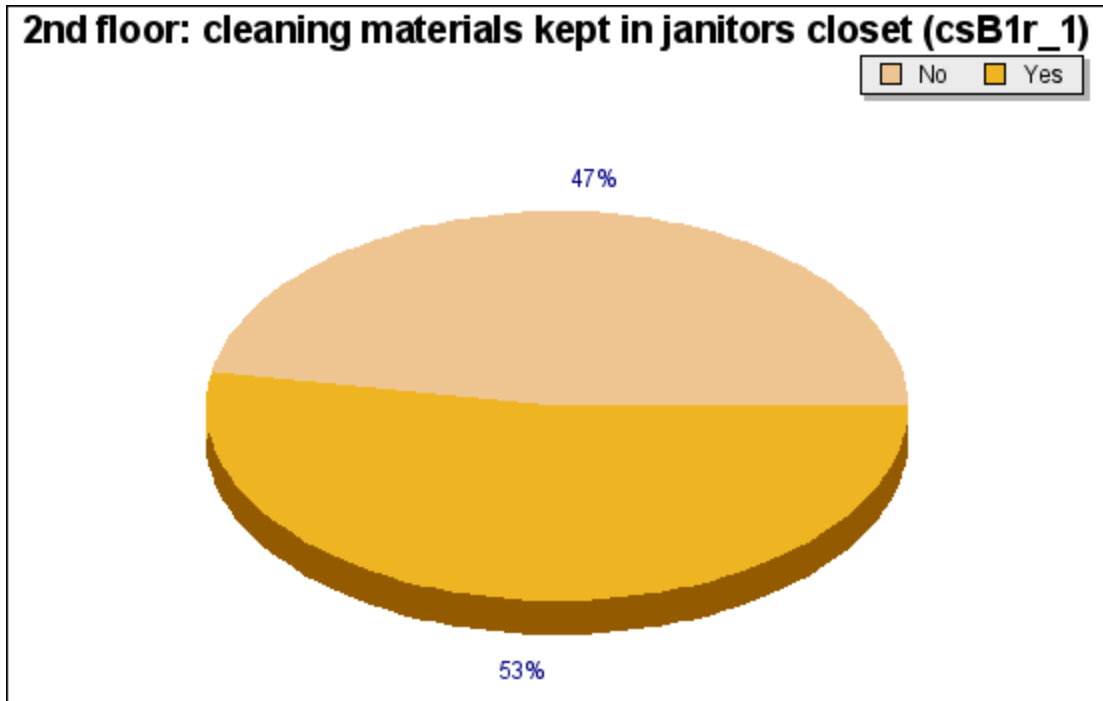
Question csB1h_2: 2nd floor: describe other cleaning materials



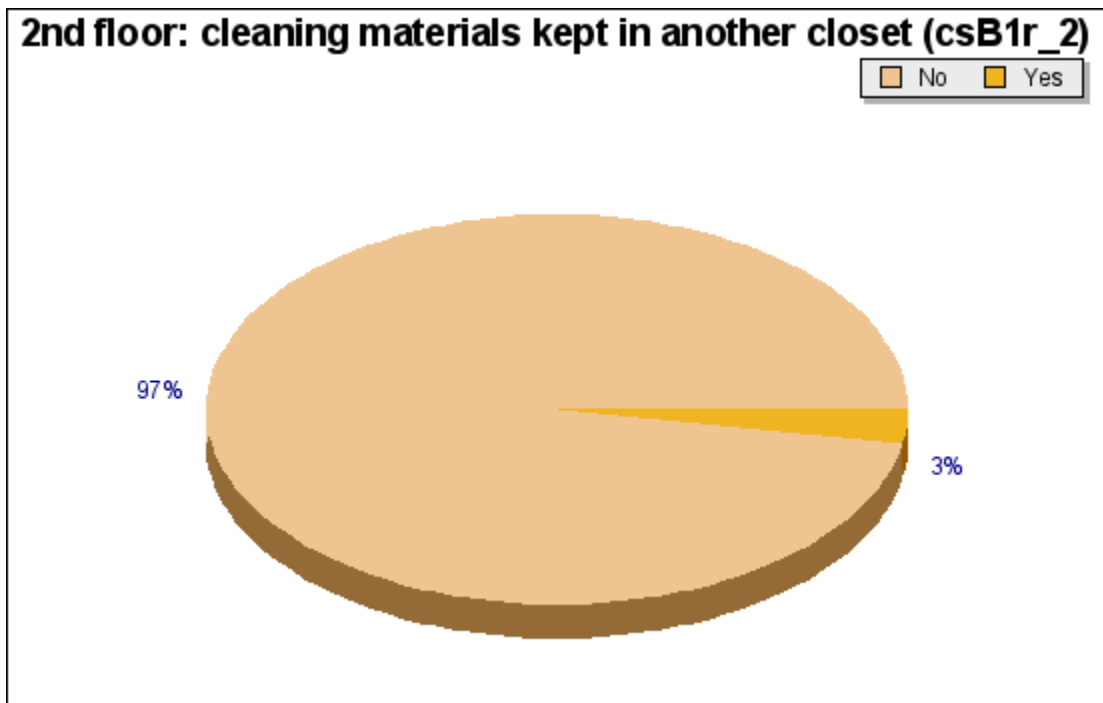
Question csB1i: 2nd floor: propane floor buffers used



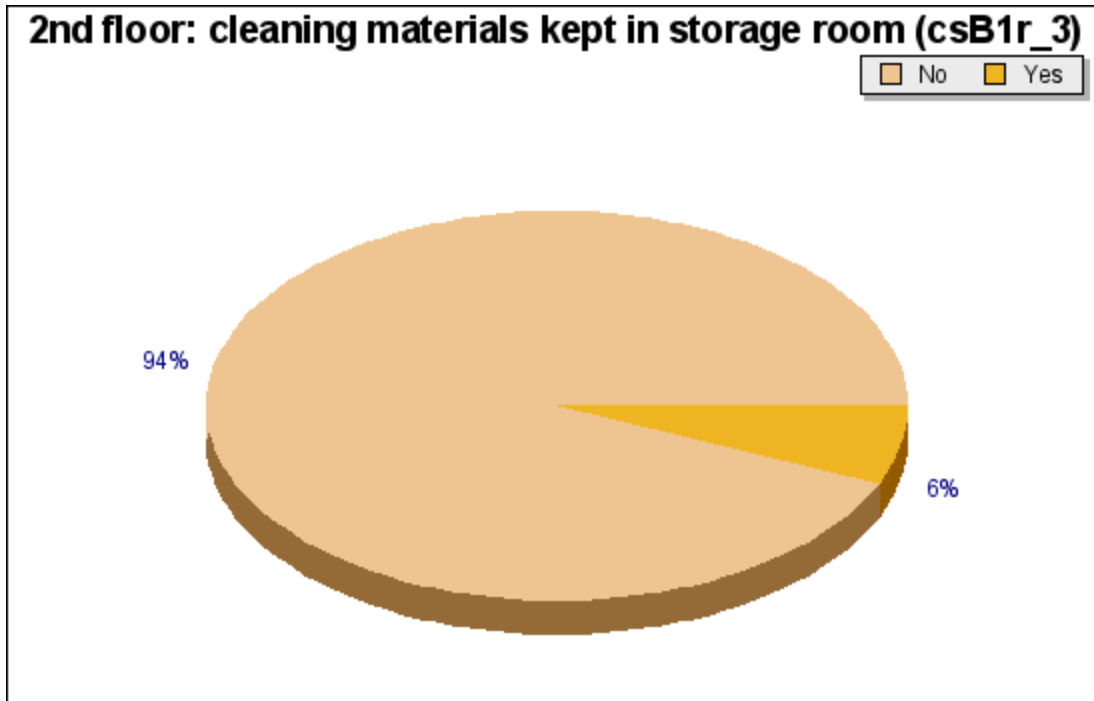
Question csB1q: 2nd floor: effort to use green products



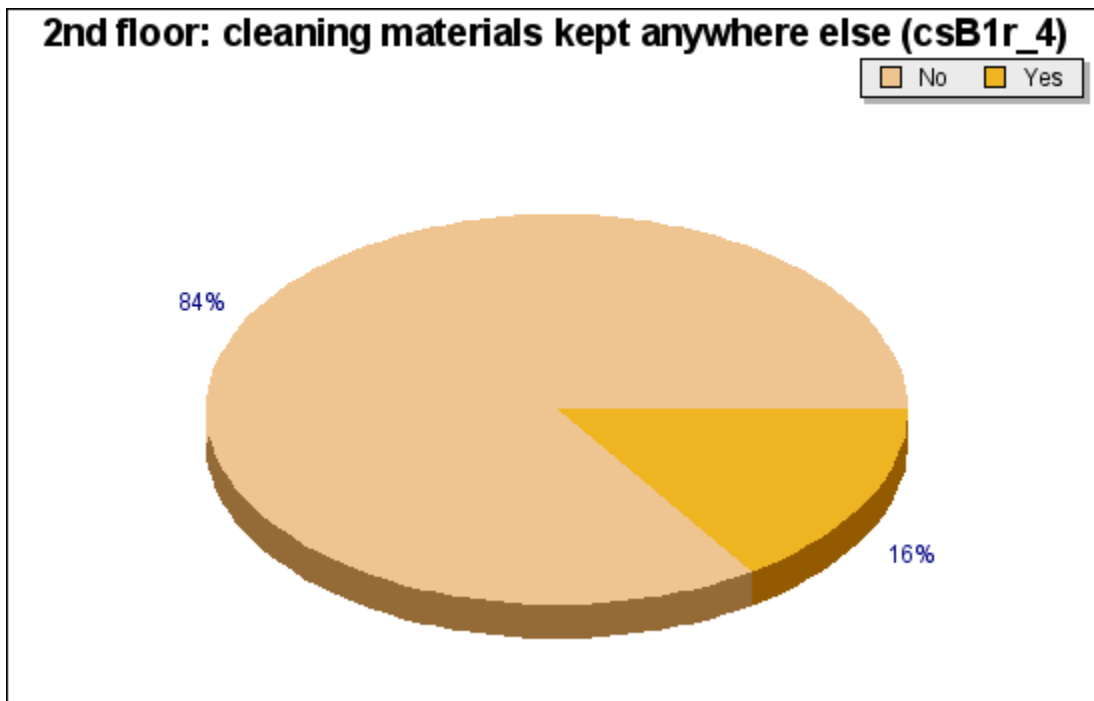
Question csB1r_1: 2nd floor: cleaning materials kept in janitors closet



Question csB1r_2: 2nd floor: cleaning materials kept in another closet

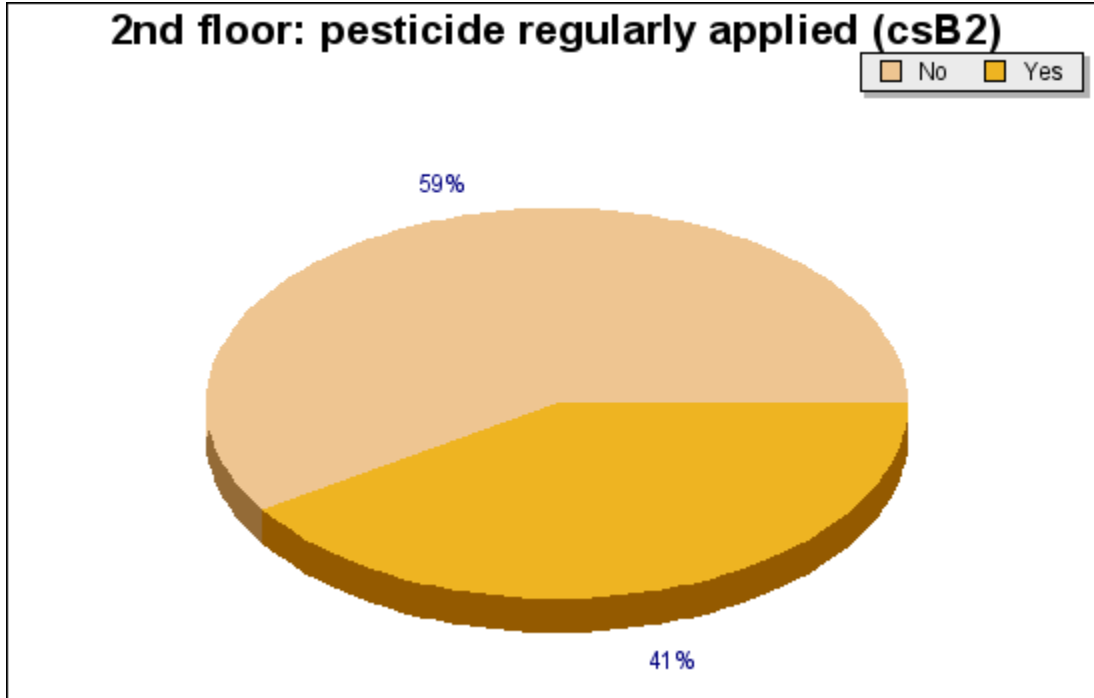


Question csB1r_3: 2nd floor: cleaning materials kept in storage room

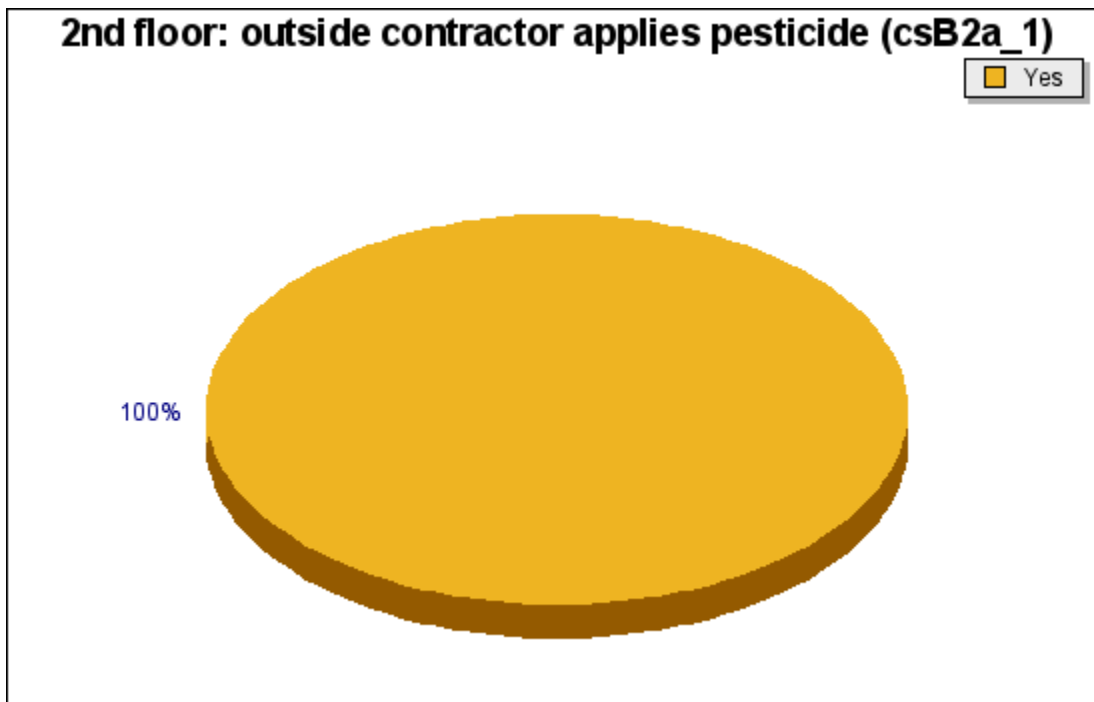


Question csB1r_4: 2nd floor: cleaning materials kept anywhere else

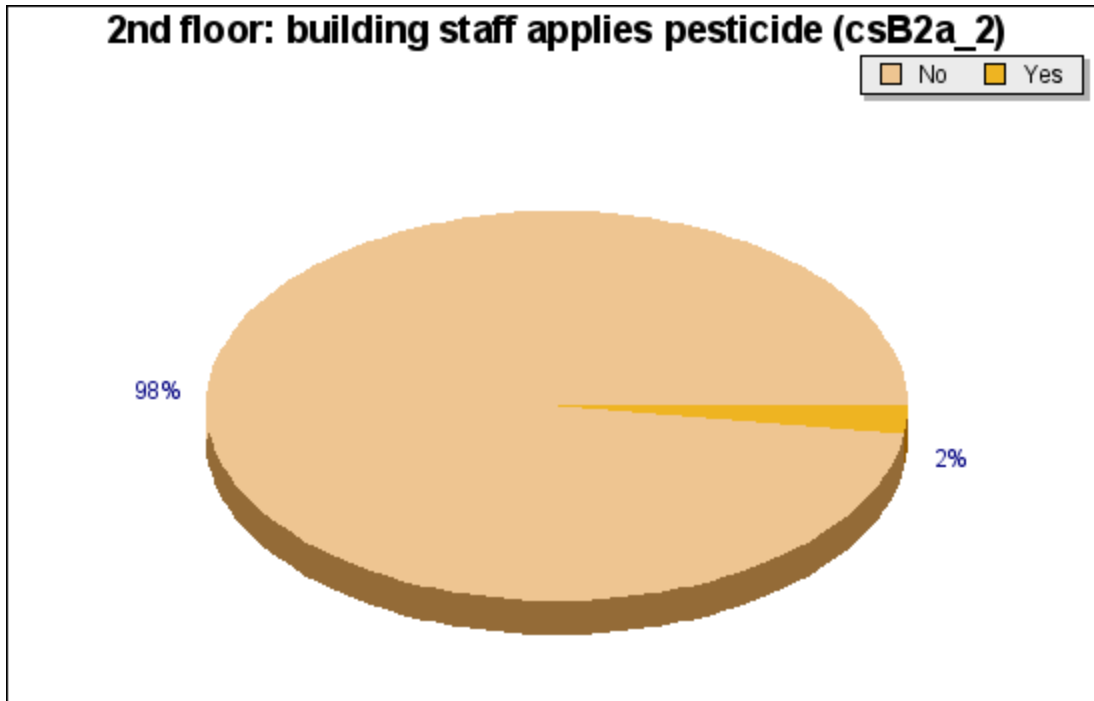
Regular Interior/exterior Pesticide: 2nd Floor



Question csB2: 2nd floor: pesticide regularly applied



Question csB2a_1: 2nd floor: outside contractor applies pesticide

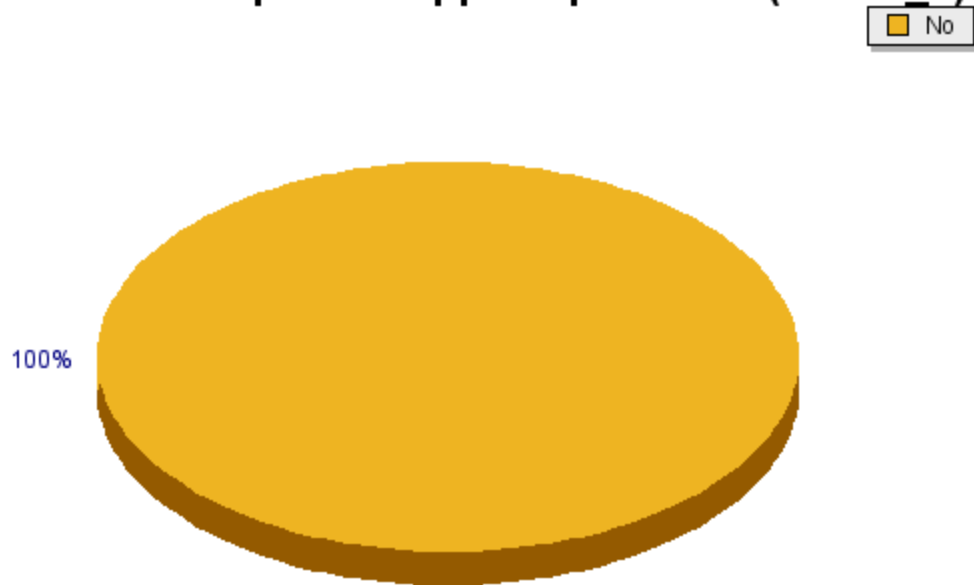


Question csB2a_2: 2nd floor: building staff applies pesticide



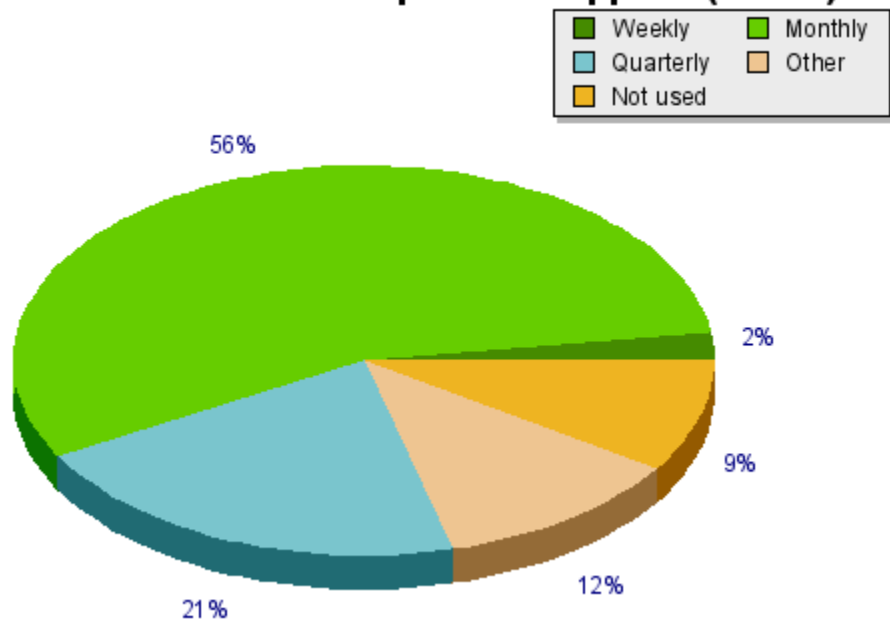
Question csB2a_3: 2nd floor: employees apply pesticide

2nd floor: other person applies pesticide (csB2a_4)

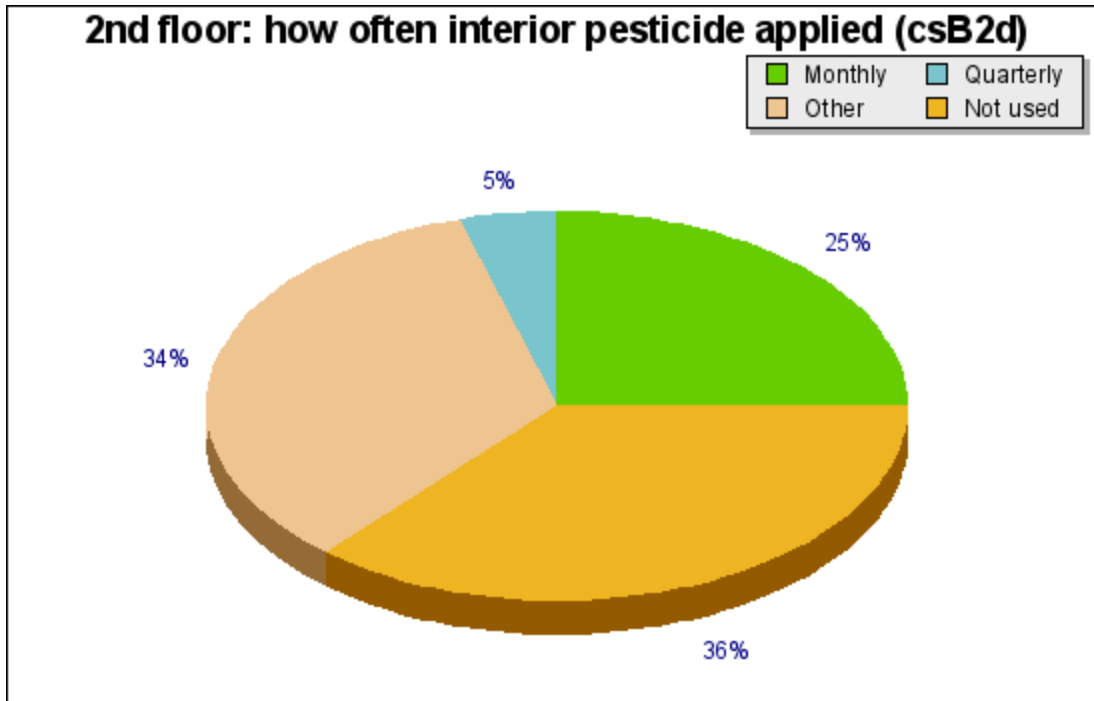


Question csB2a_4: 2nd floor: other person applies pesticide

2nd floor: how often exterior pesticide applied (csB2b)



Question csB2b: 2nd floor: how often exterior pesticide applied



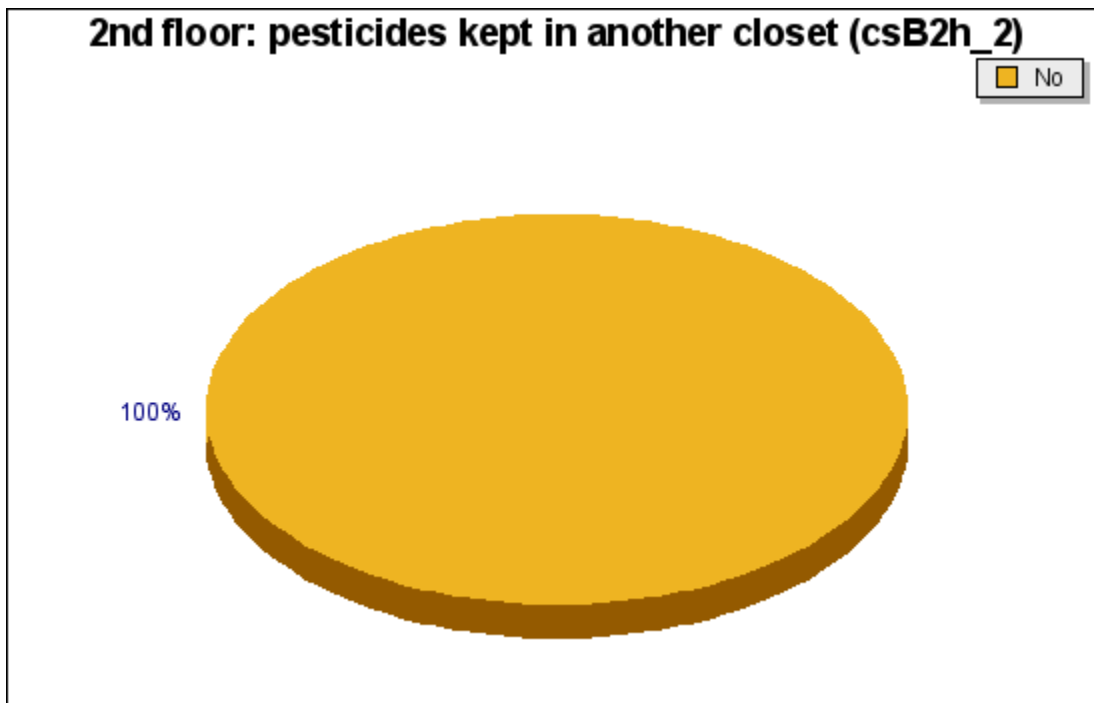
Question csB2d: 2nd floor: how often interior pesticide applied



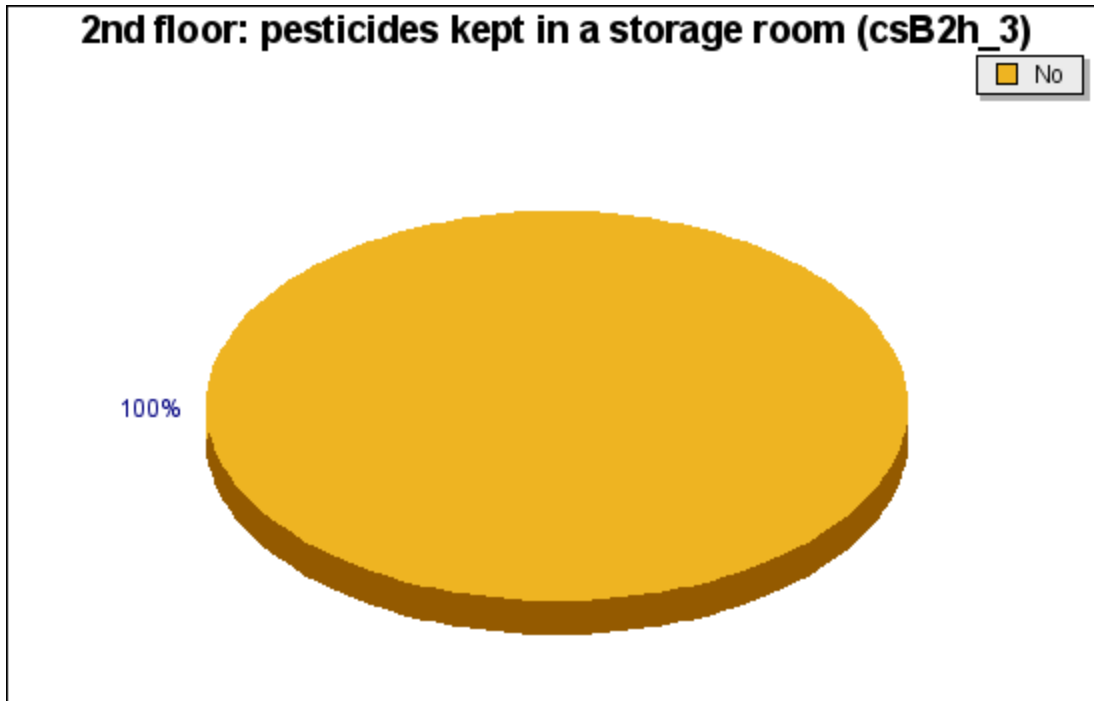
Question csB2g: 2nd floor: pesticides stored on- or off-site



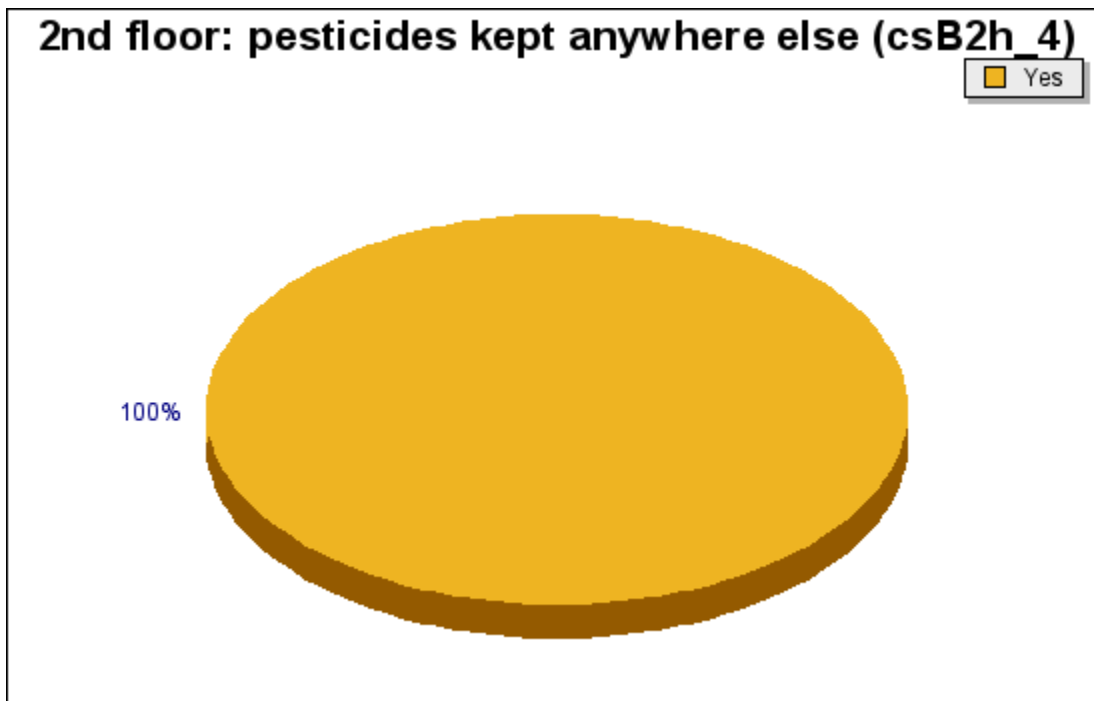
Question csB2h_1: 2nd floor: pesticides kept in janitors closet



Question csB2h_2: 2nd floor: pesticides kept in another closet

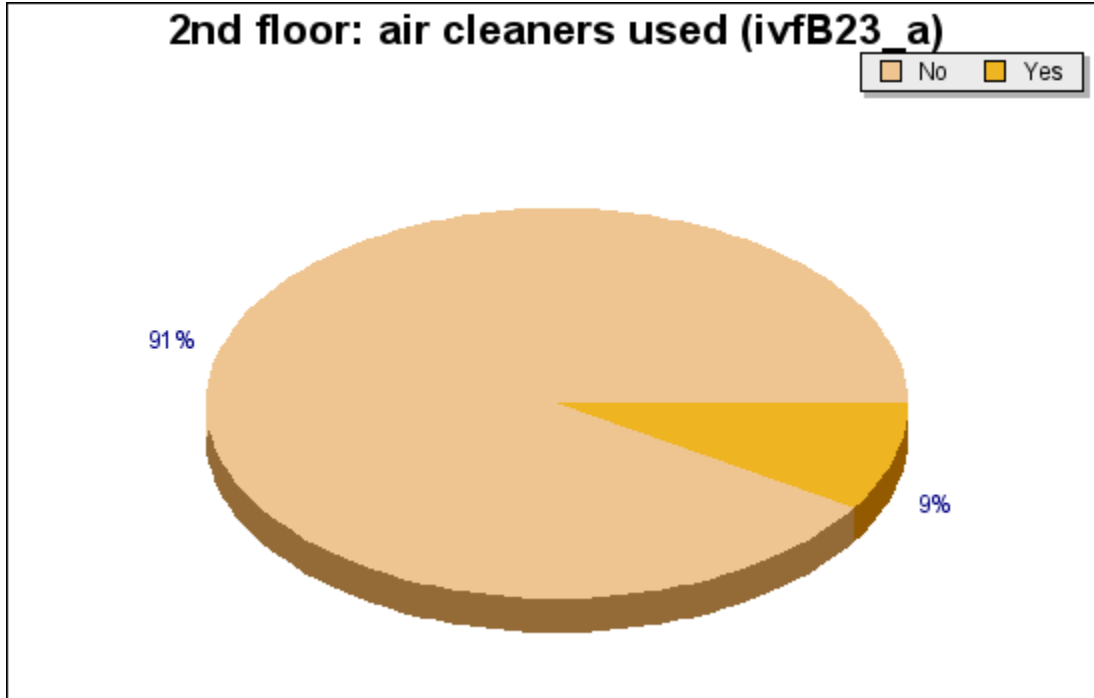


Question csB2h_3: 2nd floor: pesticides kept in a storage room

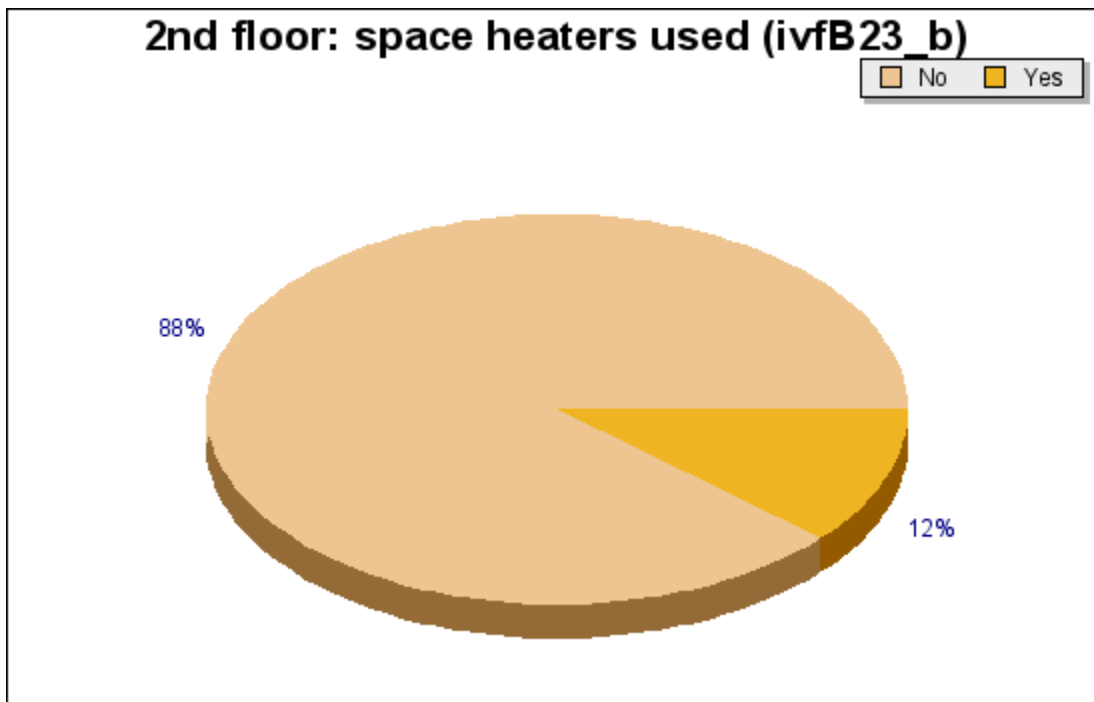


Question csB2h_4: 2nd floor: pesticides kept anywhere else

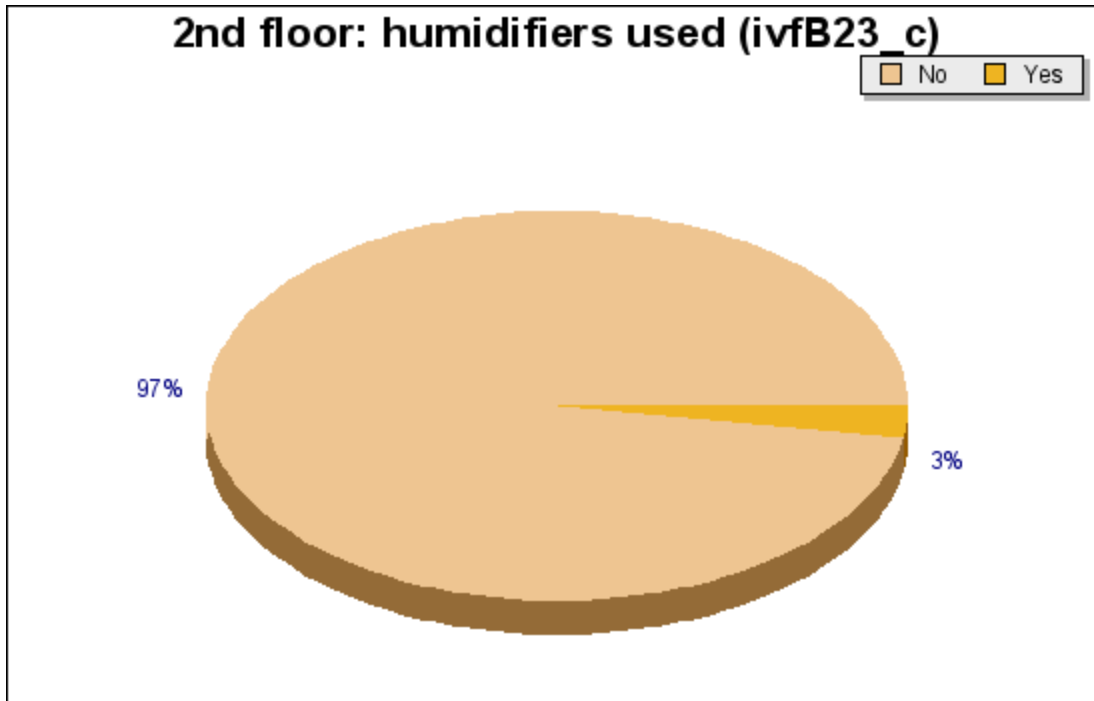
Indoor Ventilation Fixtures: 2nd Floor



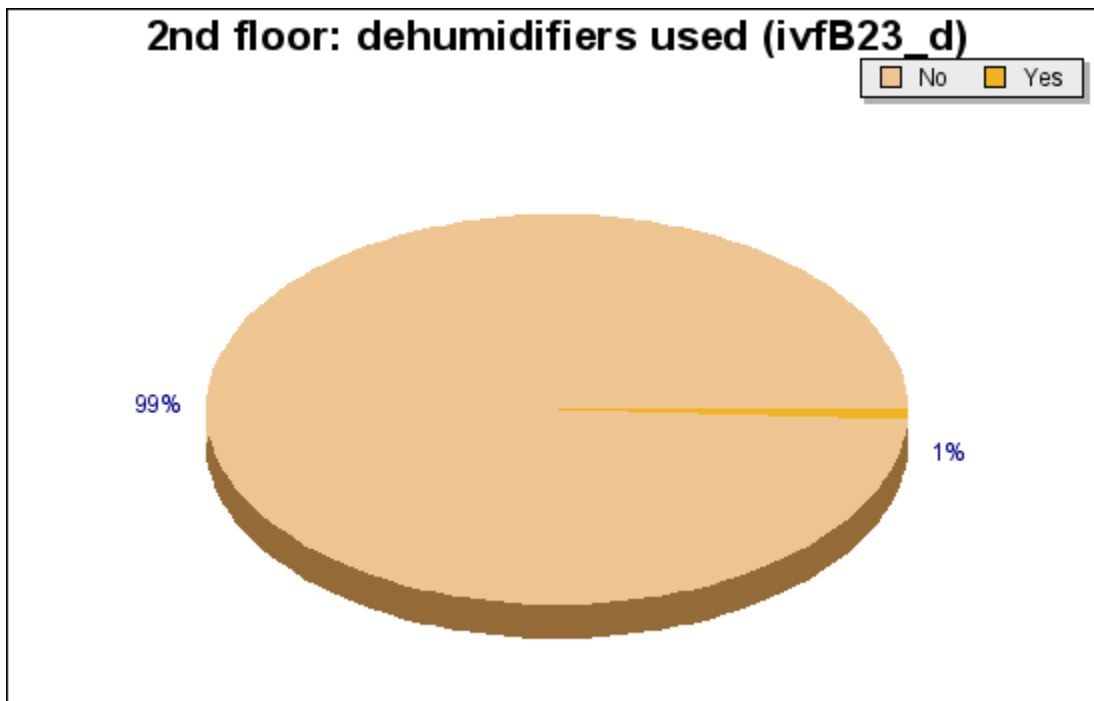
Question ivfB23_a: 2nd floor: air cleaners used



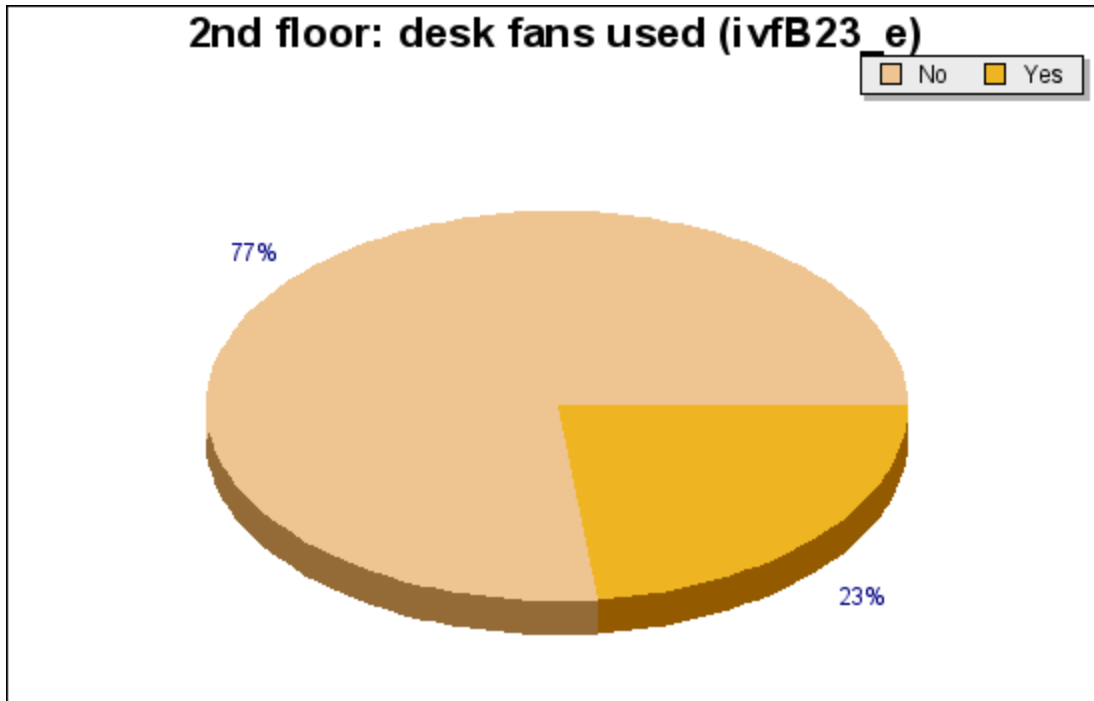
Question ivfB23_b: 2nd floor: space heaters used



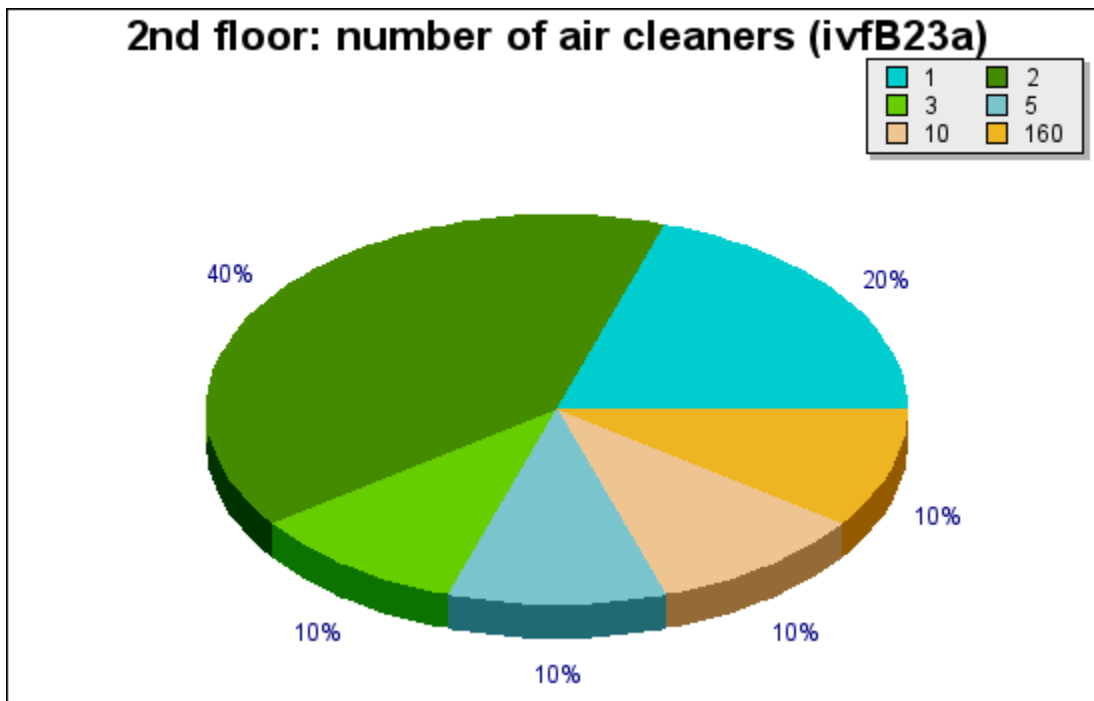
Question ivfB23_c: 2nd floor: humidifiers used



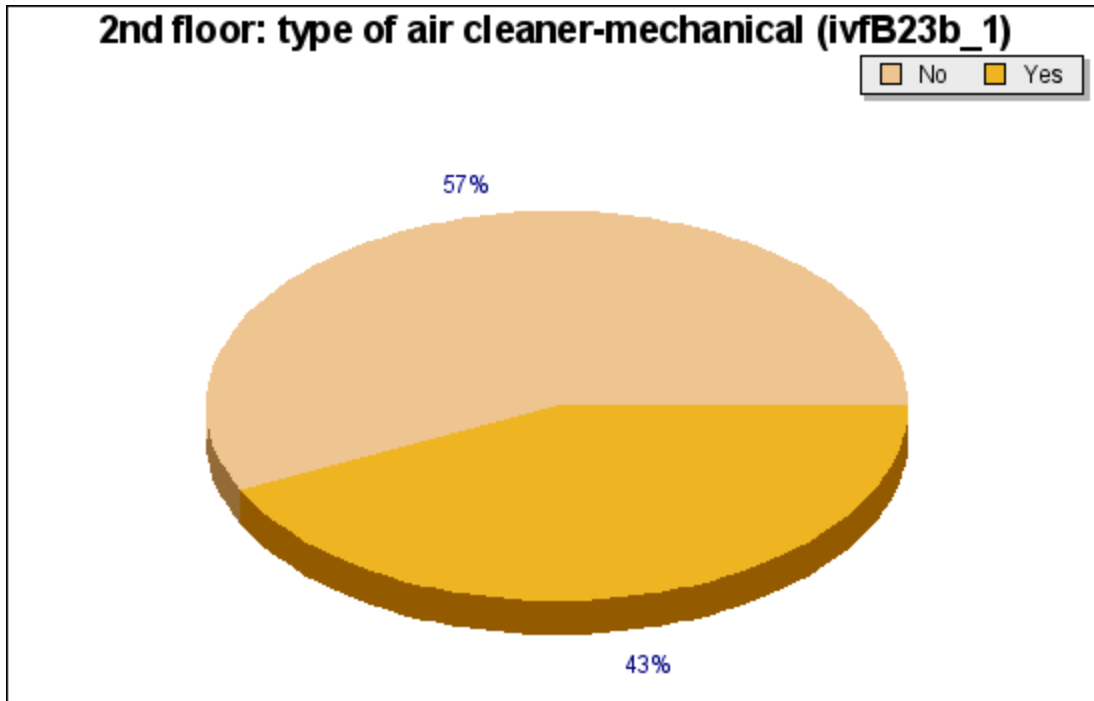
Question ivfB23_d: 2nd floor: dehumidifiers used



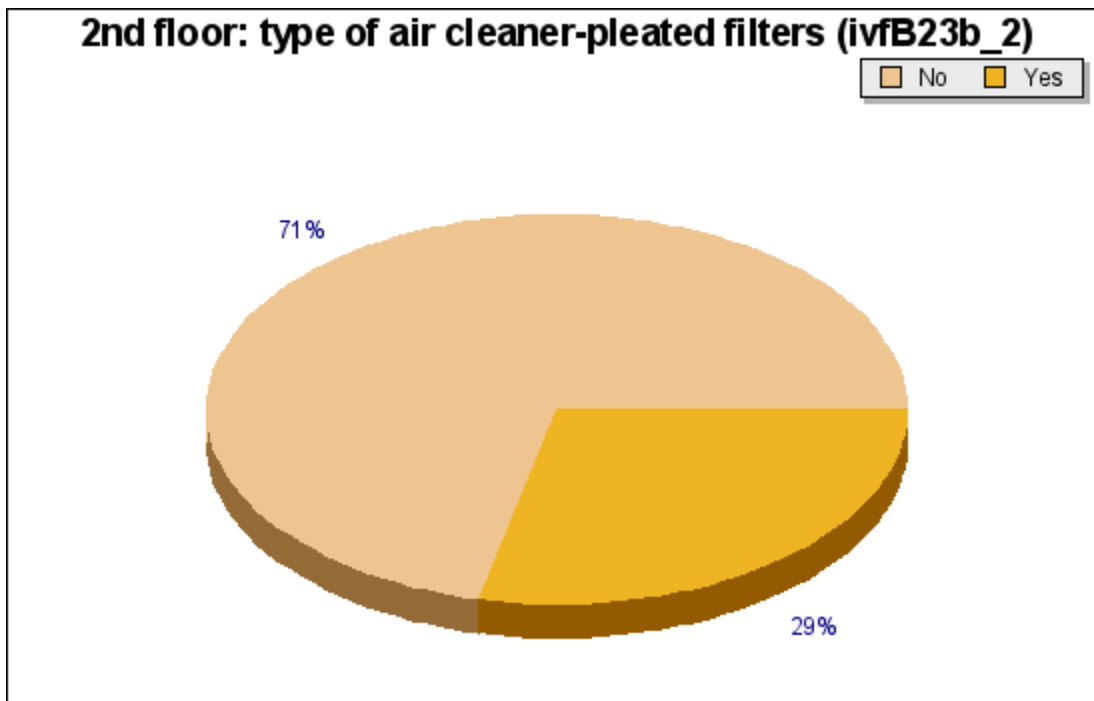
Question ivfB23_e: 2nd floor: desk fans used



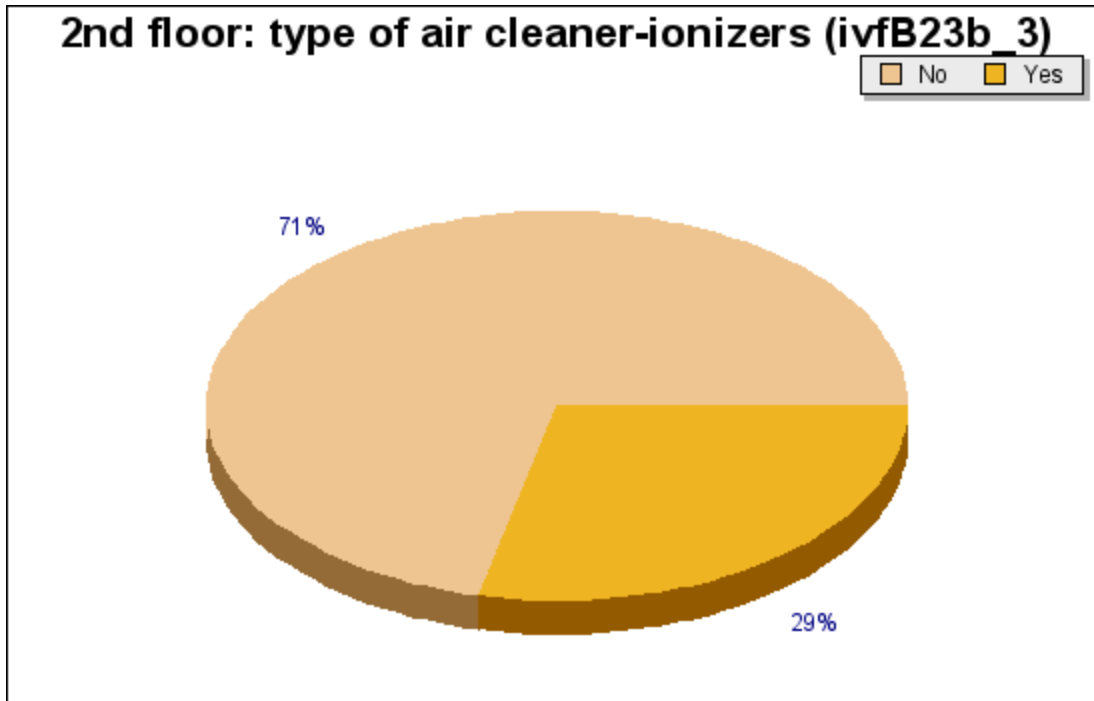
Question ivfB23a: 2nd floor: number of air cleaners



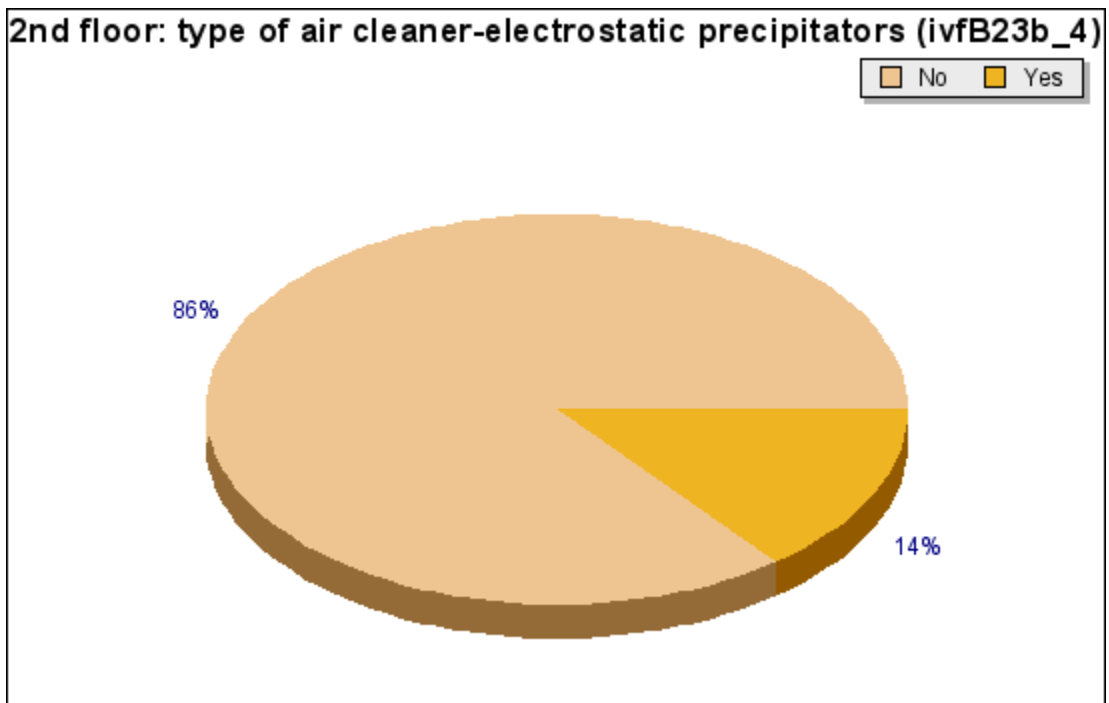
Question ivfB23b_1: 2nd floor: type of air cleaner-mechanical



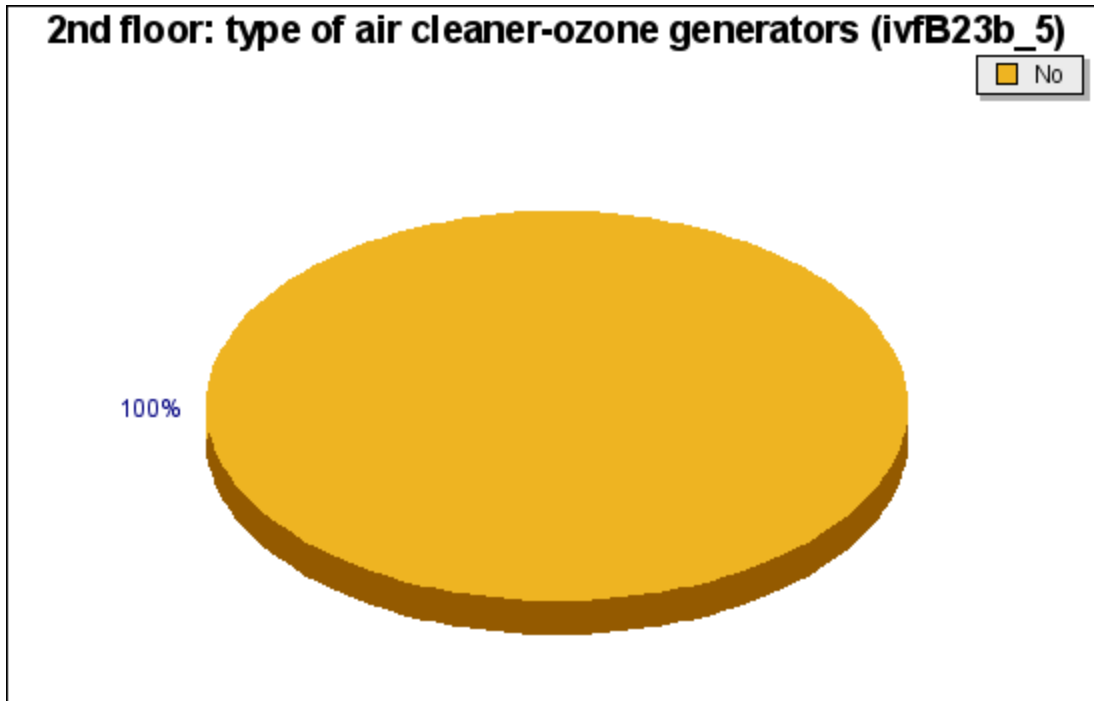
Question ivfB23b_2: 2nd floor: type of air cleaner-pleated filters



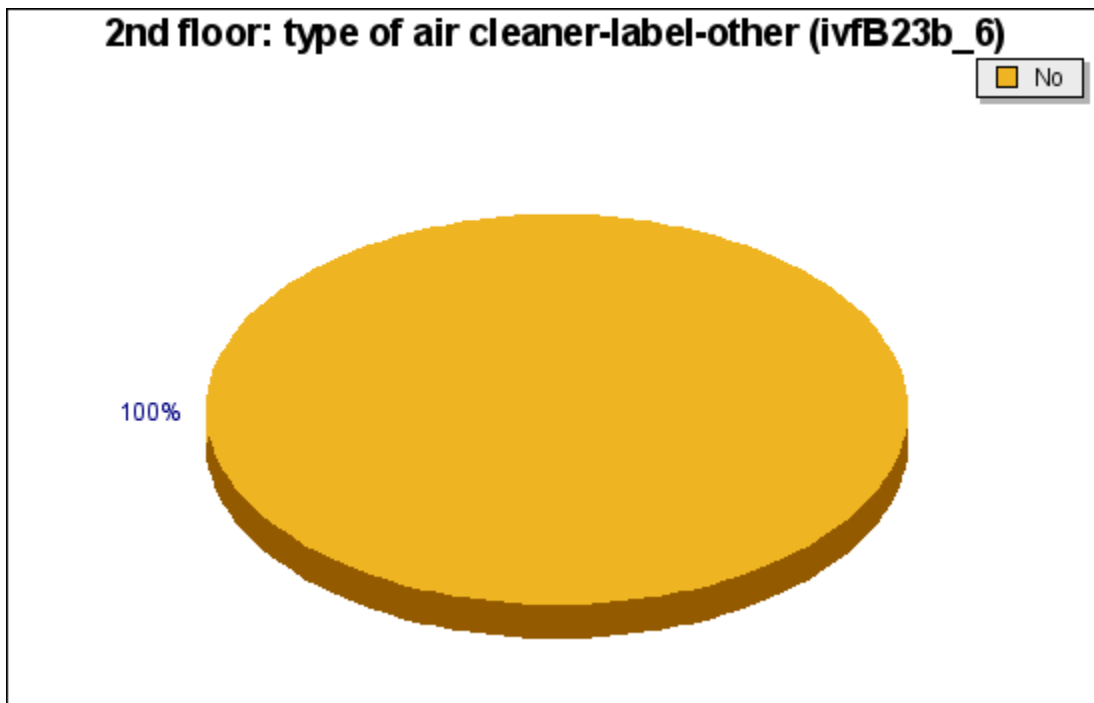
Question ivfB23b_3: 2nd floor: type of air cleaner-ionizers



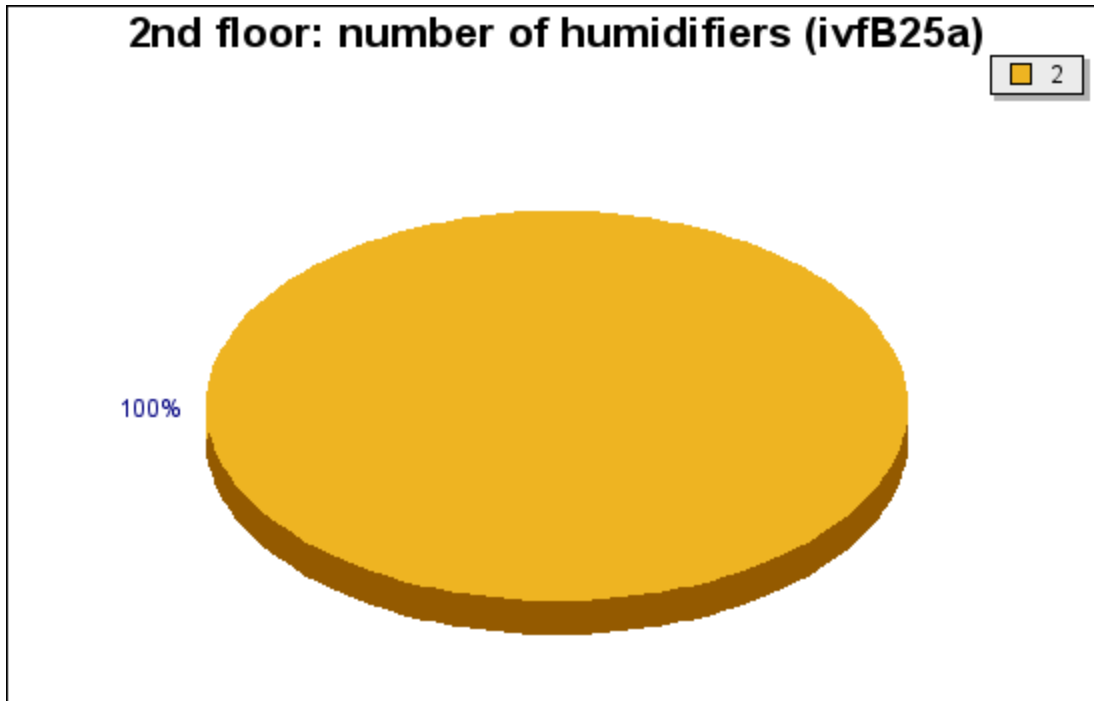
Question ivfB23b_4: 2nd floor: type of air cleaner-electrostatic precipitators



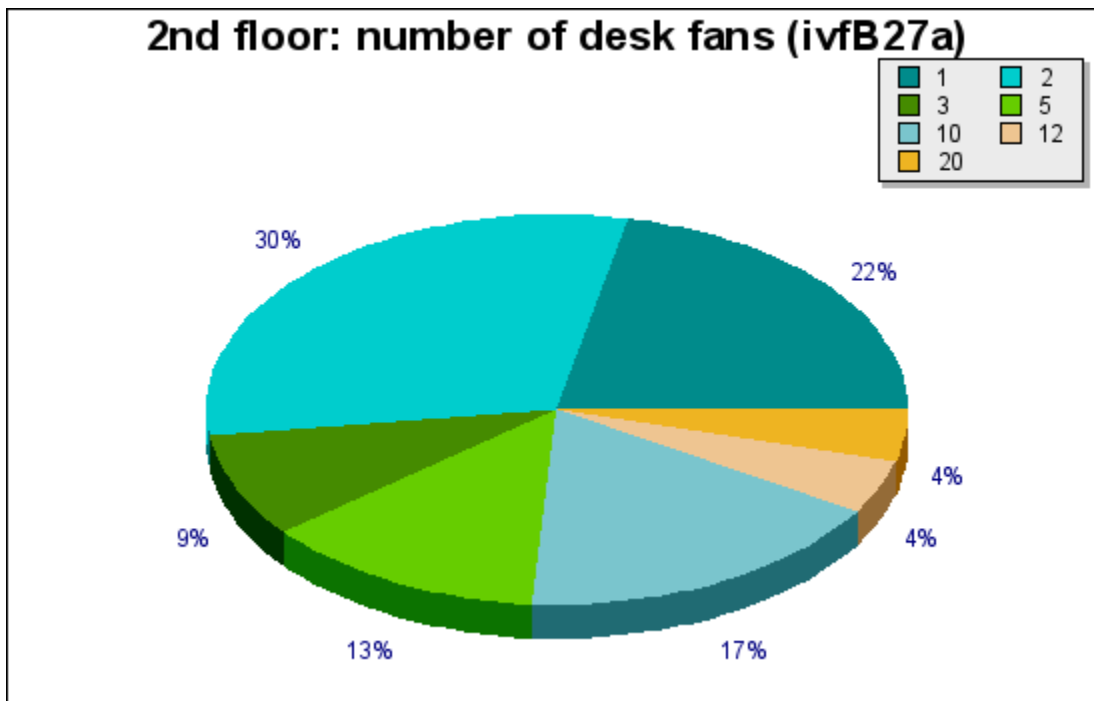
Question ivfB23b_5: 2nd floor: type of air cleaner-ozone generators



Question ivfB23b_6: 2nd floor: type of air cleaner-label-other



Question ivfB25a: 2nd floor: number of humidifiers



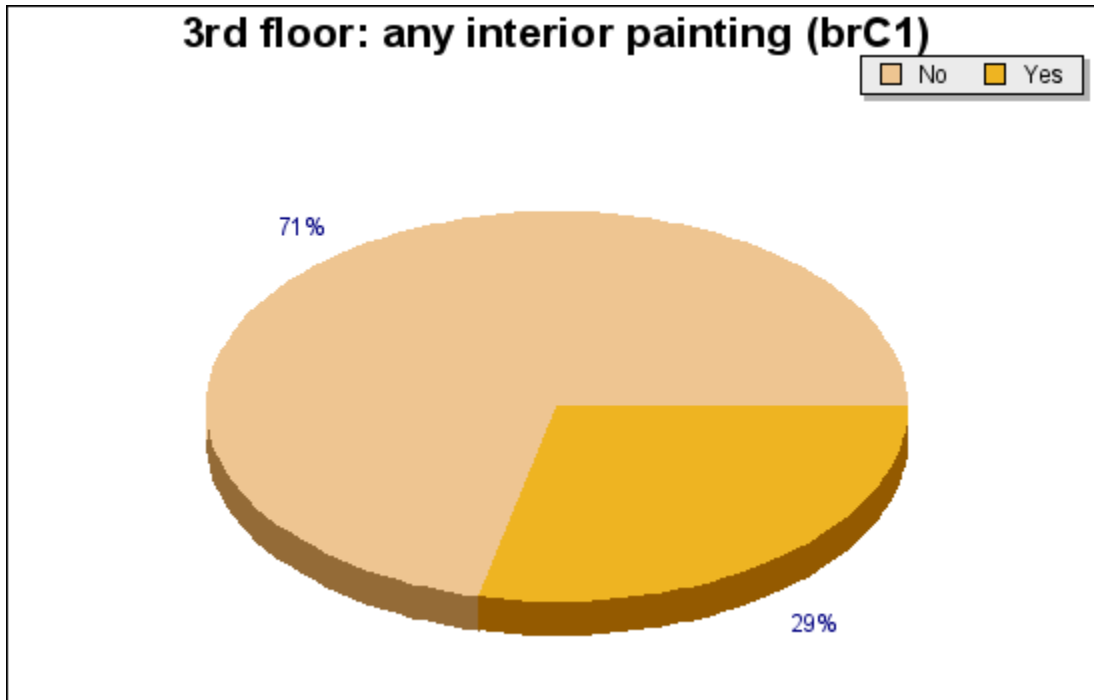
Question ivfB27a: 2nd floor: number of desk fans

Fire Damage: 3rd Floor

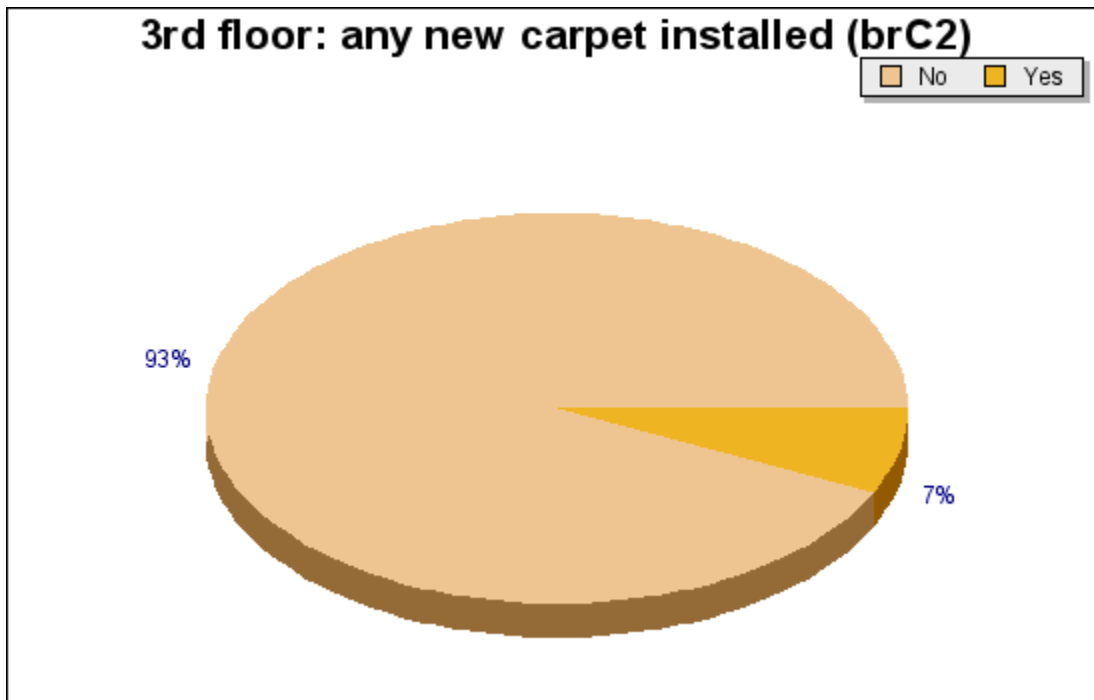


Question fdC1: 3rd floor: any fire damage

Building Renovations: 3rd Floor



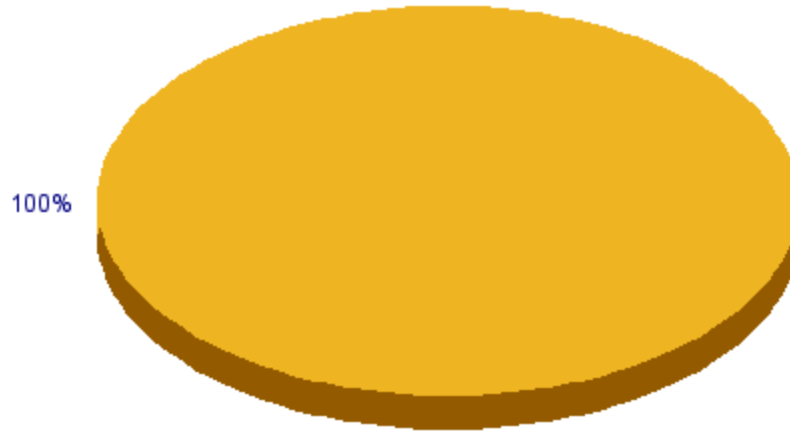
Question brC1: 3rd floor: any interior painting



Question brC2: 3rd floor: any new carpet installed

3rd floor: new carpet type-natural fiber (brC2b_1)

☐ No



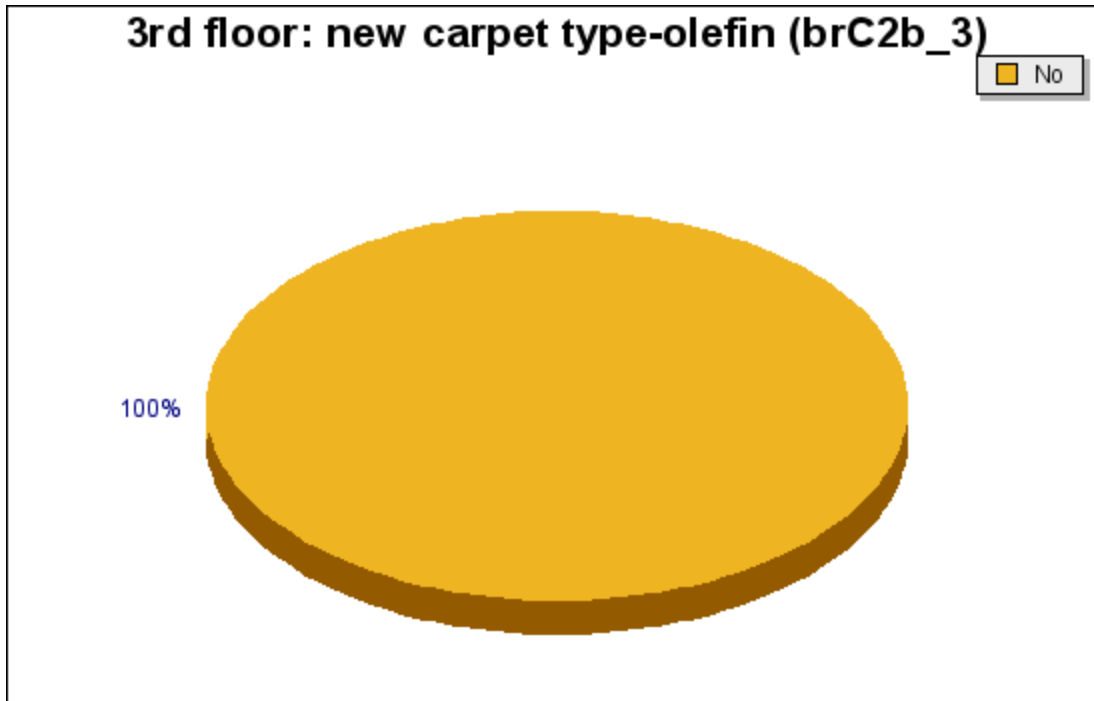
Question brC2b_1: 3rd floor: new carpet type-natural fiber

3rd floor: new carpet type-nylon (brC2b_2)

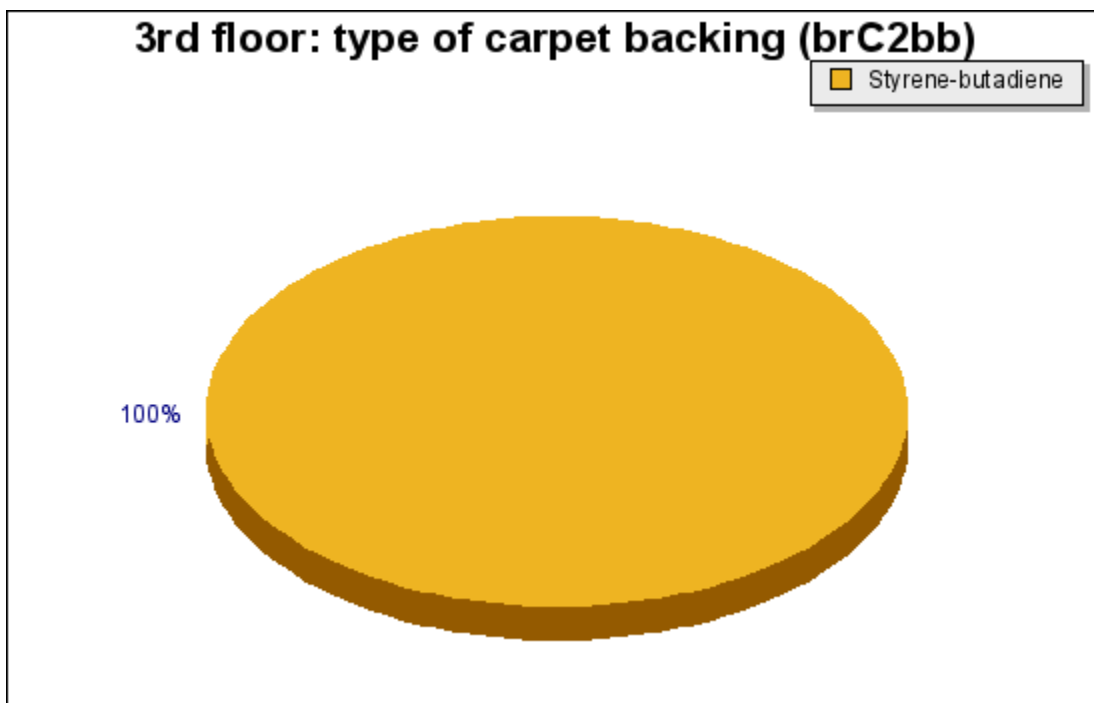
☐ Yes



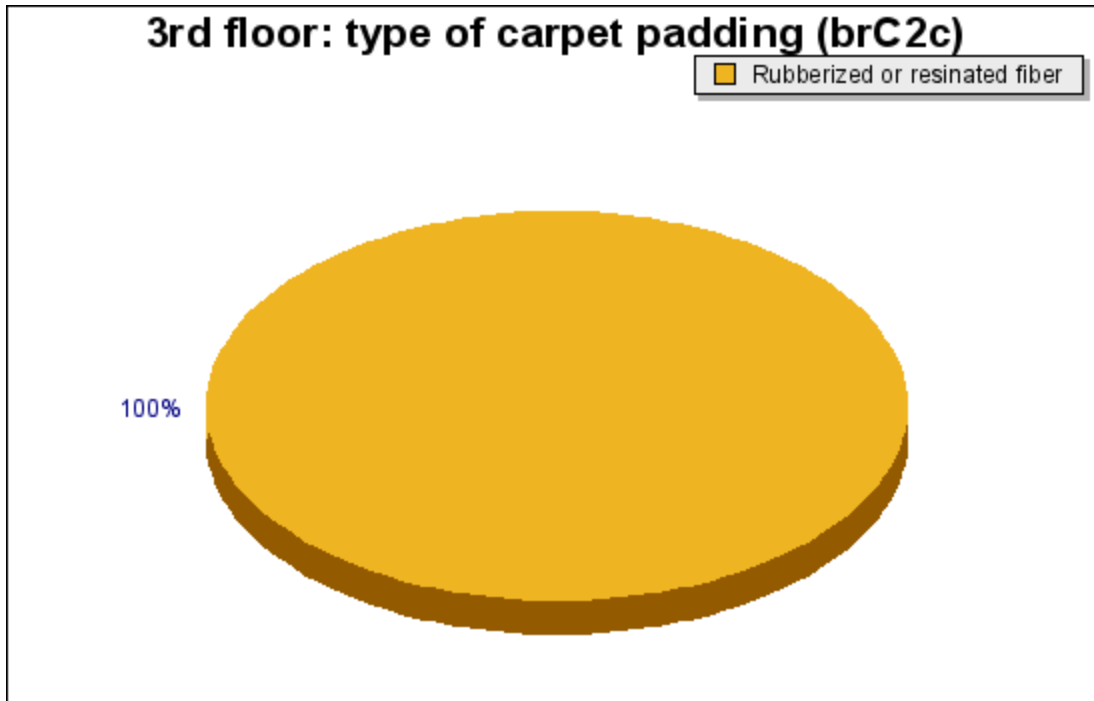
Question brC2b_2: 3rd floor: new carpet type-nylon



Question brC2b_3: 3rd floor: new carpet type-olefin



Question brC2bb: 3rd floor: type of carpet backing

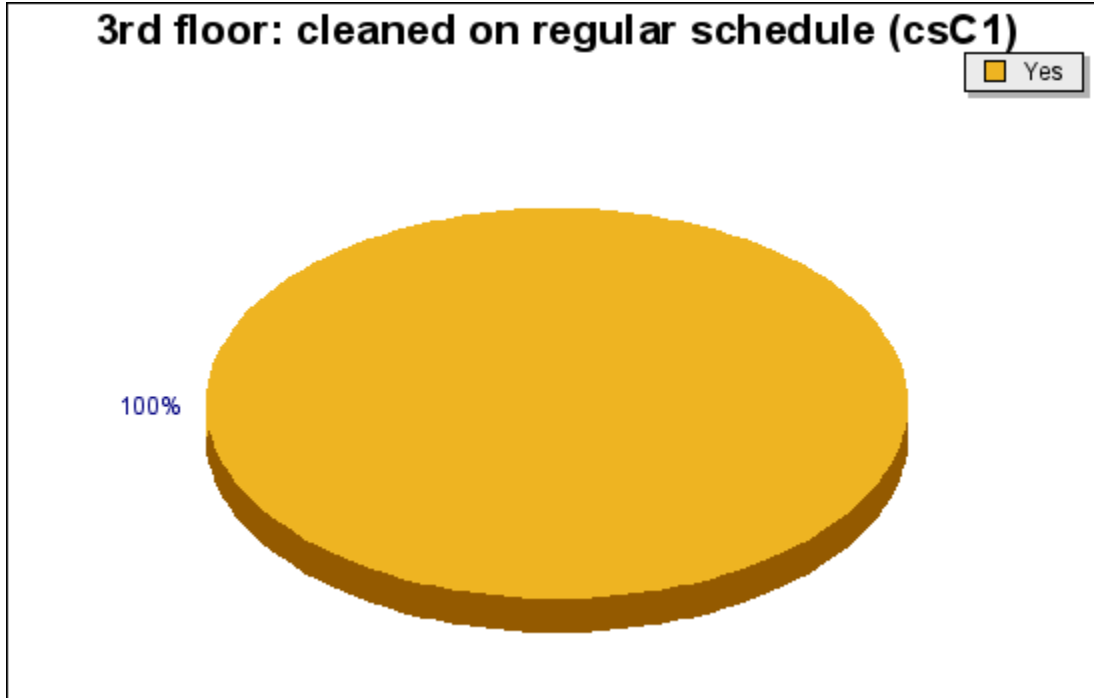


Question brC2c: 3rd floor: type of carpet padding

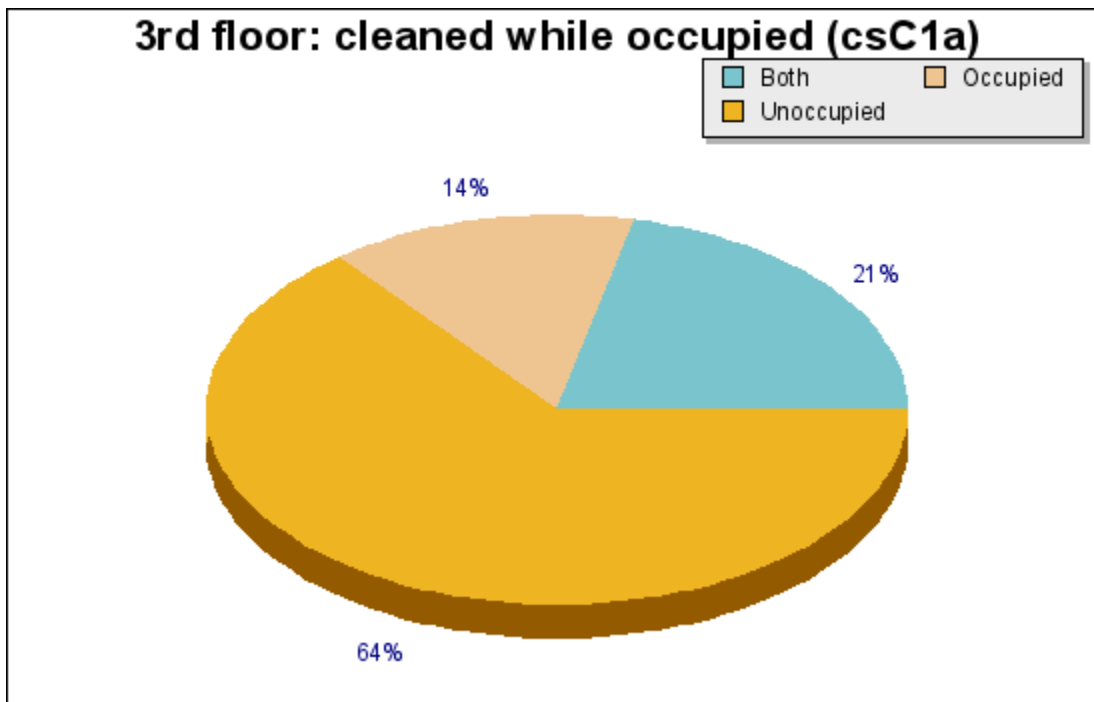


Question brC3: 3rd floor: any new furniture installed

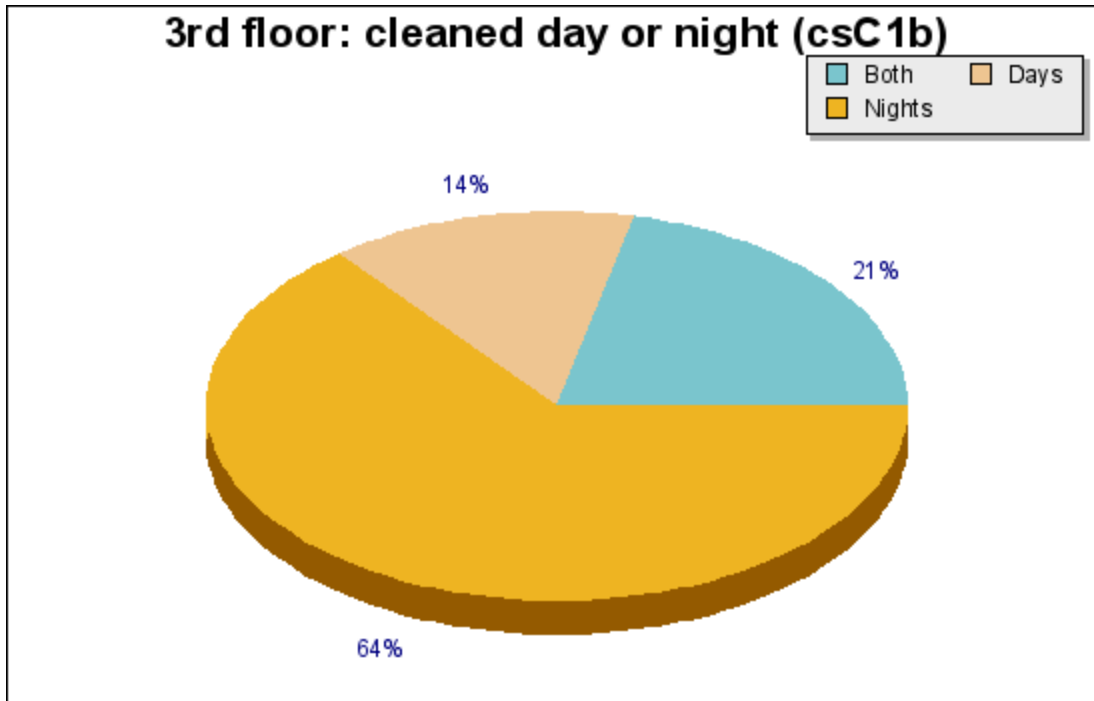
Cleaning Schedules: 3rd Floor



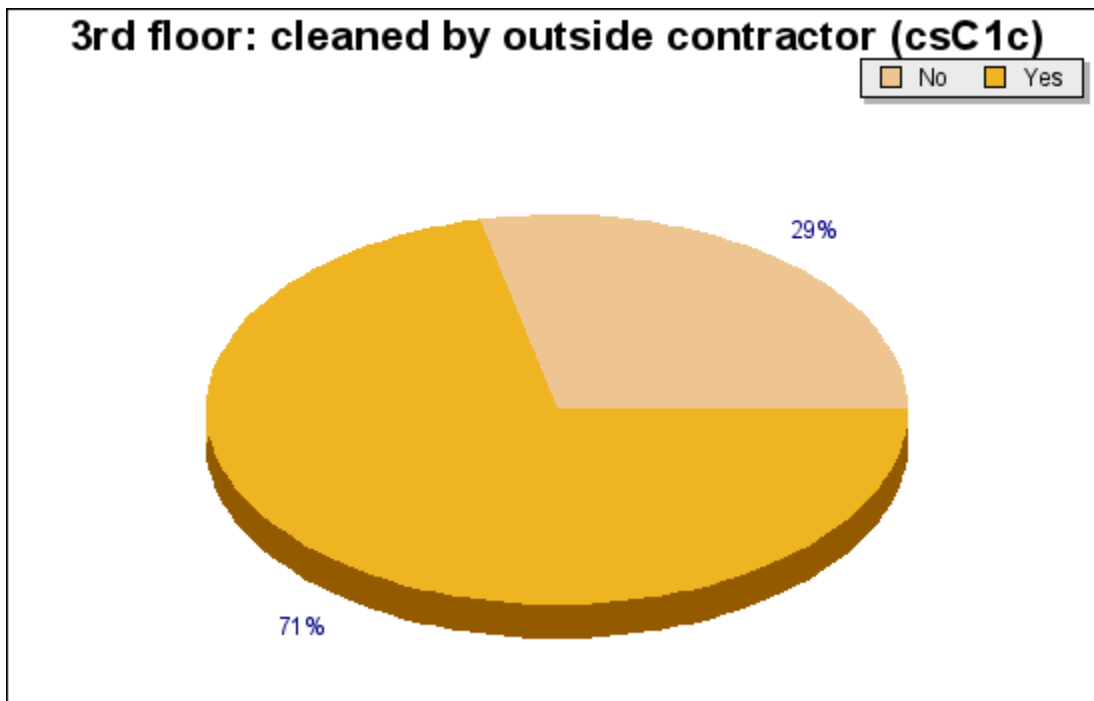
Question csC1: 3rd floor: cleaned on regular schedule



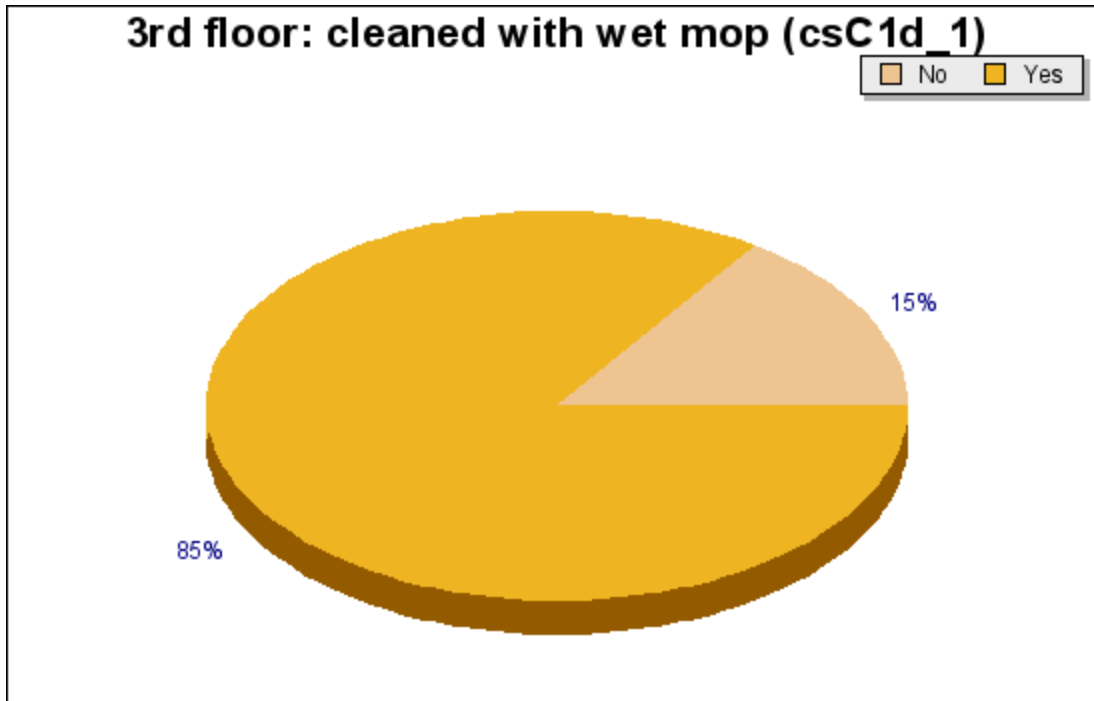
Question csC1a: 3rd floor: cleaned while occupied



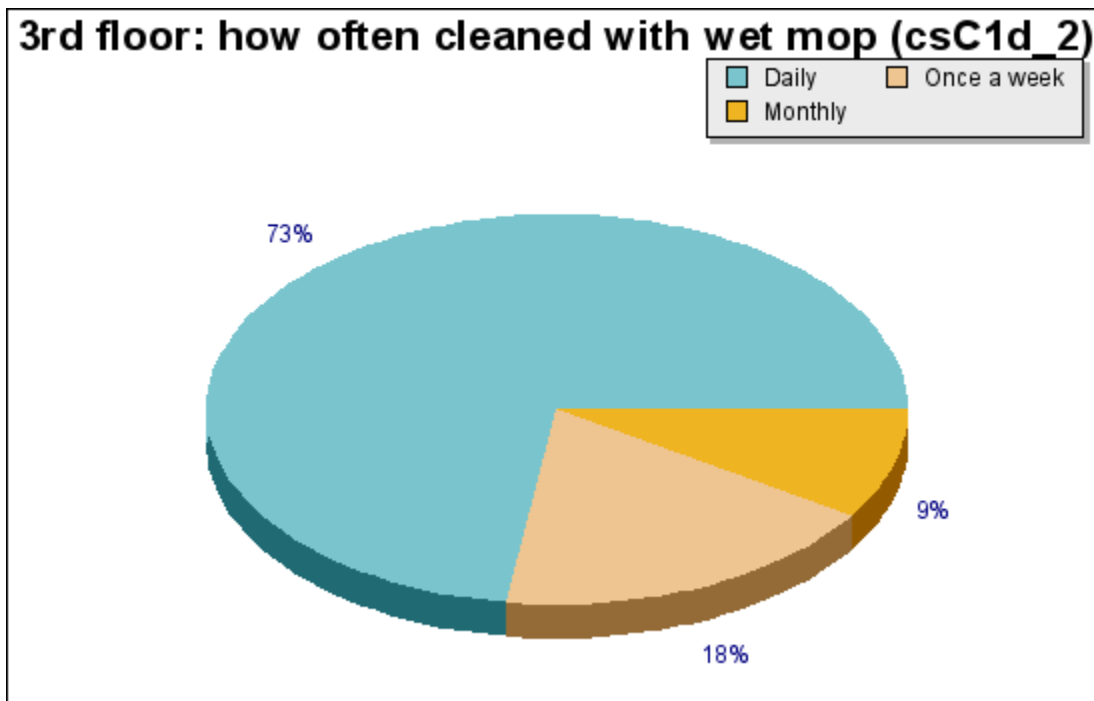
Question csC1b: 3rd floor: cleaned day or night



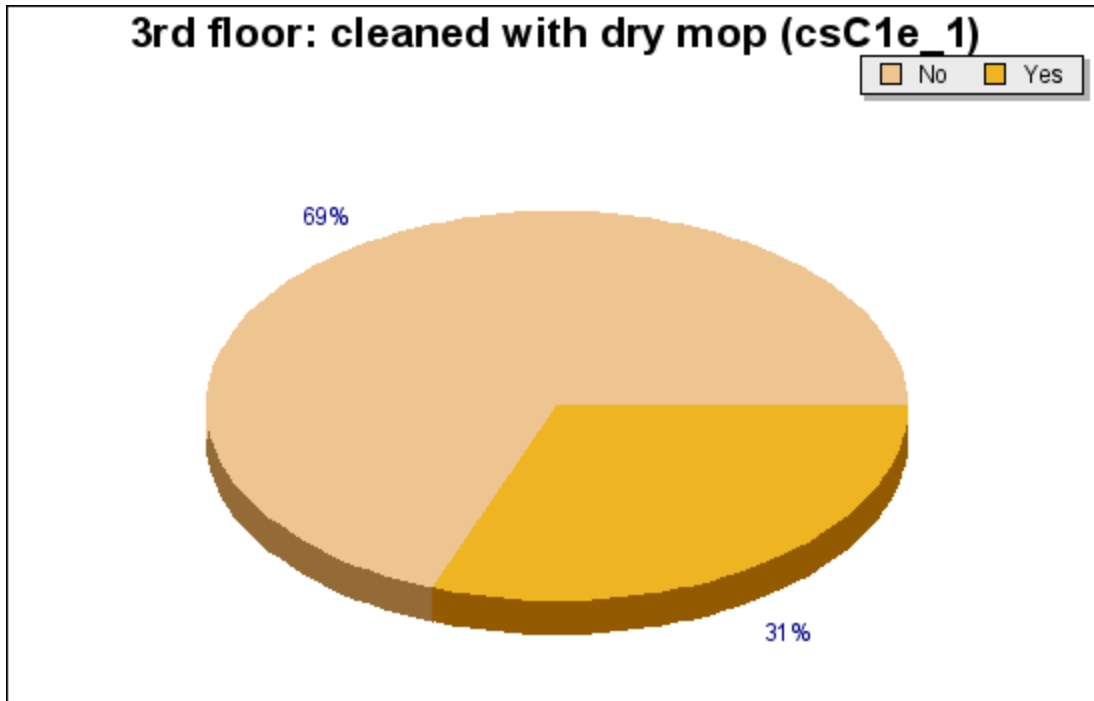
Question csC1c: 3rd floor: cleaned by outside contractor



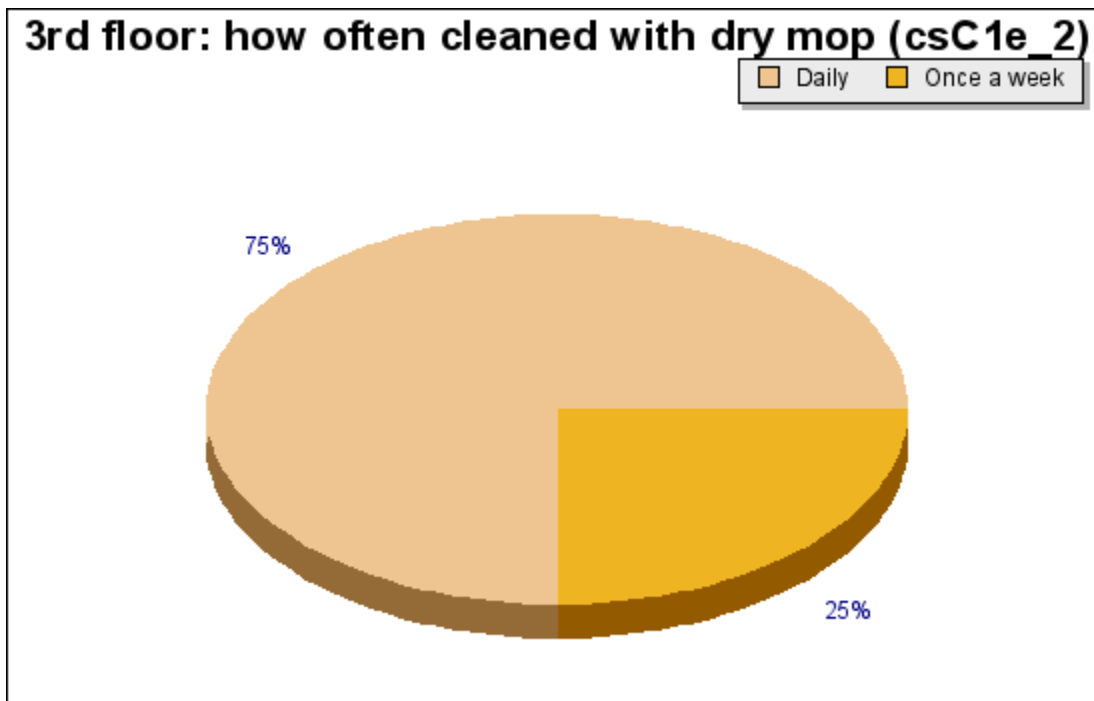
Question csC1d_1: 3rd floor: cleaned with wet mop



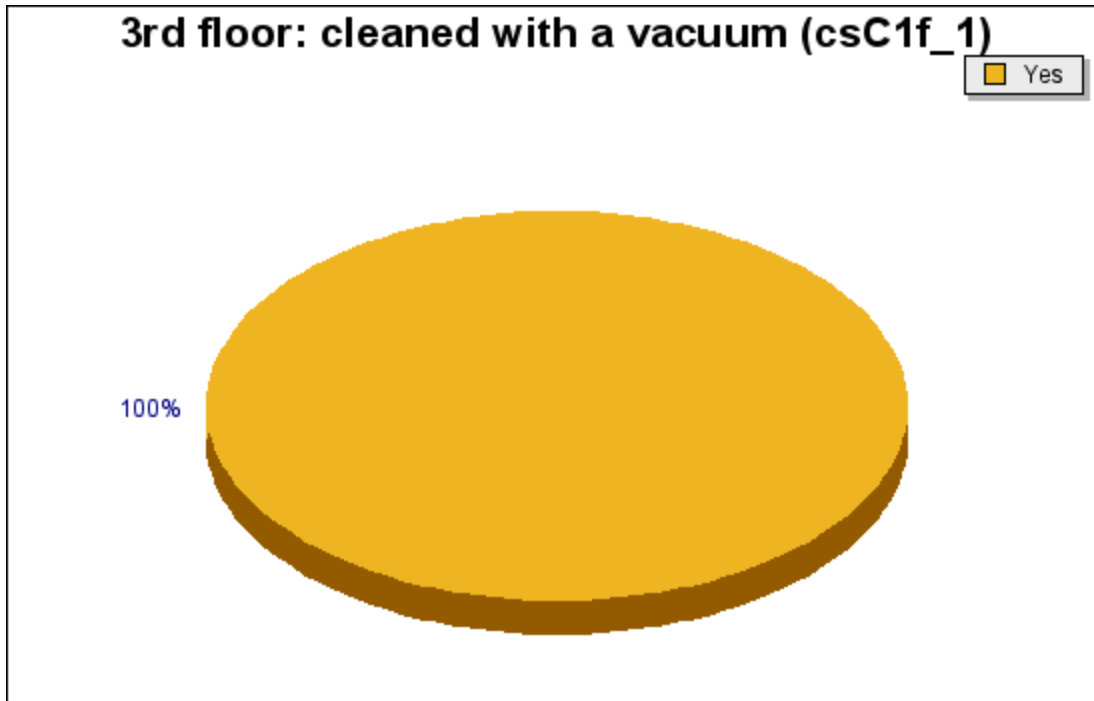
Question csC1d_2: 3rd floor: how often cleaned with wet mop



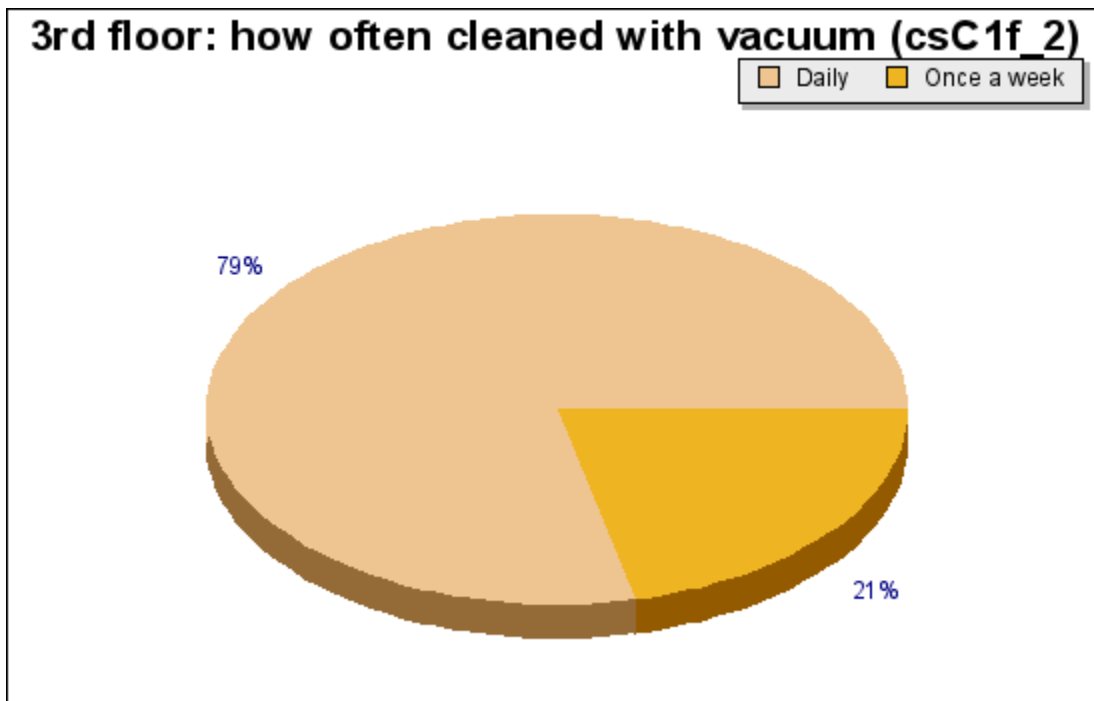
Question csC1e_1: 3rd floor: cleaned with dry mop



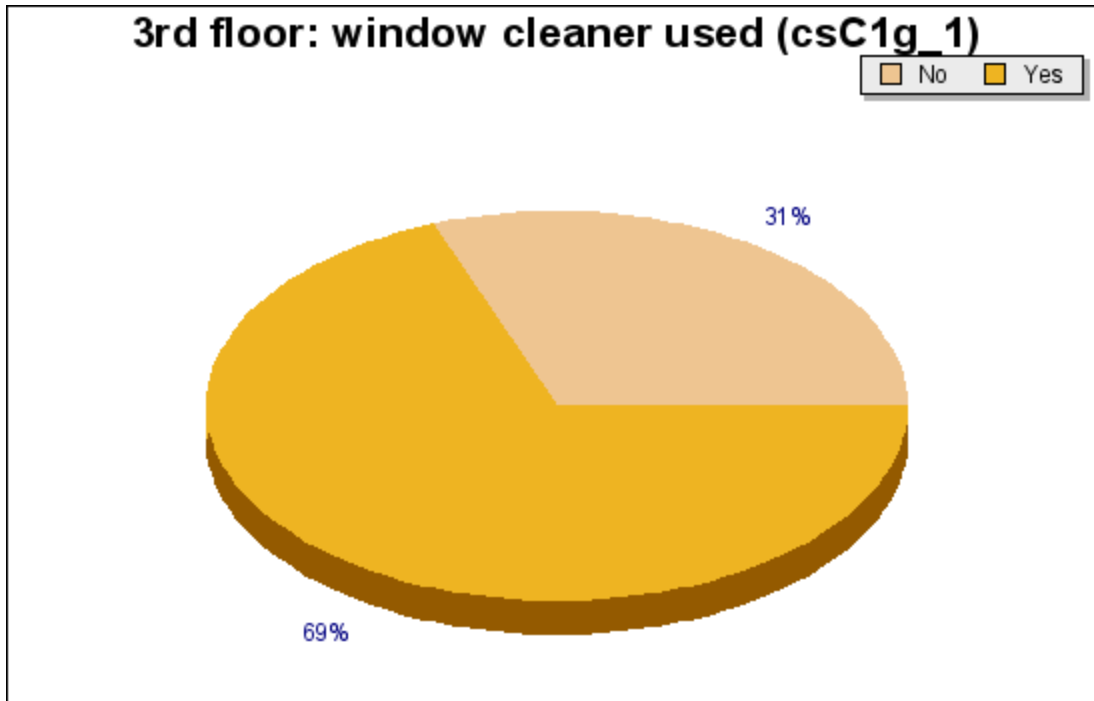
Question csC1e_2: 3rd floor: how often cleaned with dry mop



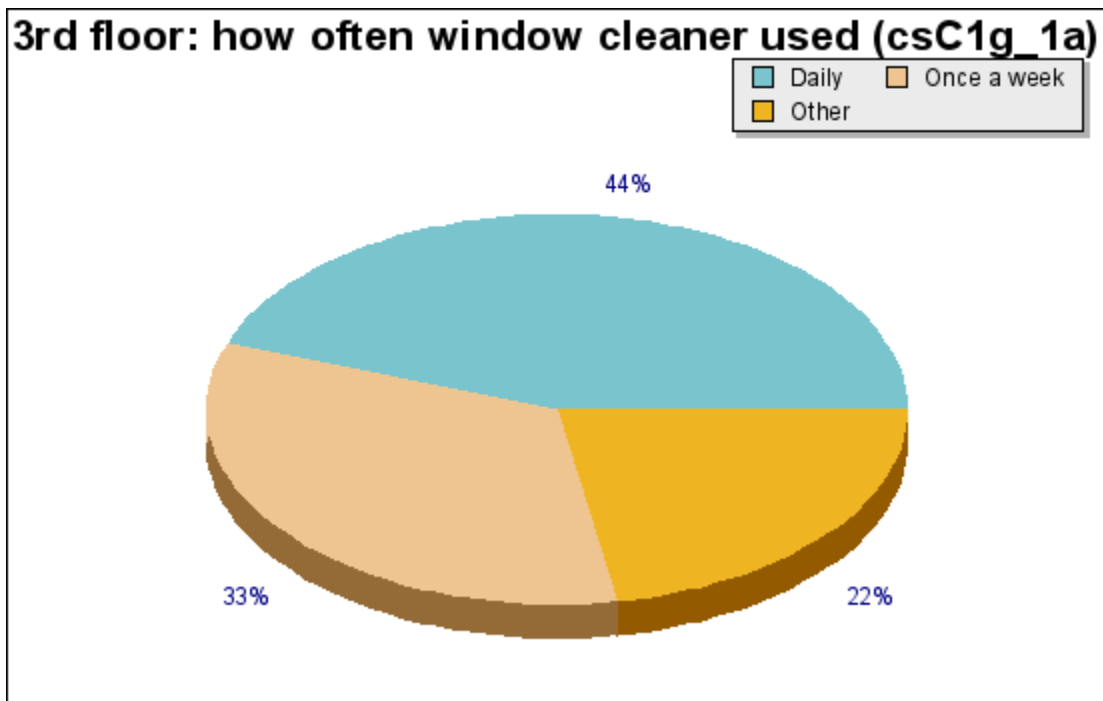
Question csC1f_1: 3rd floor: cleaned with a vacuum



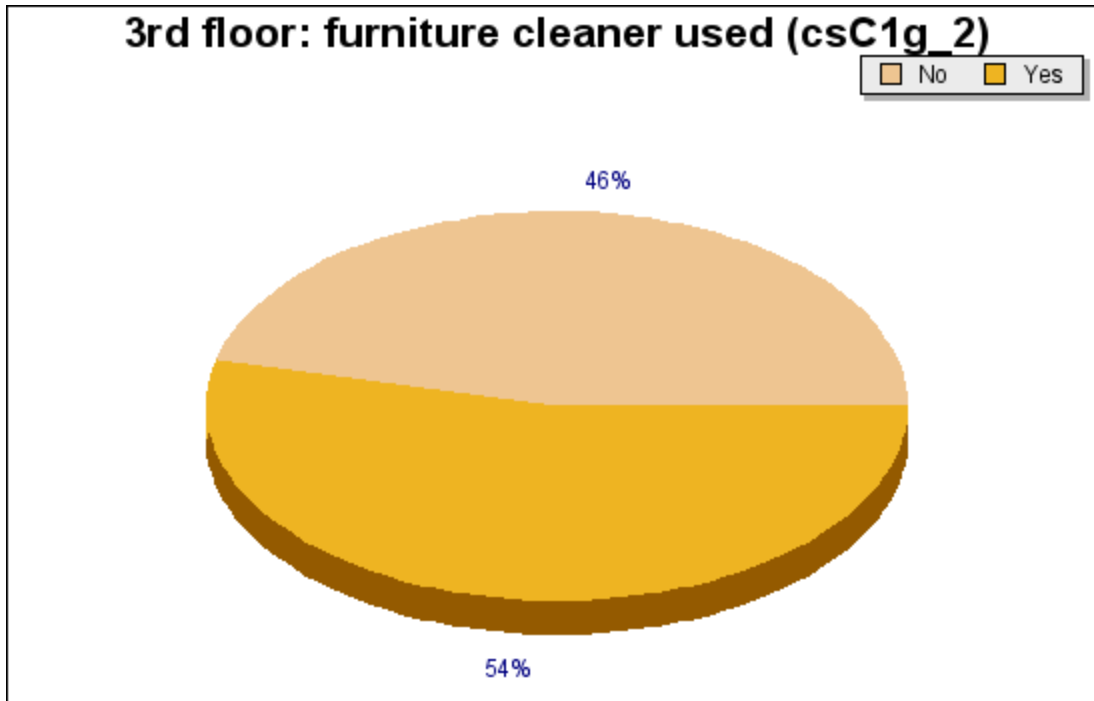
Question csC1f_2: 3rd floor: how often cleaned with vacuum



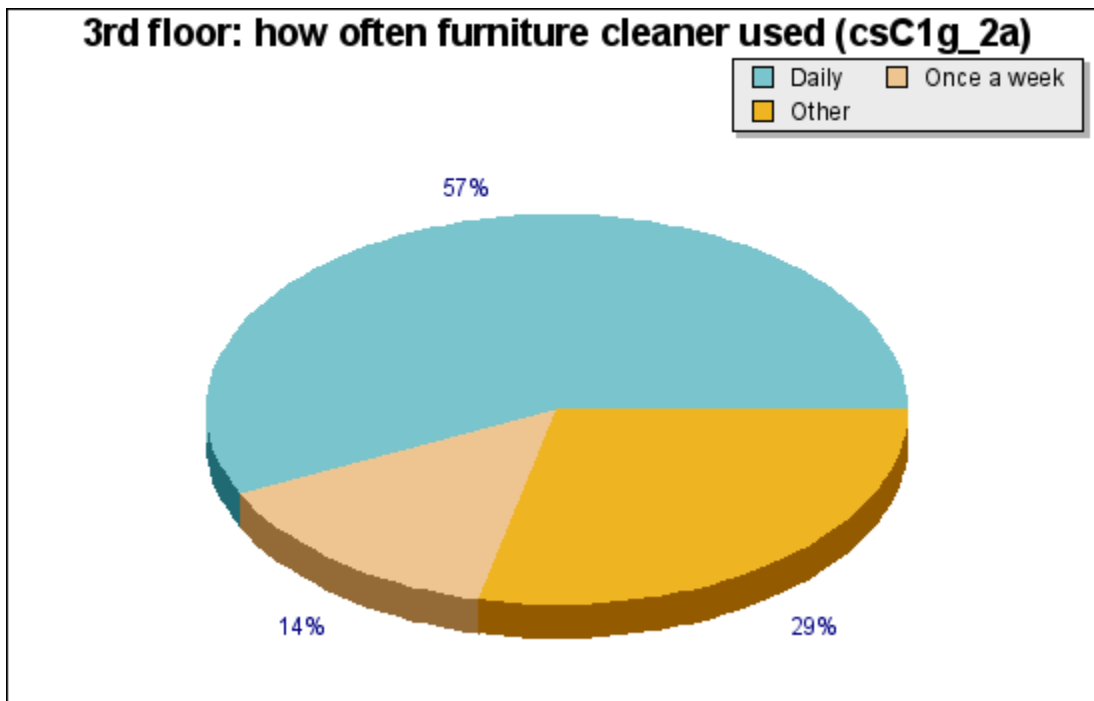
Question csC1g_1: 3rd floor: window cleaner used



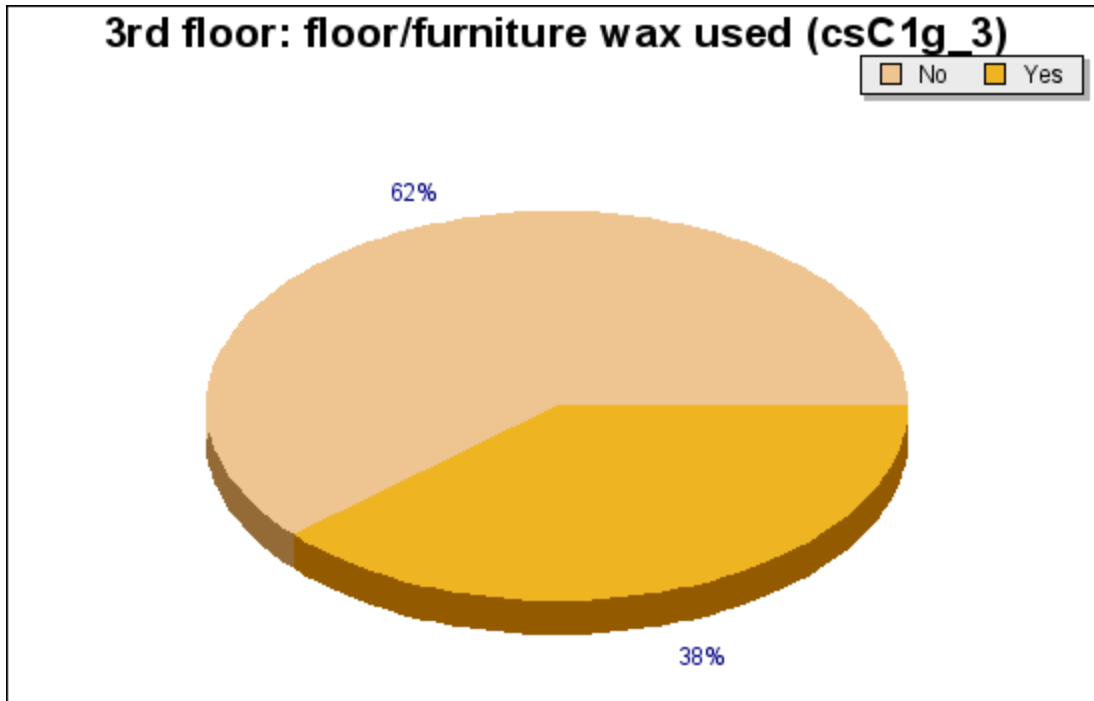
Question csC1g_1a: 3rd floor: how often window cleaner used



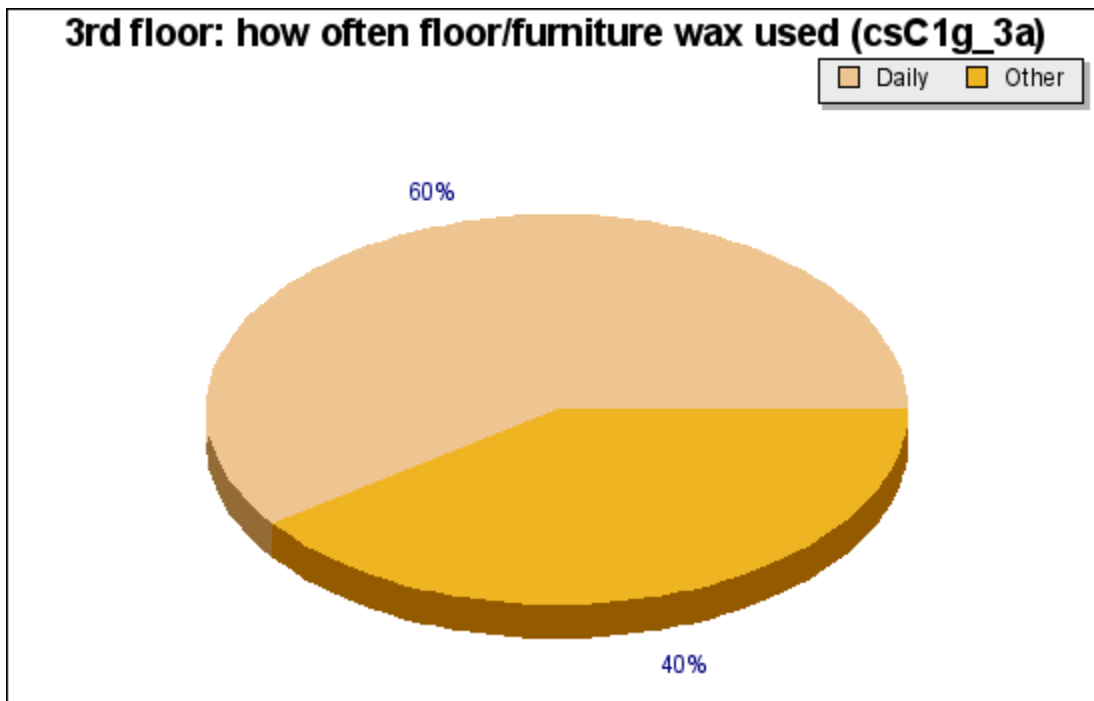
Question csC1g_2: 3rd floor: furniture cleaner used



Question csC1g_2a: 3rd floor: how often furniture cleaner used



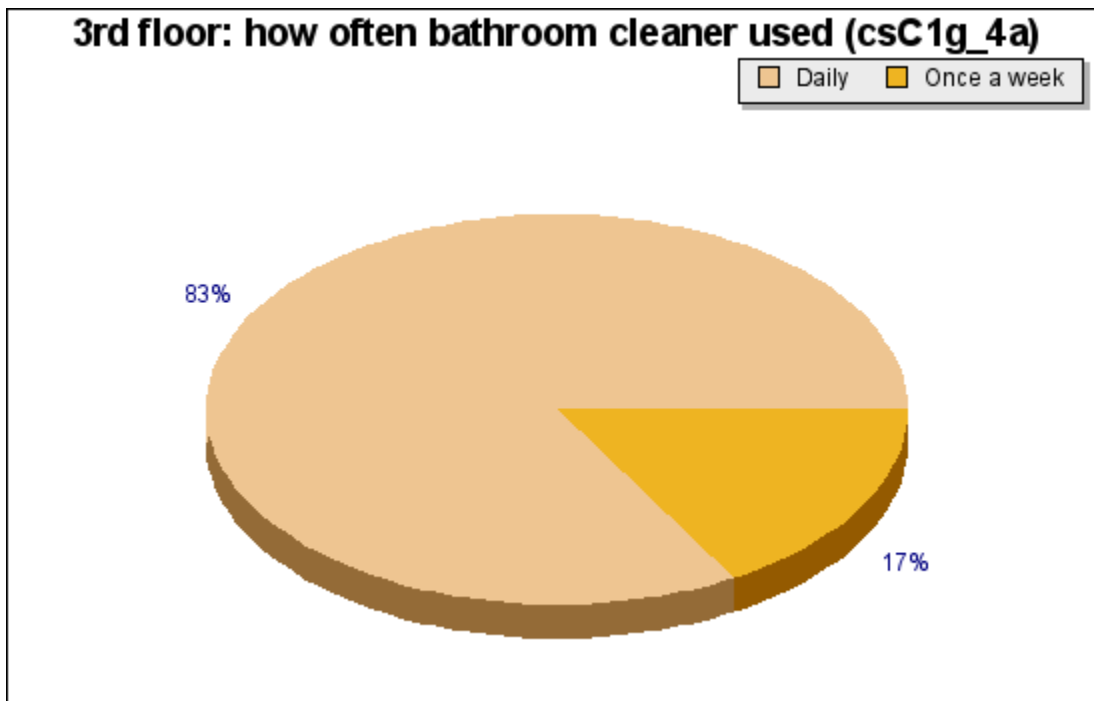
Question csC1g_3: 3rd floor: floor/furniture wax used



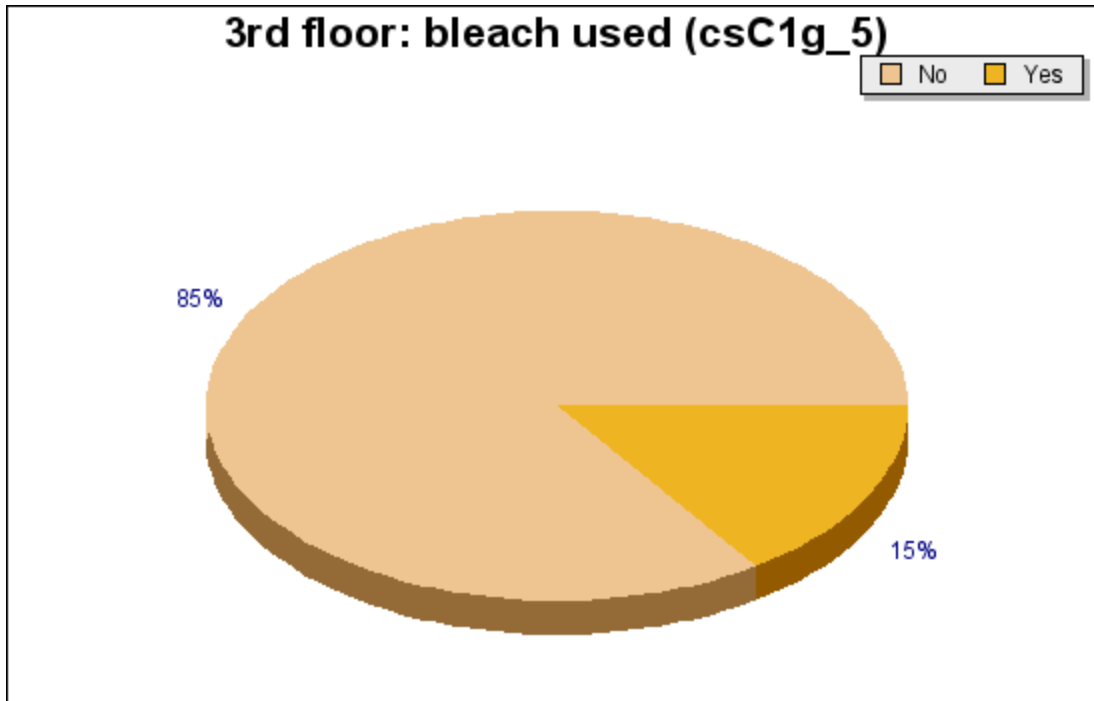
Question csC1g_3a: 3rd floor: how often floor/furniture wax used



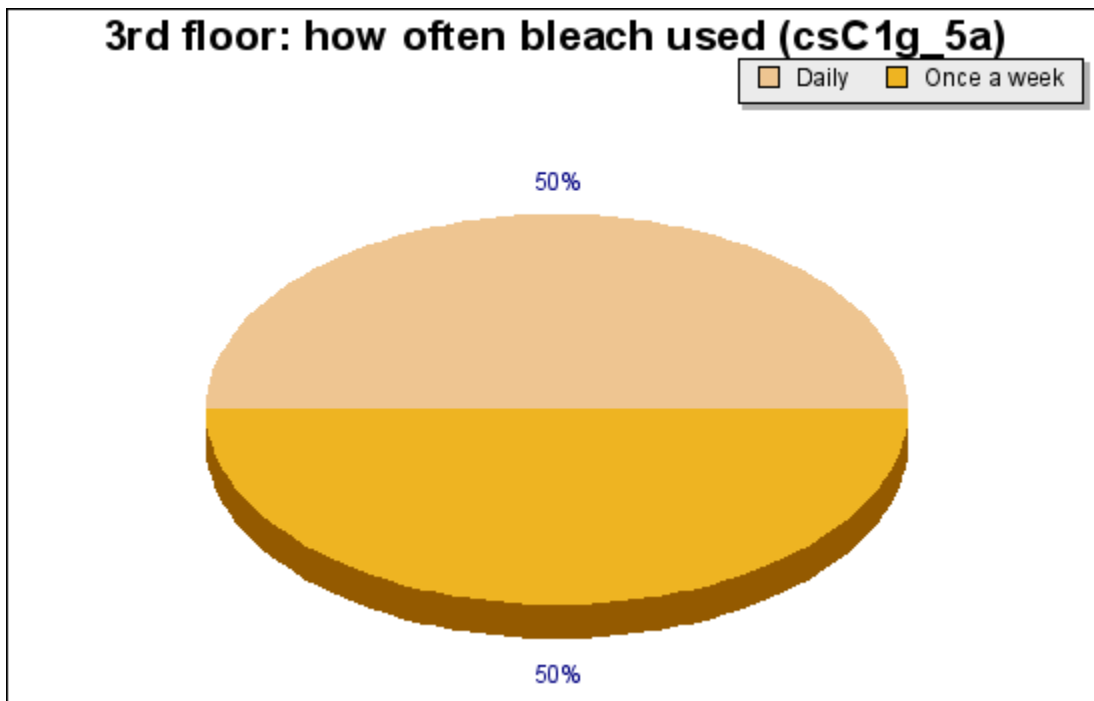
Question csC1g_4: 3rd floor: bathroom cleaner used



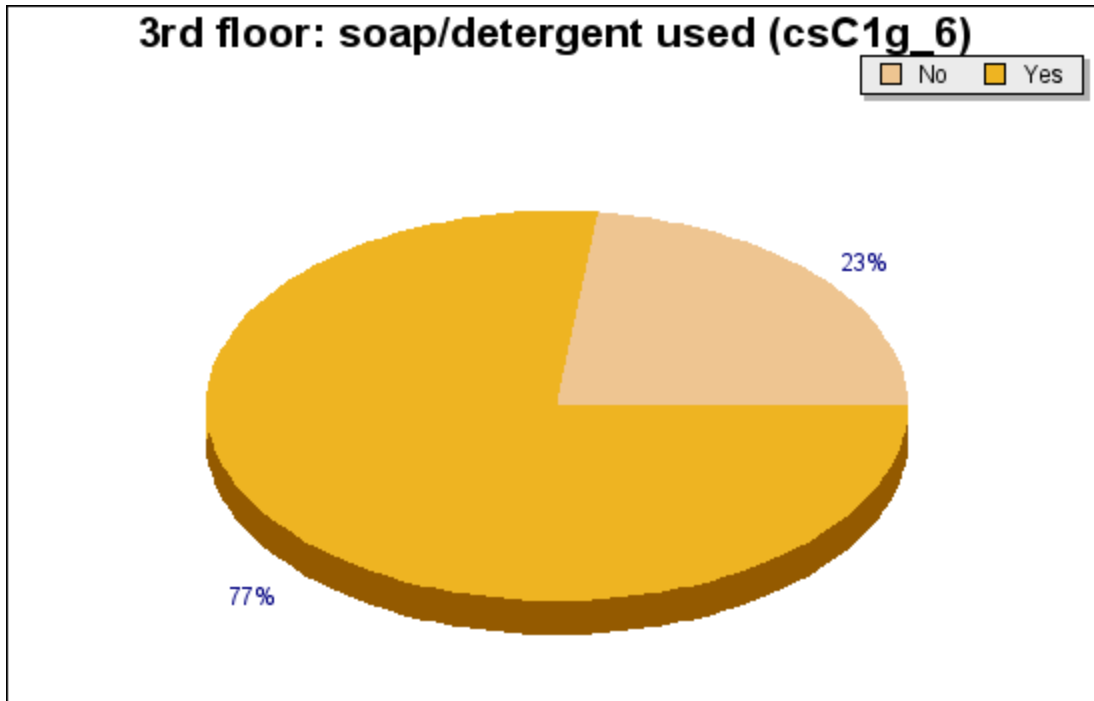
Question csC1g_4a: 3rd floor: how often bathroom cleaner used



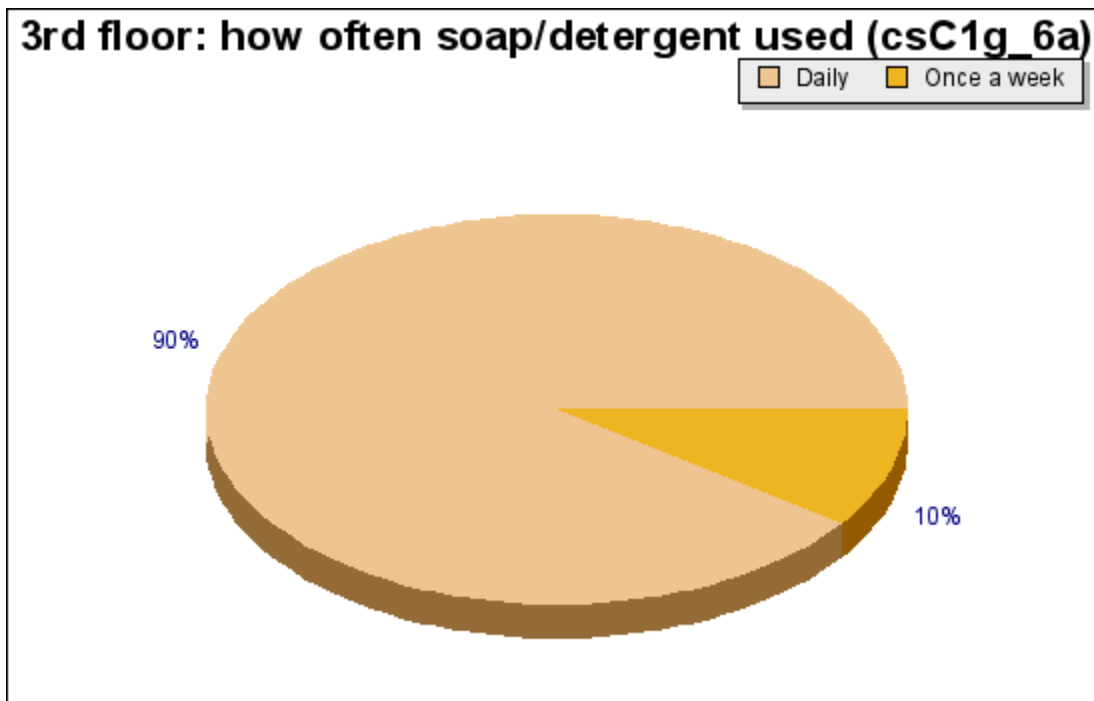
Question csC1g_5: 3rd floor: bleach used



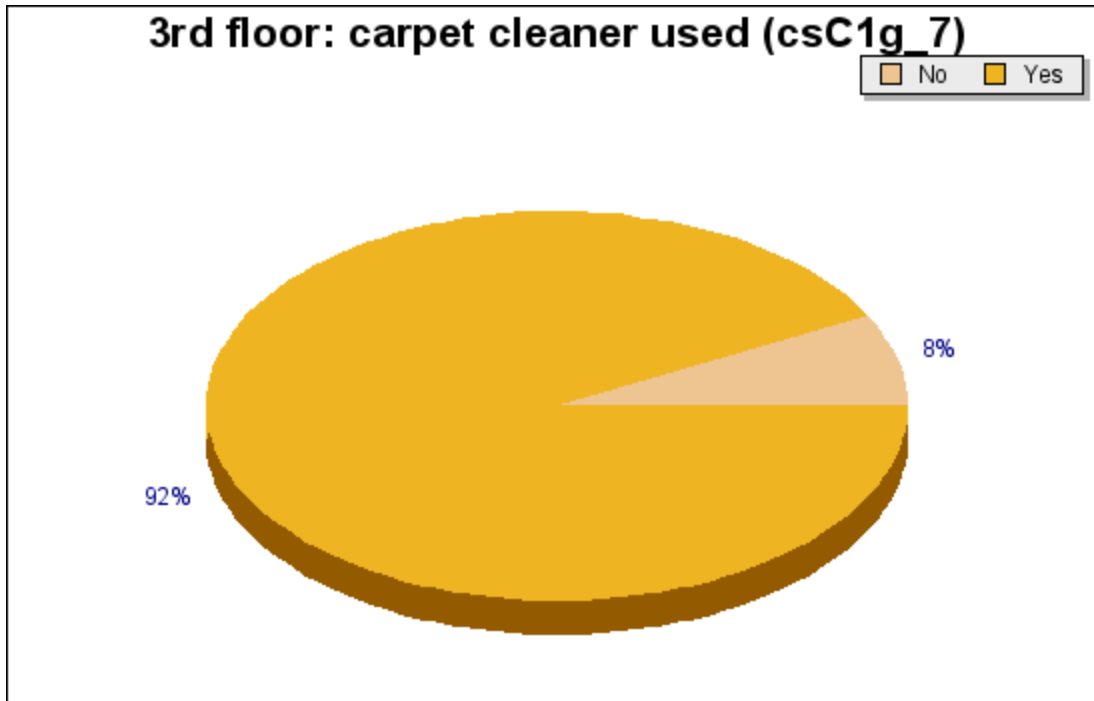
Question csC1g_5a: 3rd floor: how often bleach used



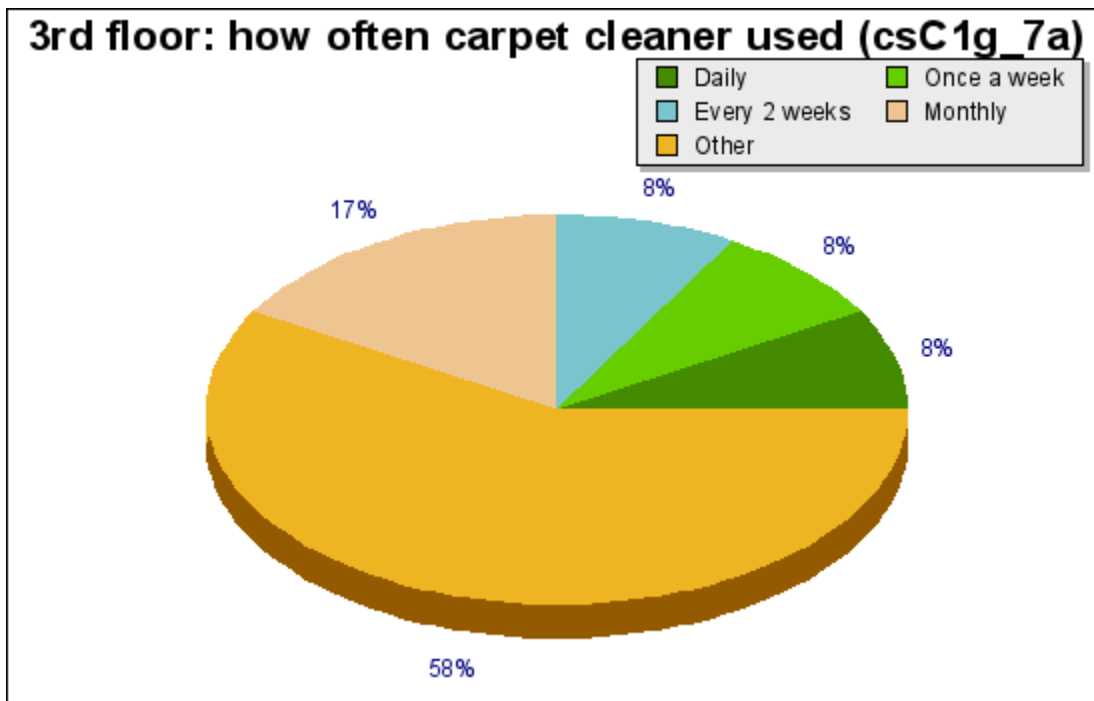
Question csC1g_6: 3rd floor: soap/detergent used



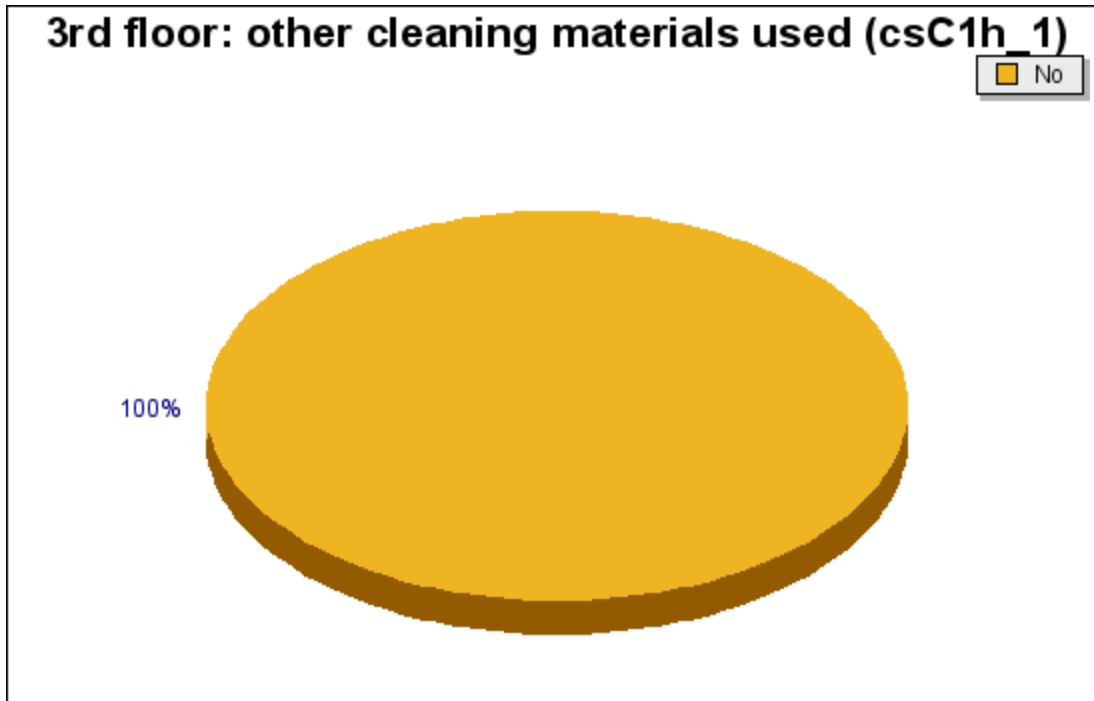
Question csC1g_6a: 3rd floor: how often soap/detergent used



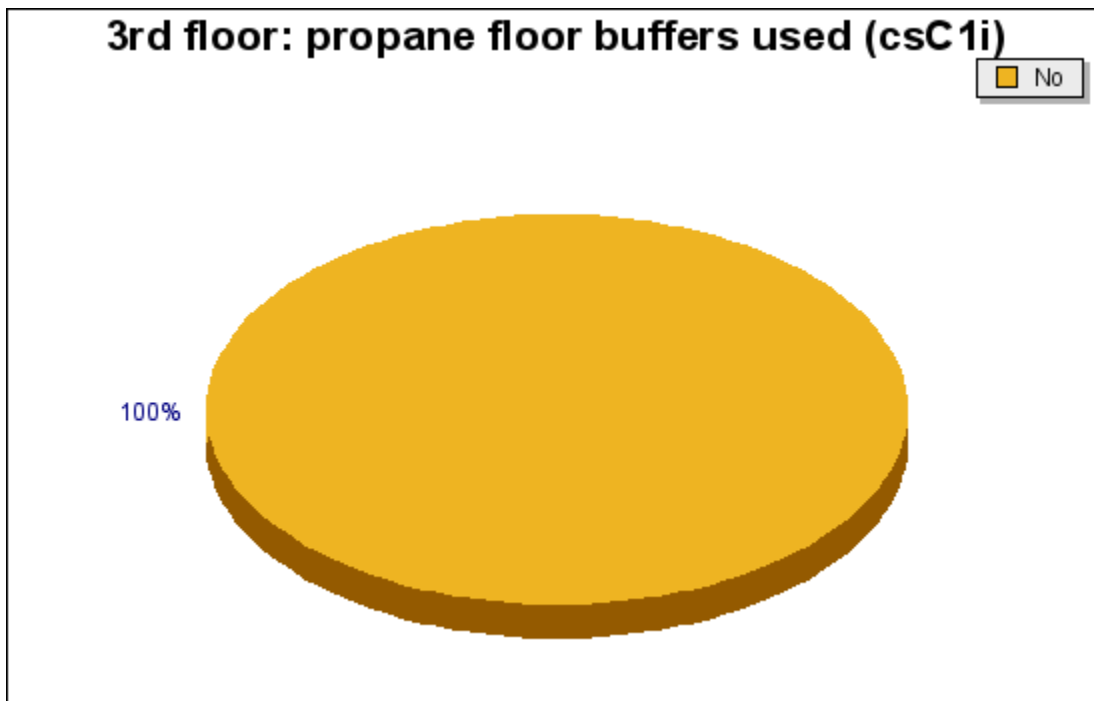
Question csC1g_7: 3rd floor: carpet cleaner used



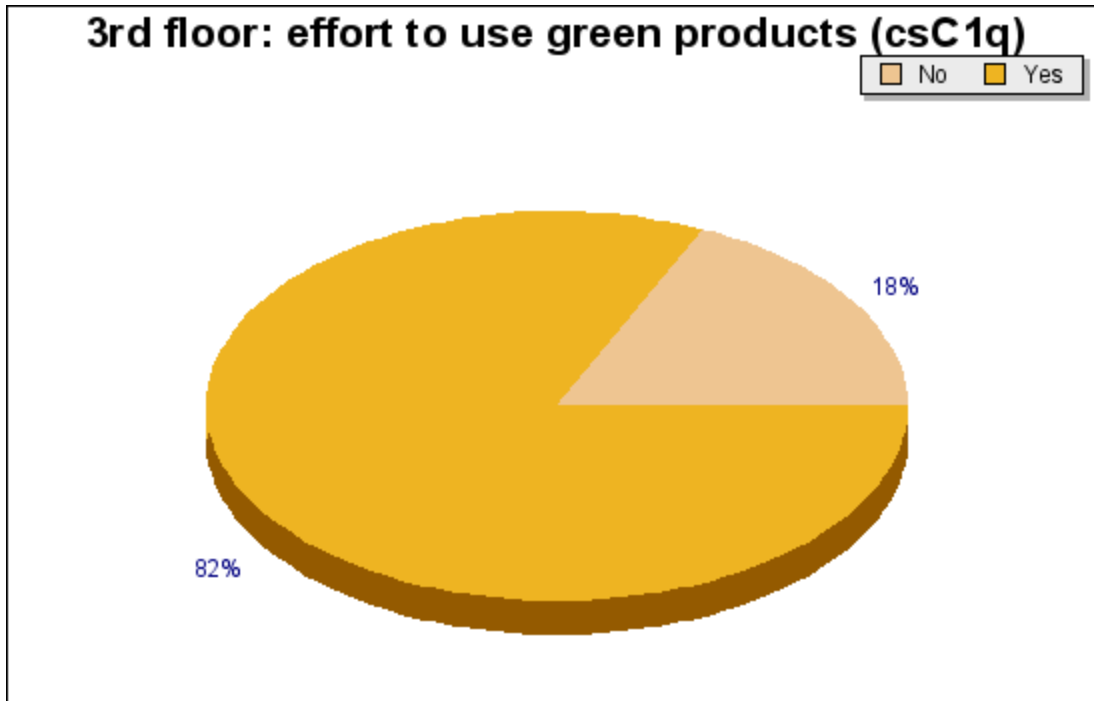
Question csC1g_7a: 3rd floor: how often carpet cleaner used



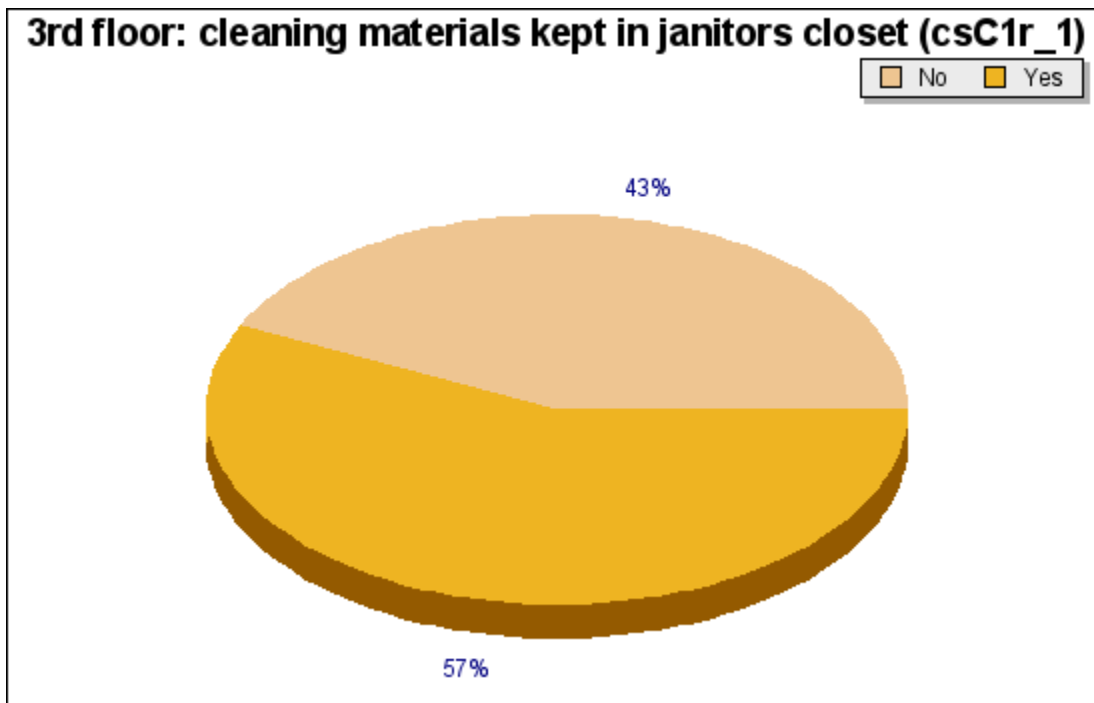
Question csC1h_1: 3rd floor: other cleaning materials used



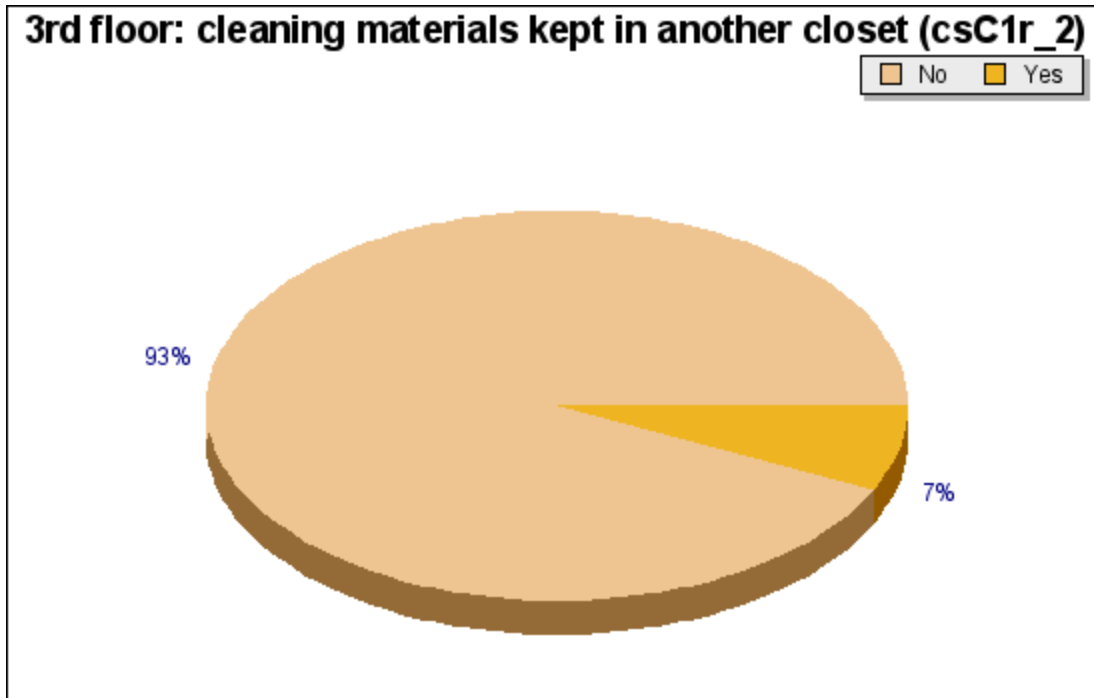
Question csC1i: 3rd floor: propane floor buffers used



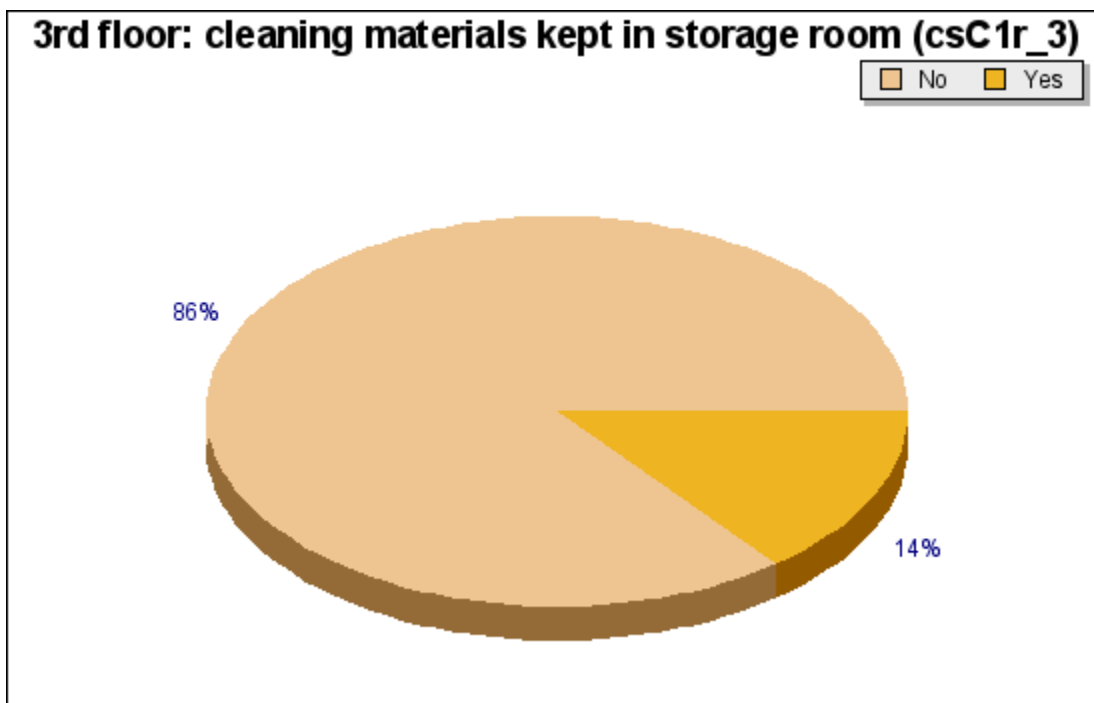
Question csC1q: 3rd floor: effort to use green products



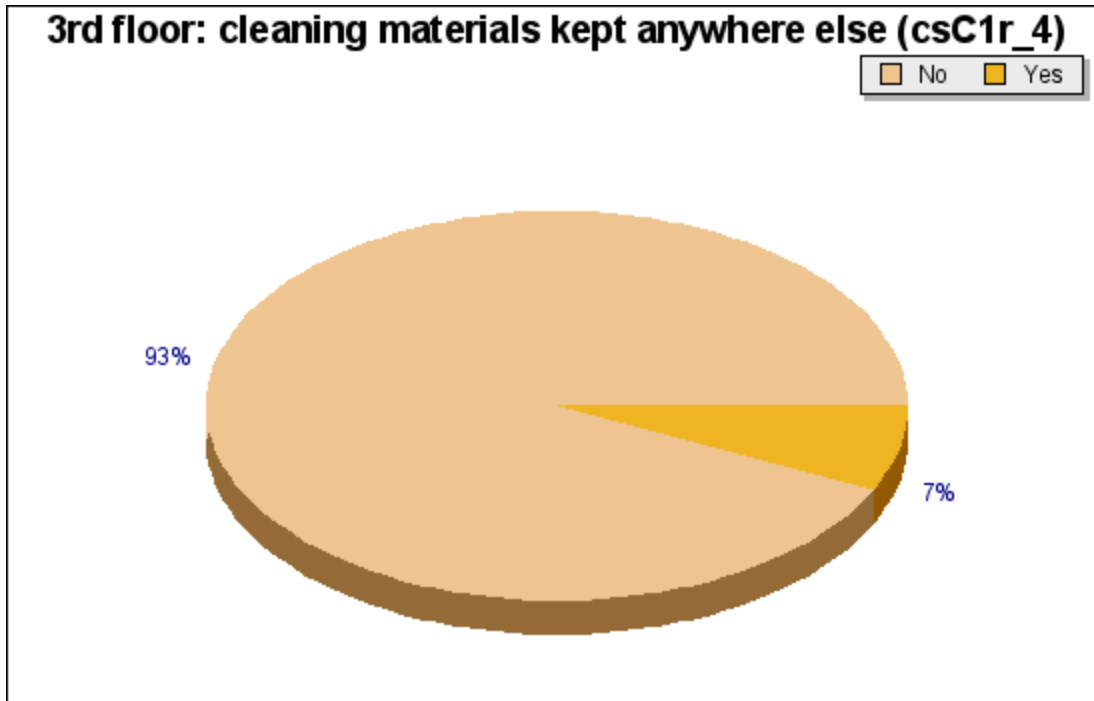
Question csC1r_1: 3rd floor: cleaning materials kept in janitors closet



Question csC1r_2: 3rd floor: cleaning materials kept in another closet

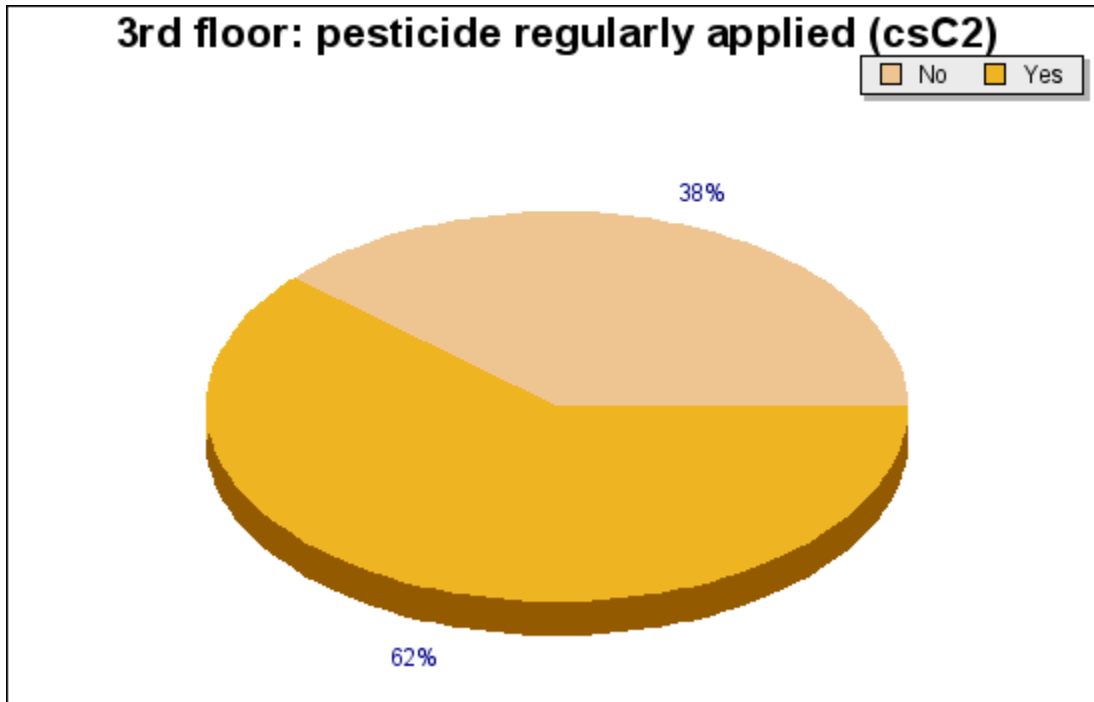


Question csC1r_3: 3rd floor: cleaning materials kept in storage room

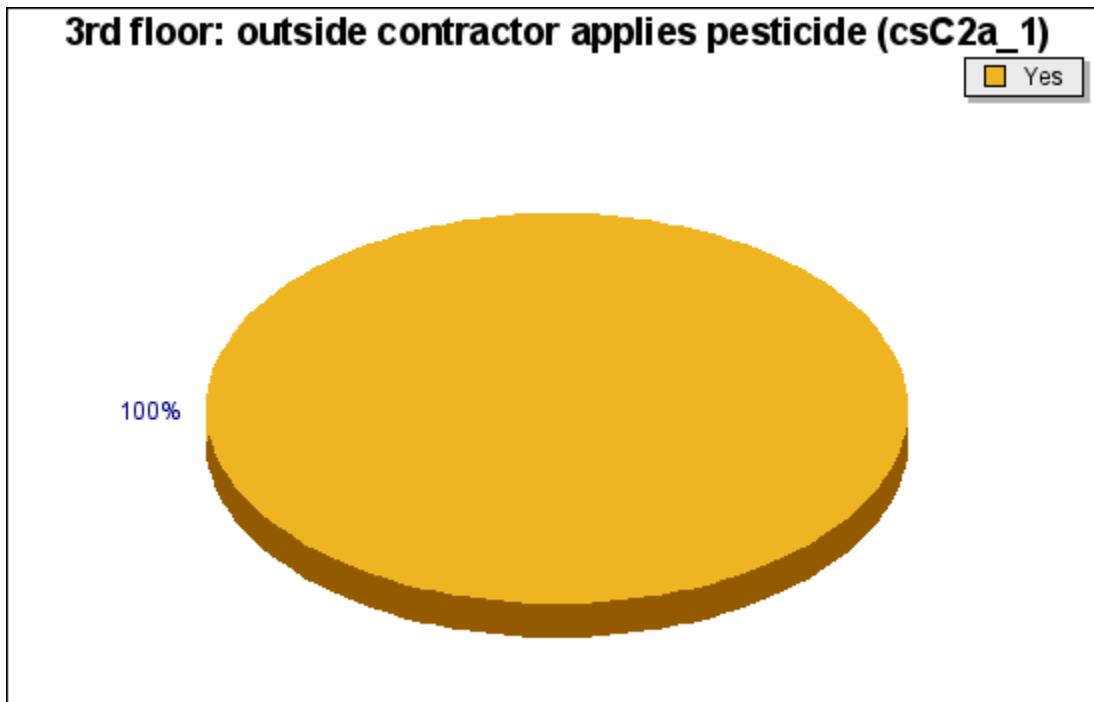


Question csC1r_4: 3rd floor: cleaning materials kept anywhere else

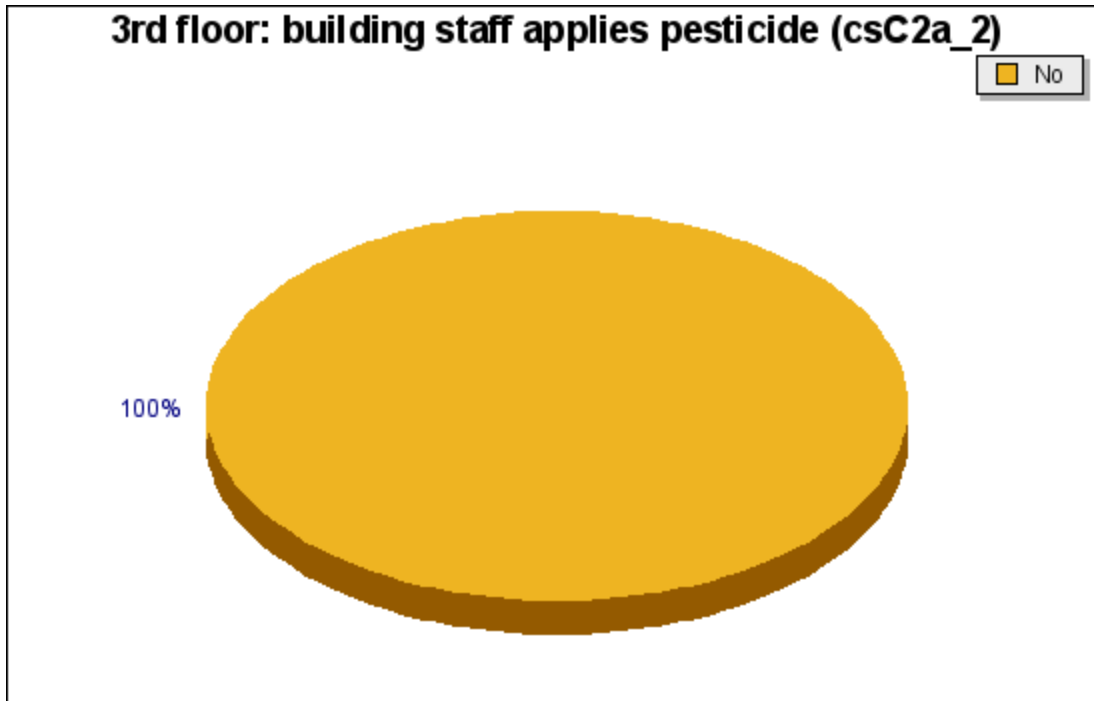
Regular Interior/exterior Pesticide: 3rd Floor



Question csC2: 3rd floor: pesticide regularly applied



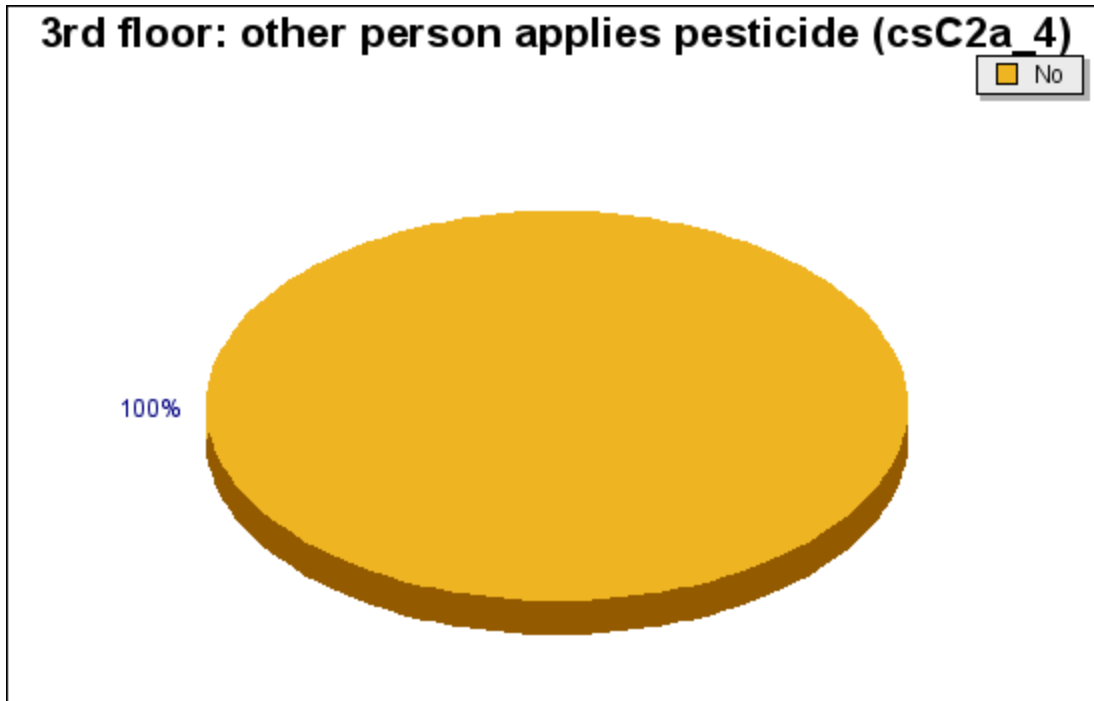
Question csC2a_1: 3rd floor: outside contractor applies pesticide



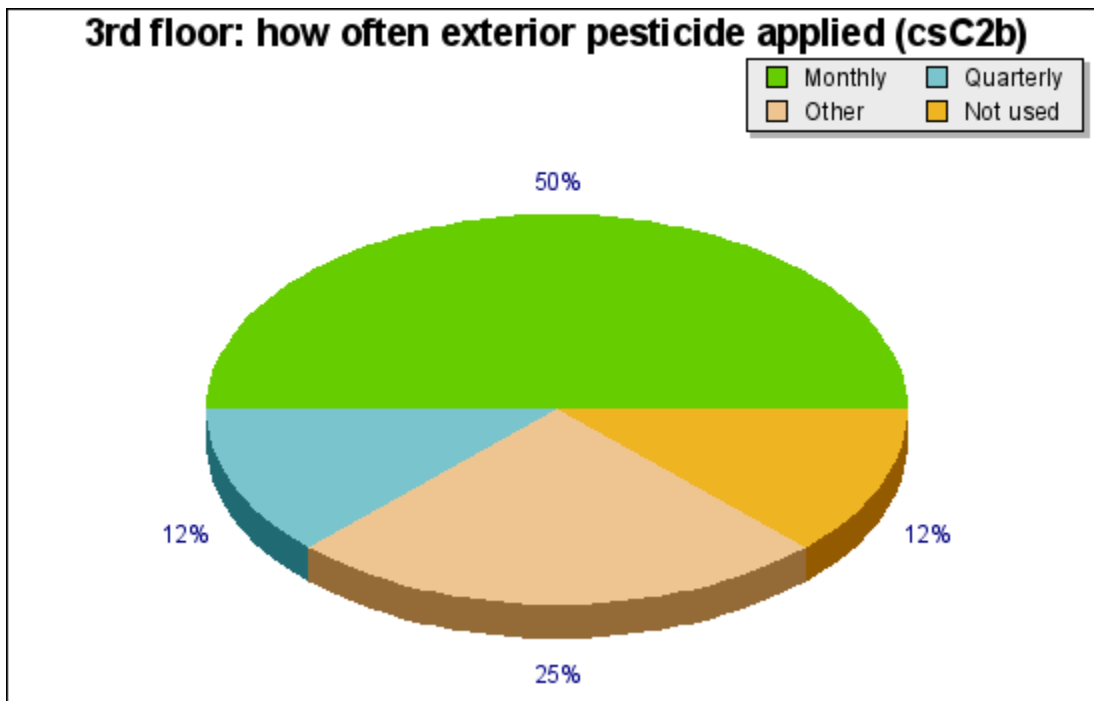
Question csC2a_2: 3rd floor: building staff applies pesticide



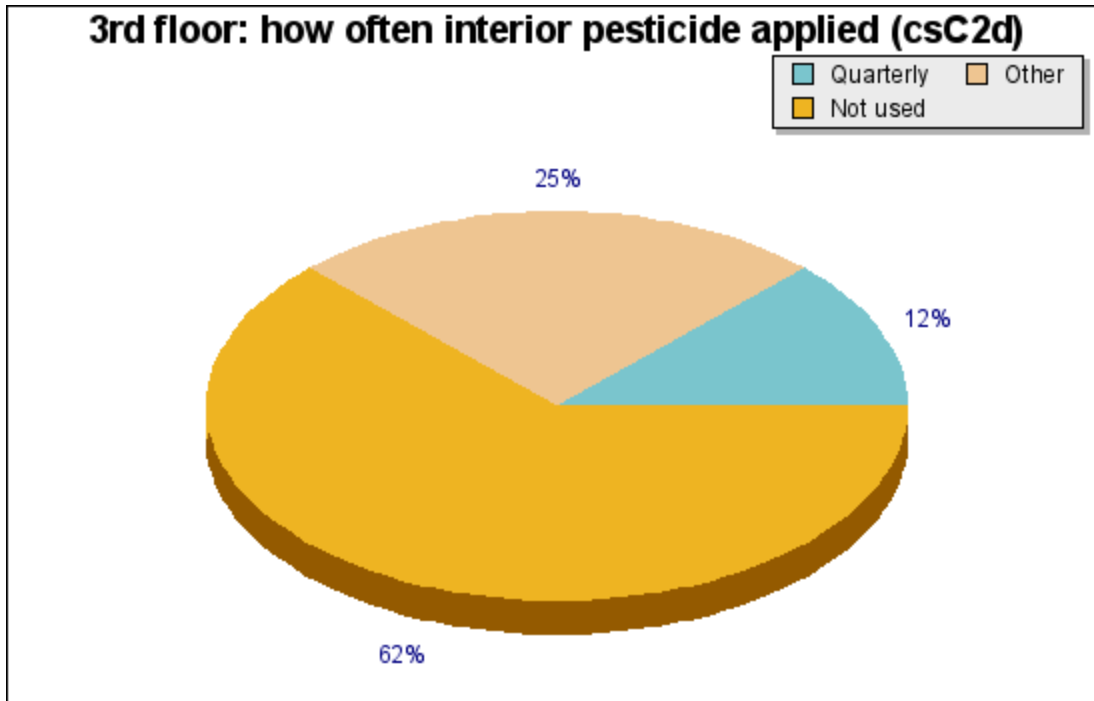
Question csC2a_3: 3rd floor: outside employees apply pesticide



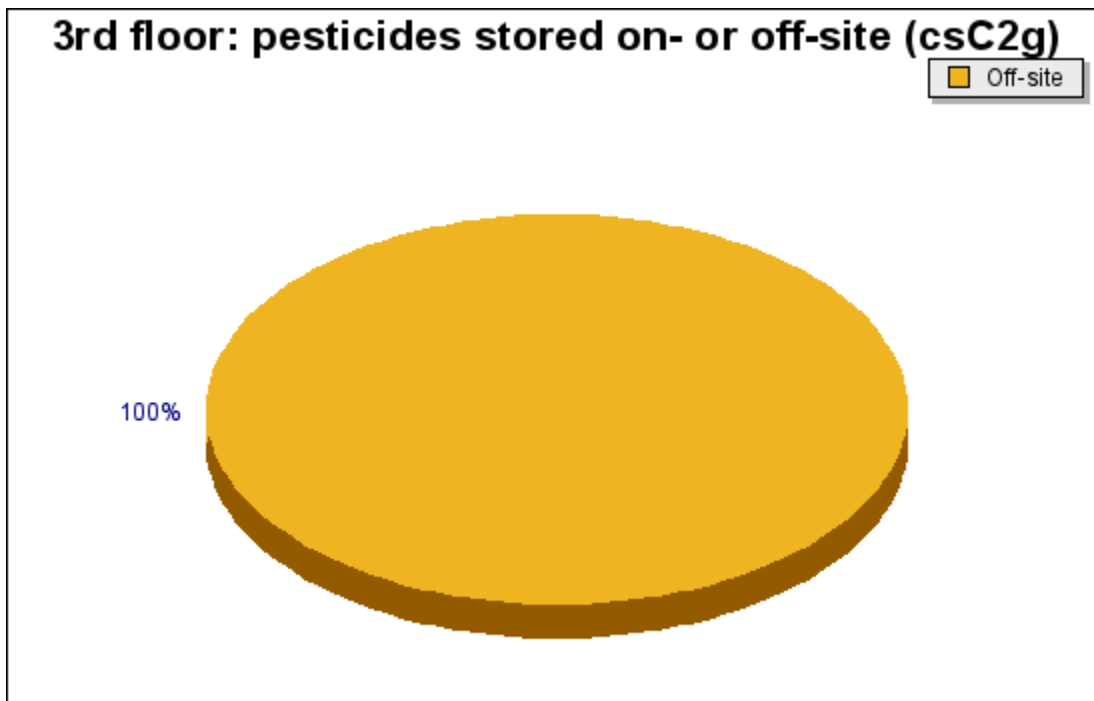
Question csC2a_4: 3rd floor: other person applies pesticide



Question csC2b: 3rd floor: how often exterior pesticide applied

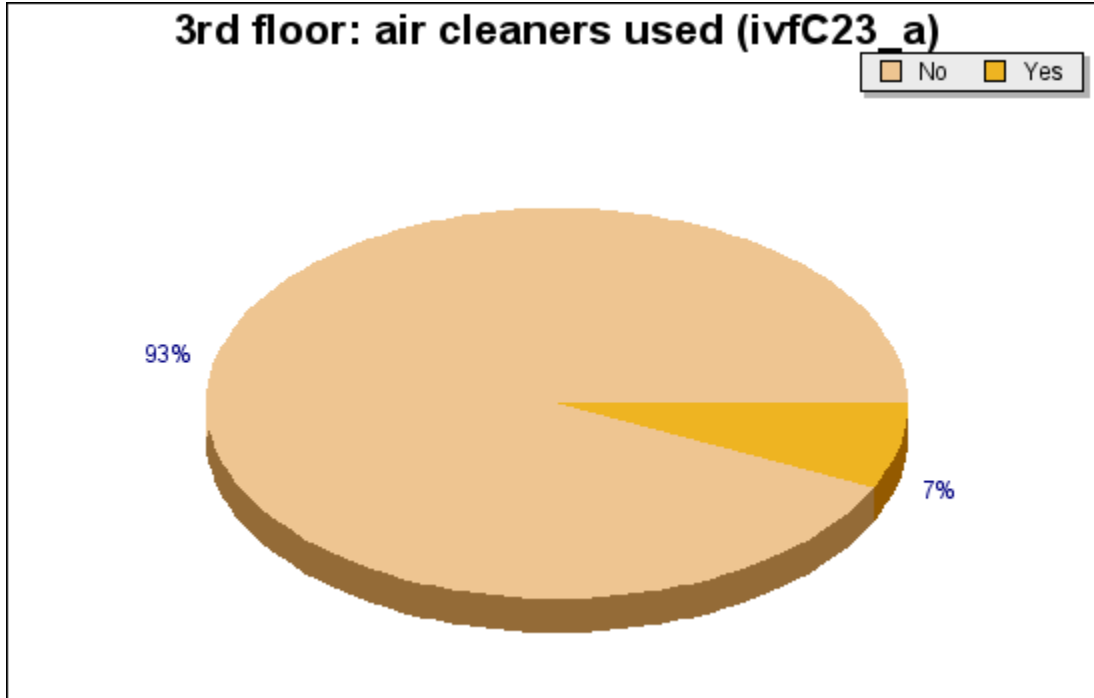


Question csC2d: 3rd floor: how often interior pesticide applied

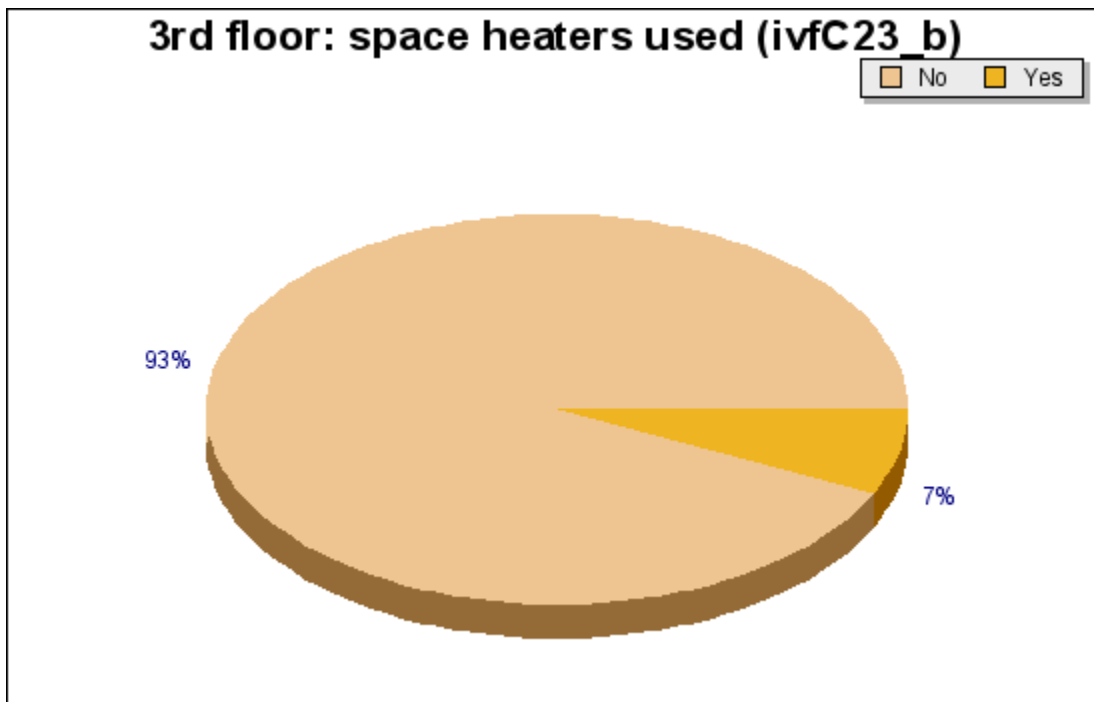


Question csC2g: 3rd floor: pesticides stored on- or off-site

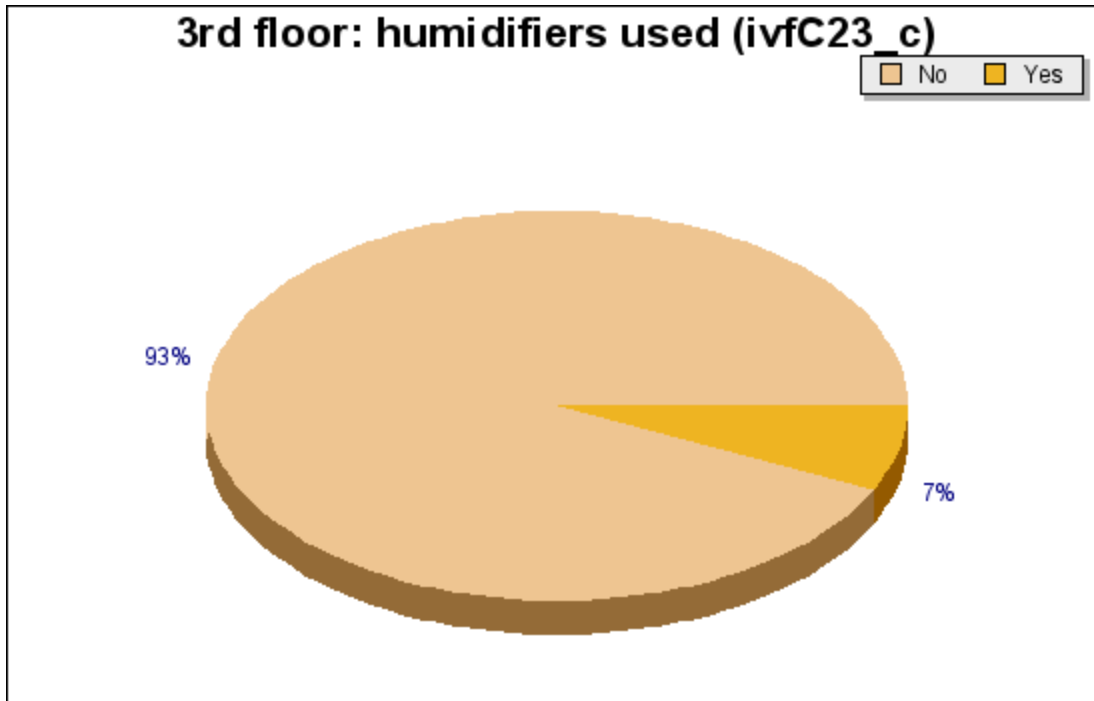
Indoor Ventilation Fixtures: 3rd Floor



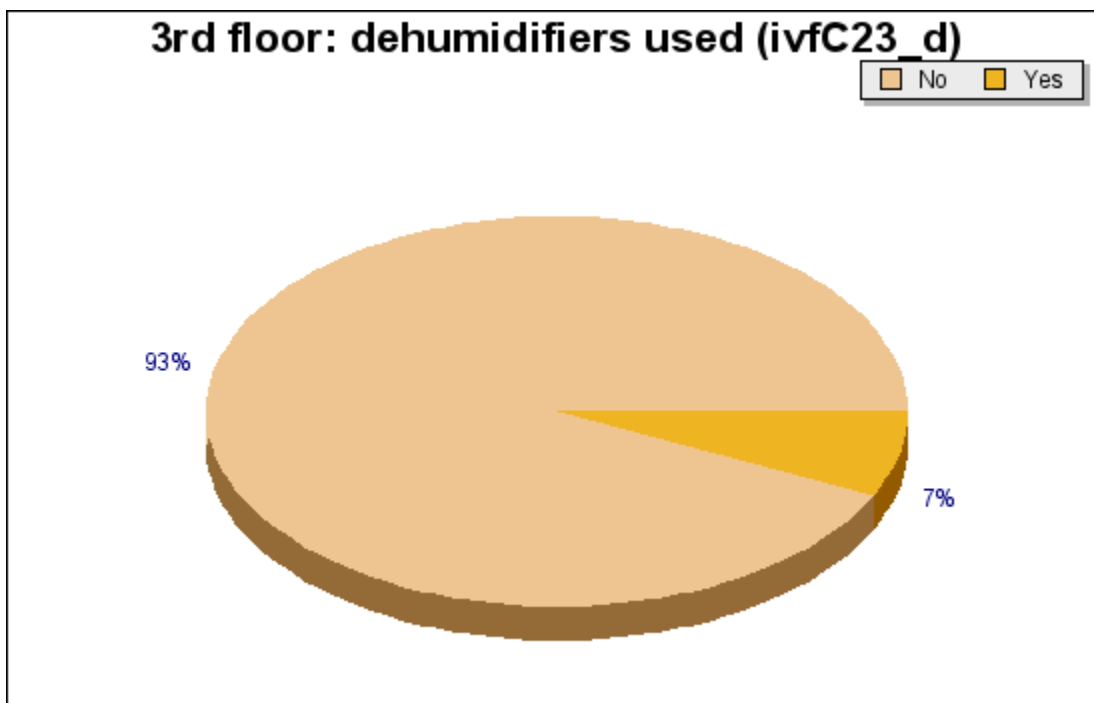
Question ivfC23_a: 3rd floor: air cleaners used



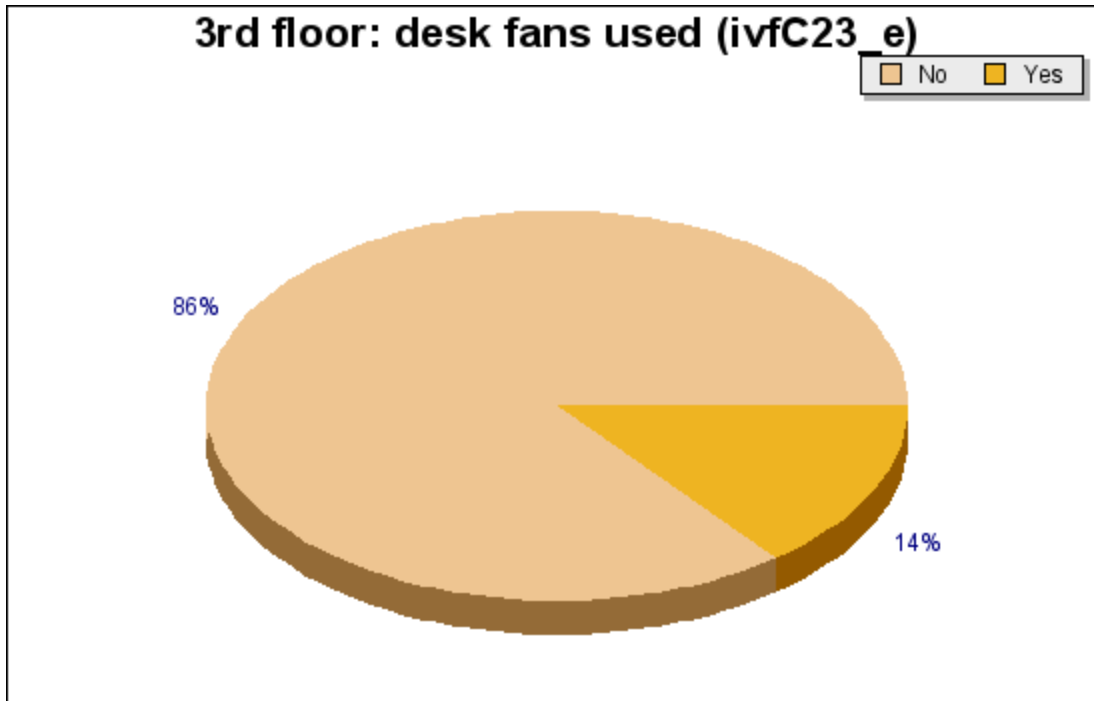
Question ivfC23_b: 3rd floor: space heaters used



Question ivfC23_c: 3rd floor: humidifiers used



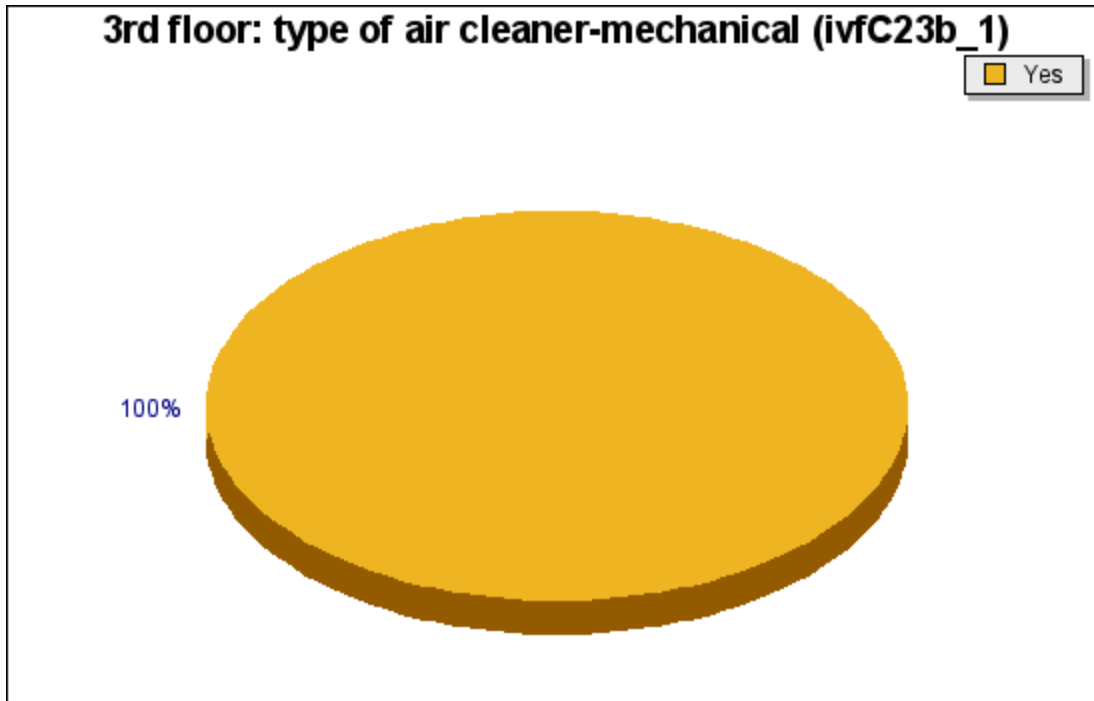
Question ivfC23_d: 3rd floor: dehumidifiers used



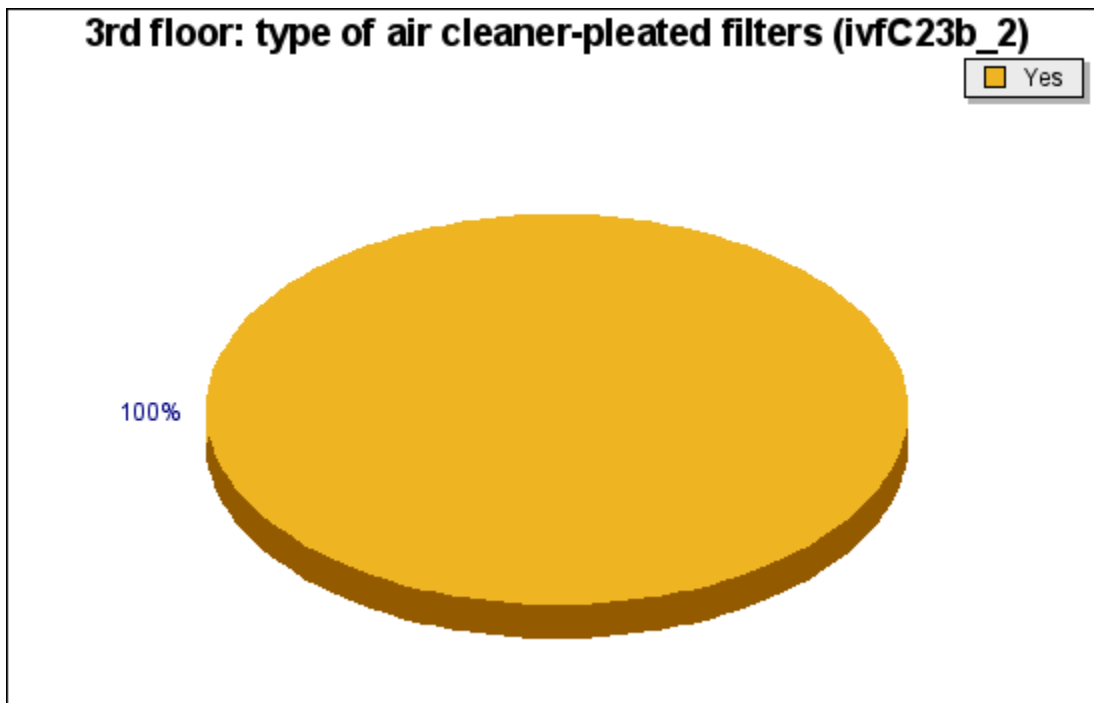
Question ivfC23_e: 3rd floor: desk fans used



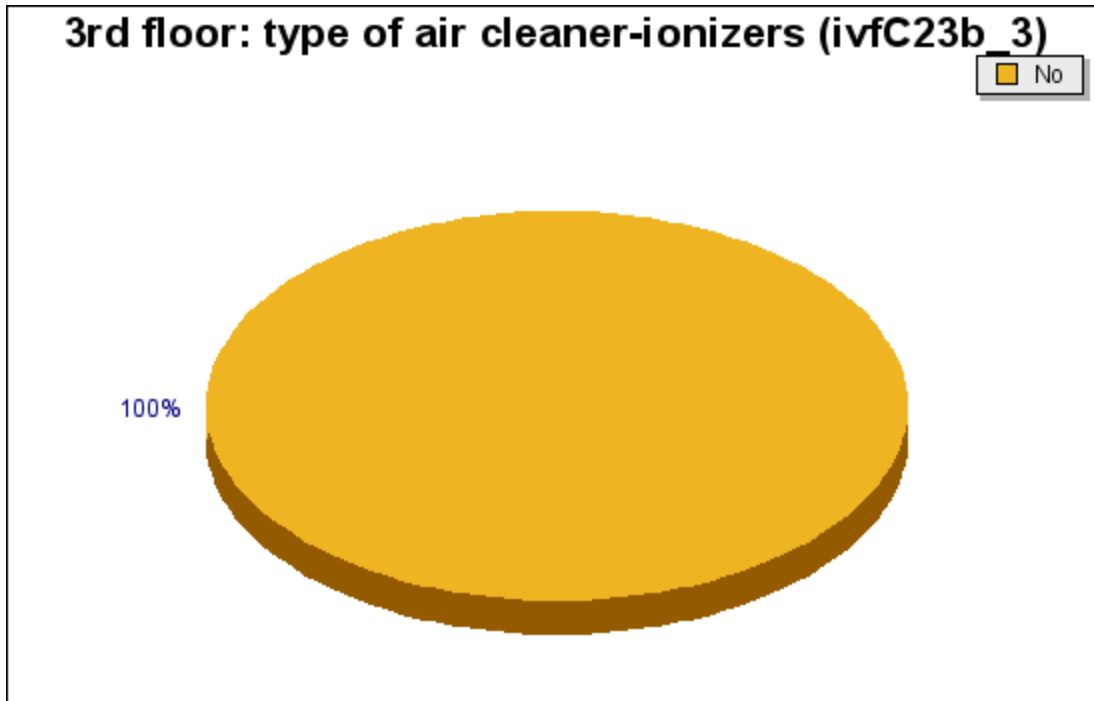
Question ivfC23a: 3rd floor: number of air cleaners



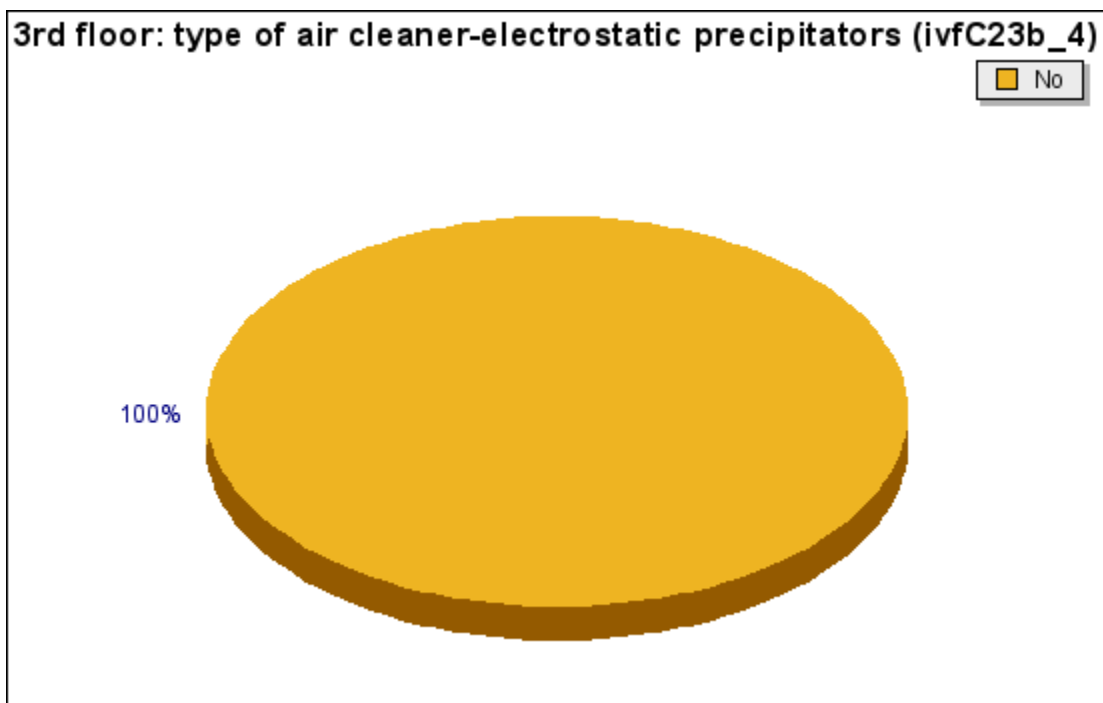
Question ivfC23b_1: 3rd floor: type of air cleaner-mechanical



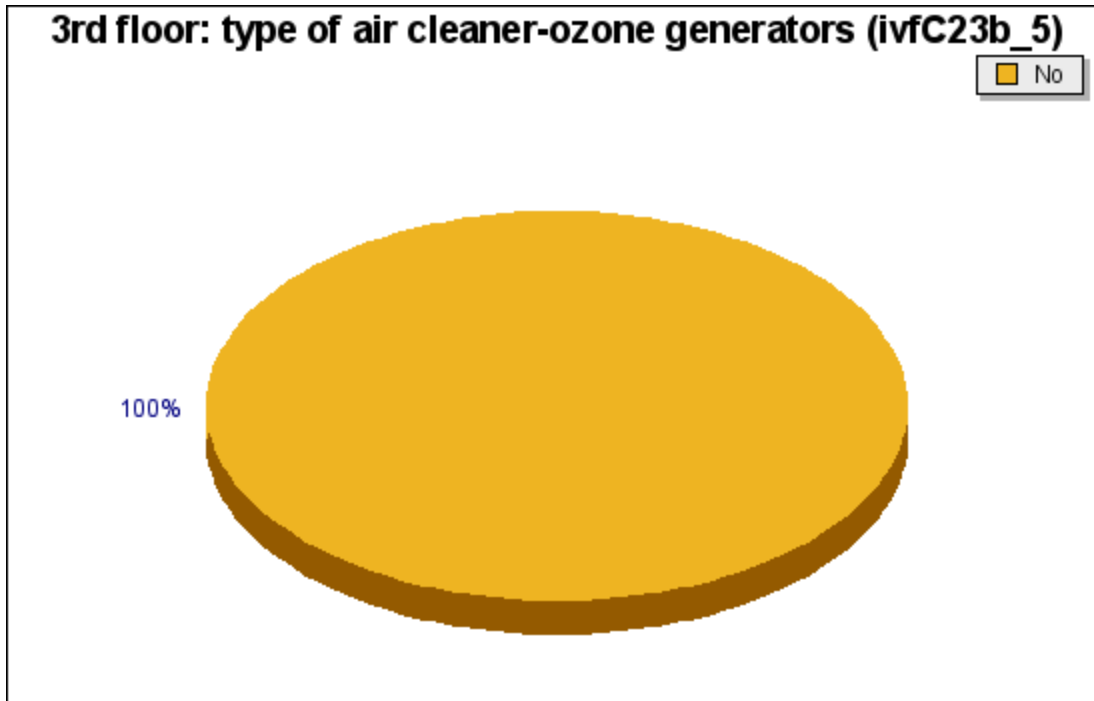
Question ivfC23b_2: 3rd floor: type of air cleaner-pleated filters



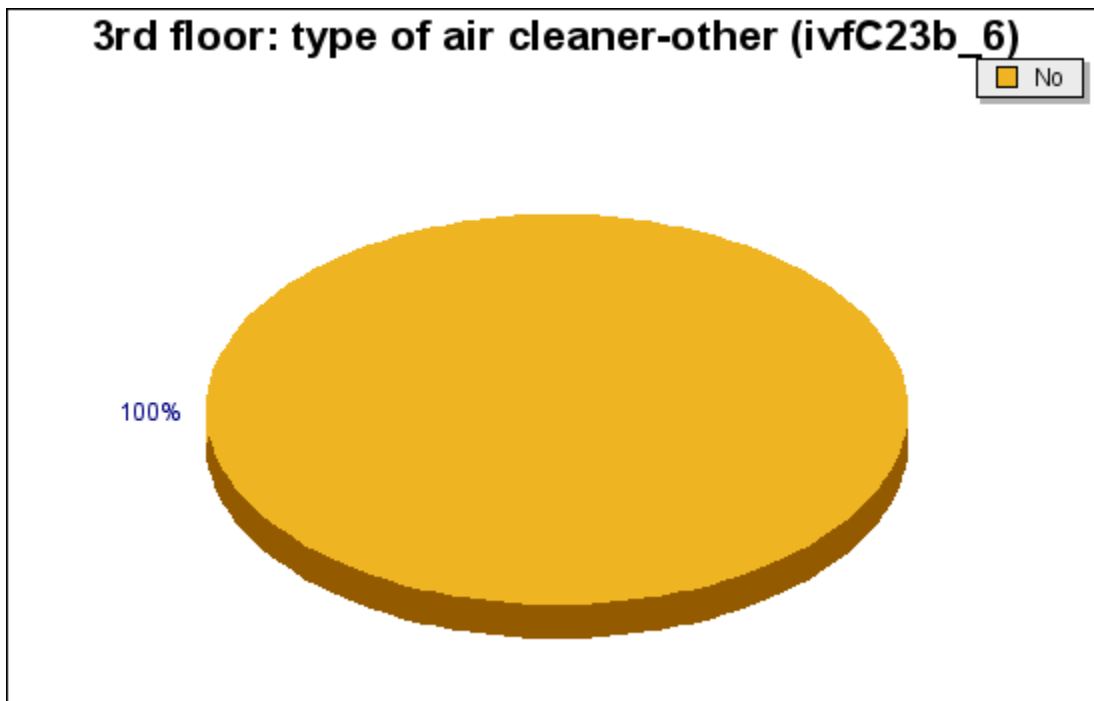
Question ivfC23b_3: 3rd floor: type of air cleaner-ionizers



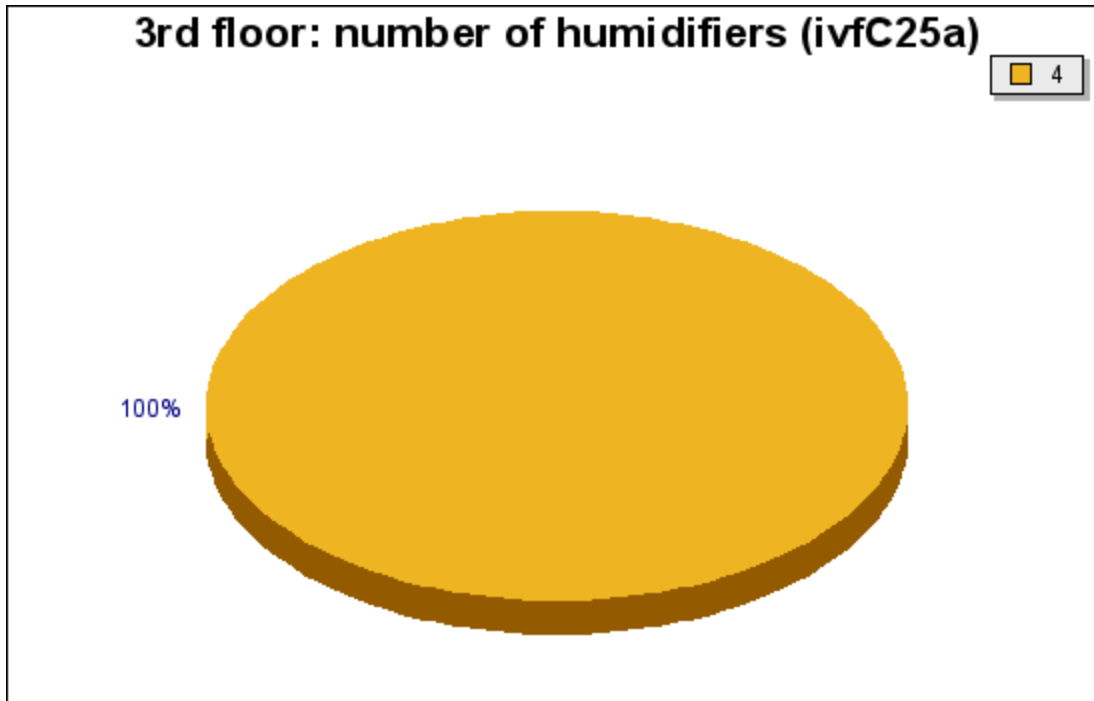
Question ivfC23b_4: 3rd floor: type of air cleaner-electrostatic precipitators



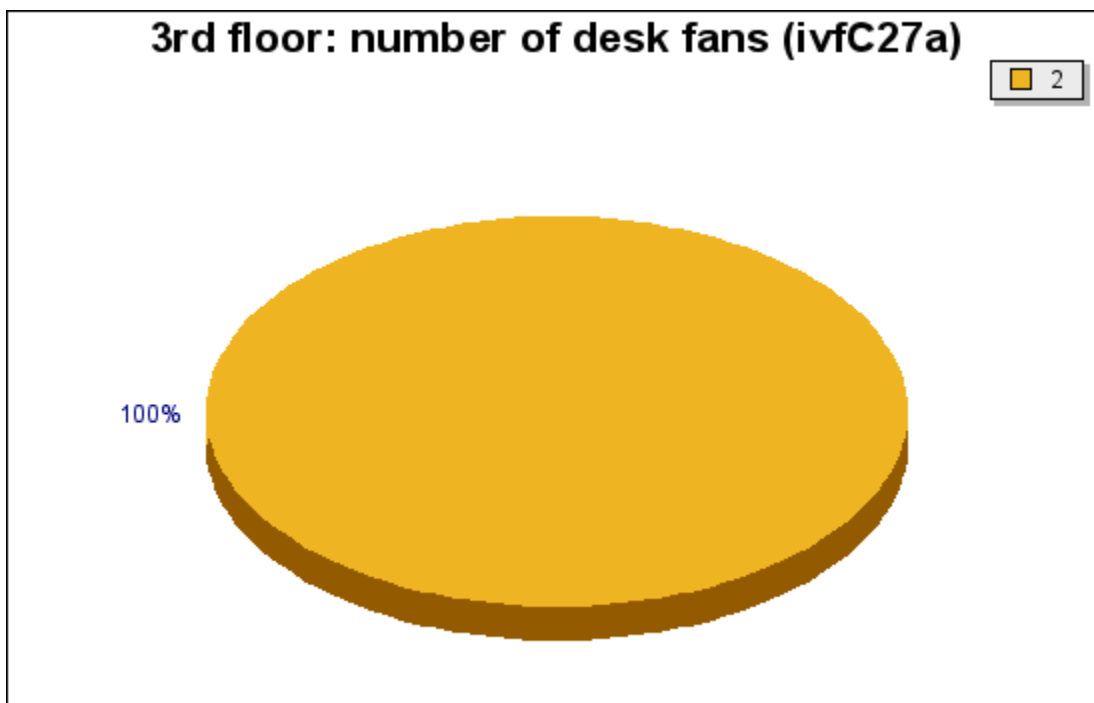
Question ivfC23b_5: 3rd floor: type of air cleaner-ozone generators



Question ivfC23b_6: 3rd floor: type of air cleaner-other

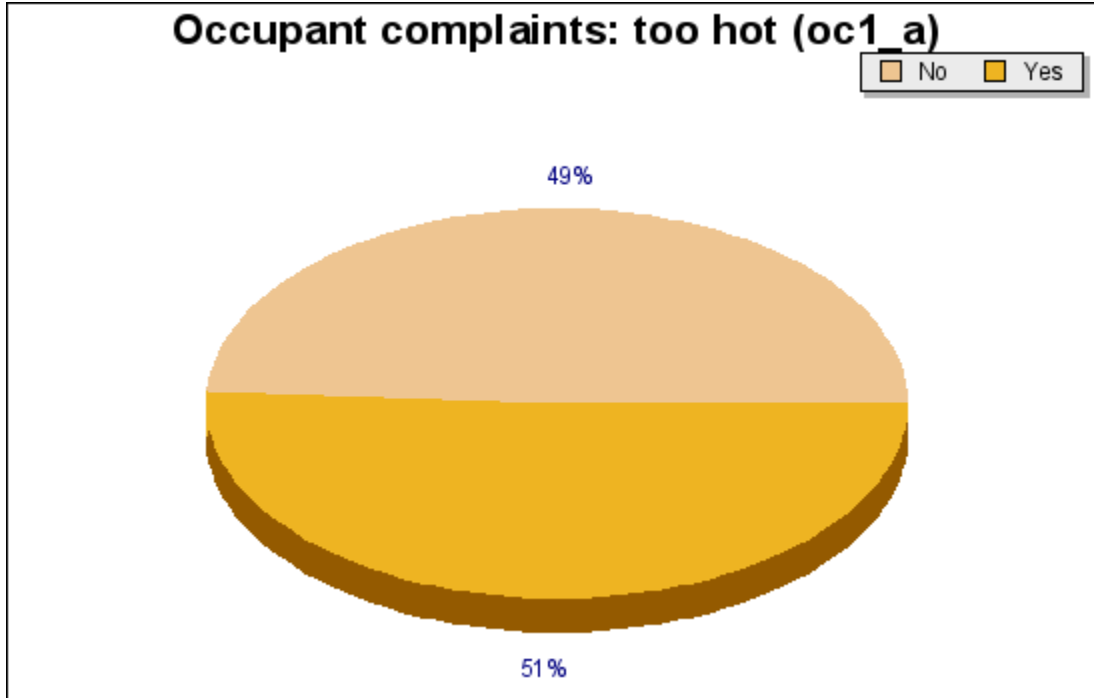


Question ivfC25a: 3rd floor: number of humidifiers

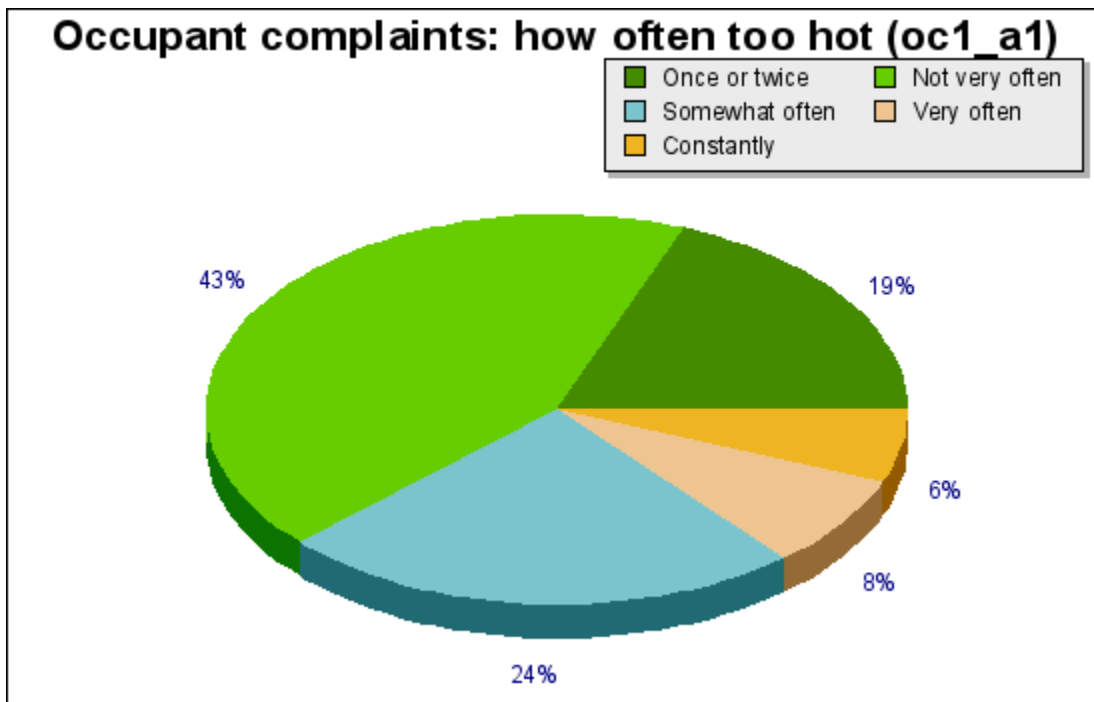


Question ivfC27a: 3rd floor: number of desk fans

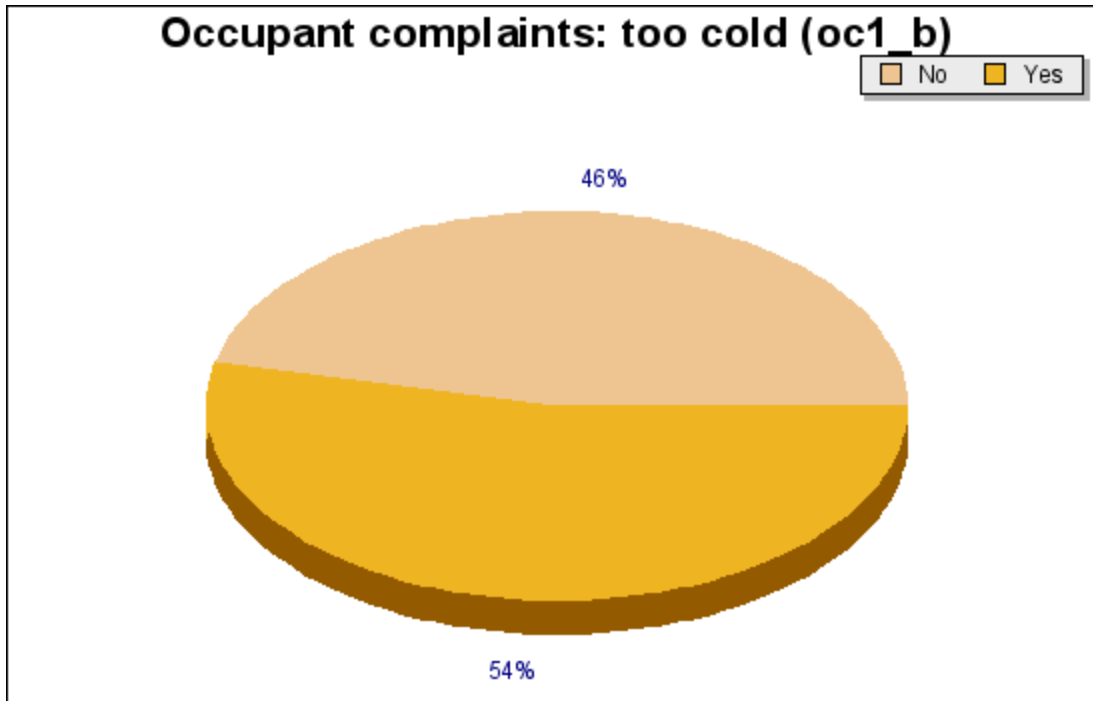
Occupant Complaints



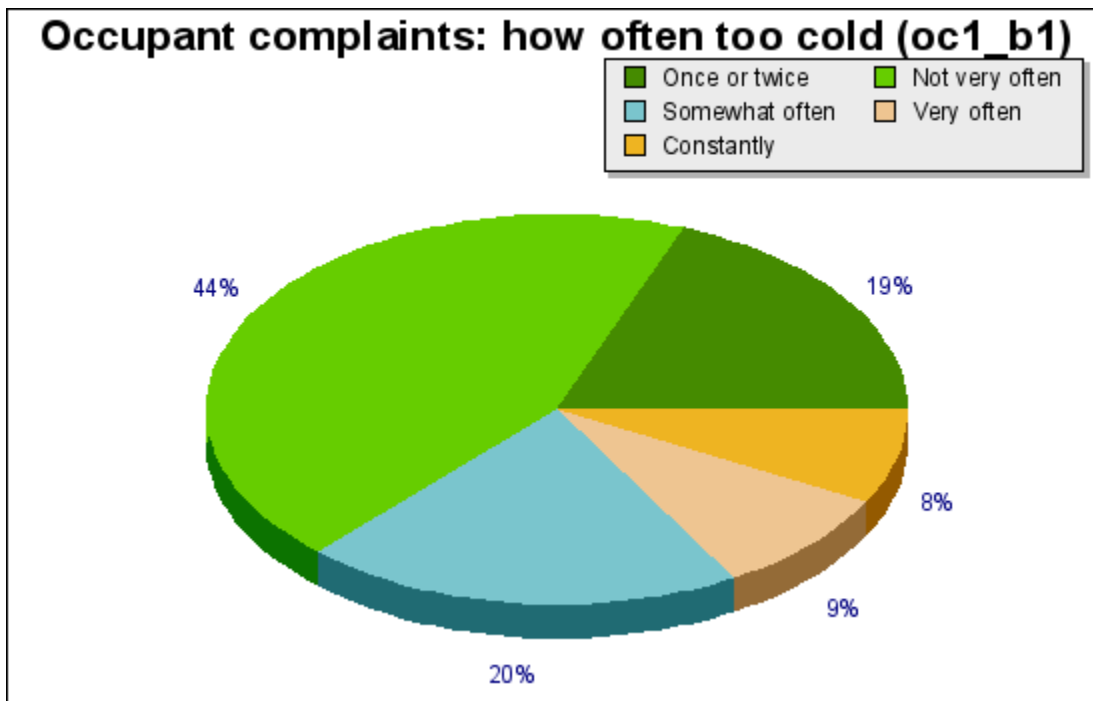
Question oc1_a: Occupant complaints: too hot



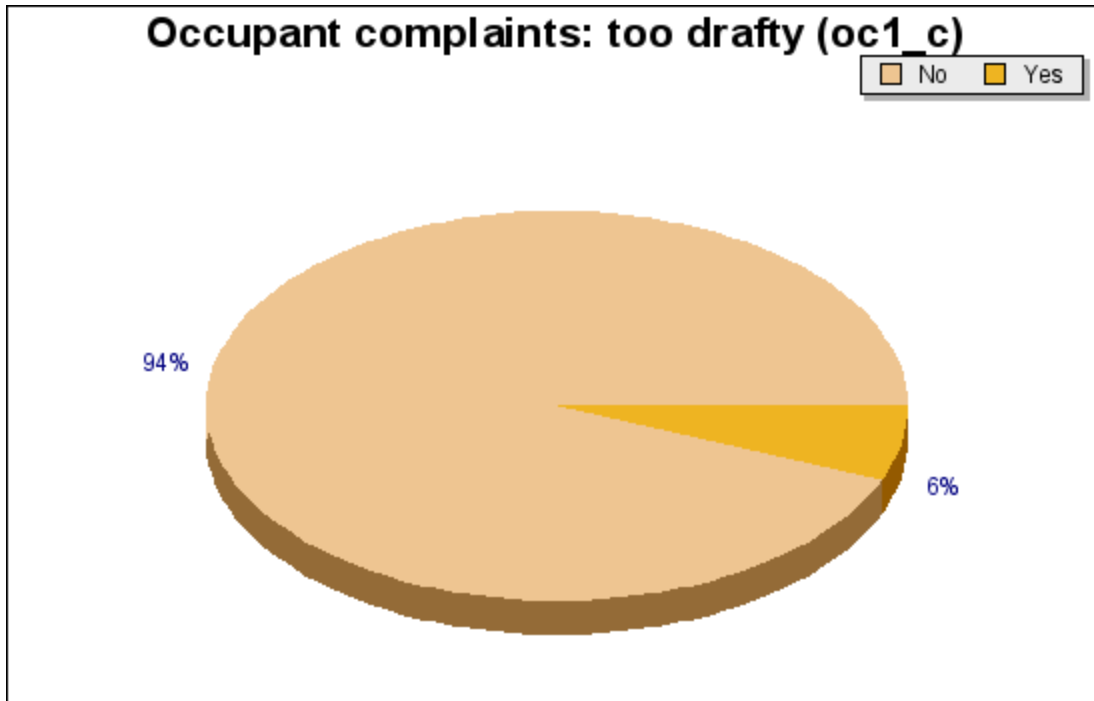
Question oc1_a1: Occupant complaints: how often too hot



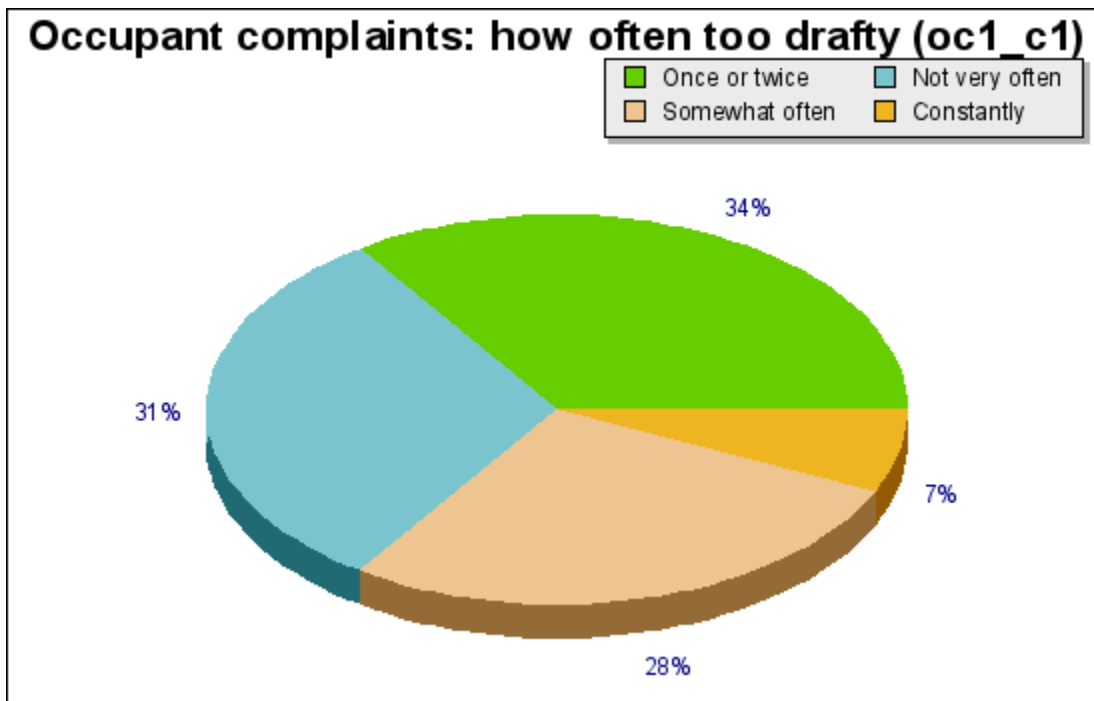
Question oc1_b: Occupant complaints: too cold



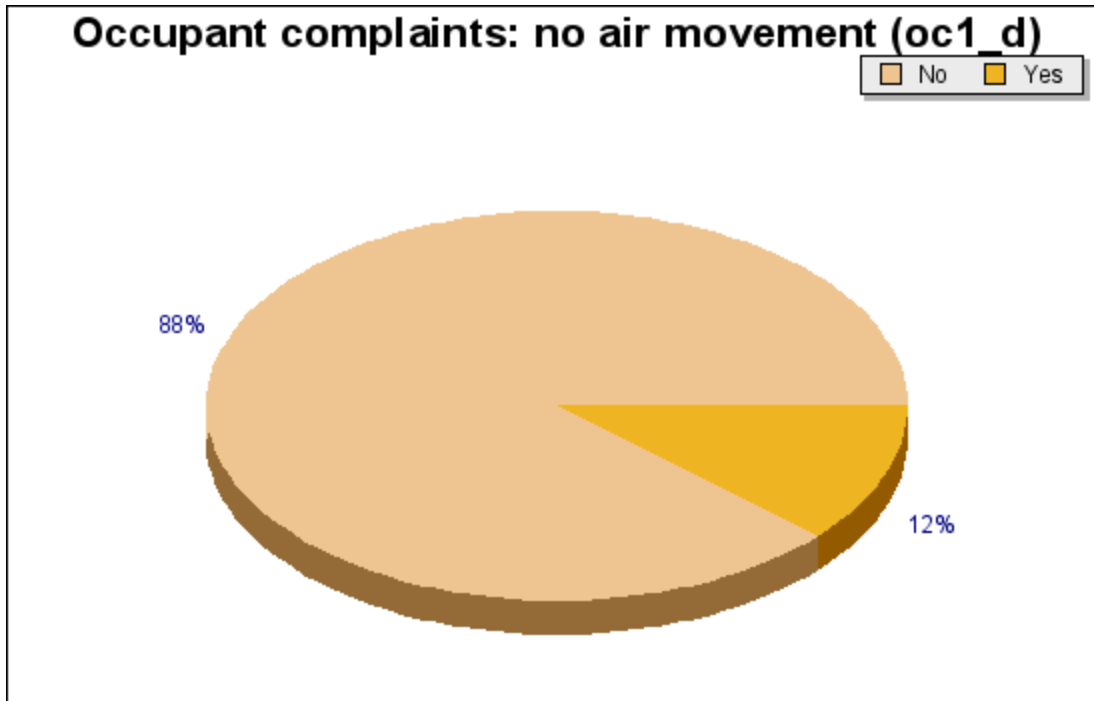
Question oc1_b1: Occupant complaints: how often too cold



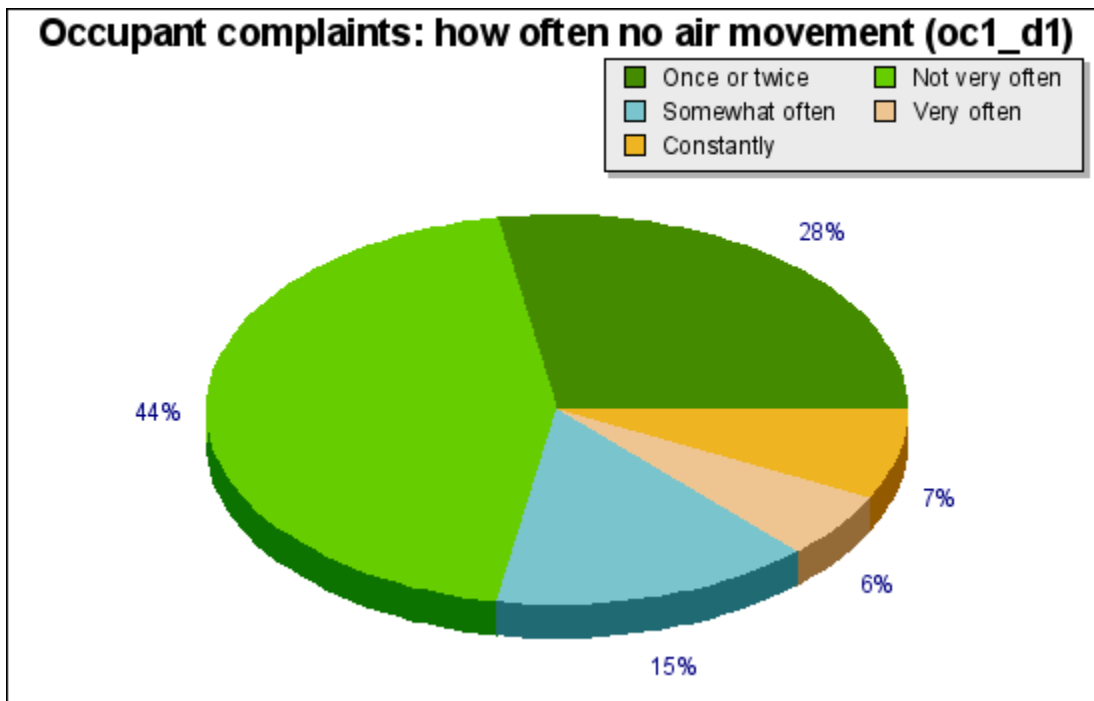
Question oc1_c: Occupant complaints: too drafty



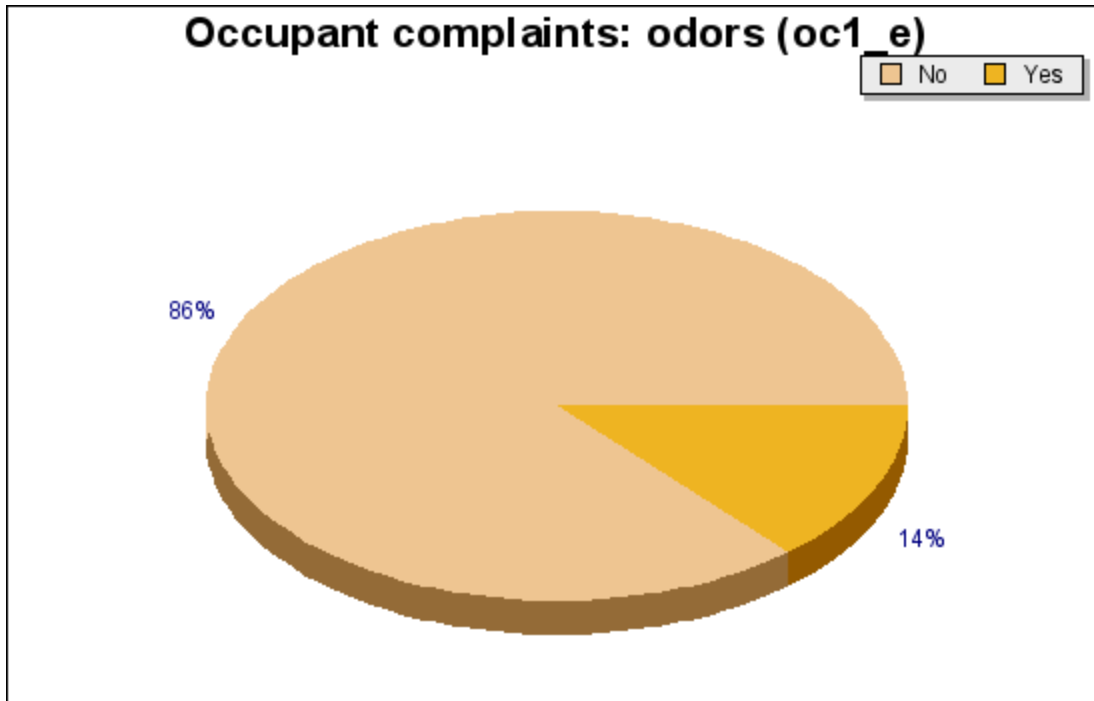
Question oc1_c1: Occupant complaints: how often too drafty



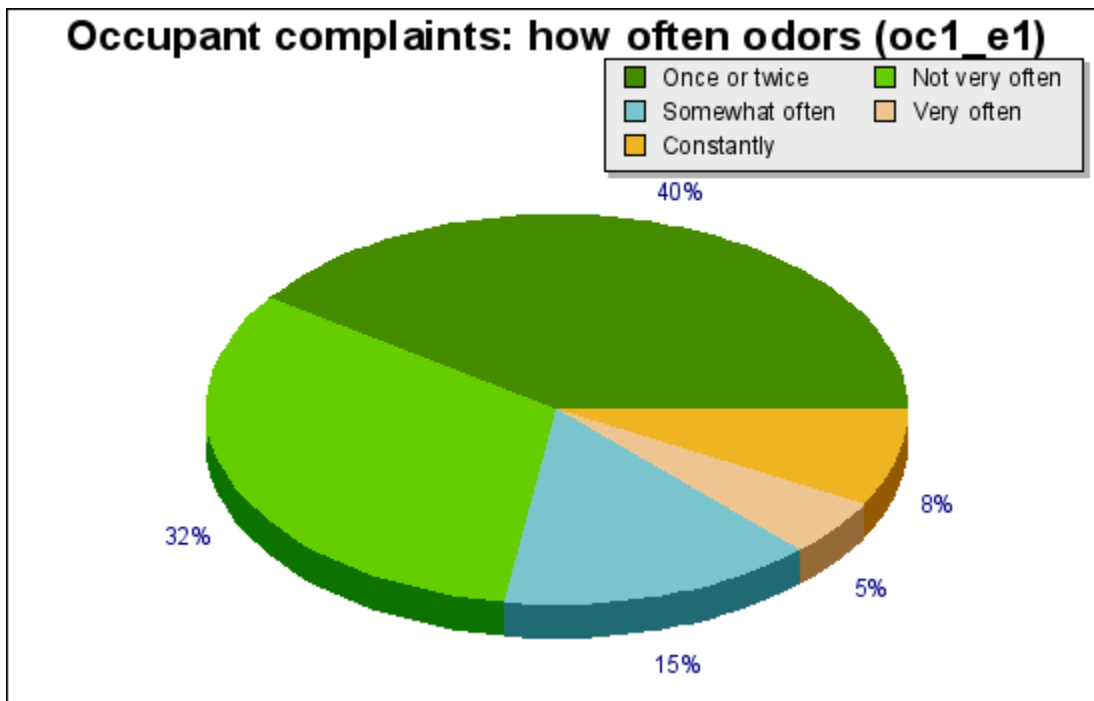
Question oc1_d: Occupant complaints: no air movement



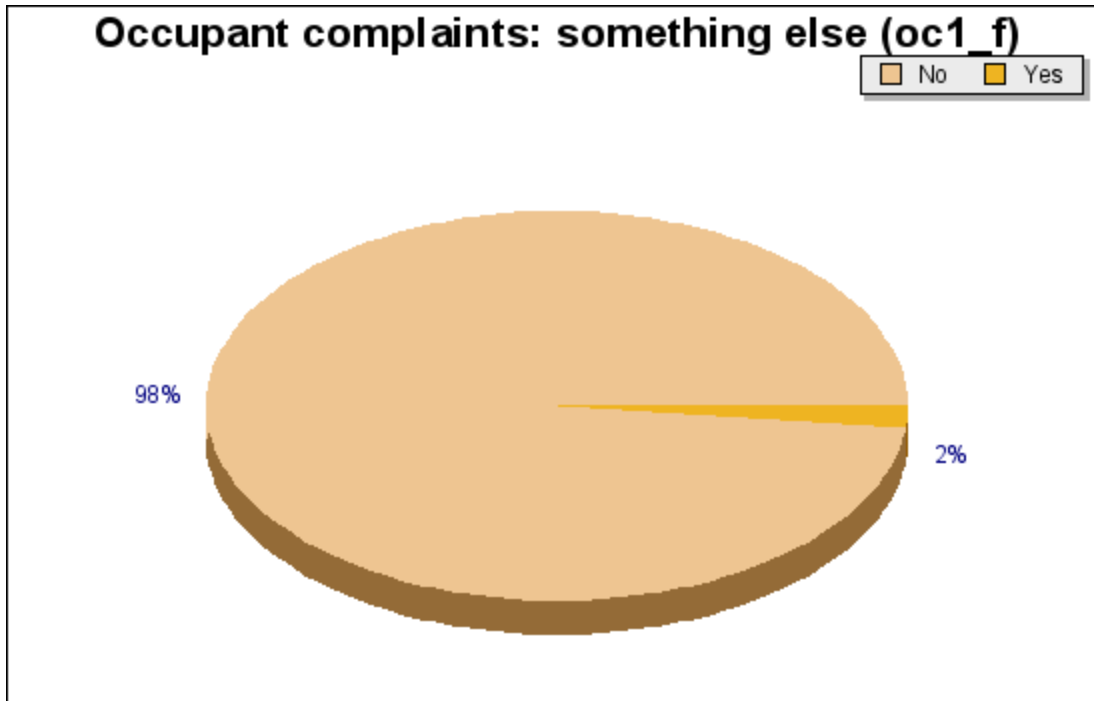
Question oc1_d1: Occupant complaints: how often no air movement



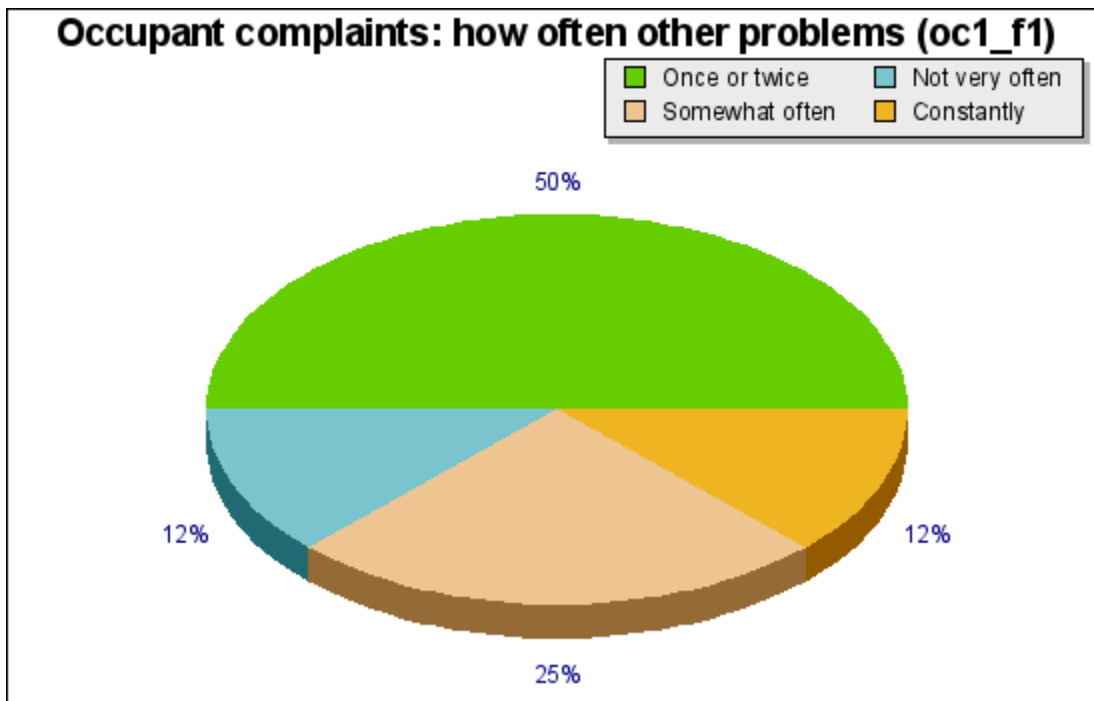
Question oc1_e: Occupant complaints: odors



Question oc1_e1: Occupant complaints: how often odors

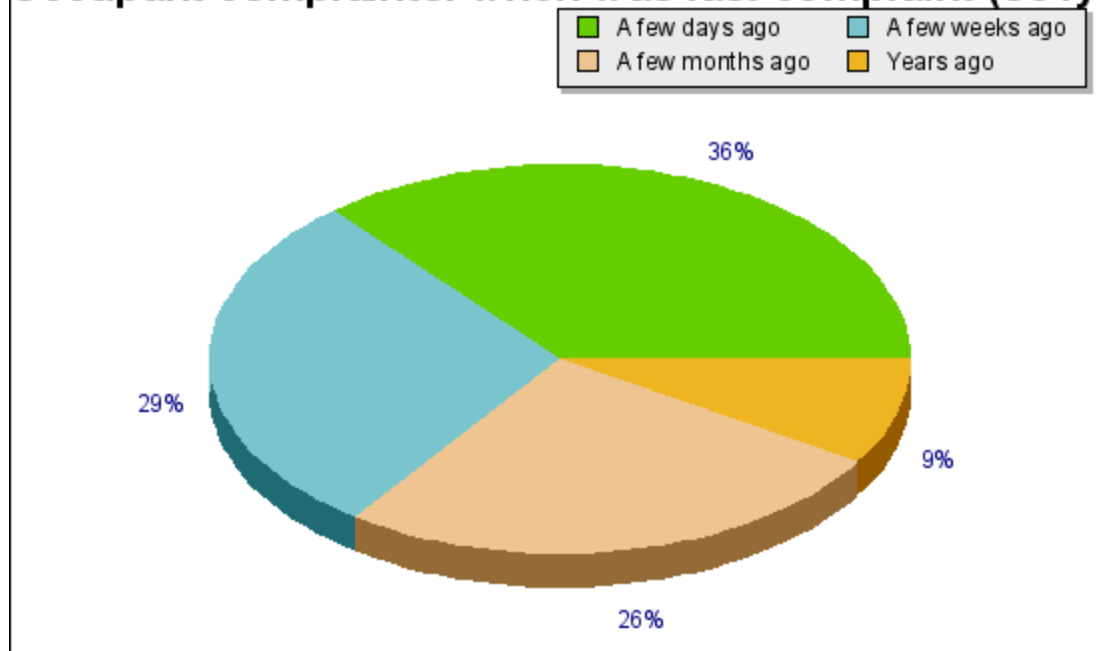


Question oc1_f: Occupant complaints: something else

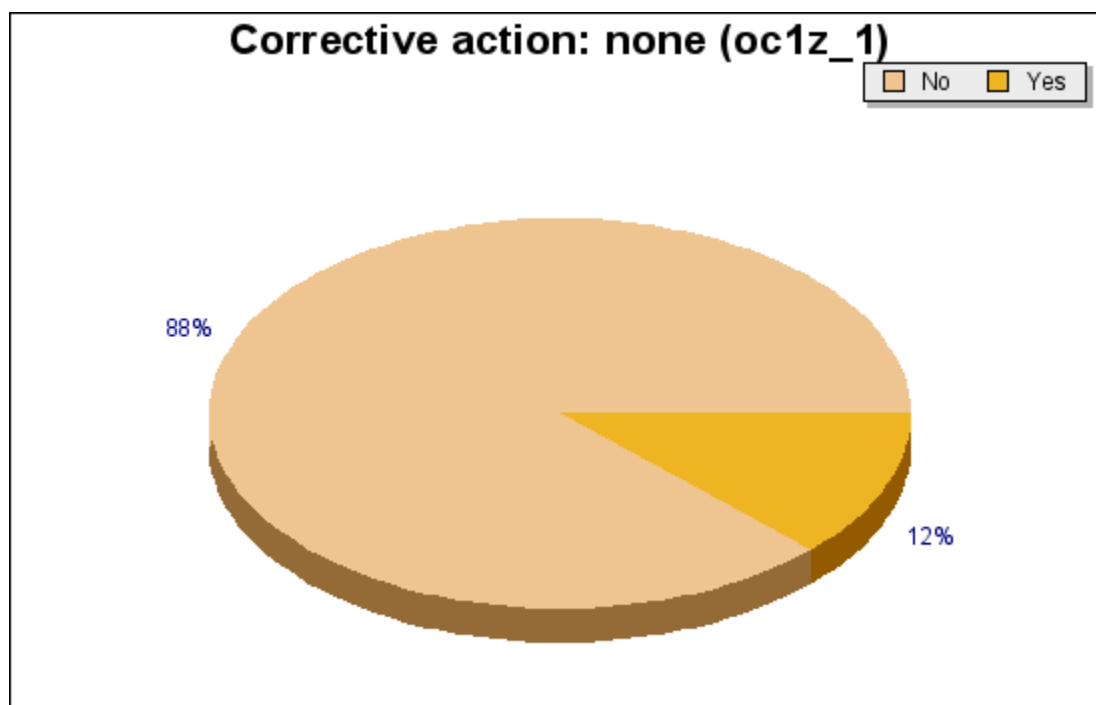


Question oc1_f1: Occupant complaints: how often other problems

Occupant complaints: when was last complaint (oc1y)



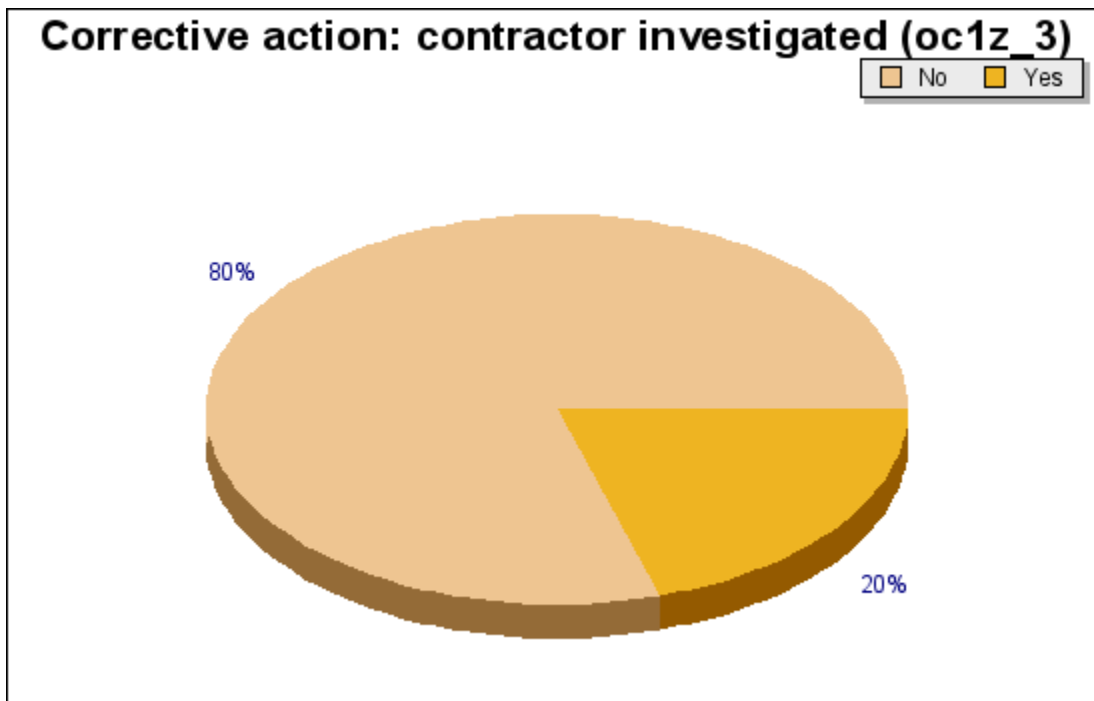
Question oc1y: Occupant complaints: when was last complaint



Question oc1z_1: Corrective action: none



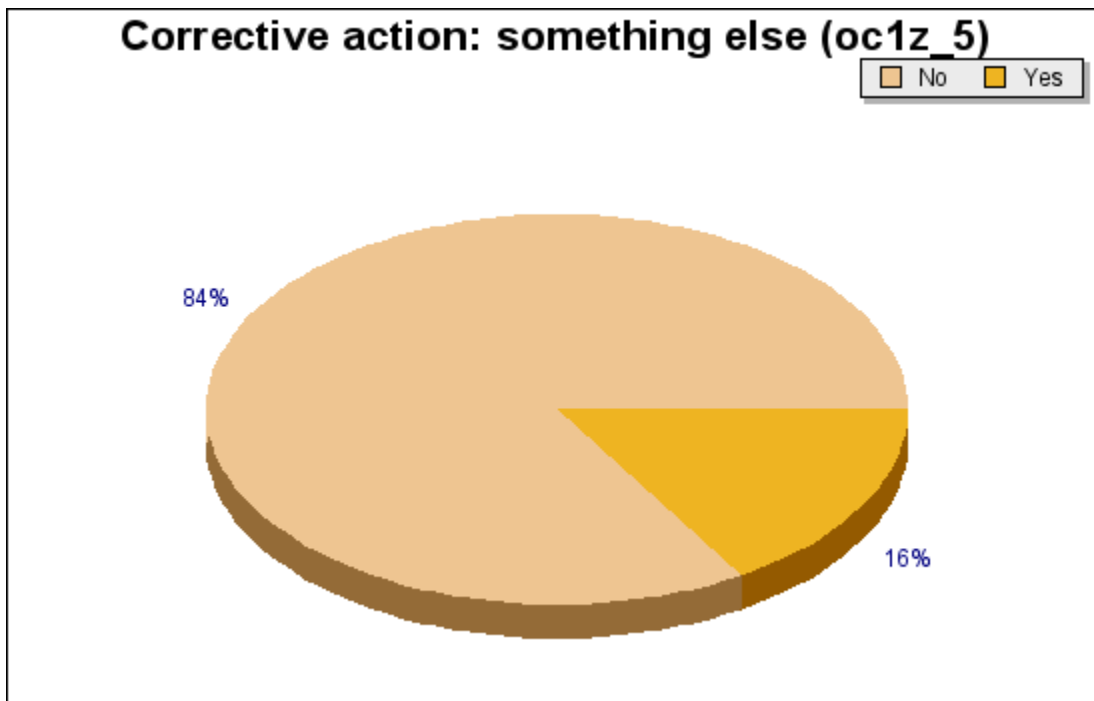
Question oc1z_2: Corrective action: manager investigated



Question oc1z_3: Corrective action: contractor investigated

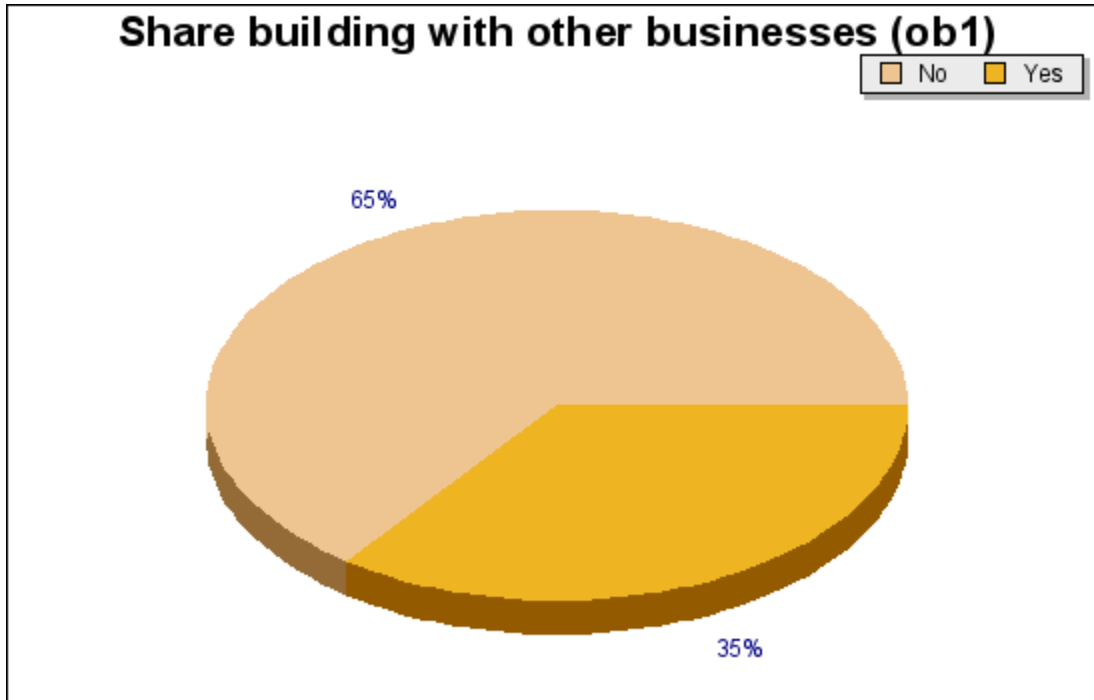


Question oc1z_4: Corrective action: supervisor investigated



Question oc1z_5: Corrective action: something else

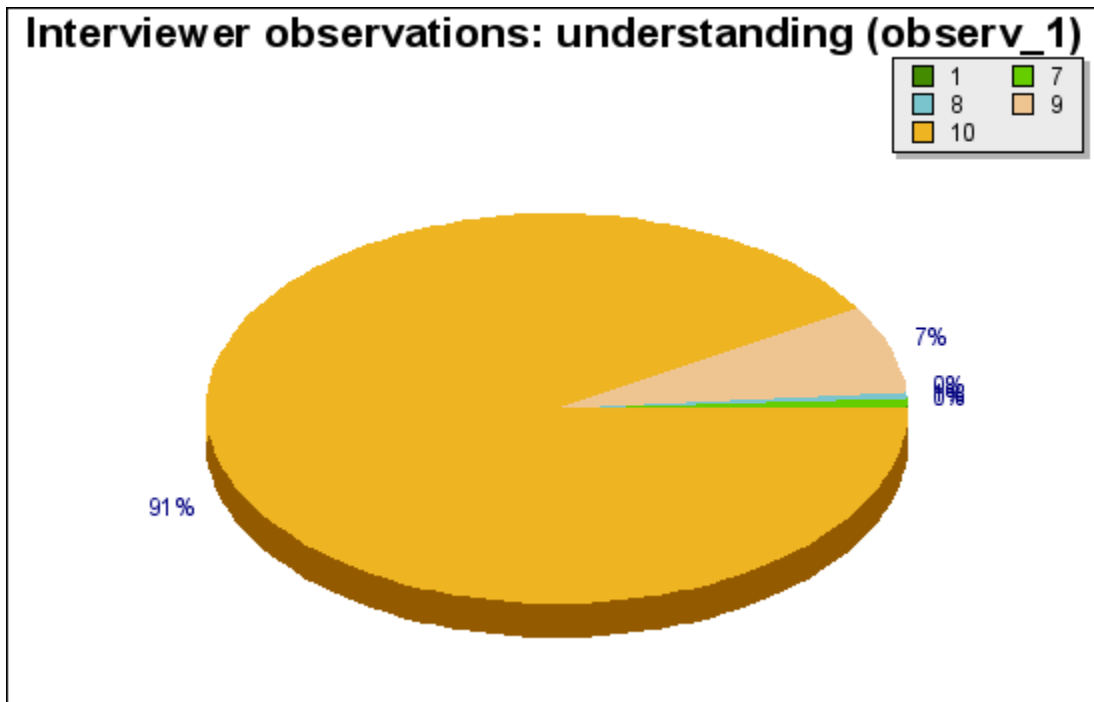
Other Businesses



Question ob1: Share building with other businesses

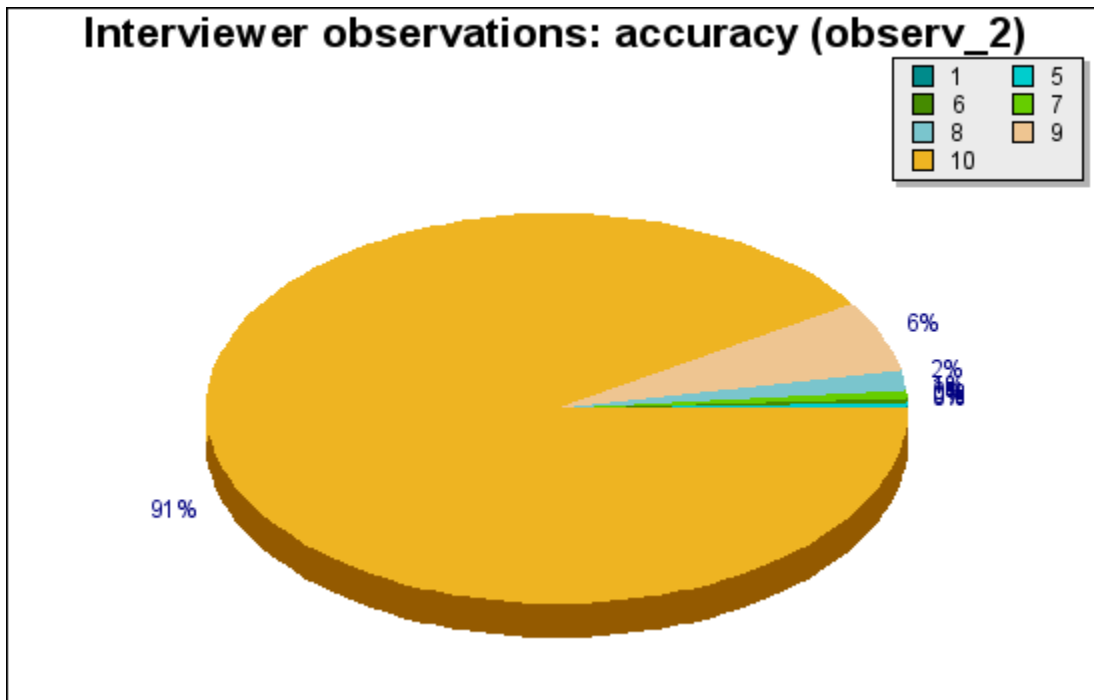
Interviewer Observations

Interviewer observations: understanding (observ_1)

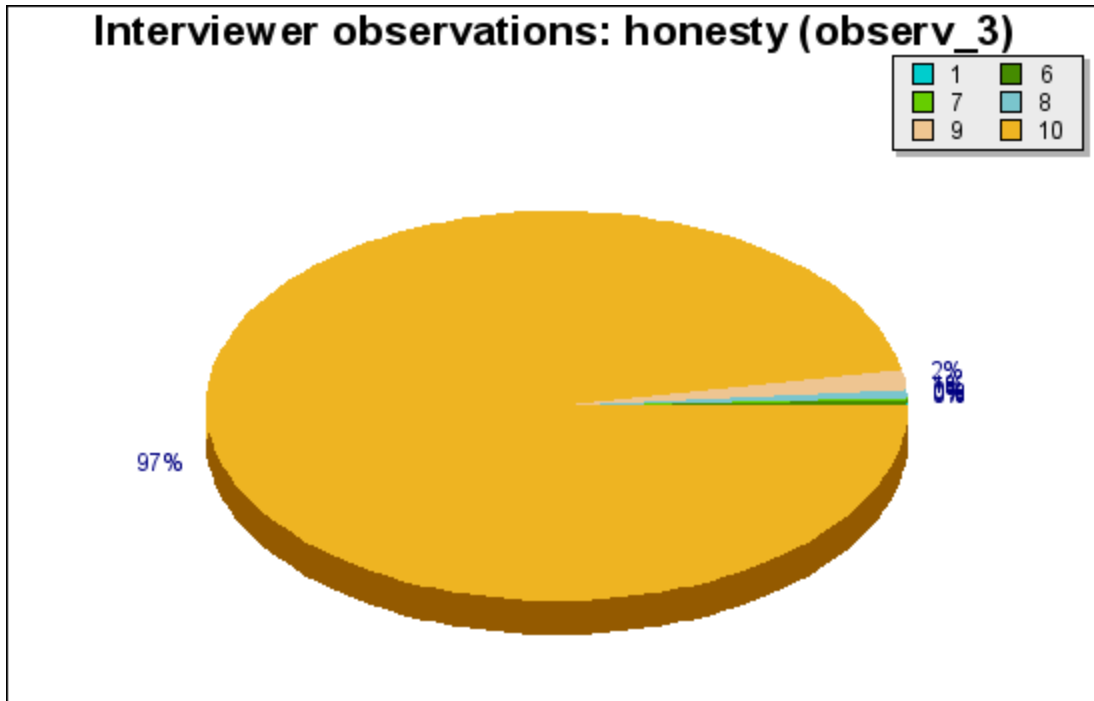


Question observ_1: Interviewer observations: understanding

Interviewer observations: accuracy (observ_2)

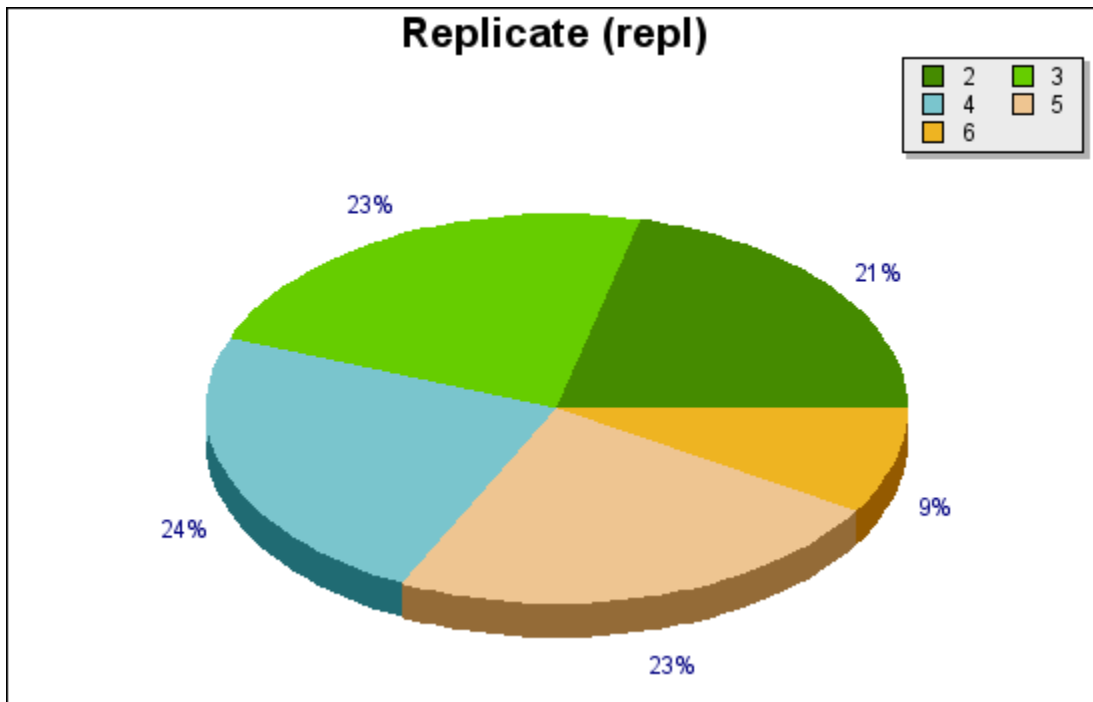


Question observ_2: Interviewer observations: accuracy

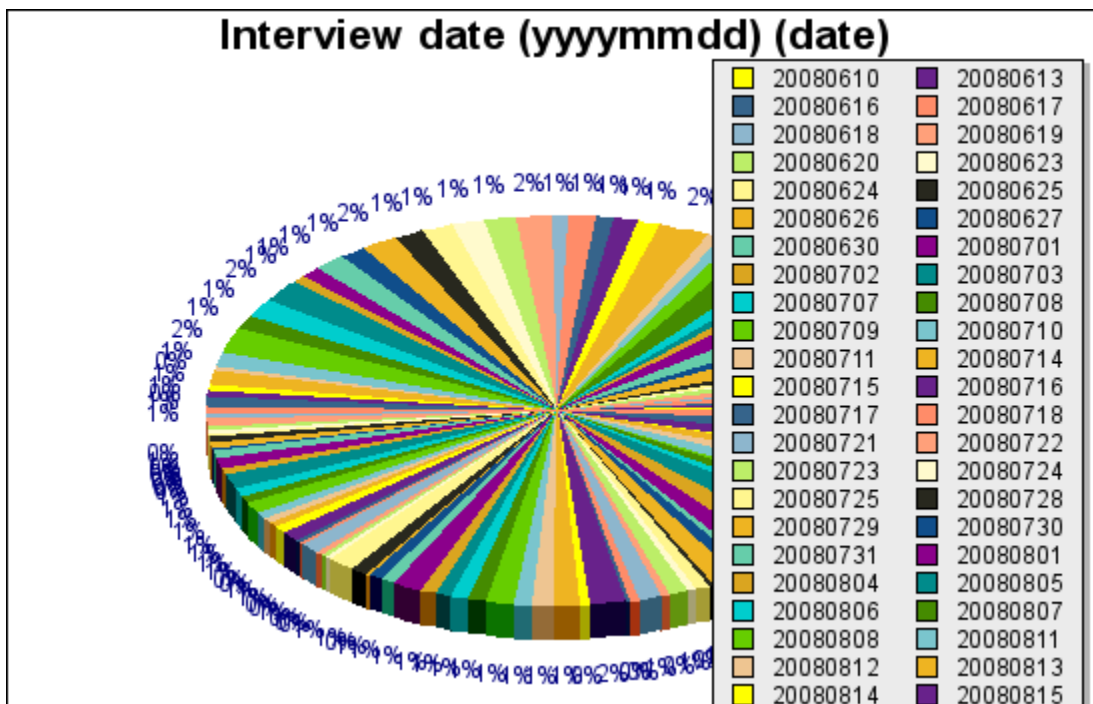


Question observ_3: Interviewer observations: honesty

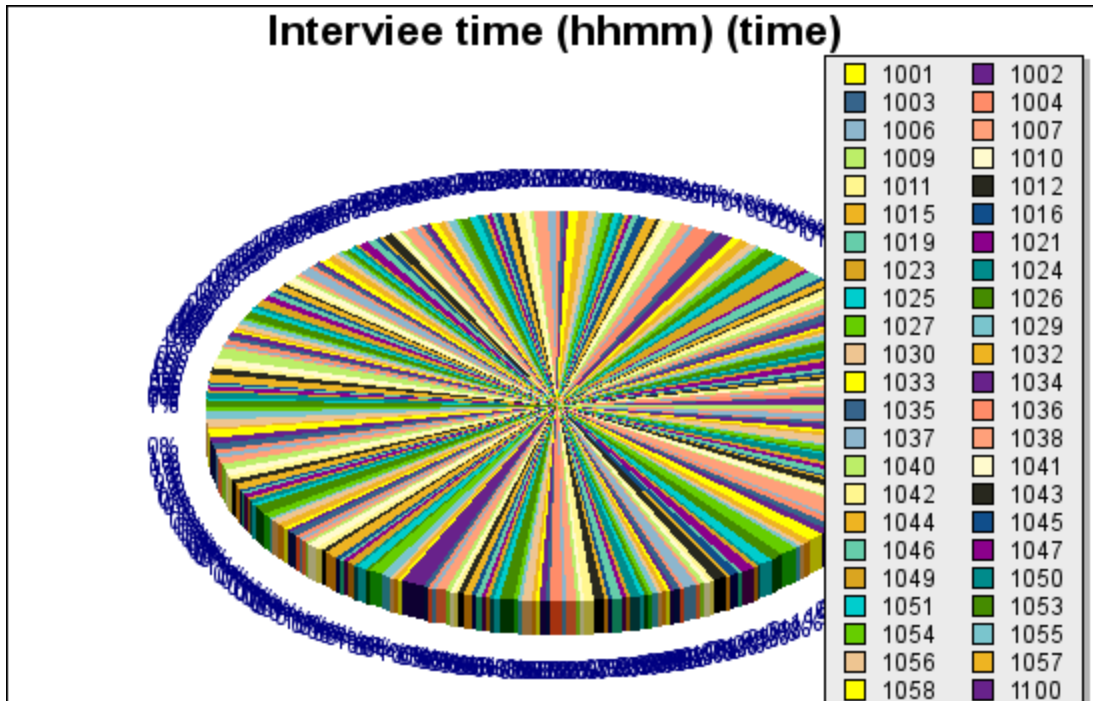
Methodological Variables



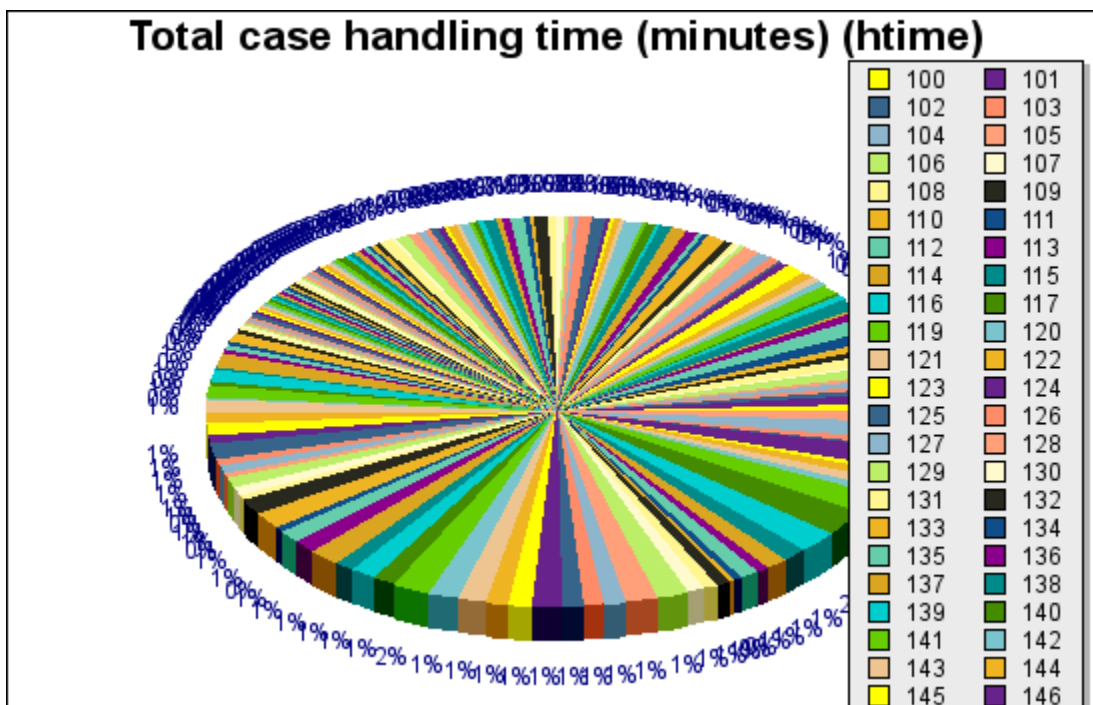
Question repl: Replicate



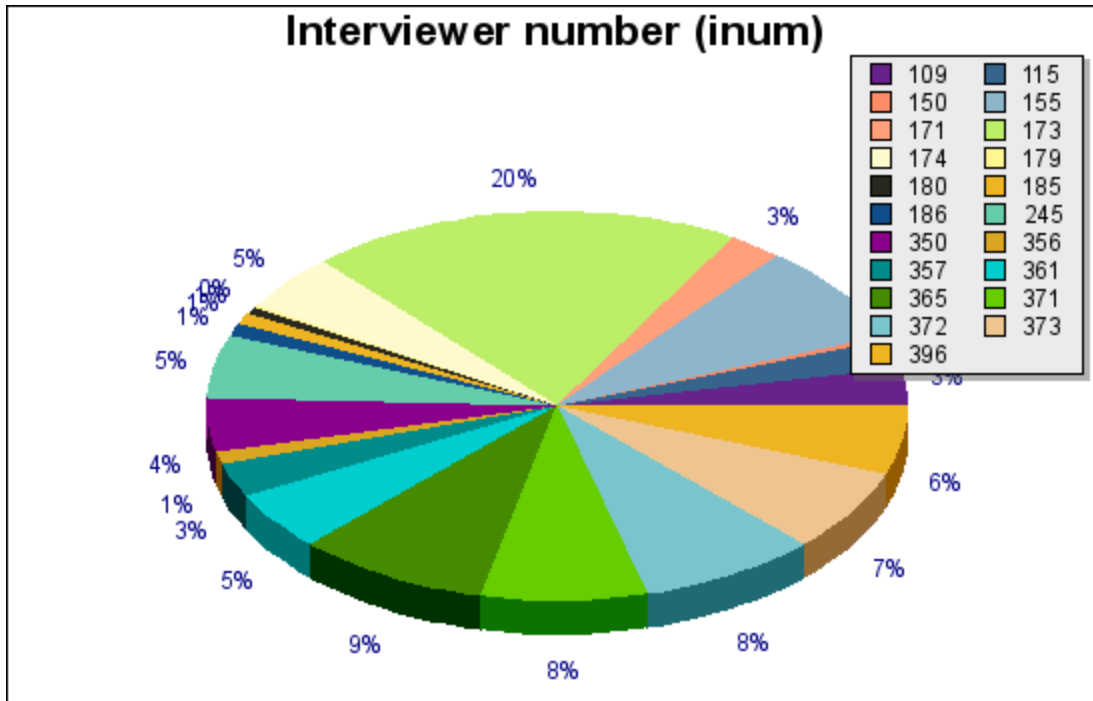
Question date: Interview date (yyymmdd)



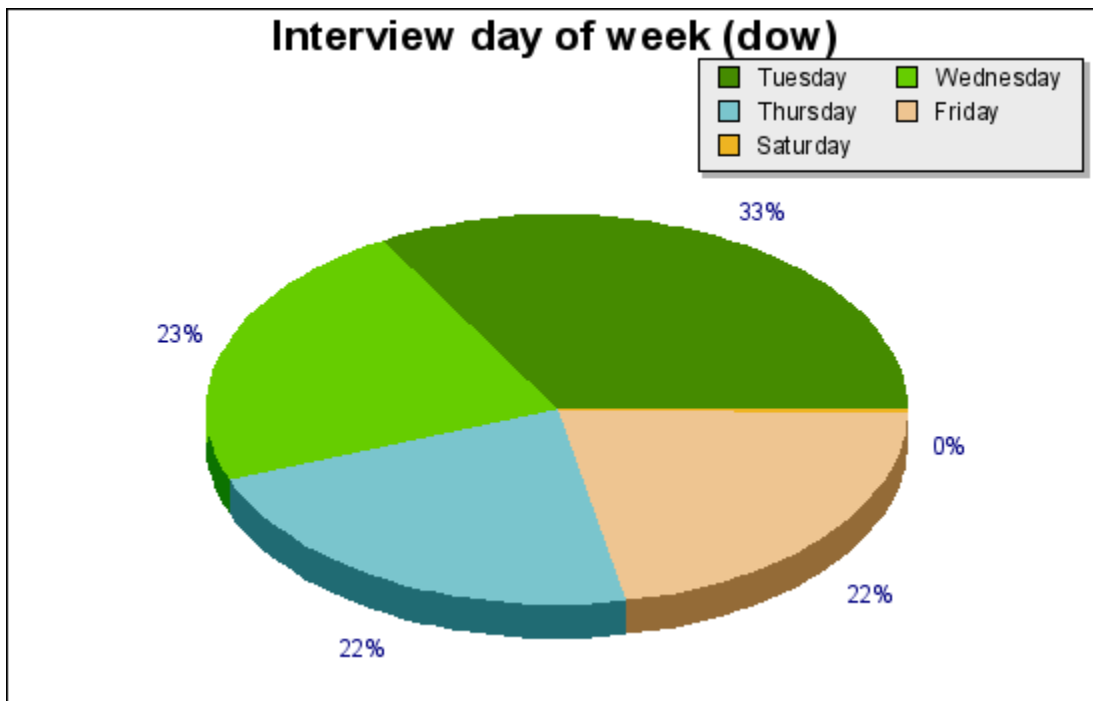
Question time: Interviee time (hhmm)



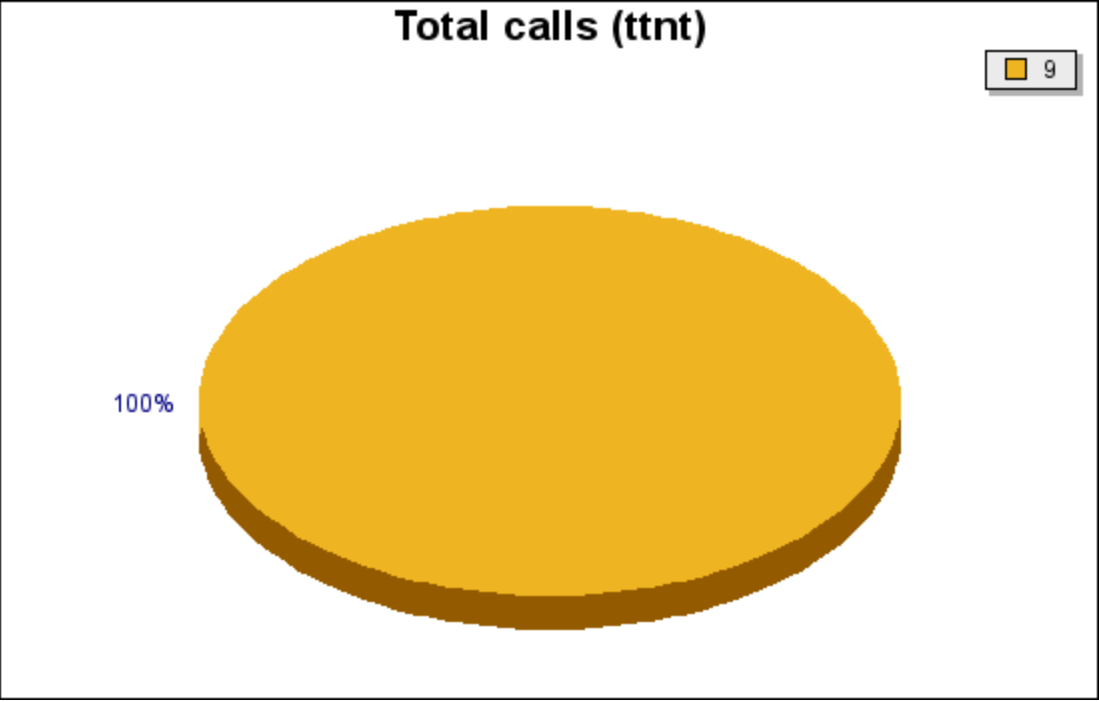
Question htime: Total case handling time (minutes)



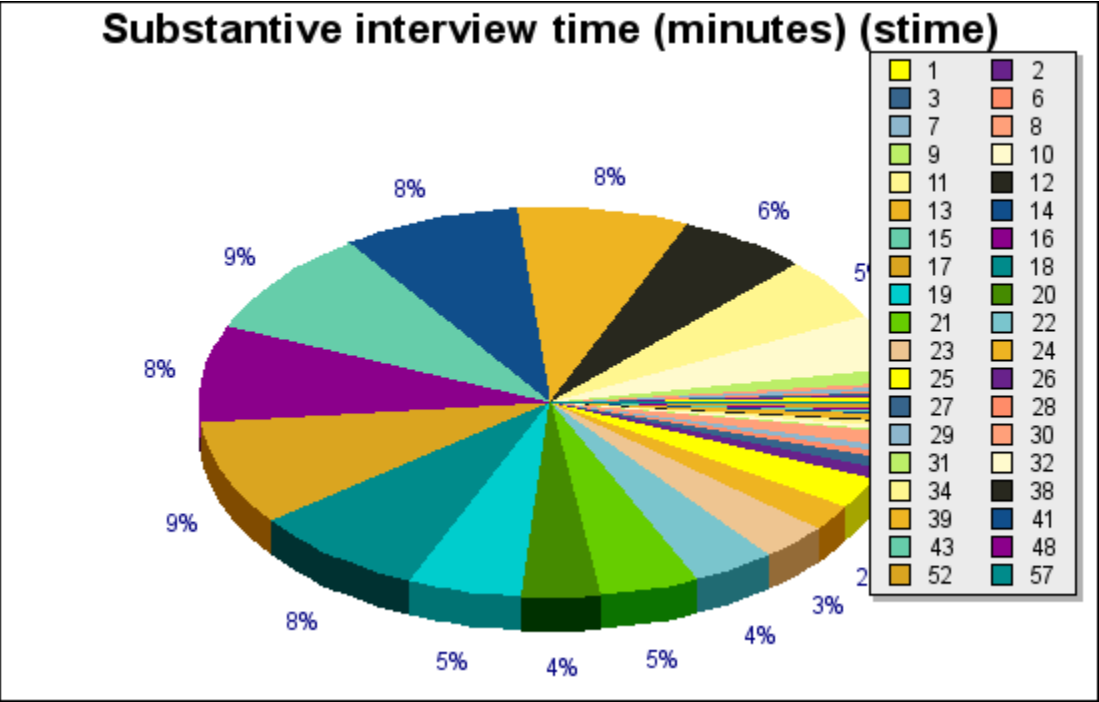
Question inum: Interviewer number



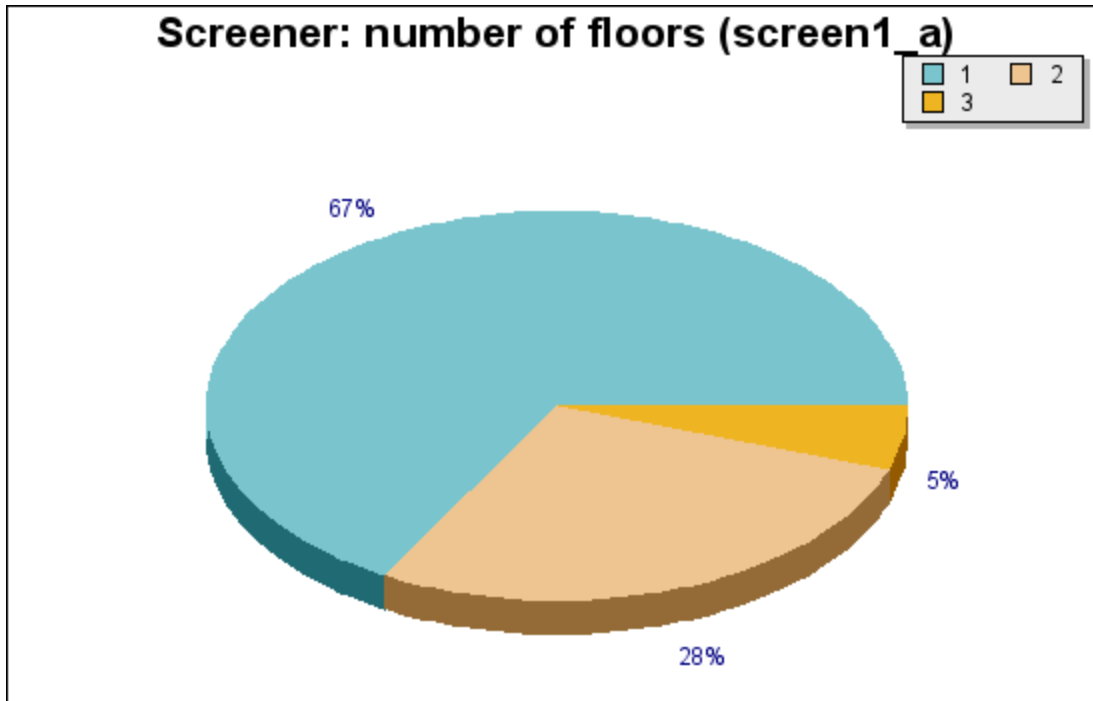
Question dow: Interview day of week



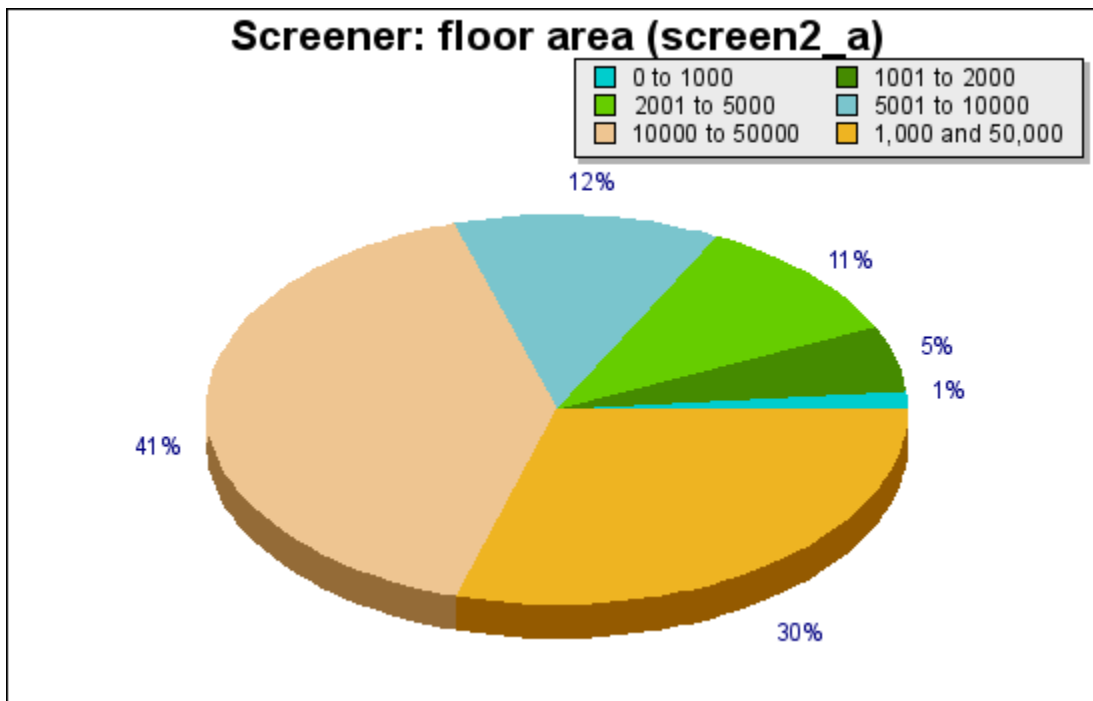
Question ttnt: Total calls



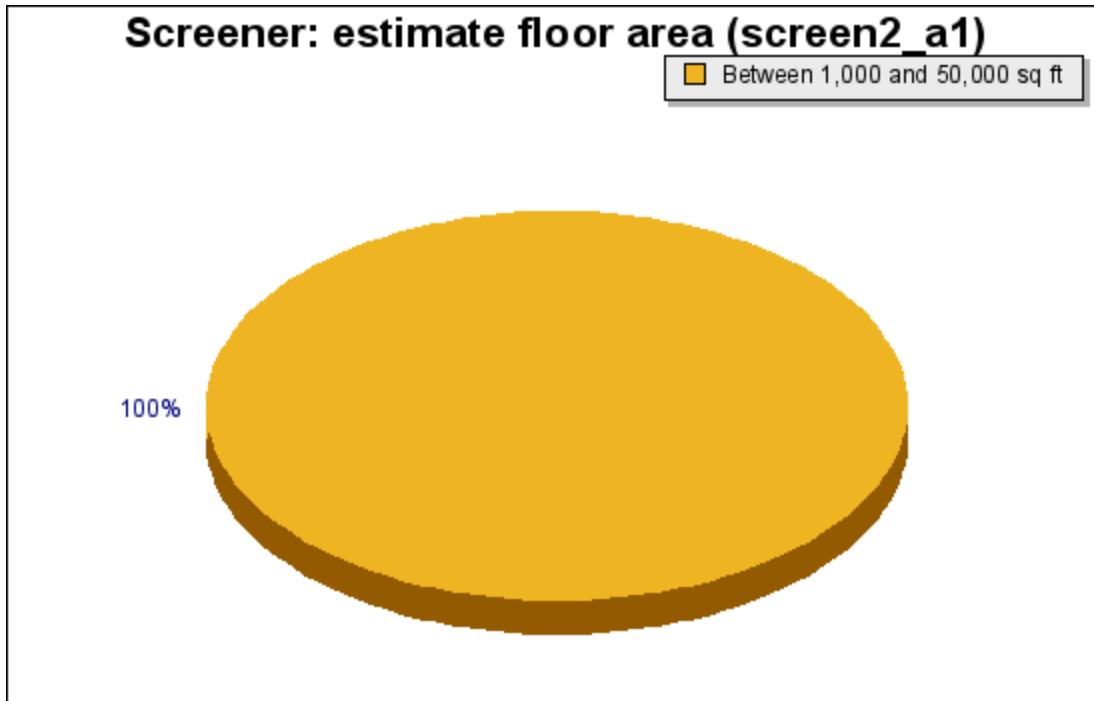
Question stime: Substantive interview time (minutes)



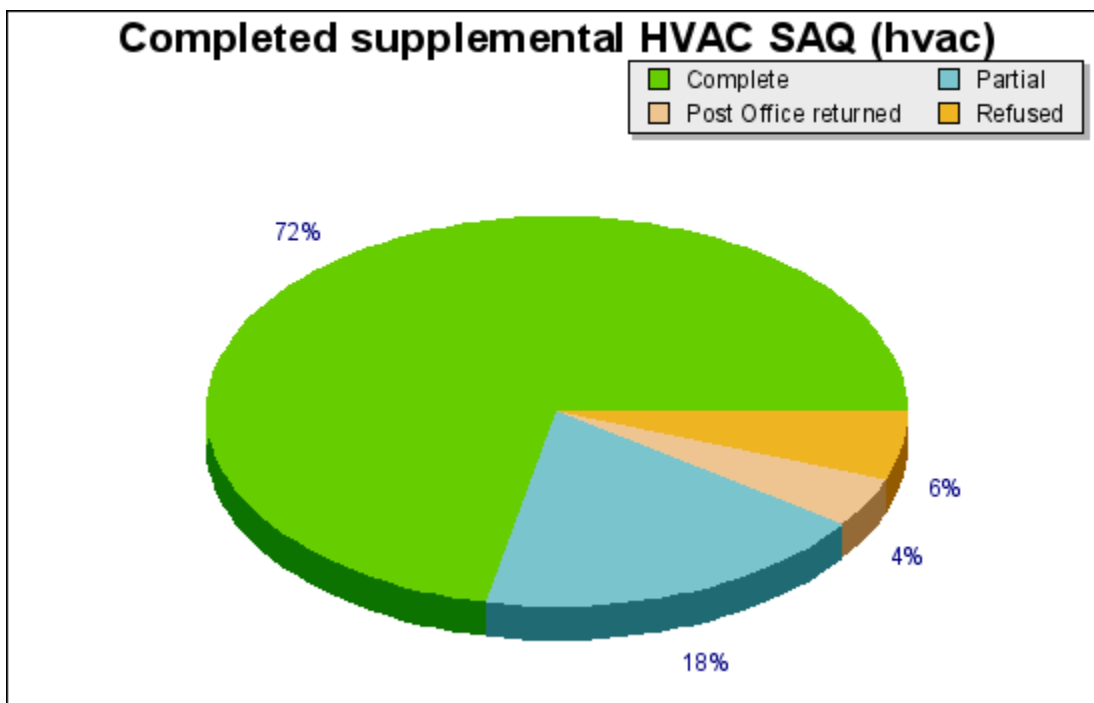
Question screen1_a: Screener: number of floors



Question screen2_a: Screener: floor area

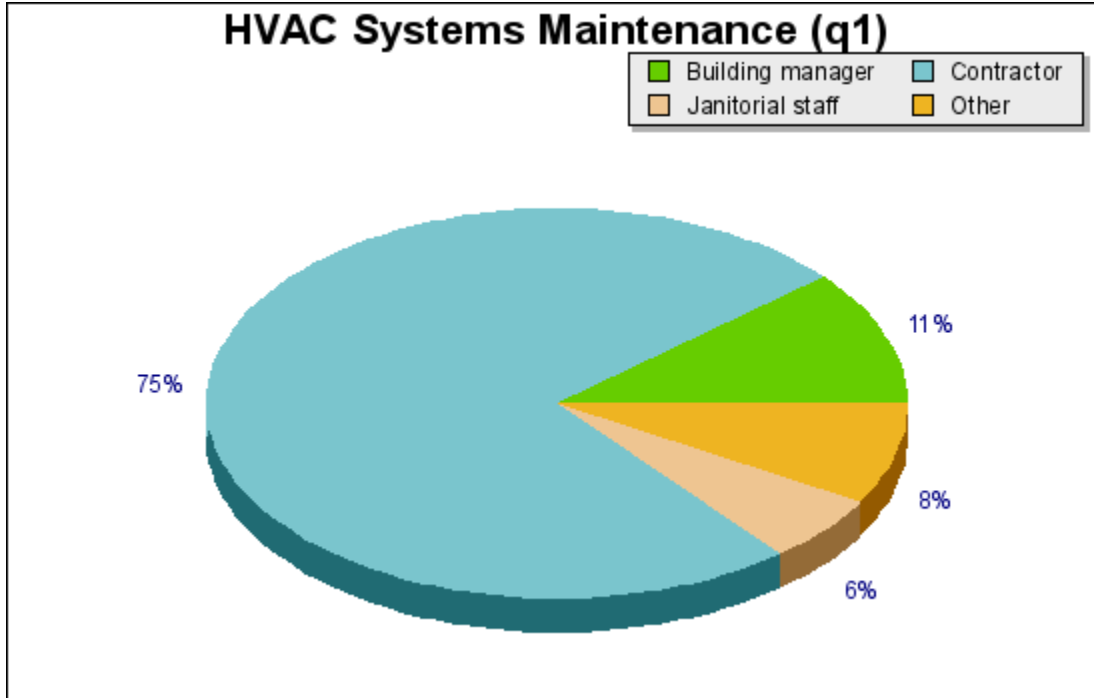


Question screen2_a1: Screener: estimate floor area

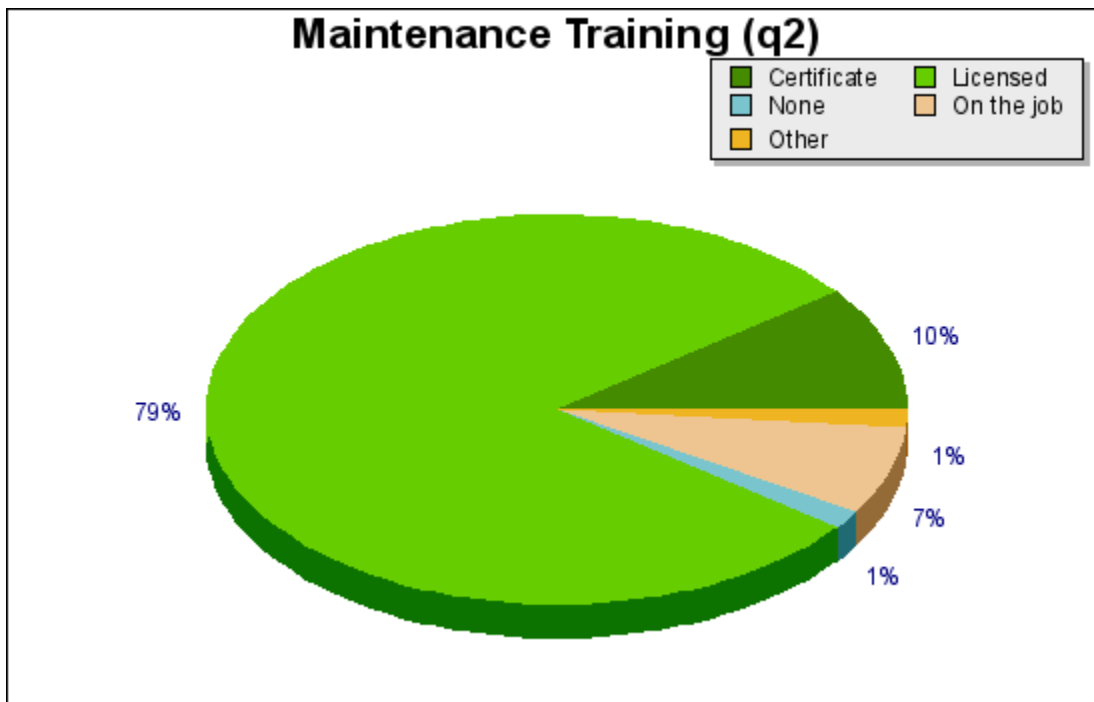


Question HVAC: Completed supplemental HVAC SAQ

Maintenance

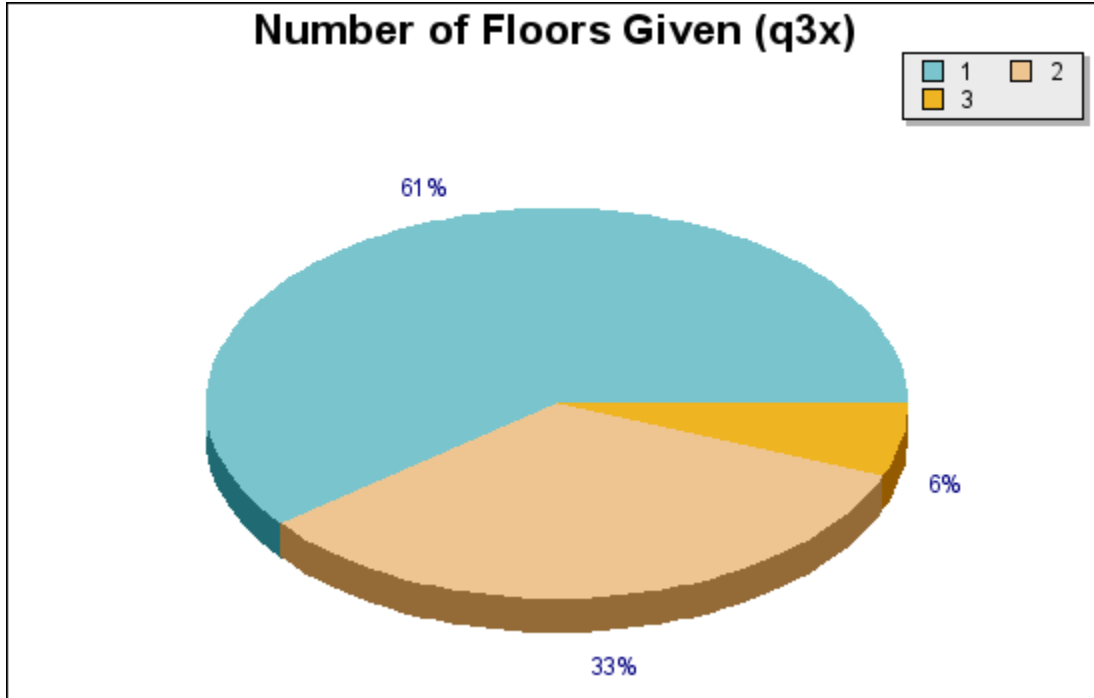


Question q1: HVAC Systems Maintenance

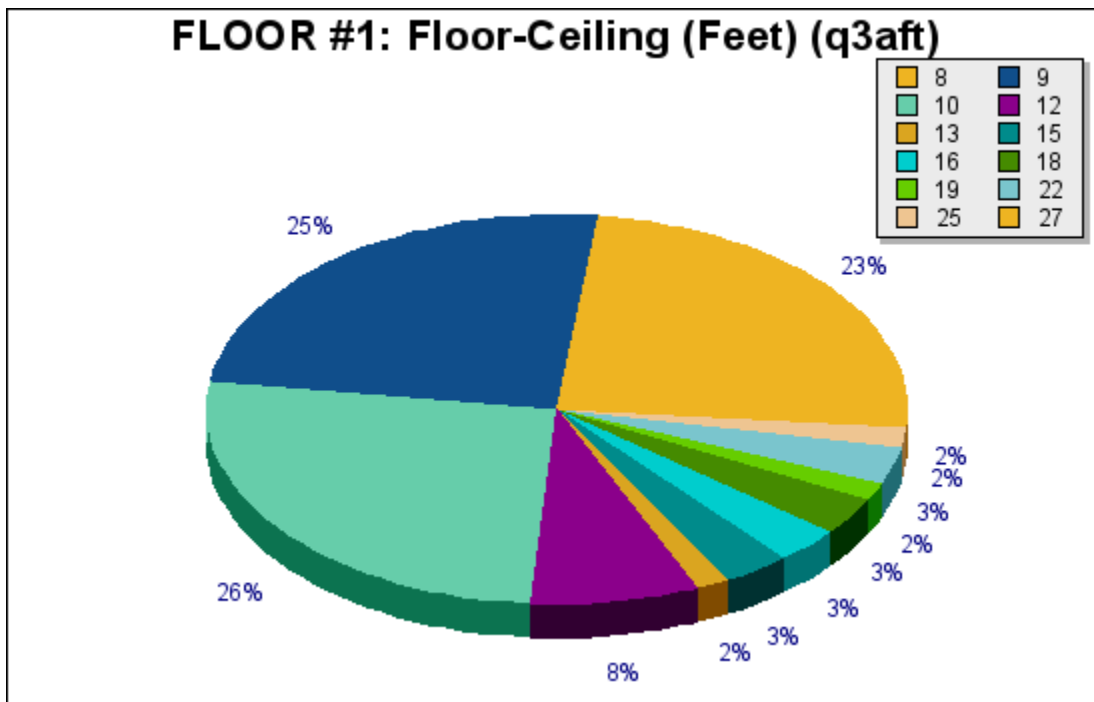


Question q2: Maintenance Training

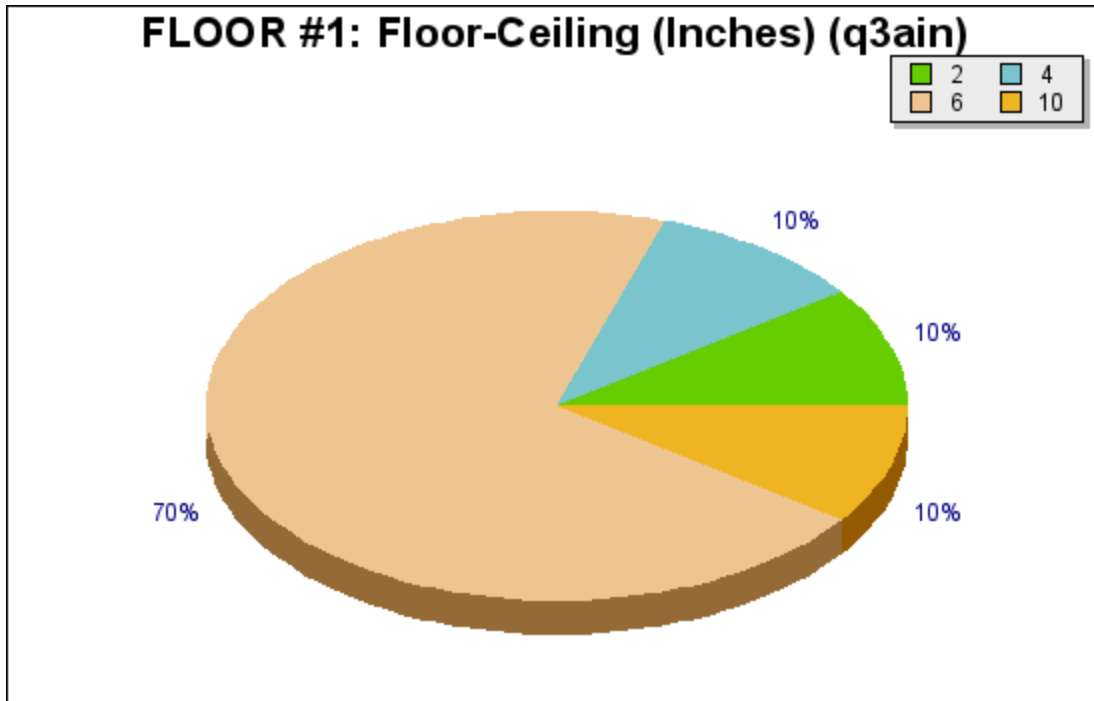
Space Interior Finishes



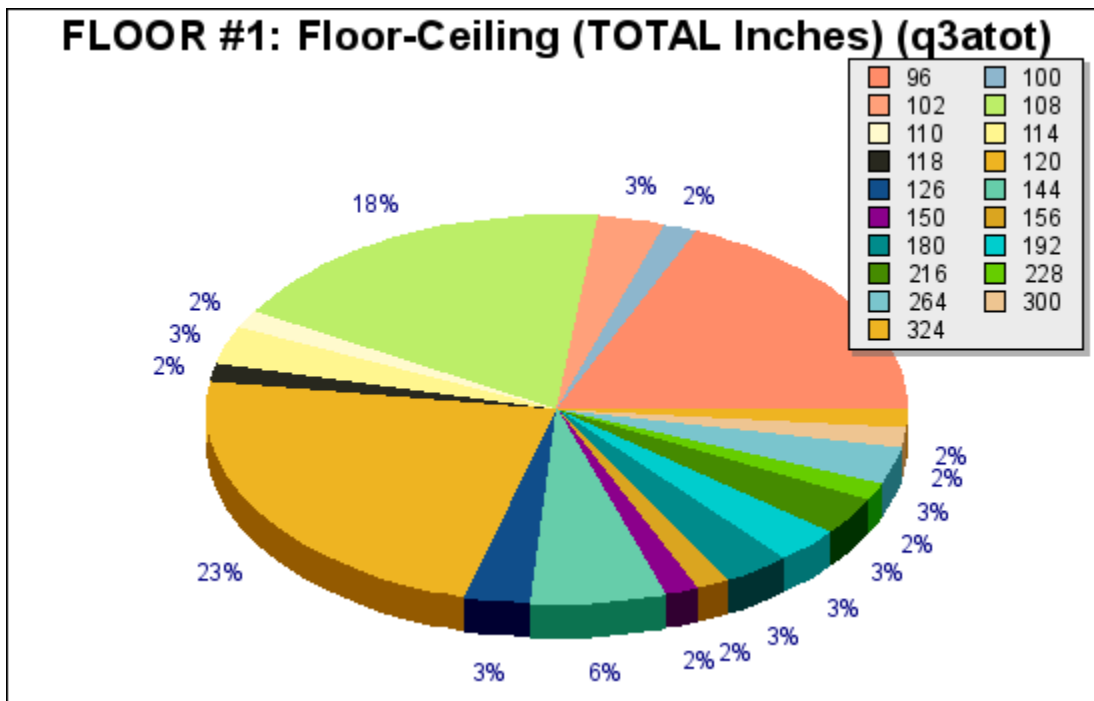
Question q3x: Number of Floors Given



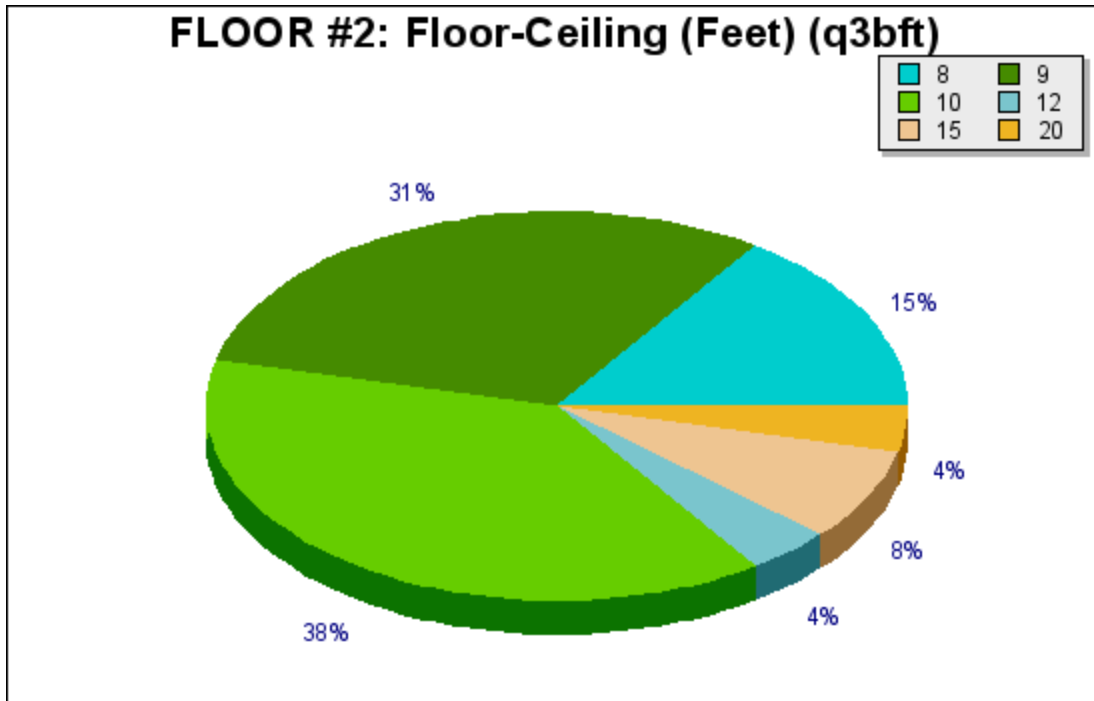
Question q3aft: FLOOR #1: Floor-Ceiling (Feet)



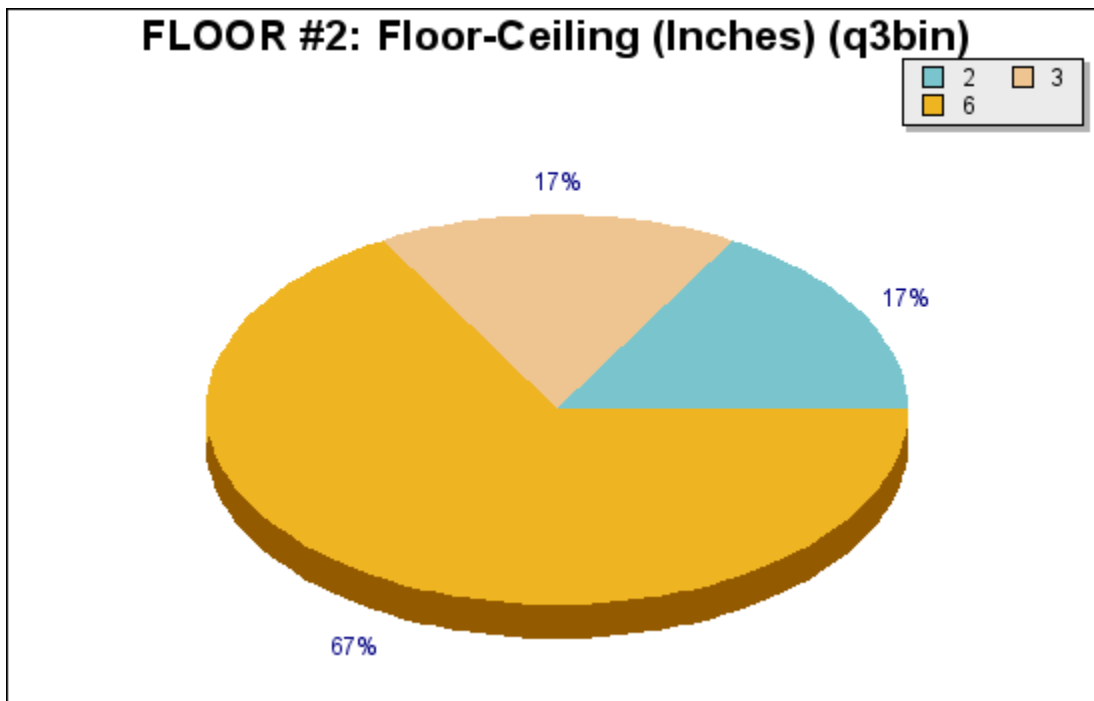
Question q3ain: FLOOR #1: Floor-Ceiling (Inches)



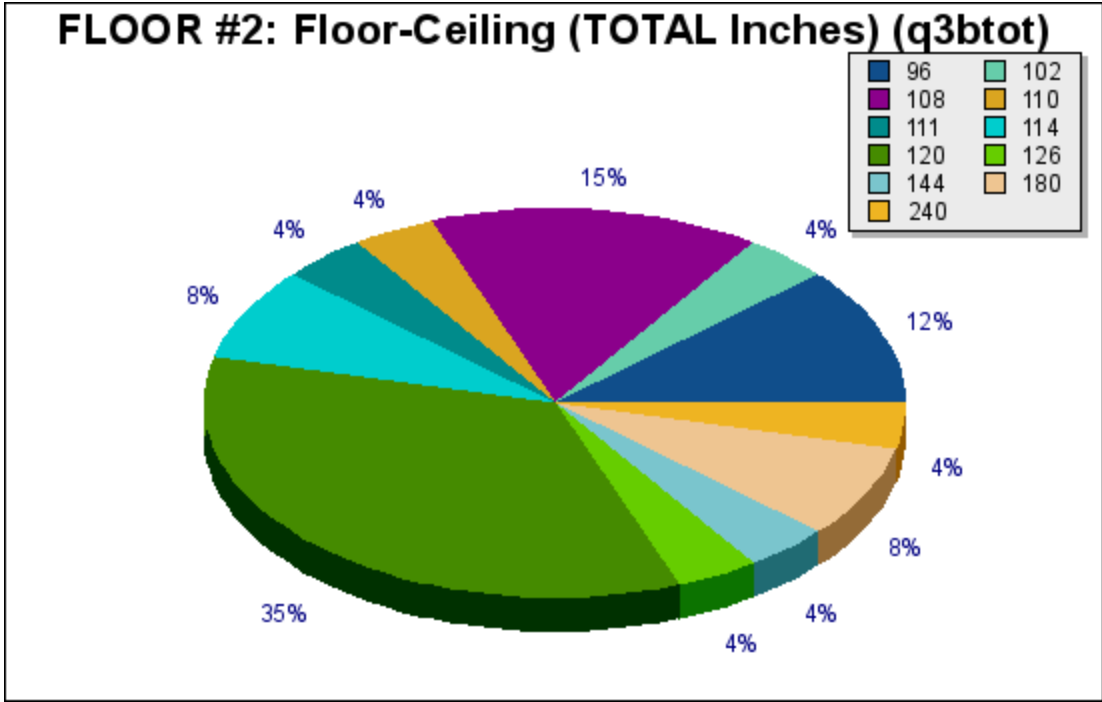
Question q3atot: FLOOR #1: Floor-Ceiling (TOTAL Inches)



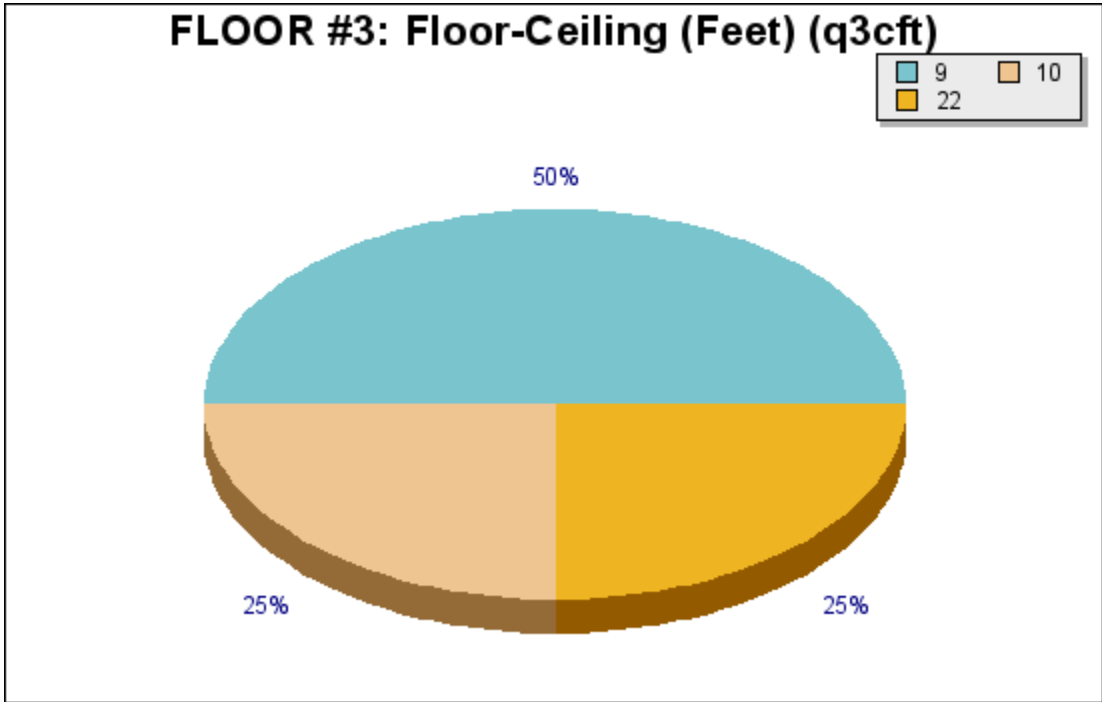
Question q3bft: FLOOR #2: Floor-Ceiling (Feet)



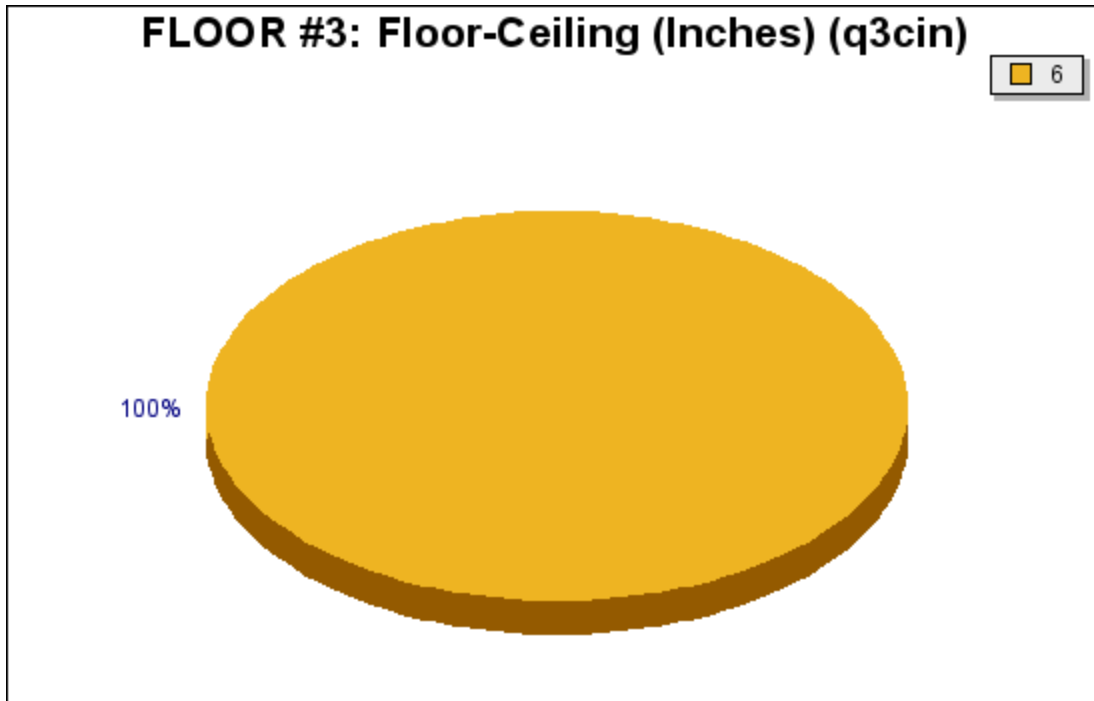
Question q3bin: FLOOR #2: Floor-Ceiling (Inches)



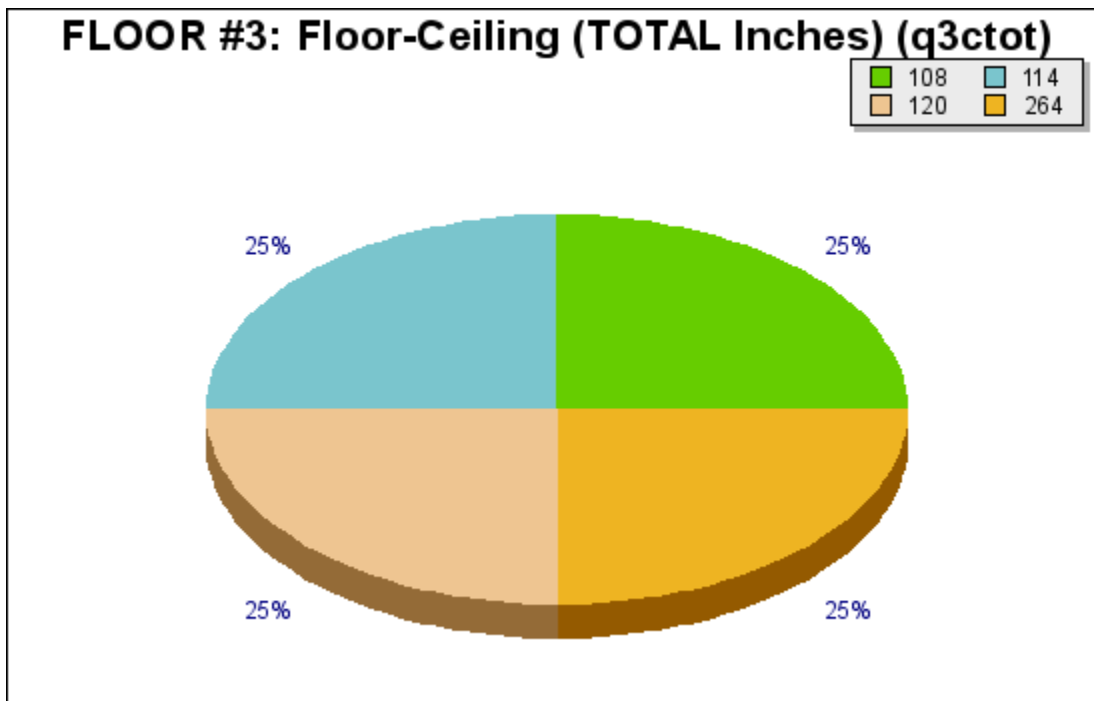
Question q3btot: FLOOR #2: Floor-Ceiling (TOTAL Inches)



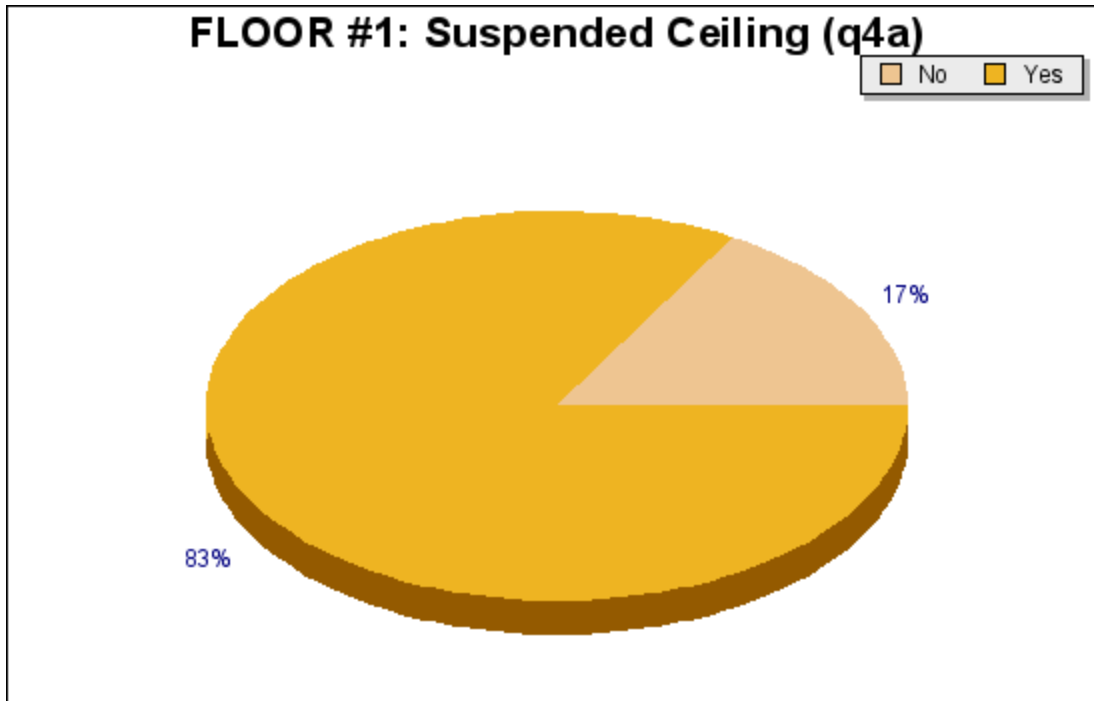
Question q3cft: FLOOR #3: Floor-Ceiling (Feet)



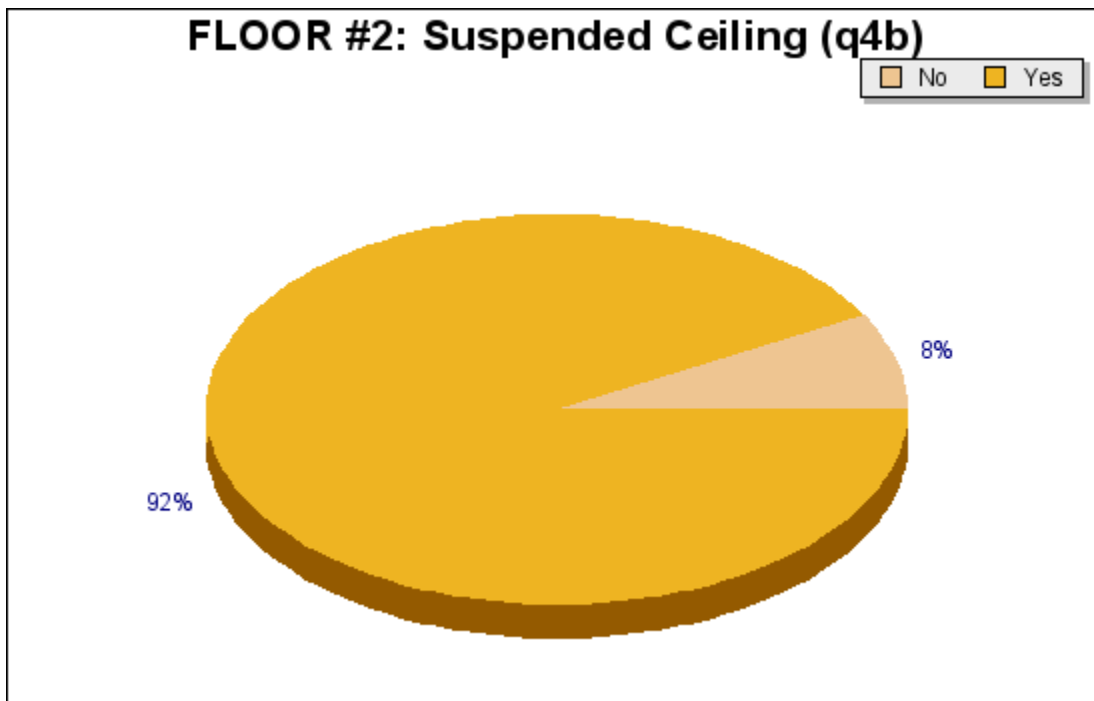
Question q3cin: FLOOR #3: Floor-Ceiling (Inches)



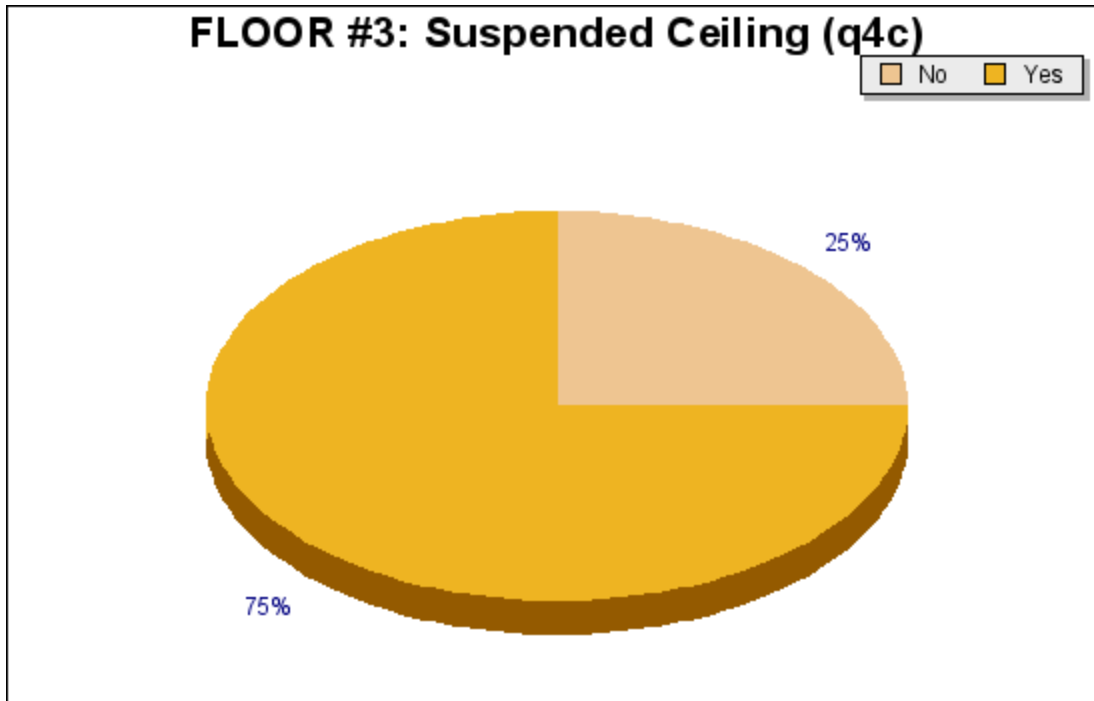
Question q3ctot: FLOOR #3: Floor-Ceiling (TOTAL Inches)



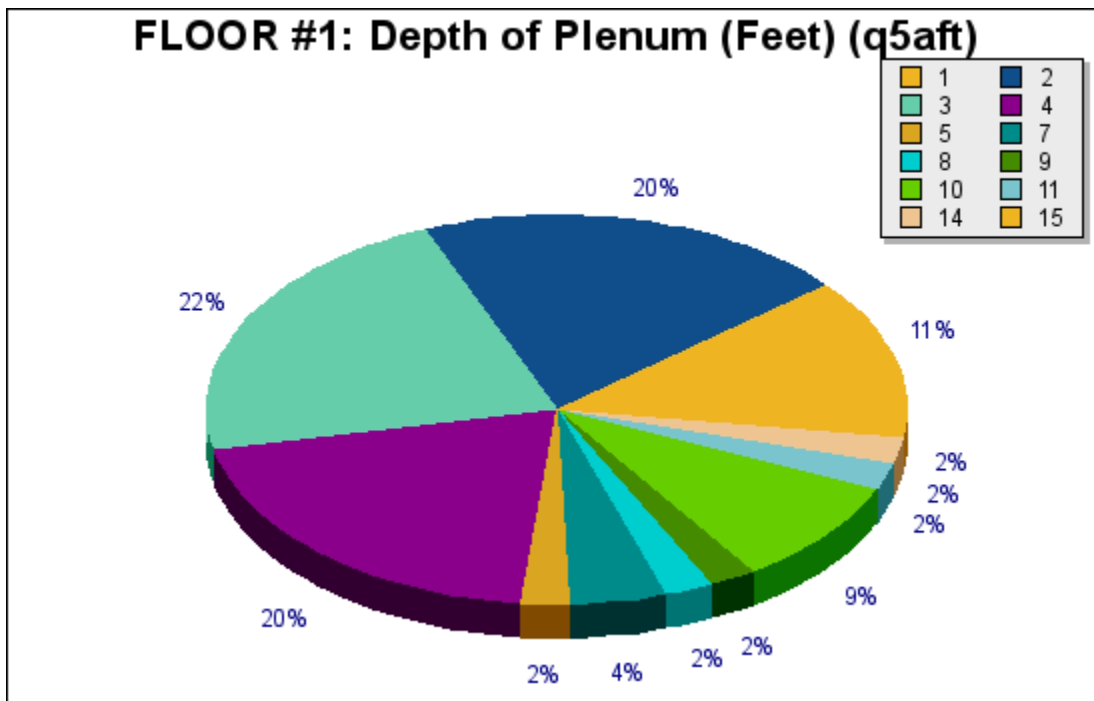
Question q4a: FLOOR #1: Suspended Ceiling



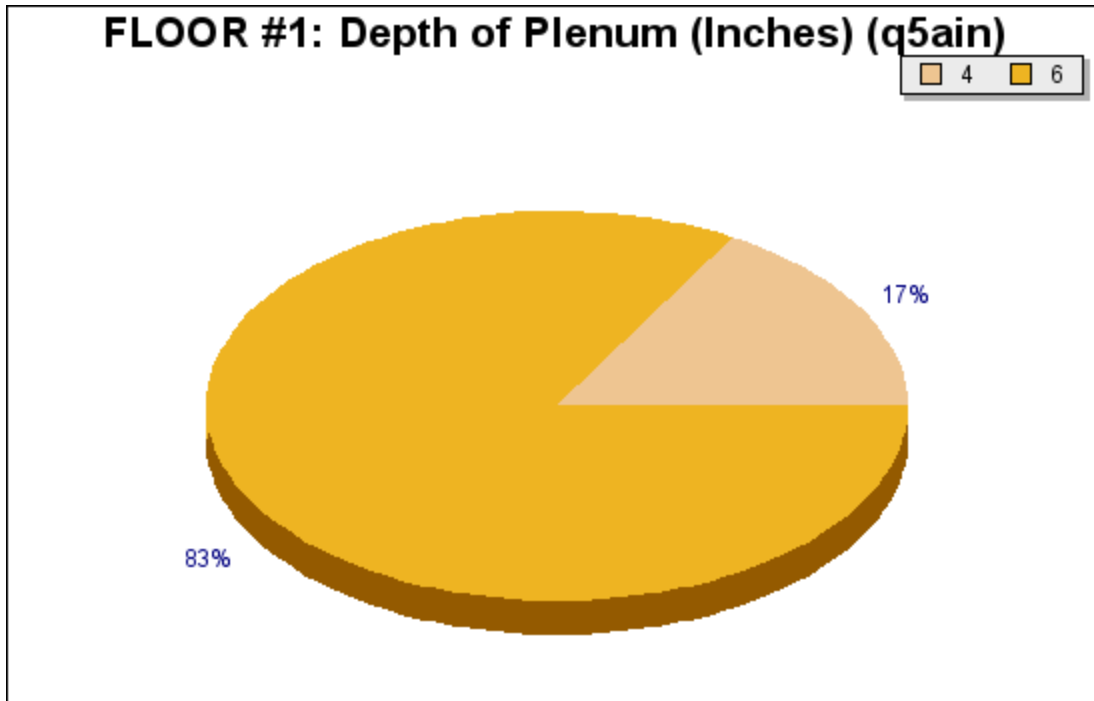
Question q4b: FLOOR #2: Suspended Ceiling



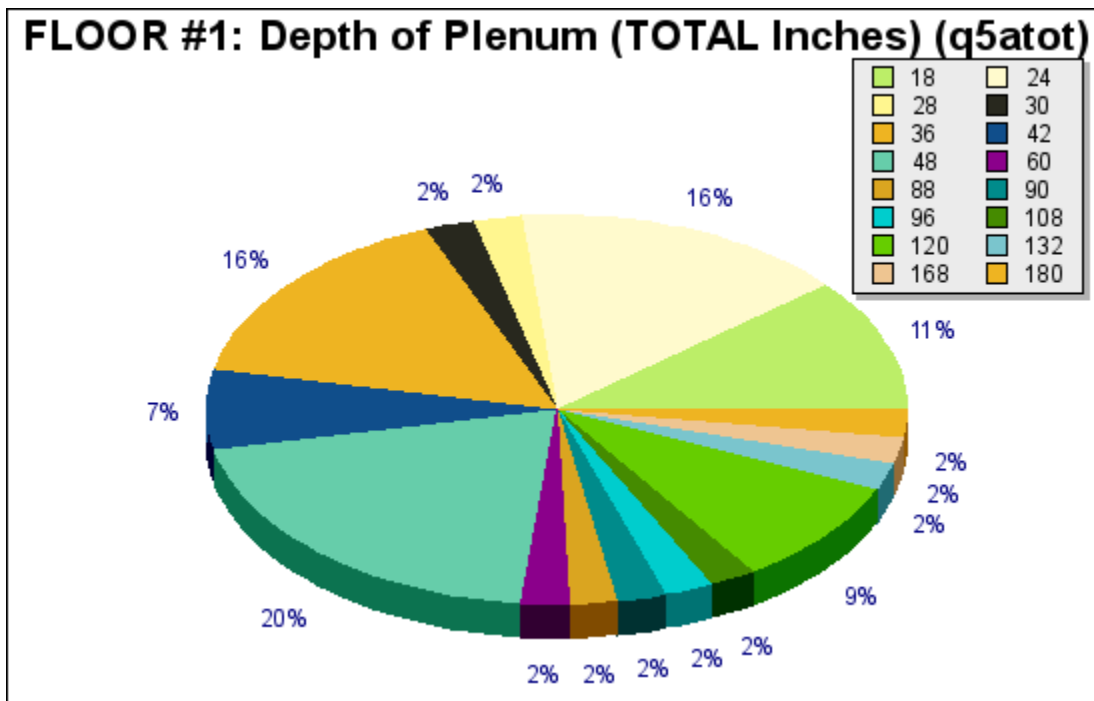
Question q4c: FLOOR #3: Suspended Ceiling



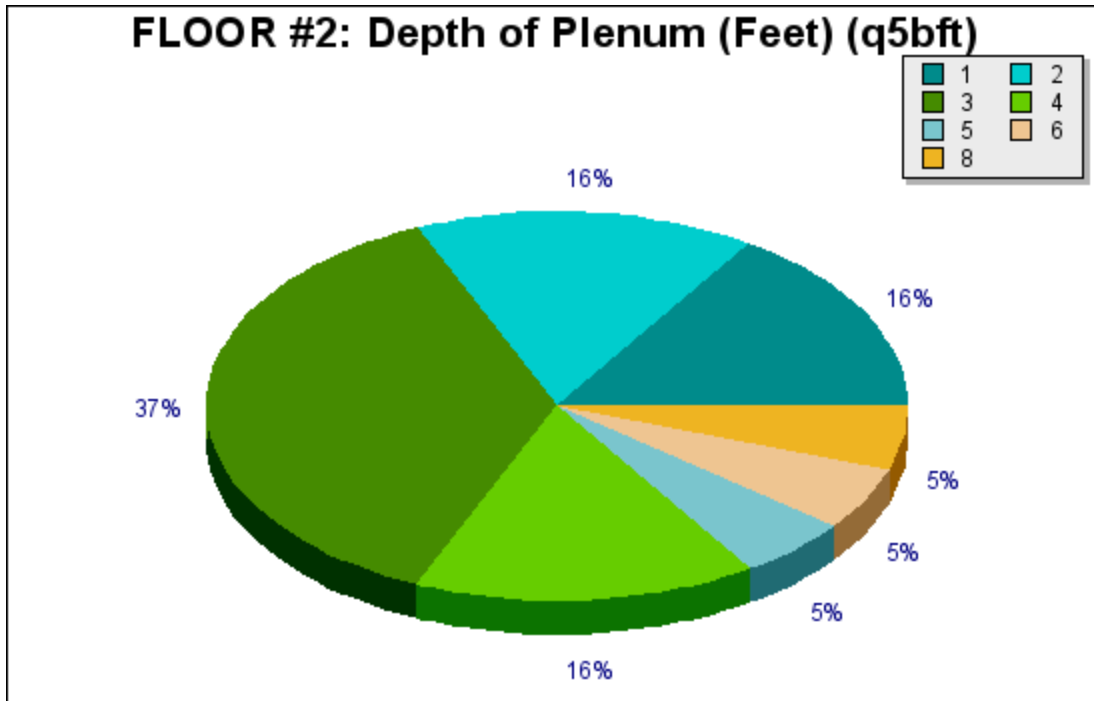
Question q5aft: FLOOR #1: Depth of Plenum (Feet)



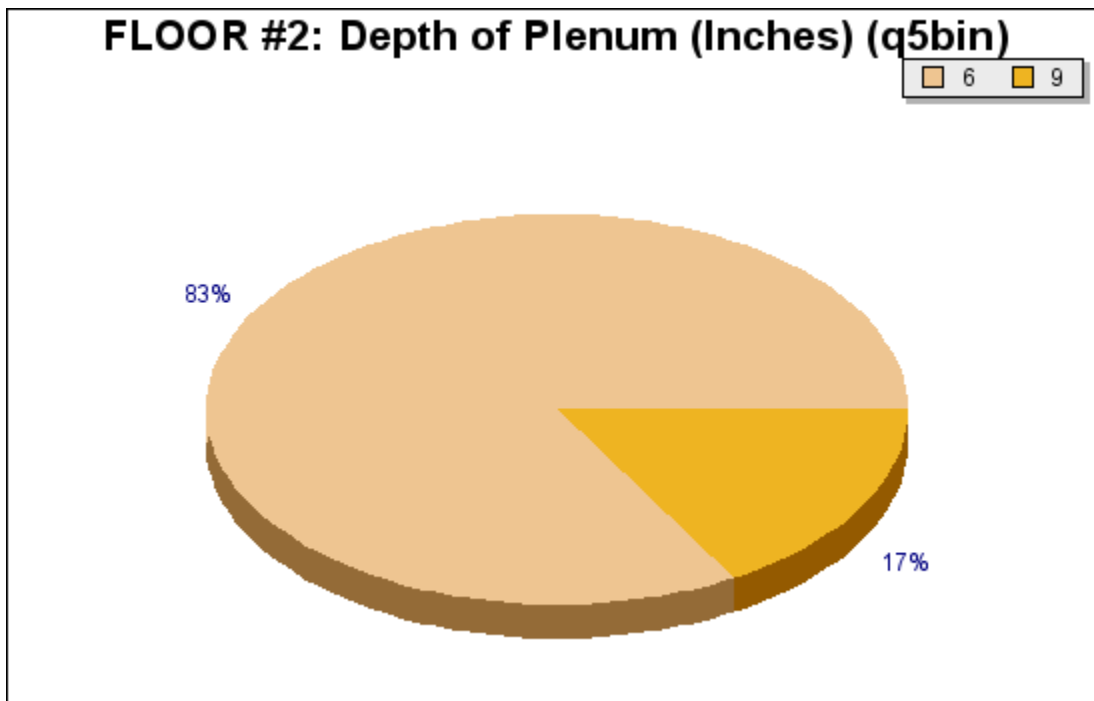
Question q5ain: FLOOR #1: Depth of Plenum (Inches)



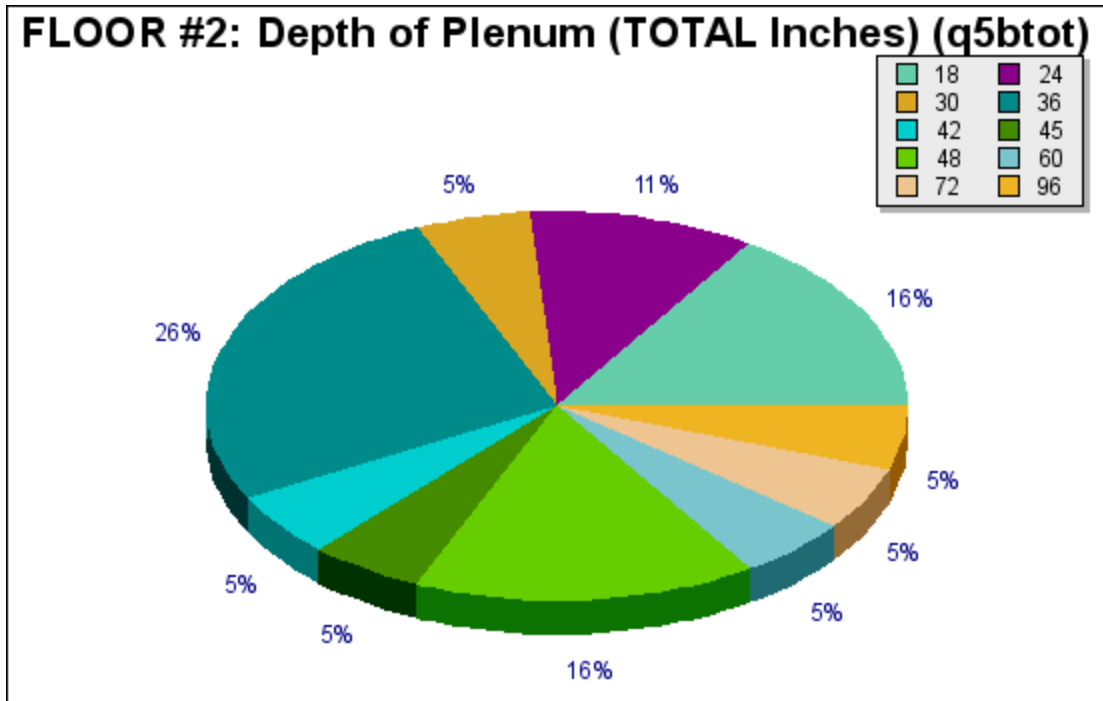
Question q5atot: FLOOR #1: Depth of Plenum (TOTAL Inches)



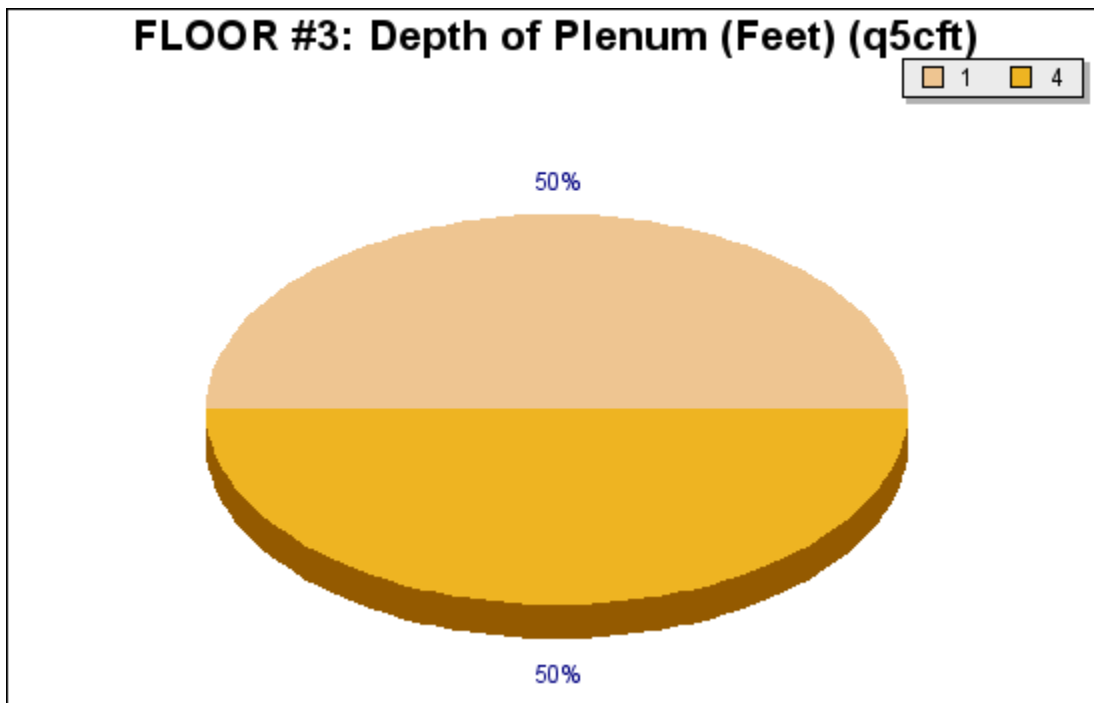
Question q5bft: FLOOR #2: Depth of Plenum (Feet)



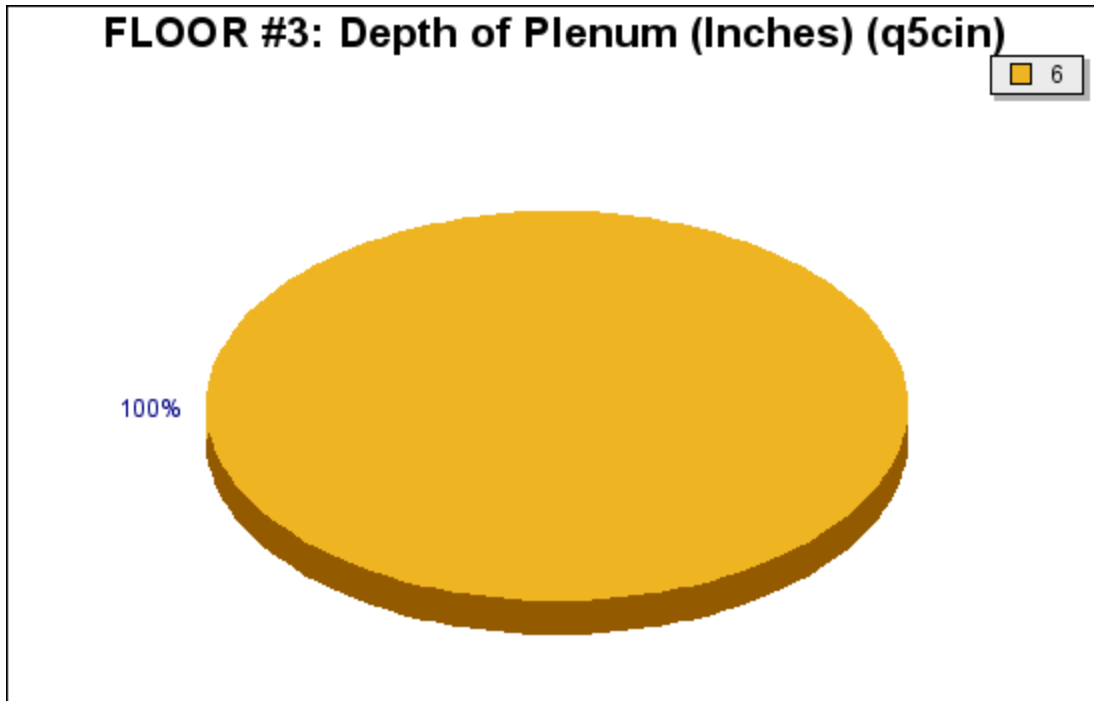
Question q5bin: FLOOR #2: Depth of Plenum (Inches)



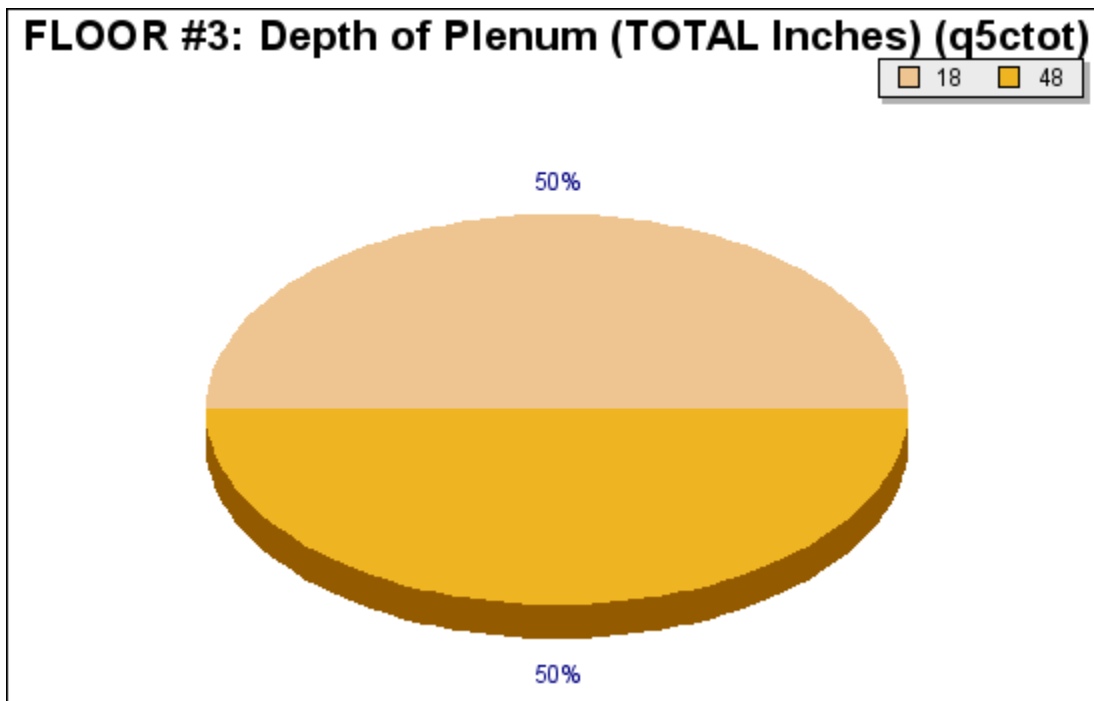
Question q5btot: FLOOR #2: Depth of Plenum (TOTAL Inches)



Question q5cft: FLOOR #3: Depth of Plenum (Feet)

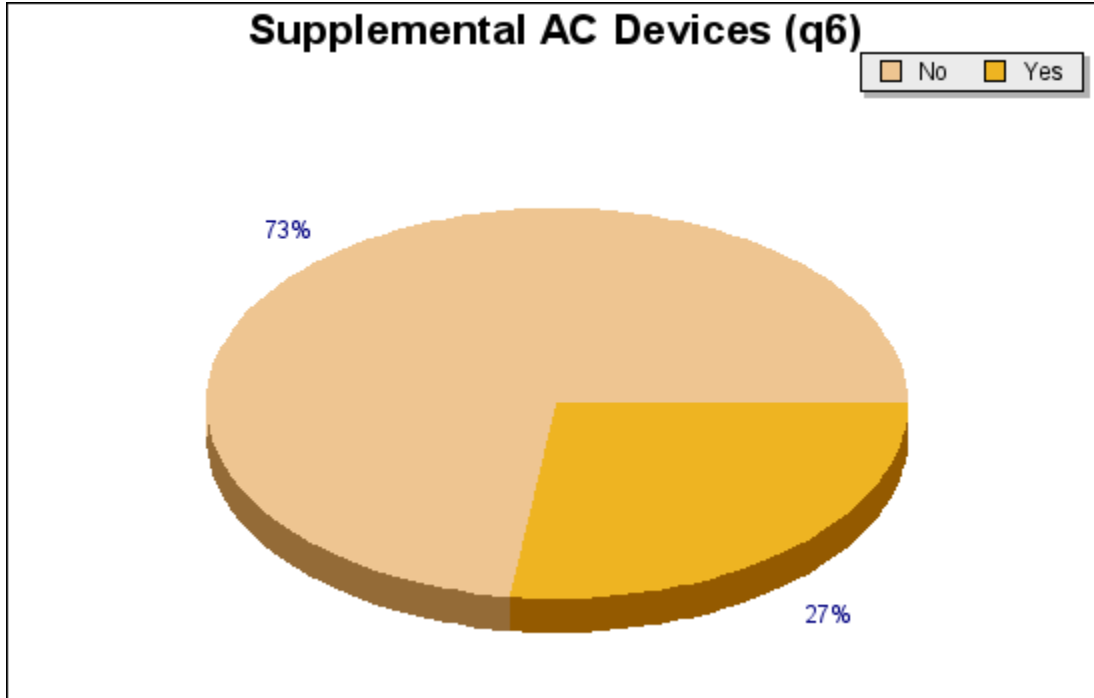


Question q5cin: FLOOR #3: Depth of Plenum (Inches)

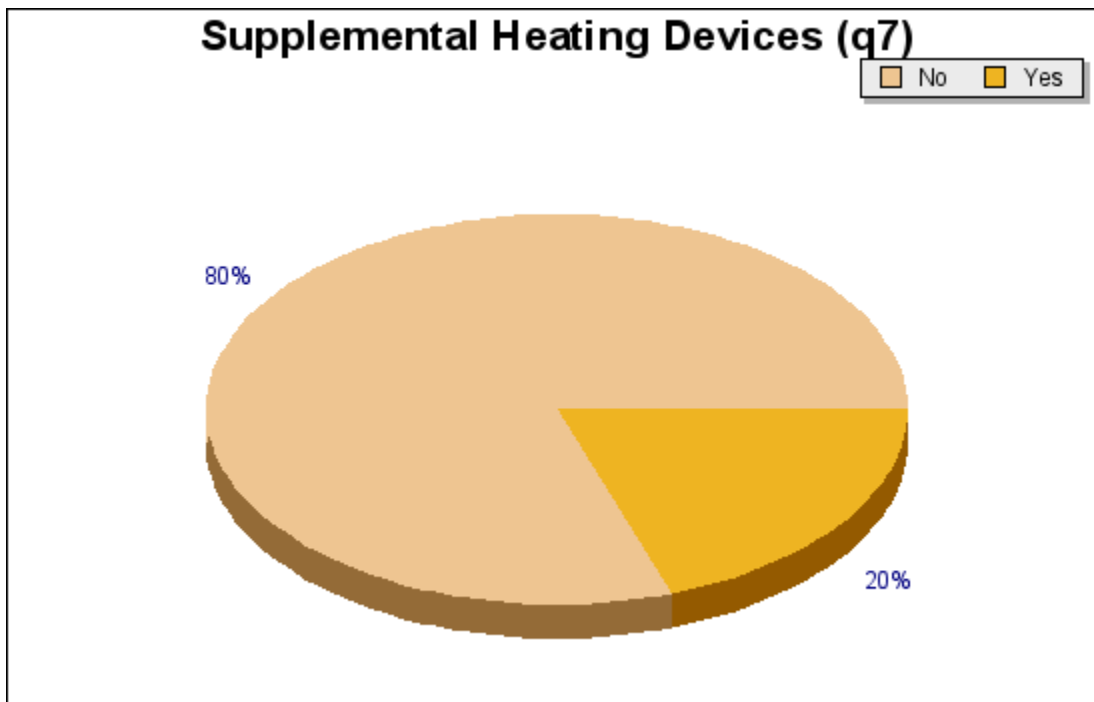


Question q5ctot: FLOOR #3: Depth of Plenum (TOTAL Inches)

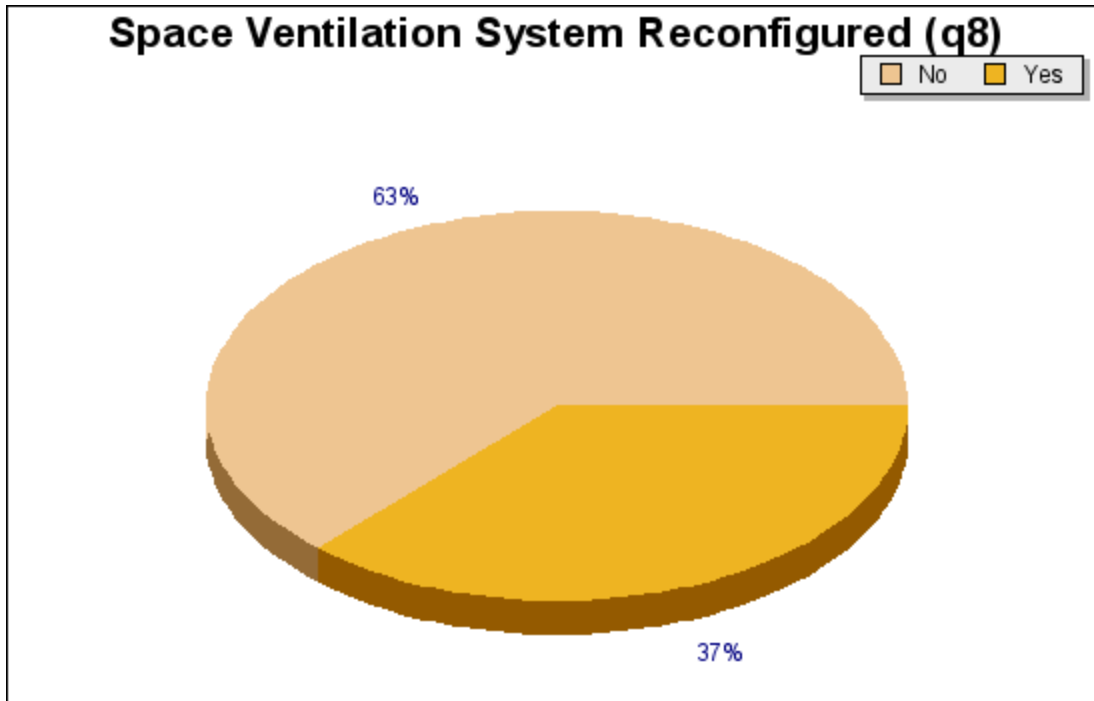
Building Equipment



Question q6: Supplemental AC Devices

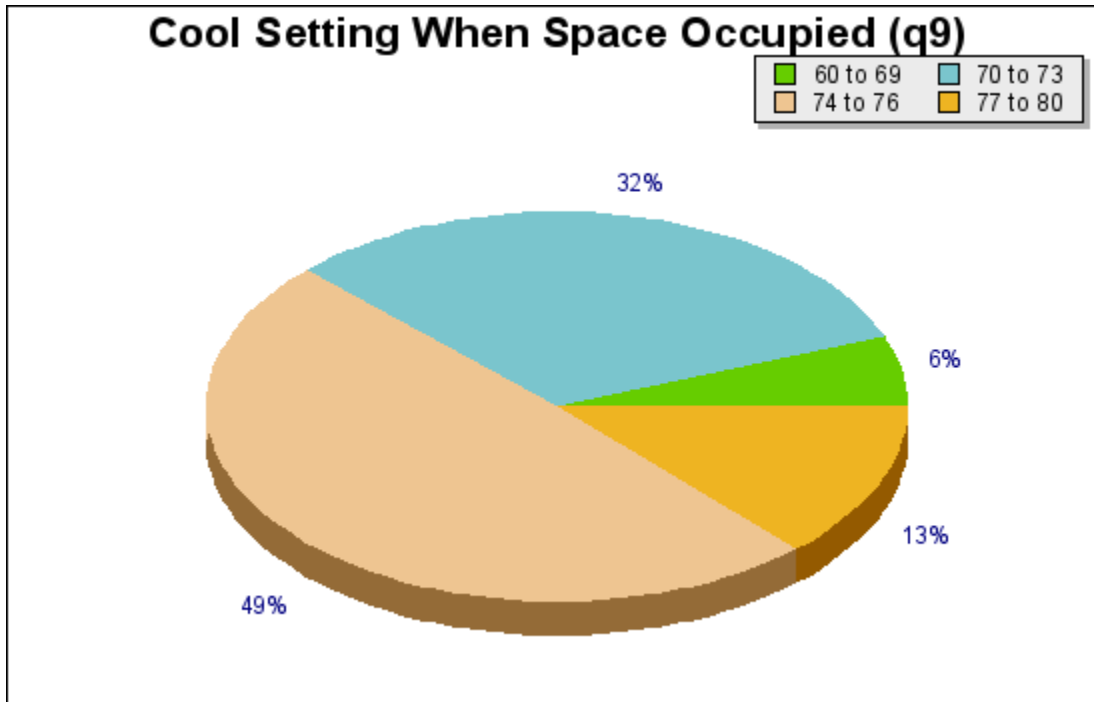


Question q7: Supplemental Heating Devices

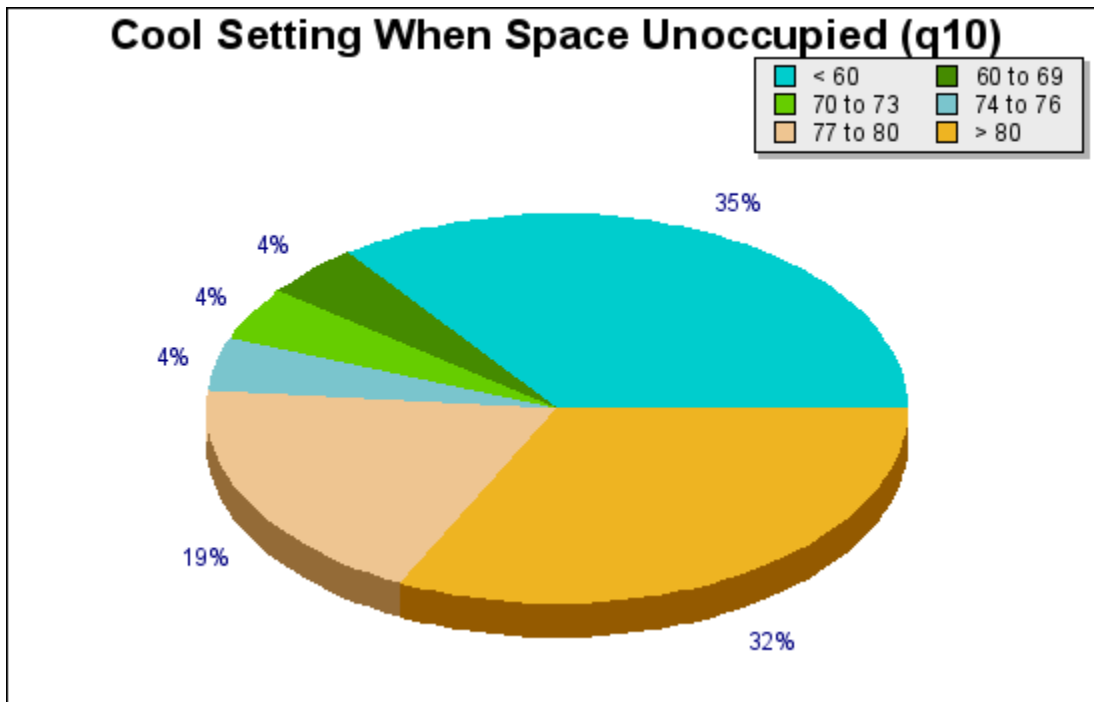


Question q8: Space Ventilation System Reconfigured

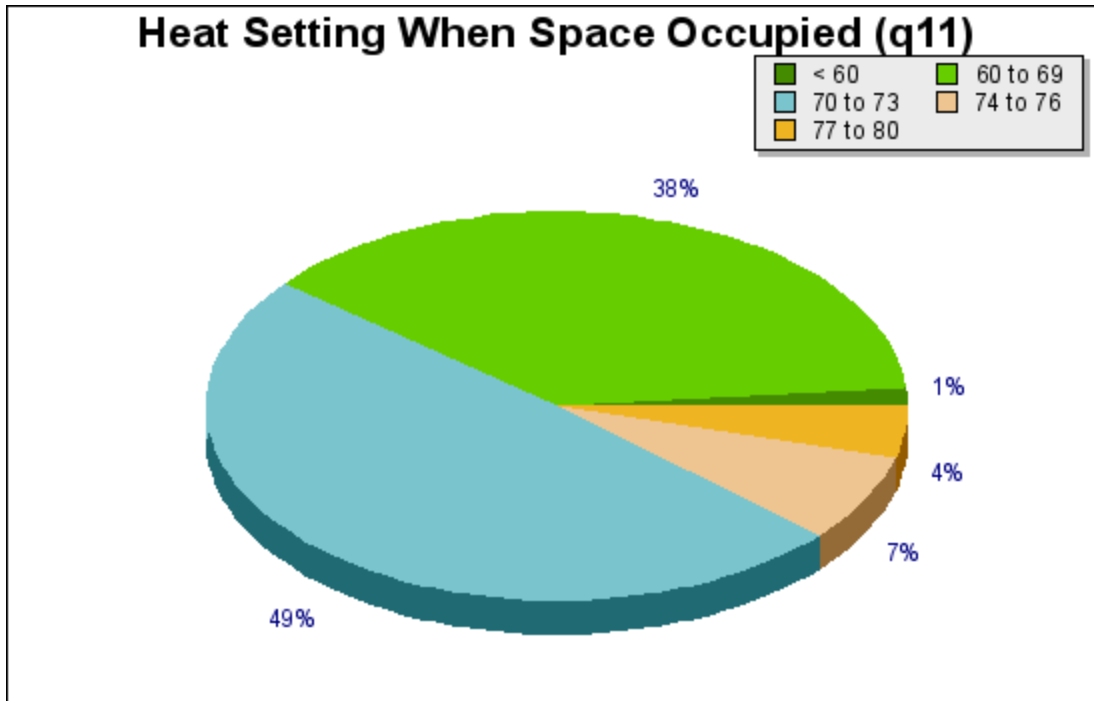
HVAC Operating Schedule



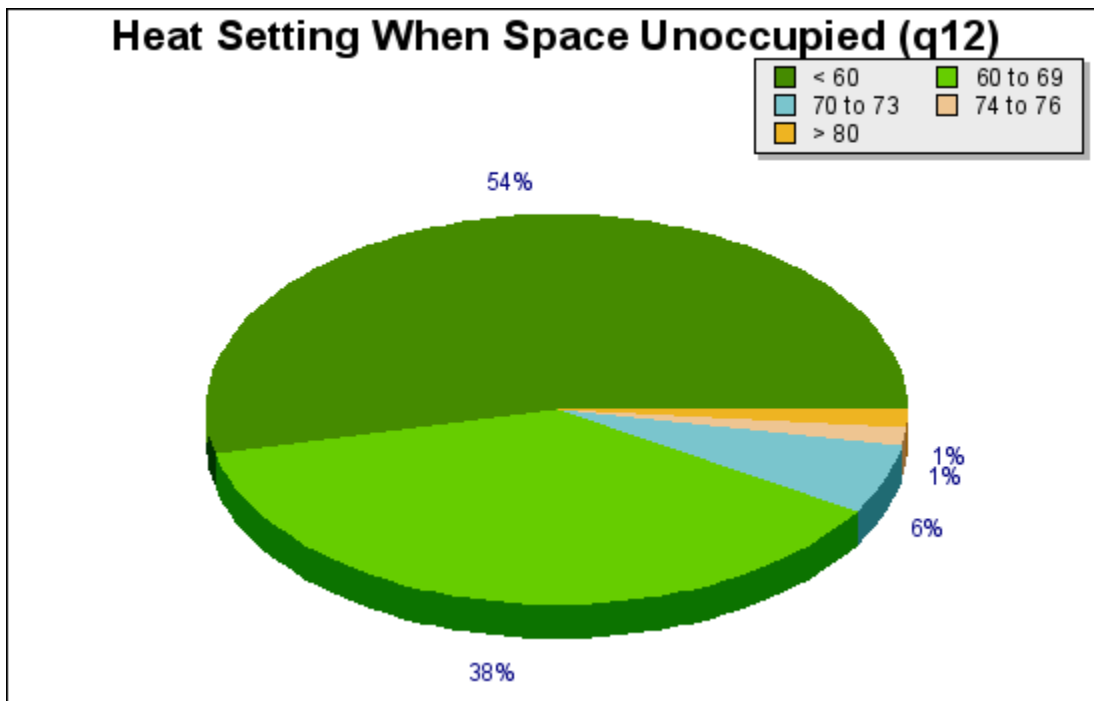
Question q9: Cool Setting When Space Occupied



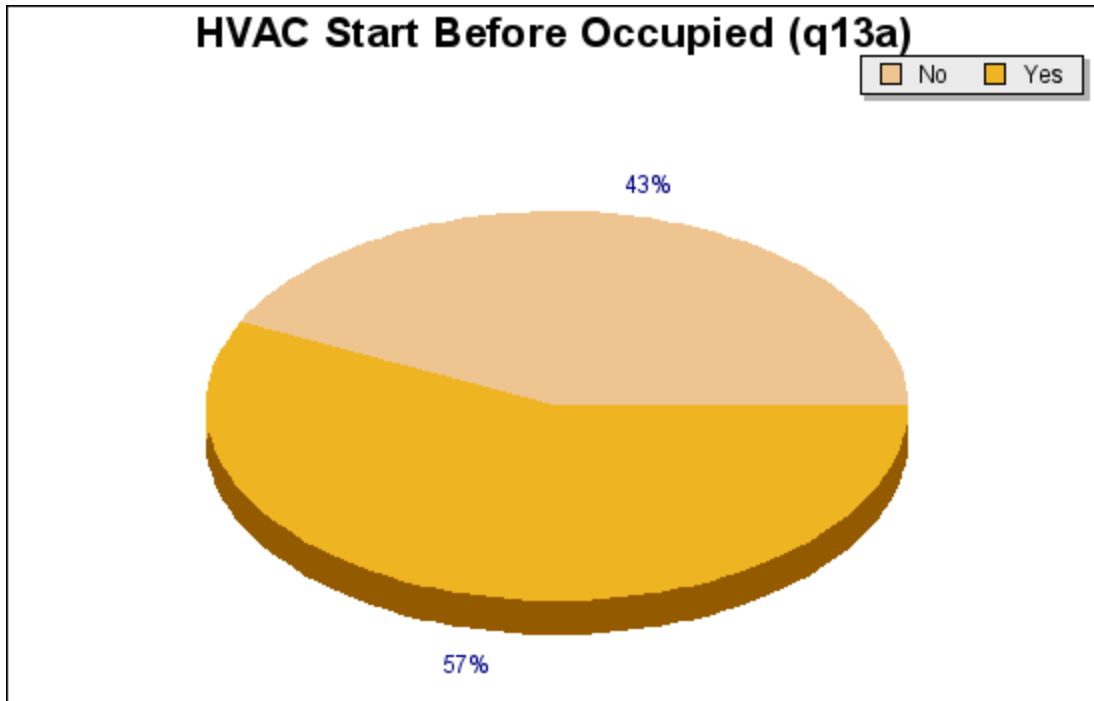
Question q10: Cool Setting When Space Unoccupied



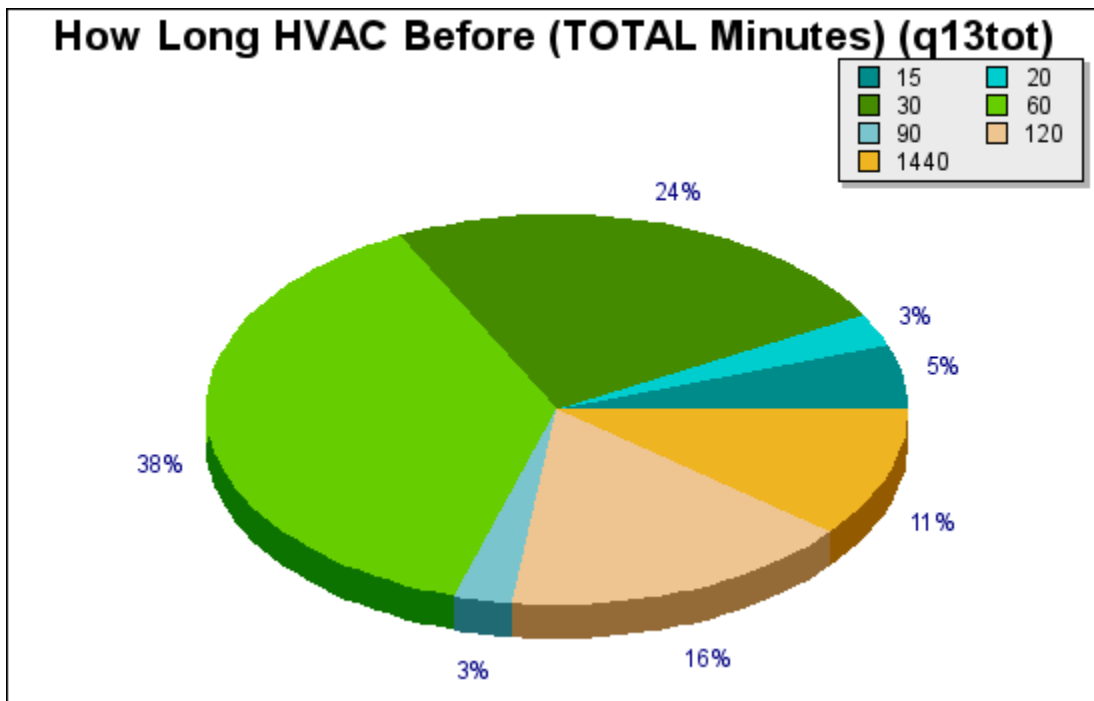
Question q11: Heat Setting When Space Occupied



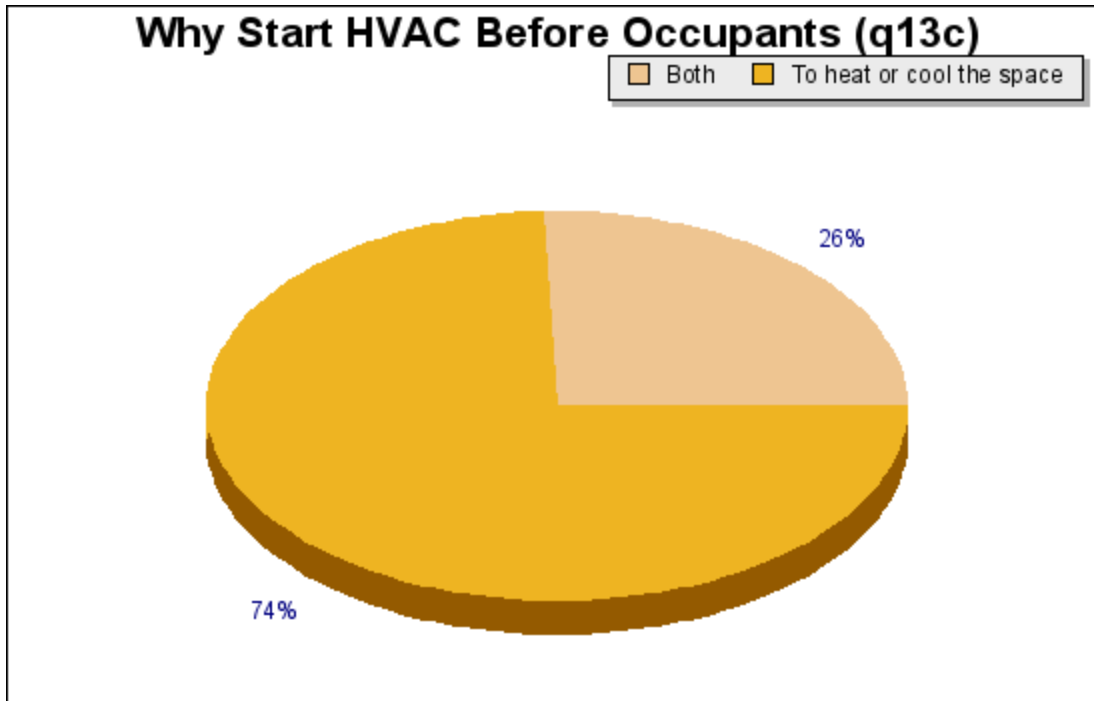
Question q12: Heat Setting When Space Unoccupied



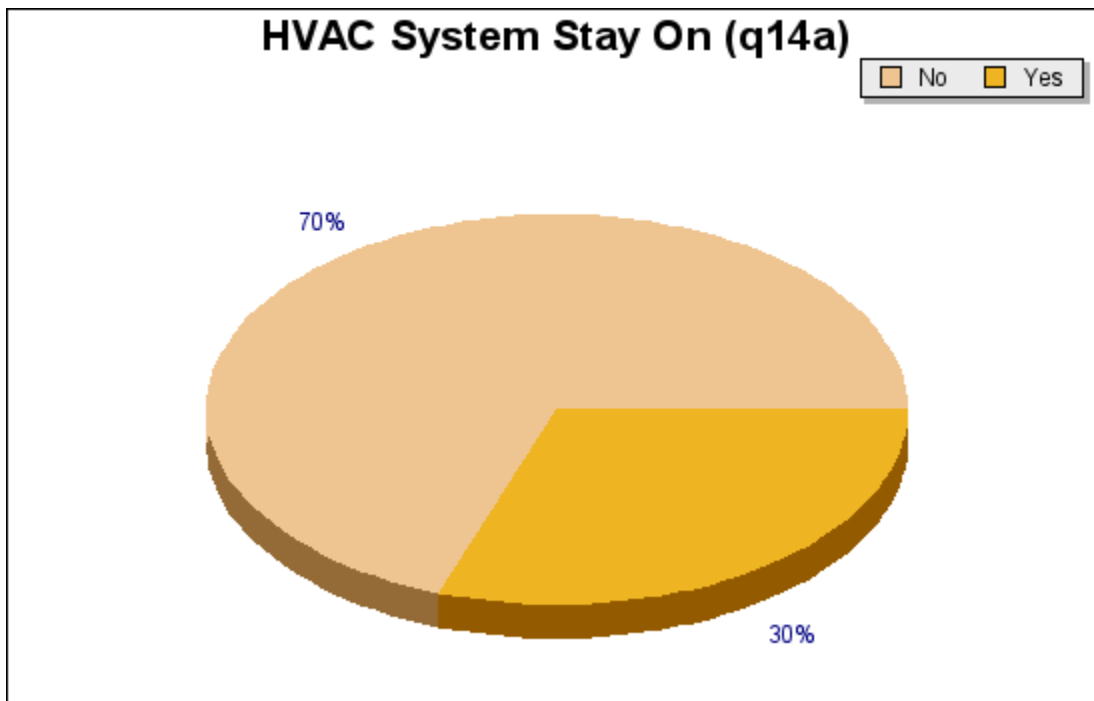
Question q13a: HVAC Start Before Occupied



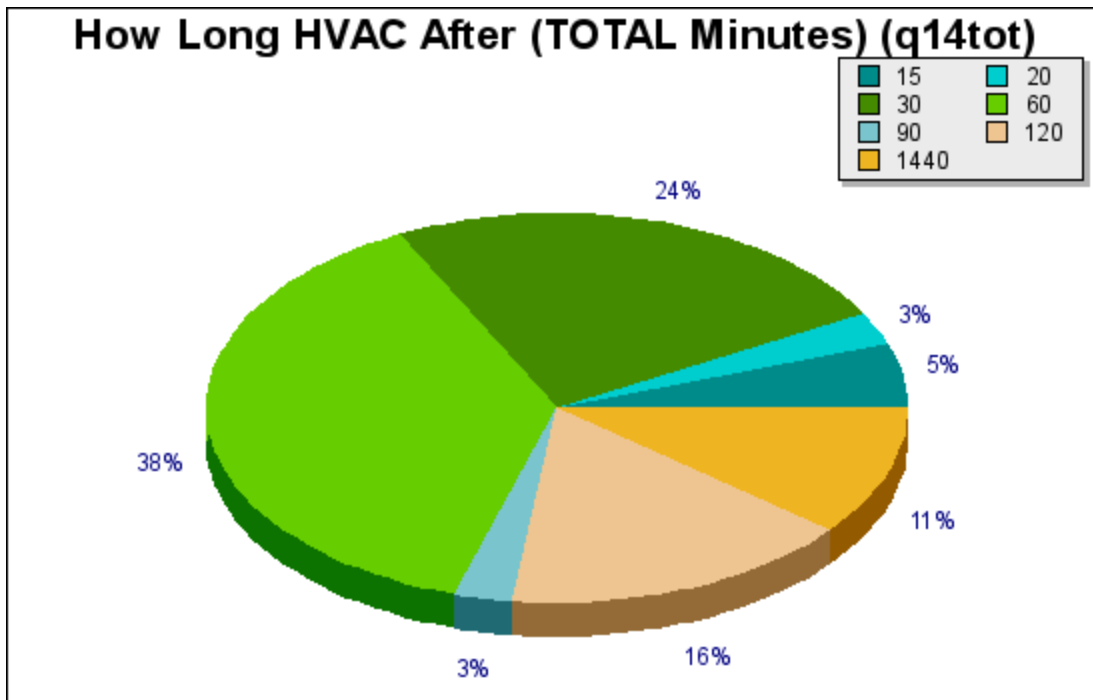
Question q13tot: How Long HVAC Before (TOTAL Minutes)



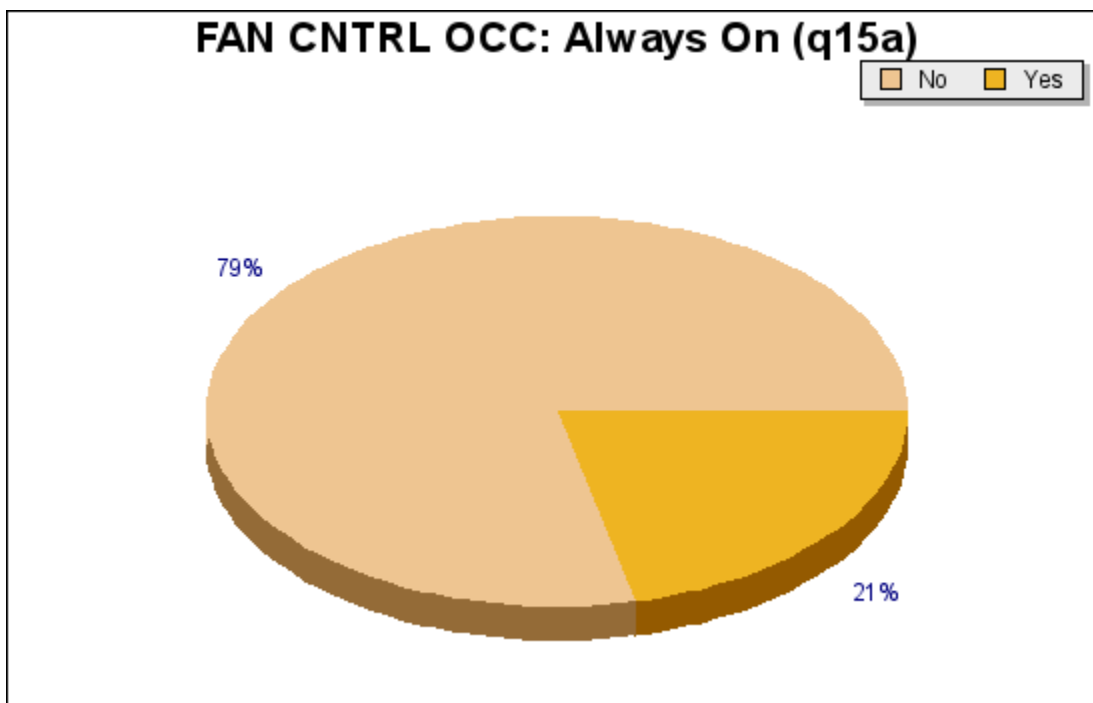
Question q13c: Why Start HVAC Before Occupants



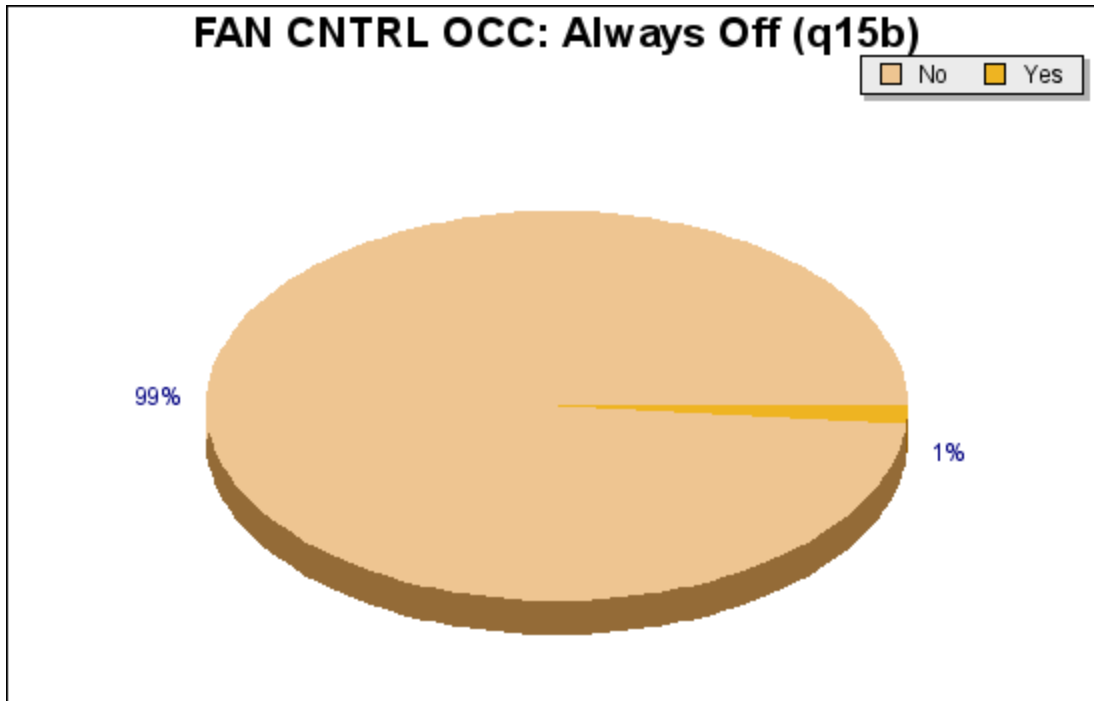
Question q14a: HVAC System Stay On



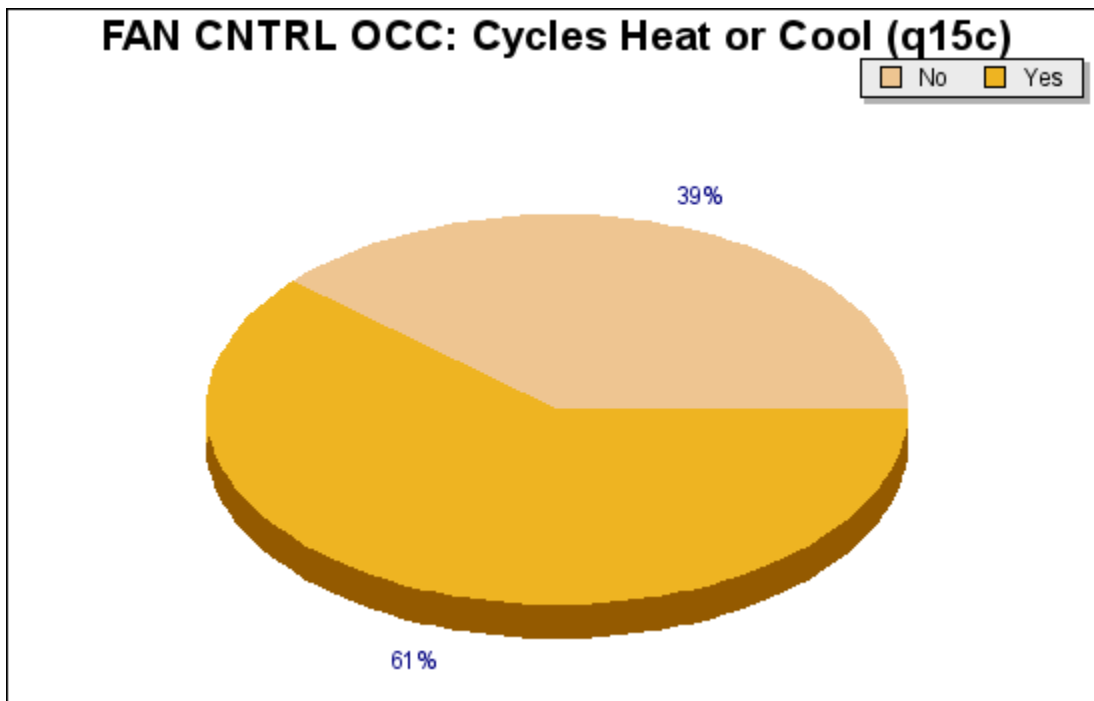
Question q14tot: How Long HVAC After (TOTAL Minutes)



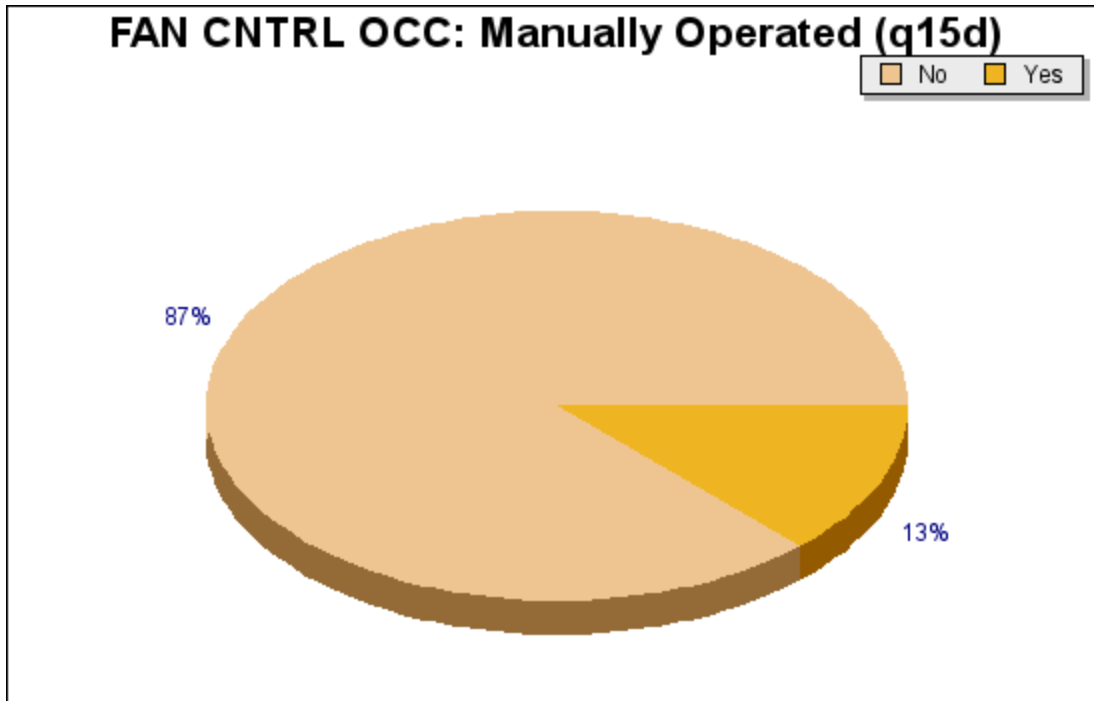
Question q15a: FAN CNTRL OCC: Always On



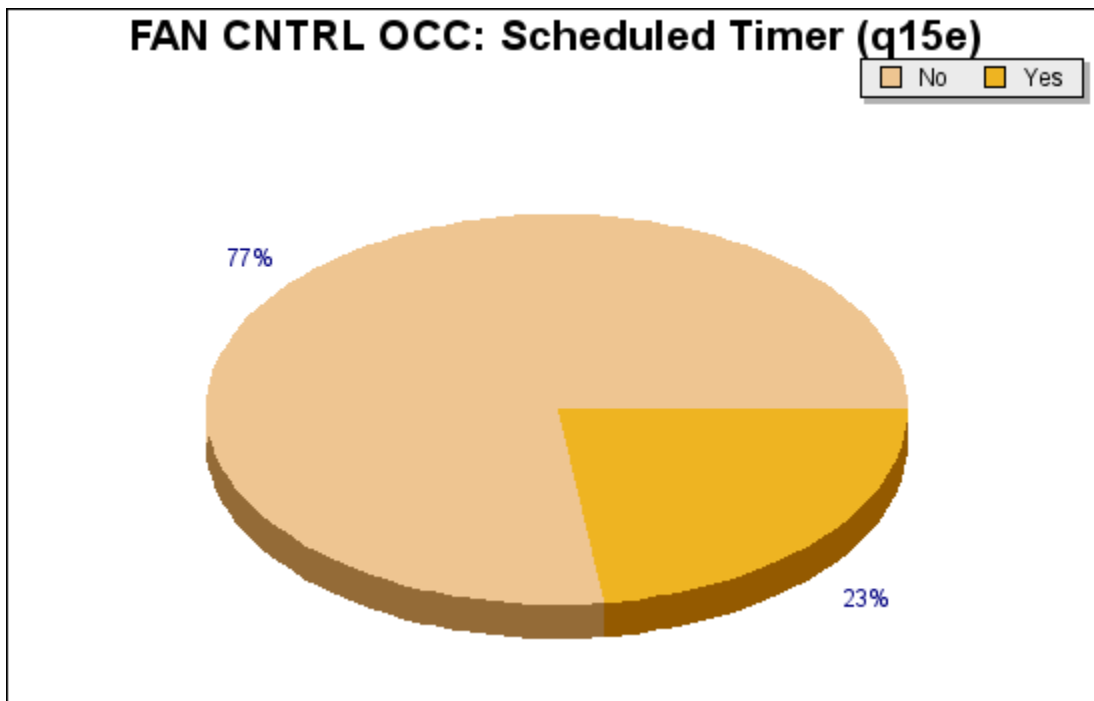
Question q15b: FAN CNTRL OCC: Always Off



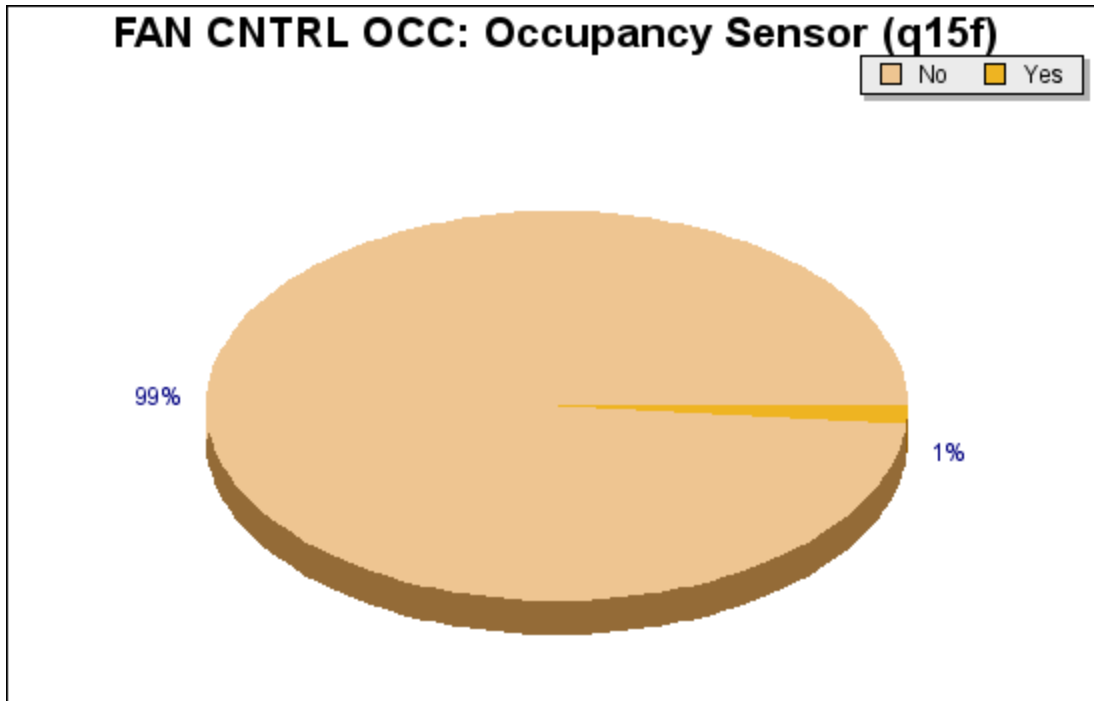
Question q15c: FAN CNTRL OCC: Cycles Heat or Cool



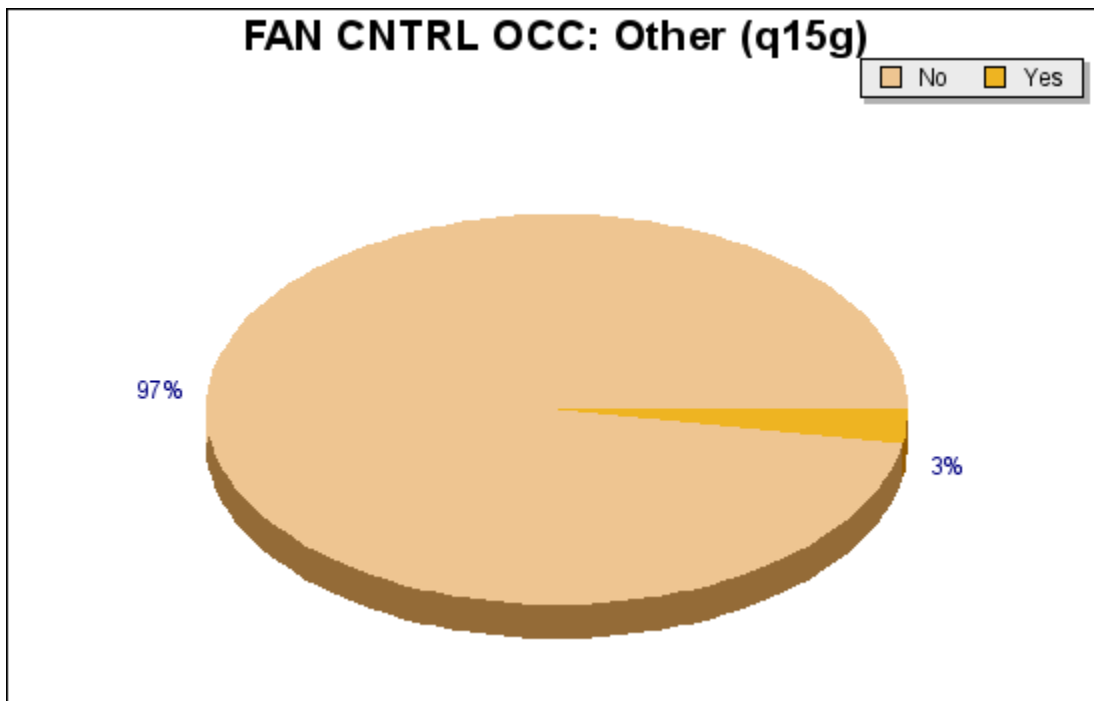
Question q15d: FAN CNTRL OCC: Manually Operated



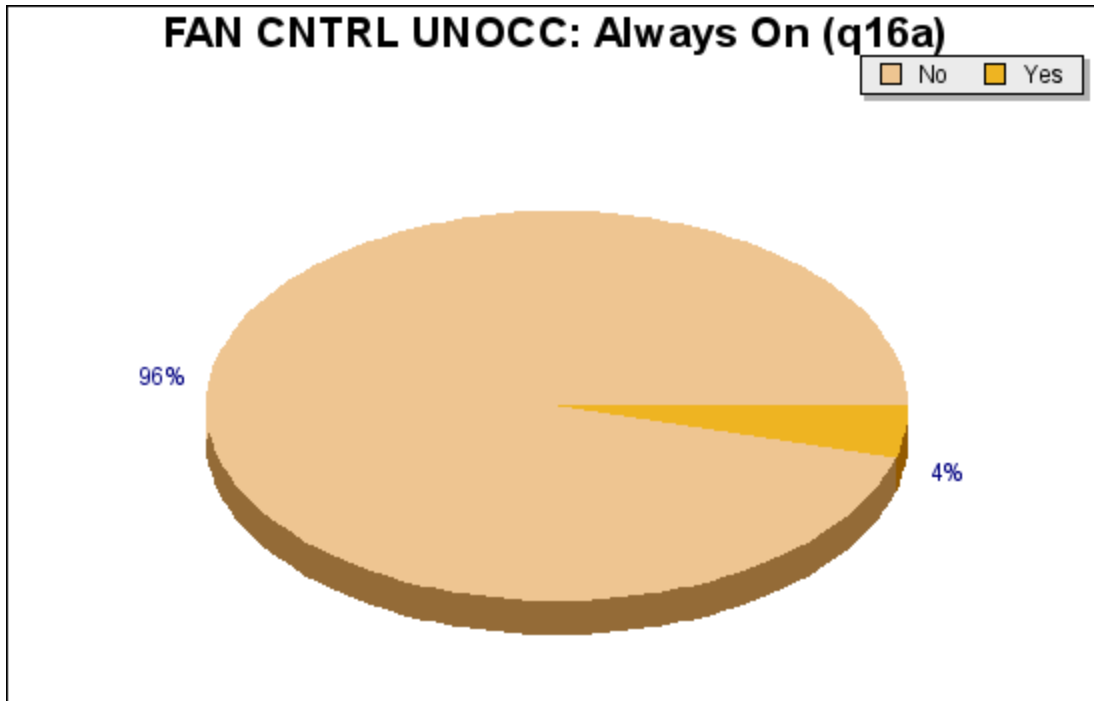
Question q15e: FAN CNTRL OCC: Scheduled Timer



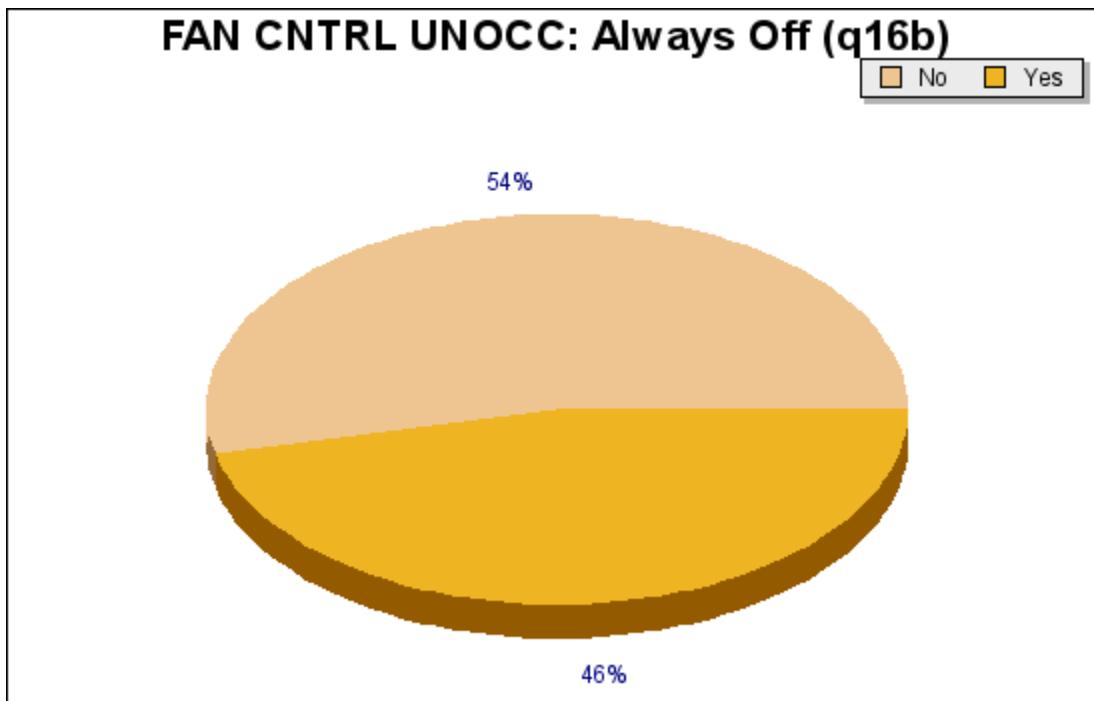
Question q15f: FAN CNTRL OCC: Occupancy Sensor



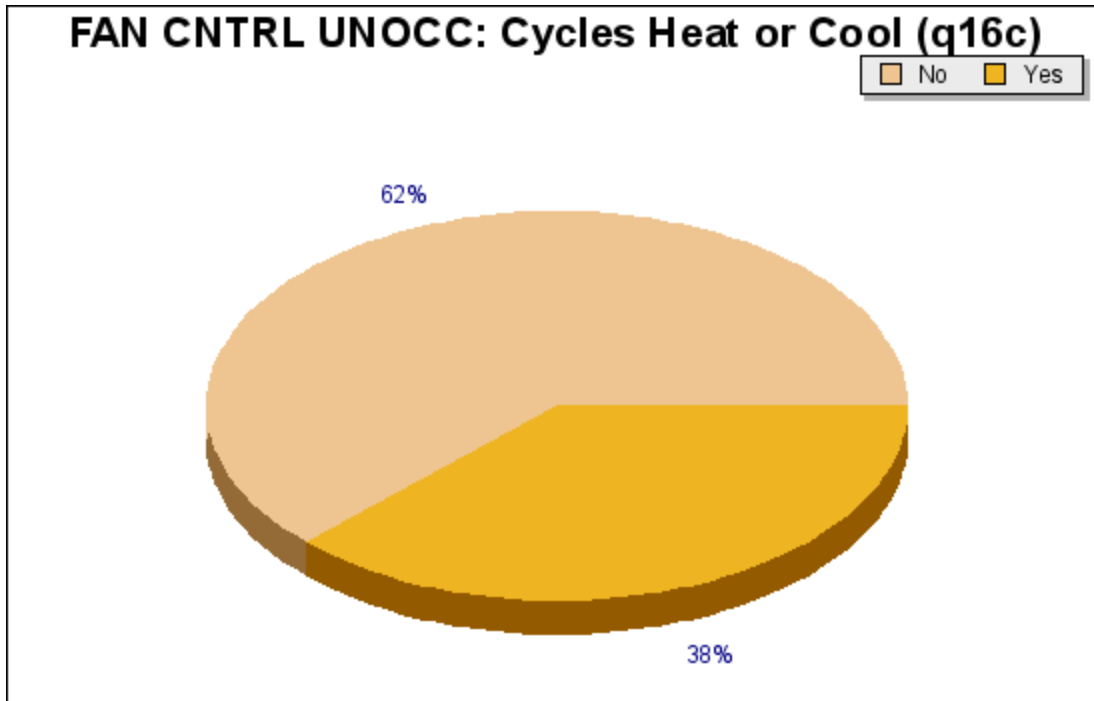
Question q15g: FAN CNTRL OCC: Other



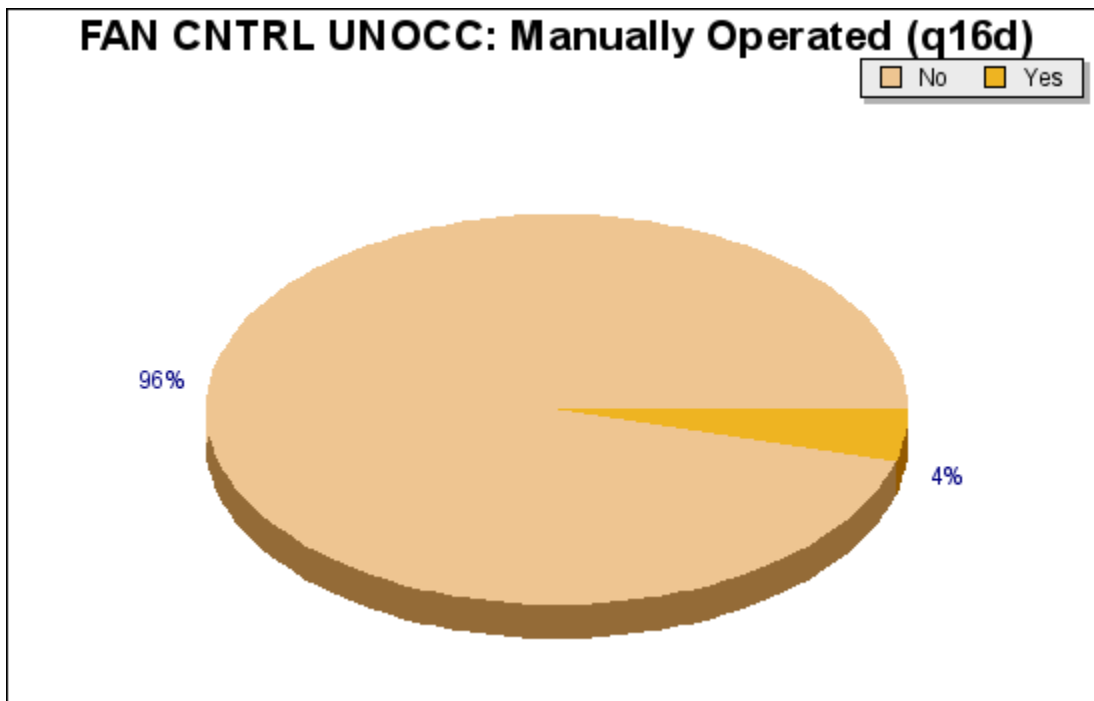
Question q16a: FAN CNTRL UNOCC: Always On



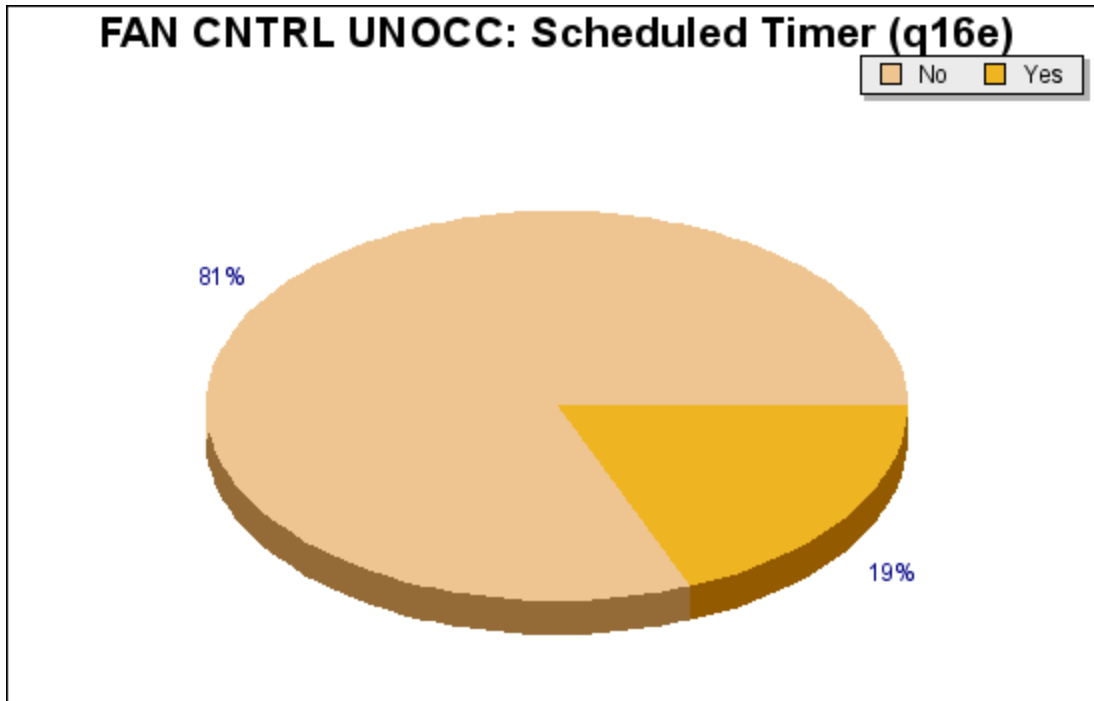
Question q16b: FAN CNTRL UNOCC: Always Off



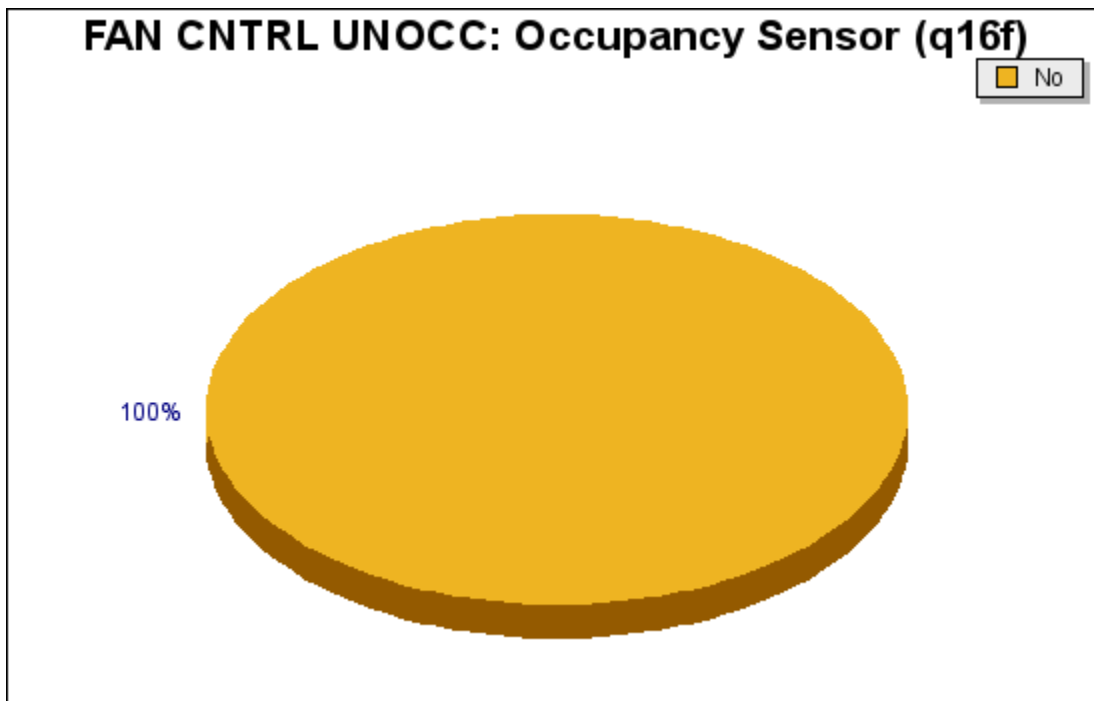
Question q16c: FAN CNTRL UNOCC: Cycles Heat or Cool



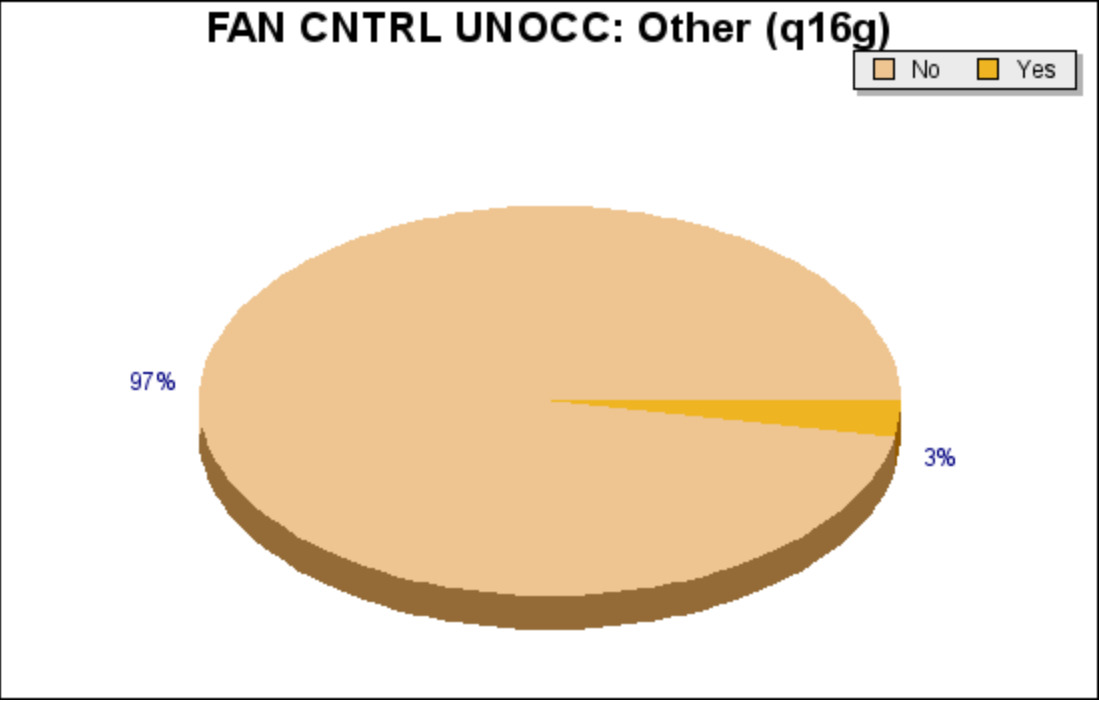
Question q16d: FAN CNTRL UNOCC: Manually Operated



Question q16e: FAN CNTRL UNOCC: Scheduled Timer

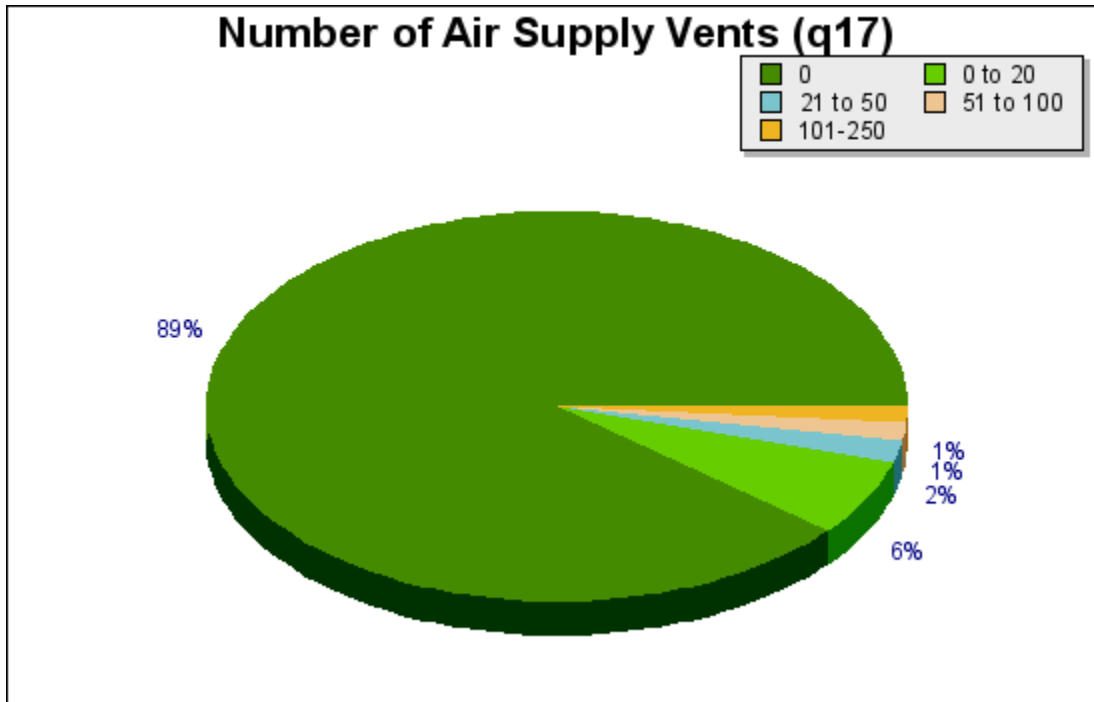


Question q16f: FAN CNTRL UNOCC: Occupancy Sensor

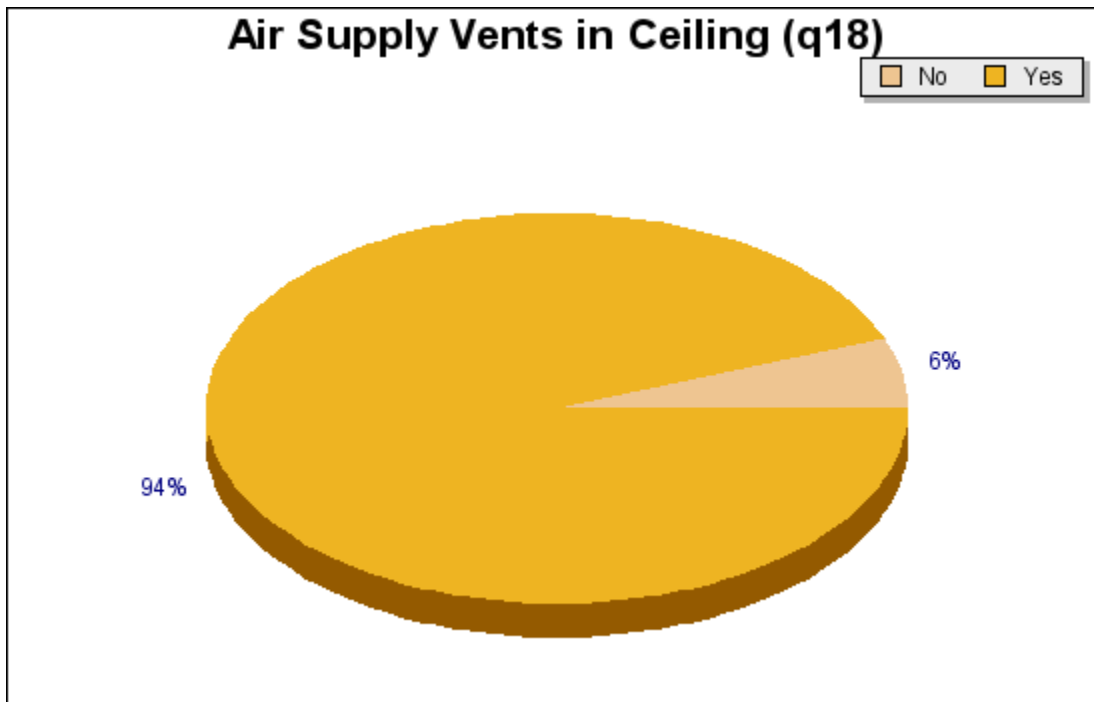


Question q16g: FAN CNTRL UNOCC: Other

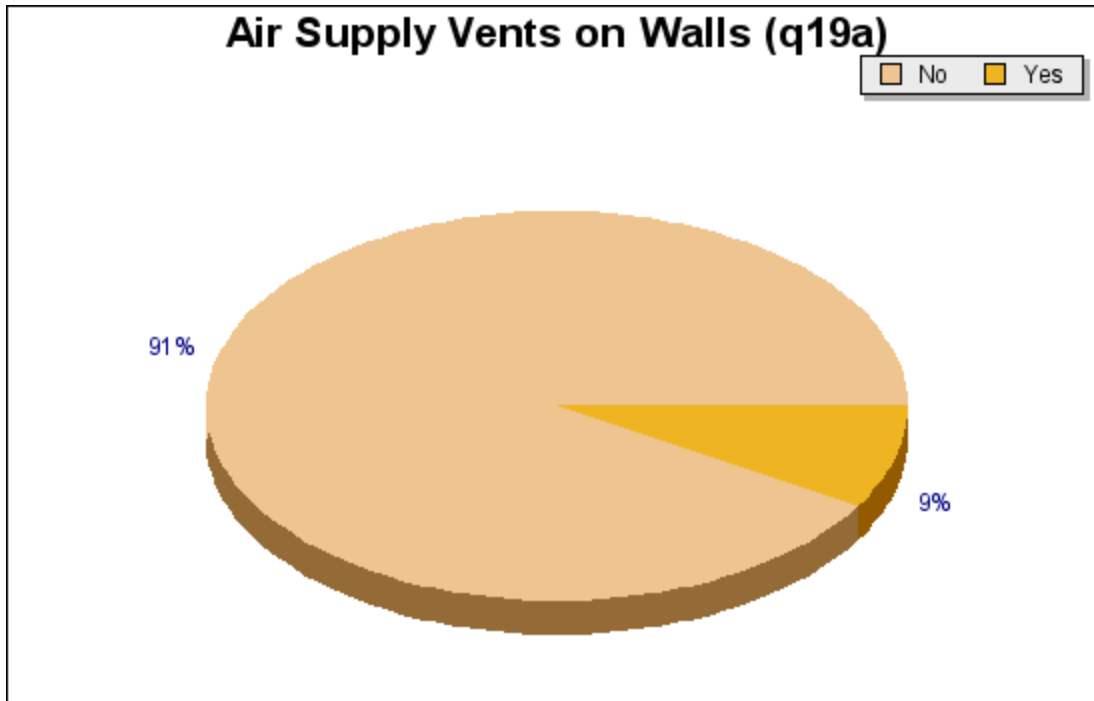
Indoor Ventilation Fixtures



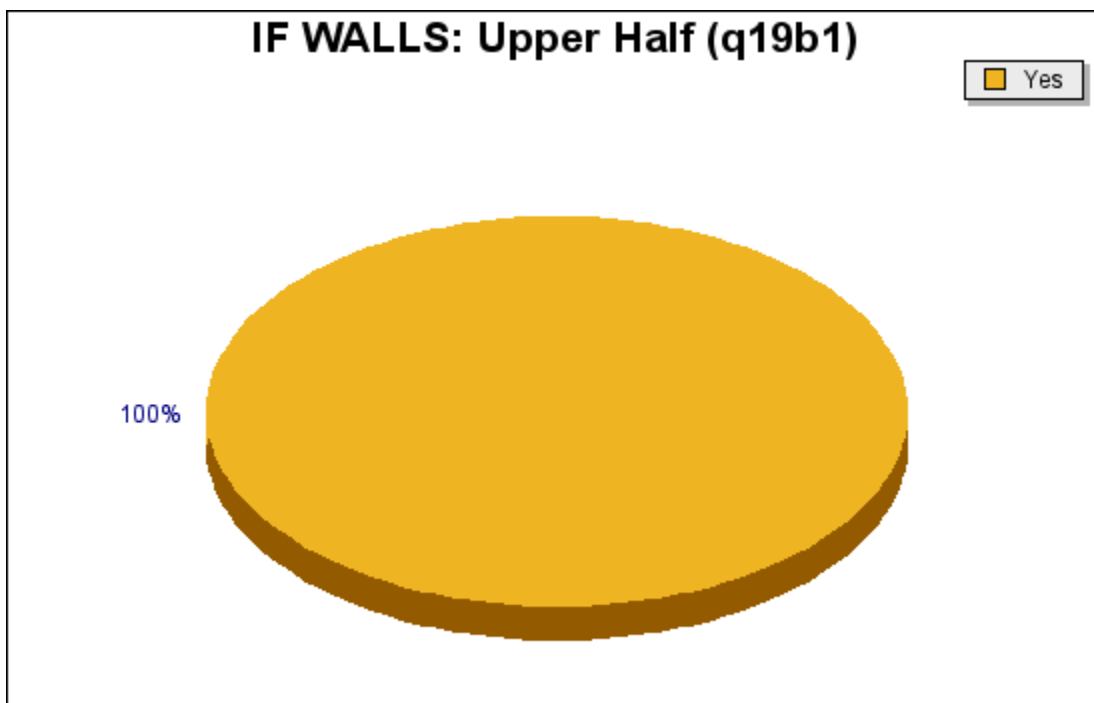
Question q17: Number of Air Supply Vents



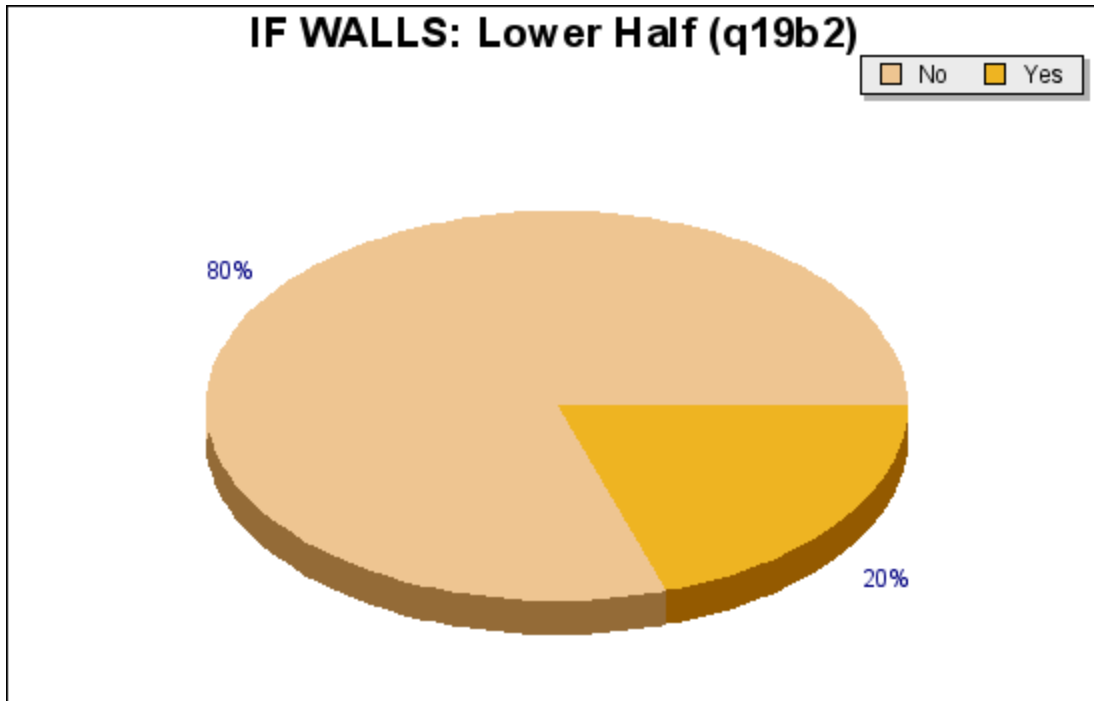
Question q18: Air Supply Vents in Ceiling



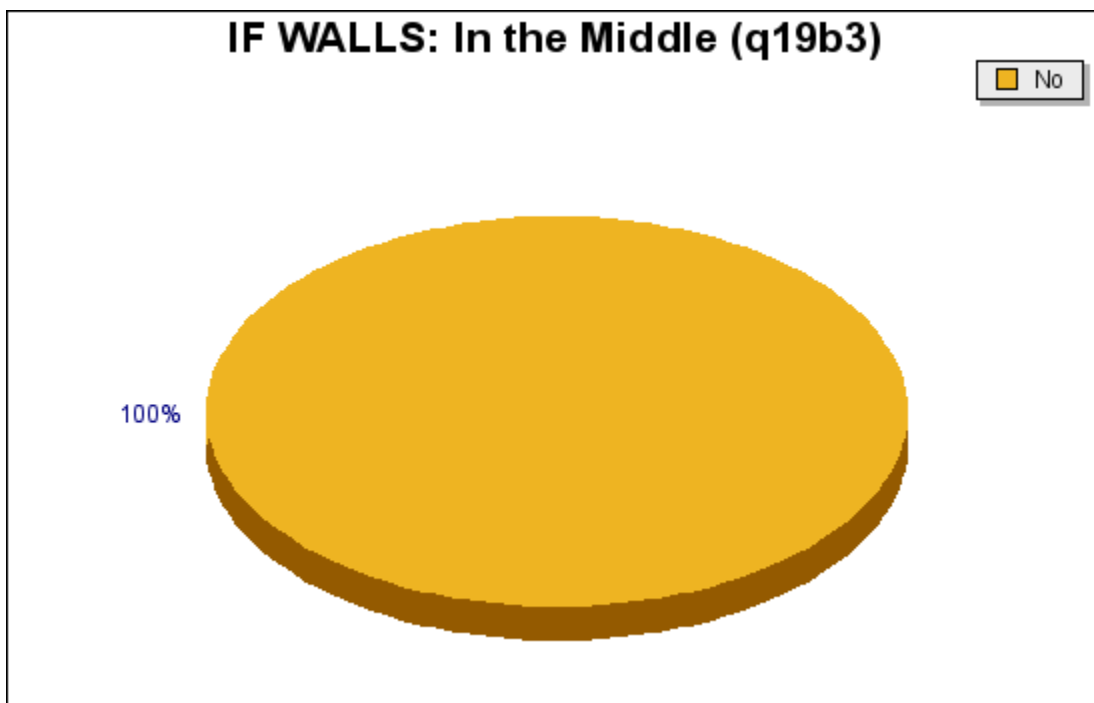
Question q19a: Air Supply Vents on Walls



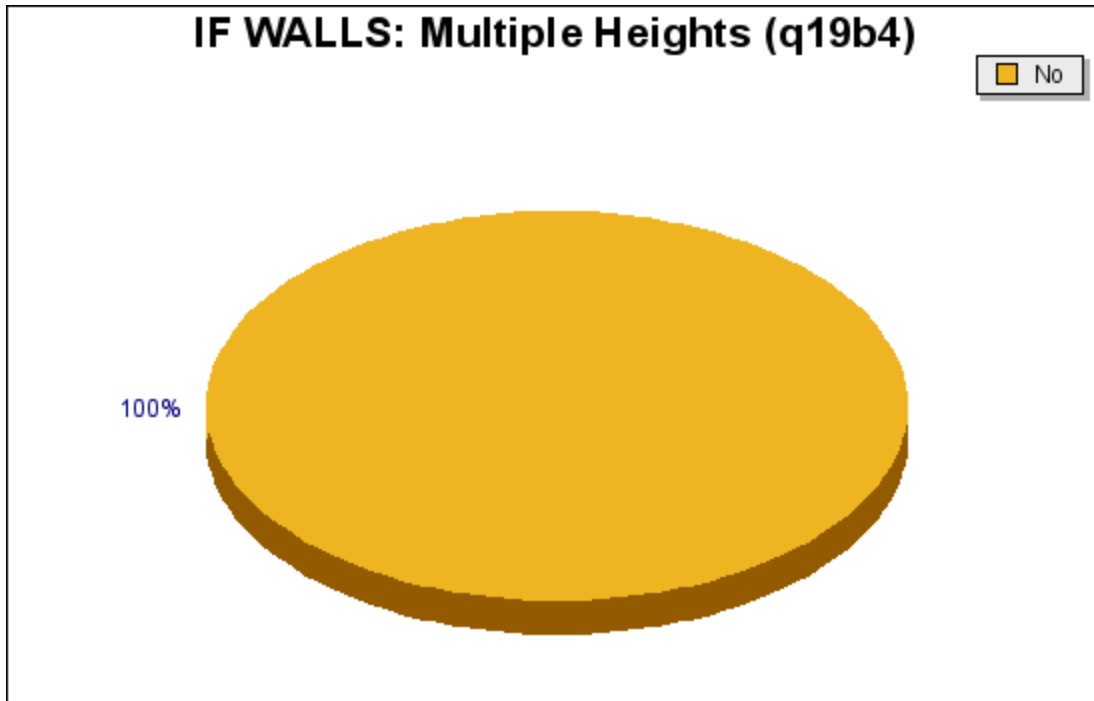
Question q19b1: IF WALLS: Upper Half



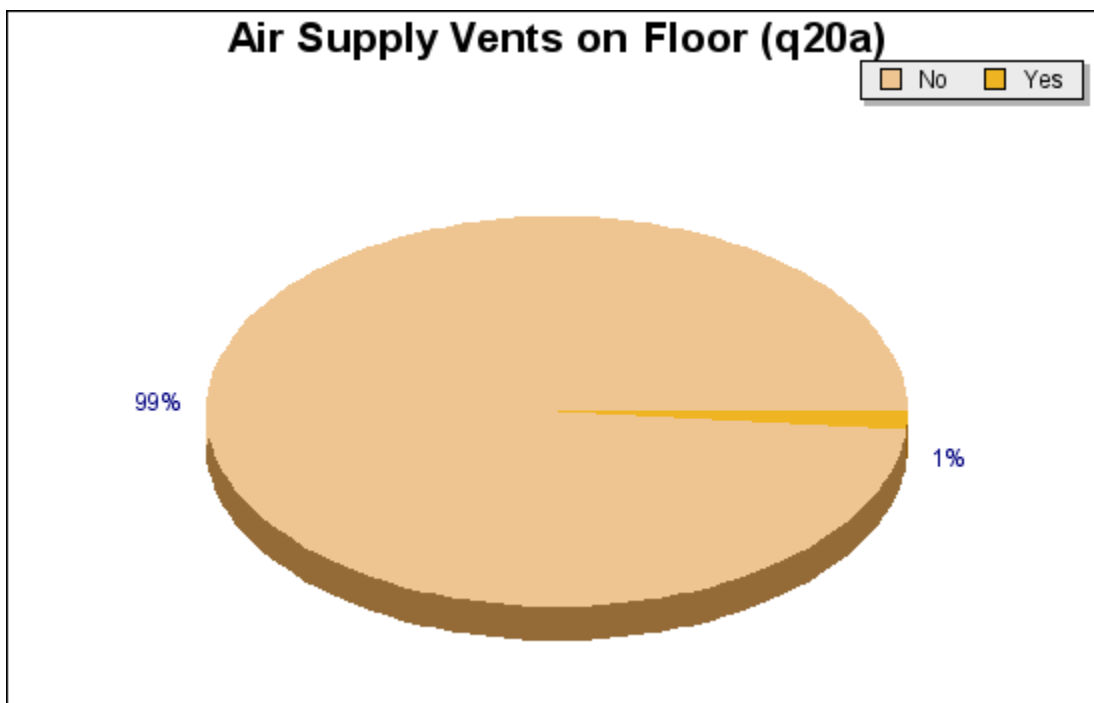
Question q19b2: IF WALLS: Lower Half



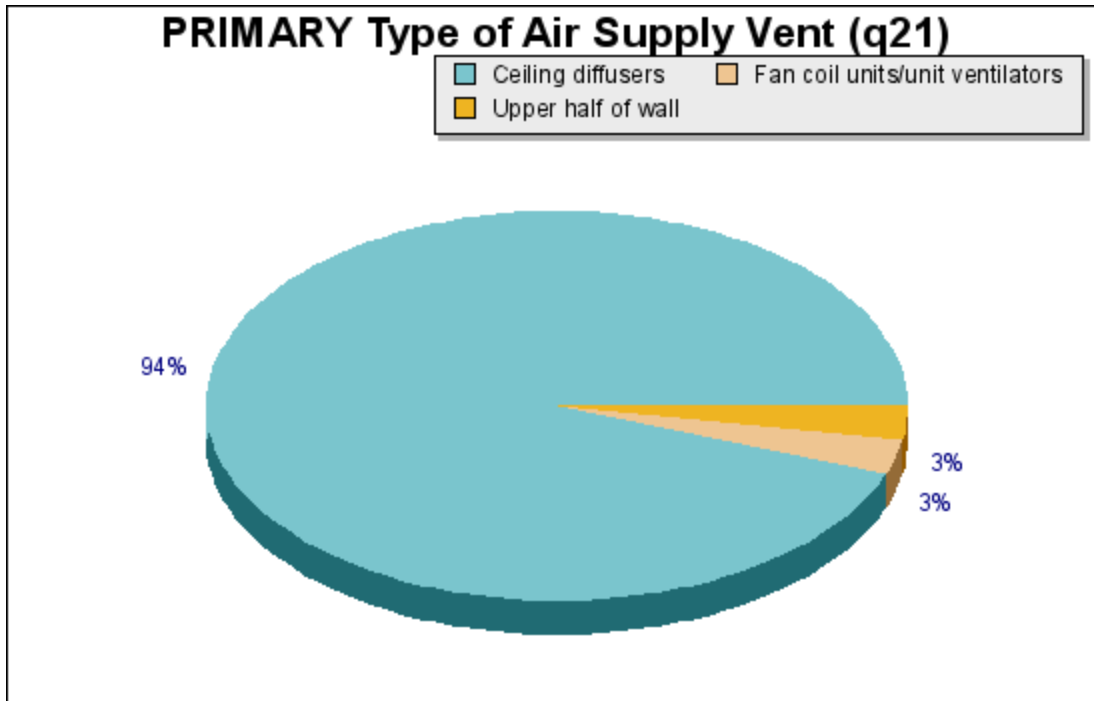
Question q19b3: IF WALLS: In the Middle



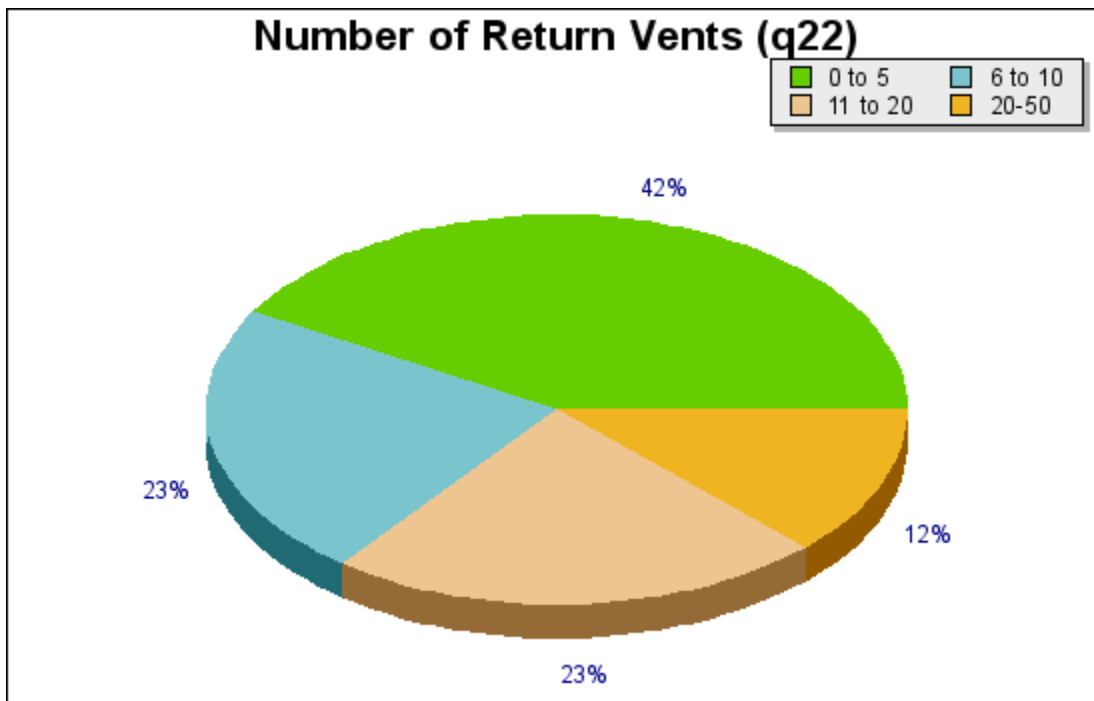
Question q19b4: IF WALLS: Multiple Heights



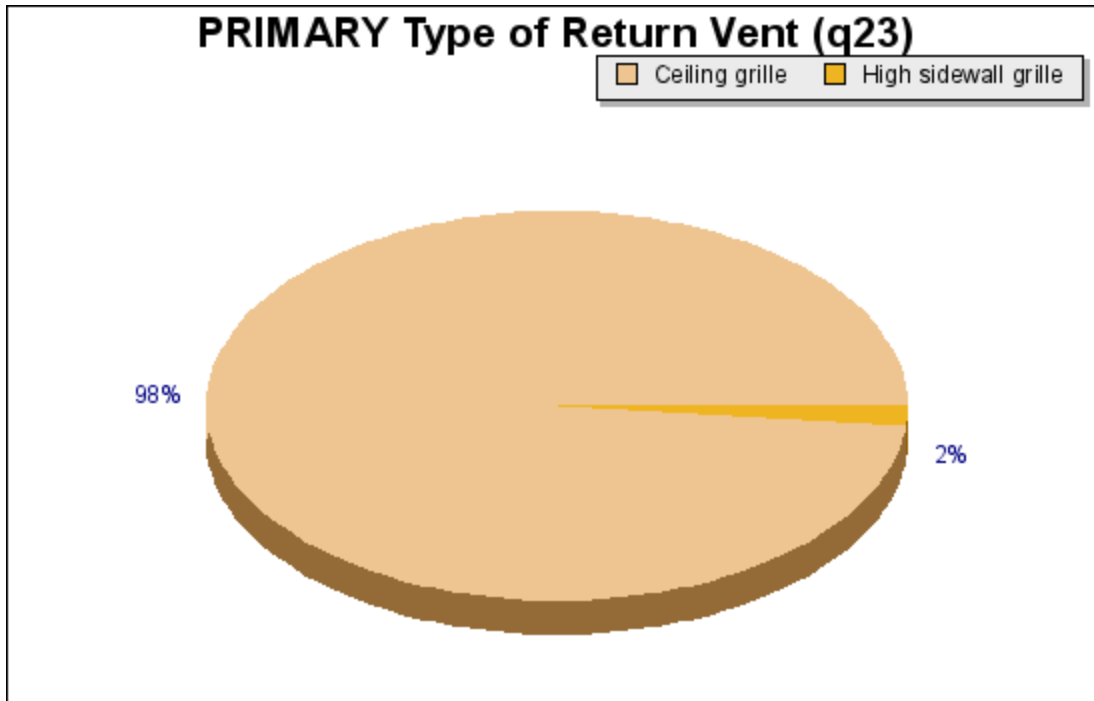
Question q20a: Air Supply Vents on Floor



Question q21: PRIMARY Type of Air Supply Vent

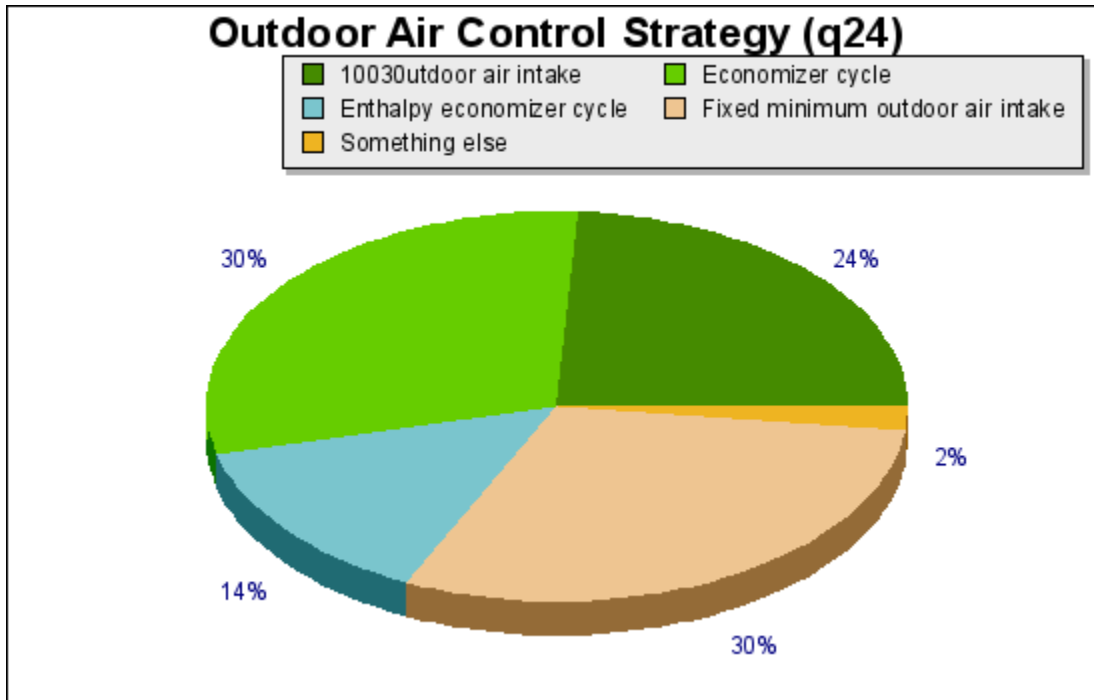


Question q22: Number of Return Vents

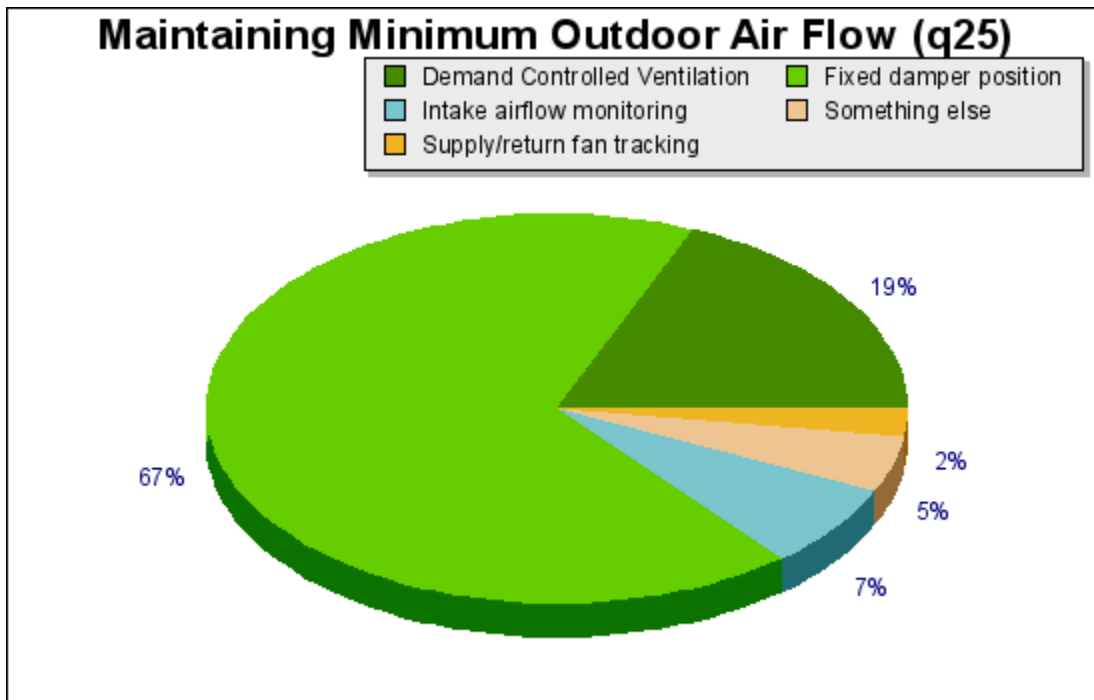


Question q23: PRIMARY Type of Return Vent

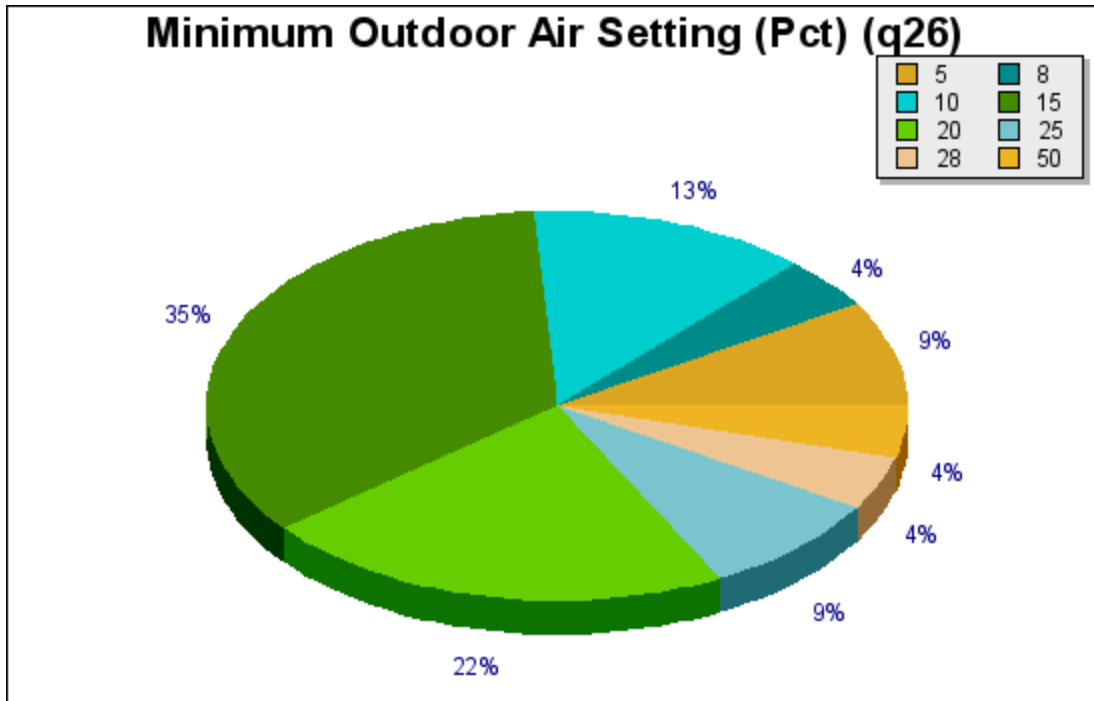
HVAC System Description - Outdoor Air Intake Control



Question q24: Outdoor Air Control Strategy

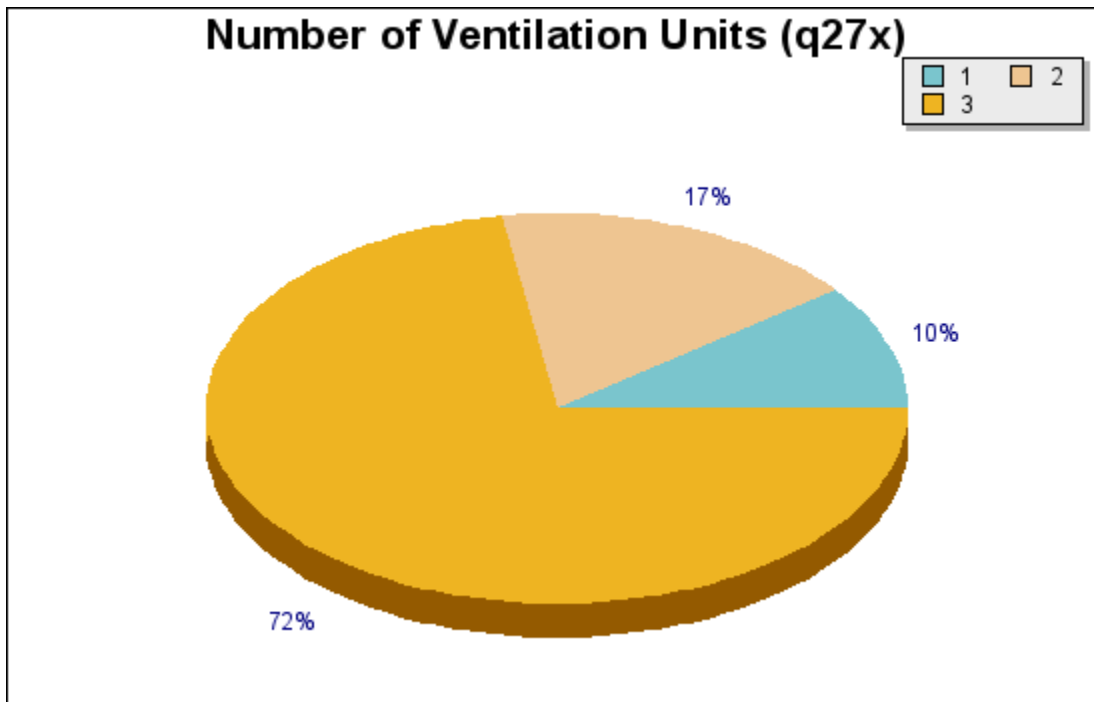


Question q25: Maintaining Minimum Outdoor Air Flow



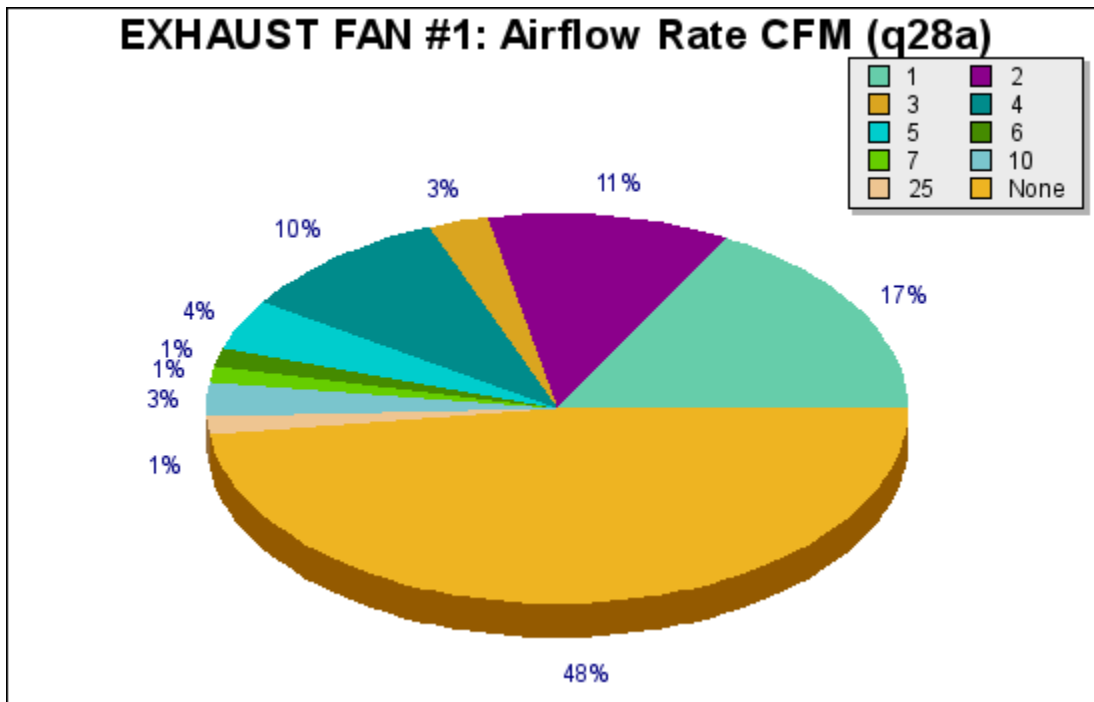
Question q26: Minimum Outdoor Air Setting (Pct)

Air Handling Unit Specifications

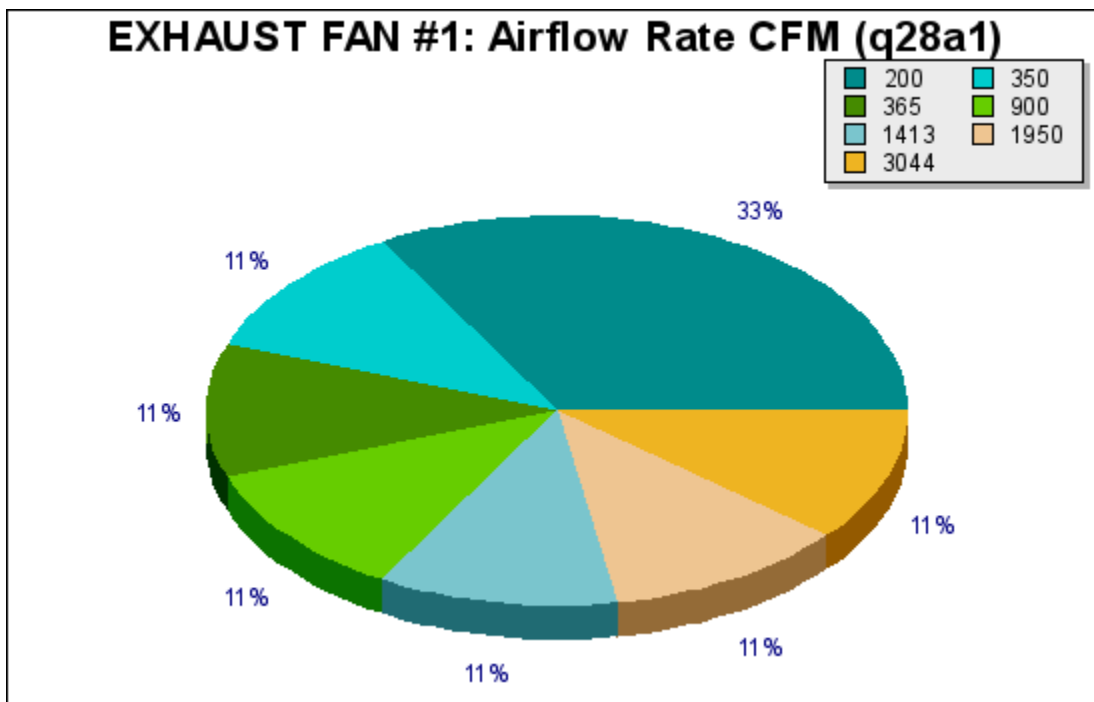


Question q27x: Number of Ventilation Units

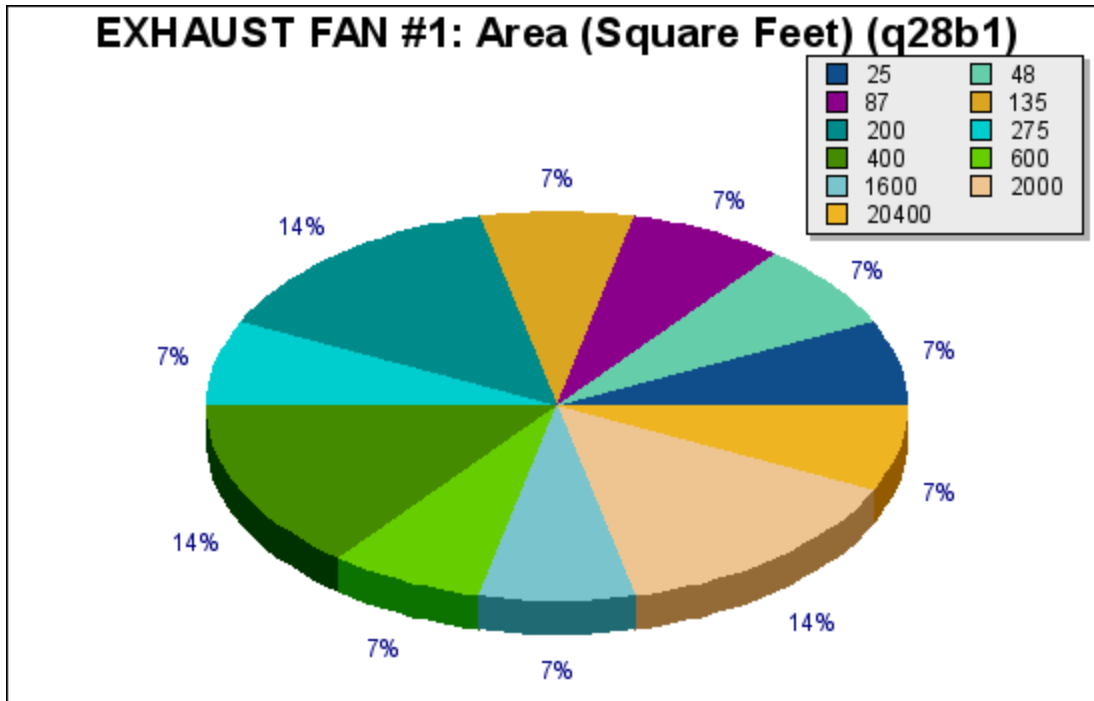
Exhaust Fan Specifications



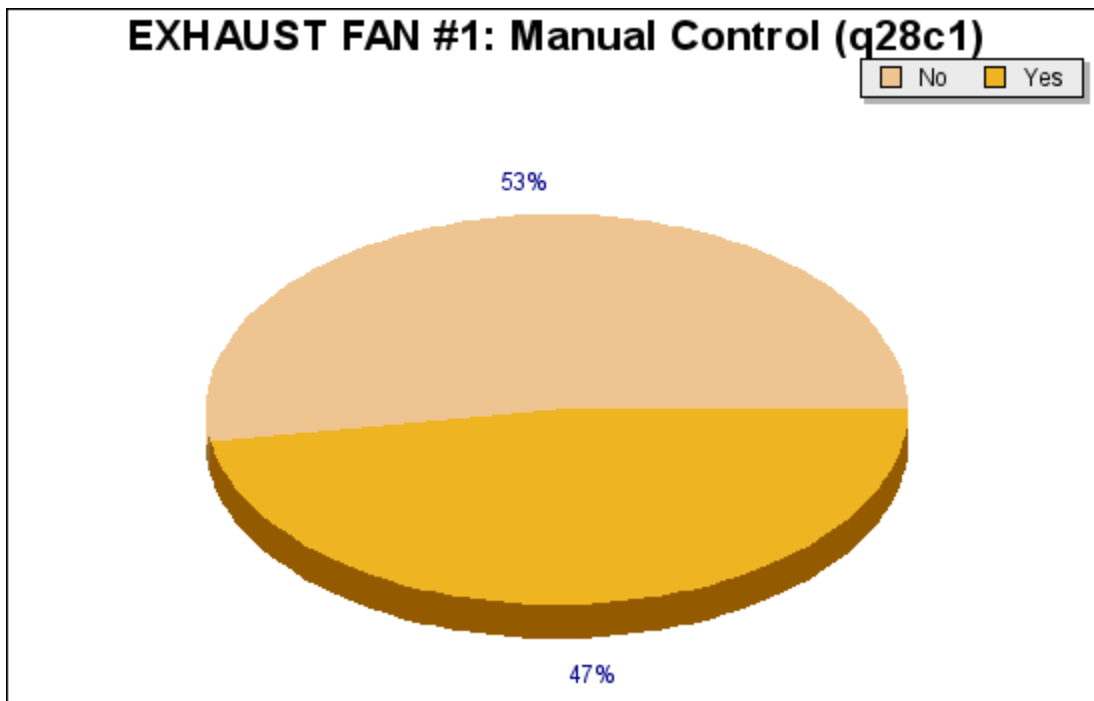
Question q28a: EXHAUST FAN #1: Airflow Rate CFM



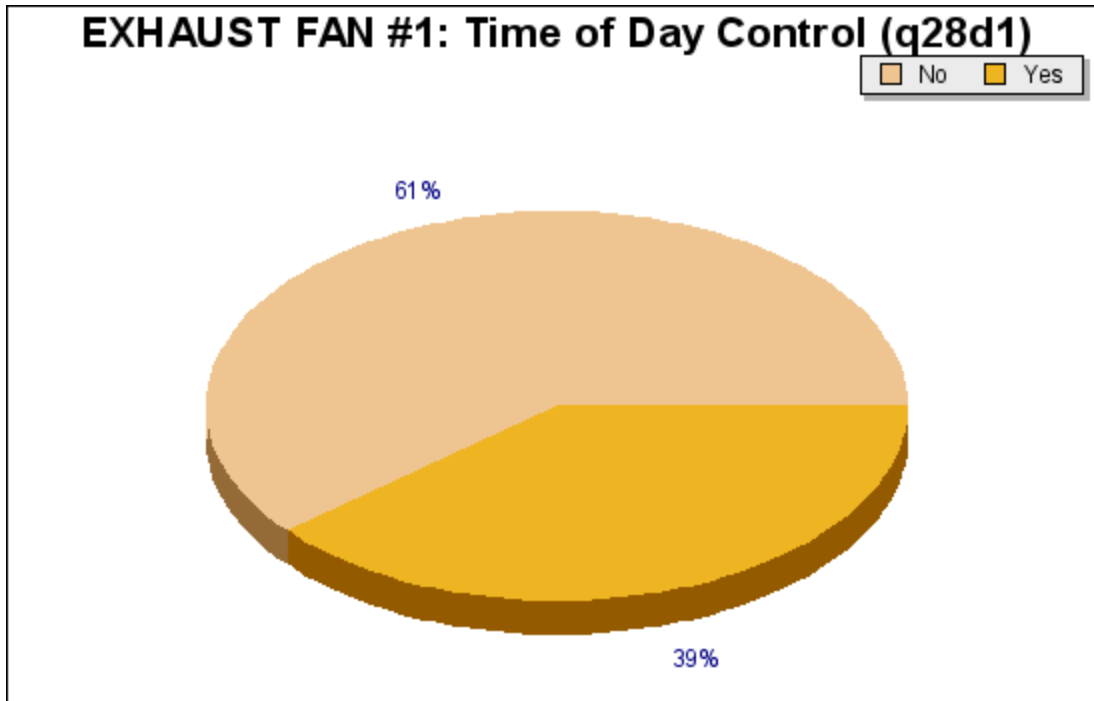
Question q28a1: EXHAUST FAN #1: Airflow Rate CFM



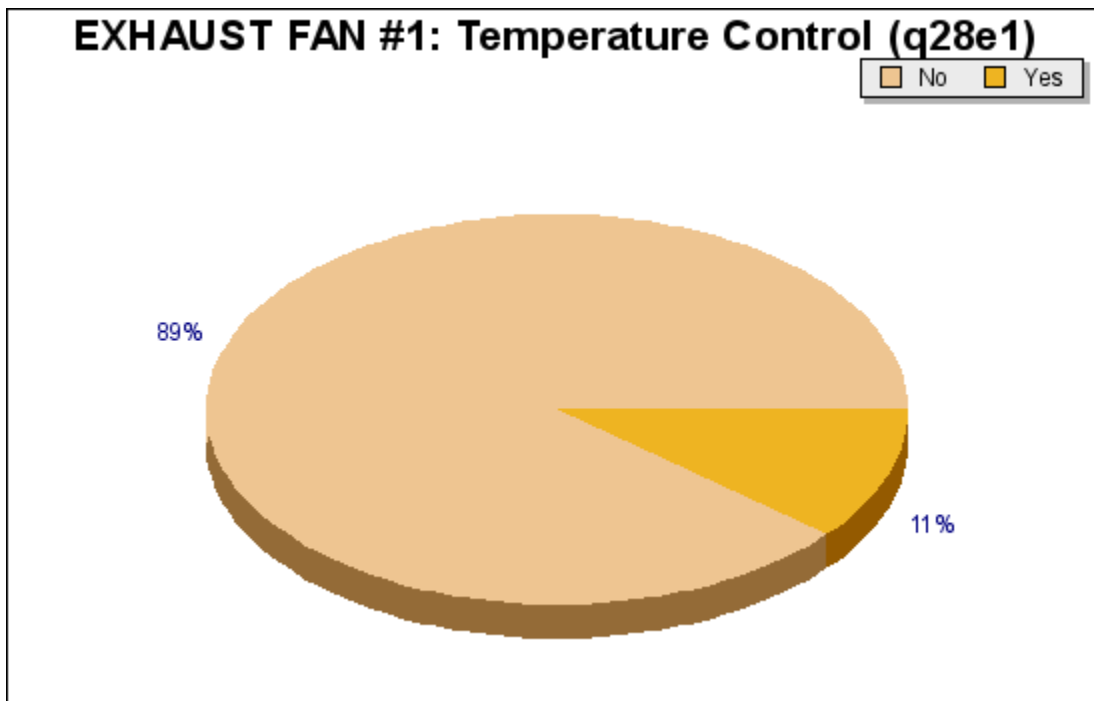
Question q28b1: EXHAUST FAN #1: Area (Square Feet)



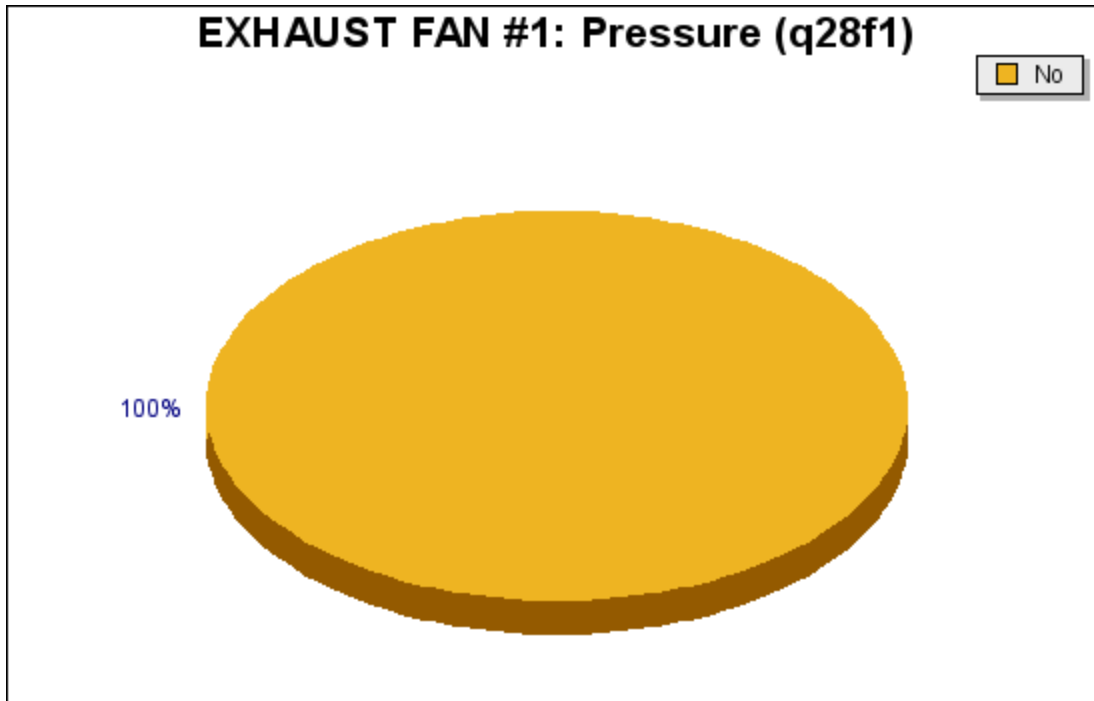
Question q28c1: EXHAUST FAN #1: Manual Control



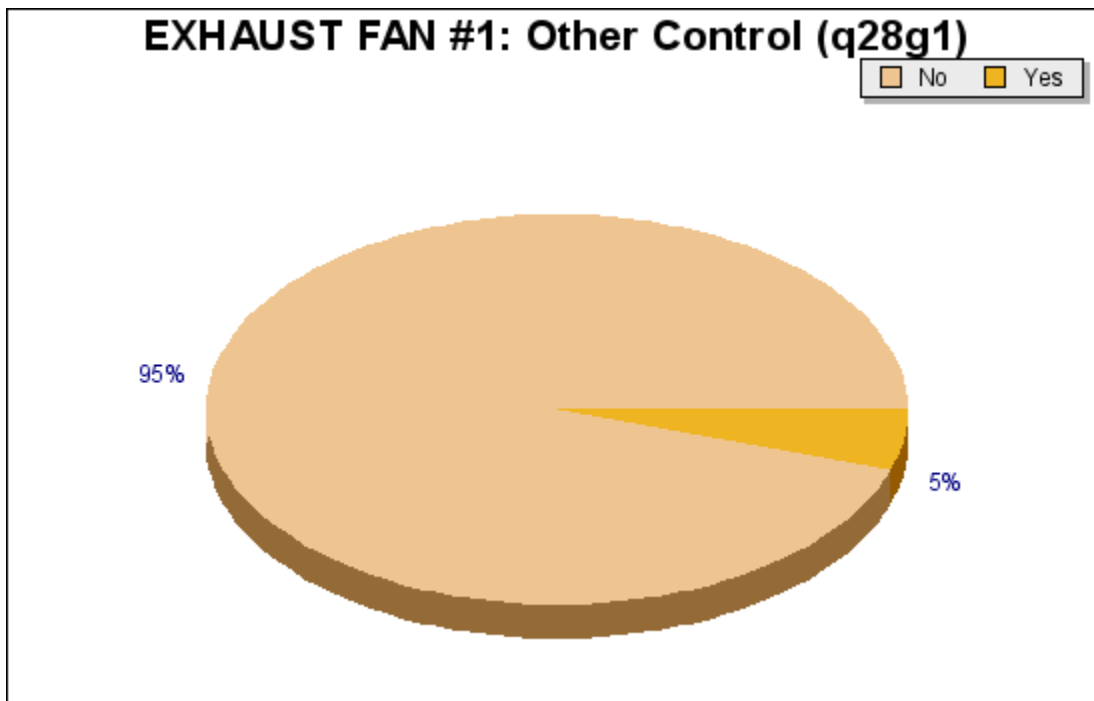
Question q28d1: EXHAUST FAN #1: Time of Day Control



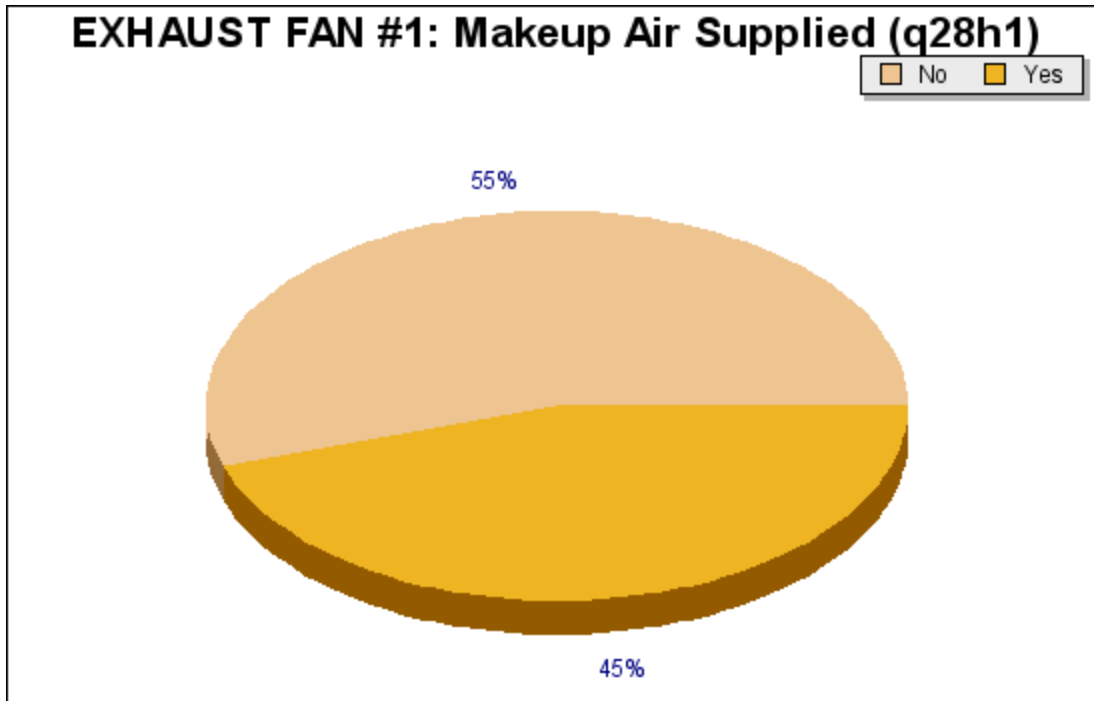
Question q28e1: EXHAUST FAN #1: Temperature Control



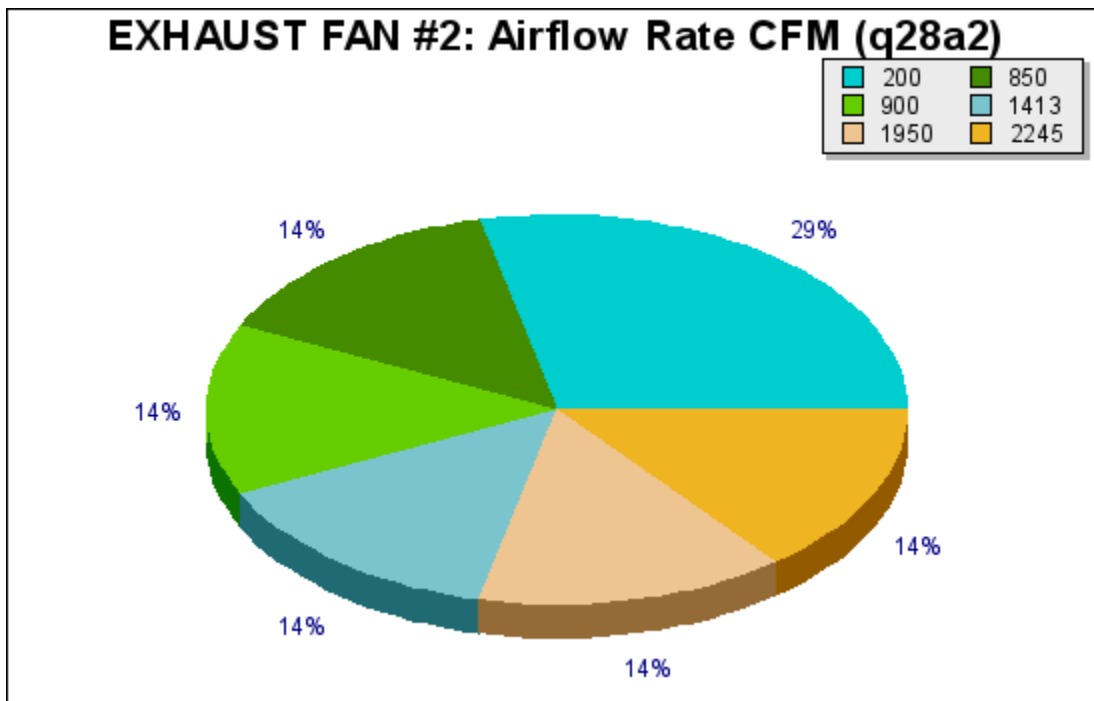
Question q28f1: EXHAUST FAN #1: Pressure



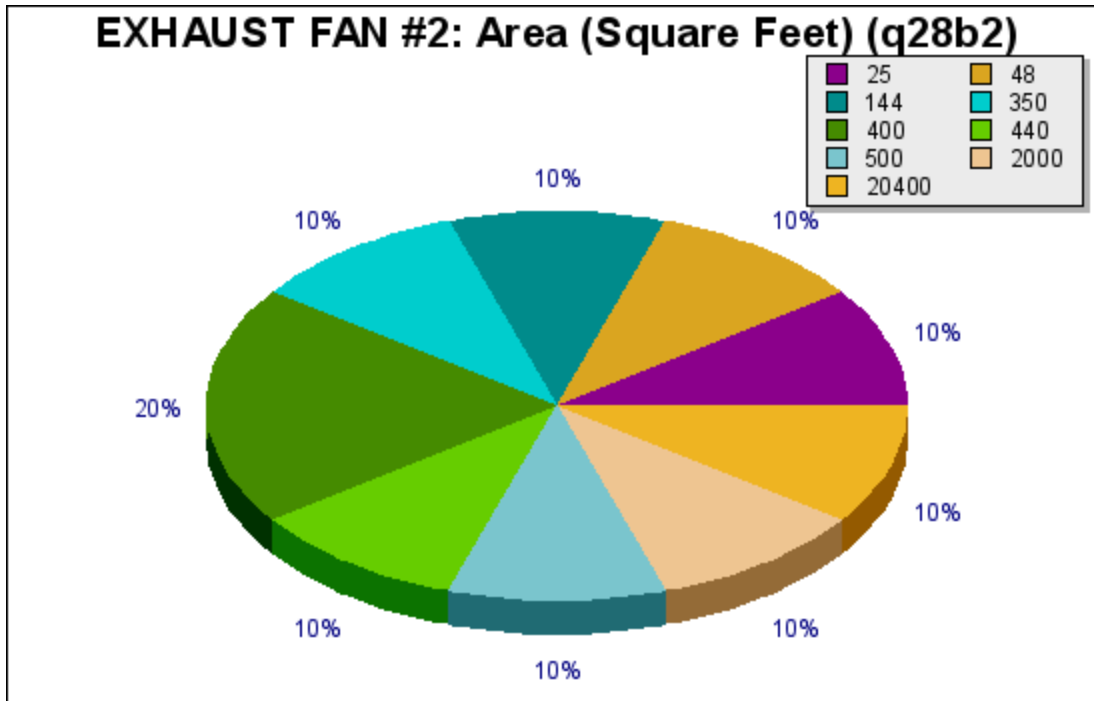
Question q28g1: EXHAUST FAN #1: Other Control



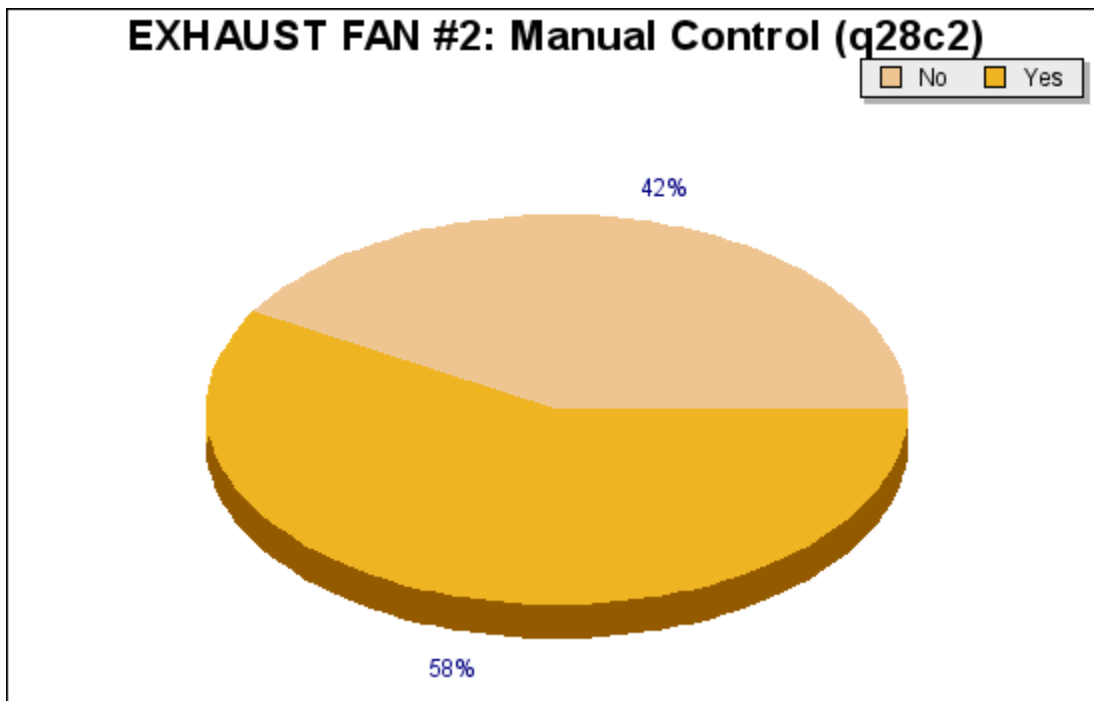
Question q28h1: EXHAUST FAN #1: Makeup Air Supplied



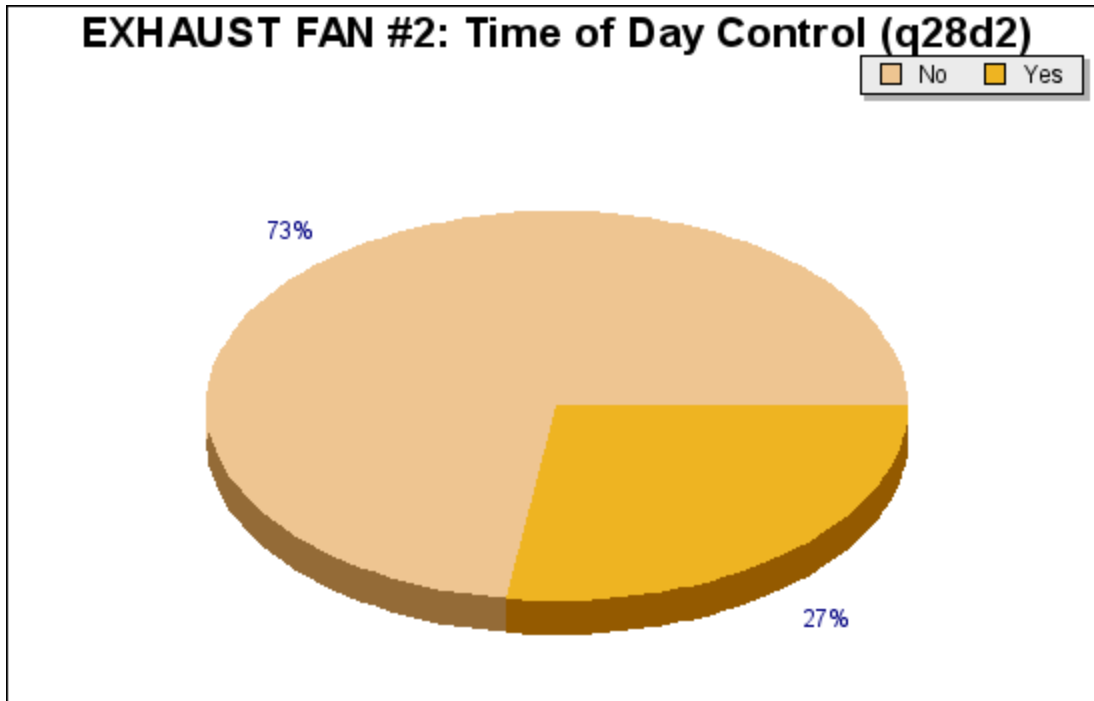
Question q28a2: EXHAUST FAN #2: Airflow Rate CFM



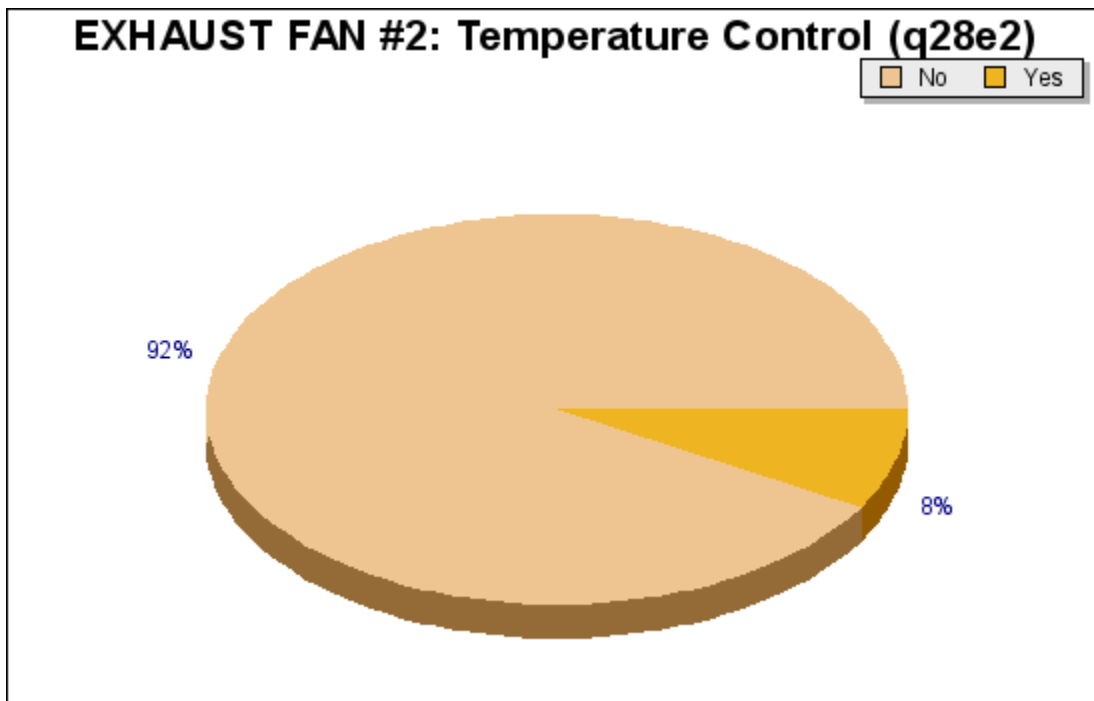
Question q28b2: EXHAUST FAN #2: Area (Square Feet)



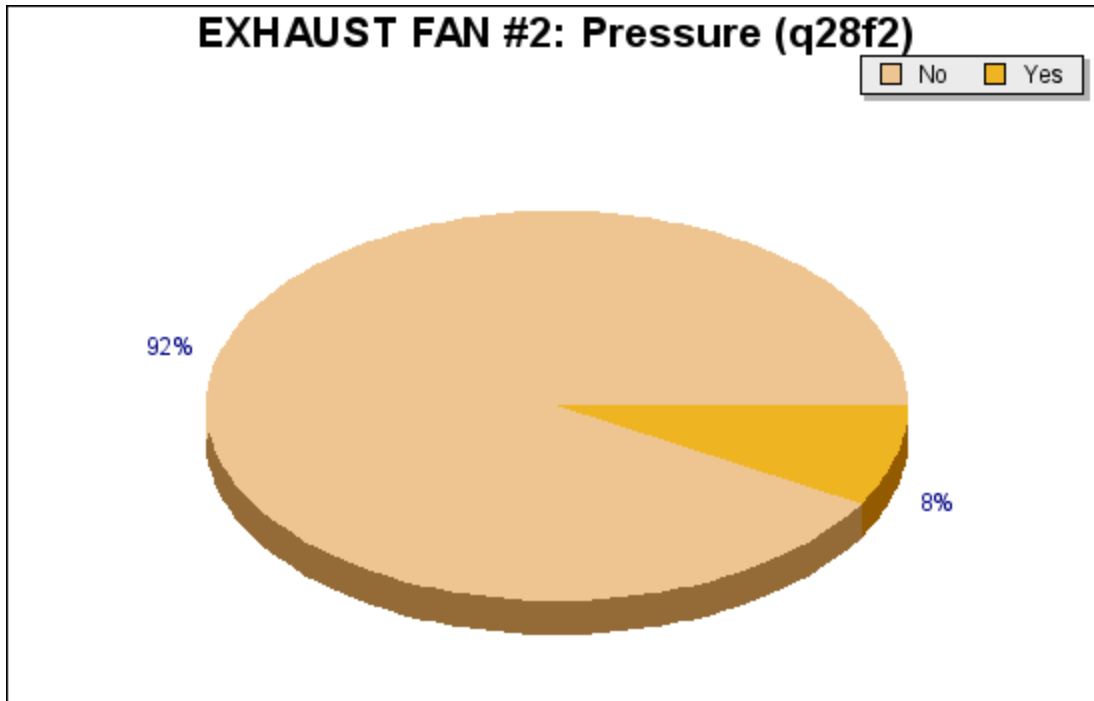
Question q28c2: EXHAUST FAN #2: Manual Control



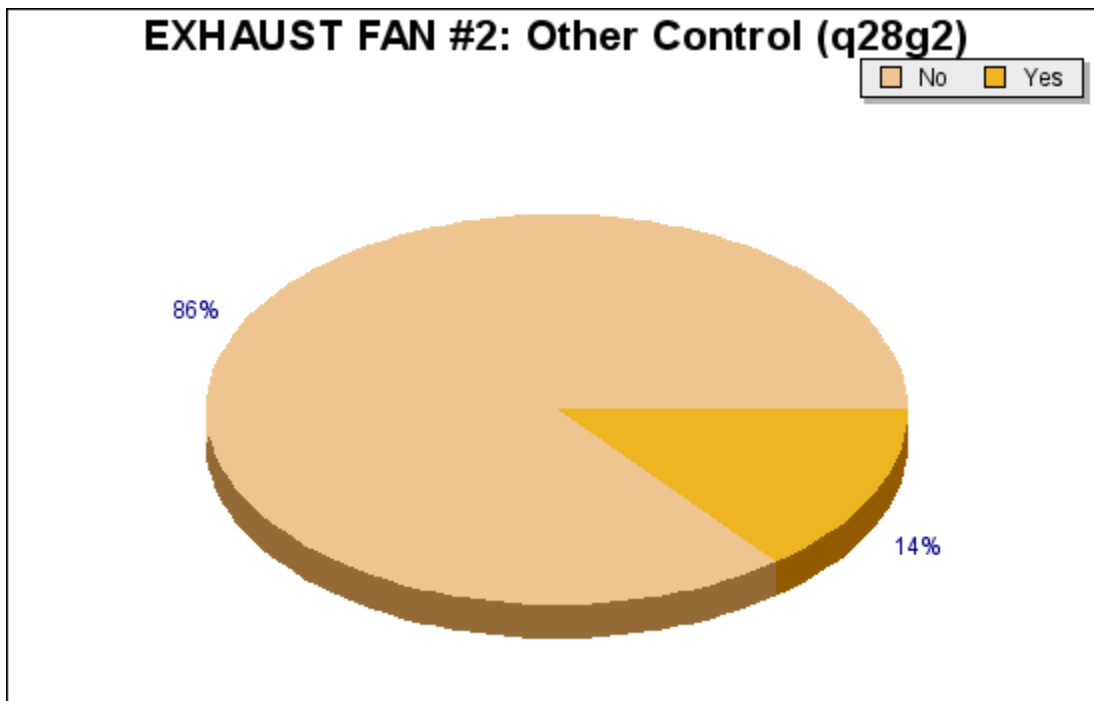
Question q28d2: EXHAUST FAN #2: Time of Day Control



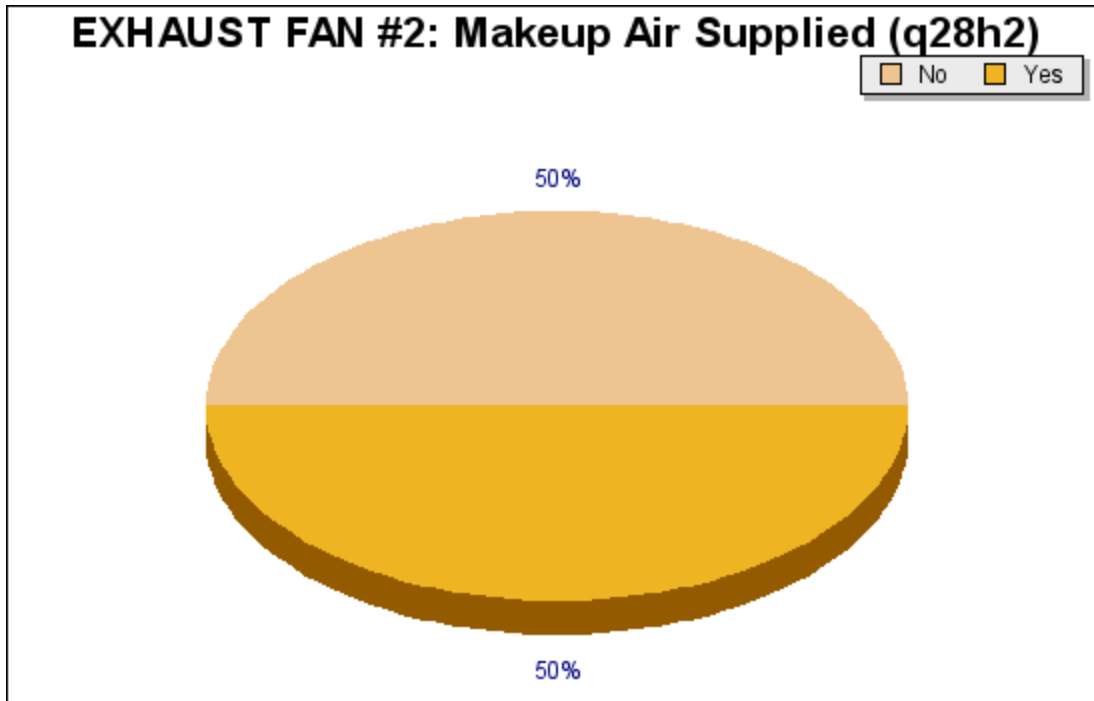
Question q28e2: EXHAUST FAN #2: Temperature Control



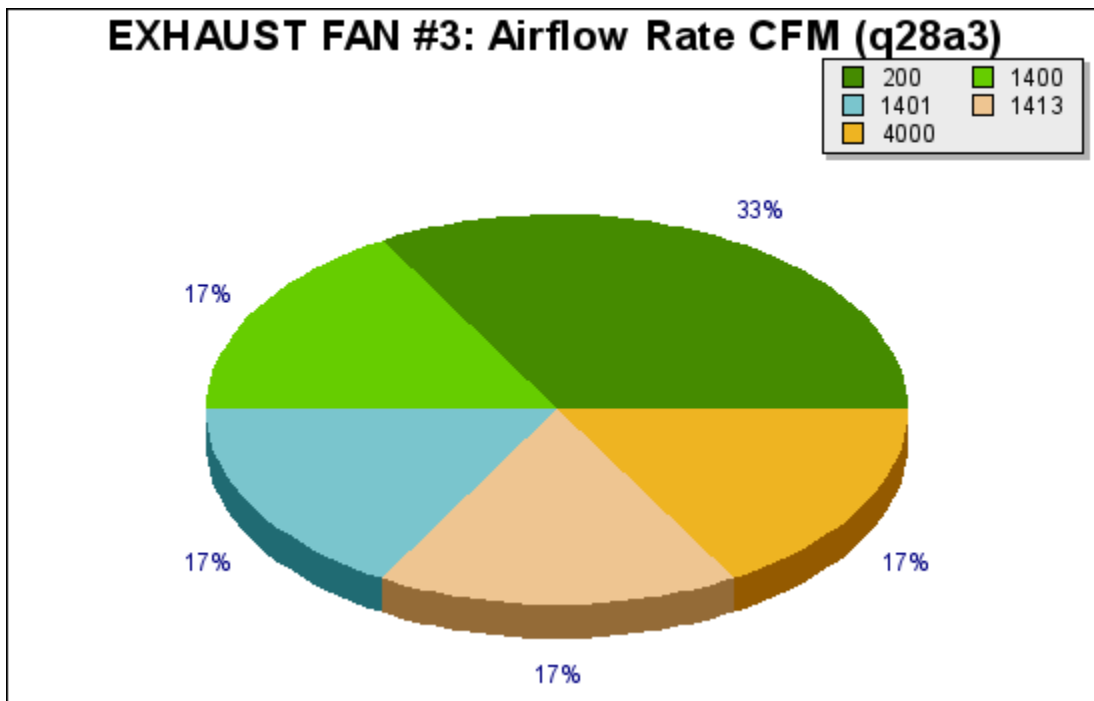
Question q28f2: EXHAUST FAN #2: Pressure



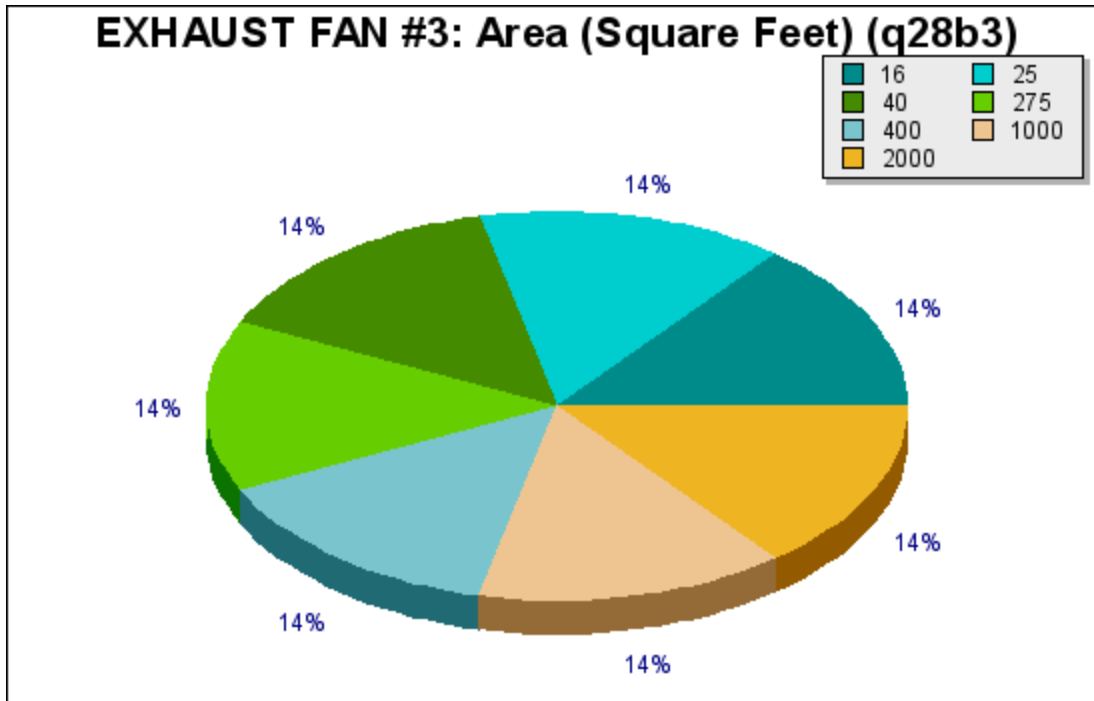
Question q28g2: EXHAUST FAN #2: Other Control



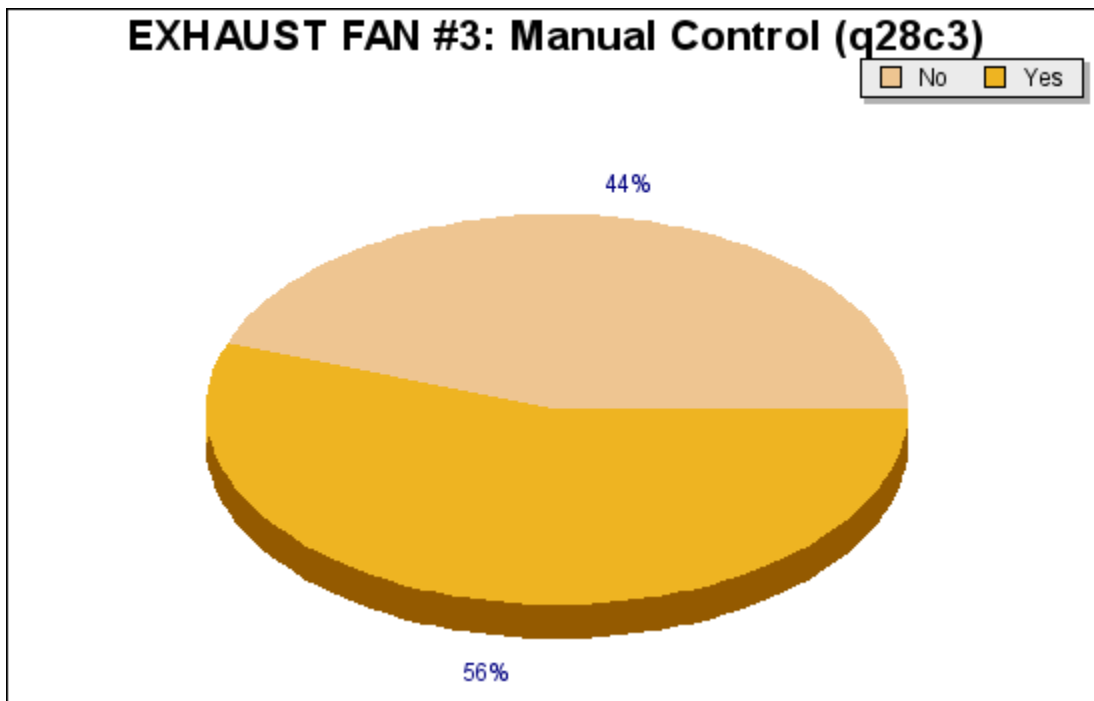
Question q28h2: EXHAUST FAN #2: Makeup Air Supplied



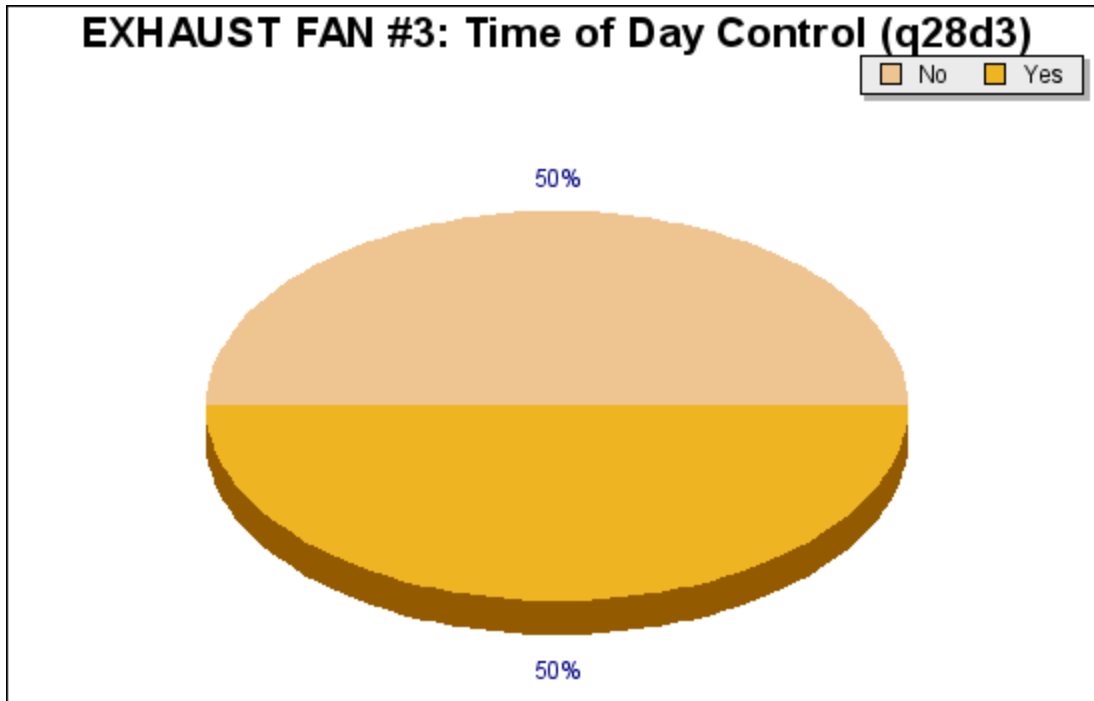
Question q28a3: EXHAUST FAN #3: Airflow Rate CFM



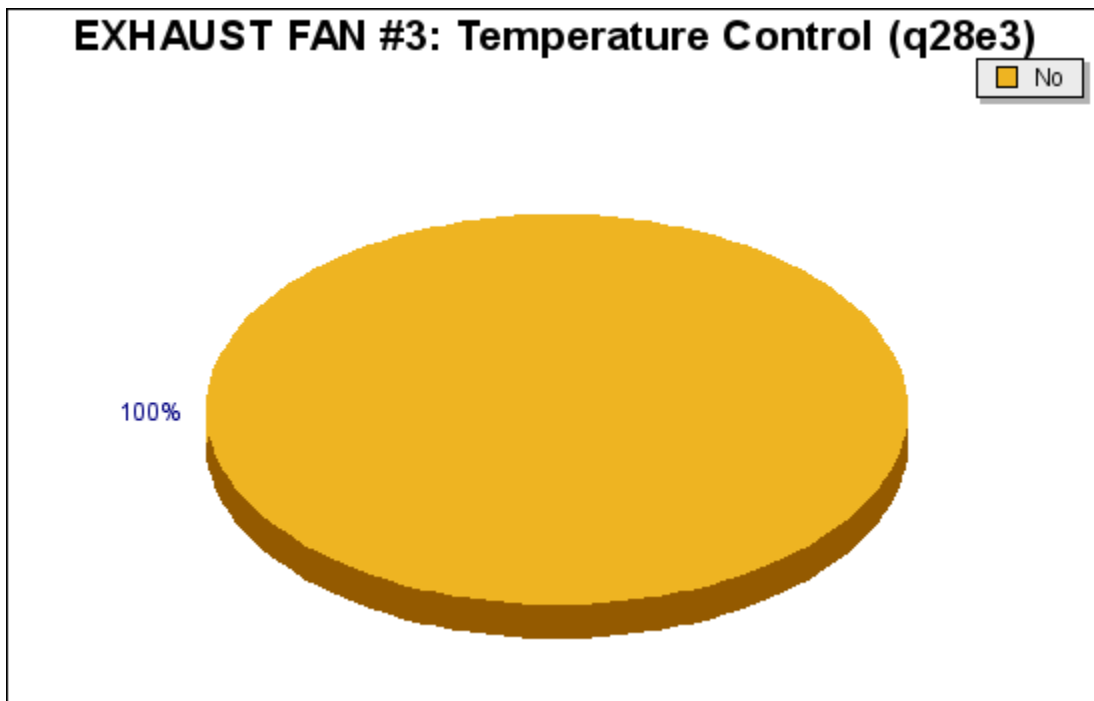
Question q28b3: EXHAUST FAN #3: Area (Square Feet)



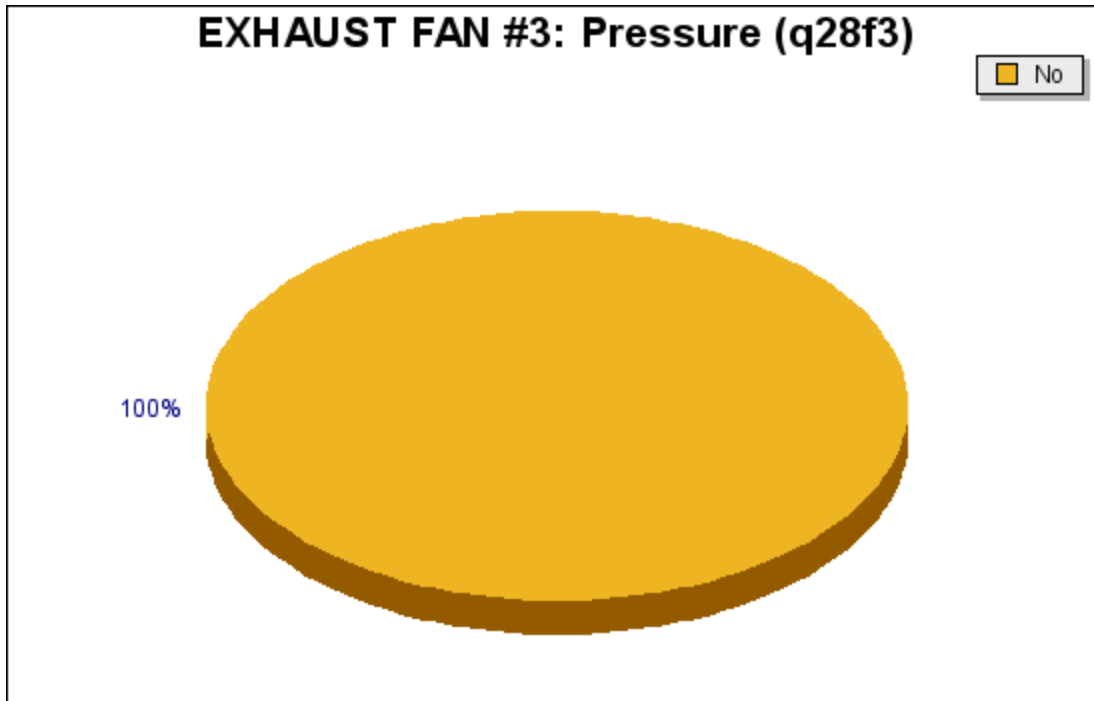
Question q28c3: EXHAUST FAN #3: Manual Control



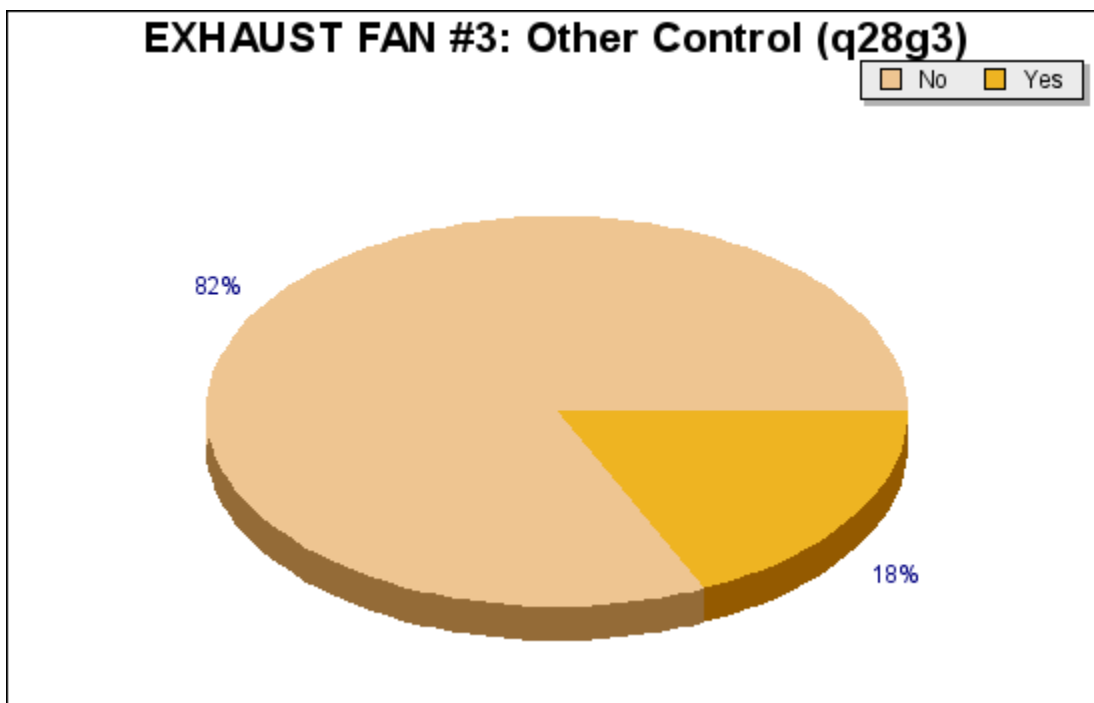
Question q28d3: EXHAUST FAN #3: Time of Day Control



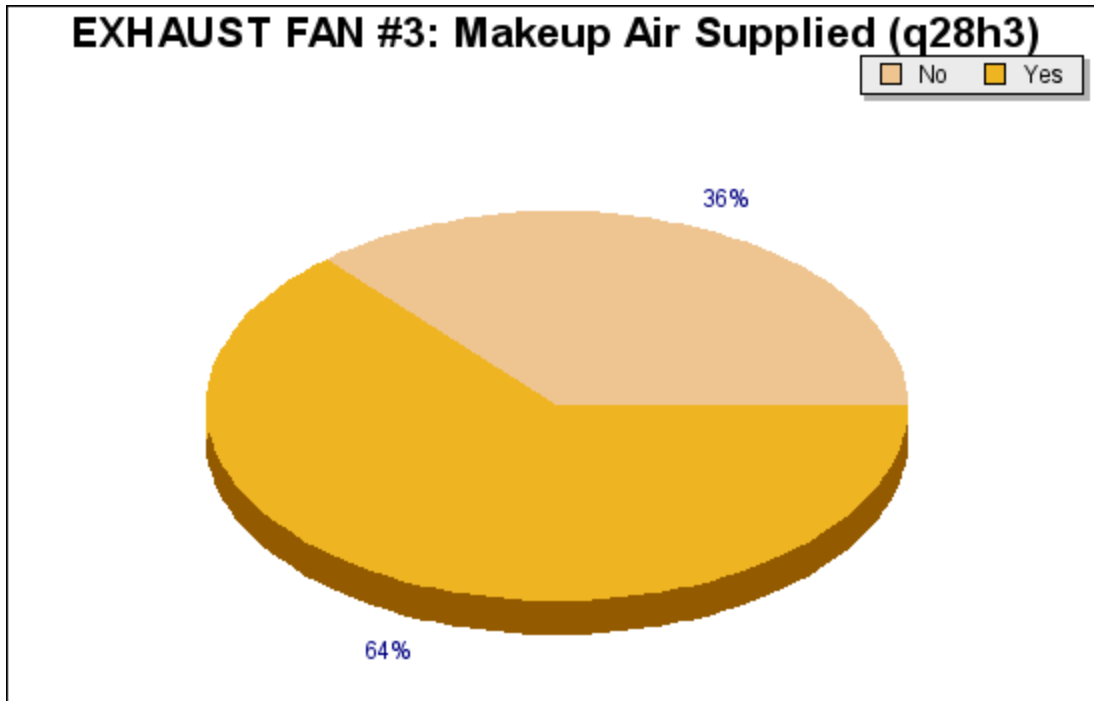
Question q28e3: EXHAUST FAN #3: Temperature Control



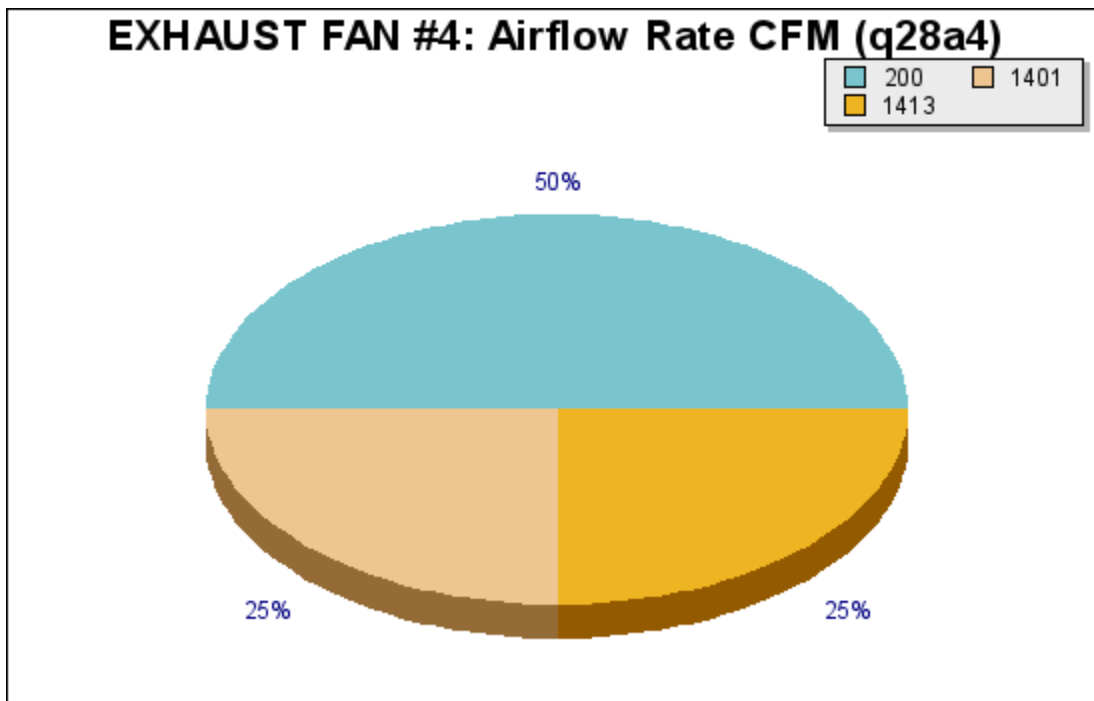
Question q28f3: EXHAUST FAN #3: Pressure



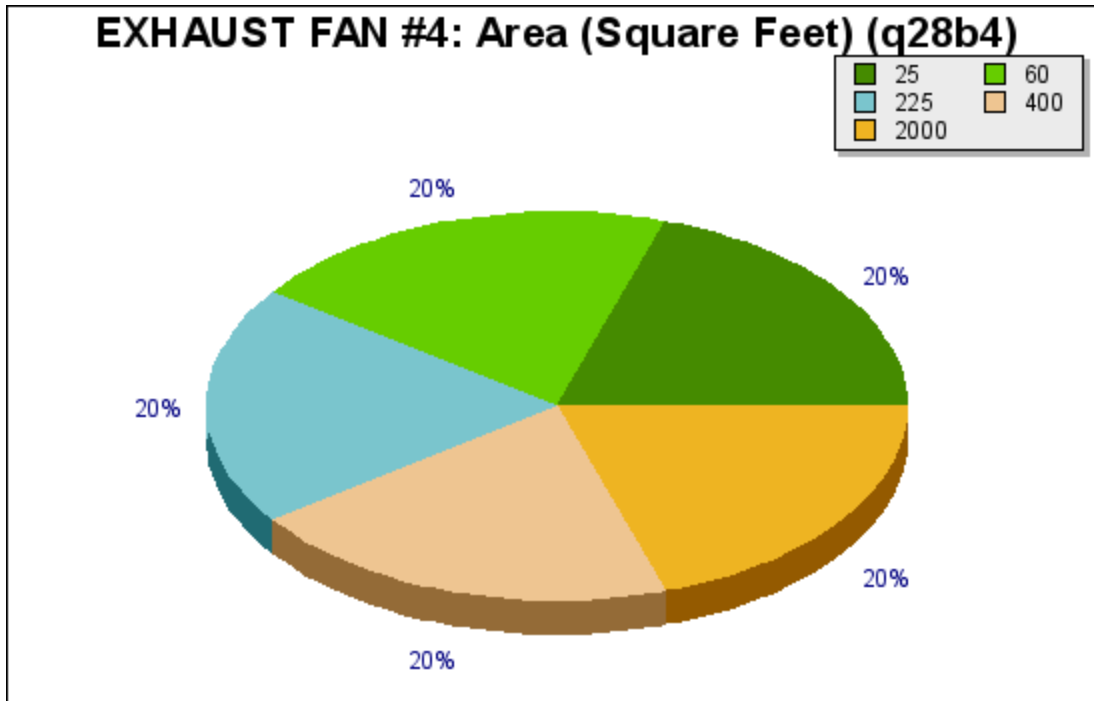
Question q28g3: EXHAUST FAN #3: Other Control



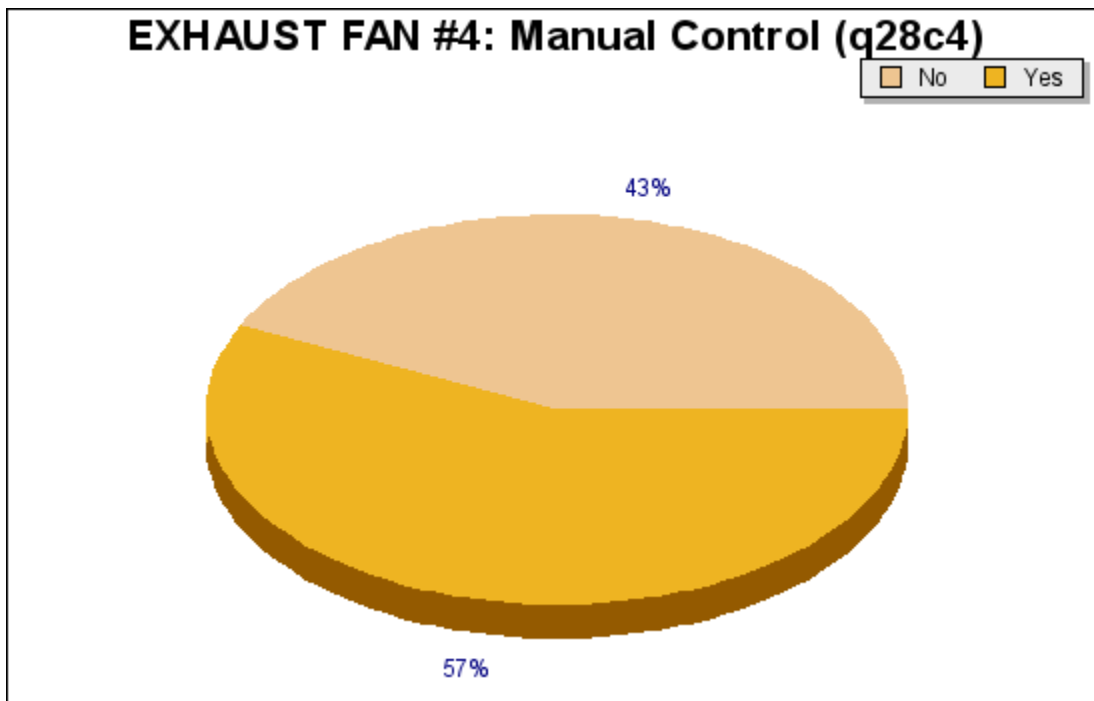
Question q28h3: EXHAUST FAN #3: Makeup Air Supplied



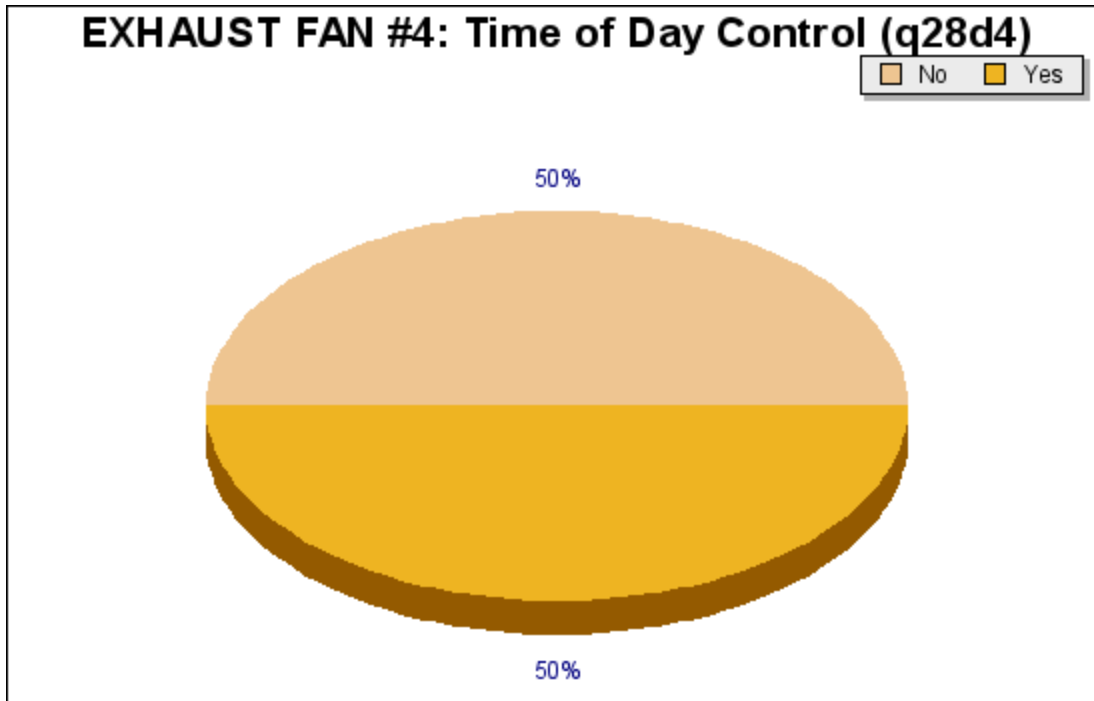
Question q28a4: EXHAUST FAN #4: Airflow Rate CFM



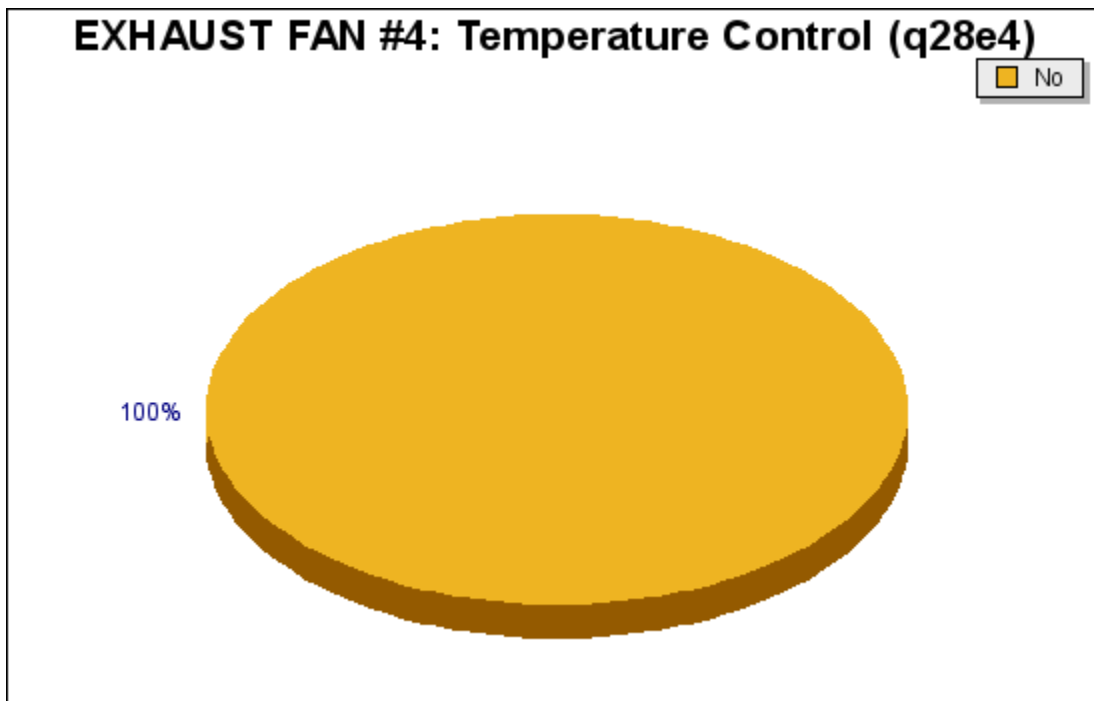
Question q28b4: EXHAUST FAN #4: Area (Square Feet)



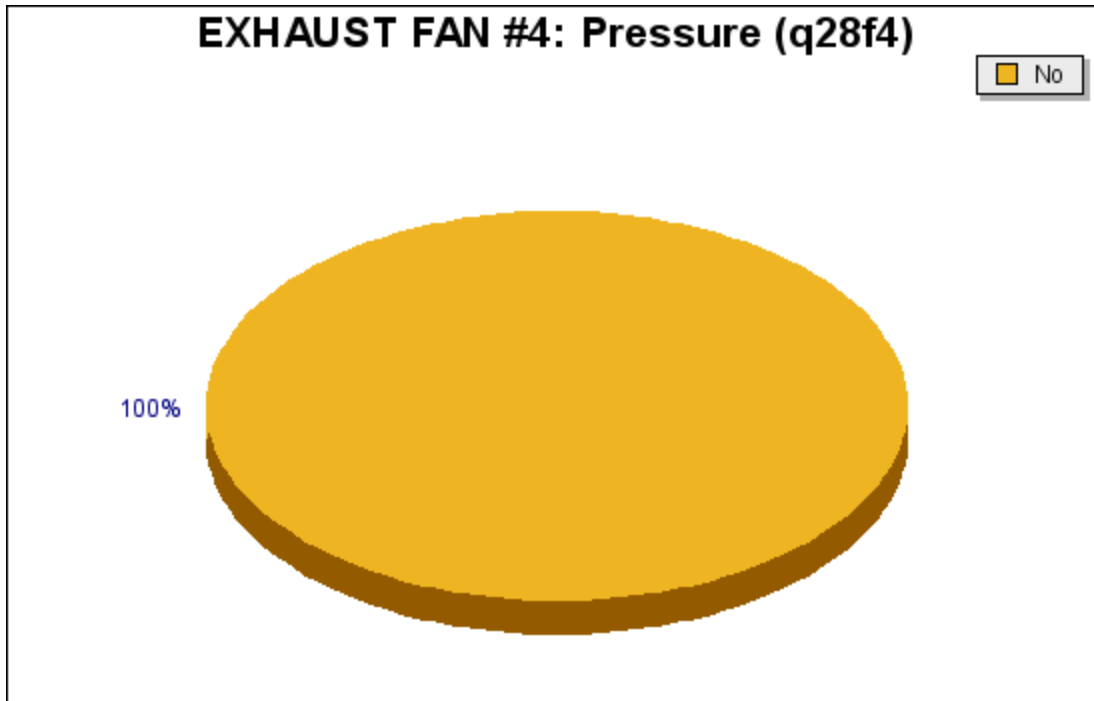
Question q28c4: EXHAUST FAN #4: Manual Control



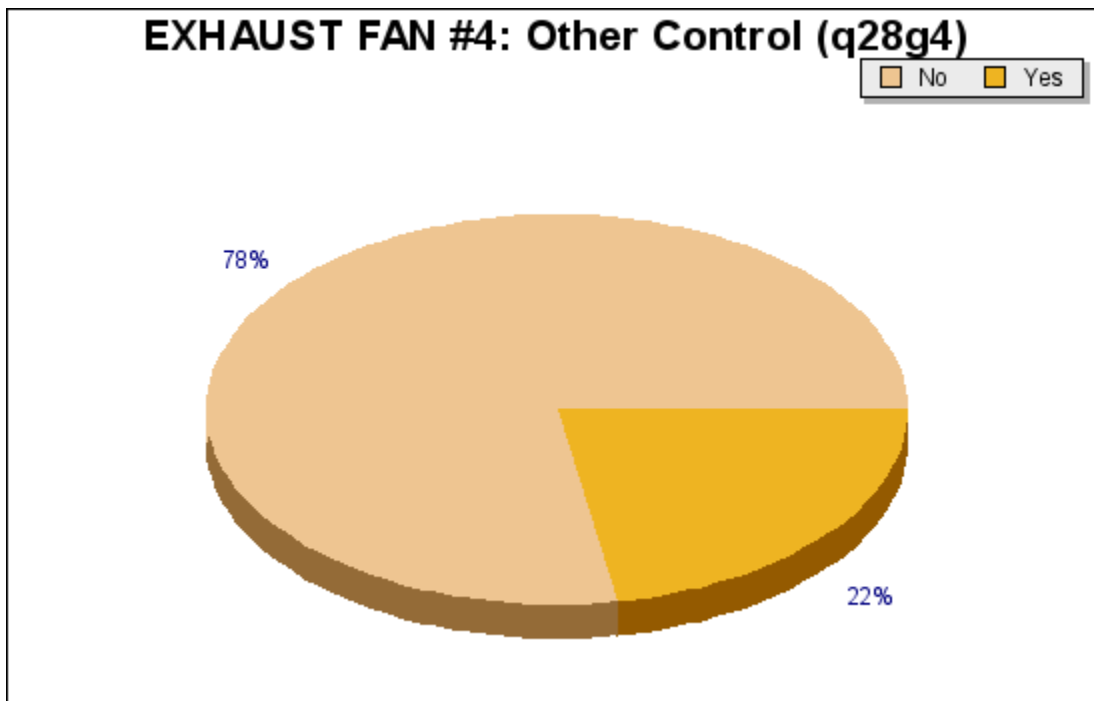
Question q28d4: EXHAUST FAN #4: Time of Day Control



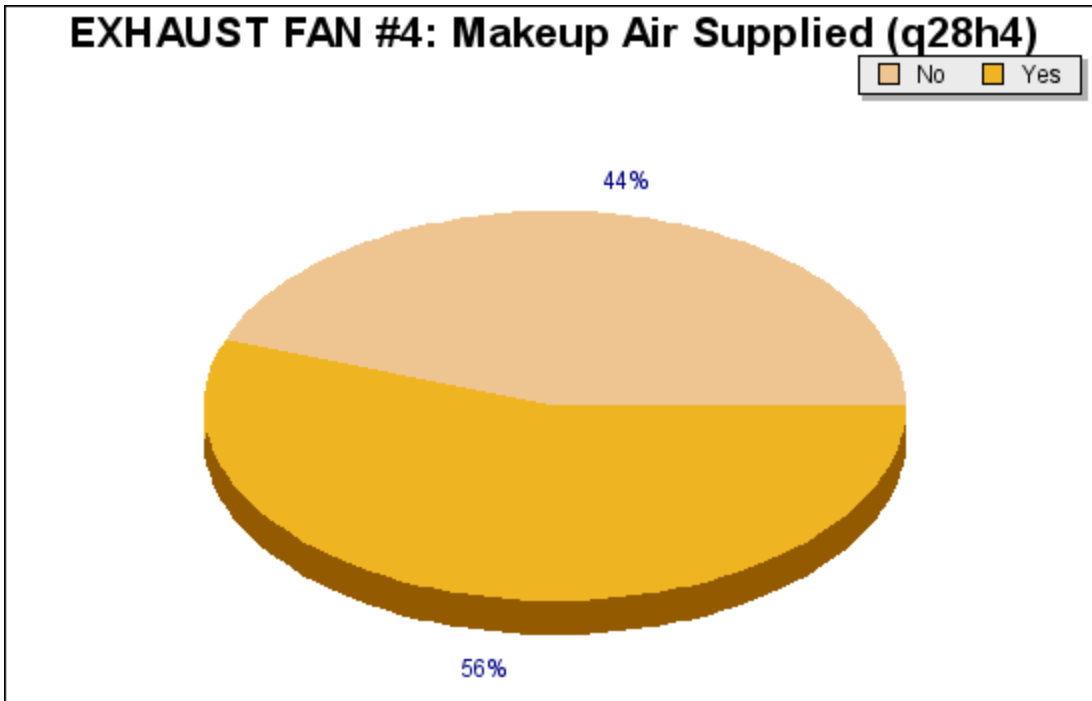
Question q28e4: EXHAUST FAN #4: Temperature Control



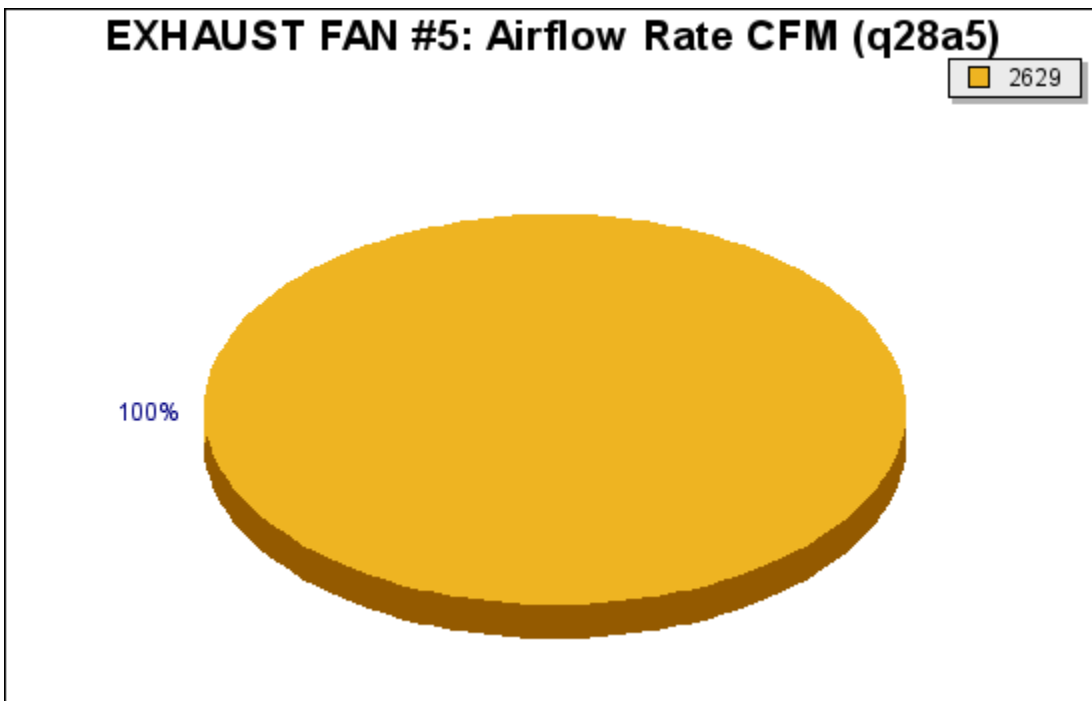
Question q28f4: EXHAUST FAN #4: Pressure



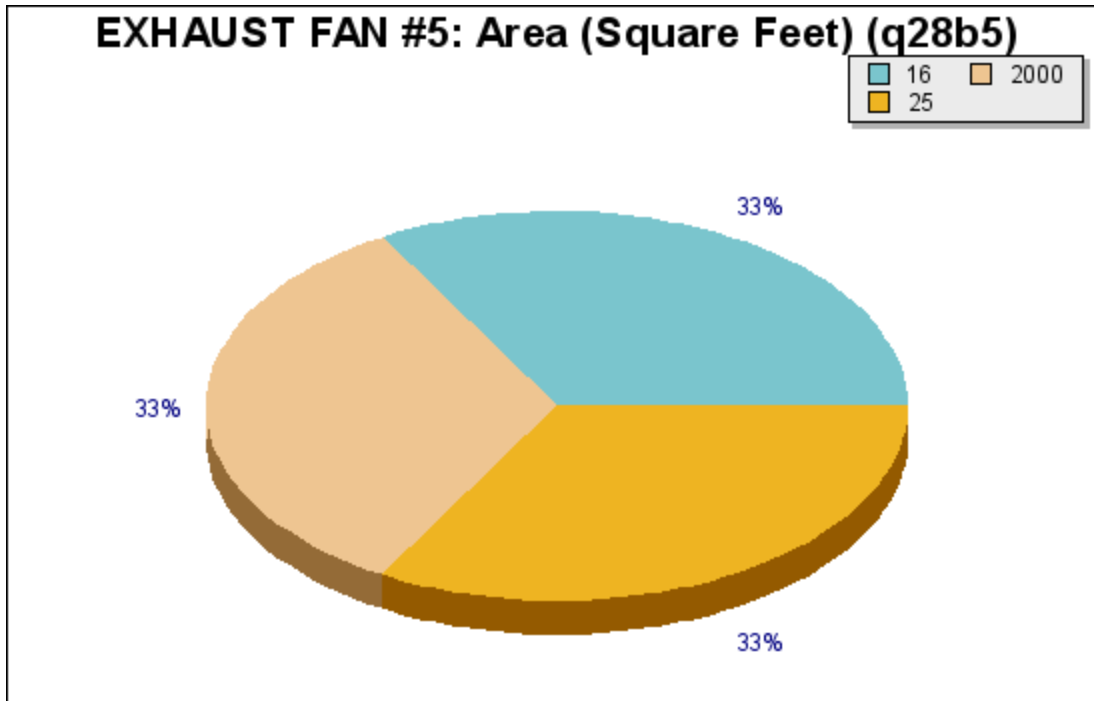
Question q28g4: EXHAUST FAN #4: Other Control



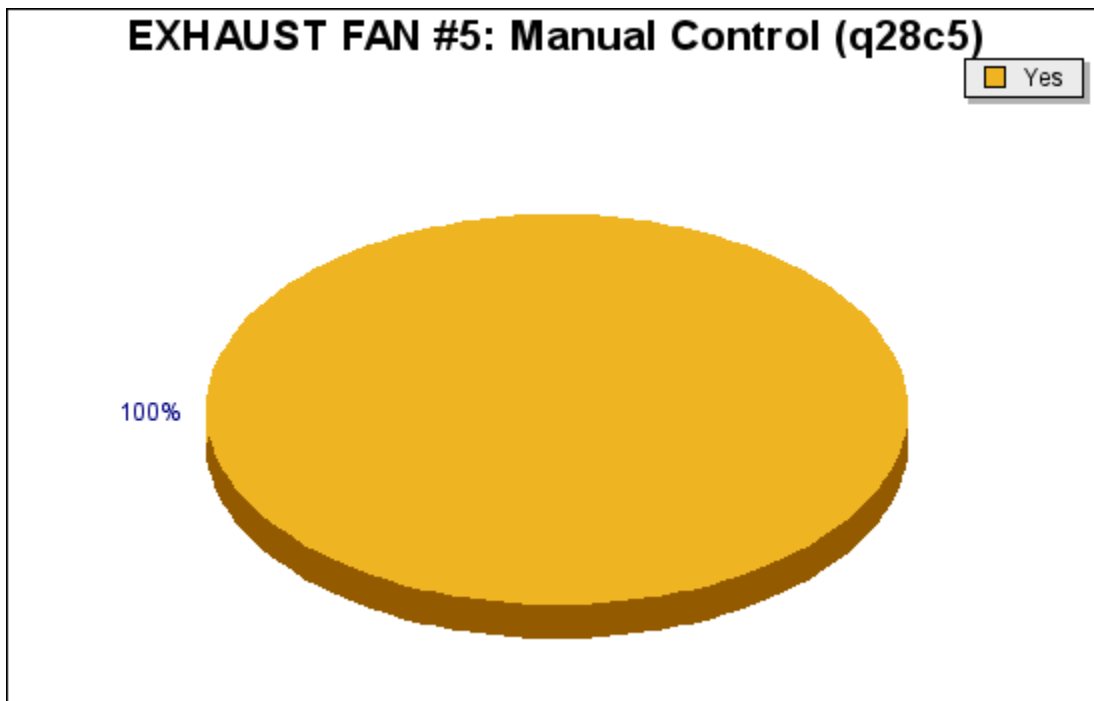
Question q28h4: EXHAUST FAN #4: Makeup Air Supplied



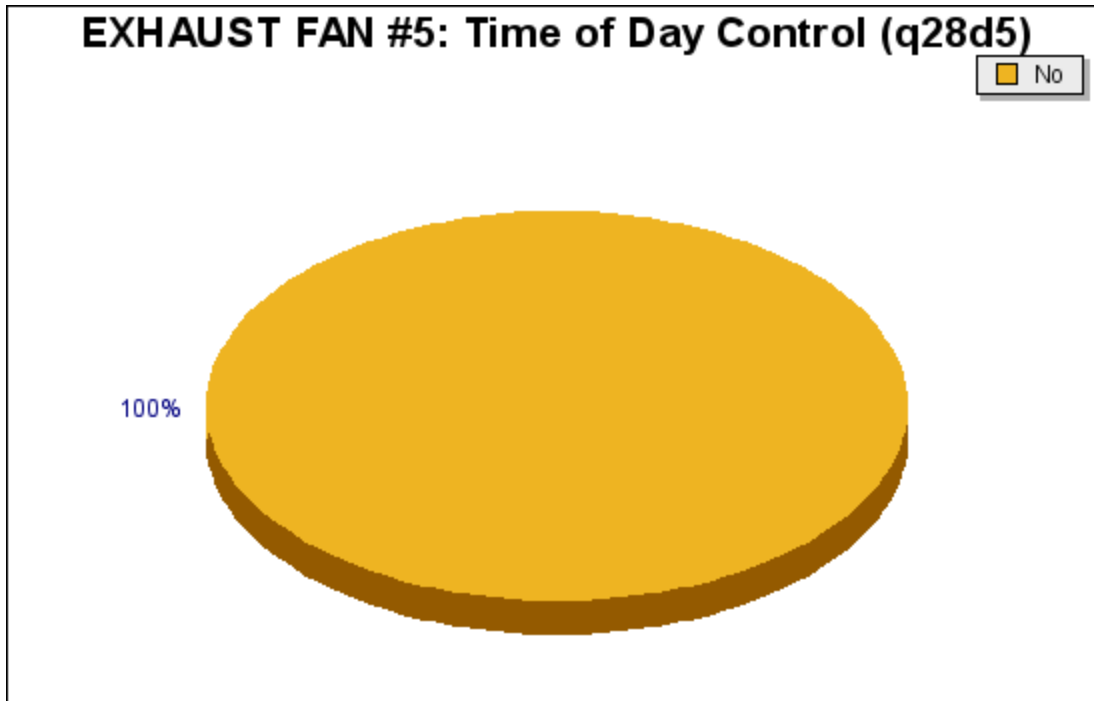
Question q28a5: EXHAUST FAN #5: Airflow Rate CFM



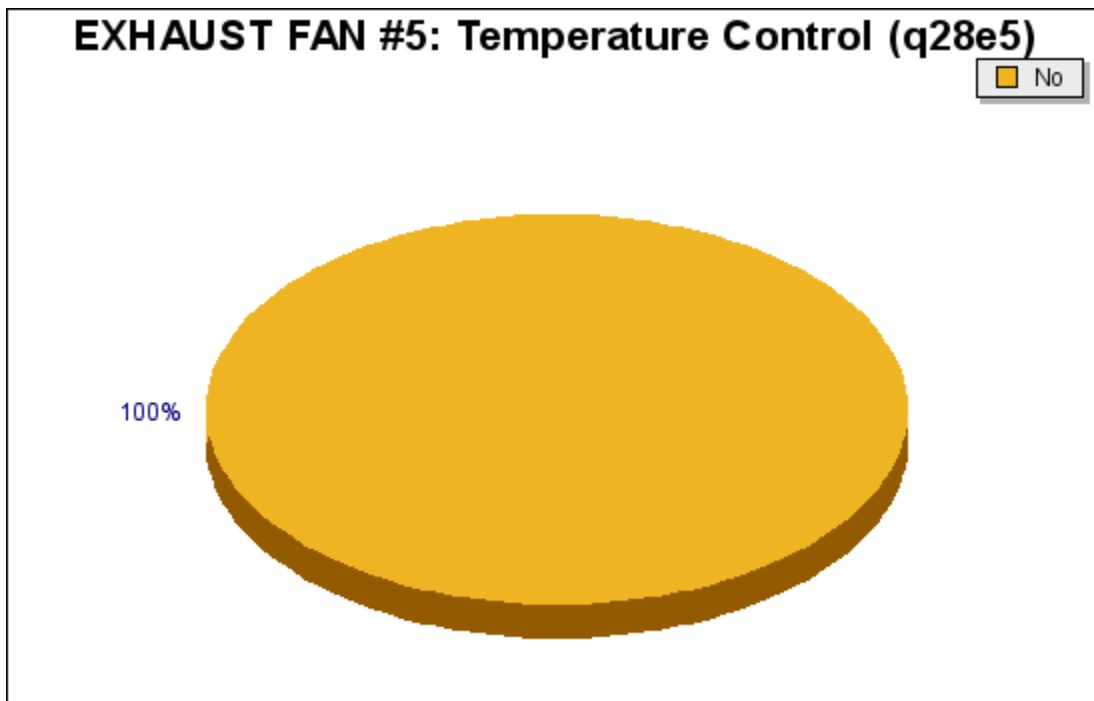
Question q28b5: EXHAUST FAN #5: Area (Square Feet)



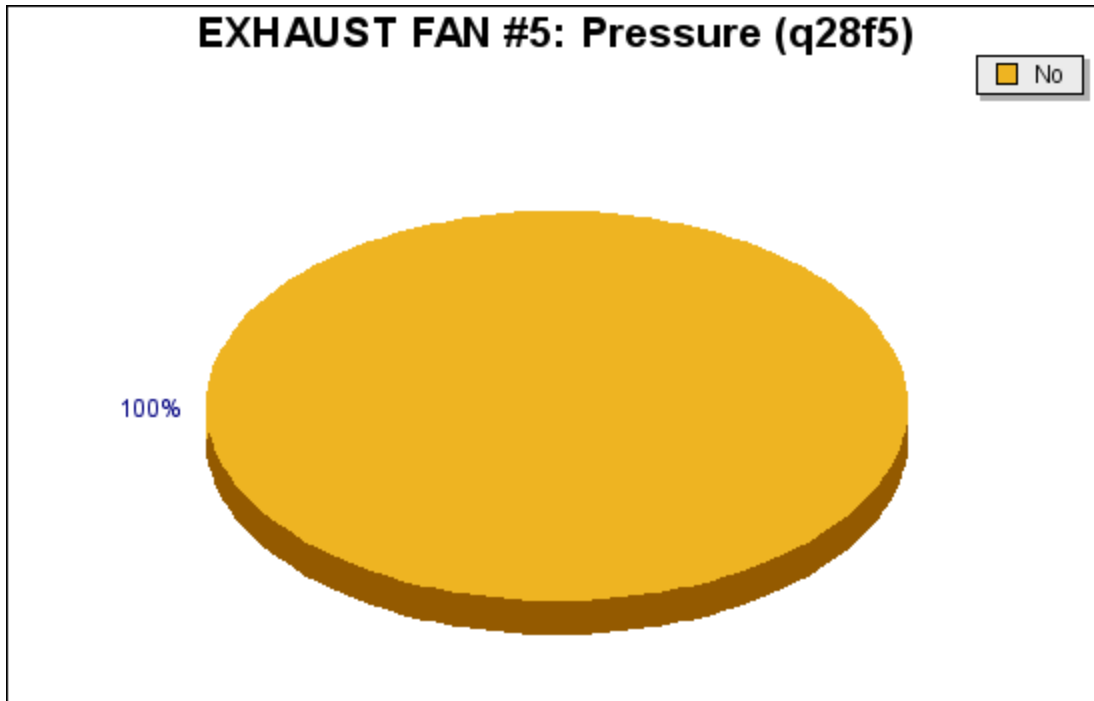
Question q28c5: EXHAUST FAN #5: Manual Control



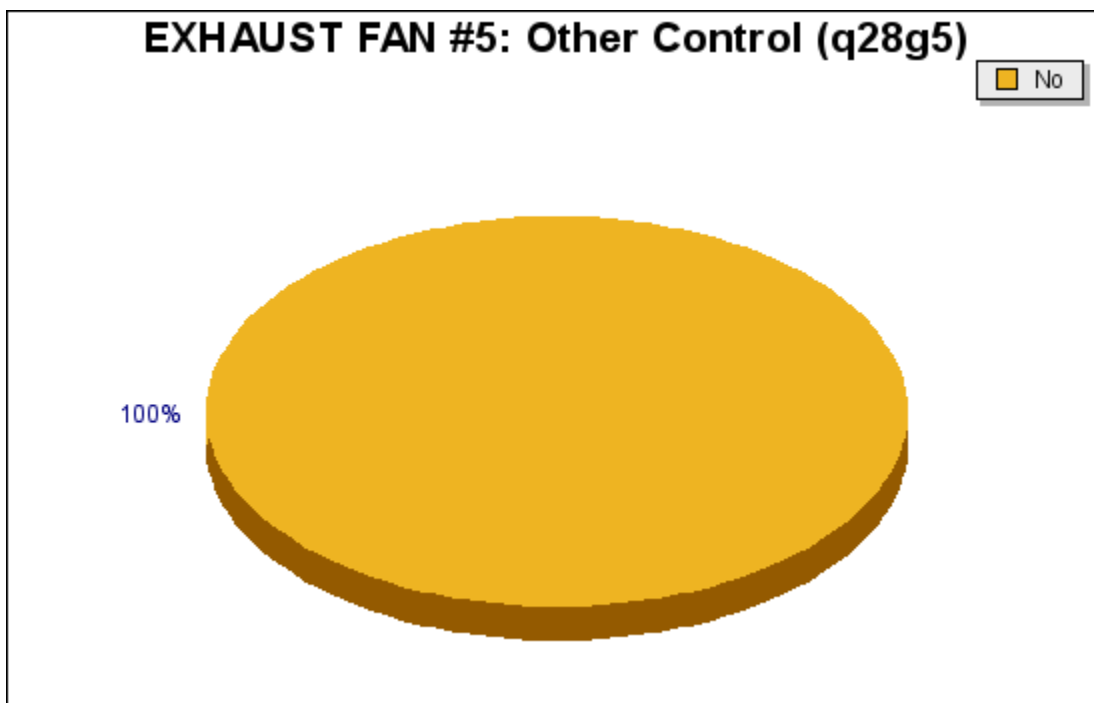
Question q28d5: EXHAUST FAN #5: Time of Day Control



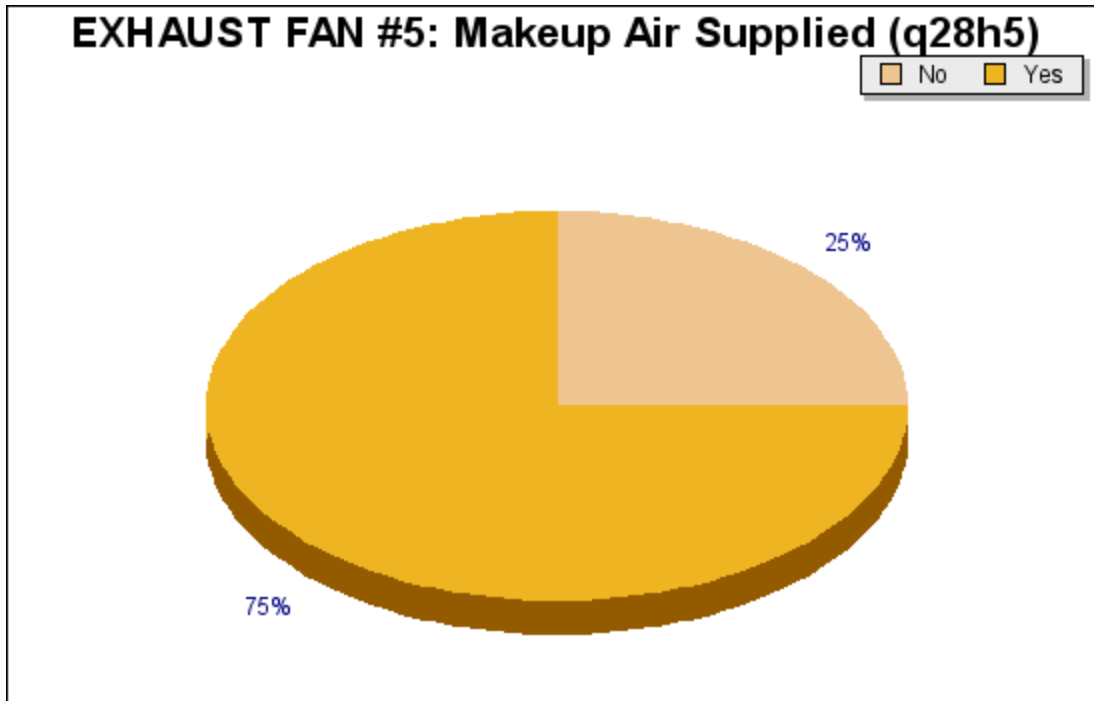
Question q28e5: EXHAUST FAN #5: Temperature Control



Question q28f5: EXHAUST FAN #5: Pressure

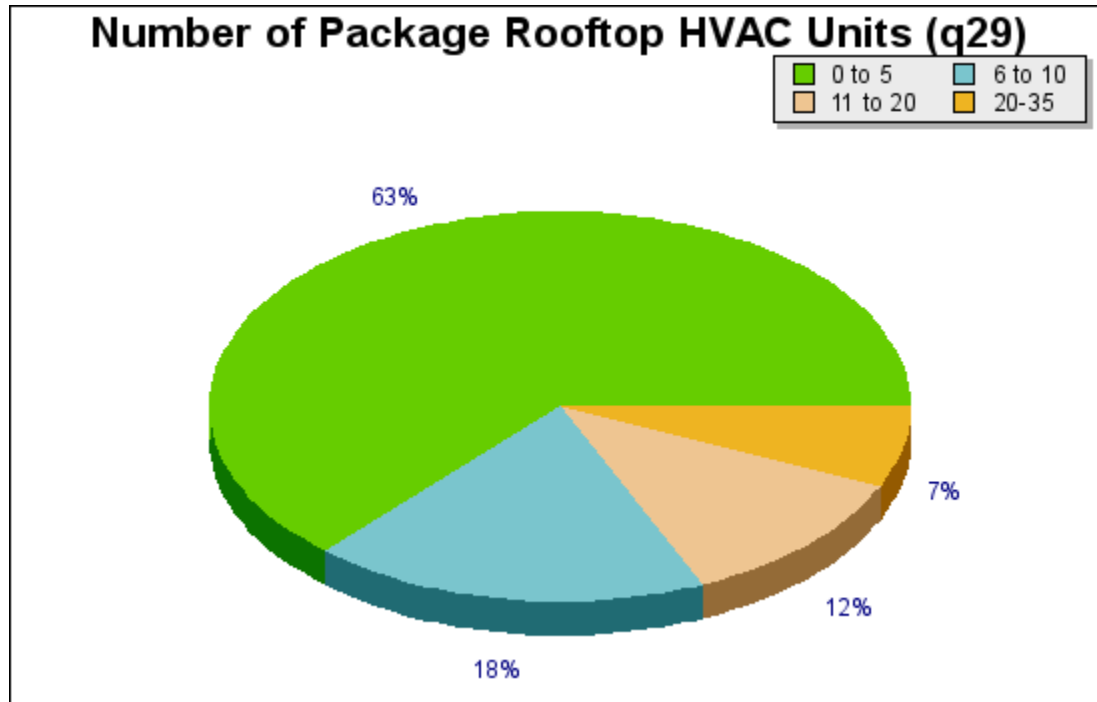


Question q28g5: EXHAUST FAN #5: Other Control



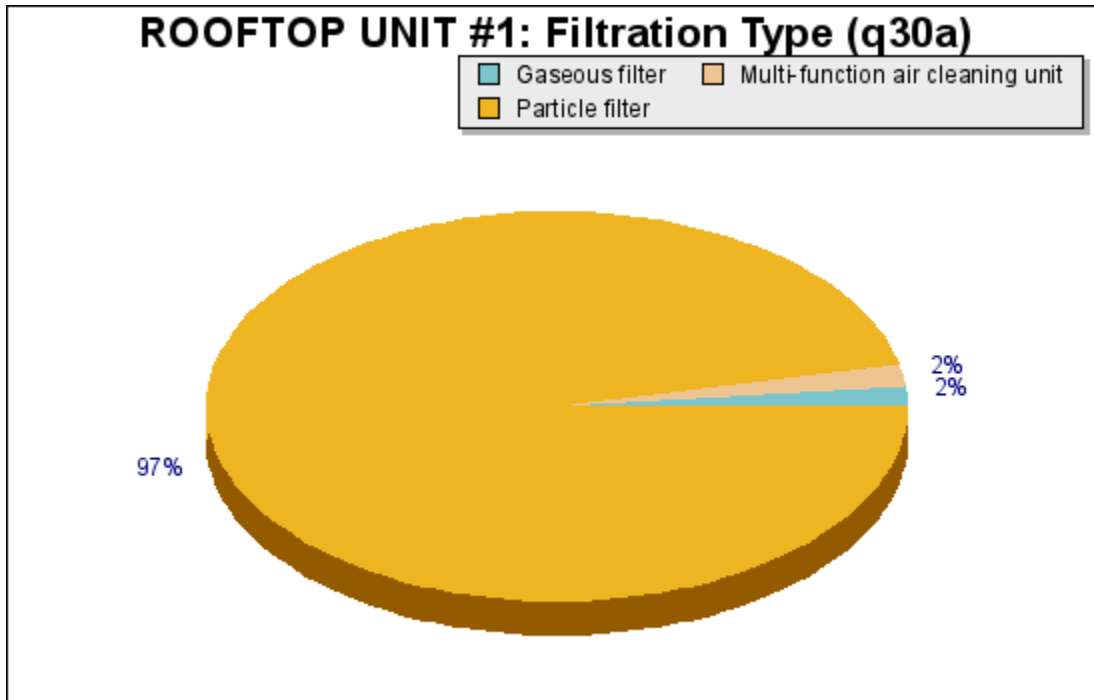
Question q28h5: EXHAUST FAN #5: Makeup Air Supplied

Filtration And Air Cleaning Systems

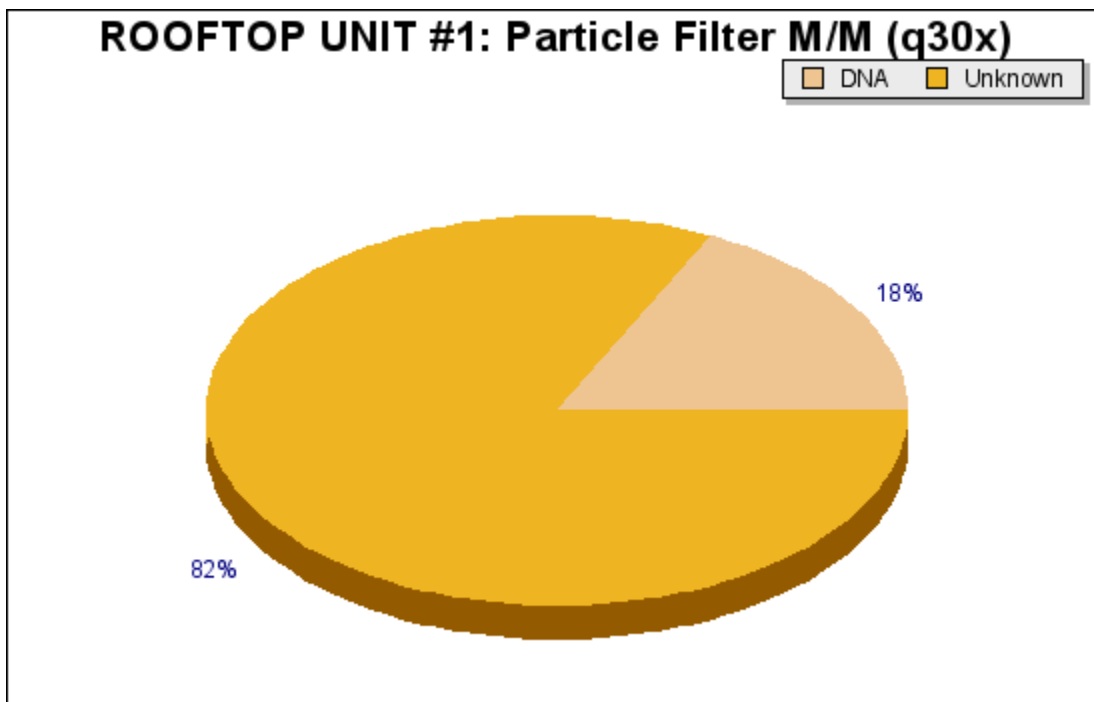


Question q29: Number of Package Rooftop HVAC Units

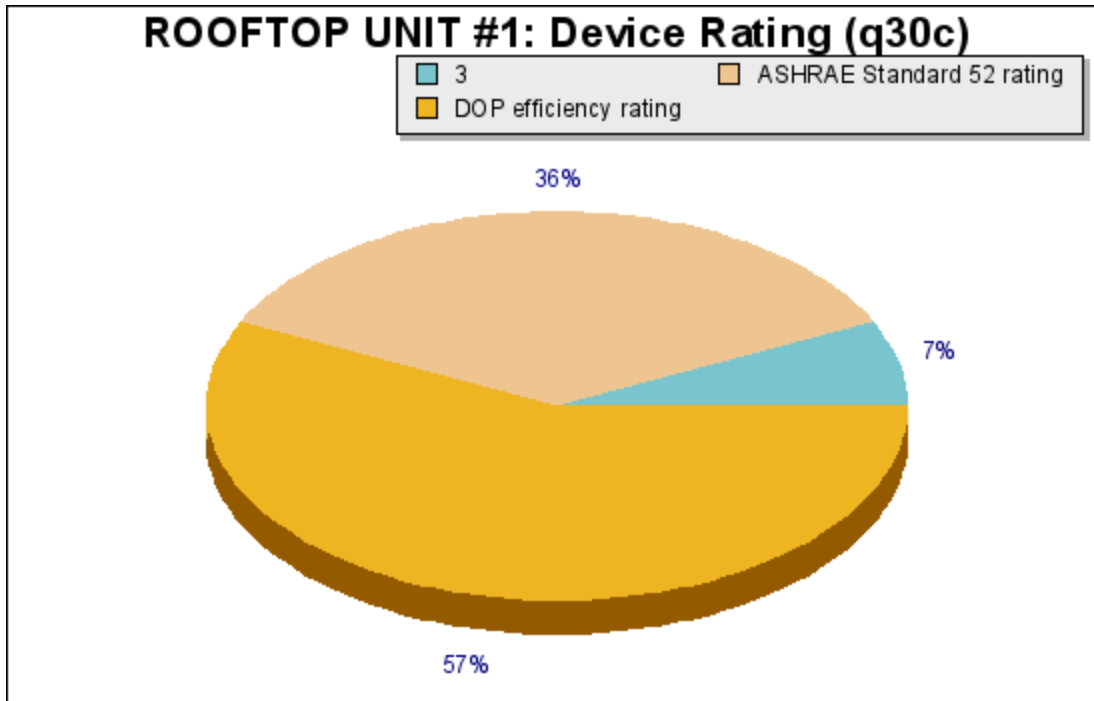
Rooftop Unit #1



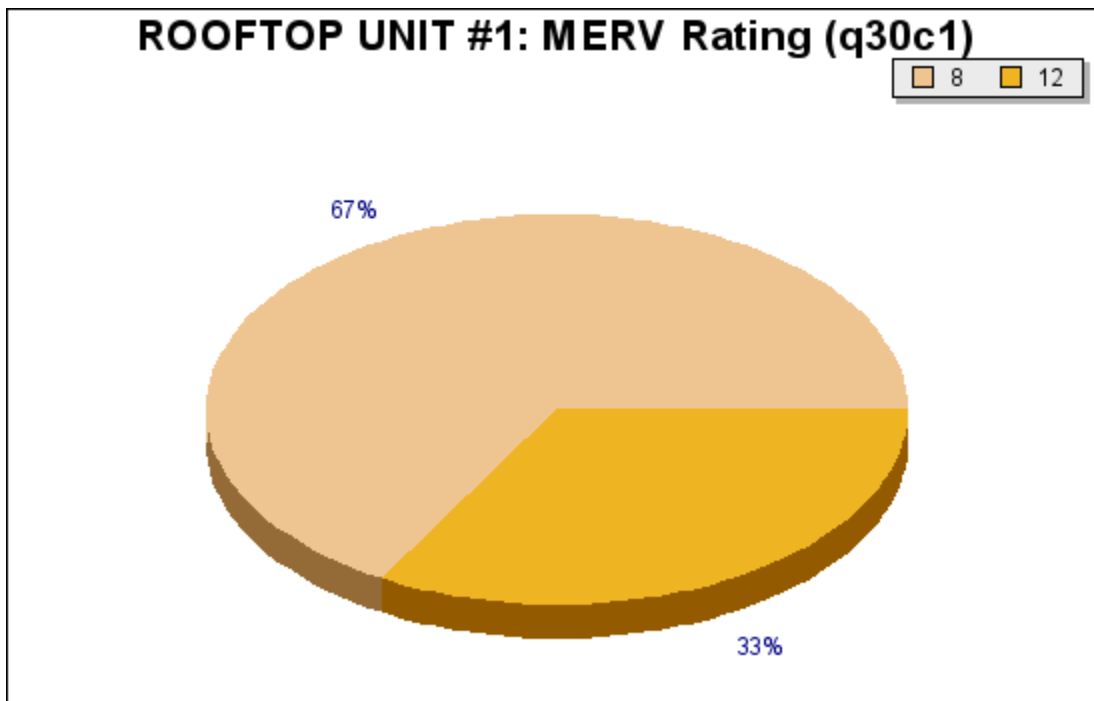
Question q30a: ROOFTOP UNIT #1: Filtration Type



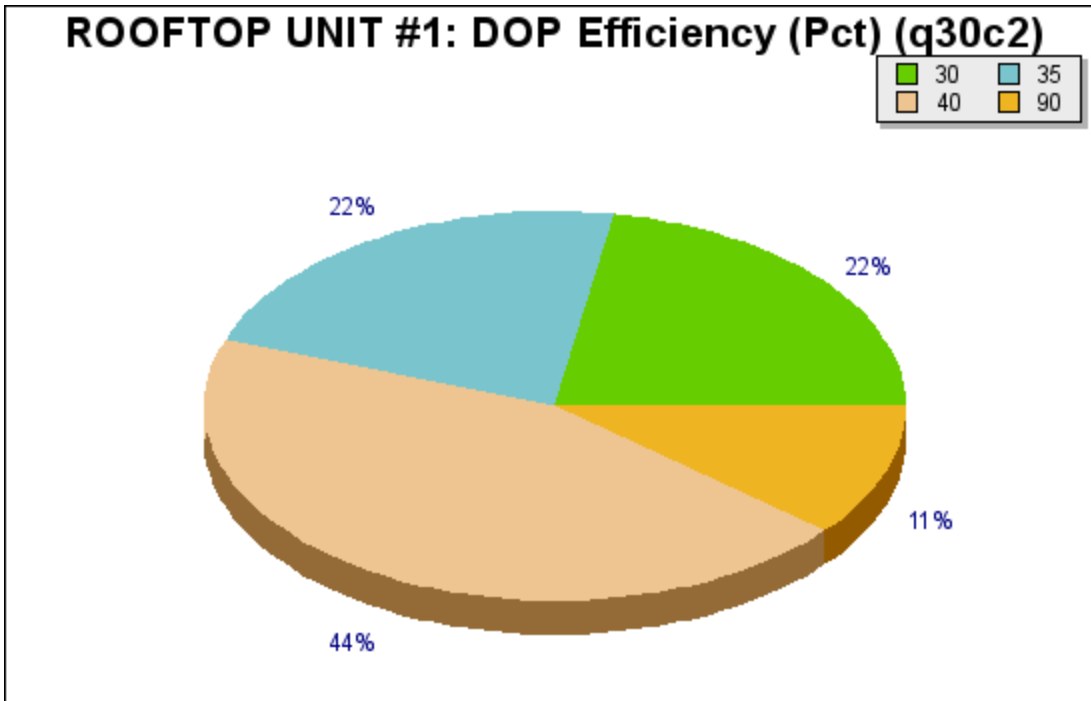
Question q30x: ROOFTOP UNIT #1: Particle Filter M/M



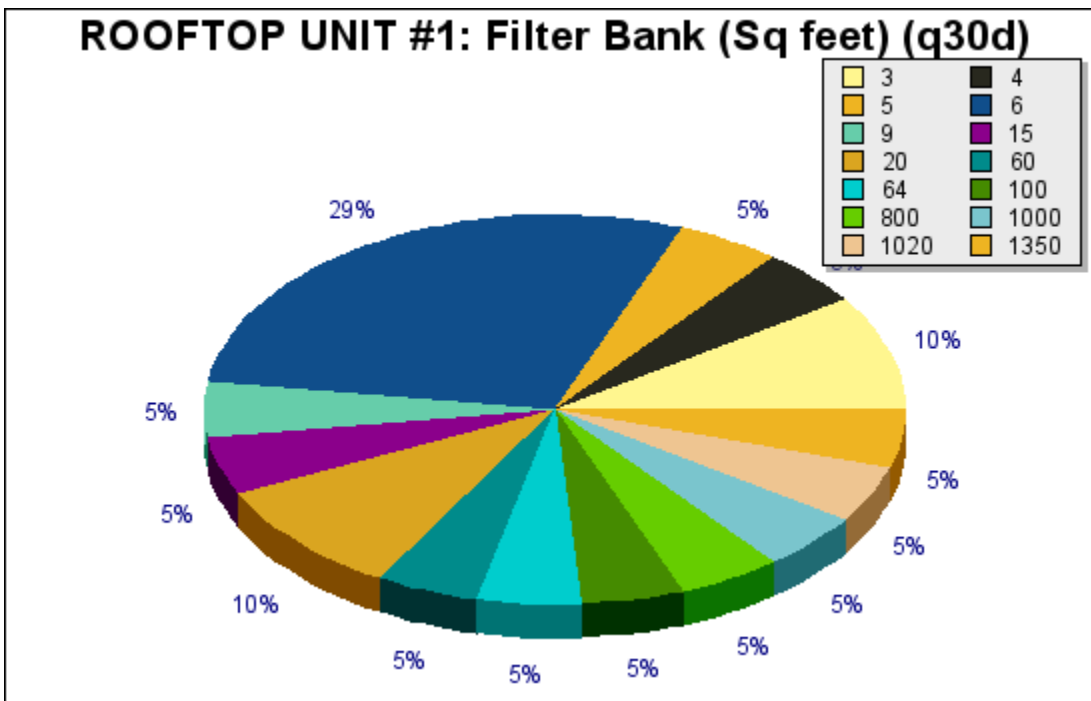
Question q30c: ROOFTOP UNIT #1: Device Rating



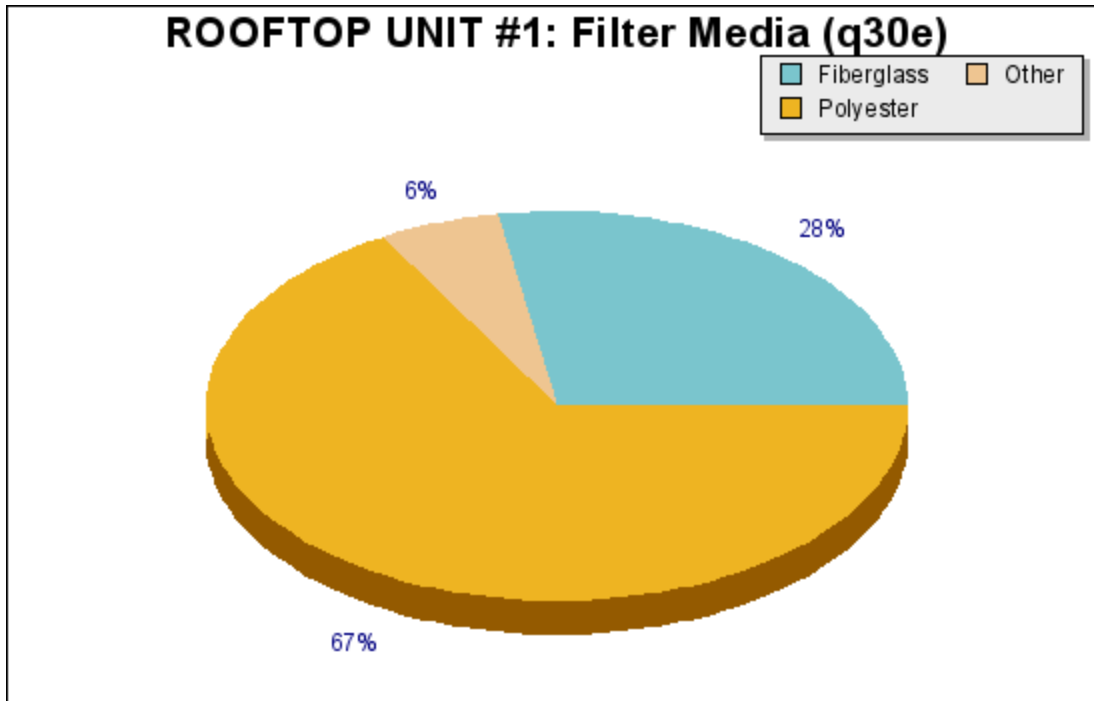
Question q30c1: ROOFTOP UNIT #1: MERV Rating



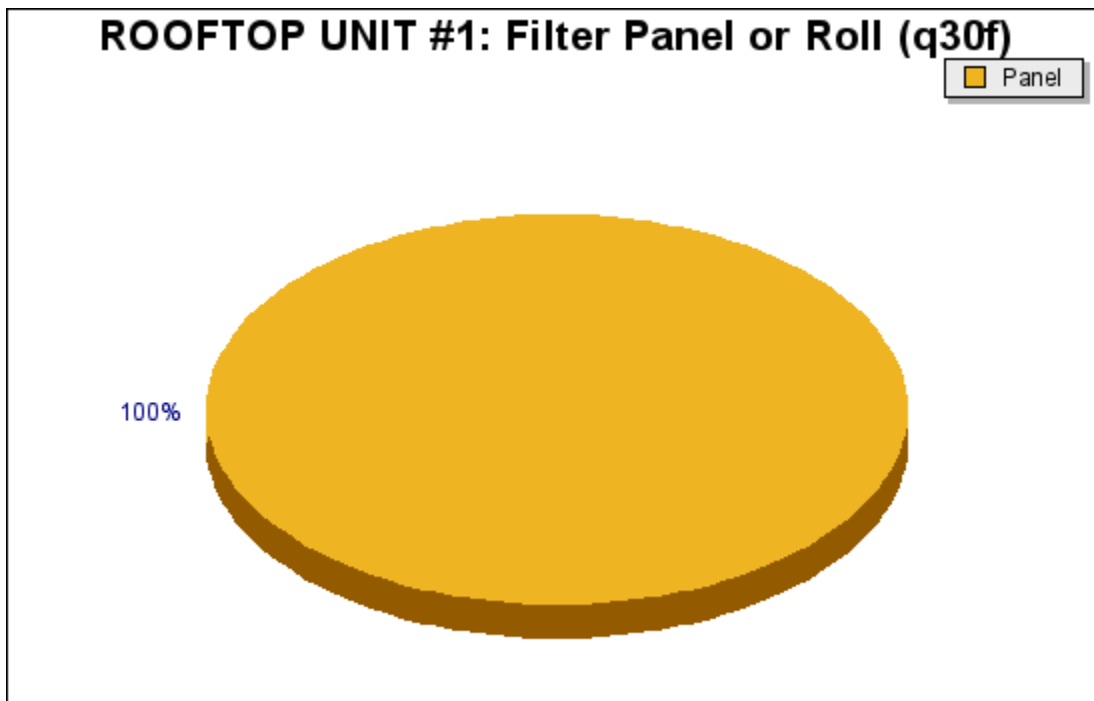
Question q30c2: ROOFTOP UNIT #1: DOP Efficiency (Pct)



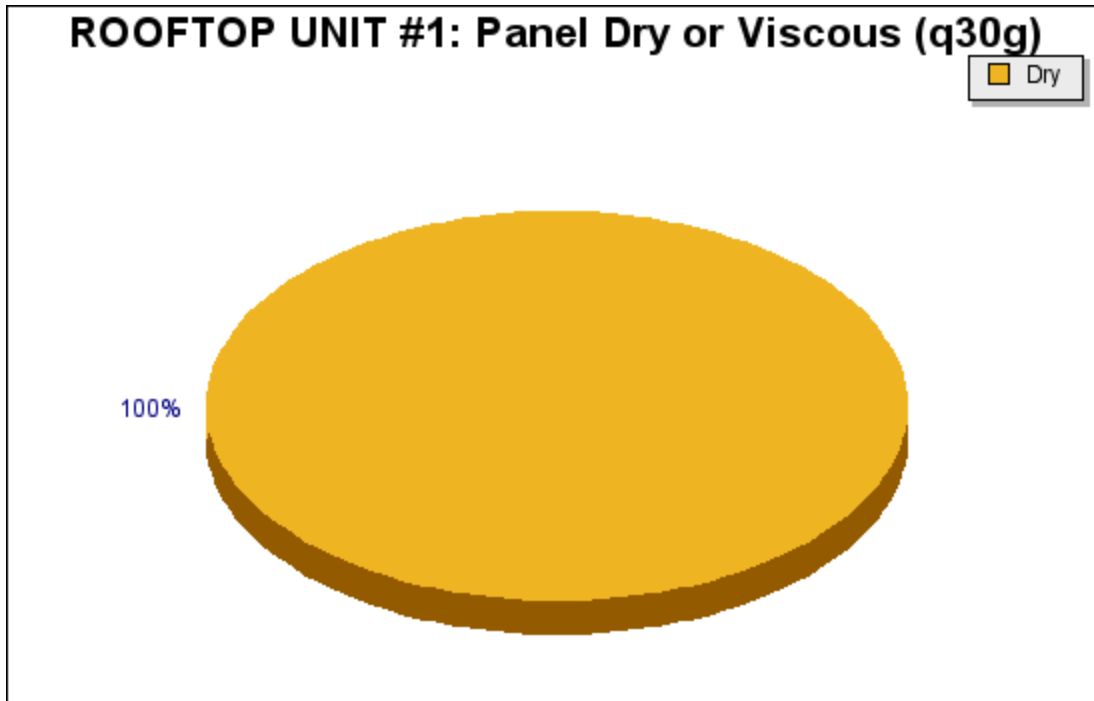
Question q30d: ROOFTOP UNIT #1: Filter Bank (Sq feet)



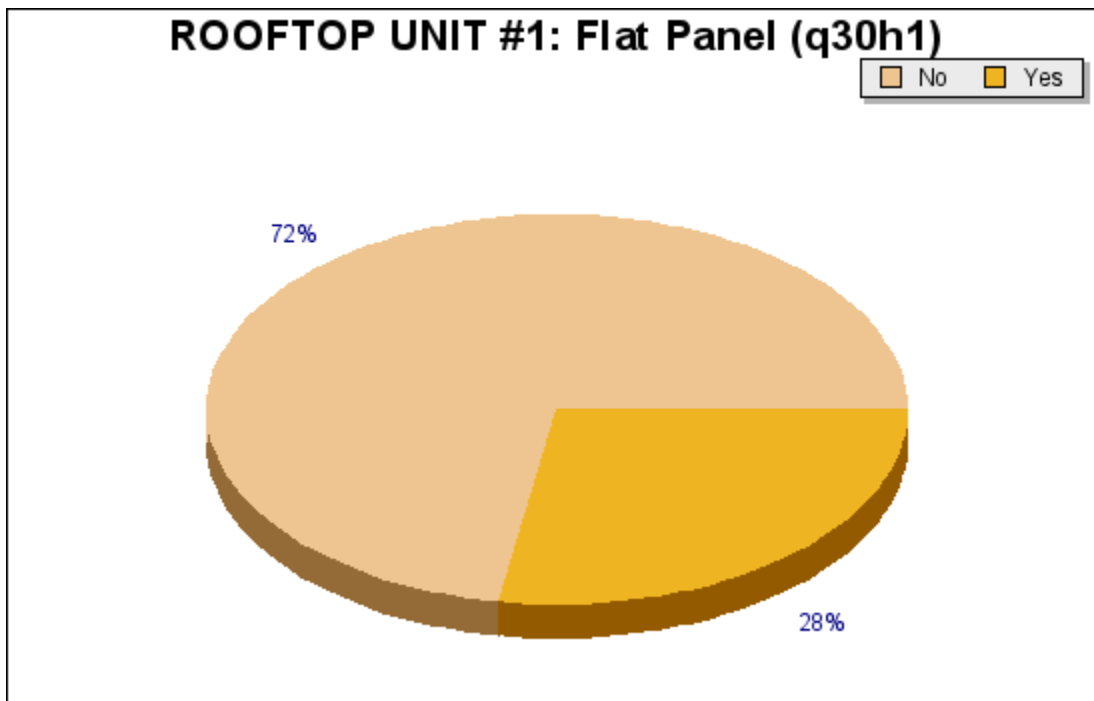
Question q30e: ROOFTOP UNIT #1: Filter Media



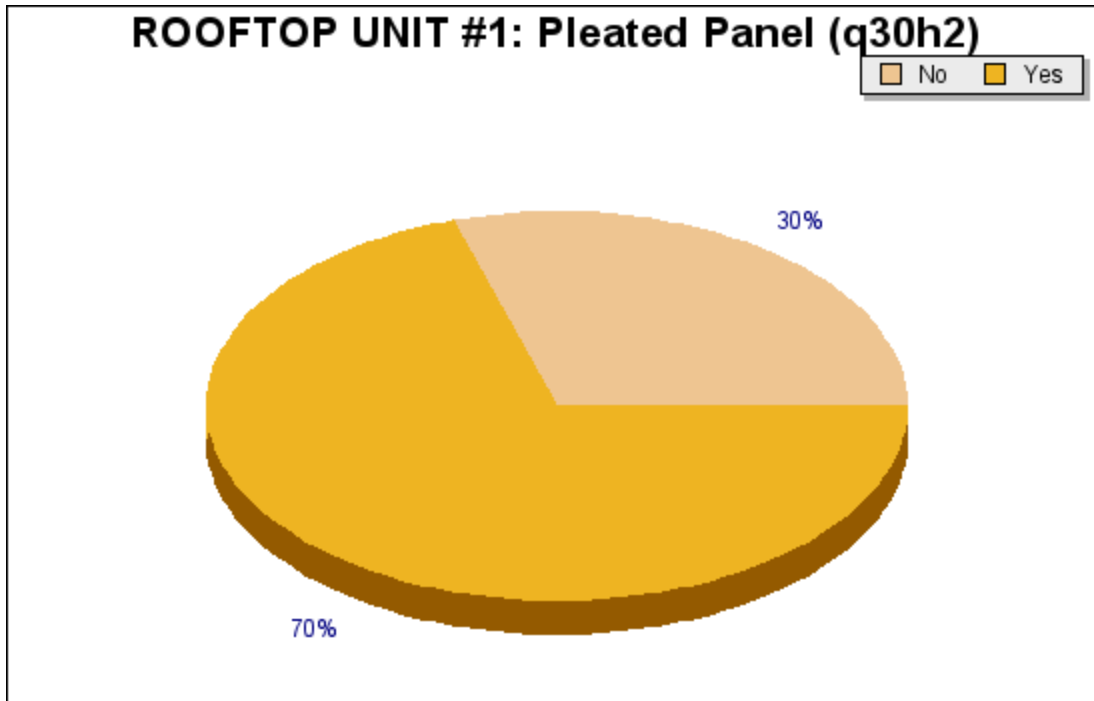
Question q30f: ROOFTOP UNIT #1: Filter Panel or Roll



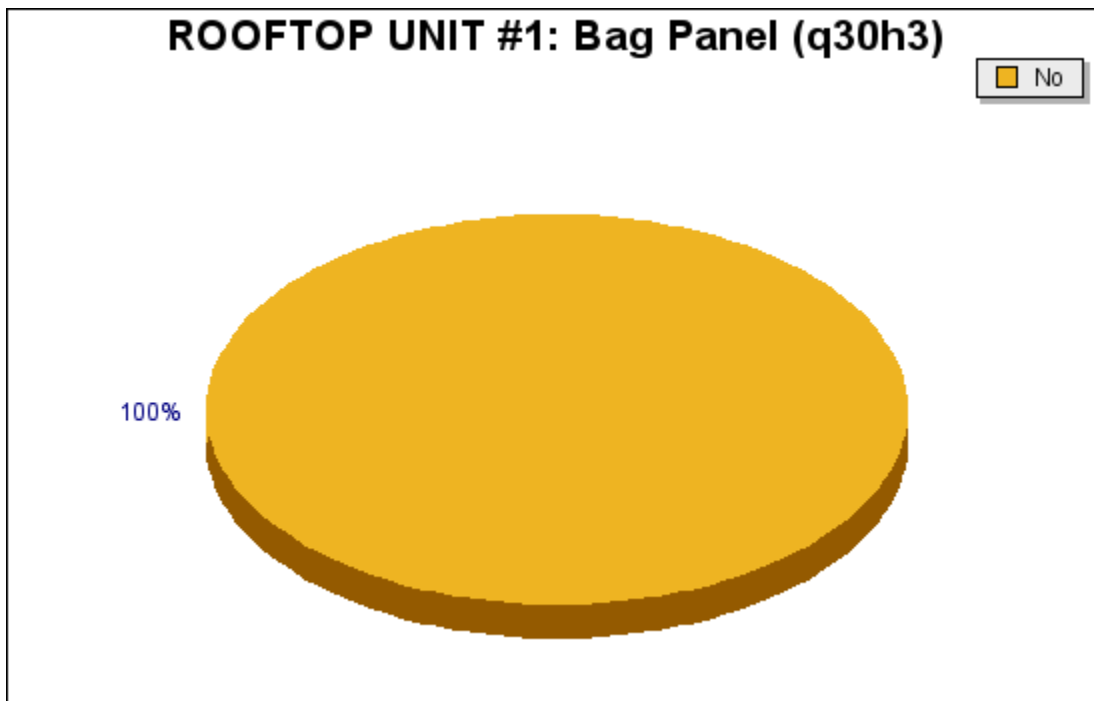
Question q30g: ROOFTOP UNIT #1: Panel Dry or Viscous



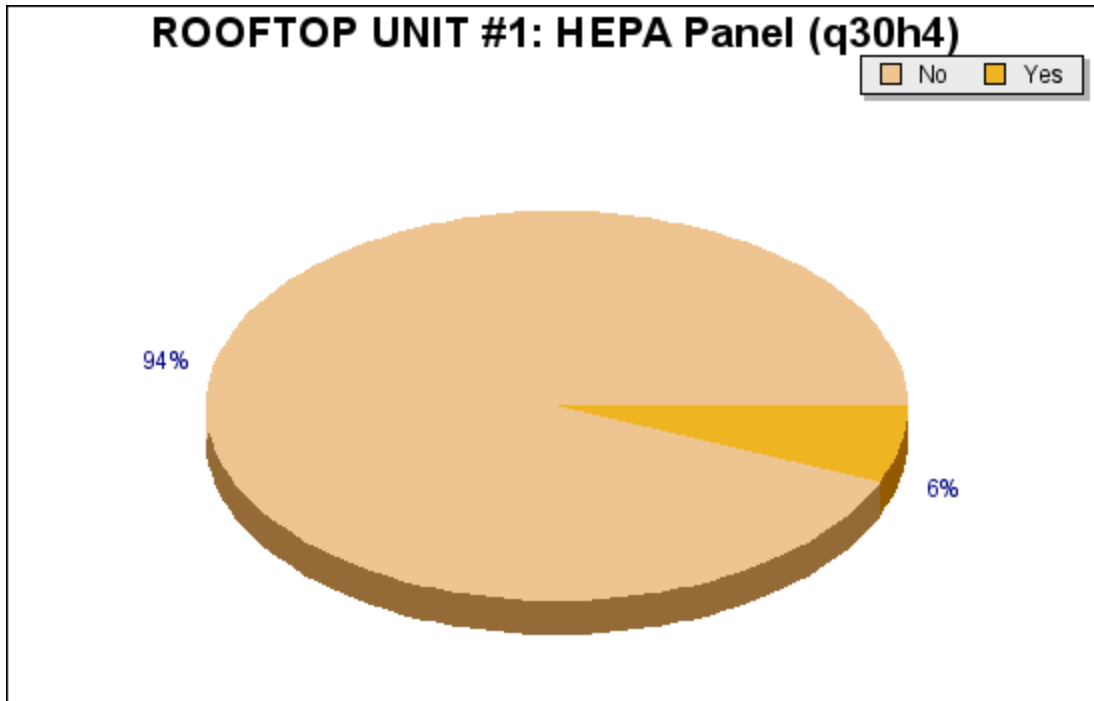
Question q30h1: ROOFTOP UNIT #1: Flat Panel



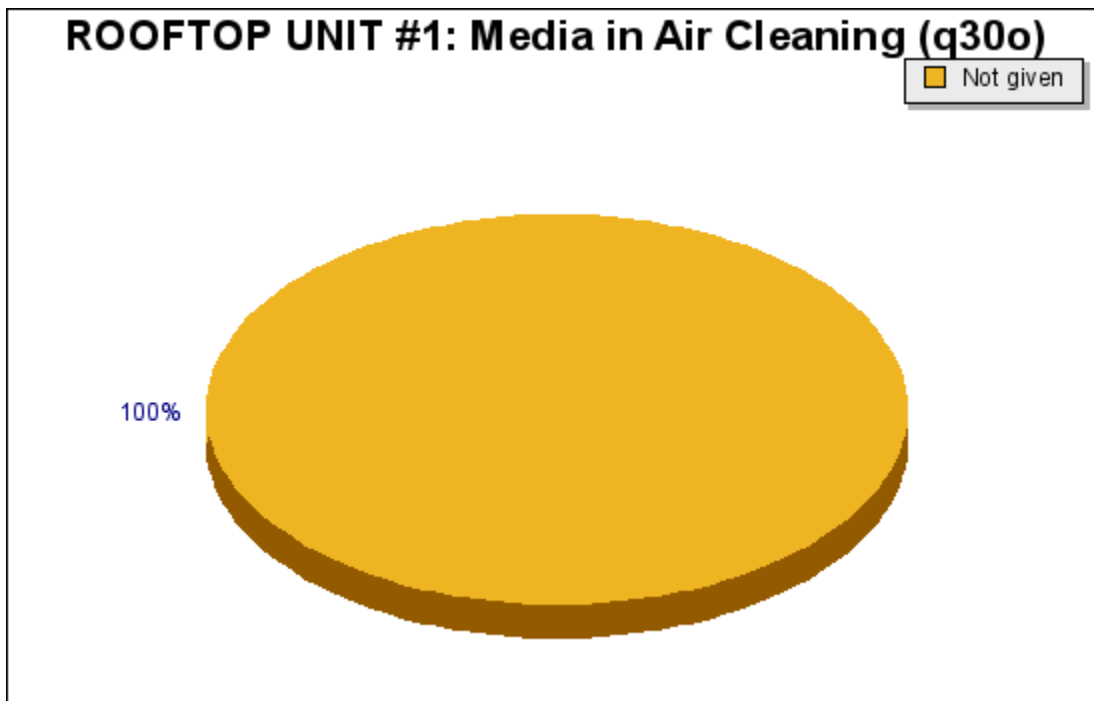
Question q30h2: ROOFTOP UNIT #1: Pleated Panel



Question q30h3: ROOFTOP UNIT #1: Bag Panel

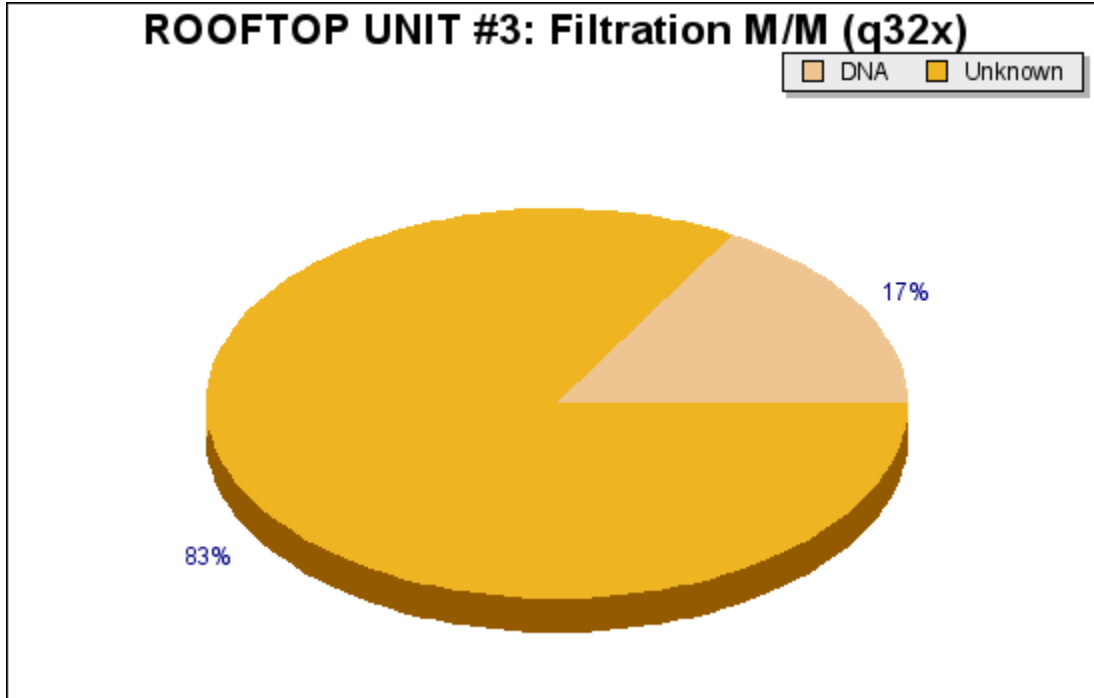


Question q30h4: ROOFTOP UNIT #1: HEPA Panel

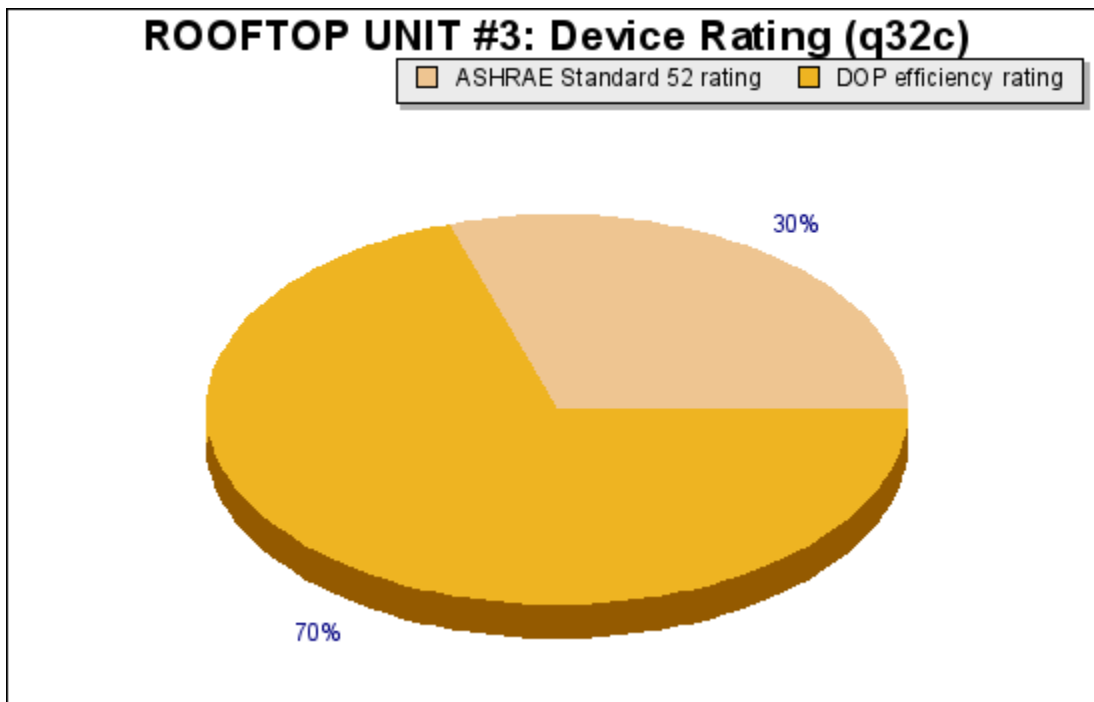


Question q30o: ROOFTOP UNIT #1: Media in Air Cleaning

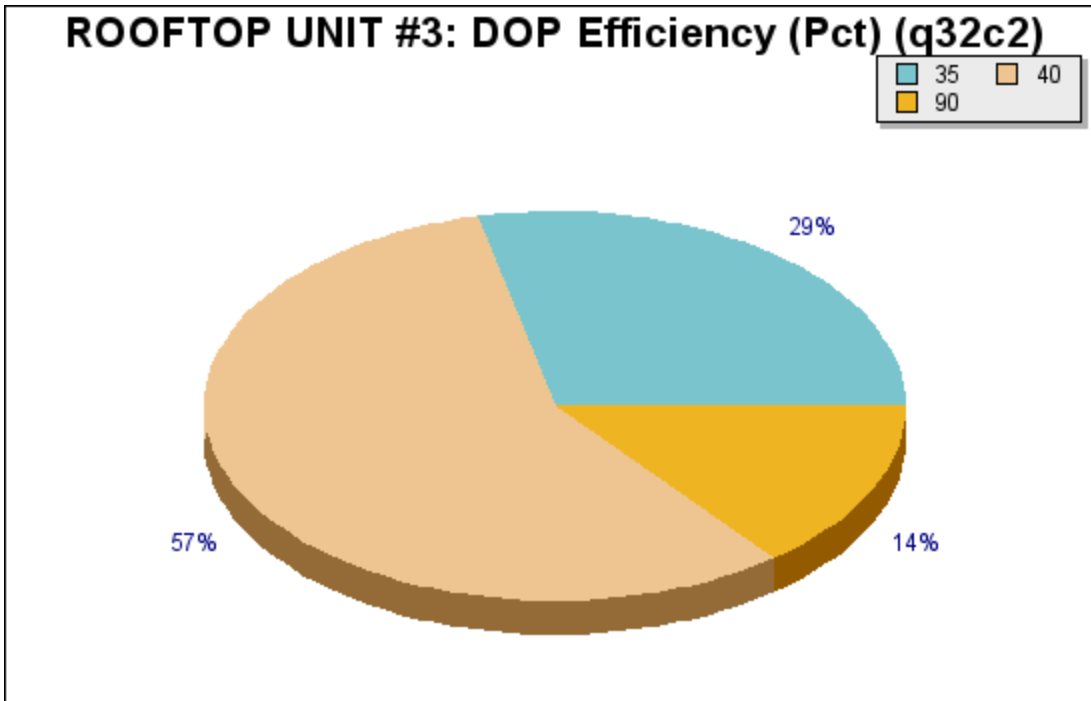
Rooftop Unit #3



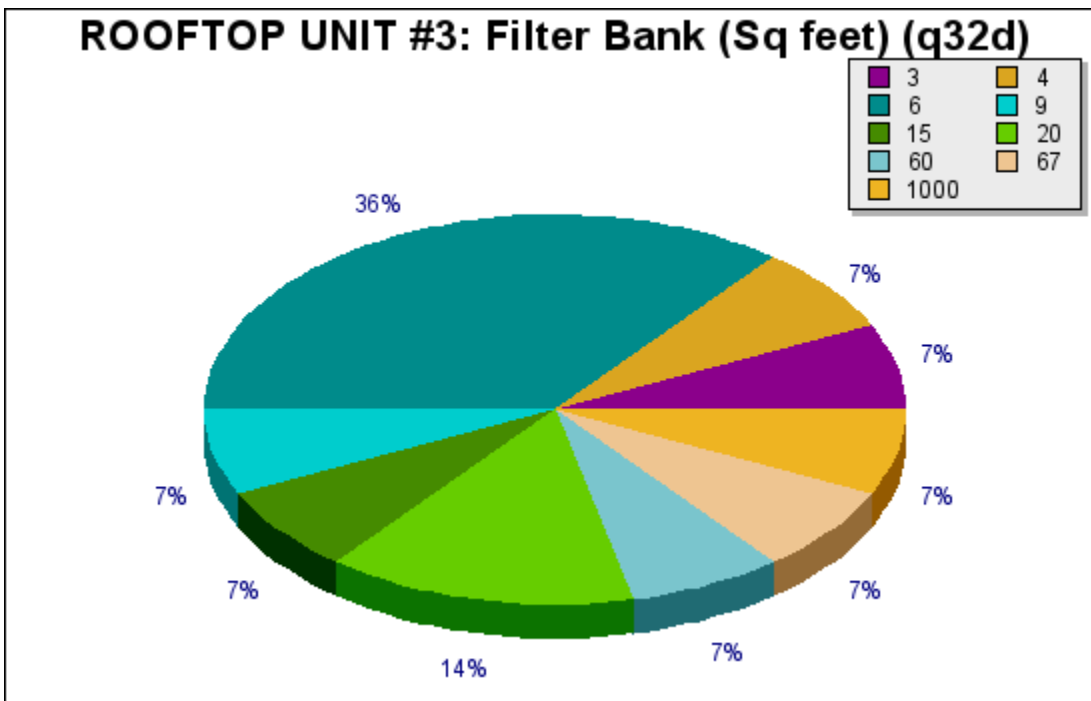
Question q32x: ROOFTOP UNIT #3: Filtration M/M



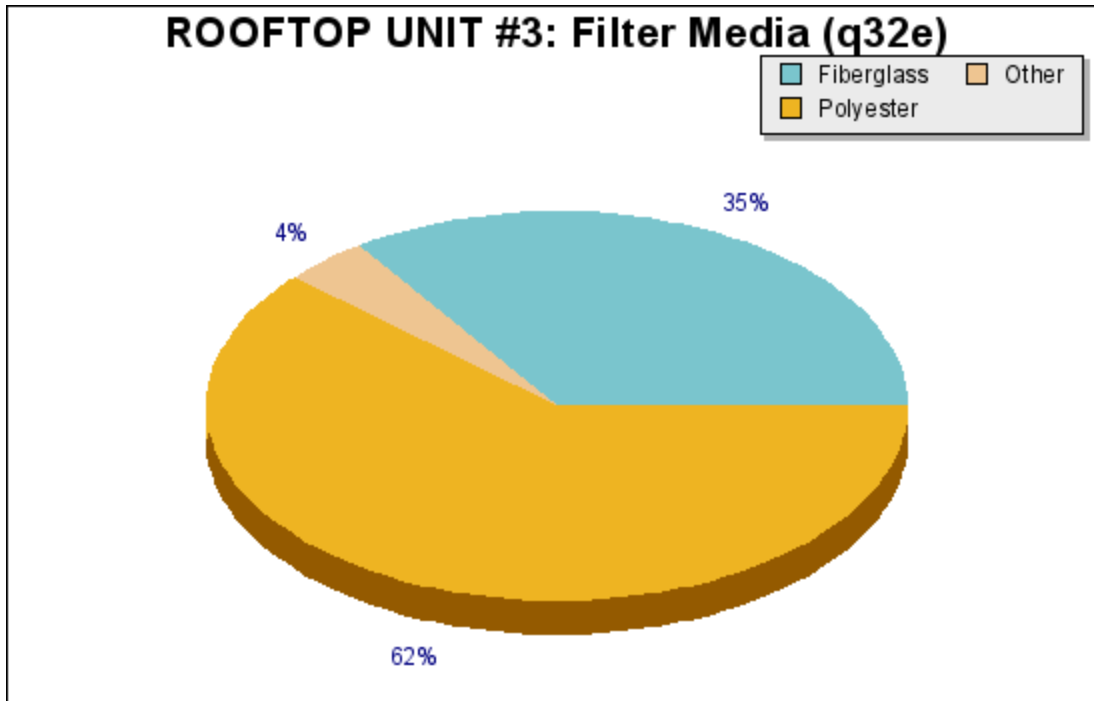
Question q32c: ROOFTOP UNIT #3: Device Rating



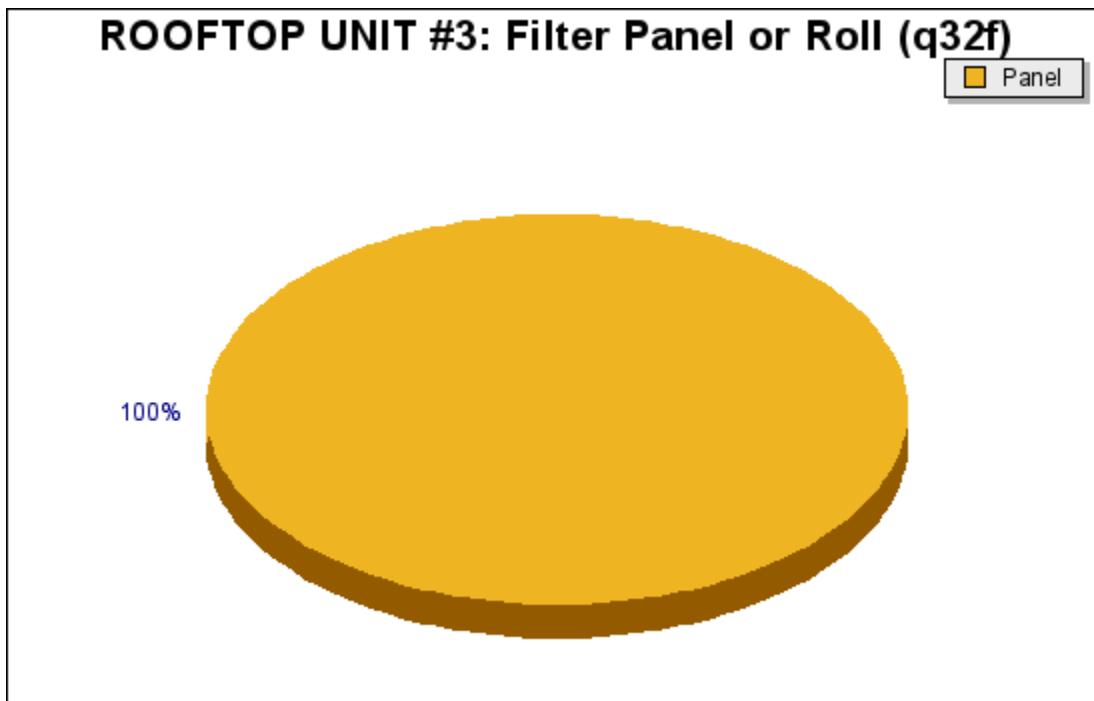
Question q32c2: ROOFTOP UNIT #3: DOP Efficiency (Pct)



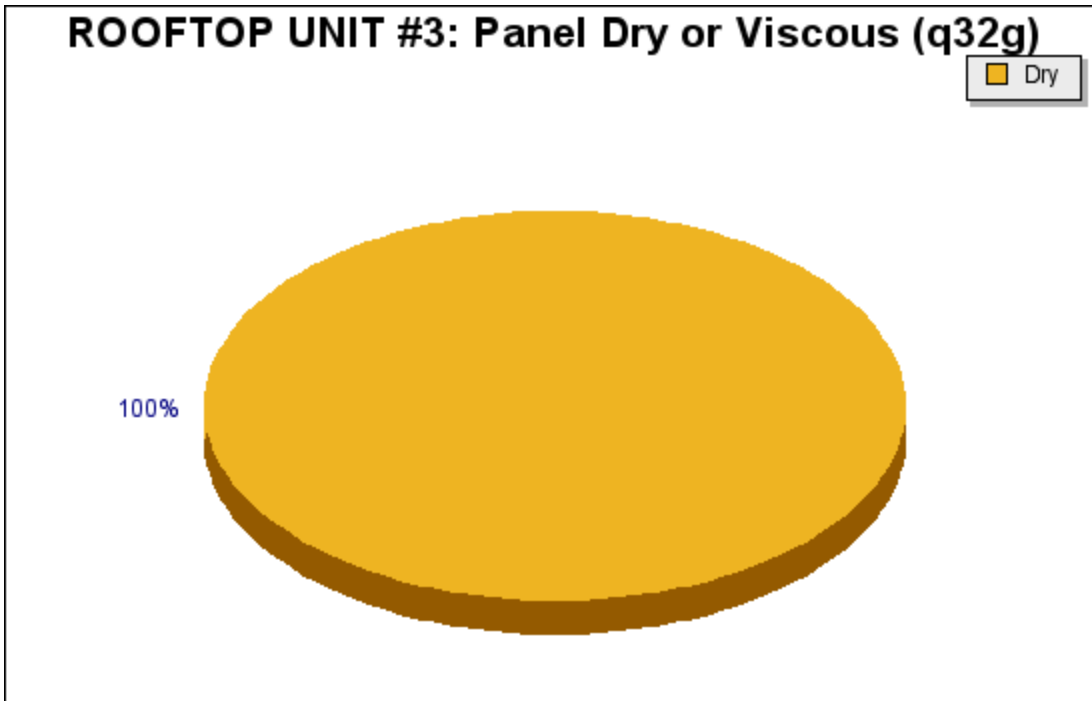
Question q32d: ROOFTOP UNIT #3: Filter Bank (Sq feet)



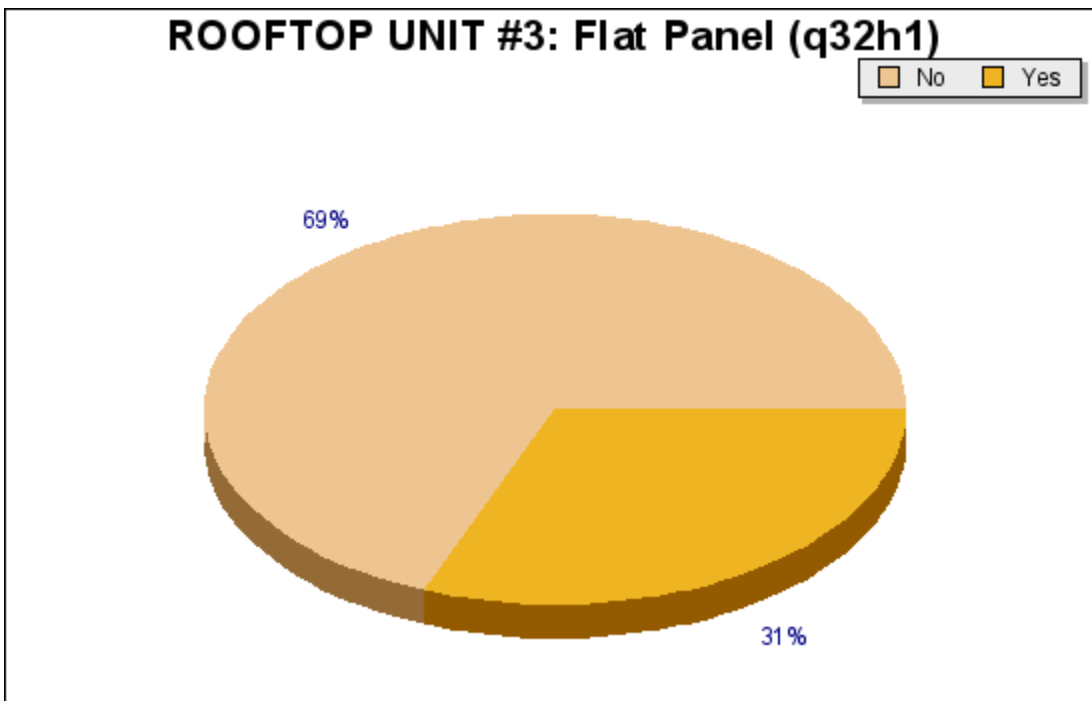
Question q32e: ROOFTOP UNIT #3: Filter Media



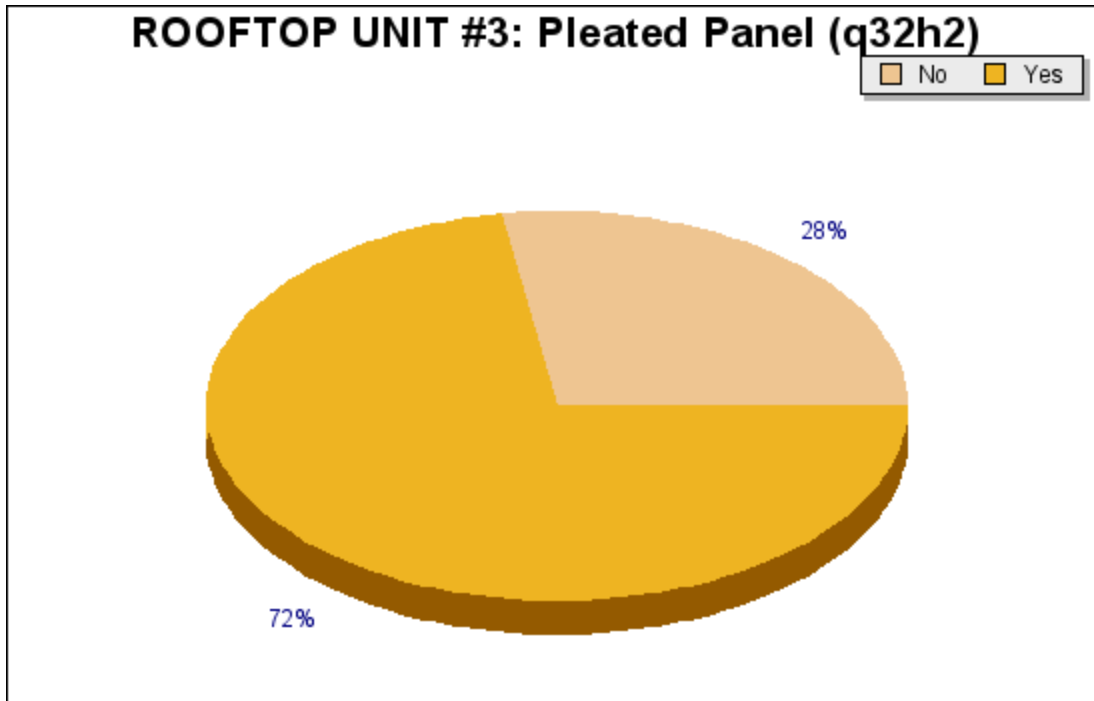
Question q32f: ROOFTOP UNIT #3: Filter Panel or Roll



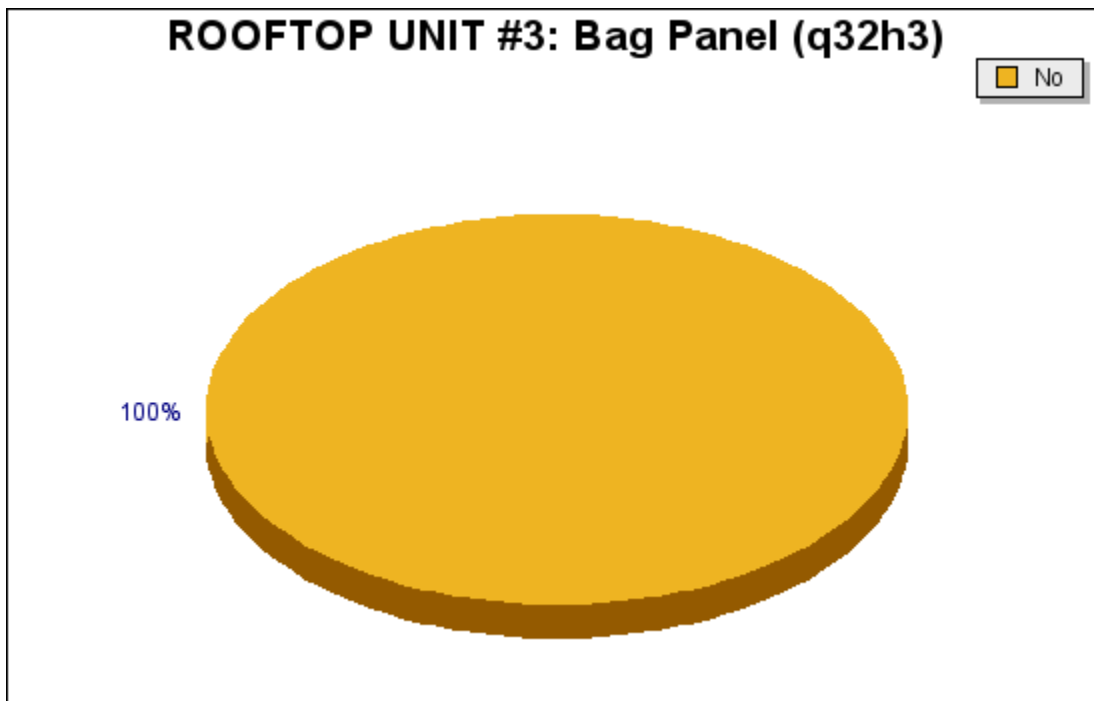
Question q32g: ROOFTOP UNIT #3: Panel Dry or Viscous



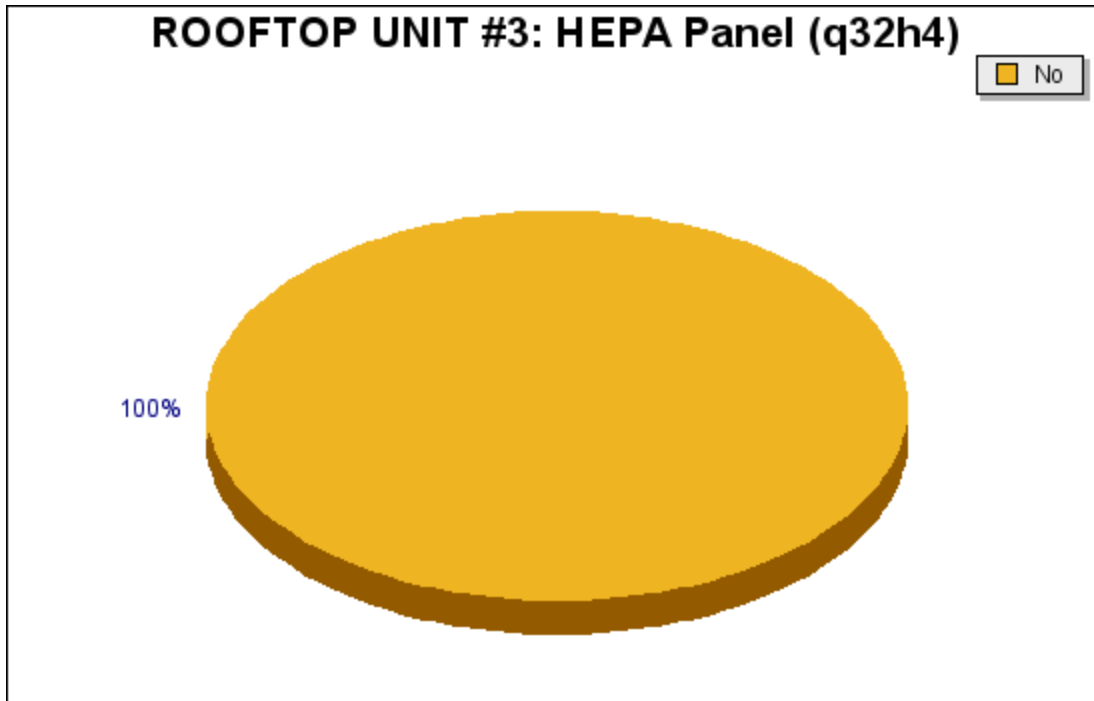
Question q32h1: ROOFTOP UNIT #3: Flat Panel



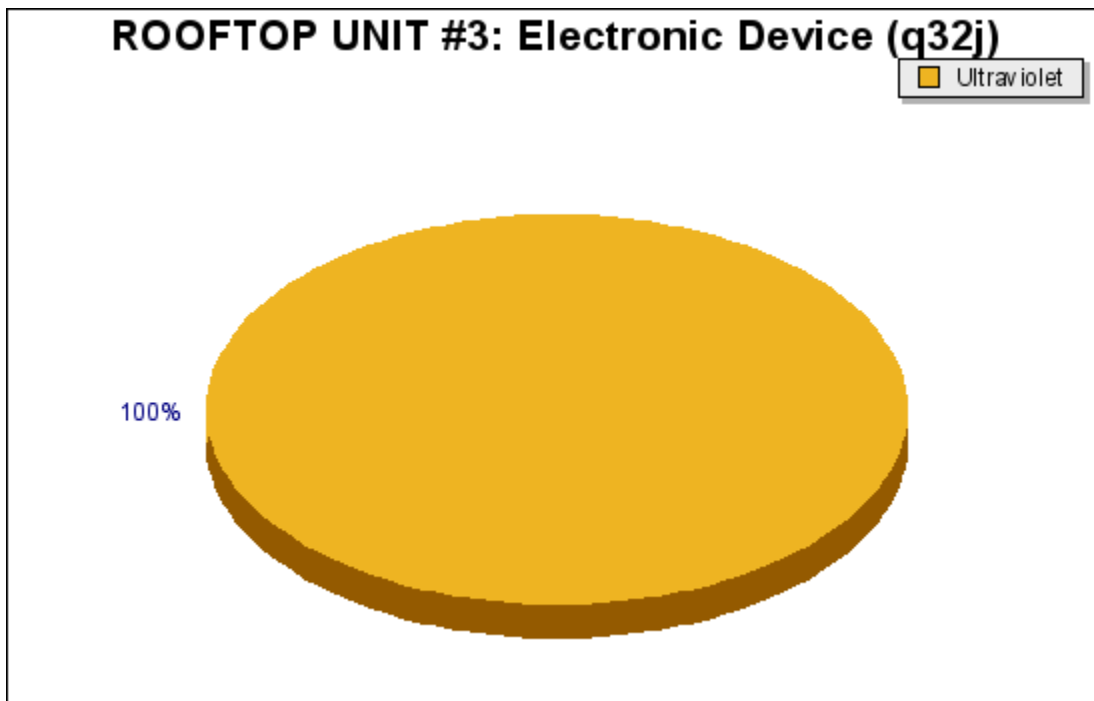
Question q32h2: ROOFTOP UNIT #3: Pleated Panel



Question q32h3: ROOFTOP UNIT #3: Bag Panel

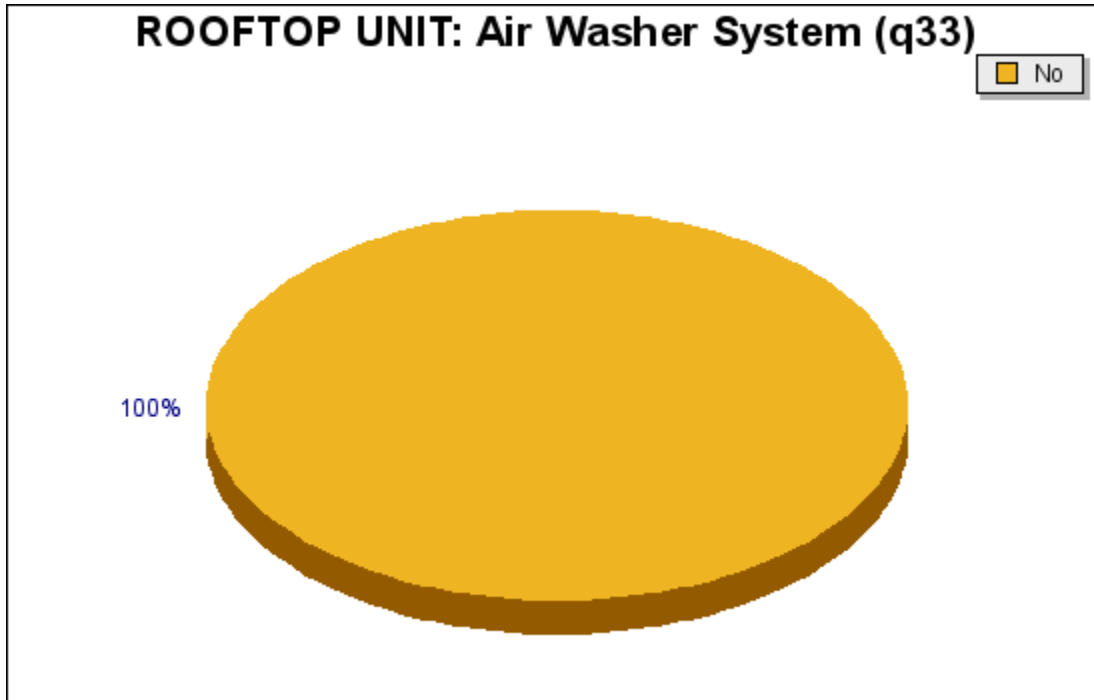


Question q32h4: ROOFTOP UNIT #3: HEPA Panel



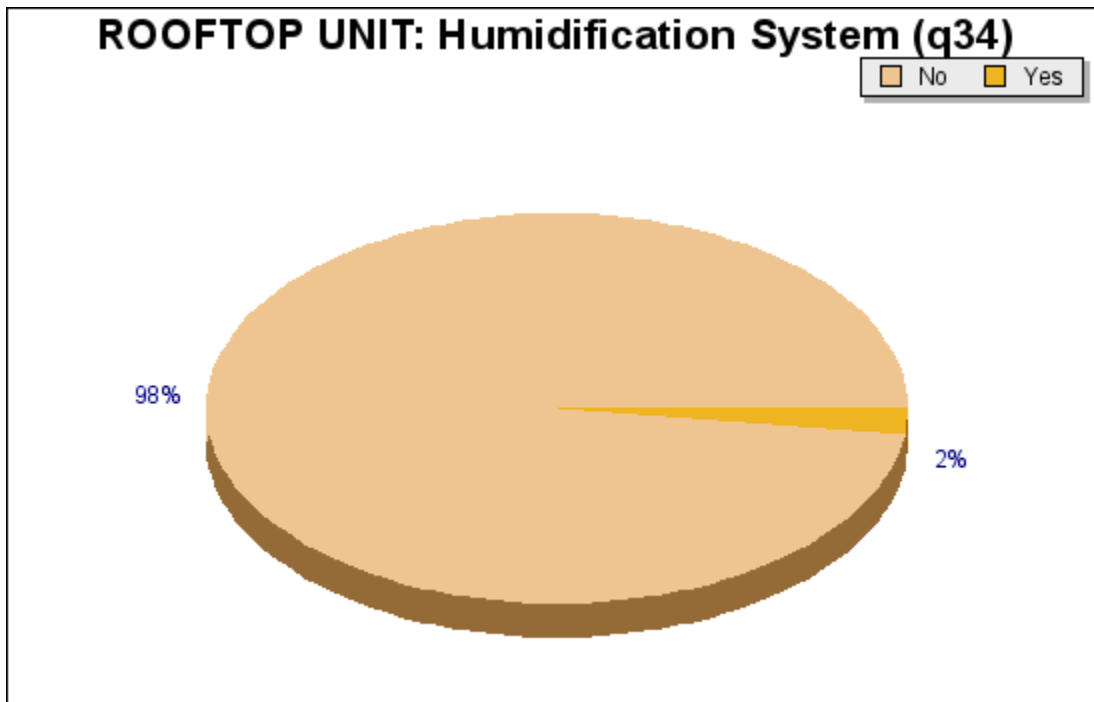
Question q32j: ROOFTOP UNIT #3: Electronic Device

Air Washers



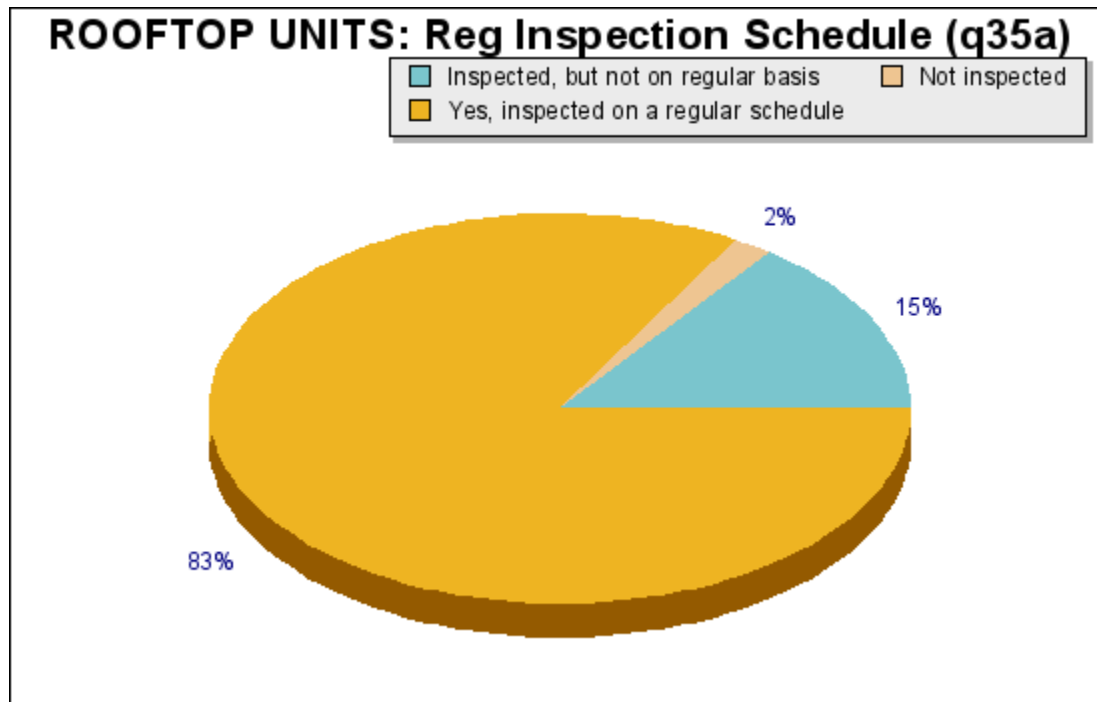
Question q33: ROOFTOP UNIT: Air Washer System

Humidification Systems

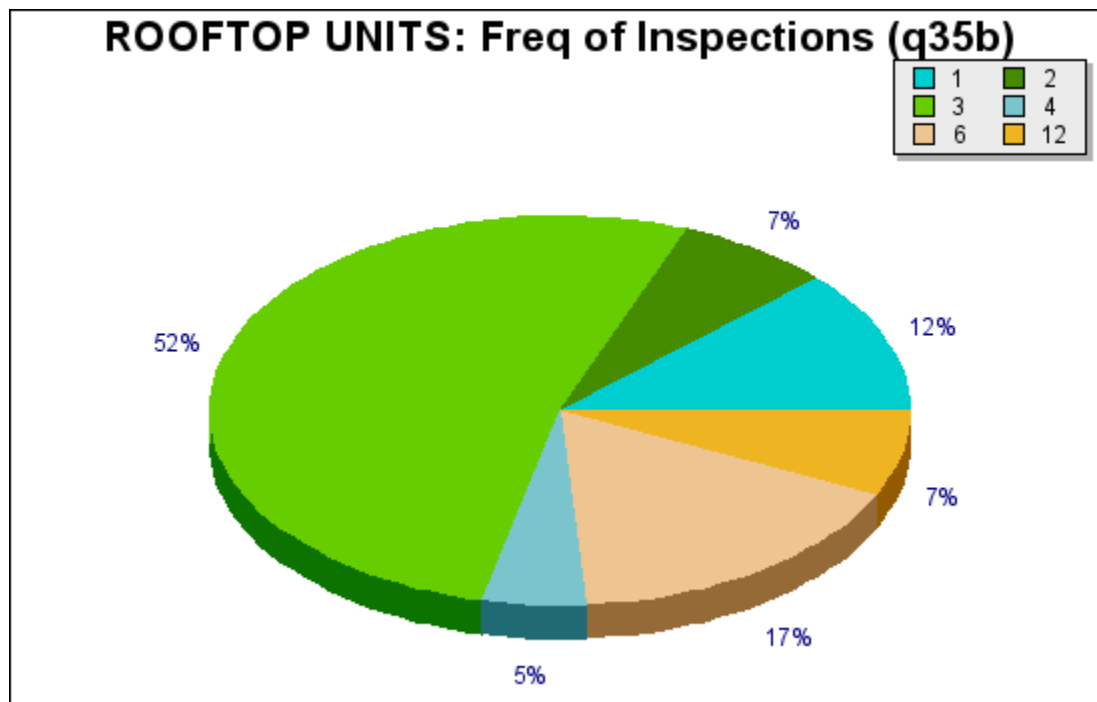


Question q34: ROOFTOP UNIT: Humidification System

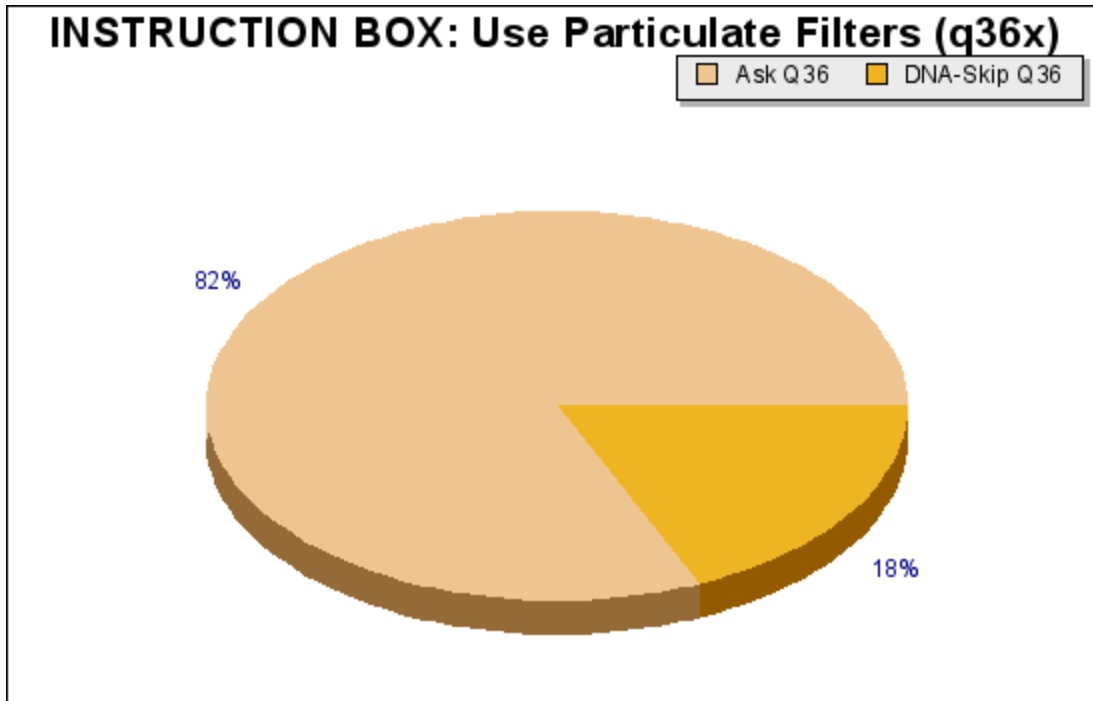
Air Handler Inspections



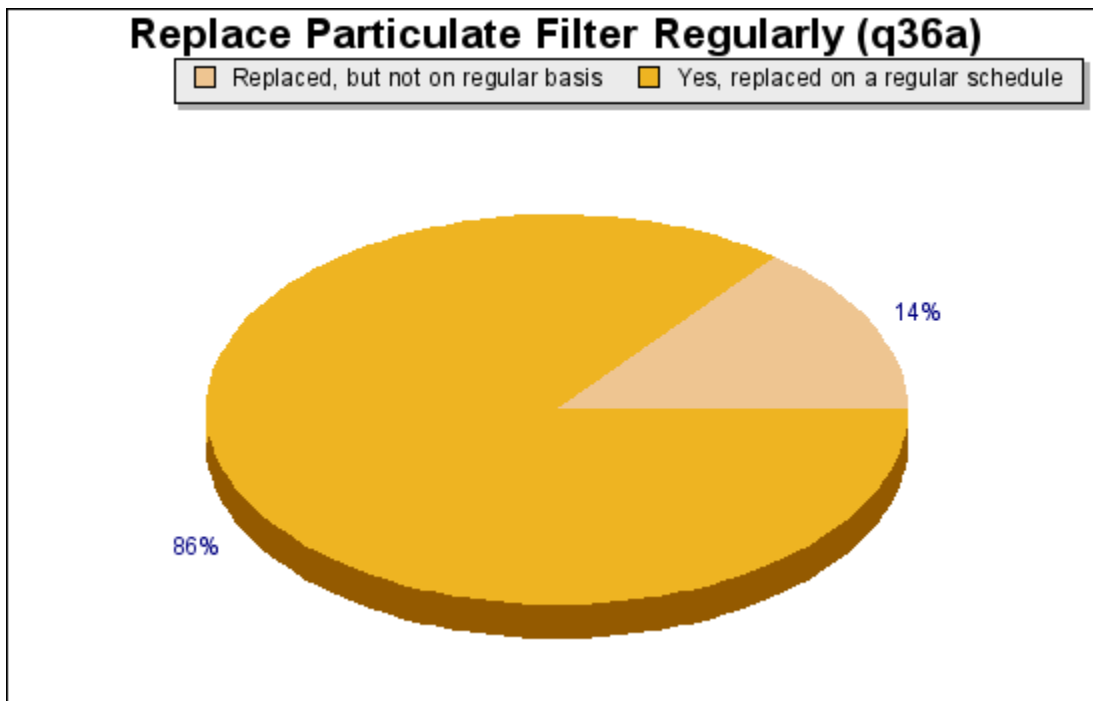
Question q35a: ROOFTOP UNITS: Reg Inspection Schedule



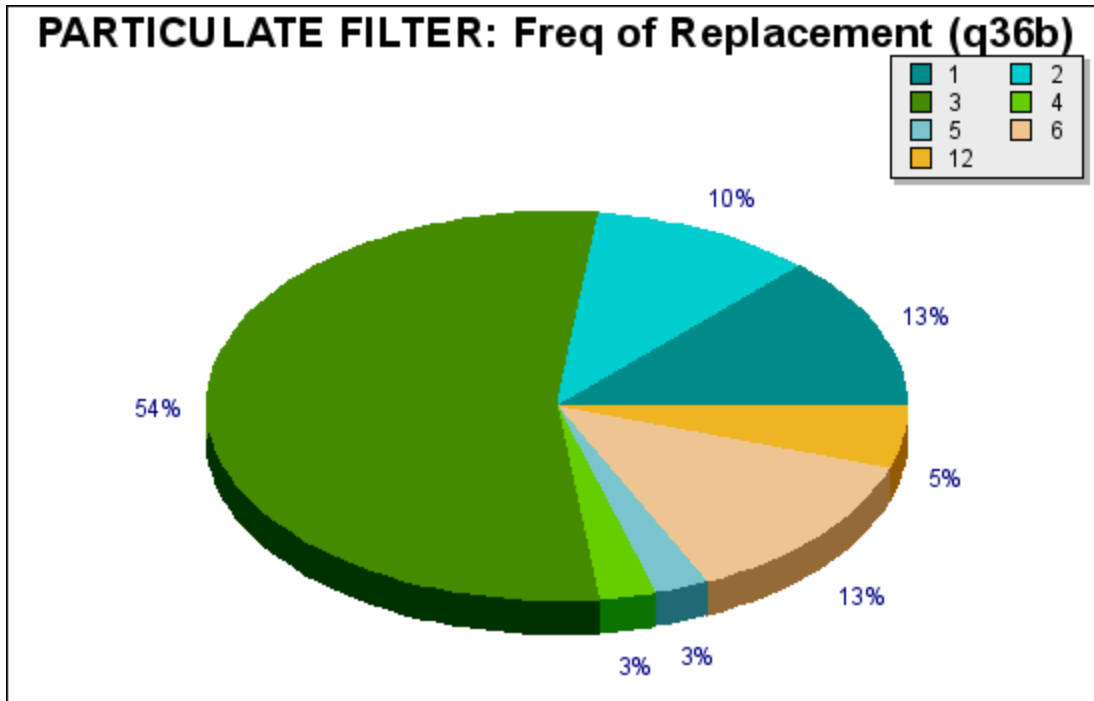
Question q35b: ROOFTOP UNITS: Freq of Inspections



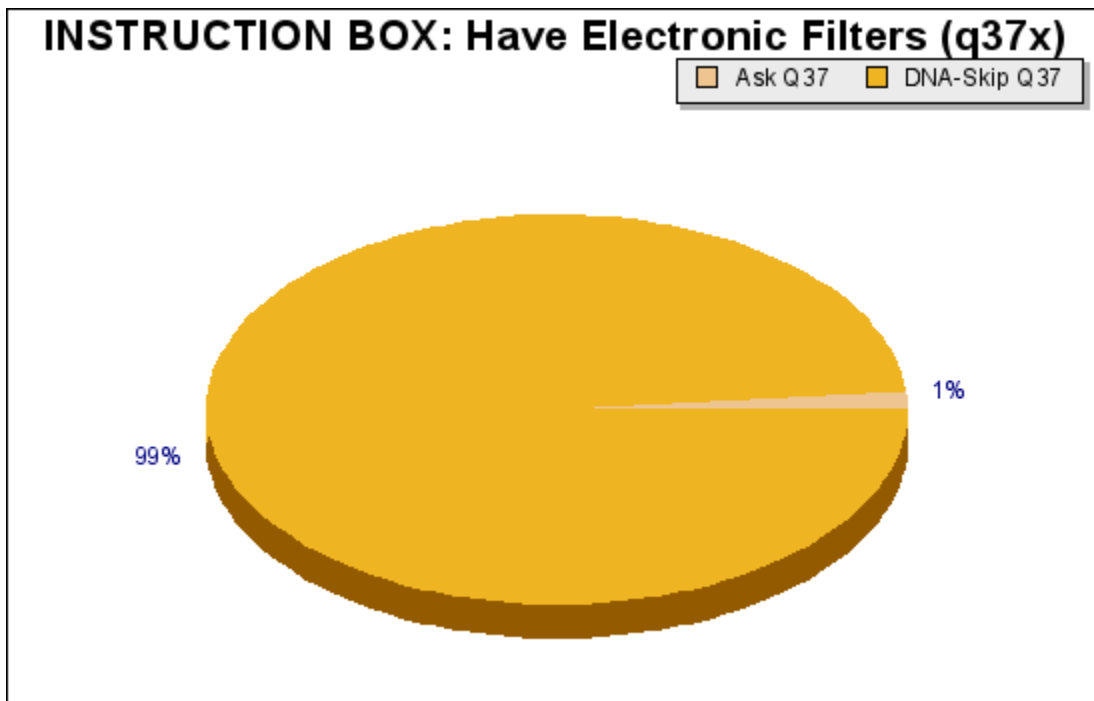
Question q36x: INSTRUCTION BOX: Use Particulate Filters



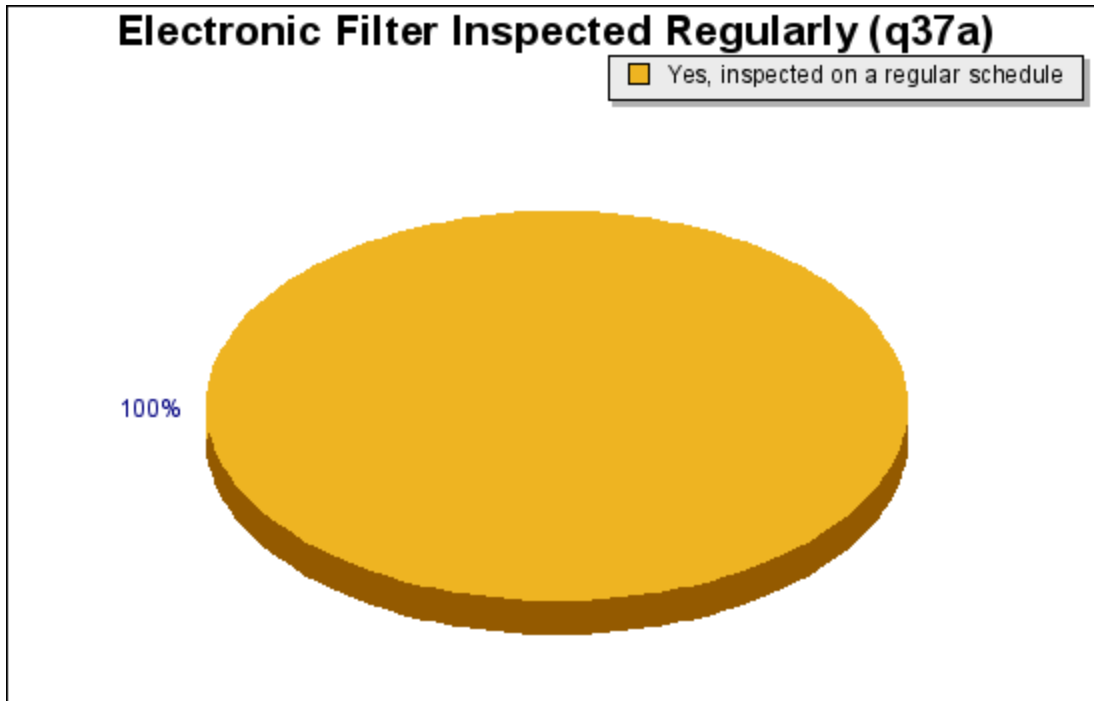
Question q36a: Replace Particulate Filter Regularly



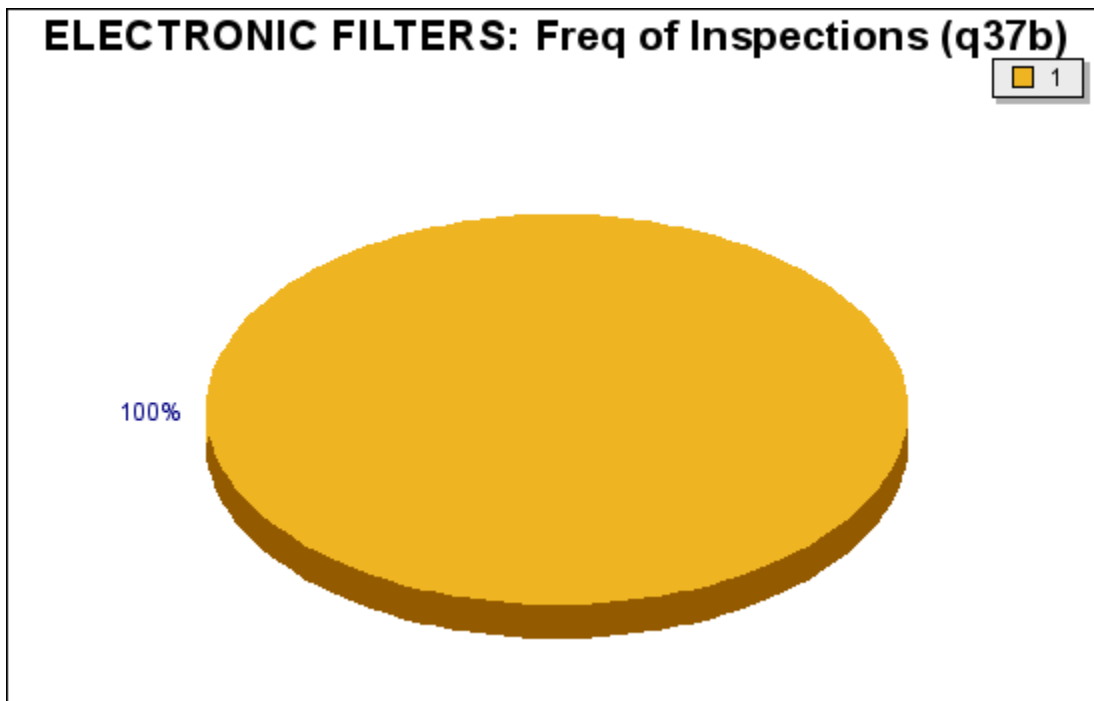
Question q36b: PARTICULATE FILTER: Freq of Replacement



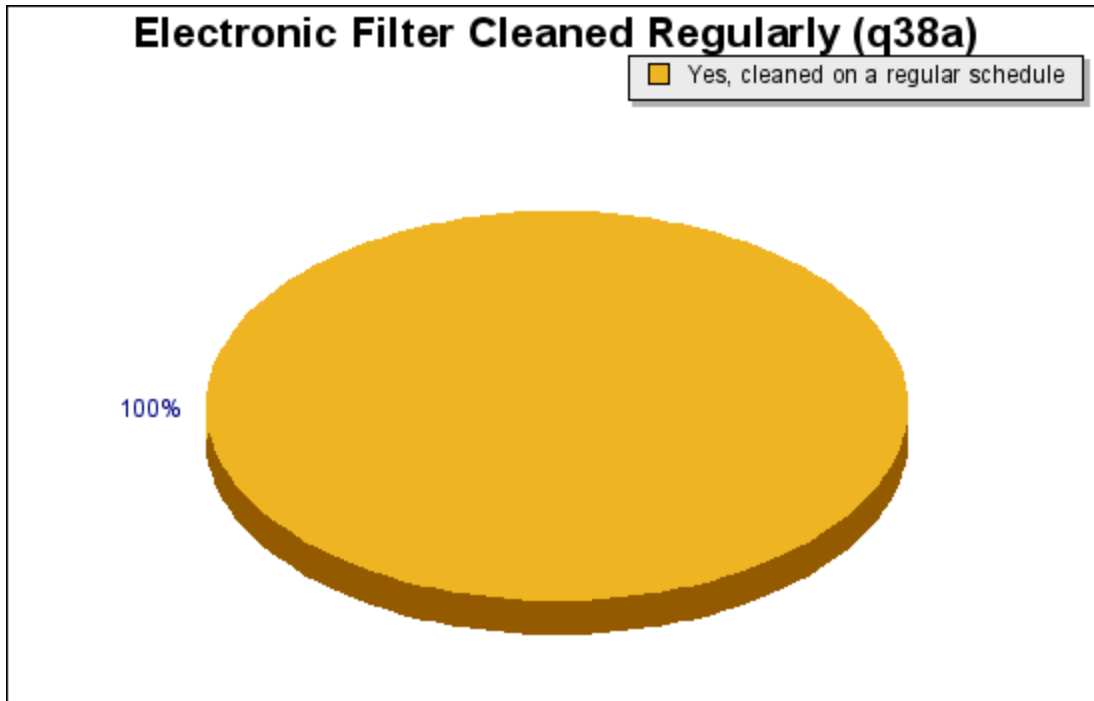
Question q37x: INSTRUCTION BOX: Have Electronic Filters



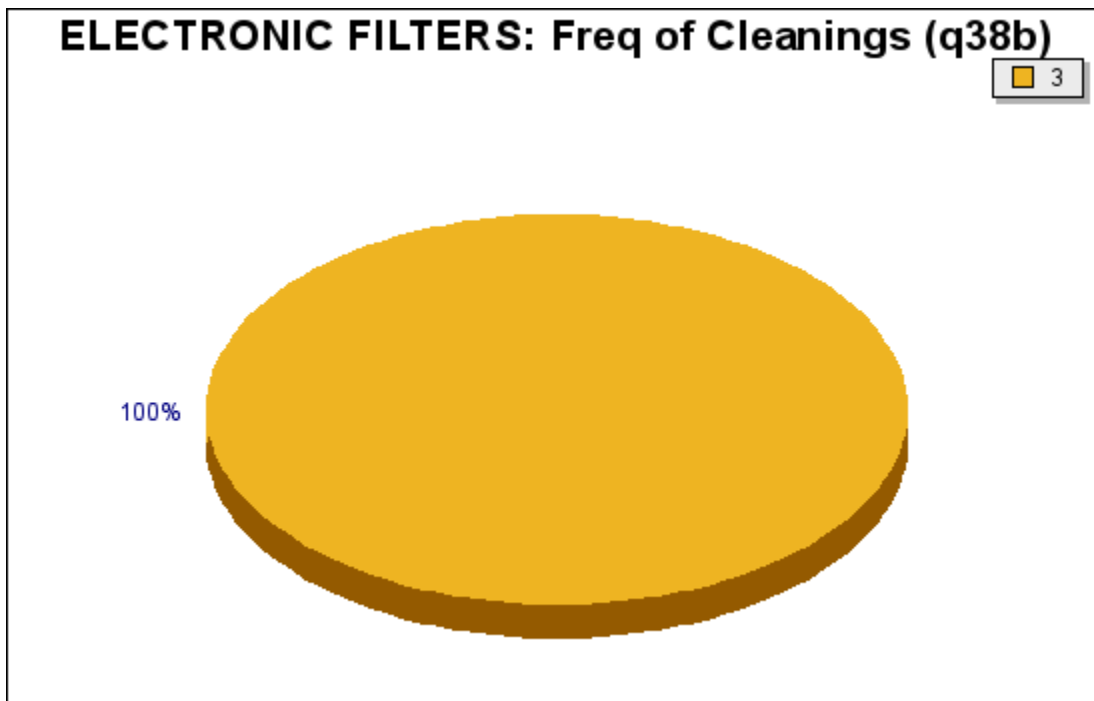
Question q37a: Electronic Filter Inspected Regularly



Question q37b: ELECTRONIC FILTERS: Freq of Inspections



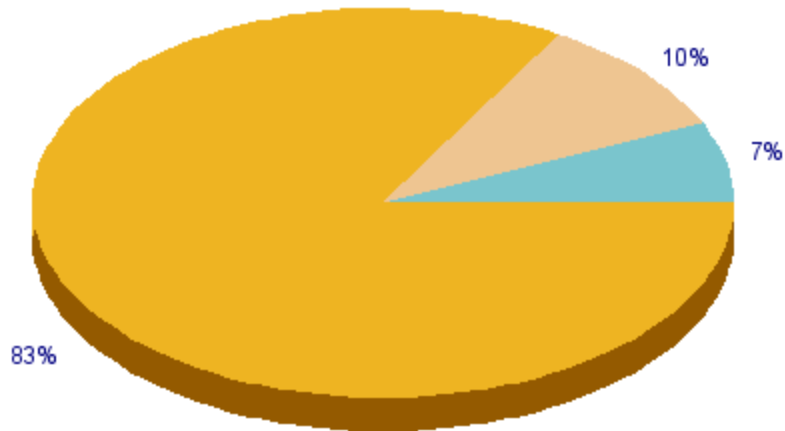
Question q38a: Electronic Filter Cleaned Regularly



Question q38b: ELECTRONIC FILTERS: Freq of Cleanings

Cooling/Heating Coils Inspected Regularly (q39a)

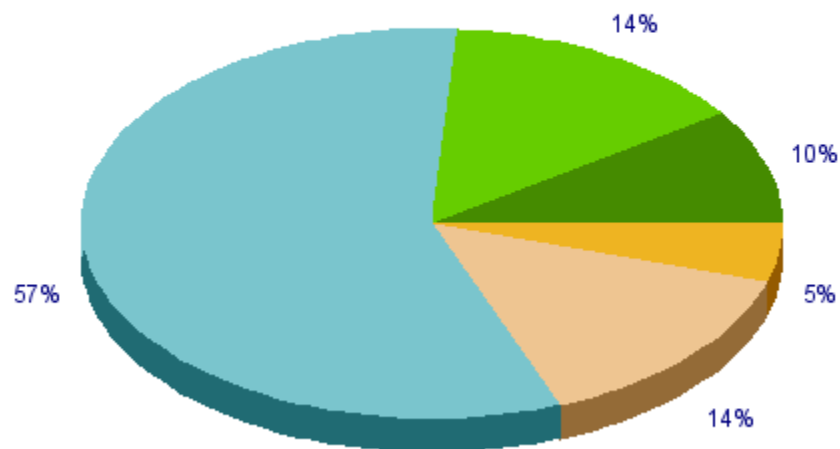
Inspected, but not on regular basis Not inspected
Yes, inspected on a regular schedule



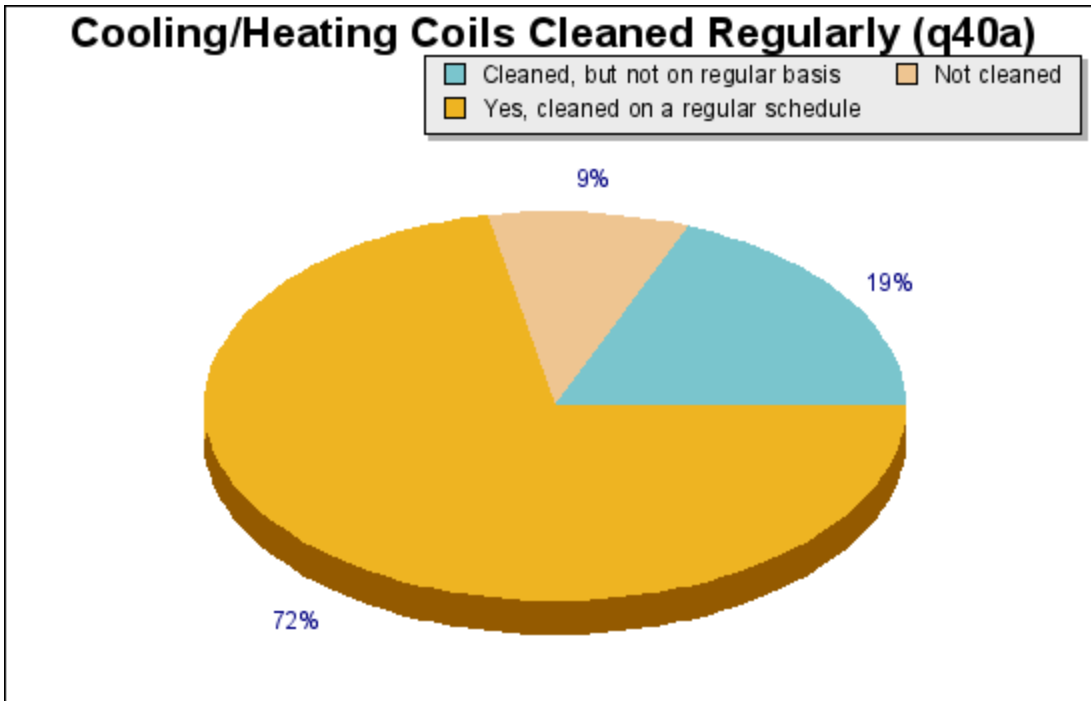
Question q39a: Cooling/Heating Coils Inspected Regularl

COILS: Frequency of Inspections (q39b)

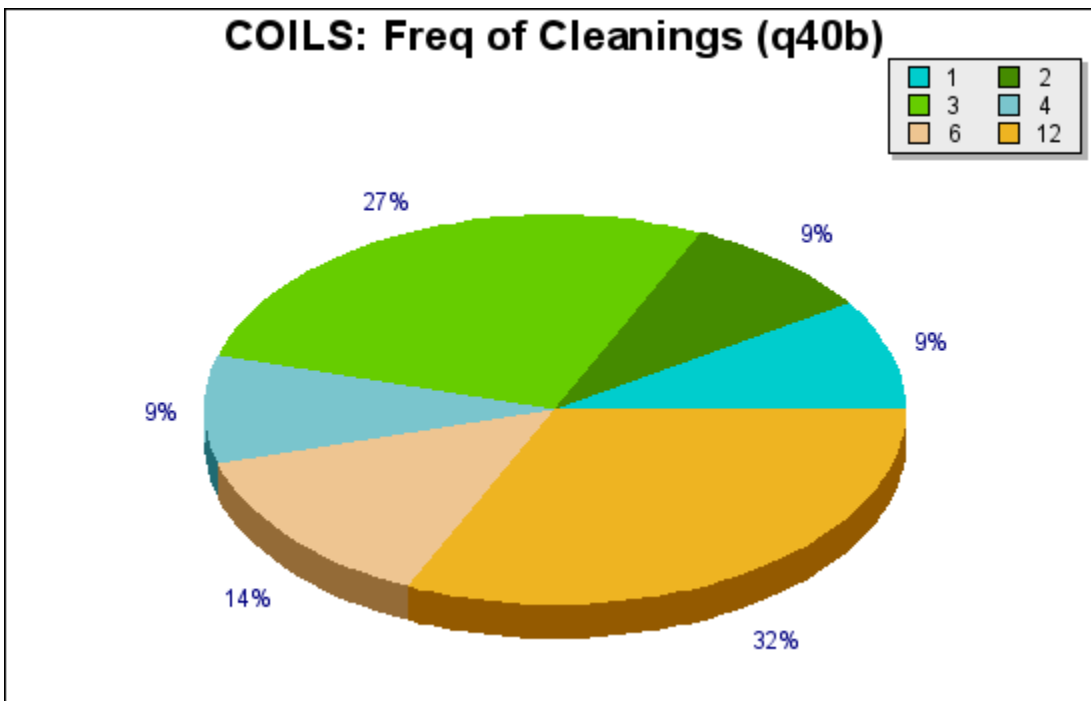
1 2
3 4
12



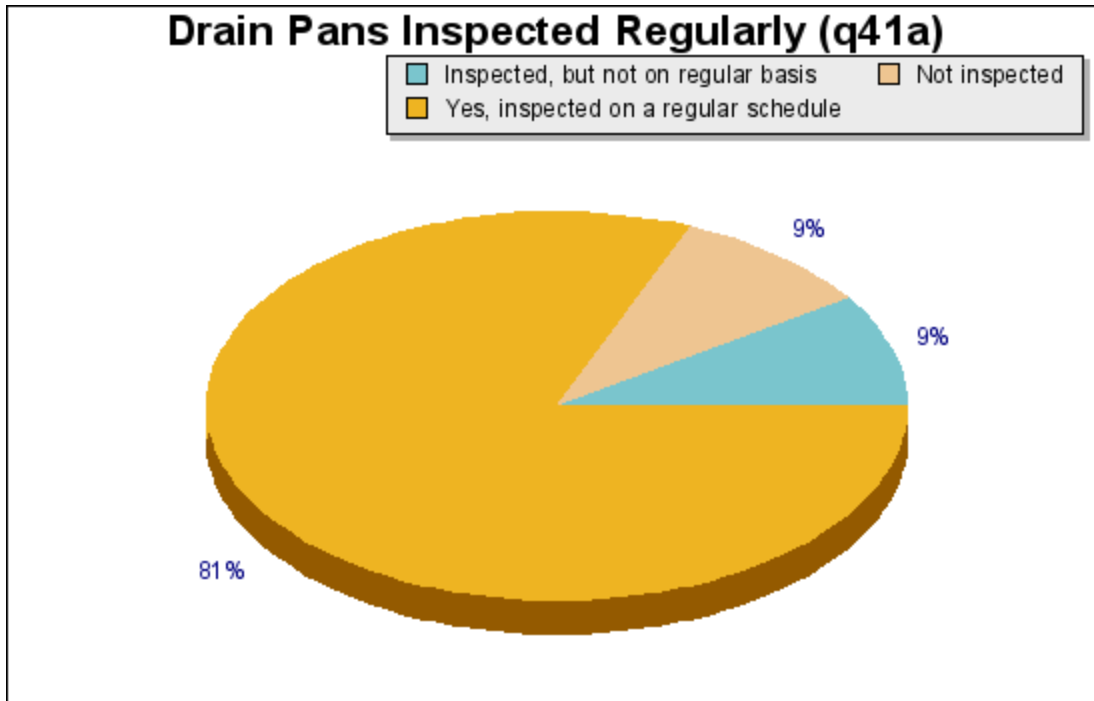
Question q39b: COILS: Frequency of Inspections



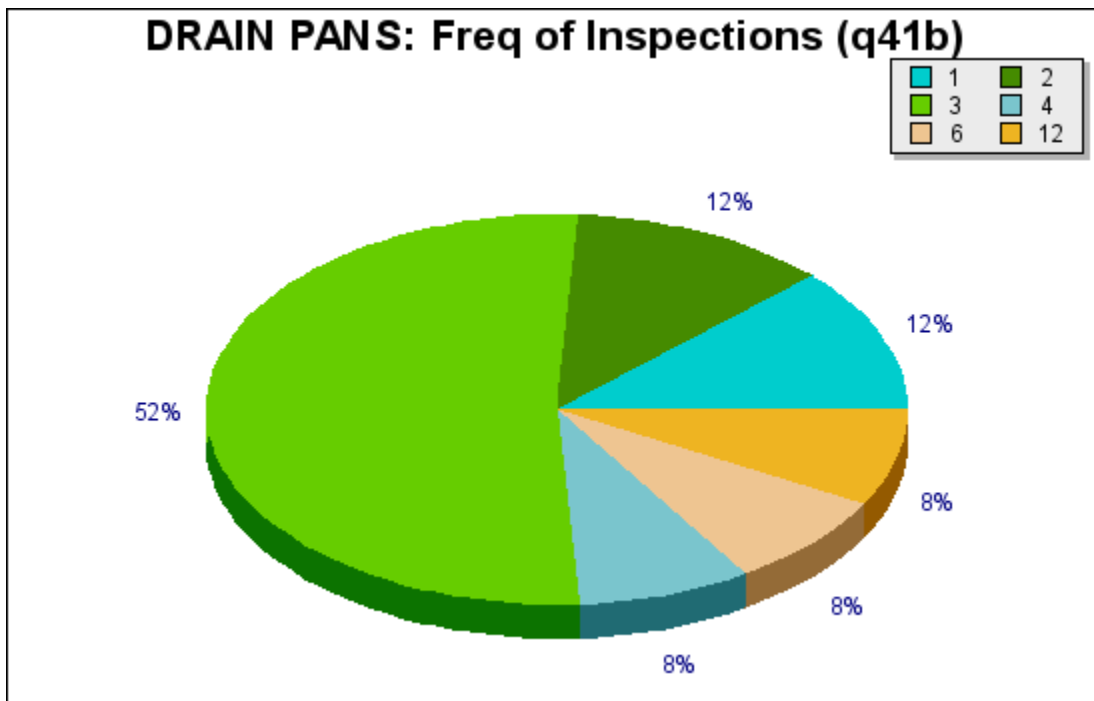
Question q40a: Cooling/Heating Coils Cleaned Regularly



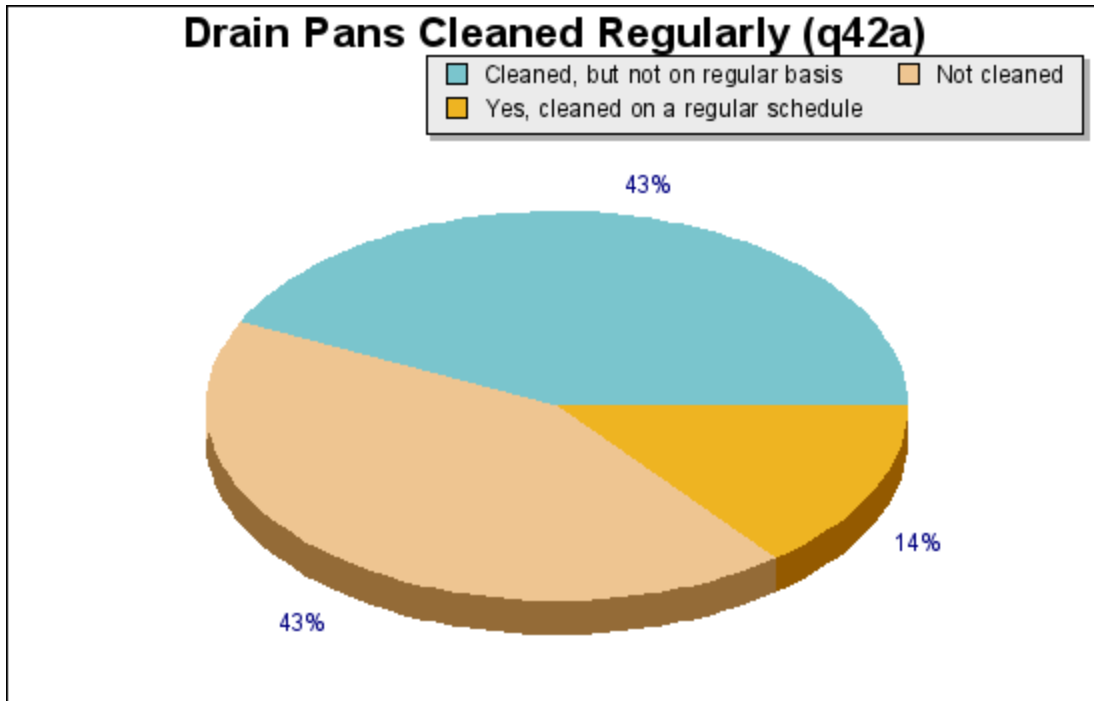
Question q40b: COILS: Freq of Cleanings



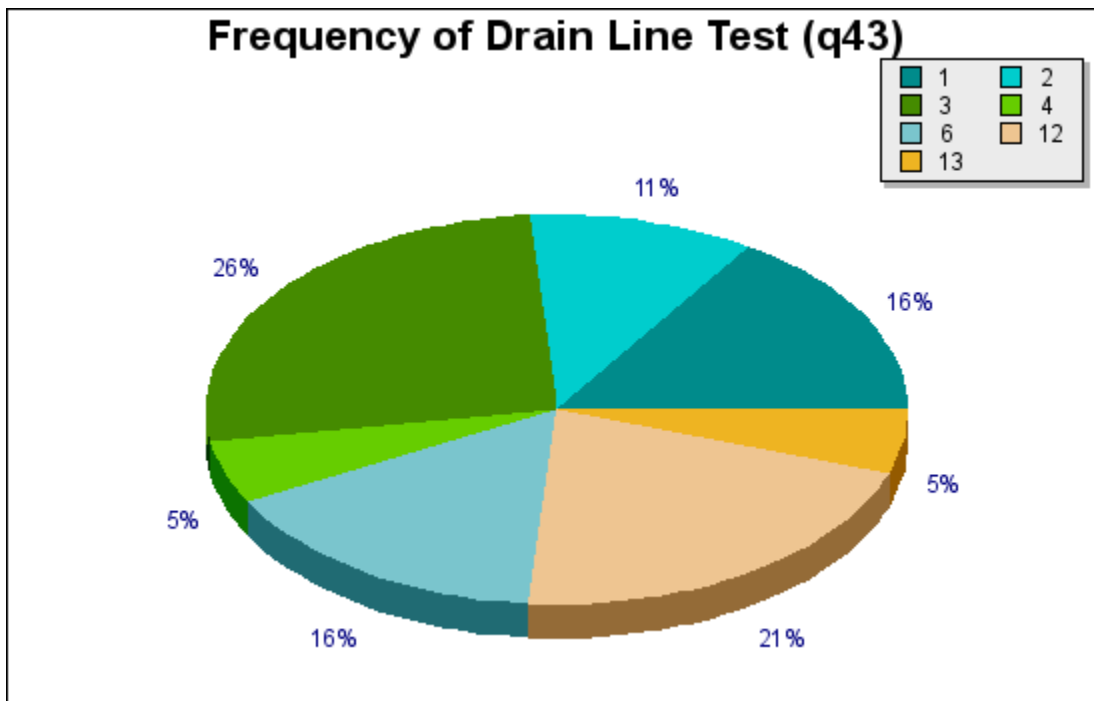
Question q41a: Drain Pans Inspected Regularly



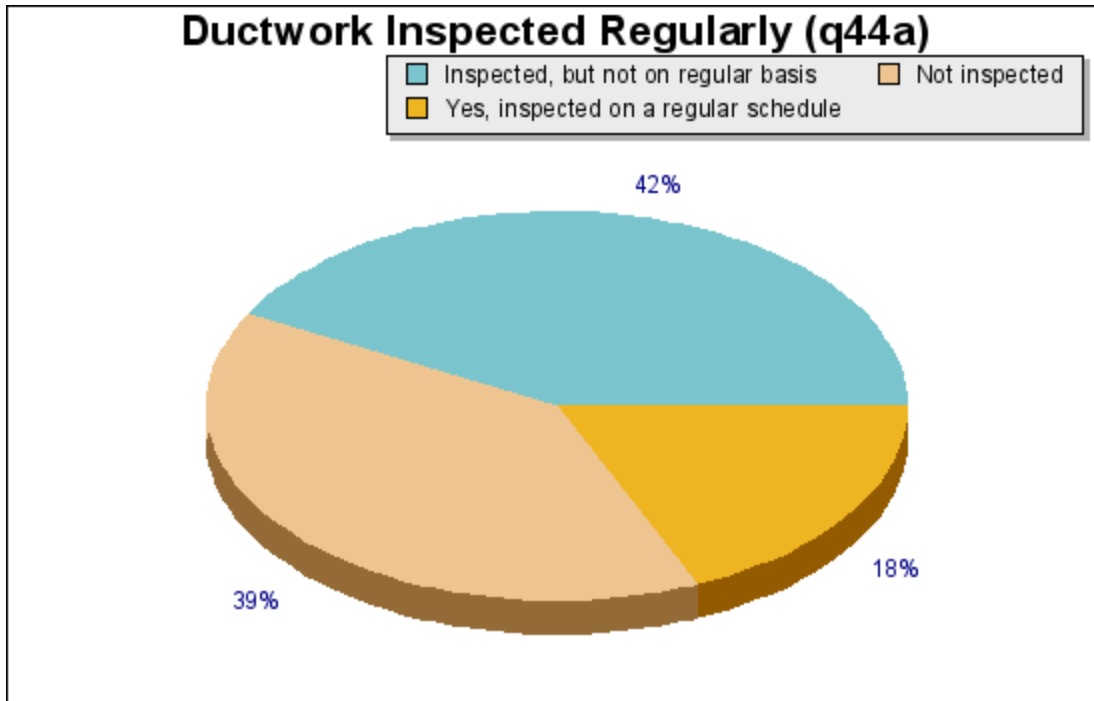
Question q41b: DRAIN PANS: Freq of Inspections



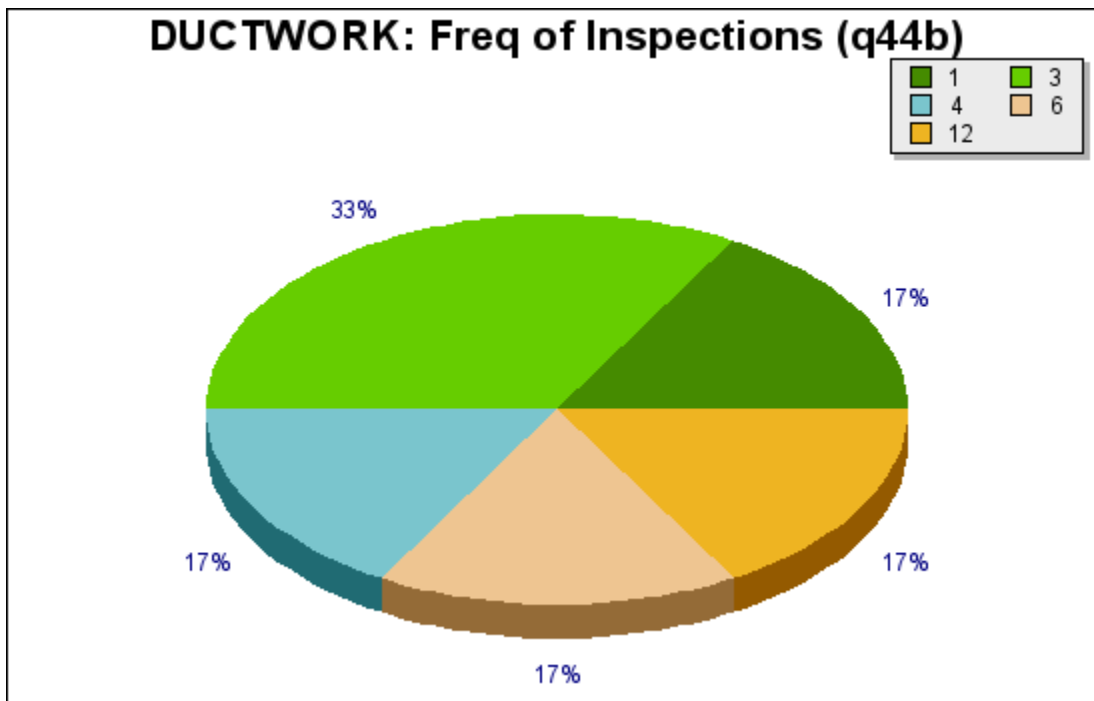
Question q42a: Drain Pans Cleaned Regularly



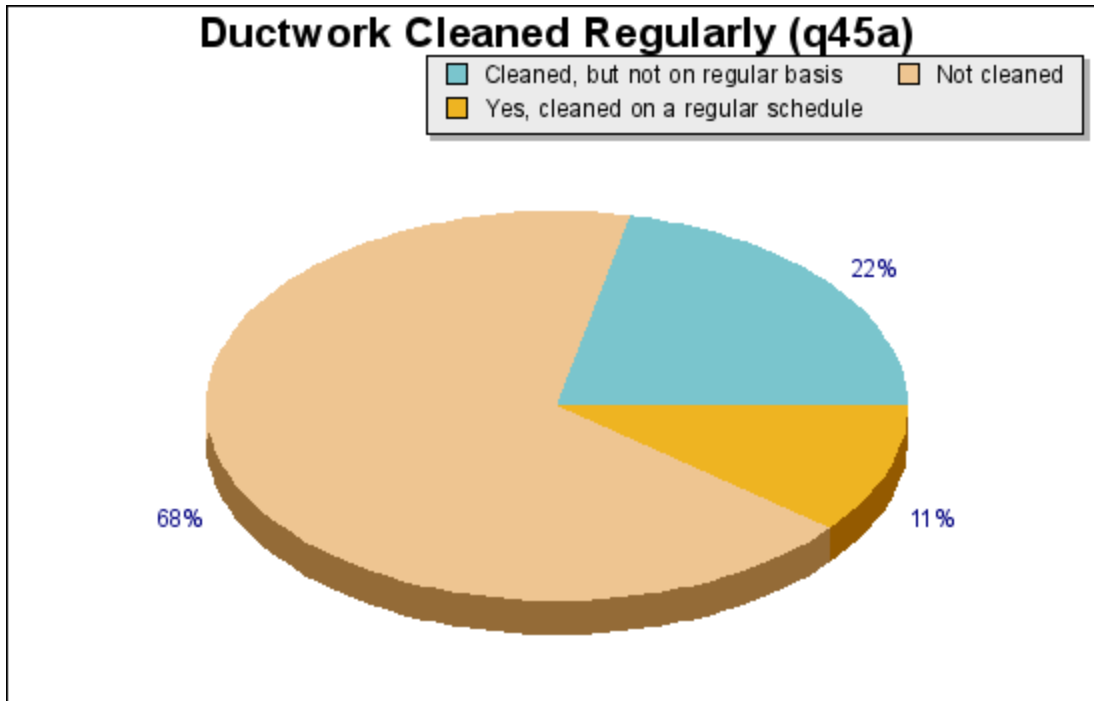
Question q43: Frequency of Drain Line Test



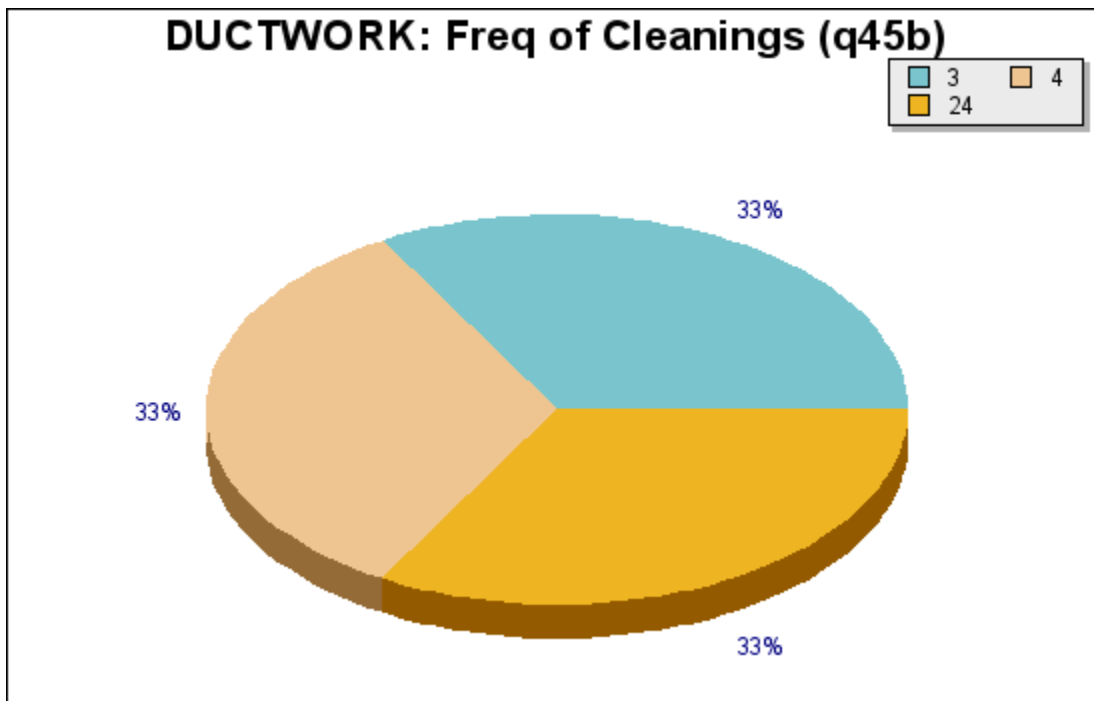
Question q44a: Ductwork Inspected Regularly



Question q44b: DUCTWORK: Freq of Inspections

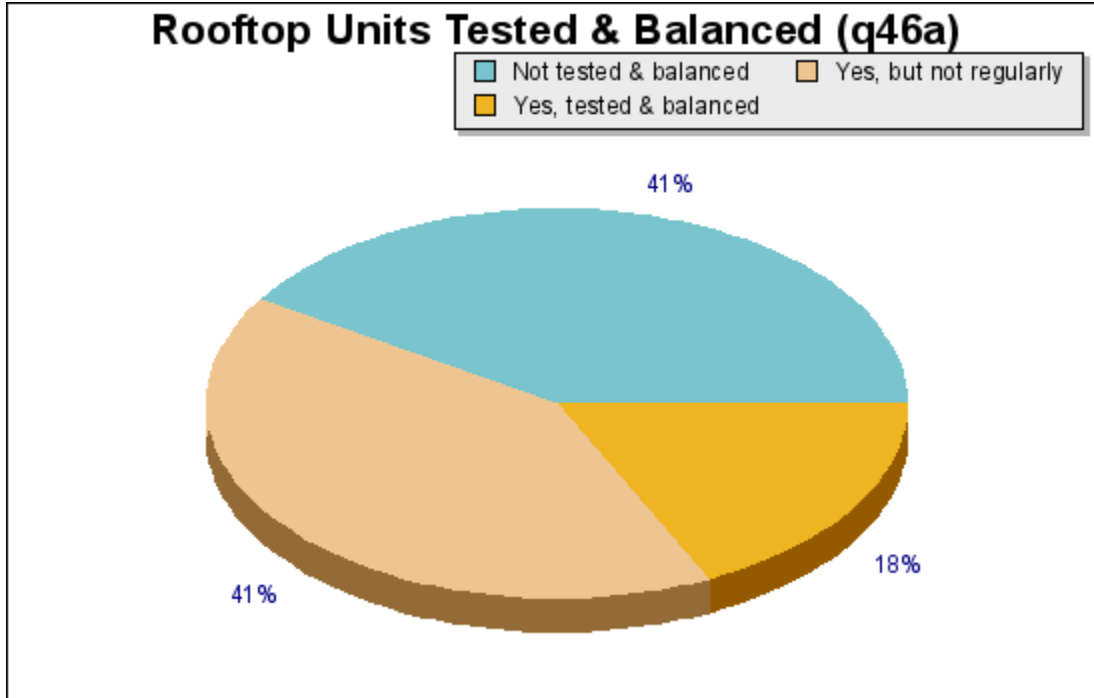


Question q45a: Ductwork Cleaned Regularly

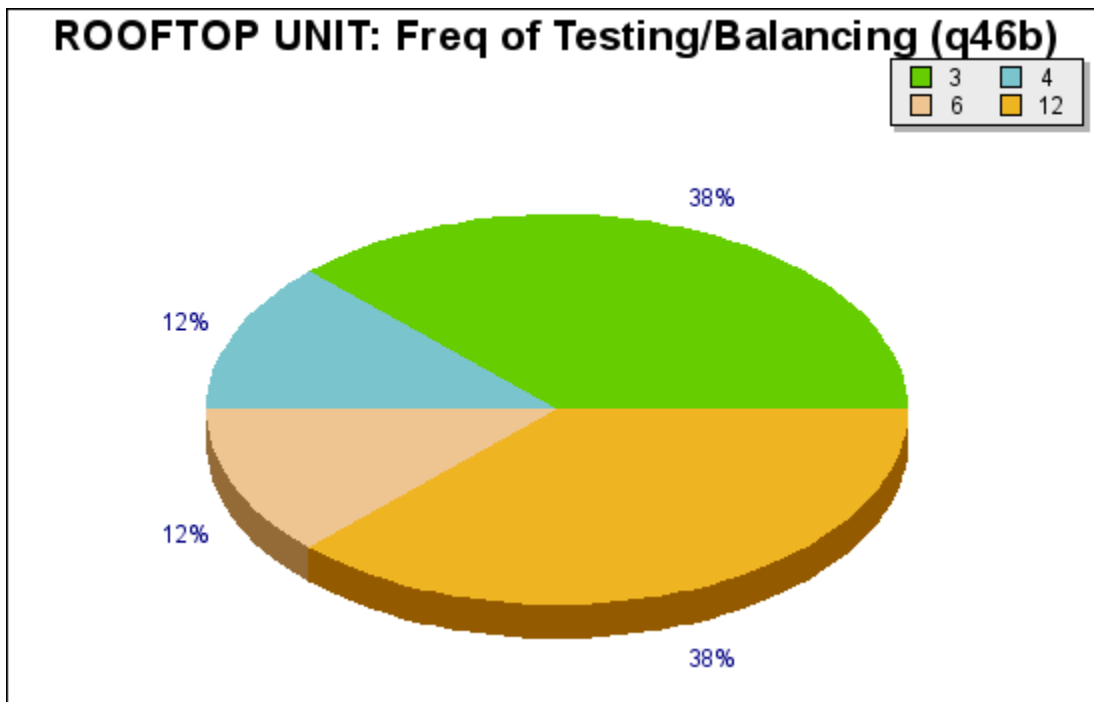


Question q45b: DUCTWORK: Freq of Cleanings

Testing And Balancing

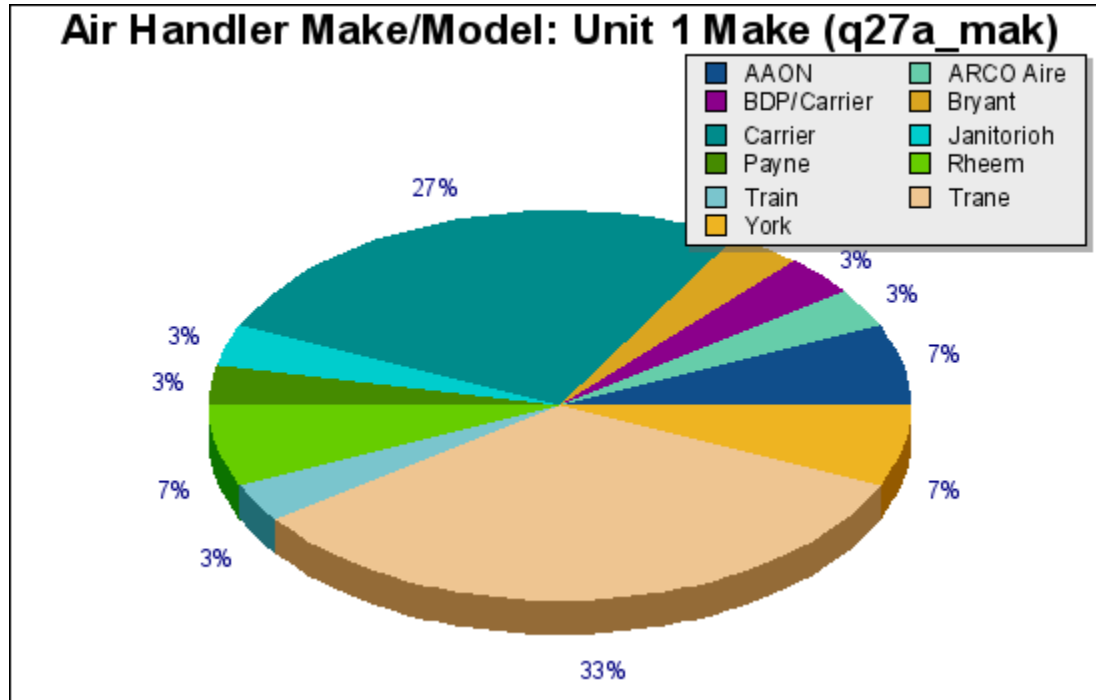


Question q46a: Rooftop Units Tested & Balanced

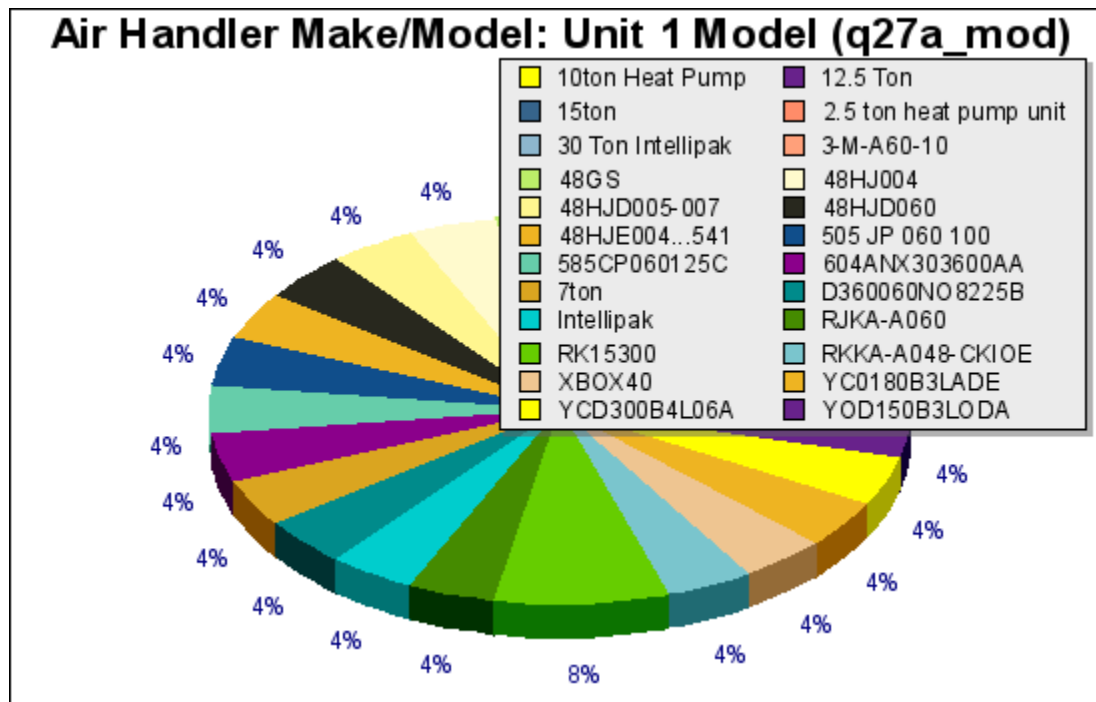


Question q46b: ROOFTOP UNIT: Freq of Testing/Balancing

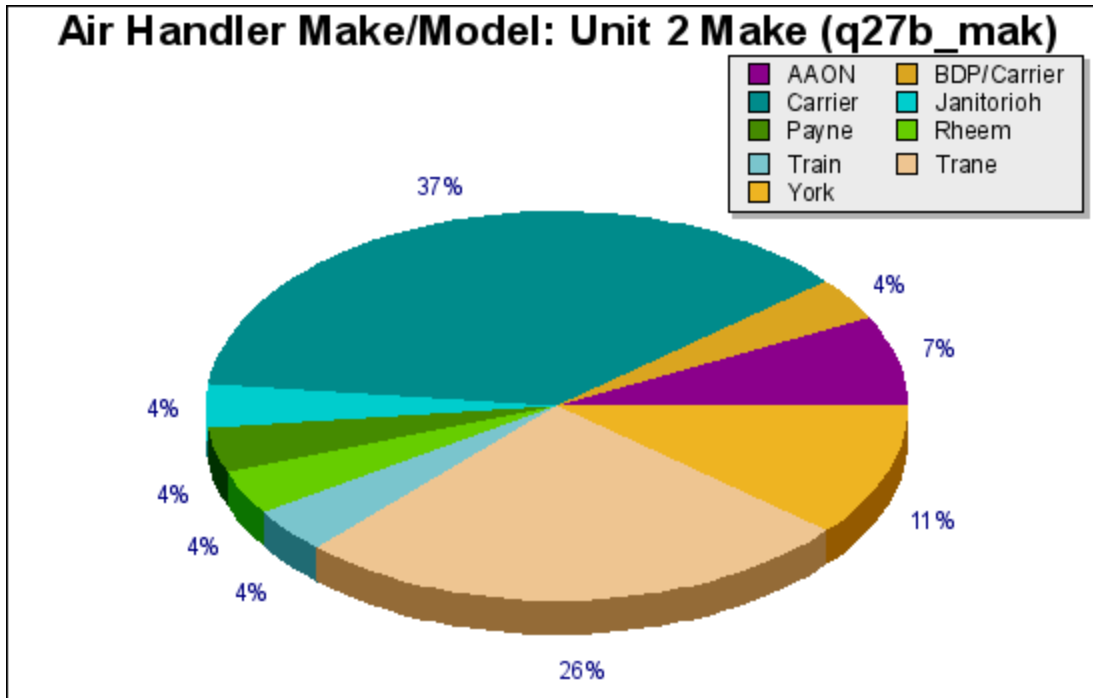
Make And Model



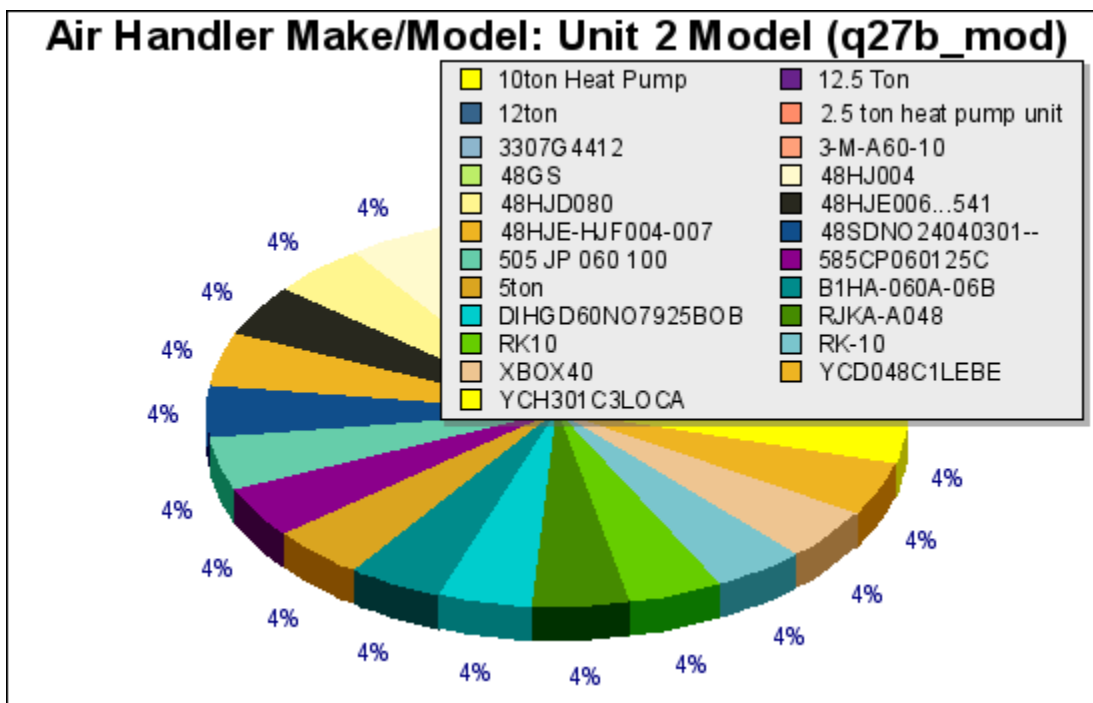
Question q27a_mak: Air Handler Make/Model: Unit 1 Make



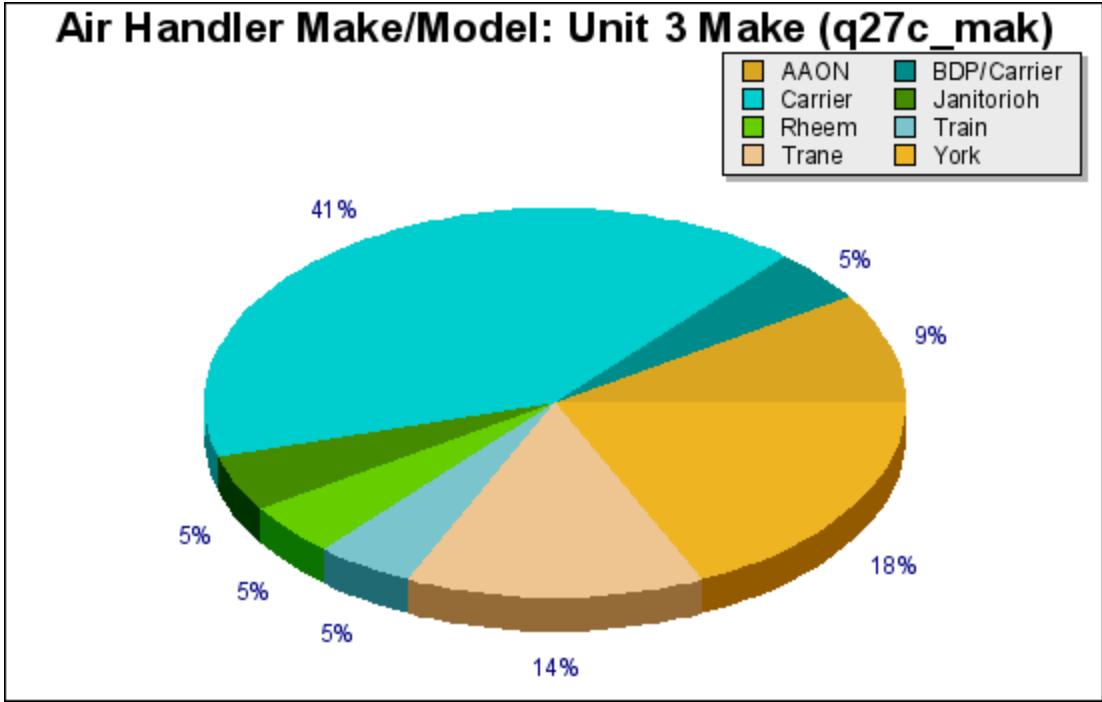
Question q27a_mod: Air Handler Make/Model: Unit 1 Model



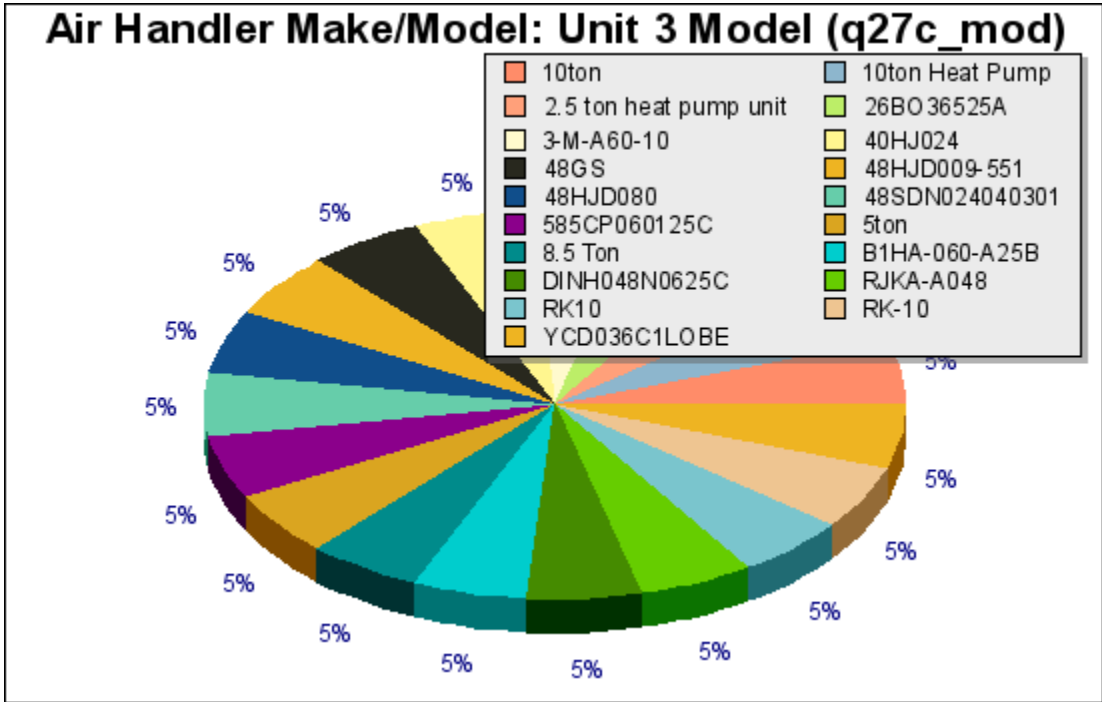
Question q27b_mak: Air Handler Make/Model: Unit 2 Make



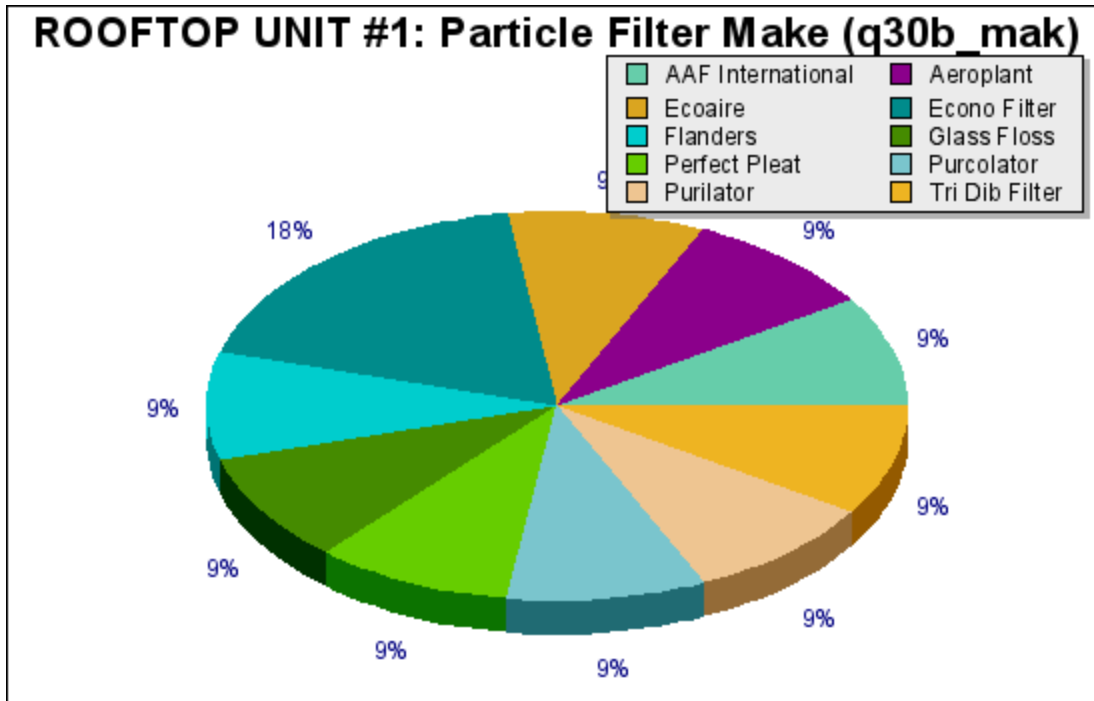
Question q27b_mod: Air Handler Make/Model: Unit 2 Model



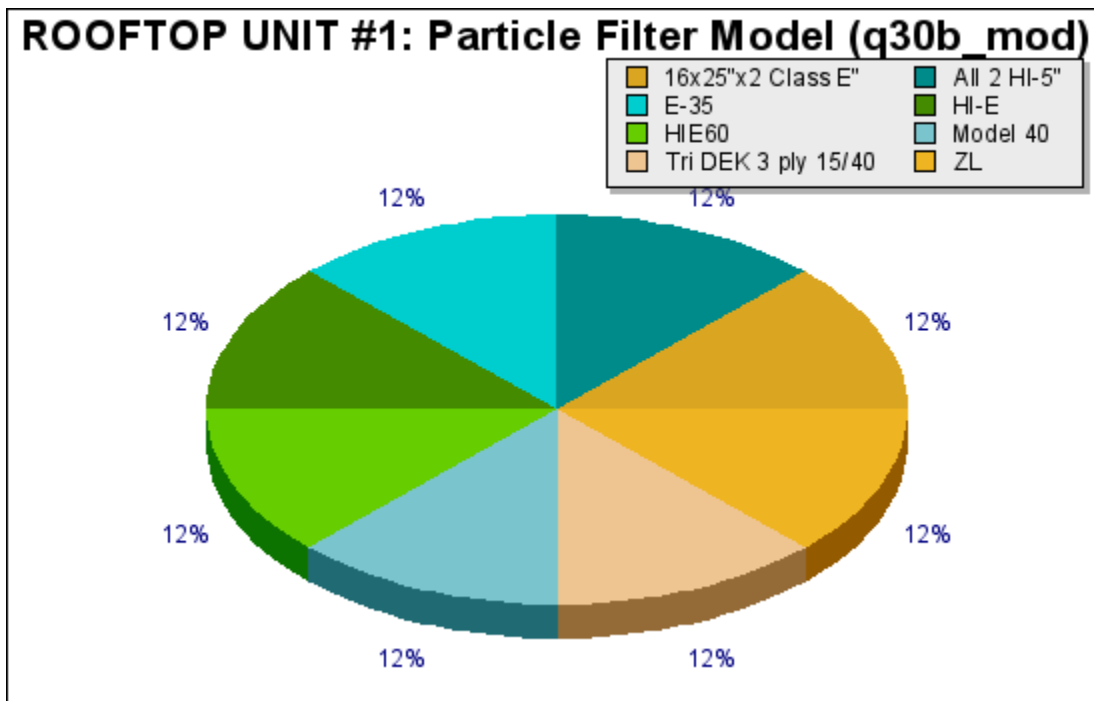
Question q27c_mak: Air Handler Make/Model: Unit 3 Make



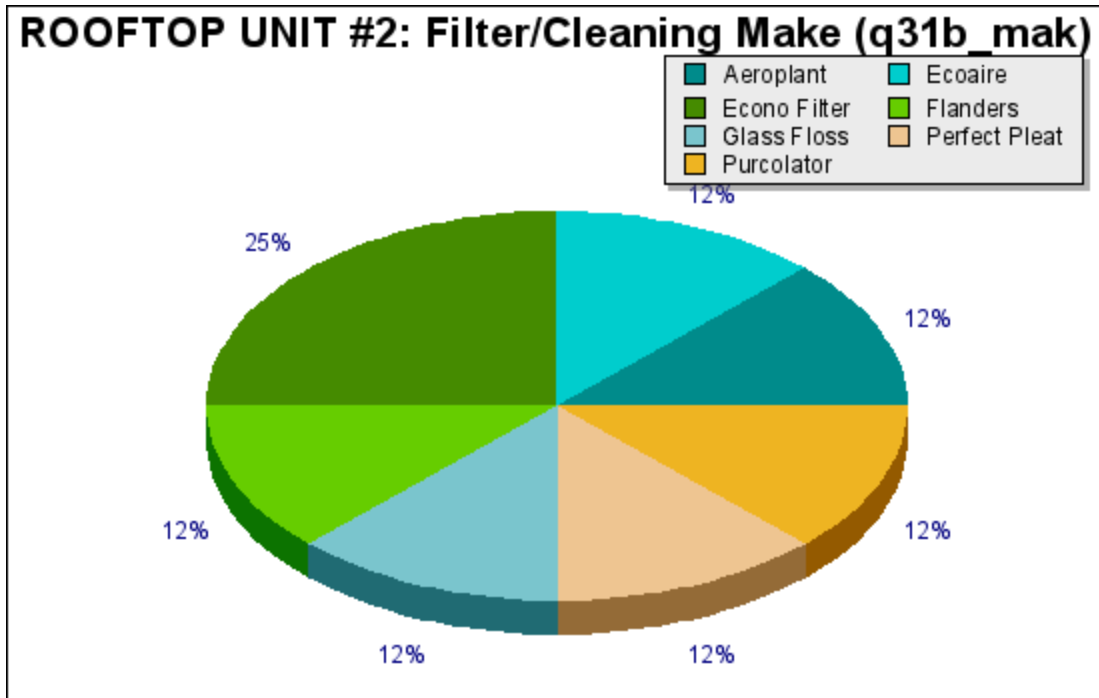
Question q27c_mod: Air Handler Make/Model: Unit 3 Model



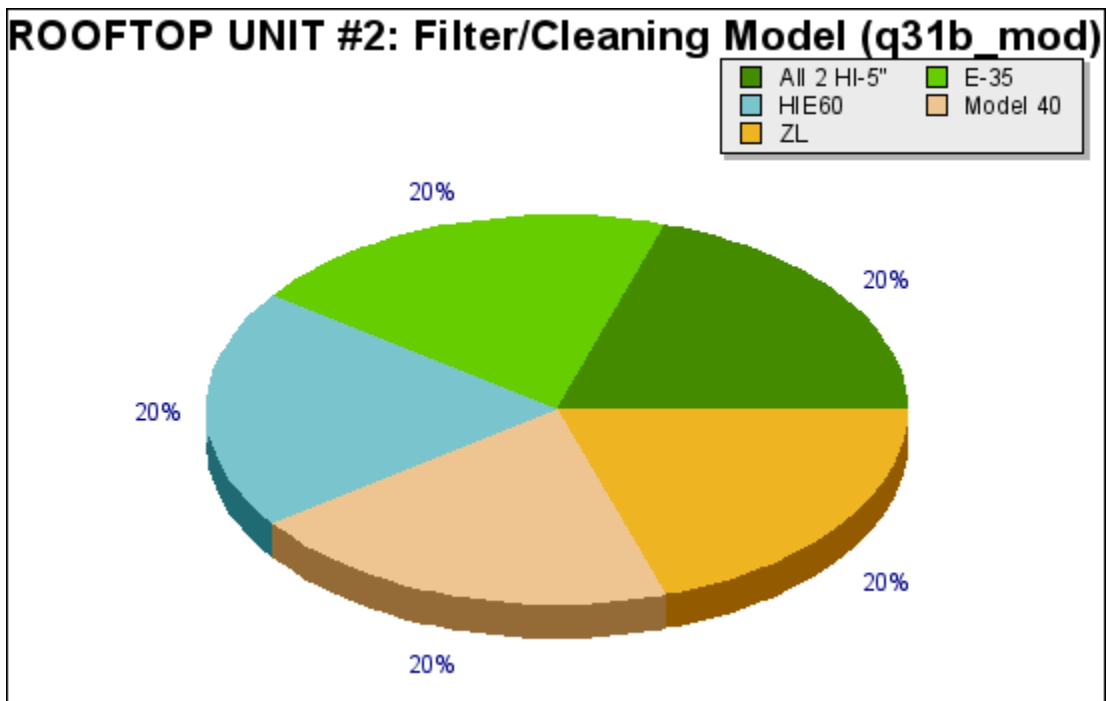
Question q30b_mak: ROOFTOP UNIT #1: Particle Filter Make



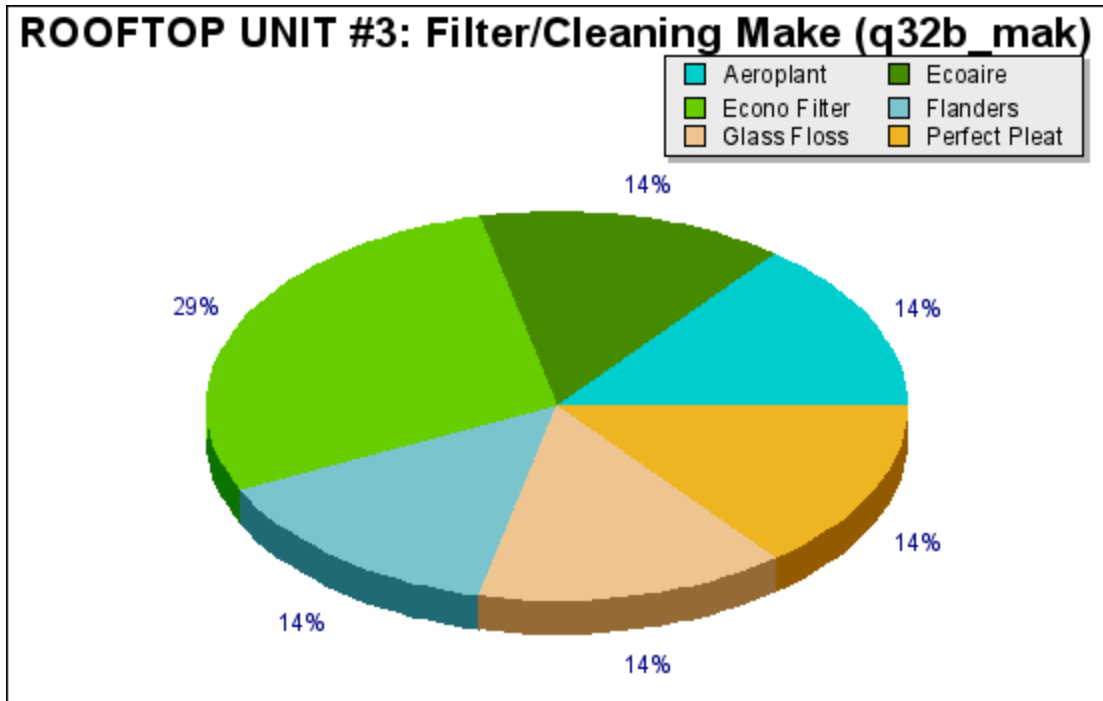
Question q30b_mod: ROOFTOP UNIT #1: Particle Filter Model



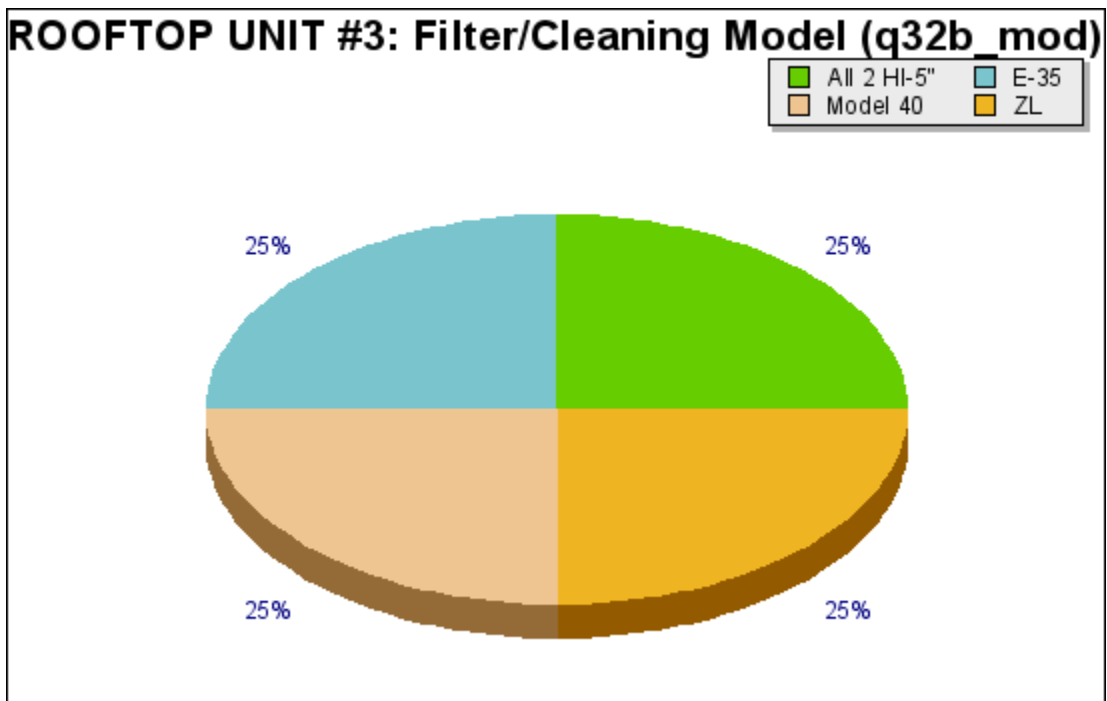
Question q31b_mak: ROOFTOP UNIT #2: Filter/Cleaning Make



Question q31b_mod: ROOFTOP UNIT #2: Filter/Cleaning Model



Question q32b_mak: ROOFTOP UNIT #3: Filter/Cleaning Make



Question q32b_mod: ROOFTOP UNIT #3: Filter/Cleaning Model