



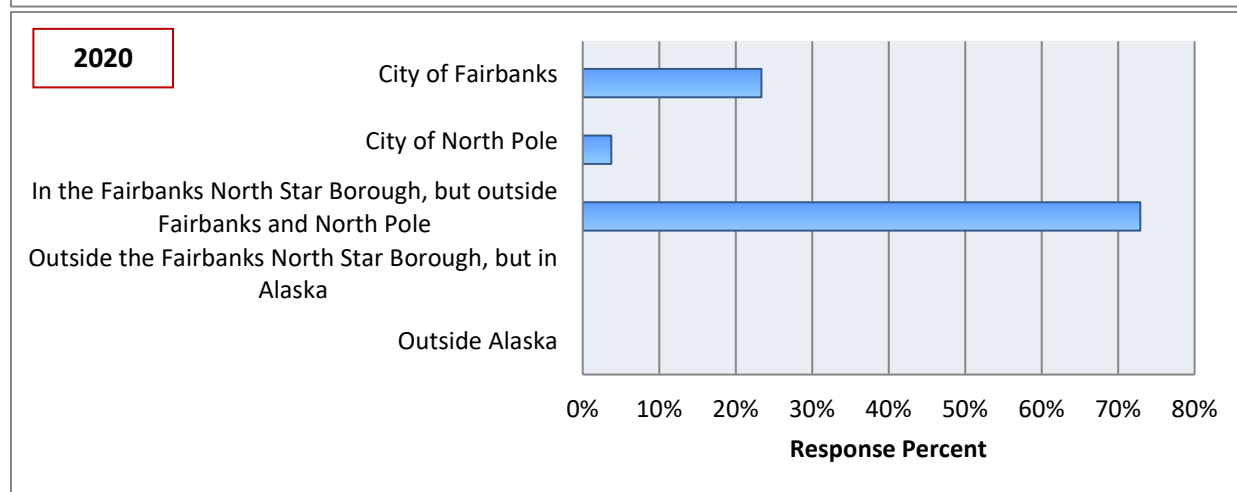
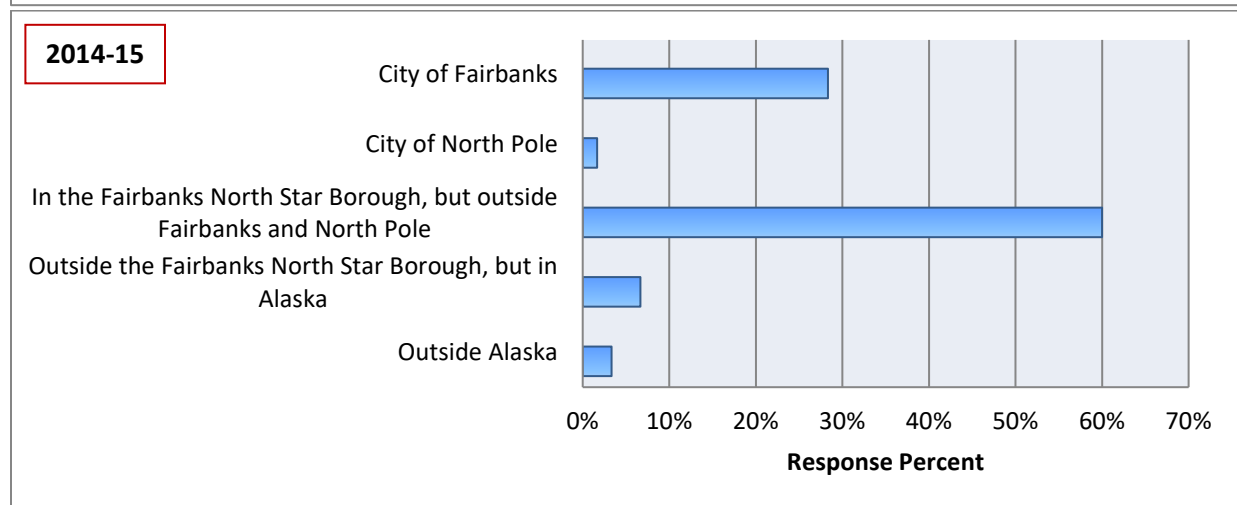
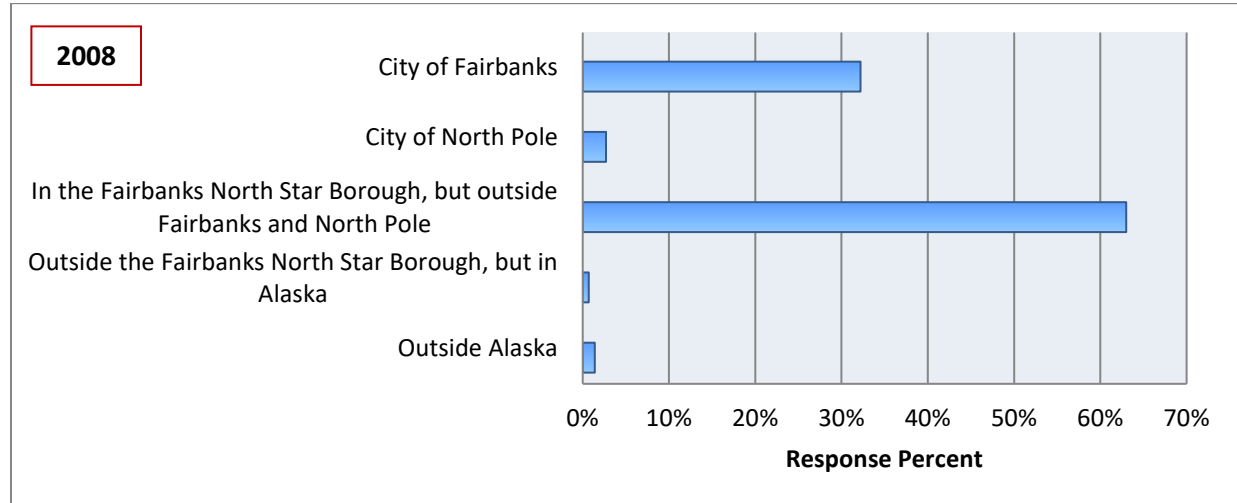
## **Comparison of 2008, 2014-15, & 2020 Community Survey on Fairbanks Storm Water Quality**

In 2008 the Fairbanks Storm Water Advisory Committee (FSWAC) developed a Community Survey on public knowledge, behaviors, and attitudes related to storm water management in the Fairbanks area. The survey was published in both hardcopy format and online, and the results were summarized at the end of that year. In 2014-15, the FSWAC re-distributed the survey (with a few modifications) to see if there were any measurable changes in public knowledge, behaviors, or attitudes over time as a result of the FSWAC's public education and outreach efforts. In 2020 FSWAC re-distributed the survey (with a few modifications again) to see if there were any measurable changes in public knowledge, behaviors, or attitudes over time as a result of the FSWAC's public education and outreach efforts. A total of 146 surveys were collected in 2008, 62 surveys in 2014-15, 107 surveys in 2020. The following provides a comparison of the results for the three survey periods.

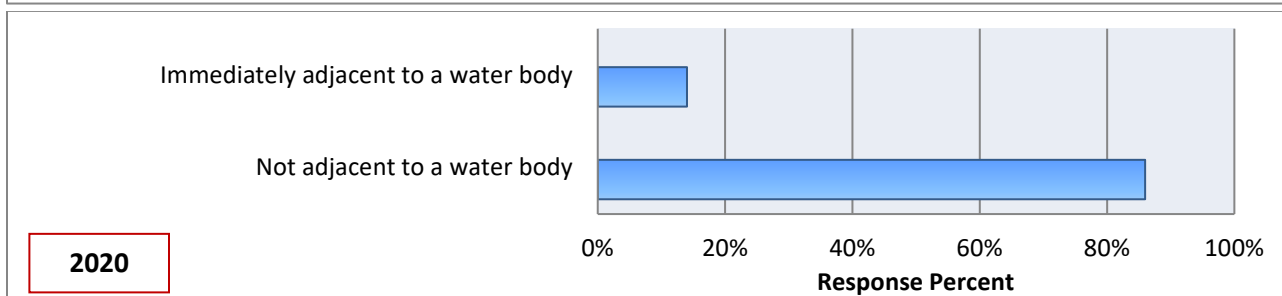
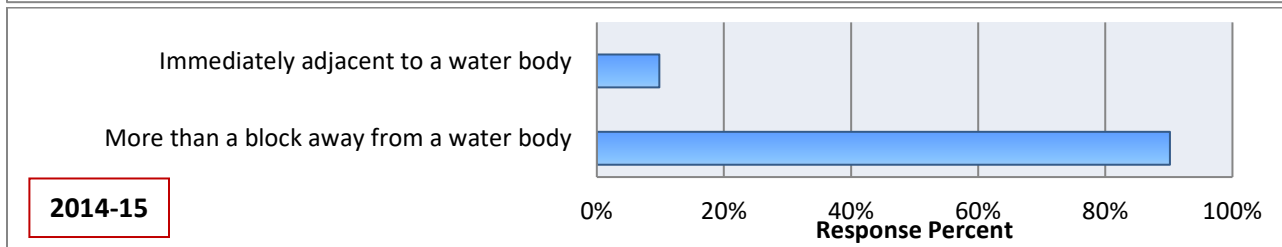
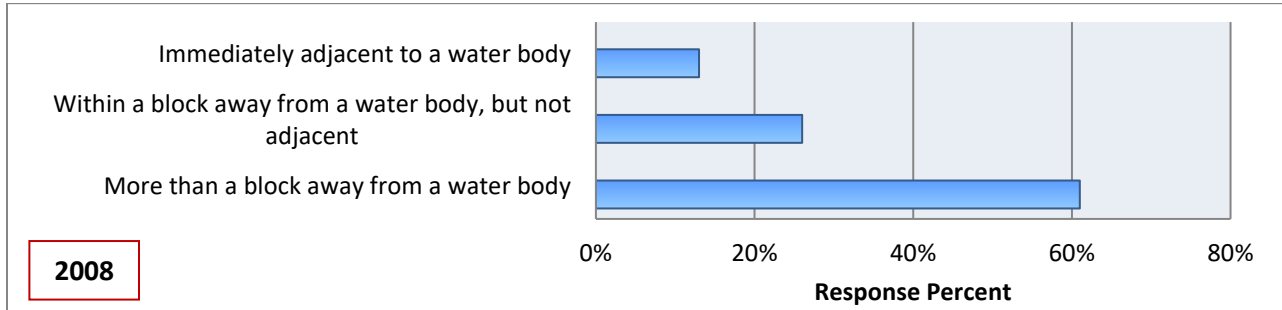
FSWAC distribution plan for the 2020 survey was hindered by COVID-19. The original plan was to pass out the survey at the 2020 Interior Alaska Building Association's Home Show, this event along with other community events were canceled in response to mitigate the spread of COVID-19. The cancelation of these events effected FSWAC's outreach efforts, which is seen with the limited responses to the 2020 survey.

The following provides a comparison of the results for the three survey periods.

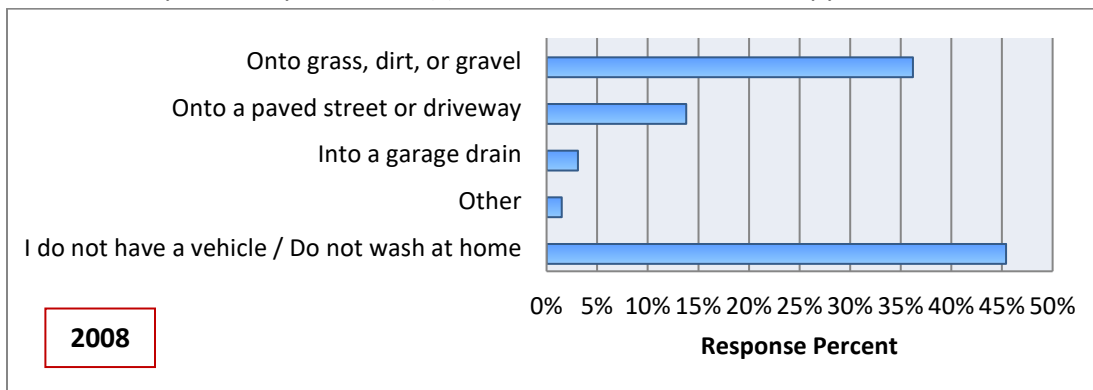
**Question: Where do you live?**



**Question:** How close do you live to a lake, stream, or other water body?

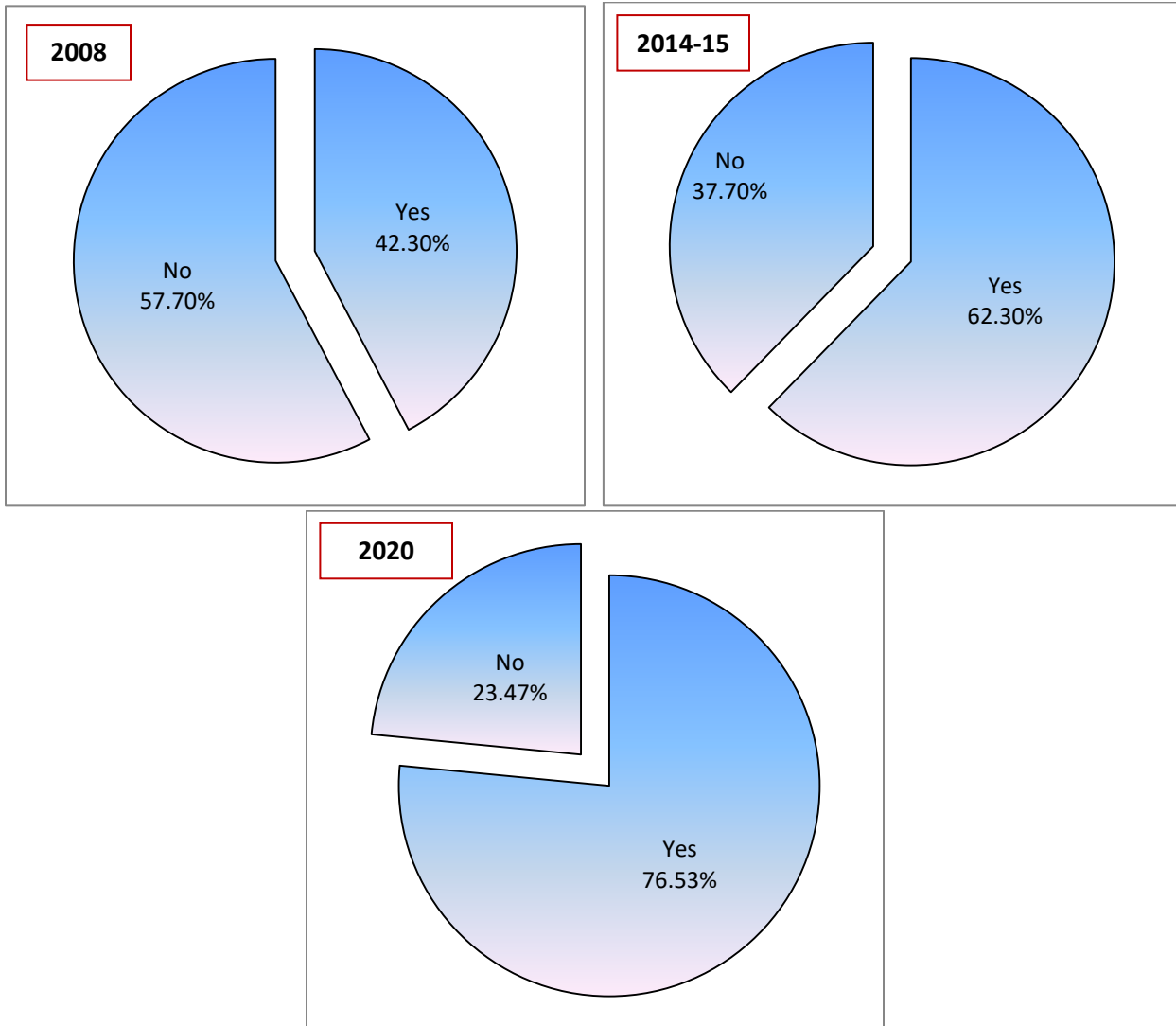


**Question:** If you wash your vehicle(s) at home, where does the soapy water flow?

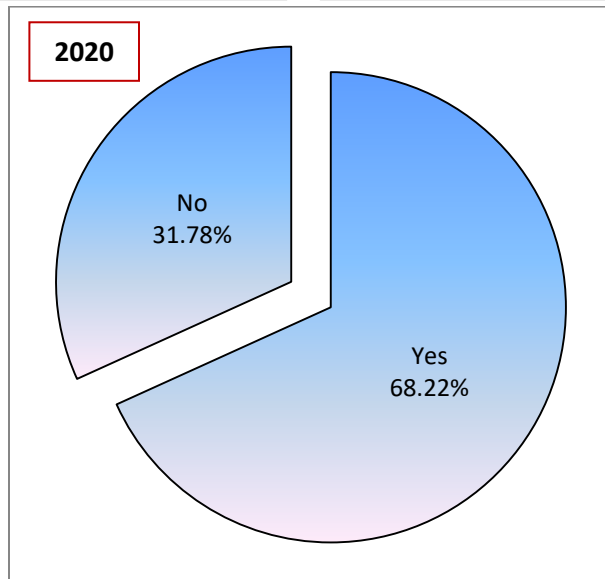
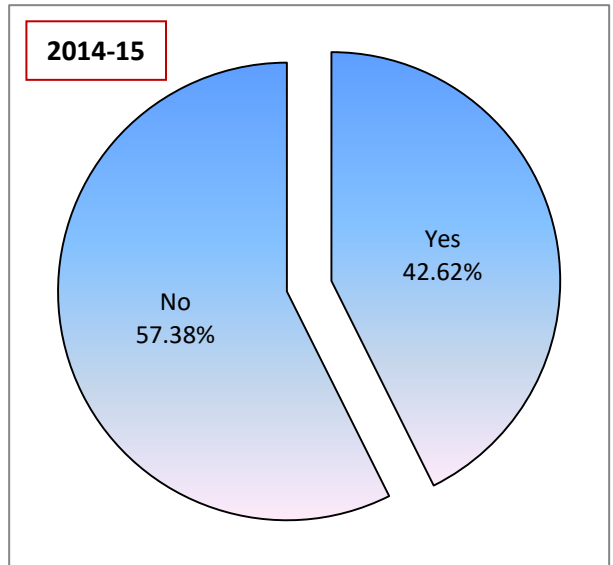
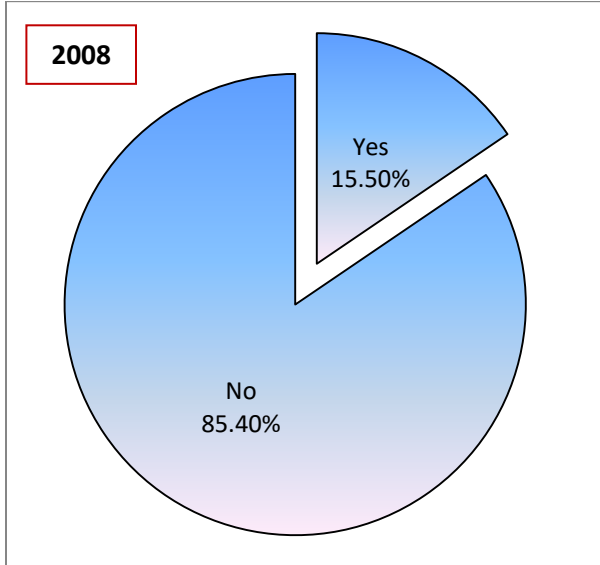


**N/A for 2014-15 and 2020 (question deleted from survey)**

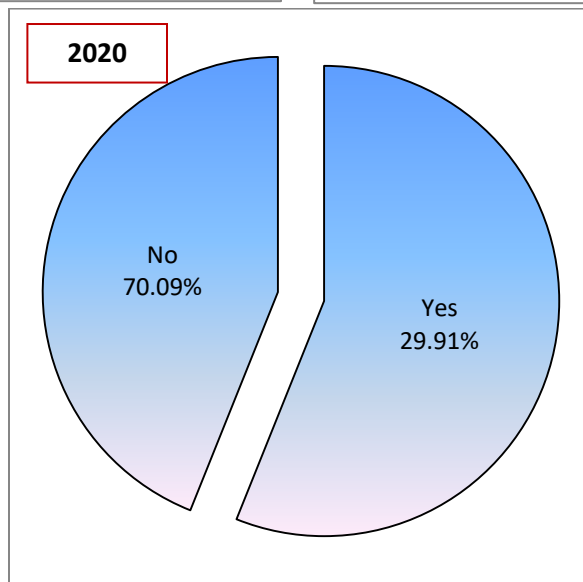
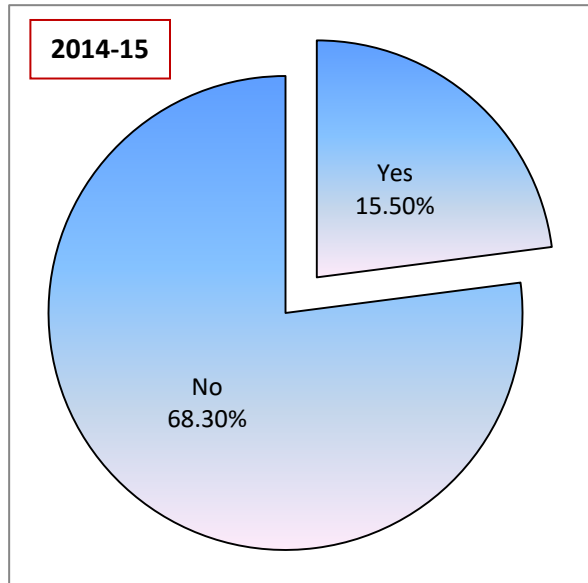
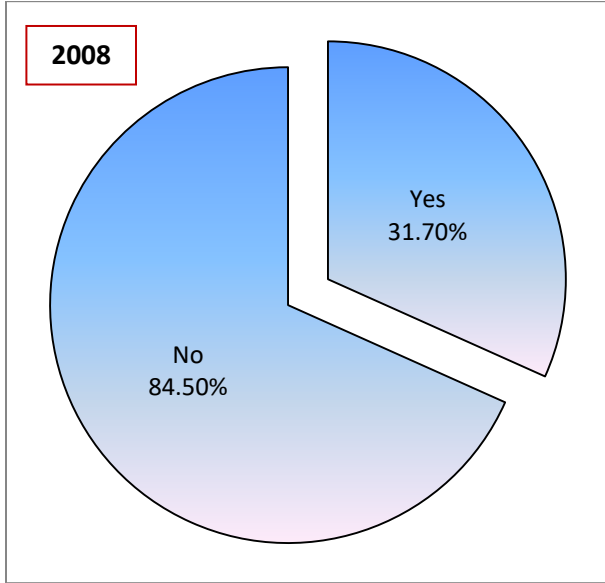
**Question:** Have you seen or heard any information in articles, advertisements, flyers, or other materials about water quality in lakes and streams in the Fairbanks area during the past year?



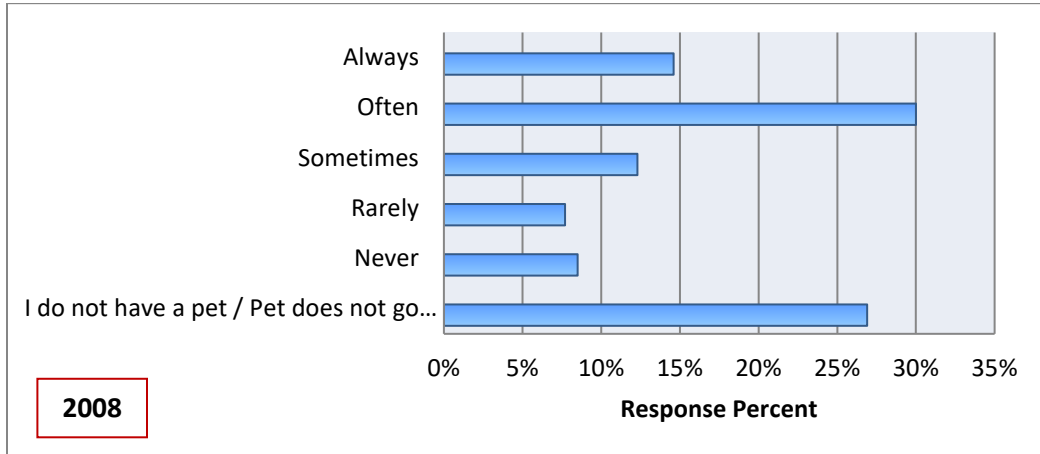
**Question:** Have you ever heard of the Fairbanks Storm Water Advisory Committee?



**Question:** Have you ever participated in a community stream cleanup event in Fairbanks or North Pole?



**Question:** If you have a pet, how often do you pick up their waste outdoors?



**N/A for 2014-15 and 2020 (question deleted from survey)**

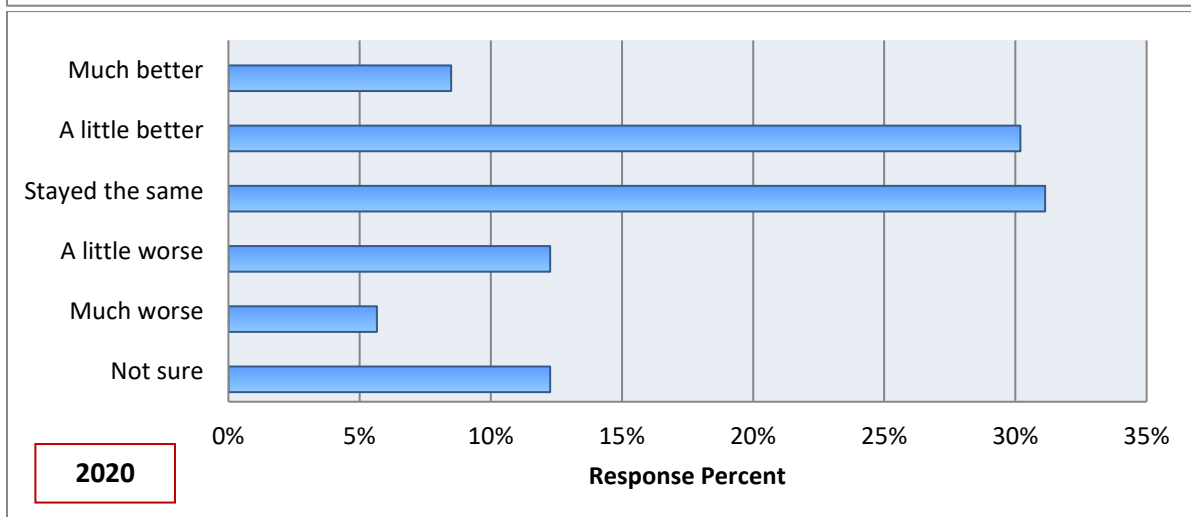
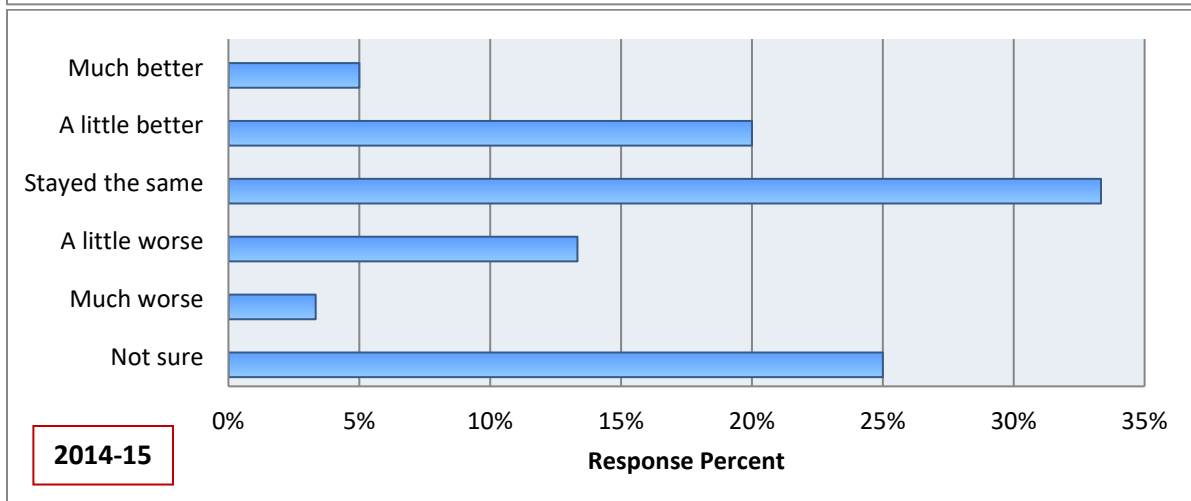
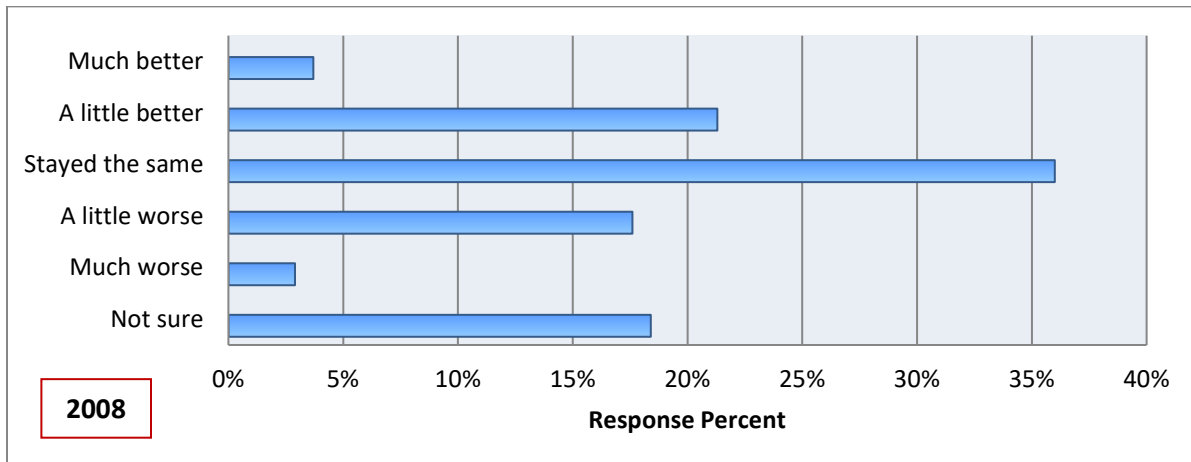
**Question:** How would you rate the water quality of the following water bodies in the Fairbanks area?

| <b>2008</b>               | <b>Excellent</b> | <b>Good</b> | <b>Fair</b> | <b>Poor</b> | <b>Not Sure</b> |
|---------------------------|------------------|-------------|-------------|-------------|-----------------|
| <b>Chena River</b>        | 7%               | 30%         | <b>37%</b>  | 13%         | 13%             |
| <b>Noyes Slough</b>       | 2%               | 4%          | 17%         | <b>60%</b>  | 18%             |
| <b>Chena Slough</b>       | 2%               | 10%         | 28%         | 25%         | <b>36%</b>      |
| <b>Other water bodies</b> | 6%               | 28%         | 28%         | 4%          | <b>35%</b>      |

| <b>2014-15</b>            | <b>Excellent</b> | <b>Good</b> | <b>Fair</b> | <b>Poor</b> | <b>Not Sure</b> |
|---------------------------|------------------|-------------|-------------|-------------|-----------------|
| <b>Chena River</b>        | 8%               | 28%         | <b>32%</b>  | 17%         | 15%             |
| <b>Noyes Slough</b>       | 3%               | 5%          | 22%         | <b>50%</b>  | 20%             |
| <b>Chena Slough</b>       | 5%               | 12%         | 27%         | <b>28%</b>  | <b>28%</b>      |
| <b>Other water bodies</b> | 10%              | 23%         | 22%         | 7%          | <b>38%</b>      |

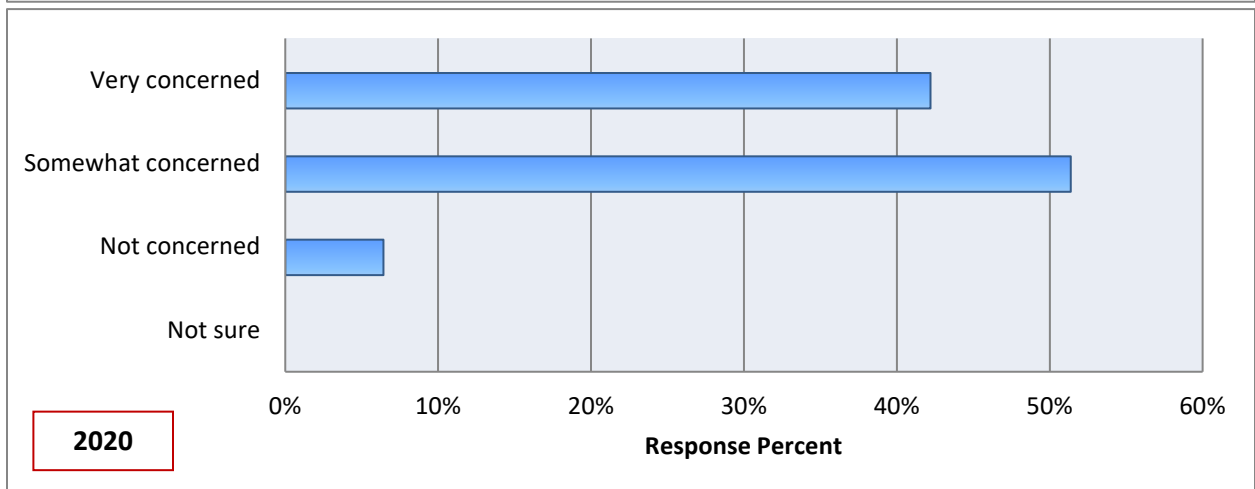
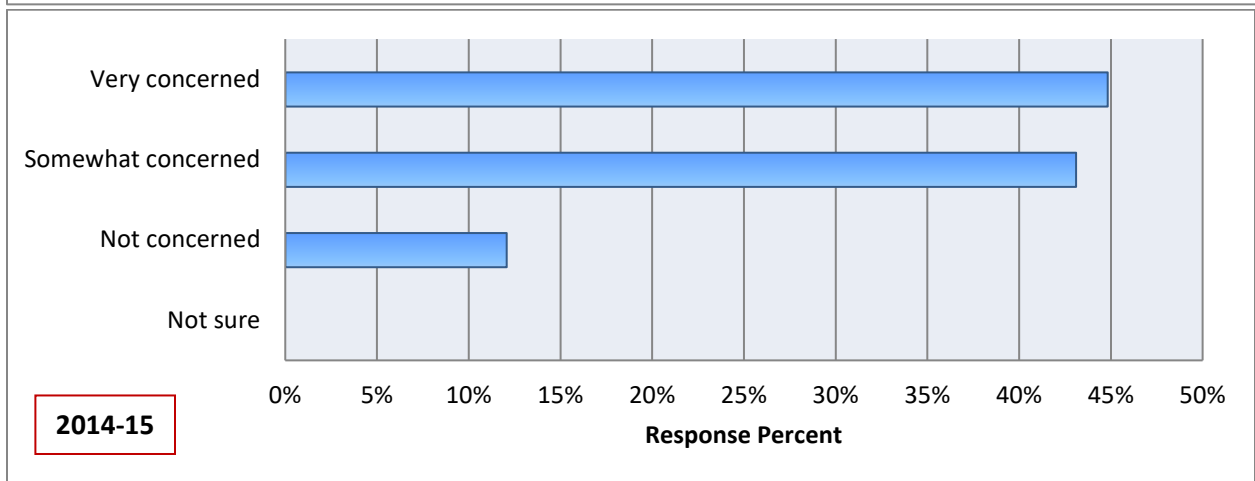
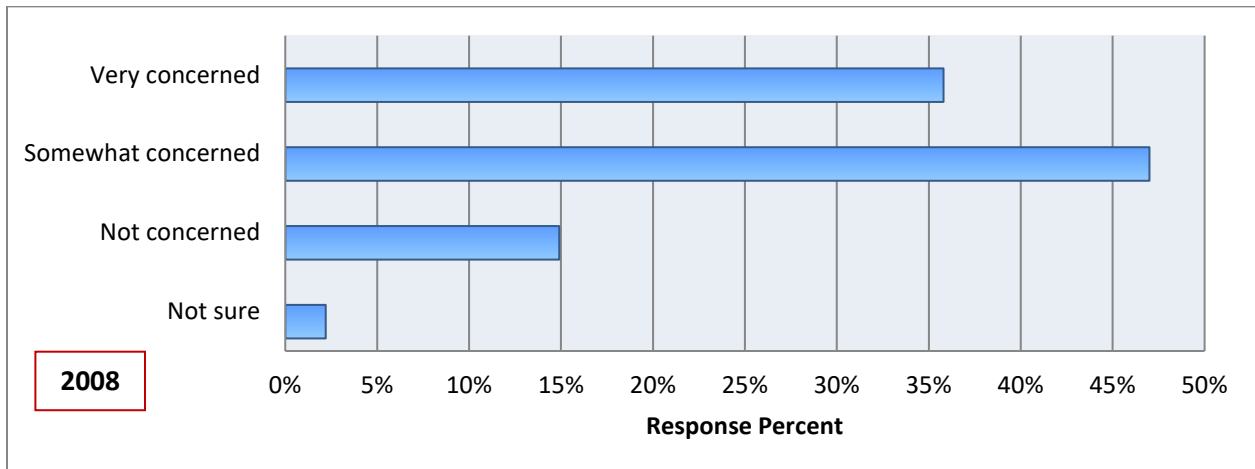
| <b>2020</b>               | <b>Excellent</b> | <b>Good</b> | <b>Fair</b> | <b>Poor</b> | <b>Not Sure</b> |
|---------------------------|------------------|-------------|-------------|-------------|-----------------|
| <b>Chena River</b>        | 6%               | <b>50%</b>  | 34%         | 7%          | 4%              |
| <b>Noyes Slough</b>       | 2%               | 11%         | 28%         | <b>46%</b>  | 13%             |
| <b>Chena Slough</b>       | 4%               | 18%         | <b>35%</b>  | 17%         | 27%             |
| <b>Other water bodies</b> | 4%               | <b>41%</b>  | 27%         | 5%          | 23%             |

**Question 9:** In the past five years, do you feel the overall water quality of lakes, streams, and other water bodies in the Fairbanks area has gotten better, stayed the same, or gotten worse?





**Question:** Overall, how concerned are you about pollution in lakes, streams, and other water bodies in the Fairbanks area?



**Question:** How significant do you think each of the following contribute to pollution of lakes, streams, and other water bodies in the Fairbanks area? \*not included in the 2020 survey

| <b>2008</b>                                  | <b>Very significant</b> | <b>Significant</b> | <b>Not significant</b> |
|--|-------------------------|--------------------|------------------------|
| Littering/trash                              | 62%                     | 31%                | 7%                     |
| Oil and antifreeze leaks from vehicles       | 39%                     | 38%                | 23%                    |
| Household waste (paint, used oil, batteries) | 32%                     | 37%                | 31%                    |
| Lawn/yard waste                              | 29%                     | 36%                | 35%                    |
| Fertilizers, pesticides, and herbicides      | 38%                     | 39%                | 23%                    |
| Pet waste                                    | 25%                     | 41%                | 35%                    |
| Failing septic tanks/pipes                   | 31%                     | 47%                | 21%                    |
| Fuel oil storage tanks                       | 36%                     | 32%                | 32%                    |
| Accidental commercial/industrial spills      | 31%                     | 37%                | 33%                    |
| Discharges from sewage treatment plants      | 22%                     | 35%                | 42%                    |
| Acid rain                                    | 11%                     | 25%                | 64%                    |
| Soil eroding from unstable stream banks      | 25%                     | 39%                | 37%                    |

| <b>2014-15</b>                               | <b>Very significant</b> | <b>Significant</b> | <b>Not significant</b> |
|--|-------------------------|--------------------|------------------------|
| Littering/trash                              | 47%                     | 42%                | 10%                    |
| Oil and antifreeze leaks from vehicles       | 51%                     | 34%                | 15%                    |
| Household waste (paint, used oil, batteries) | 34%                     | 53%                | 14%                    |
| Lawn/yard waste                              | 32%                     | 36%                | 32%                    |
| Fertilizers, pesticides, and herbicides      | 54%                     | 29%                | 17%                    |
| Pet waste                                    | 29%                     | 44%                | 27%                    |
| Failing septic tanks/pipes                   | 44%                     | 36%                | 20%                    |
| Fuel oil storage tanks                       | 39%                     | 42%                | 19%                    |
| Accidental commercial/industrial spills      | 44%                     | 41%                | 15%                    |
| Discharges from sewage treatment plants      | 32%                     | 31%                | 37%                    |
| Acid rain                                    | 14%                     | 39%                | 47%                    |
| Soil eroding from unstable stream banks      | 34%                     | 53%                | 14%                    |

N/A for **2020** (question deleted from survey)

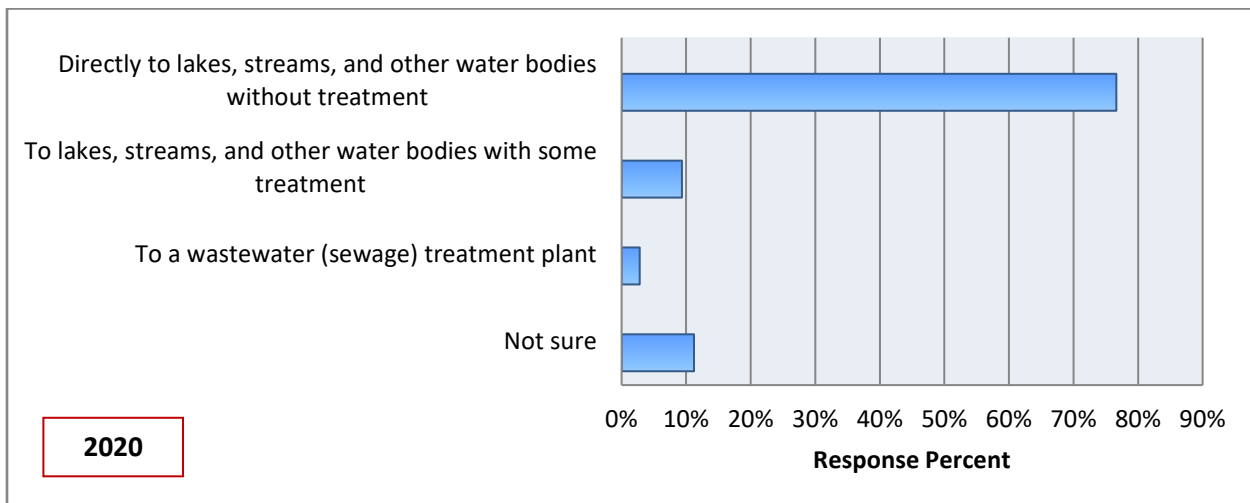
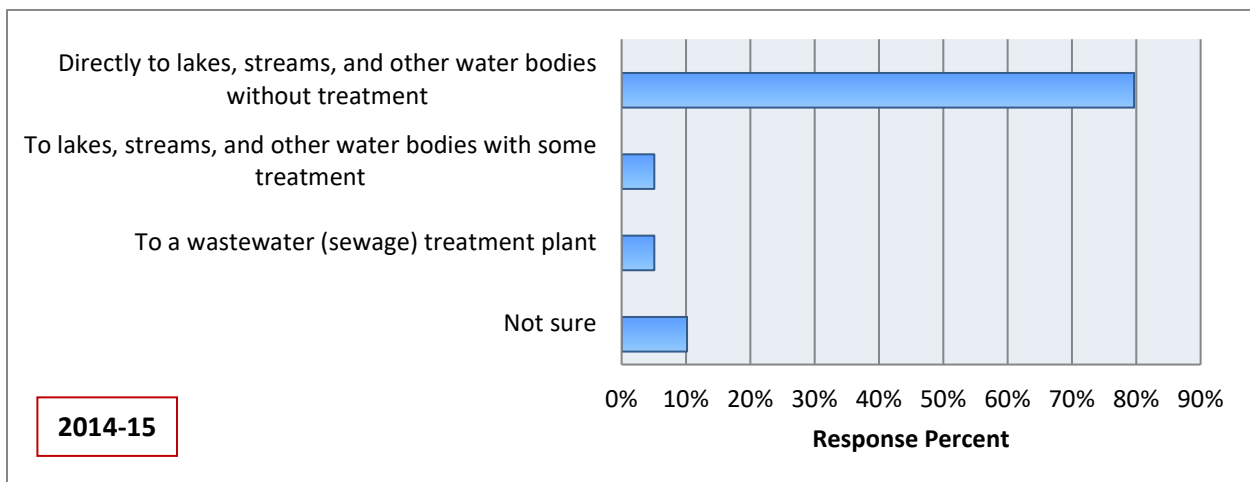
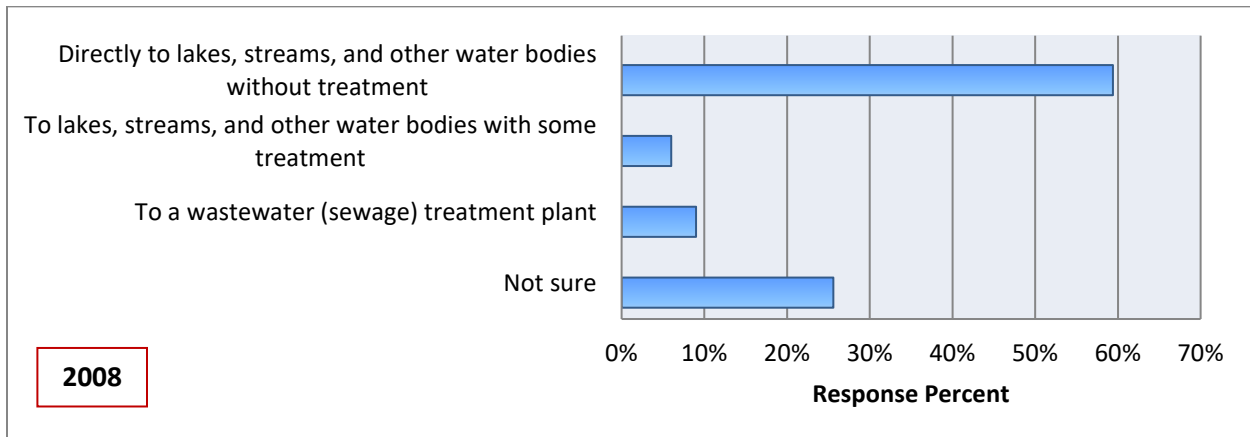
**Question:** For purposes of this survey, the term “storm water” refers to water from rain and melting snow that flows over land (developed and undeveloped), and enters drainage systems and nearby water bodies. How significant do you think storm water runoff from each of the following contributes to pollution of lakes, streams, and other water bodies in the Fairbanks area?

| <b>2008</b>                                       | <b>Very significant</b> | <b>Significant</b> | <b>Not significant</b> |
|---|-------------------------|--------------------|------------------------|
| <b>Parking lots, streets, and other roadways</b>  | <b>53%</b>              | 34%                | 13%                    |
| <b>Residential land areas</b>                     | 16%                     | <b>49%</b>         | 35%                    |
| <b>Farms and agricultural land areas</b>          | 15%                     | 34%                | <b>51%</b>             |
| <b>Commercial and industrial land areas</b>       | <b>43%</b>              | 41%                | 17%                    |
| <b>Construction sites or disturbed land areas</b> | <b>39%</b>              | 33%                | 29%                    |
| <b>Forested and undeveloped land areas</b>        | 4%                      | 14%                | <b>83%</b>             |

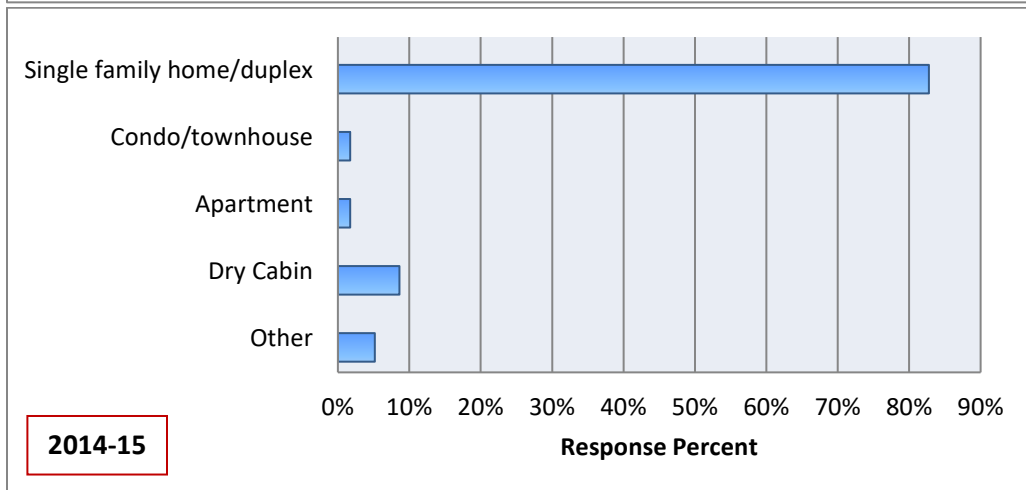
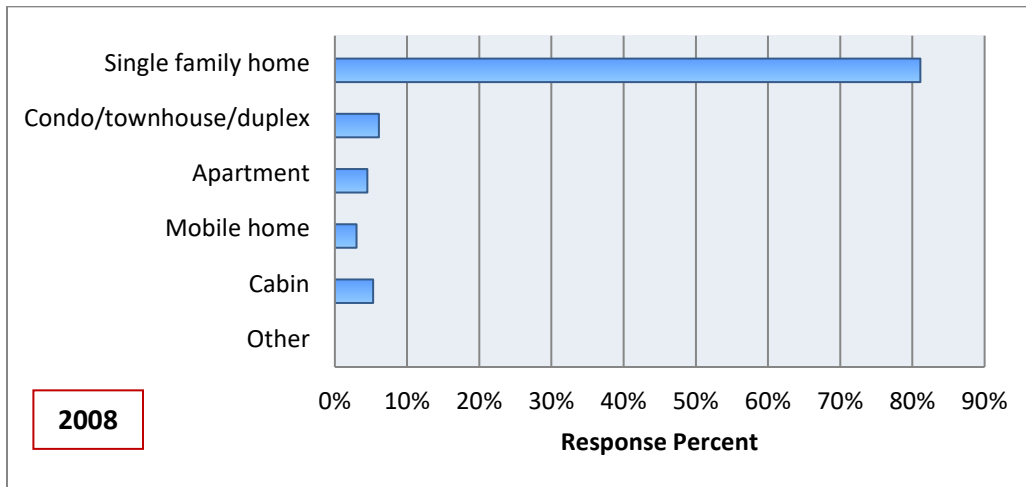
| <b>2014-15</b>                                    | <b>Very significant</b> | <b>Significant</b> | <b>Not significant</b> |
|---|-------------------------|--------------------|------------------------|
| <b>Parking lots, streets, and other roadways</b>  | <b>64%</b>              | 26%                | 10%                    |
| <b>Residential land areas</b>                     | 22%                     | <b>45%</b>         | 33%                    |
| <b>Farms and agricultural land areas</b>          | 24%                     | 36%                | <b>40%</b>             |
| <b>Commercial and industrial land areas</b>       | <b>60%</b>              | 29%                | 10%                    |
| <b>Construction sites or disturbed land areas</b> | 36%                     | <b>45%</b>         | 19%                    |
| <b>Forested and undeveloped land areas</b>        | 2%                      | 17%                | <b>81%</b>             |

| <b>2020</b>                                       | <b>Very significant</b> | <b>Significant</b> | <b>Not significant</b> |
|---|-------------------------|--------------------|------------------------|
| <b>Parking lots, streets, and other roadways</b>  | <b>64%</b>              | 33%                | 4%                     |
| <b>Residential land areas</b>                     | 21%                     | <b>56%</b>         | 23%                    |
| <b>Farms and agricultural land areas</b>          | 36%                     | <b>45%</b>         | 19%                    |
| <b>Commercial and industrial land areas</b>       | <b>63%</b>              | 36%                | 2%                     |
| <b>Construction sites or disturbed land areas</b> | <b>51%</b>              | 41%                | 7%                     |

**Question:** Where does storm water go after it enters a storm drain (curbside inlets, gutters, grates, etc.)?

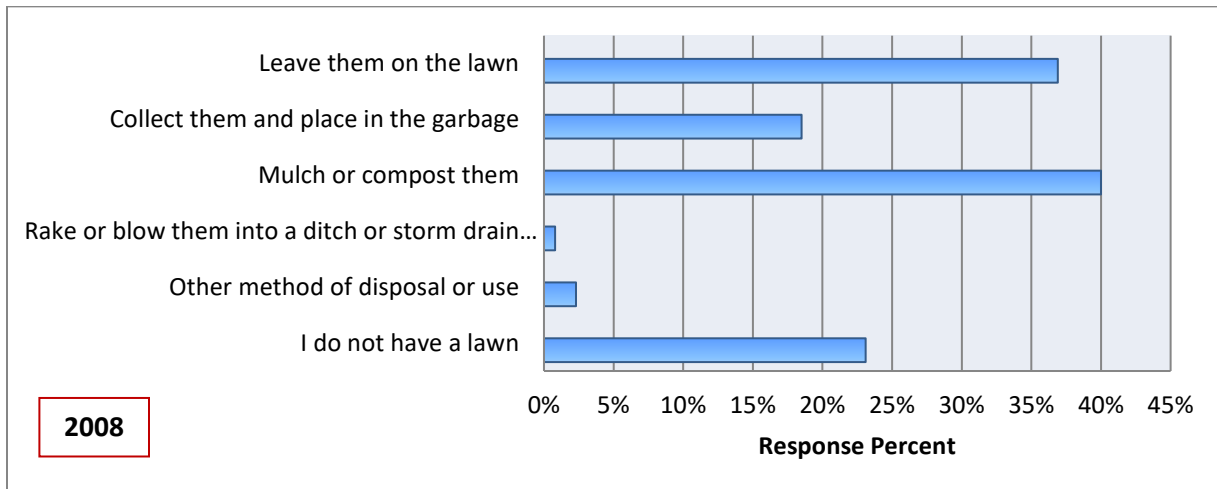


**Question:** Which of the following best describes your residence?

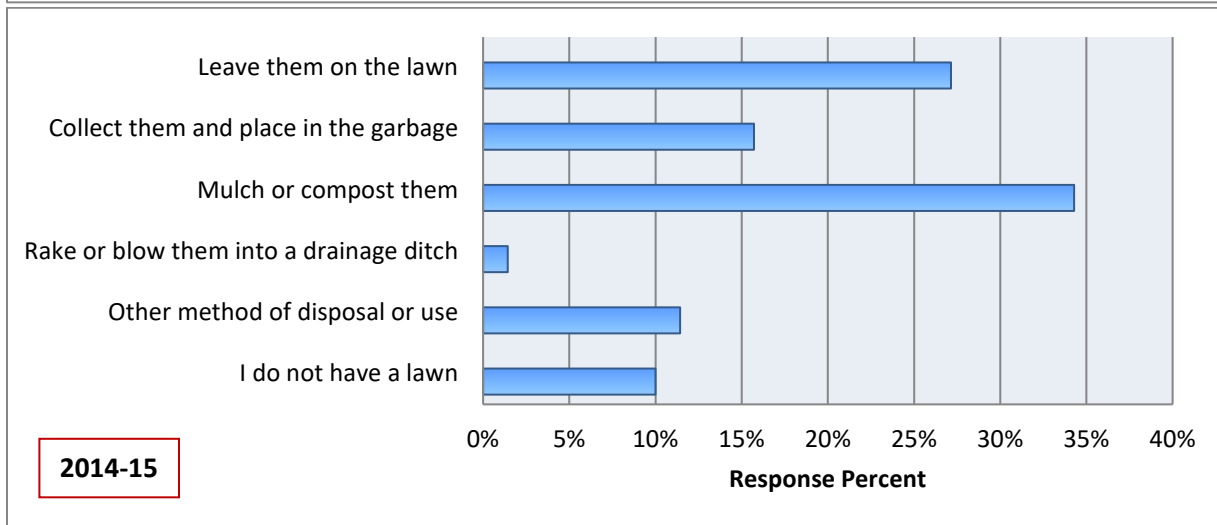


**N/A for 2020 (question deleted from survey)**

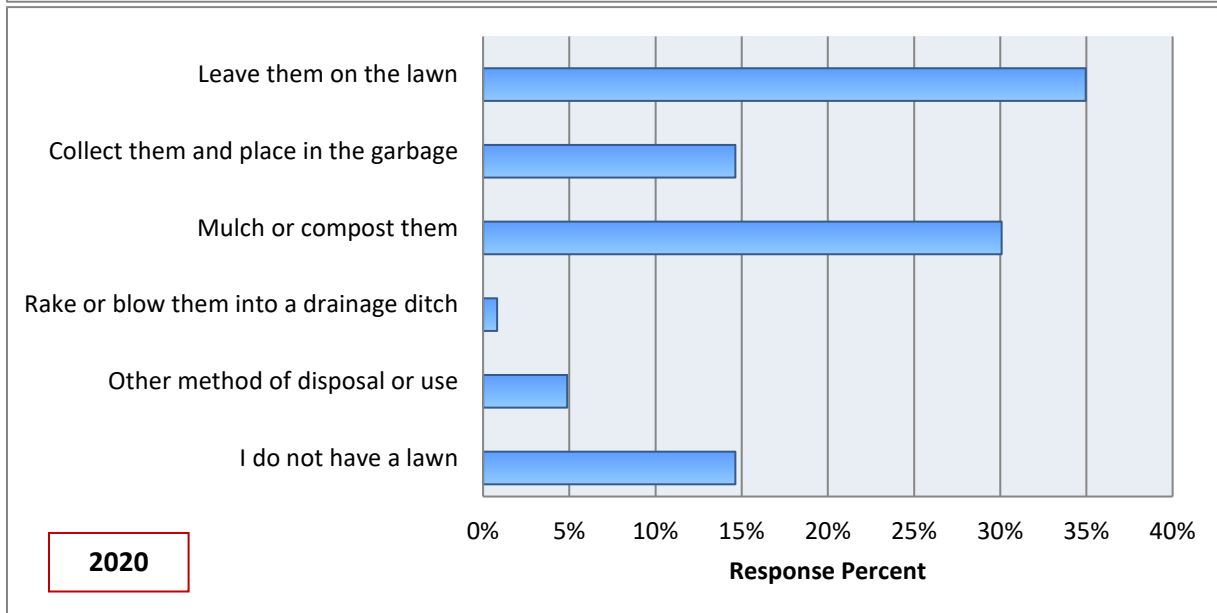
**Question:** If you have a lawn and mow your grass, what do you do with the grass clippings? Please check all that apply.



**2008**

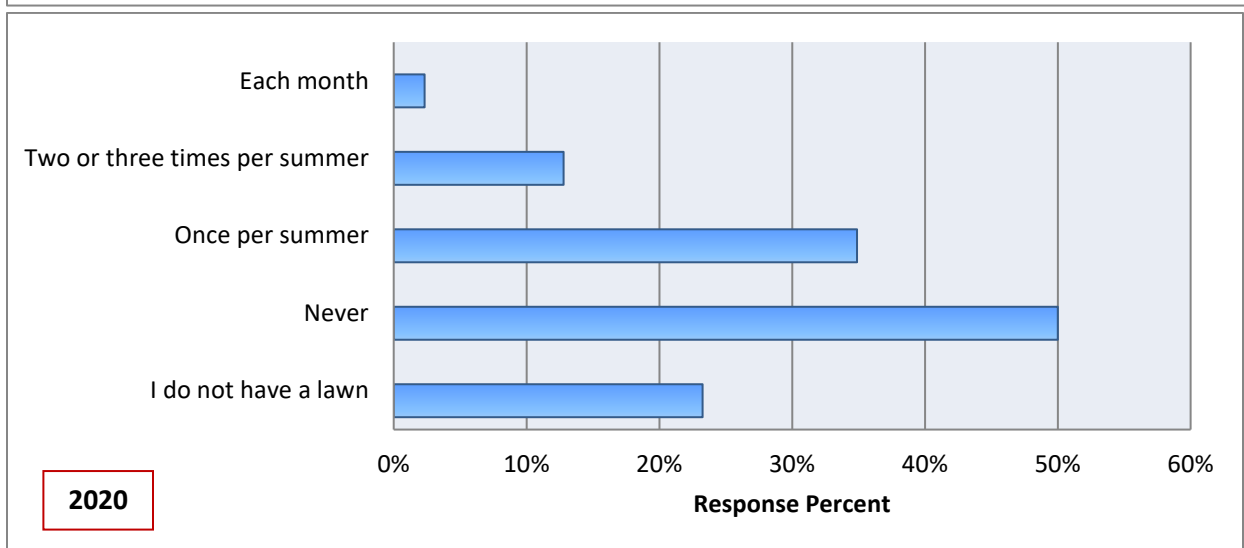
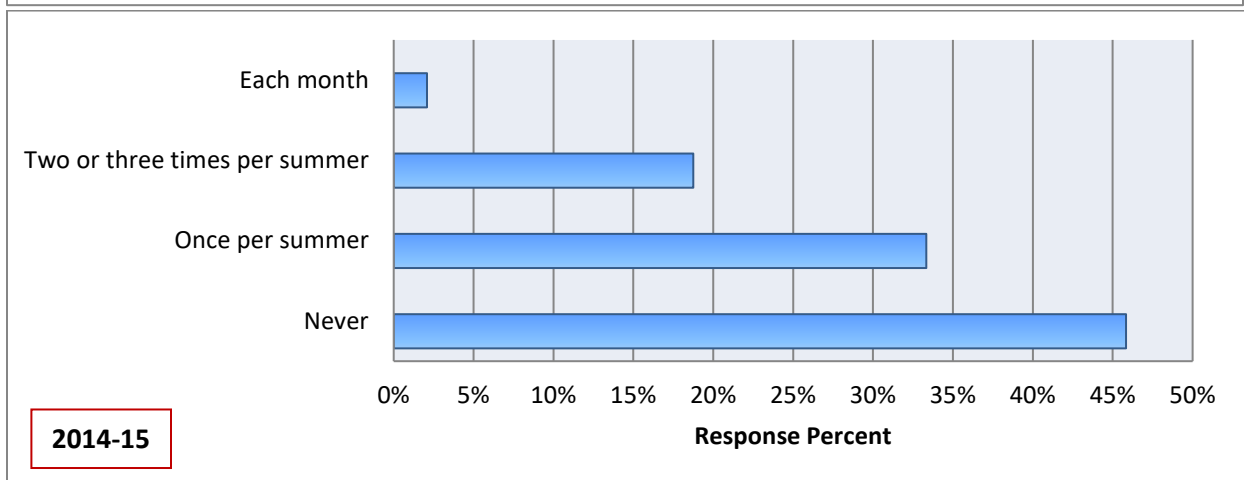
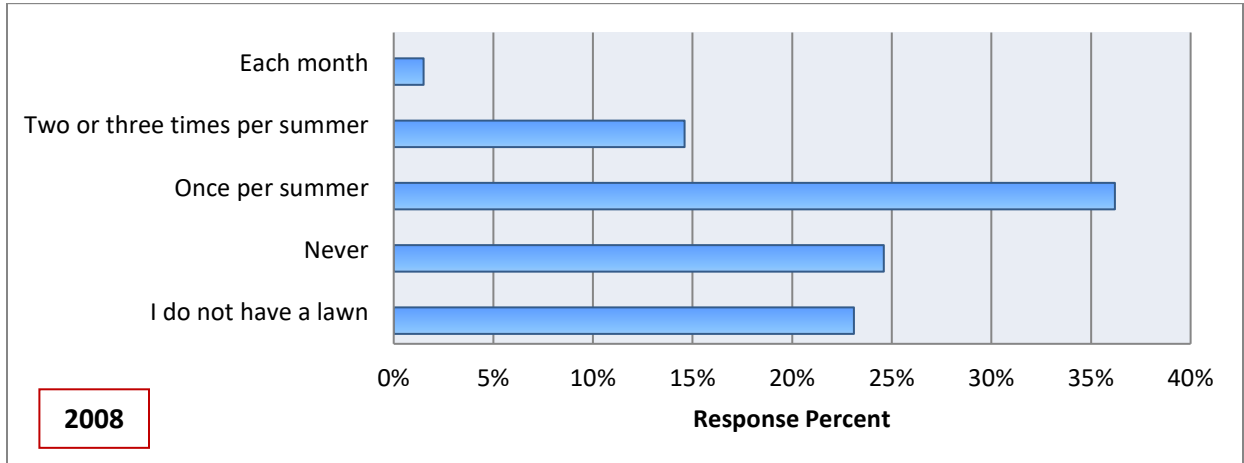


**2014-15**

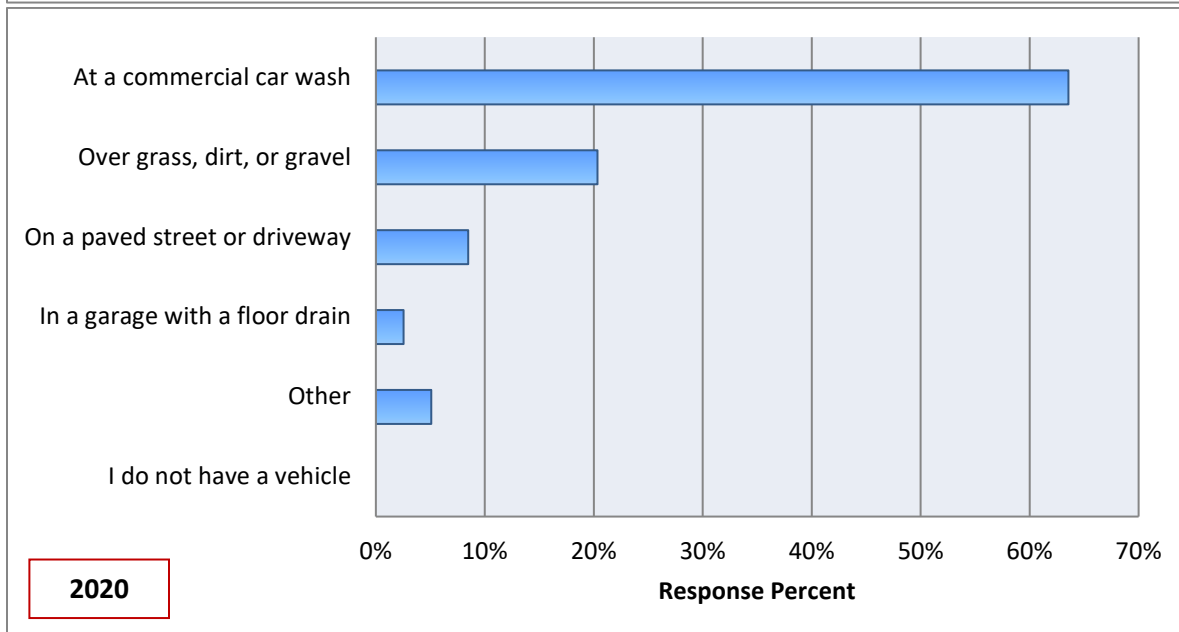
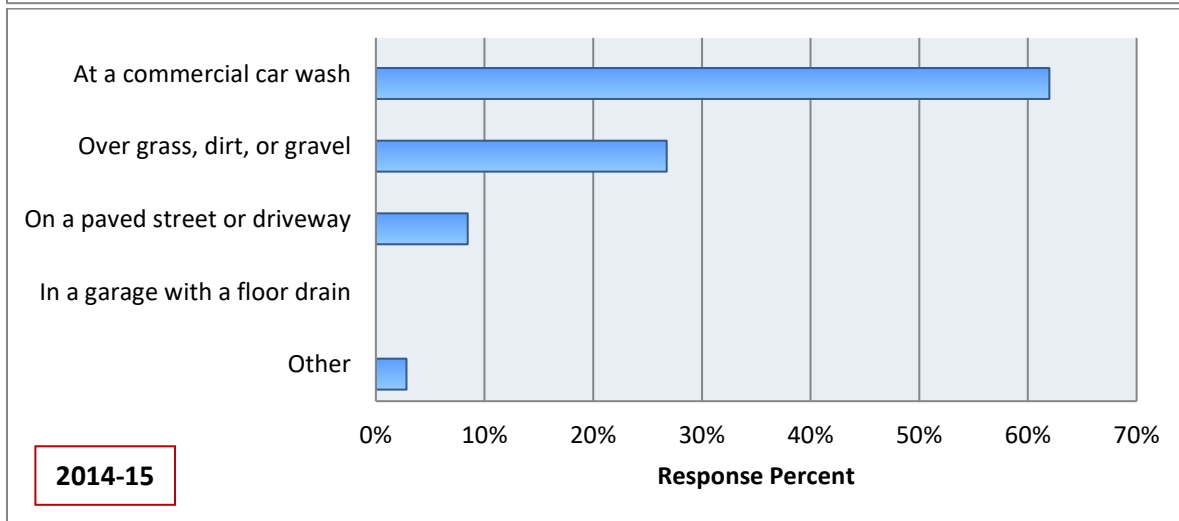
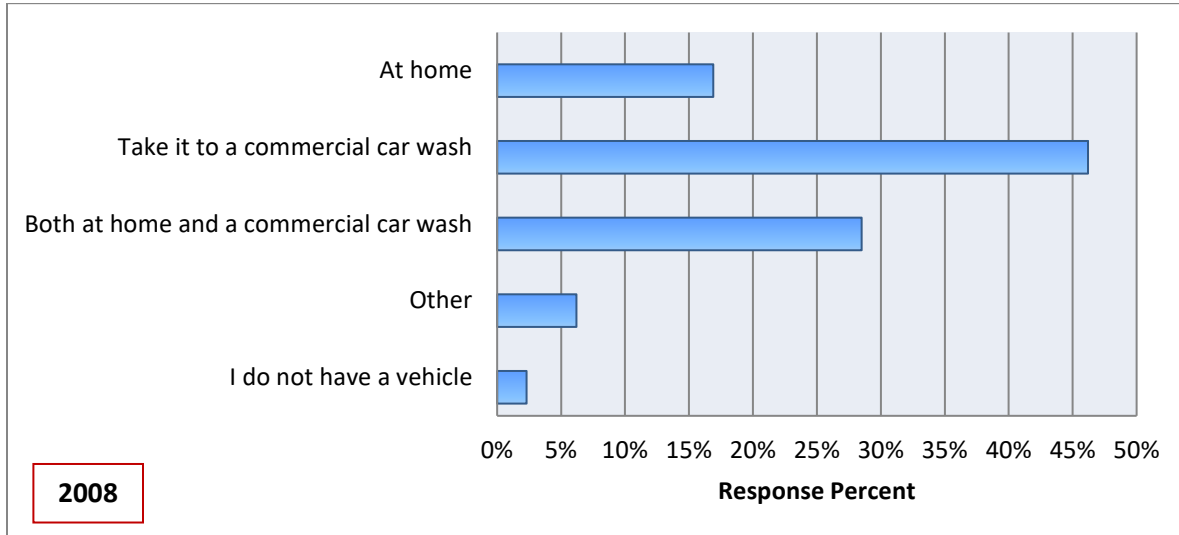


**2020**

**Question:** If you have a lawn, how often do you use fertilizer on your lawn during the summer months?

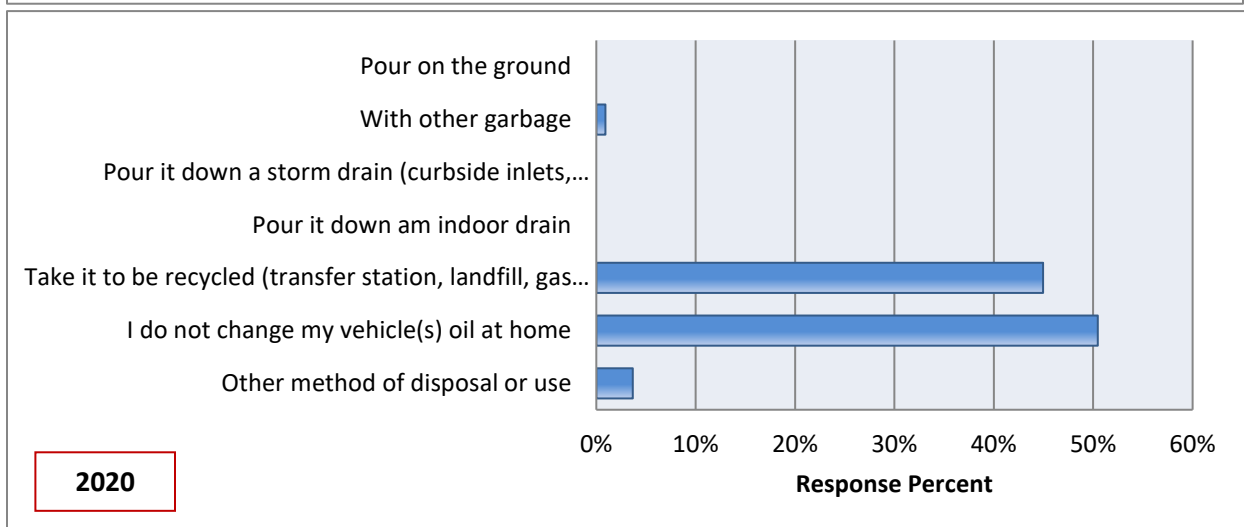
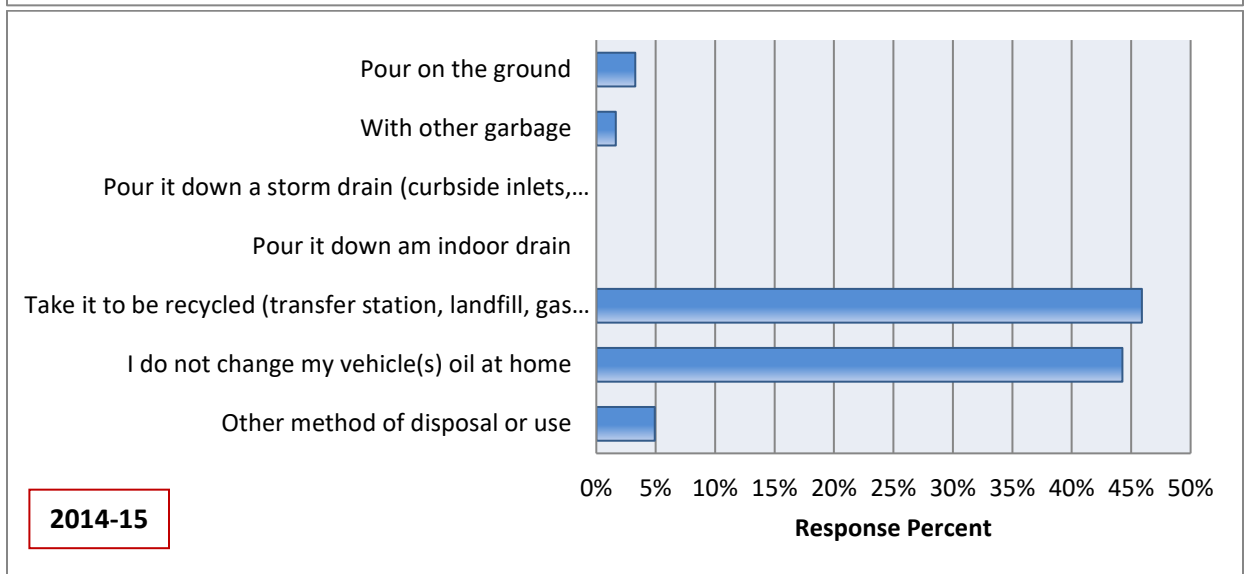
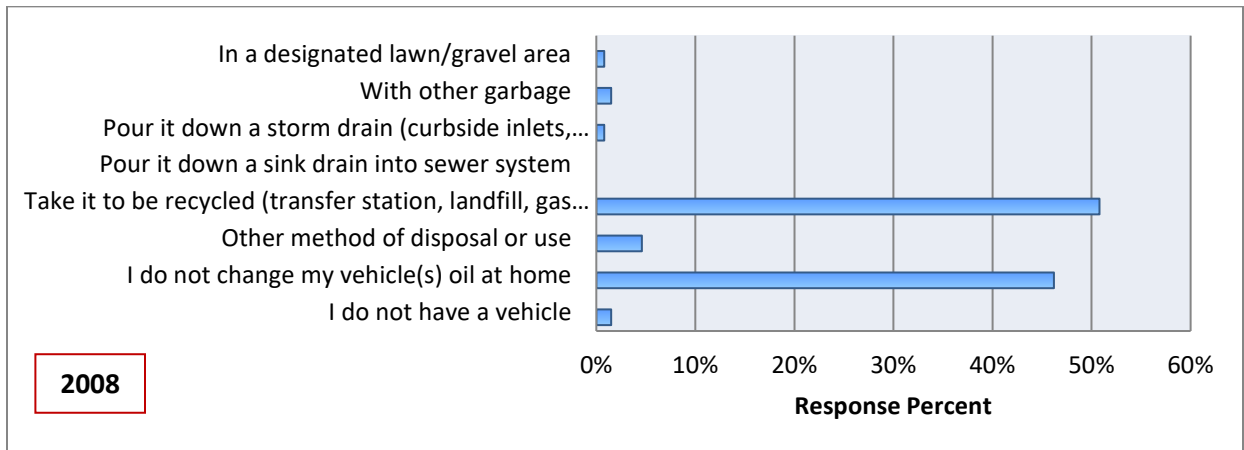


**Question:** Where do you wash your personal vehicle(s)? Please check all that apply.

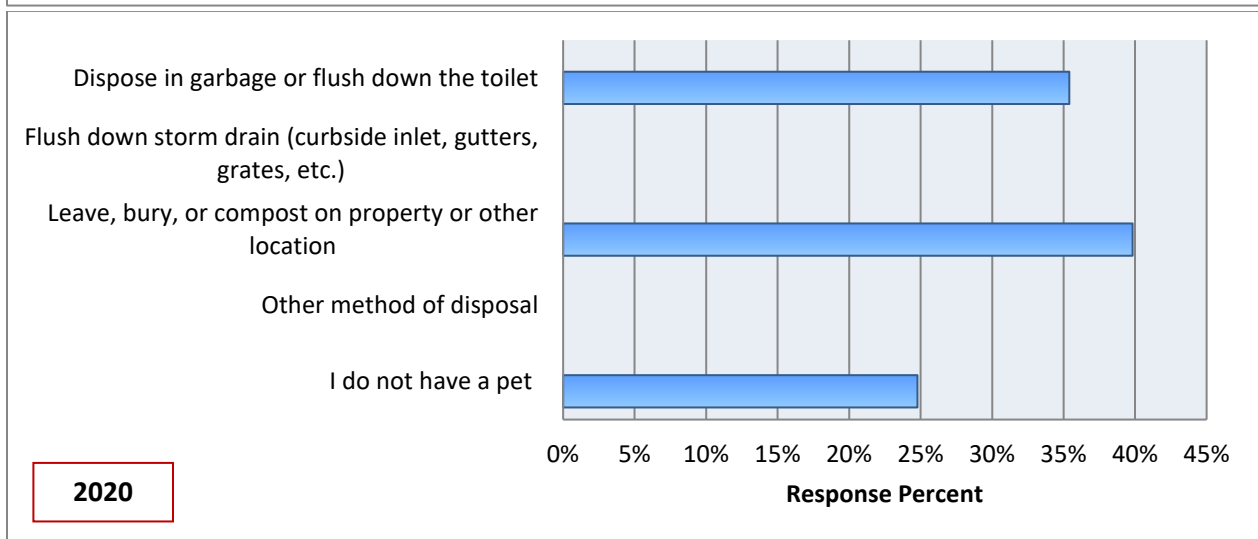
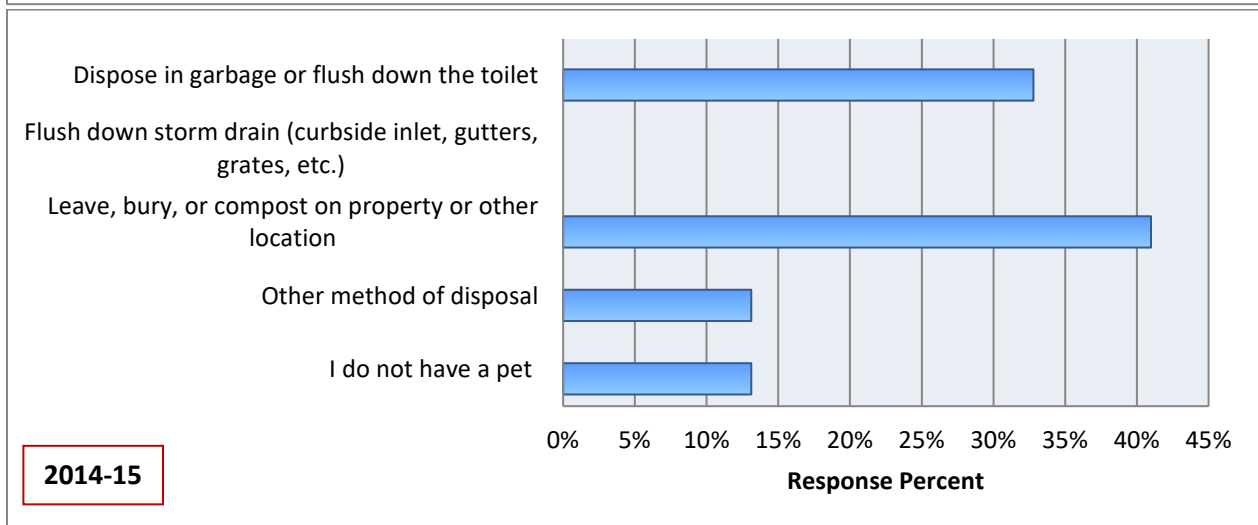
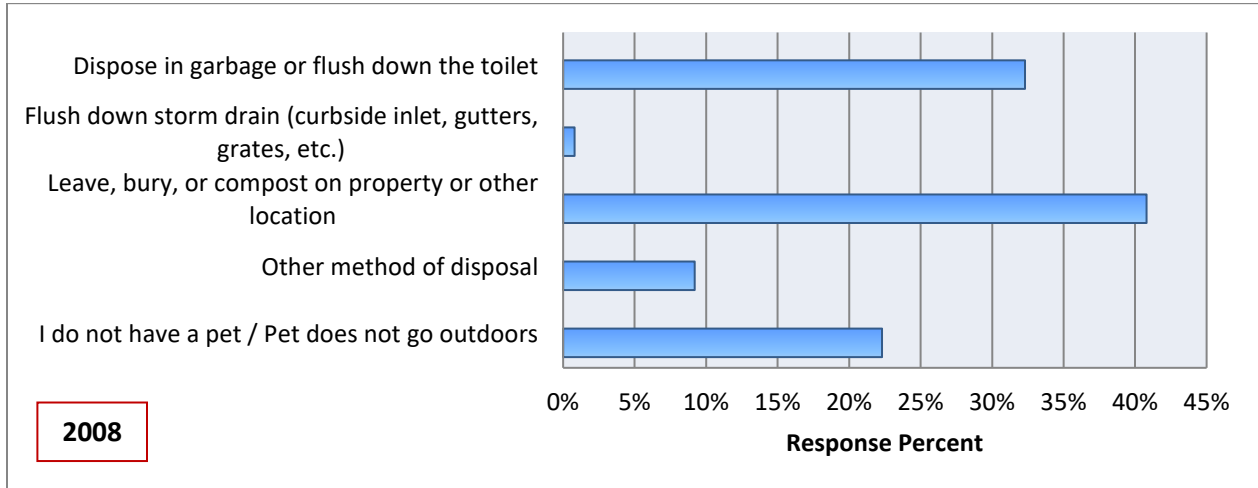




**Question:** If you change your vehicle(s) oil at home, how do you dispose of the used oil? Please check all that apply.

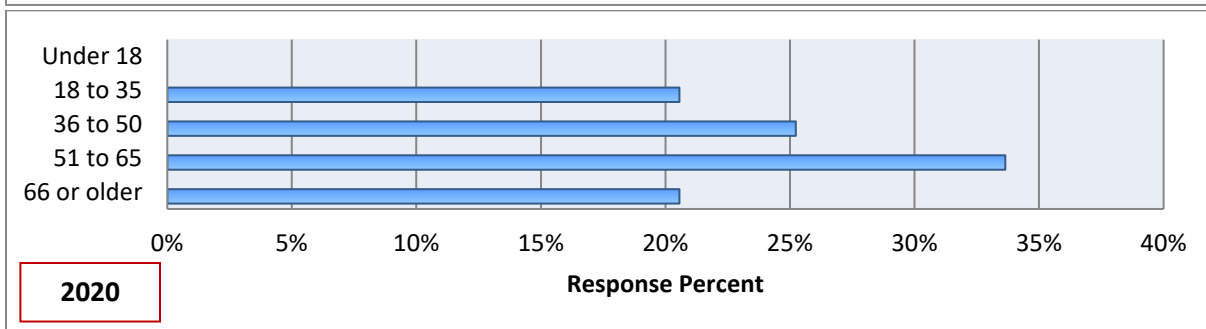
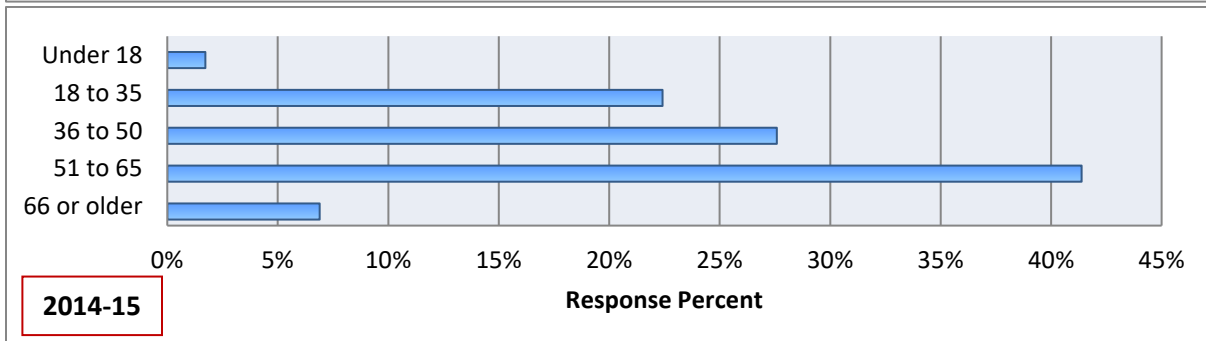
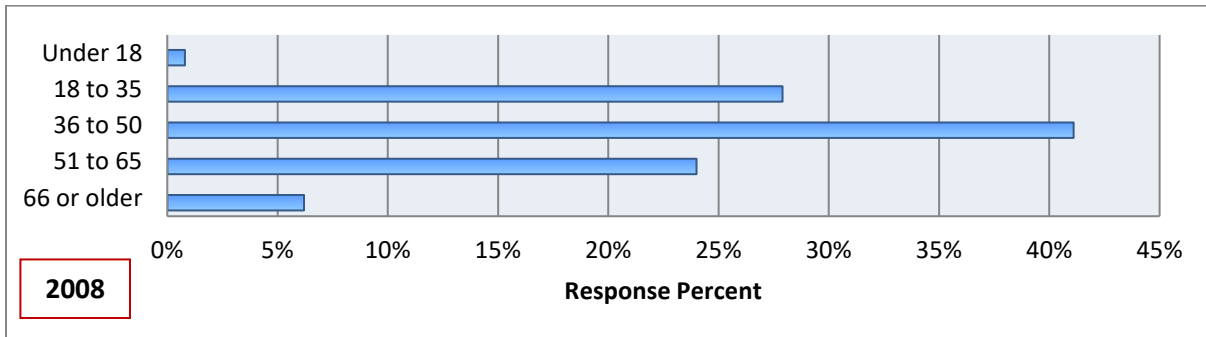


**Question:** How do you dispose of pet waste? Please check all that apply.

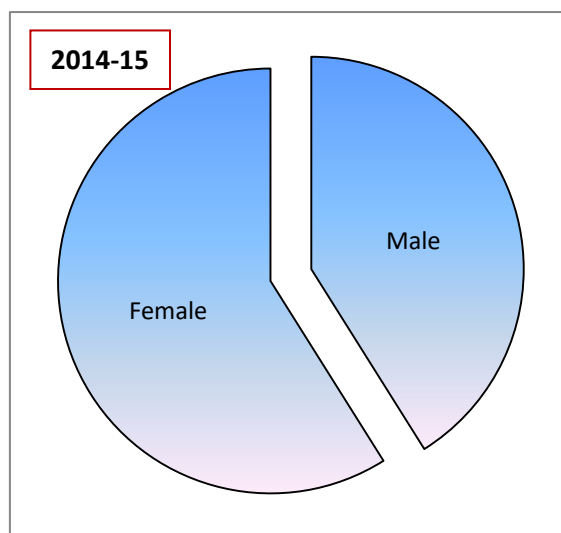
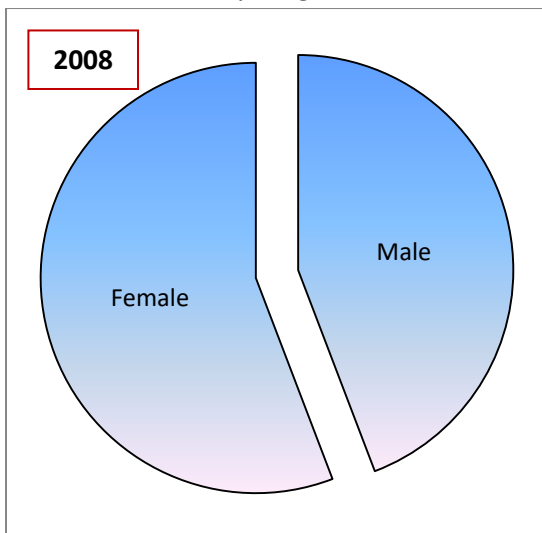


## DEMOGRAPHICS

**Question:** Which of the following ranges includes your age?

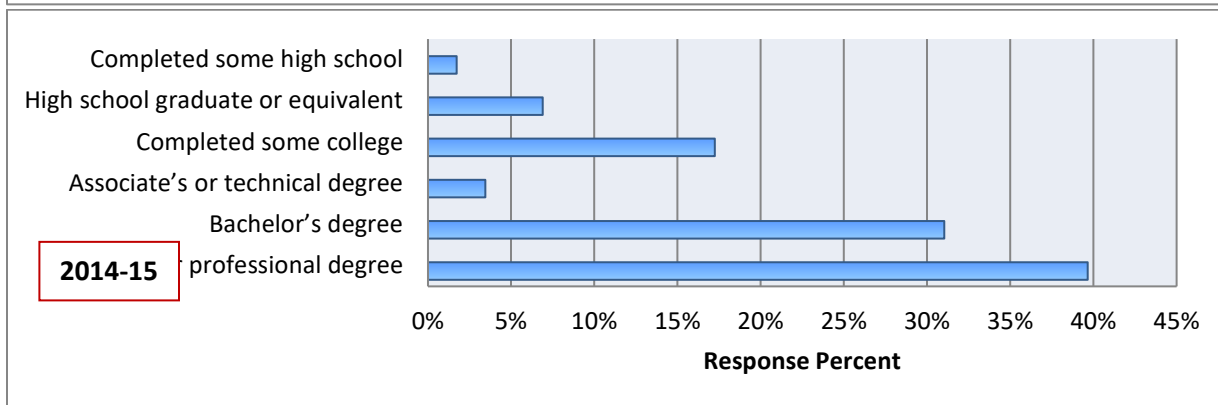
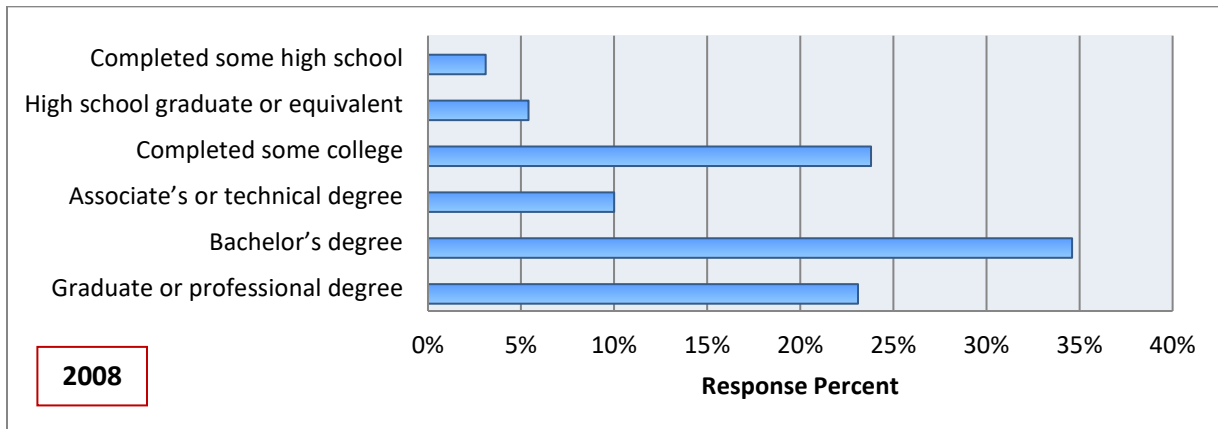


**Question:** What is your gender?



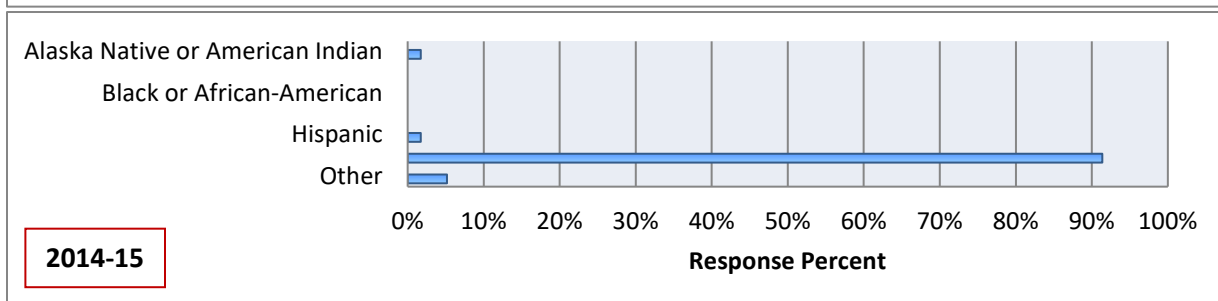
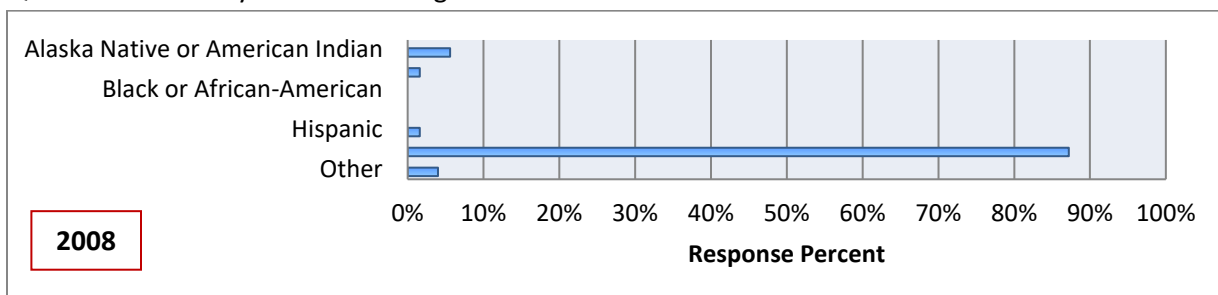
**N/A for 2020 (question deleted from survey)**

**Question 23:** Which of the following best describes your highest level of education?



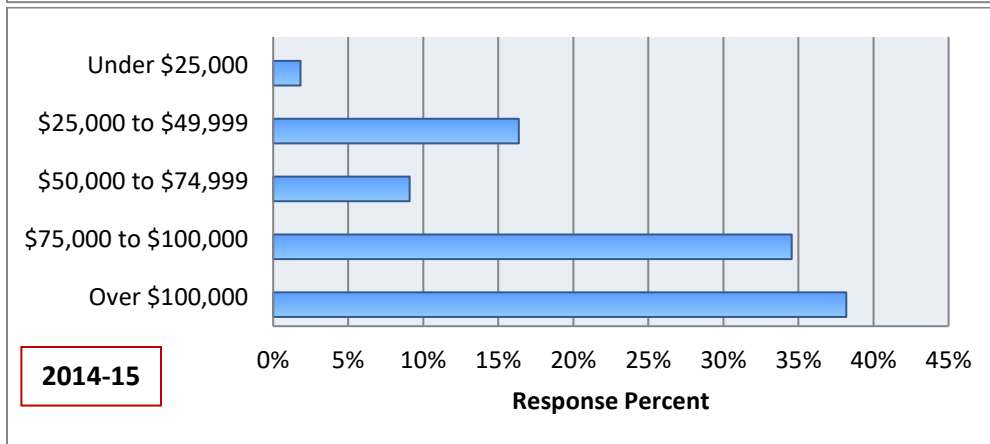
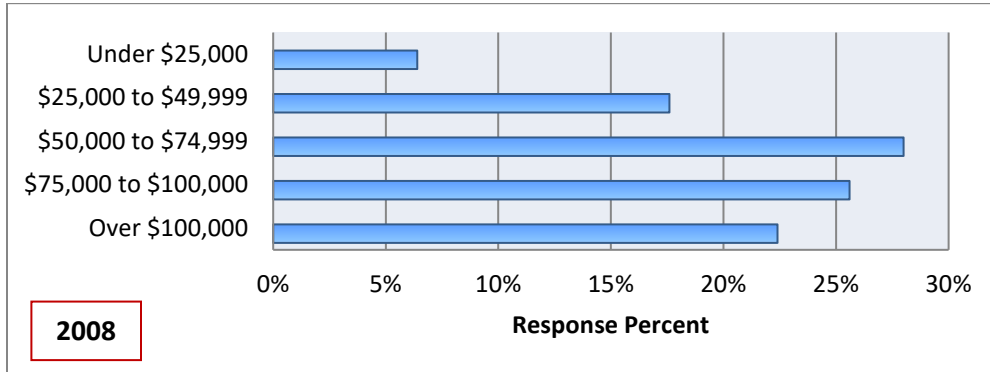
N/A for 2014-15 and 2020 (question deleted from survey)

**Question:** What is your ethnic background?



N/A for 2020 (question deleted from survey)

**Question 24: What is your gross annual household income?**



**N/A for 2020 (question deleted from survey)**

**New question on the 2020 survey.**

**Question:** Have you ever participated or hear of the Adopt-A-Stream or Storm Drain Art Contest?

