

# SEMCOG

## *Regional Water Quality Survey*

### Findings Report

---

conducted for

The Southeast Michigan  
Council of Governments



by

**ETC Institute**

Olathe, Kansas

September 2004

Section 1:

# Executive Summary

---

---

# *2004 Regional Water Quality Survey*

## Executive Summary

---

### **Purpose and Methodology**

***Purpose.*** The Southeast Michigan Council of Governments and the Southeast Michigan Partners for Clean Water conducted a water quality survey during the summer of 2004. The purposes of the survey were to provide a benchmark to gauge the effectiveness of regional and local public outreach campaigns, leverage resources, and provide the opportunity to compare results from different areas of the SEMCOG region.

***Method of Administration.*** A four-page survey and cover letter were mailed to a stratified random sample of 10,800 households in the SEMCOG planning area, which includes the City of Detroit along with Livingston, Macomb, Monroe, Oakland, St. Clair, Washtenaw, and Wayne counties. Another 1200 households outside the SEMCOG area were selected for a total sample of 12,000 households. Approximately 10 days after the surveys were mailed, residents who received the survey were contacted by phone. Those who indicated that they had not returned the survey were given the option of completing it by phone.

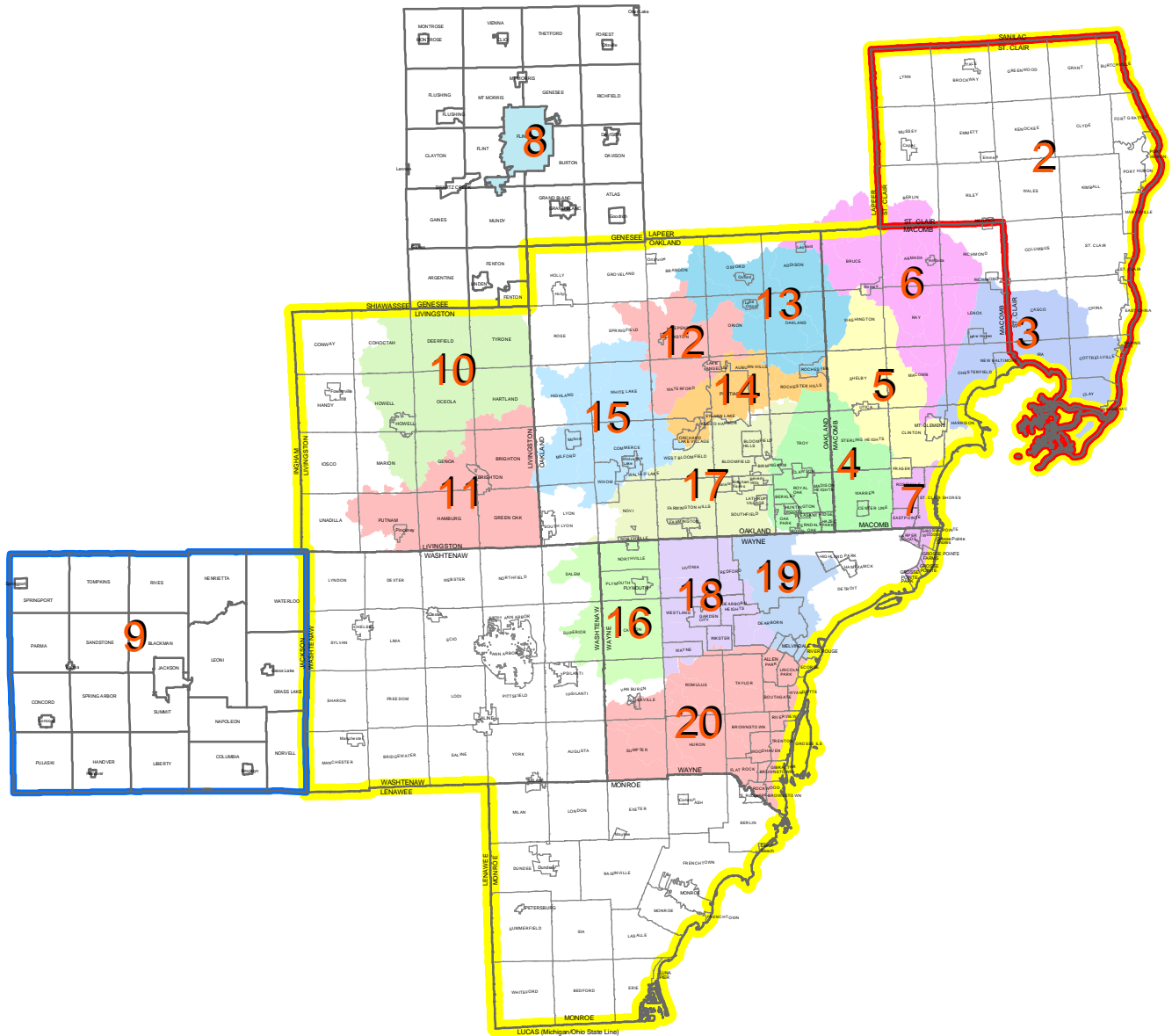
Of the 10,800 households in the SEMCOG planning area that received a survey, 1,824 households returned the survey by mail and 1,896 completed the survey by phone for a total of 3,720 completed surveys. An additional 411 surveys were completed outside the SEMCOG area with residents of the City of Flint and Jackson County.

The sample was stratified to obtain at least 200 completed surveys from the 7-county SEMCOG area and each of nineteen subareas (see figure A). This was done to ensure that the results from each subarea would be statistically representative of all households within the subarea. The results for each watershed have a precision of at least +/-6.9% at the 95% level of confidence. The overall results for the SEMCOG region have a precision of at least +/-2% at the 95% level of confidence.

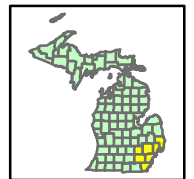
Since the population of the subareas is not equal, the final survey results were weighted based on the relative population of each subarea. This was done to ensure that overall results were representative of the entire SEMCOG region. The weighting factors and results for individual subareas are provided in Section 3 of this report.

Figure A

# SEMCOG Public Education Survey Subareas



- ▬ 1 SEMCOG 7 County Area
- ▬ 2 St. Clair County
- ▬ 9 Jackson County



The results that are reported on the following pages and in Section 2 of this report reflect the weighted totals for the SEMCOG region. The results for areas outside the SEMCOG area (City of Flint and Jackson County) are provided separately in Section 4 of this report.

## Major Findings

### **Perceptions and Value of Water Resources**

Residents were asked to rate the quality of water in lakes, rivers, and streams in the community where they live. Twenty-percent (20%) of those surveyed thought water quality was improving (“somewhat better” or “much better”). More than one-third (36%) reported that they thought water quality was getting worse (“somewhat worse” or “much worse”). Approximately one-fourth (27%) thought it was “staying the same,” and 17% indicated that they “didn’t know.”

The activities that households were most likely to have done in or near lakes and streams in the region during the past year were: hiking/walking (48%), picnicking (40%) and swimming (37%). About one-fourth (23%) of those surveyed indicated that they did not participate in activities in or near lakes and streams in the region during the past year.

62% of those surveyed thought the way they cared for their lawn and home affects the quality of water in lakes and streams in the community where they live; 27% did not, and 11% indicated that they “didn’t know.”

32% of those surveyed indicated that their household had taken some type of action to protect water resources in the past two years; 58% had not, and 10% indicated that they “didn’t know” if they had done anything that would have helped protect water resources.

### **Connection of Stormwater Runoff and Water Resources**

Residents were asked several questions regarding stormwater runoff. Selected findings are listed below:

- 40% of those surveyed thought industrial discharge was the greatest contributor of pollution to lakes, rivers and streams. Sewage overflow was second (27%) followed by storm water runoff (23%) and wastewater treatment plant discharge (10%).

- Forty-three percent (43%) of those surveyed indicated that they “didn’t know” where stormwater goes after it enters a storm drain or roadside ditch. Approximately one-third (30%) thought stormwater goes directly to lakes/streams without treatment; 17% thought it goes to a treatment plant, and 10% thought it goes to lakes/streams with treatment.
- Only 14% of those surveyed knew that they lived in a watershed. Half (50%) of those surveyed indicated that were not familiar with the term “watershed.” More than one-third of those surveyed indicated that they did not live in a watershed (20%) or that they lived near, but not in, a watershed (16%).
- More than three-fourths (76%) of those surveyed agreed with the statement that the quality of local streams where they live affects the Great Lakes and Lake St. Clair.
- Nearly two-thirds (65%) of the respondents indicated that they had not seen road signs identifying rivers or watersheds in their community.

### **Current Activities**

Residents were asked several questions regarding lawn and home care activities. Some of the findings are listed below:

- Nearly one-fourth of those surveyed (22%) indicated that they typically wash their vehicles at home in the driveway. Most (72%) of those surveyed indicated that they use a car wash.
- 16% of those surveyed indicated that members of their household usually change motor oil, transmission fluid or radiator fluid for a vehicle at their home.
- Two thirds (66%) of those surveyed indicated that their household uses a community collection site to dispose of household hazardous waste, such as old oil, fluids from vehicles, batteries, and pesticides; 16% of those surveyed indicated that their household typically disposes of household hazardous waste with their regular trash.
- Half (50%) of those surveyed who were not using a community collection site for household hazardous waste indicated that the reason they did not use a community collection site was because they did not know where one was located.

- Nearly one-third (30%) of those surveyed indicated that their household uses fertilizers on their lawn at least three times per year. Almost two-thirds (62%) indicated they use fertilizer on their lawn at least once a year.
- The types of fertilizer that households were most likely to use on their lawn were: weed and feed (43%), seasonal varieties (17%), slow release nitrogen (16%), and low phosphorous (9%). One-fourth (26%) of those surveyed did not know what type of fertilizer their household used.
- The most common reason residents gave for selecting the type of fertilizer or pesticide they use was previous experience with a product (36%). While only 18% of the respondents who use fertilizer indicated that the safety of the environment was an important reason for selecting the type of fertilizer their household used, this choice was second after previous experience with the product.
- More than one-quarter (27%) of those surveyed indicated that their household uses a lawn service for fertilizer and/or pesticide applications.

### **Willingness to Take Action to Help Reduce Pollution of Streams and Lakes.**

Residents were asked how willing they would be to perform various actions to help reduce pollution in lakes and streams. Residents were most willing to (1) dispose of hazardous waste at a community collection day (86%), (2) sweep excess fertilizer/grass clippings into their lawn (82%), (3) change their car washing practices (79%), and (4) promptly pick up their pet's waste (79%). Residents were somewhat less willing to (1) landscape their yard with plants native to Michigan (69%) and change lawn watering practices (65%).

### **Best Ways to Inform Residents About Ways to Protect Lakes and Streams.**

The top four ways residents preferred to receive information about what they can do to protect lakes and streams were from their community newspaper (50%), television news (43%), major newspapers (38%), and municipal newsletter (31%).

## **Implications of Results**

The survey results presented in this report provide a baseline for evaluating the effectiveness of regional and local water quality initiatives over time. This data will assist SEMCOG and the Southeast Michigan Partners for Clean Water in its recent public outreach campaign, "Our Water.

## *2004 SEMCOG Regional Planning Survey*

---

Our Future. Ours to Protect.” This information will also provide baseline information to over 160 communities implementing public education programs as part of meeting their federal stormwater regulations.

Overall, this survey shows that residents are concerned about the quality of the rivers and lakes in Southeast Michigan. Although concerned, residents continue to value and use the resource through numerous recreational activities.

The survey points out that while many residents understand that their actions at home affect water quality, they are not making the entire connection that the storm drain in the street leads directly to lakes and rivers.

Finally, the survey shows that public education programs, such as proper disposal of yard waste, have been successful. This provides positives to build on for other education programs, such as increasing the use of low phosphorus fertilizer. Most importantly, there is a willingness in Southeast Michigan to make some adjustments in daily habits to protect the water resources. Thus, there is value added in protecting water quality that can be achieved with public education efforts that tap the “willingness” to help expressed in this survey.



Section 2:  
**Charts and Graphs**

---

# 2004 SEMCOG Regional Water Quality Survey

Source: ETC Institute (September 2004 - SEMCOG)

## Q1. How Residents Think the Quality of Water in Lakes, Rivers, and Streams in the Community Where They Live is Changing

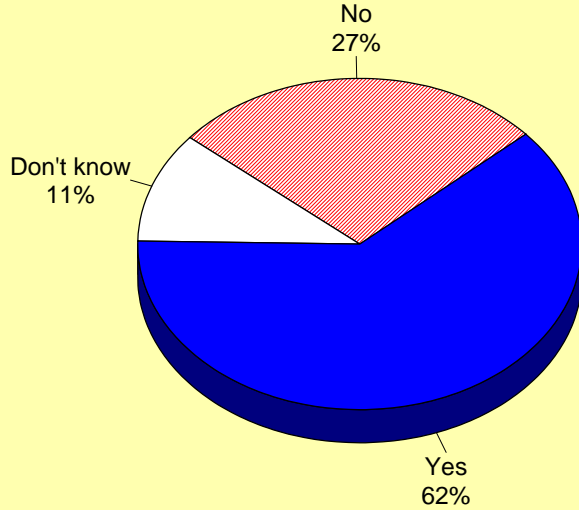
by percentage of respondents



Source: ETC Institute (September 2004 - SEMCOG)

**Q2. Do You Think the Way You Care for Your Lawn and Home Affects the Quality of Water in Lakes and Streams in the Community Where You Live?**

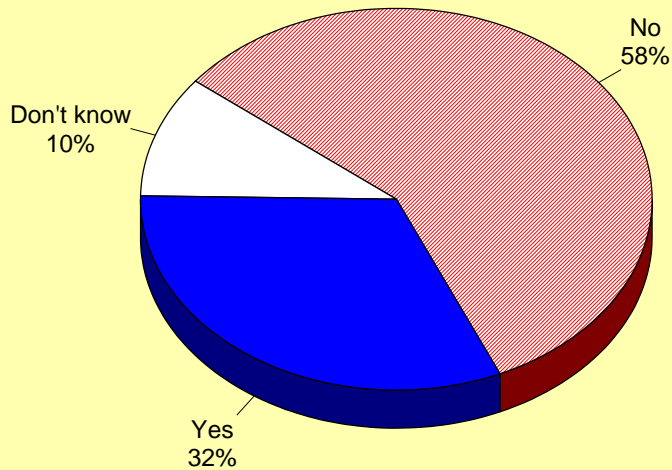
by percentage of respondents



Source: ETC Institute (September 2004 - SEMCOG)

**Q3. In the Past 2 Years, Have You or Someone in Your Household Taken Action in Your Home, Yard or Community to Protect Water Resources?**

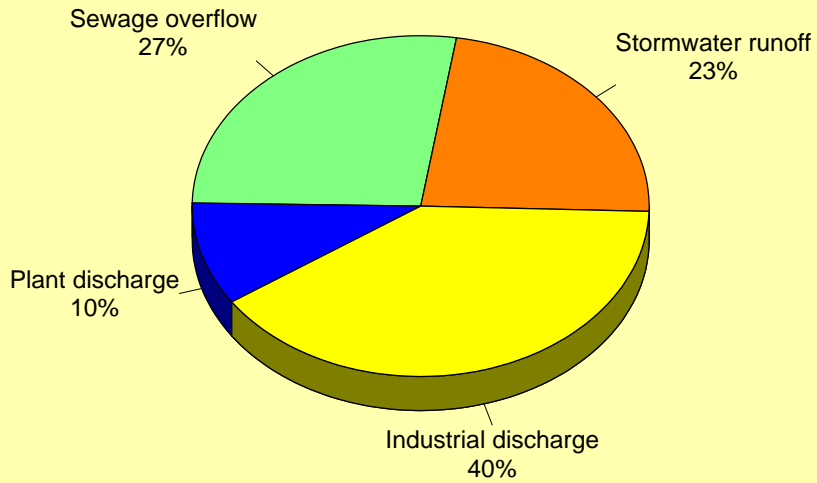
by percentage of respondents



Source: ETC Institute (September 2004 - SEMCOG)

**Q4. Which One of the Following Do You Think Contributes the Most Pollution to Lakes, Rivers and Streams in the Community Where You Live?**

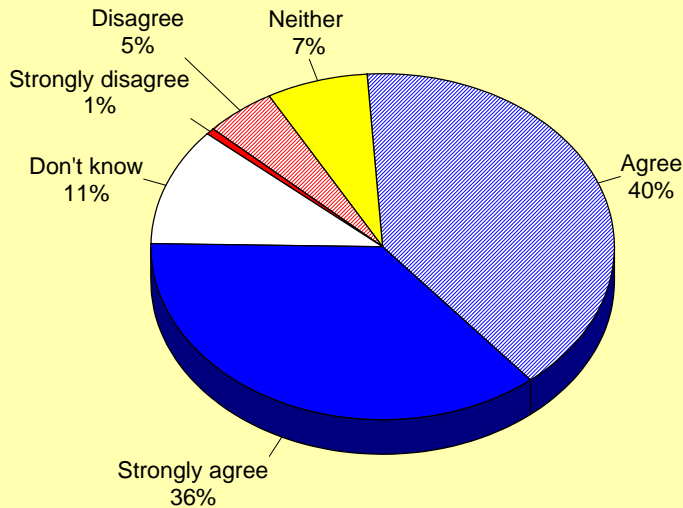
by percentage of respondents



Source: ETC Institute (September 2004 - SEMCOG)

**Q5. Level of Agreement Among Residents with the Statement: "The Quality of Local Streams Where I Live Affects the Great Lakes and Lake St. Clair."**

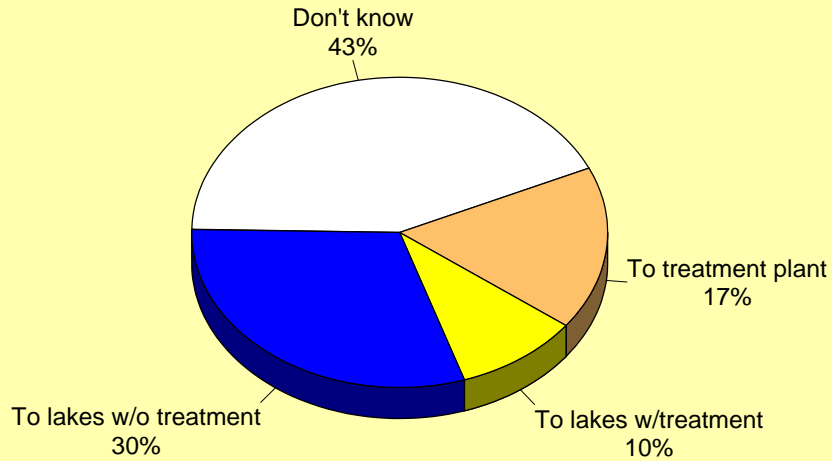
by percentage of respondents



Source: ETC Institute (September 2004 - SEMCOG)

### Q6. Where Residents Think Stormwater Goes After It Enters a Storm Drain or Roadside Ditch in Their Community

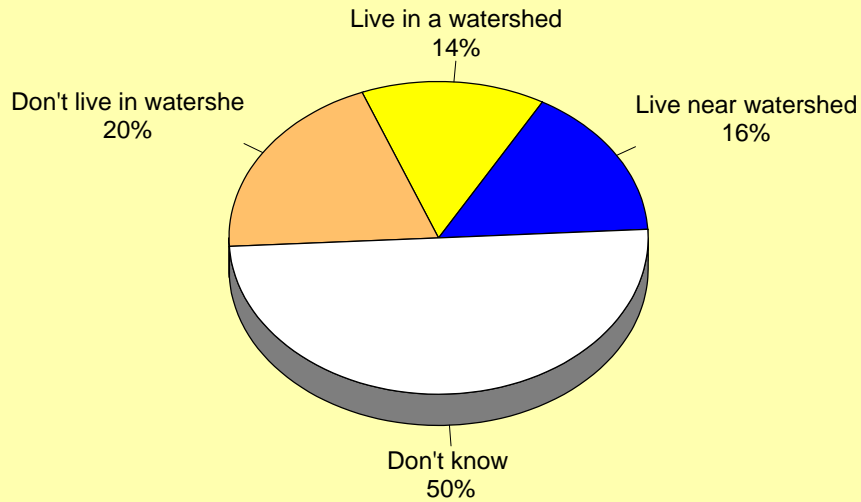
by percentage of respondents



Source: ETC Institute (September 2004 - SEMCOG)

### Q7. Percentage of Residents Who Knew that They Live in a Watershed

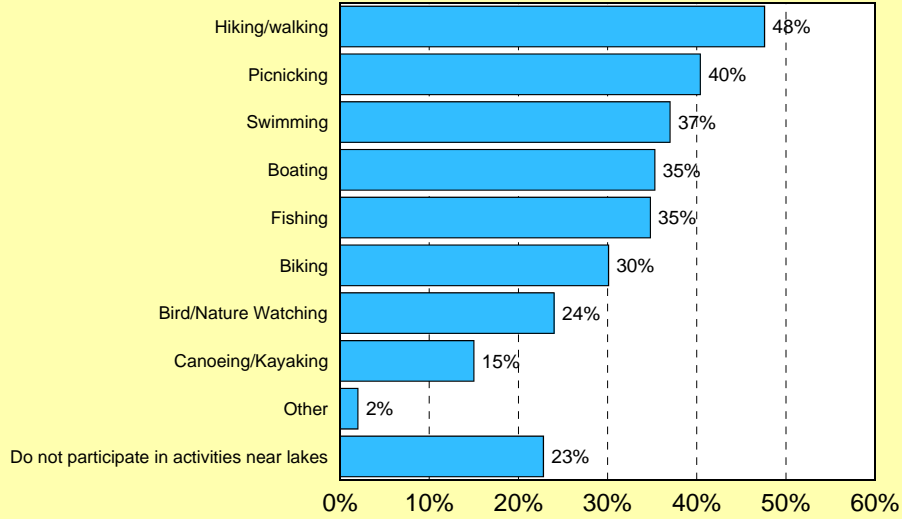
by percentage of respondents



Source: ETC Institute (September 2004 - SEMCOG)

### Q8. Activities that Households Have Participated in near Lakes and Streams in the SEMCOG Region During the Past Year?

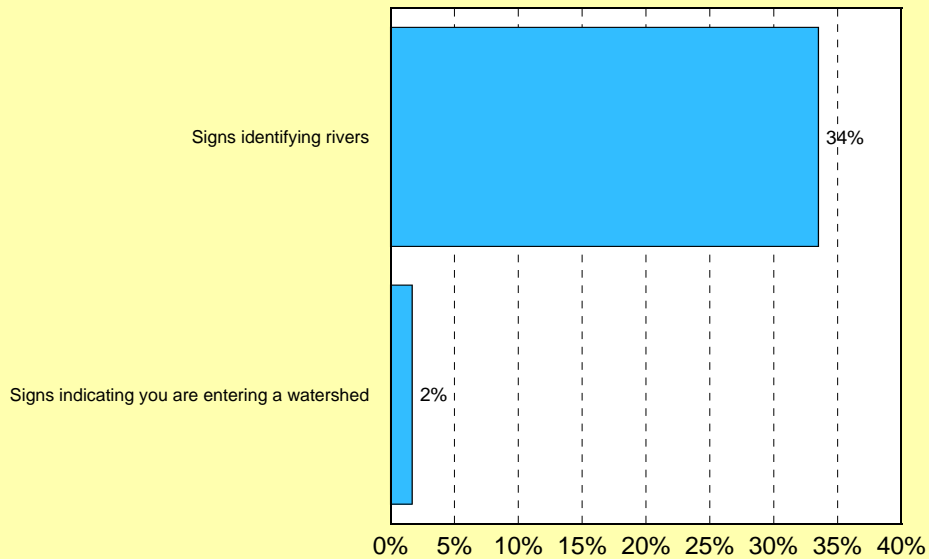
by percentage of respondents (multiple responses allowed)



Source: ETC Institute (September 2004 - SEMCOG)

### Q9. Percentage of Residents Who Have Seen Various Signs in Their Community

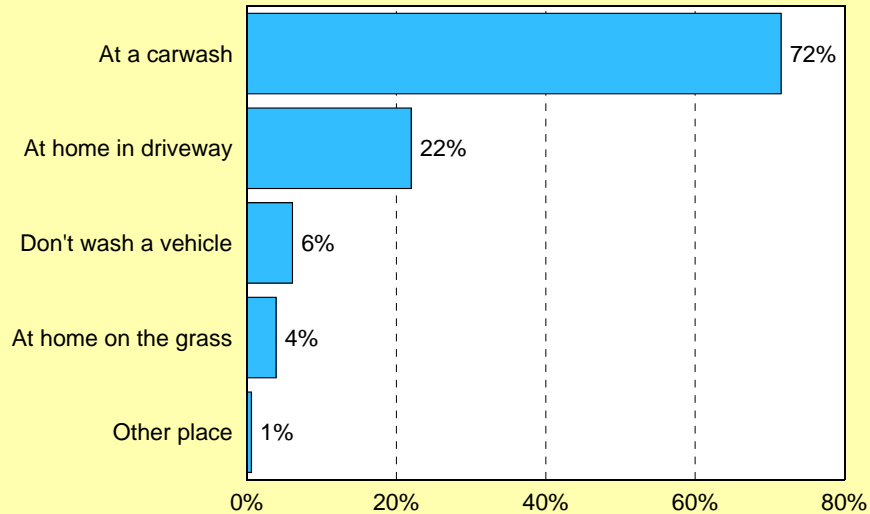
by percentage of respondents



Source: ETC Institute (September 2004 - SEMCOG)

### Q10. Where Households Typically Wash Their Vehicles During the Summer

by percentage of respondents (multiple responses allowed)

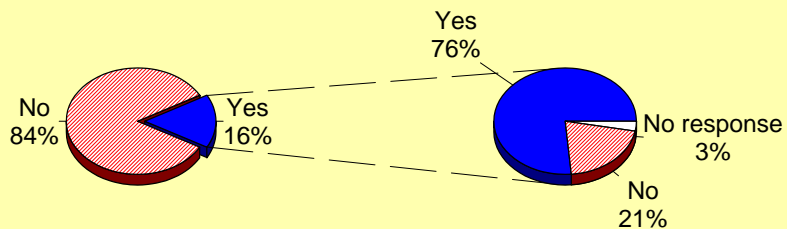


Source: ETC Institute (September 2004 - SEMCOG)

### Q11. Do You Have a Septic System at Your Home?

by percentage of respondents

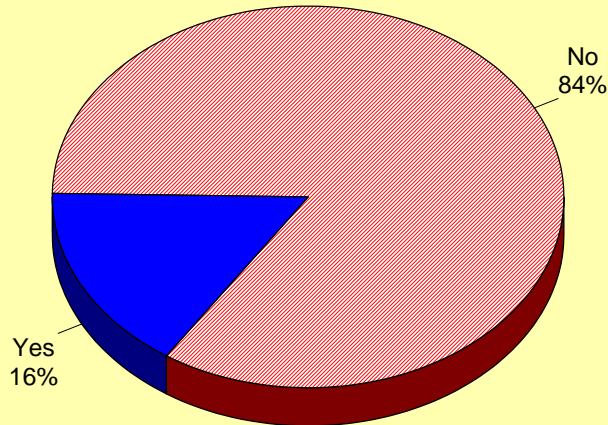
#### Q11a: Has Your Household had Your Septic System Checked or Serviced During the Past 3-5 Years?



Source: ETC Institute (September 2004 - SEMCOG)

**Q12. Do You or Other Members of Your Household Usually Change Motor Oil, Transmission Fluid, or Radiator Fluid for a Vehicle at Your Home?**

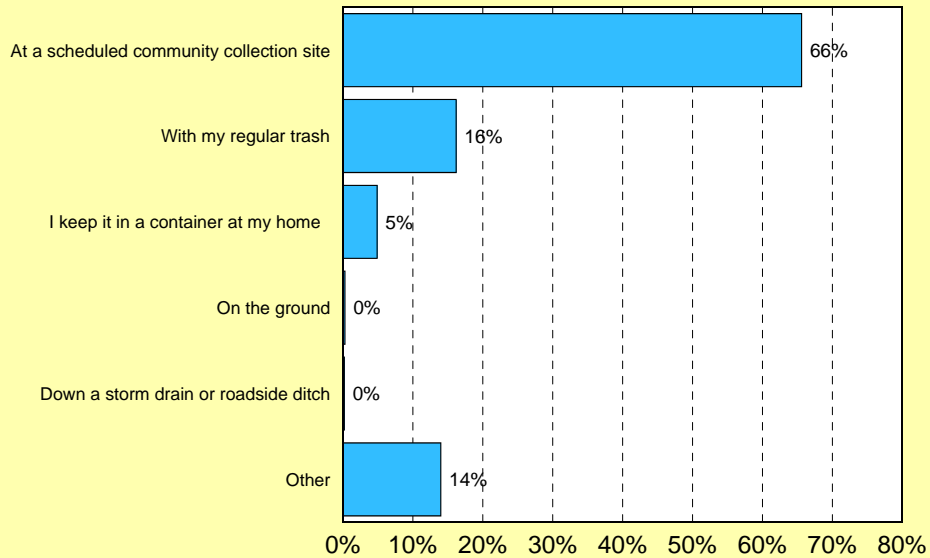
by percentage of respondents



Source: ETC Institute (September 2004 - SEMCOG)

**Q13. Where Does Your Household Typically Dispose of Materials, Such as Old Oil/Fluids from Your Vehicles, Batteries, Pesticides, and other Household Hazardous Wastes?**

by percentage of respondents (multiple responses allowed)

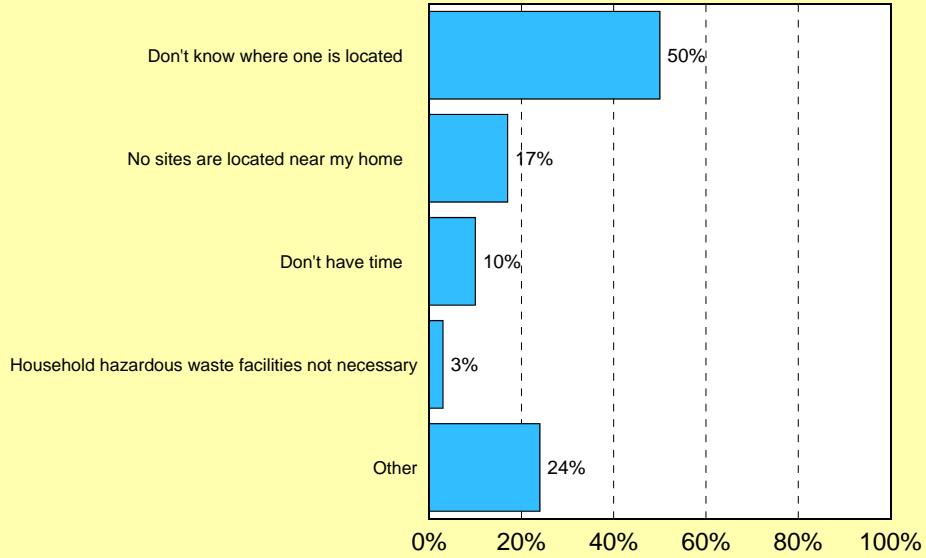


Source: ETC Institute (September 2004 - SEMCOG)



### Q13a. Why Doesn't Your Household Typically Dispose of Your Household Hazardous Waste at a Community Collection Site?

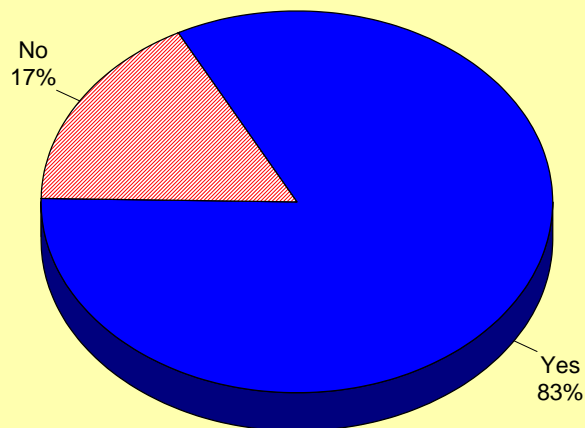
by percentage of respondents who did not use community collection sites  
(multiple responses allowed)



Source: ETC Institute (September 2004 - SEMCOG)

### Q14. Do You or Other Members of Your Household Typically Pick Up Your Dog's Waste When You Go for a Walk?

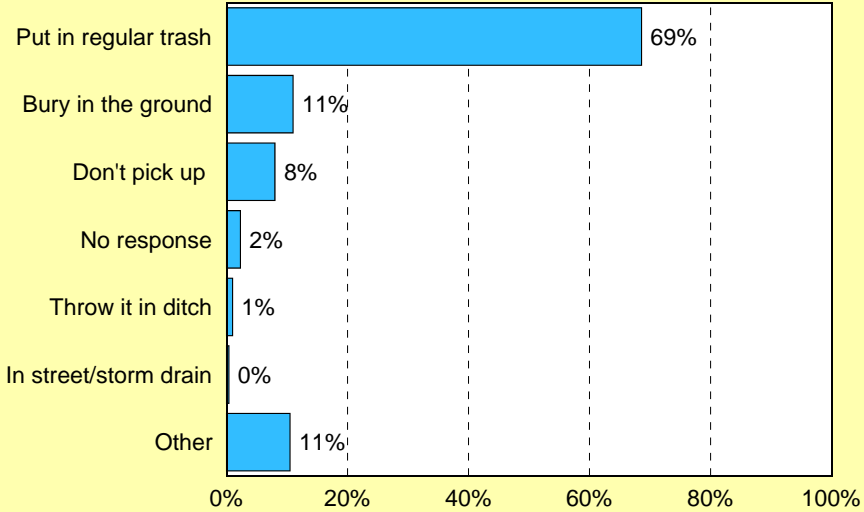
by percentage of respondents who have a dog



Source: ETC Institute (September 2004 - SEMCOG)

### Q14a. How Does Your Household Dispose of Your Dog's Waste?

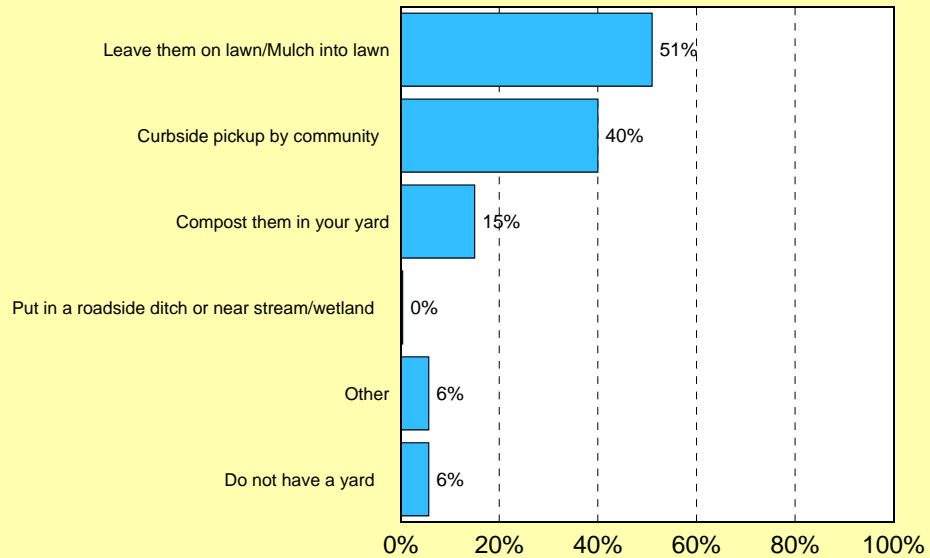
by percentage of respondents who had a dog



Source: ETC Institute (September 2004 - SEMCOG)

### Q15. What Does Your Household Typically Do with Your Grass Clippings and/or Leaves?

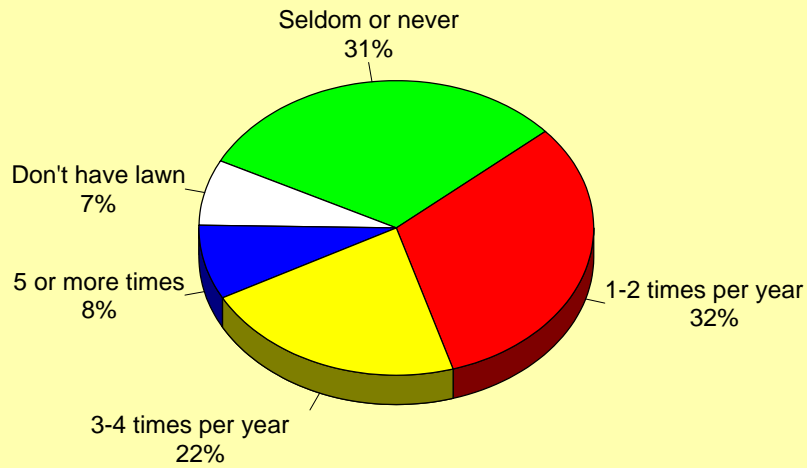
by percentage of respondents (multiple responses allowed)



Source: ETC Institute (September 2004 - SEMCOG)

### Q16. Which of the Following Best Describes How Often Your Household Fertilizes Your Lawn?

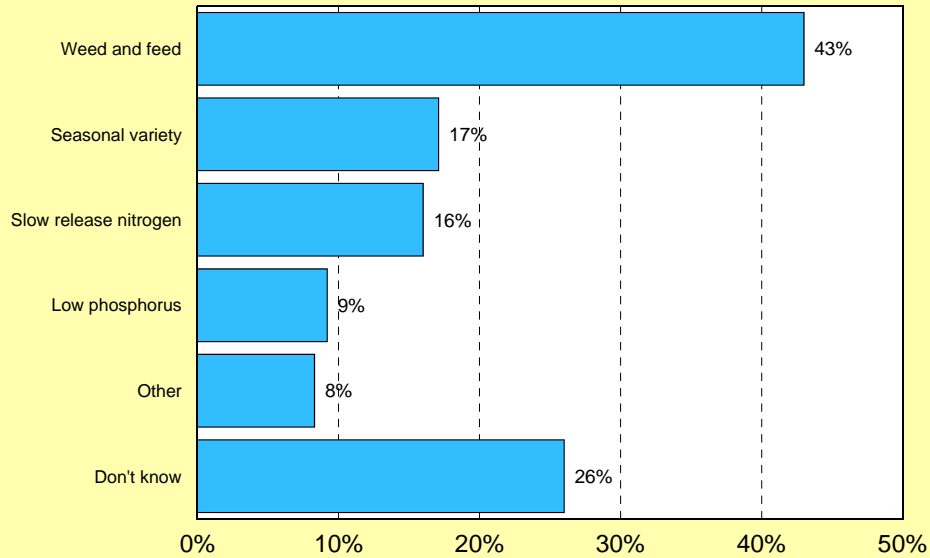
by percentage of respondents



Source: ETC Institute (September 2004 - SEMCOG)

### Q16a. Which Types of Fertilizer Does Your Household Use?

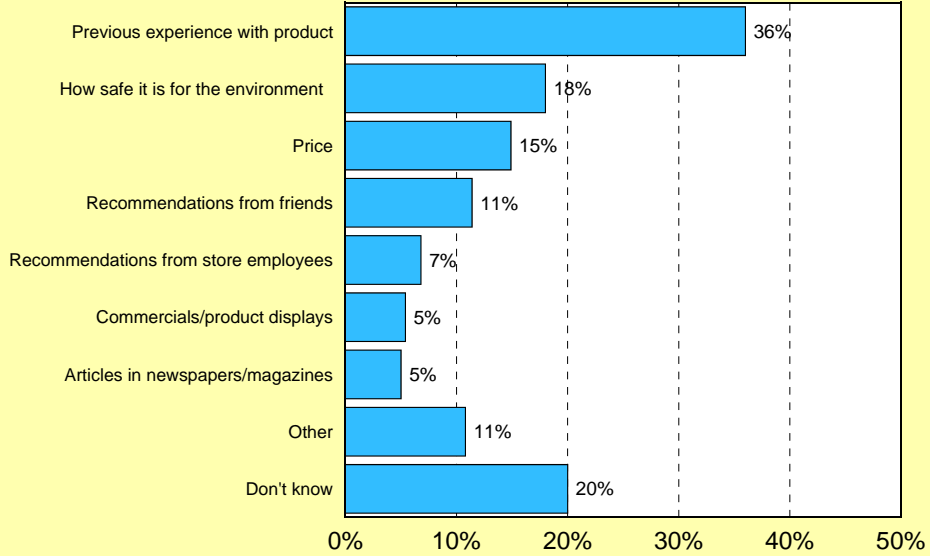
by percentage of respondents who use fertilizer on their lawn (multiple responses allowed)



Source: ETC Institute (September 2004 - SEMCOG)

### Q16b. Reasons that Most Influence the Types of Fertilizers/Pesticides Used by Area Households

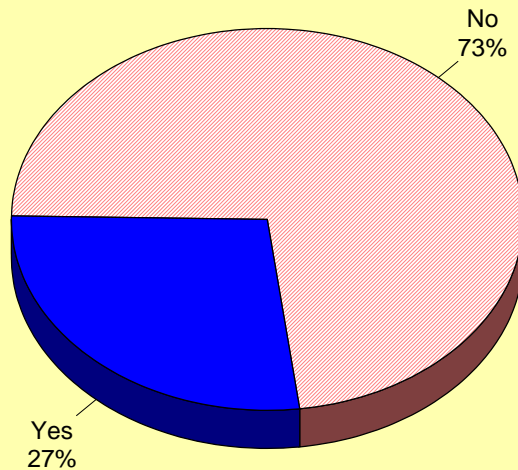
by percentage of respondents who use fertilizer on their lawn (multiple responses allowed)



Source: ETC Institute (September 2004 - SEMCOG)

### Q17. Does Your Household Use a Lawn Service for Fertilizer and/or Pesticide Applications?

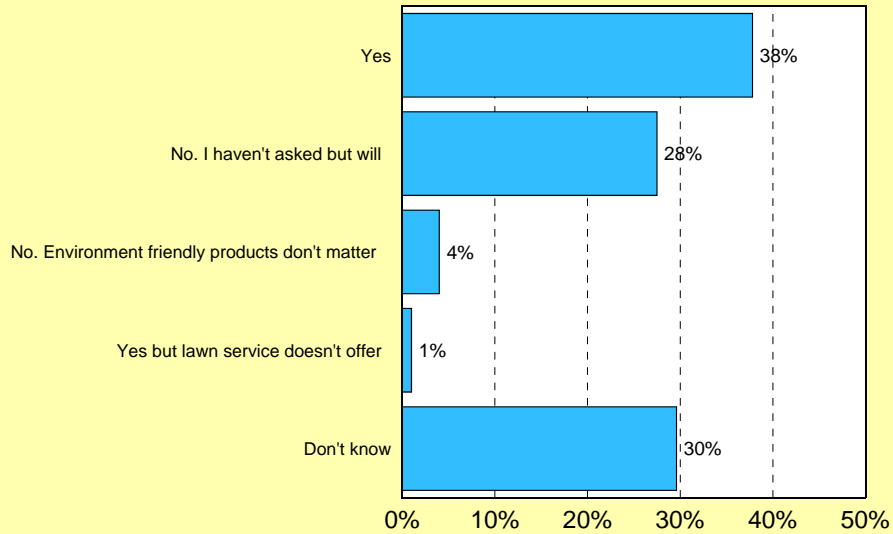
by percentage of respondents



Source: ETC Institute (September 2004 - SEMCOG)

### Q17a. Does Your Household Ask Your Lawn Service to Use Environmentally Friendly/Organic Products and Practices?

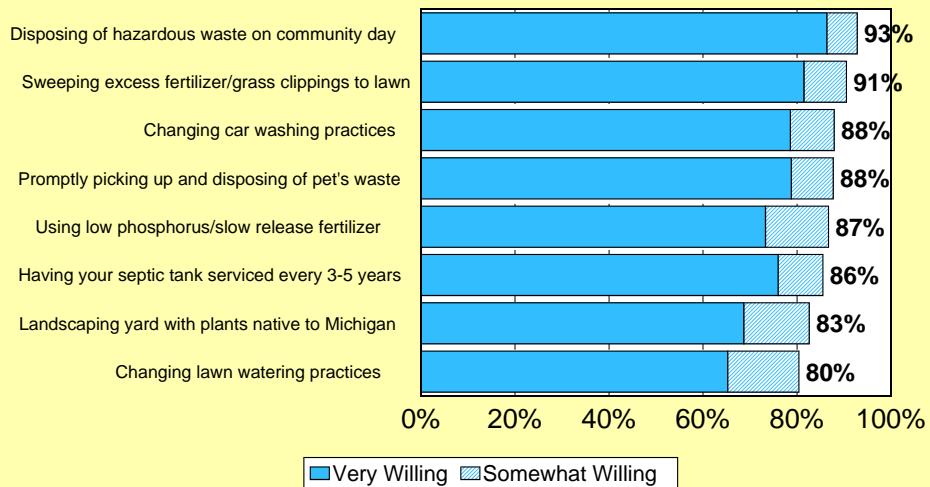
by percentage of respondents who use a lawn service



Source: ETC Institute (September 2004 - SEMCOG)

### Q18. Willingness of Residents to Perform Various Activities to Help Reduce Pollution of Streams and Lakes in Their Community

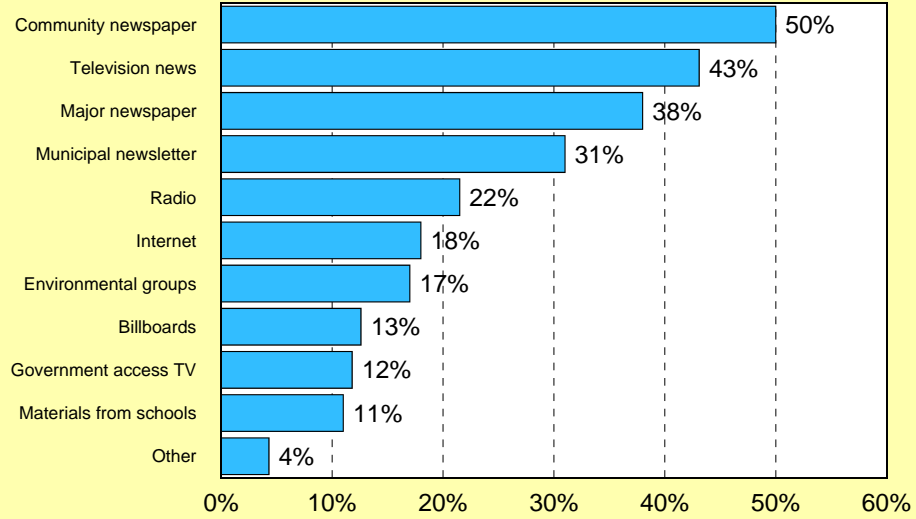
by percentage of respondents (excluding not applicable)



Source: ETC Institute (September 2004 - SEMCOG)

### Q19. Where Residents Would Prefer to Receive Information About What They Can Do to Protect Lakes and Streams

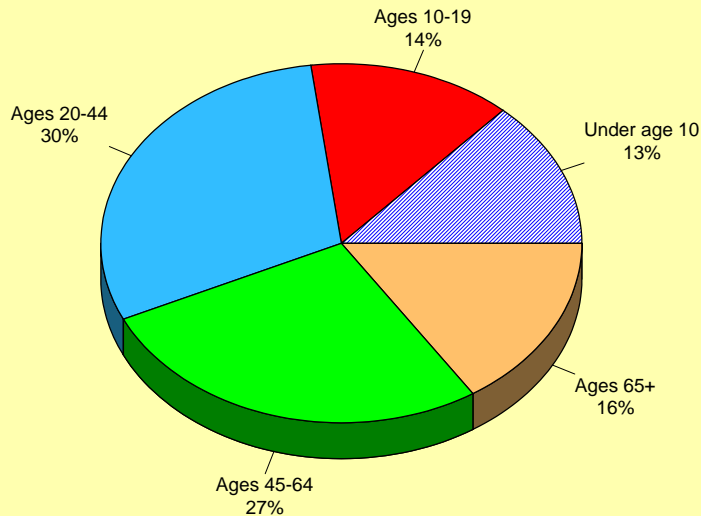
by percentage of respondents (multiple responses allowed)



Source: ETC Institute (September 2004 - SEMCOG)

### Q20. Demographics: Ages of Household Occupants

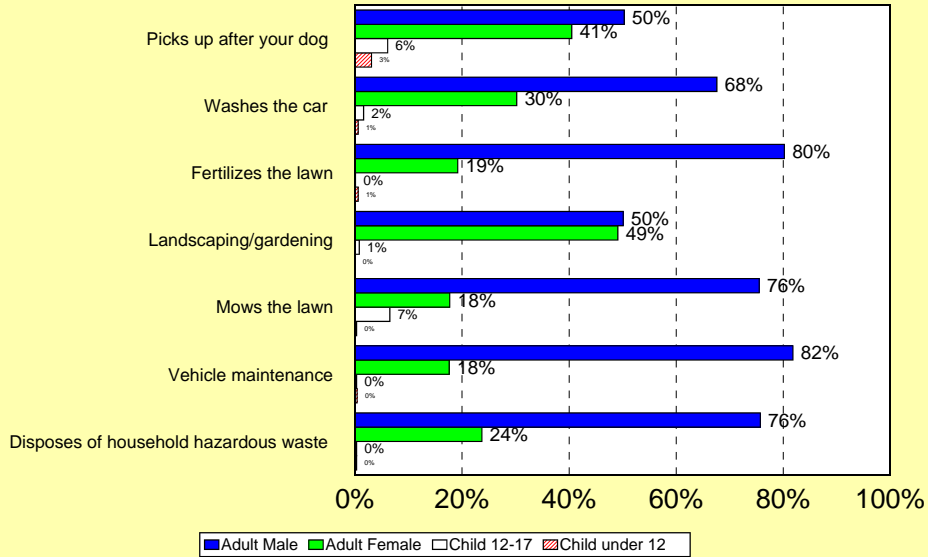
by percentage of respondents



Source: ETC Institute (September 2004 - SEMCOG)

### Q21. The Household Member Who Most Frequently Performs Various Household Activities

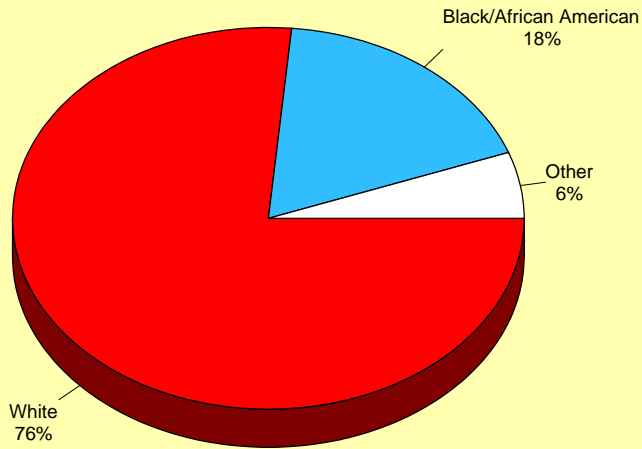
by percentage of respondents



Source: ETC Institute (September 2004 - SEMCOG)

### Q22. Demographics: Race/Ethnicity

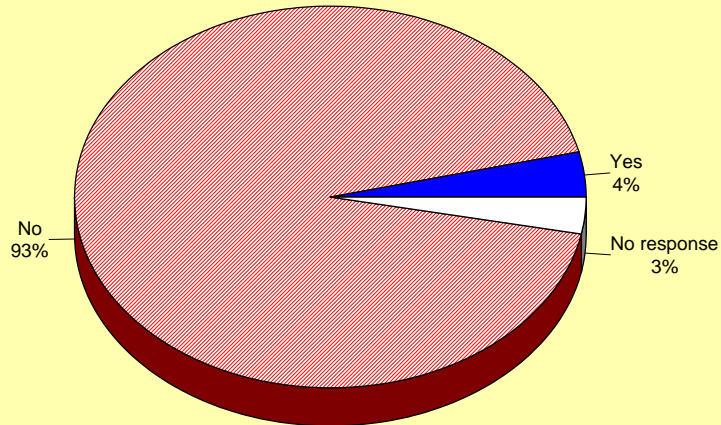
by percentage of respondents



Source: ETC Institute (September 2004 - SEMCOG)

### Q23. Demographics: Is Any Member of the Household of Hispanic, Latino, or other Spanish Ancestry

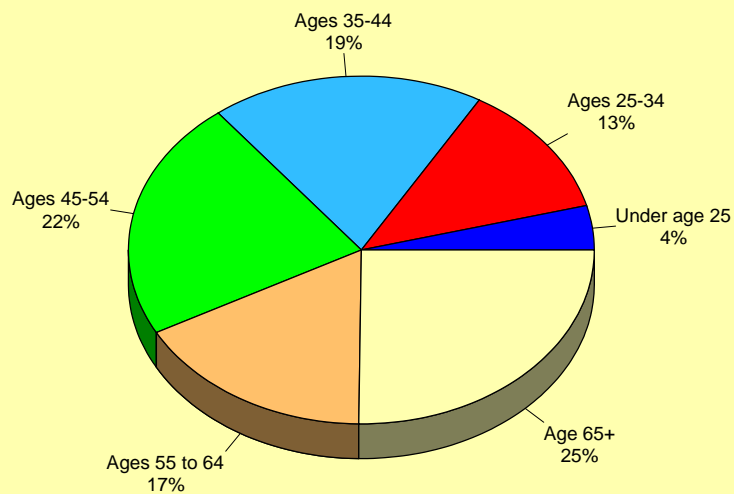
by percentage of respondents



Source: ETC Institute (September 2004 - SEMCOG)

### Q24. Demographics: Age of Respondents

by percentage of respondents

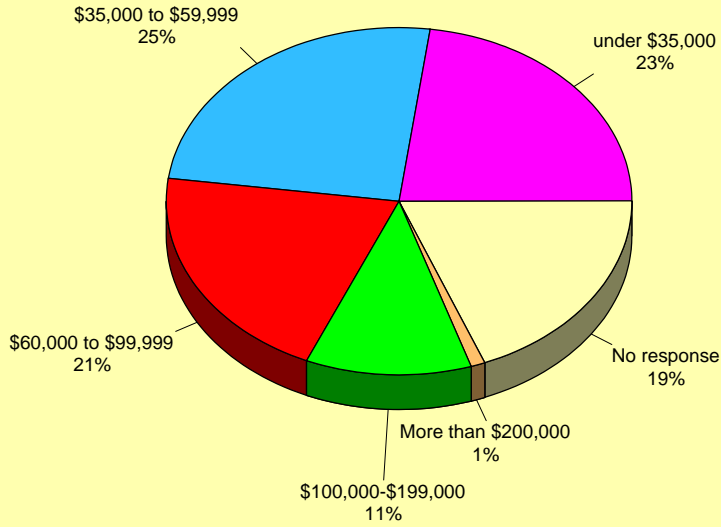


Source: ETC Institute (September 2004 - SEMCOG)



### Q25. Demographics: Household Income

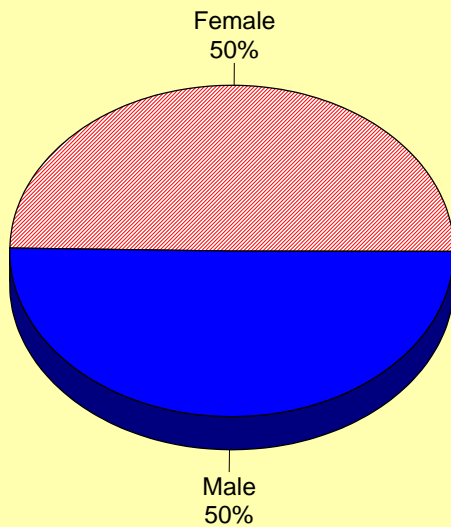
by percentage of respondents



Source: ETC Institute (September 2004 - SEMCOG)

### Q26. Demographics: Gender of the Respondents

by percentage of respondents



Source: ETC Institute (September 2004 - SEMCOG)

Section 3:  
Crosstabs by Watershed in the  
SEMCOG Region

---

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q1. Do you think the quality of water in lakes, rivers, and streams in the community where you live is:

N=3720	Watershed Number																		SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20		
<u>Q1 Quality of water in lakes-rivers</u>																			
1=Getting much worse	11.4%	13.8%	12.7%	10.7%	8.9%	14.0%	9.8%	8.3%	12.5%	6.5%	10.3%	9.5%	6.5%	7.6%	8.8%	13.2%	10.0%	11.4%	
2=Getting somewhat worse	30.4%	29.3%	24.0%	34.5%	28.7%	30.0%	24.4%	25.9%	34.0%	26.4%	26.3%	27.3%	22.5%	22.5%	20.5%	22.5%	17.6%	25.3%	
3=The same	17.3%	22.0%	27.1%	23.3%	27.2%	28.0%	25.9%	29.3%	25.0%	28.4%	27.2%	23.3%	27.5%	29.0%	28.8%	28.4%	26.7%	27.1%	
4=Getting somewhat better	25.7%	21.6%	13.6%	18.4%	16.3%	17.5%	18.0%	18.0%	11.0%	15.9%	15.5%	18.2%	19.0%	16.0%	25.4%	9.3%	21.9%	16.6%	
5=Getting much better	3.4%	0.9%	2.7%	3.4%	2.5%	5.0%	2.0%	2.9%	2.0%	2.5%	1.4%	2.0%	4.0%	1.9%	4.4%	3.9%	3.8%	2.5%	
9=Don't know	11.8%	12.5%	19.9%	9.7%	16.3%	5.5%	20.0%	15.6%	15.5%	20.4%	19.2%	19.8%	20.5%	22.9%	12.2%	22.5%	20.0%	17.0%	

#### Watershed Codes

02=St Clair County  
 03=Anchor Bay  
 04=Red Run  
 05=Clinton River East  
 06=North Branch of Clinton  
 07=Lake St Clair Direct Drainage  
 10=South Branch Shiawassee  
 11=Huron River Chain of Lakes

12=Upper Clinton  
 13=Stony/Paint Creek  
 14=Clinton Main  
 15=Kent Lake  
 16=Rouge Headwaters  
 17=Rouge Oakland  
 18=Rouge Middle  
 19=Rouge Detroit  
 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q1. Do you think the quality of water in lakes, rivers, and streams in the community where you live is: (without don't knows)

N=3720	Watershed Number																	Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q1 Quality of water in lakes-rivers</u>																		
1=Getting much worse	12.9%	15.8%	15.8%	11.8%	10.7%	14.8%	12.2%	9.8%	14.8%	8.1%	12.8%	11.8%	8.2%	9.9%	10.0%	17.1%	12.5%	13.7%
2=Getting somewhat worse	34.4%	33.5%	29.9%	38.2%	34.3%	31.7%	30.5%	30.6%	40.2%	33.1%	32.6%	34.0%	28.3%	29.2%	23.3%	29.1%	22.0%	30.5%
3=The same	19.6%	25.1%	33.9%	25.8%	32.5%	29.6%	32.3%	34.7%	29.6%	35.6%	33.7%	29.1%	34.6%	37.6%	32.8%	36.7%	33.3%	32.7%
4=Getting somewhat better	29.2%	24.6%	16.9%	20.4%	19.5%	18.5%	22.6%	21.4%	13.0%	20.0%	19.2%	22.7%	23.9%	20.8%	28.9%	12.0%	27.4%	20.1%
5=Getting much better	3.8%	1.0%	3.4%	3.8%	3.0%	5.3%	2.4%	3.5%	2.4%	3.1%	1.7%	2.5%	5.0%	2.5%	5.0%	5.1%	4.8%	3.0%

#### Watershed Codes

02=St Clair County  
 03=Anchor Bay  
 04=Red Run  
 05=Clinton River East  
 06=North Branch of Clinton  
 07=Lake St Clair Direct Drainage  
 10=South Branch Shiawassee  
 11=Huron River Chain of Lakes

12=Upper Clinton  
 13=Stony/Paint Creek  
 14=Clinton Main  
 15=Kent Lake  
 16=Rouge Headwaters  
 17=Rouge Oakland  
 18=Rouge Middle  
 19=Rouge Detroit  
 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q2. Do you think the way you care for your lawn and home affects the quality of water in lakes and streams in the community where you live?

N=3720	Watershed Number																SEMCOG Wgt Total	
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19		20
<u>Q2 Way you care for your lawn and home</u>																		
1=Yes	60.3%	64.7%	64.3%	67.5%	65.8%	64.0%	61.5%	69.3%	69.0%	61.7%	67.1%	73.1%	67.5%	66.0%	62.9%	53.4%	56.7%	62.1%
2=No	30.4%	28.0%	24.4%	19.4%	26.7%	22.0%	27.8%	24.4%	26.0%	31.8%	21.1%	19.0%	23.0%	20.2%	28.8%	30.9%	29.5%	27.4%
9=Don't know	9.3%	7.3%	11.3%	13.1%	7.4%	14.0%	10.7%	6.3%	5.0%	6.5%	11.7%	7.9%	9.5%	13.7%	8.3%	15.7%	13.8%	10.5%

#### Watershed Codes

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q2. Do you think the way you care for your lawn and home affects the quality of water in lakes and streams in the community where you live? (excluding don't knows)

N=3720	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q2 Way you care for your lawn and home</u>																		
1=Yes	66.5%	69.8%	72.4%	77.7%	71.1%	74.4%	68.9%	74.0%	72.6%	66.0%	76.1%	79.4%	74.6%	76.5%	68.6%	63.4%	65.7%	69.4%
2=No	33.5%	30.2%	27.6%	22.3%	28.9%	25.6%	31.1%	26.0%	27.4%	34.0%	23.9%	20.6%	25.4%	23.5%	31.4%	36.6%	34.3%	30.6%

#### Watershed Codes

02=St Clair County  
 03=Anchor Bay  
 04=Red Run  
 05=Clinton River East  
 06=North Branch of Clinton  
 07=Lake St Clair Direct Drainage  
 10=South Branch Shiawassee  
 11=Huron River Chain of Lakes  
 12=Upper Clinton  
 13=Stony/Paint Creek  
 14=Clinton Main  
 15=Kent Lake  
 16=Rouge Headwaters  
 17=Rouge Oakland  
 18=Rouge Middle  
 19=Rouge Detroit  
 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q3. In the past 2 years, have you or someone in your household taken action in your home, yard or community to protect our water resources?

N=3720	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q3 Taken action to protect water resources</u>																		
1=Yes	35.0%	39.7%	30.3%	34.0%	31.7%	38.5%	37.1%	47.3%	39.0%	36.3%	25.8%	45.1%	30.5%	30.2%	37.6%	29.4%	27.6%	31.5%
2=No	53.6%	50.4%	57.0%	56.3%	56.4%	51.5%	51.7%	44.9%	50.5%	58.2%	60.1%	45.8%	58.5%	57.3%	54.6%	59.3%	61.0%	58.4%
9=Don't know	11.4%	9.9%	12.7%	9.7%	11.9%	10.0%	11.2%	7.8%	10.5%	5.5%	14.1%	9.1%	11.0%	12.6%	7.8%	11.3%	11.4%	10.1%

#### Watershed Codes

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q3. In the past 2 years, have you or someone in your household taken action in your home, yard or community to protect our water resources? (excluding don't knows)

N=3720	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q3 Taken action to protect water resources</u>																		
1=Yes	39.5%	44.0%	34.7%	37.6%	36.0%	42.8%	41.8%	51.3%	43.6%	38.4%	30.1%	49.6%	34.3%	34.5%	40.7%	33.1%	31.2%	35.0%
2=No	60.5%	56.0%	65.3%	62.4%	64.0%	57.2%	58.2%	48.7%	56.4%	61.6%	69.9%	50.4%	65.7%	65.5%	59.3%	66.9%	68.8%	65.0%

#### **Watershed Codes**

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County



## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q4. Which ONE of the following do you think contributes the MOST pollution to lakes, rivers and streams in the community where you live?

N=3720	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q4 Which contributes most to pollution</u>																		
1=Wastewater treatment plant discharges	13.0%	15.4%	11.6%	11.2%	15.2%	13.8%	9.5%	8.4%	6.8%	6.0%	9.5%	5.0%	9.9%	8.2%	7.8%	11.3%	8.9%	10.1%
2=Factories/industrial discharges	40.3%	44.7%	44.7%	32.1%	29.8%	35.9%	22.1%	27.2%	28.8%	31.1%	26.5%	24.3%	37.0%	32.1%	39.6%	45.7%	50.7%	39.7%
3=Stormwater runoff	19.5%	15.4%	18.1%	25.0%	25.7%	15.9%	43.2%	50.8%	44.0%	38.8%	32.5%	44.8%	34.4%	32.1%	26.0%	11.8%	16.7%	23.4%
4=Sewage overflows	27.3%	24.6%	25.6%	31.6%	29.3%	34.4%	25.3%	13.6%	20.4%	24.0%	31.5%	25.9%	18.8%	27.6%	26.6%	31.2%	23.6%	26.8%

**Watershed Codes**

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q5. Please indicate your level of agreement with the following statement: "The quality of local streams where I live affects the Great Lakes and Lake St. Clair."

	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q5 Quality of streams affect Great Lakes</u>																		
1=Strongly agree	48.9%	54.3%	37.6%	51.9%	40.1%	50.0%	28.3%	31.7%	39.0%	36.8%	32.4%	39.1%	37.0%	34.7%	32.2%	21.1%	38.6%	36.0%
2=Agree	40.1%	35.3%	42.5%	38.3%	47.5%	38.5%	40.5%	41.5%	39.5%	43.8%	39.0%	39.9%	40.0%	40.5%	40.0%	40.7%	39.0%	39.6%
3=Neither	4.2%	2.6%	6.3%	1.9%	3.5%	3.5%	9.3%	9.8%	8.5%	4.5%	8.0%	5.9%	6.5%	5.0%	6.8%	8.3%	5.2%	6.7%
4=Disagree	1.3%	3.4%	2.7%	1.0%	3.0%	2.5%	7.3%	7.8%	3.0%	4.5%	6.1%	3.6%	5.5%	4.2%	5.9%	8.3%	2.4%	5.6%
5=Strongly disagree	0.4%	0.4%	0.9%	0.0%	0.0%	0.0%	1.0%	0.5%	1.5%	1.0%	0.9%	0.4%	1.5%	1.1%	0.5%	1.0%	0.5%	0.6%
9=Don't know	5.1%	3.9%	10.0%	6.8%	5.9%	5.5%	13.7%	8.8%	8.5%	9.5%	13.6%	11.1%	9.5%	14.5%	14.6%	20.6%	14.3%	11.6%

#### Watershed Codes

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q5. Please indicate your level of agreement with the following statement: "The quality of local streams where I live affects the Great Lakes and Lake St. Clair." (excluding don't knows)

	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q5 Quality of streams affect Great Lakes</u>																		
1=Strongly agree	51.6%	56.5%	41.7%	55.7%	42.6%	52.9%	32.8%	34.8%	42.6%	40.7%	37.5%	44.0%	40.9%	40.6%	37.7%	26.5%	45.0%	40.7%
2=Agree	42.2%	36.8%	47.2%	41.1%	50.5%	40.7%	46.9%	45.5%	43.2%	48.4%	45.1%	44.9%	44.2%	47.3%	46.9%	51.2%	45.6%	44.8%
3=Neither	4.4%	2.7%	7.0%	2.1%	3.7%	3.7%	10.7%	10.7%	9.3%	4.9%	9.2%	6.7%	7.2%	5.8%	8.0%	10.5%	6.1%	7.5%
4=Disagree	1.3%	3.6%	3.0%	1.0%	3.2%	2.6%	8.5%	8.6%	3.3%	4.9%	7.1%	4.0%	6.1%	4.9%	6.9%	10.5%	2.8%	6.4%
5=Strongly disagree	0.4%	0.4%	1.0%	0.0%	0.0%	0.0%	1.1%	0.5%	1.6%	1.1%	1.1%	0.4%	1.7%	1.3%	0.6%	1.2%	0.6%	0.6%

#### Watershed Codes

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q6. Where does stormwater (rain water) go after it enters a storm drain or roadside ditch in your community?

N=3720	Watershed Number																	SEMCOG Wgt Total	
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20		
Q6 Where does stormwater-rain water go																			
1=Directly to lakes & streams without treatment	47.3%	44.8%	22.6%	37.9%	45.5%	33.5%	45.9%	52.7%	42.0%	46.5%	28.2%	48.2%	34.0%	27.9%	22.4%	16.7%	28.6%	30.5%	
2=To lakes & streams after treatment	9.7%	6.0%	15.4%	9.2%	5.0%	16.5%	5.9%	5.9%	6.0%	5.1%	7.0%	6.3%	7.5%	8.8%	12.7%	10.8%	8.6%	10.1%	
3=To a wastewater treatment plant	17.3%	12.1%	16.7%	7.3%	10.9%	12.0%	10.7%	5.4%	8.0%	8.6%	16.4%	9.1%	15.5%	11.8%	22.4%	22.1%	18.1%	16.9%	
9=Don't know	25.7%	37.1%	45.2%	45.6%	38.6%	38.0%	37.6%	36.1%	44.0%	39.9%	48.4%	36.4%	43.0%	51.5%	42.4%	50.5%	44.8%	42.6%	

#### Watershed Codes

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q7. Which ONE of the following BEST describes the location where you live?

N=3720	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q7 Location where you live</u>																		
1=Near a watershed	21.1%	23.7%	10.4%	19.9%	18.3%	23.0%	18.0%	29.3%	19.0%	25.9%	18.8%	20.6%	22.0%	17.2%	22.0%	7.4%	12.9%	16.2%
2=In a watershed	26.2%	19.0%	8.6%	12.1%	15.3%	11.0%	24.9%	24.9%	24.0%	14.4%	17.4%	31.6%	20.5%	18.3%	9.3%	3.4%	14.8%	14.5%
3=Don't live in a watershed	9.3%	11.6%	28.5%	15.5%	14.9%	10.5%	13.2%	9.3%	14.5%	18.4%	18.3%	11.1%	18.5%	17.6%	19.0%	28.4%	15.2%	19.8%
9=Don't know/not familiar	43.5%	45.7%	52.5%	52.4%	51.5%	55.5%	43.9%	36.6%	42.5%	41.3%	45.5%	36.8%	39.0%	46.9%	49.8%	60.8%	57.1%	49.6%

#### Watershed Codes

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q8. Which activities have you or other members of your household participated in or near lakes and streams in this area during the past year?

N=3720	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q8 Participated in or near lakes-streams</u>																		
1=Fishing	45.6%	53.9%	31.7%	38.8%	41.6%	32.0%	46.3%	48.8%	47.5%	37.8%	31.9%	47.4%	30.0%	23.7%	31.7%	27.5%	38.6%	34.7%
2=Boating	43.9%	55.2%	32.6%	40.8%	40.6%	41.0%	46.3%	52.7%	51.5%	46.8%	33.8%	55.3%	31.5%	32.8%	36.6%	15.7%	41.0%	35.1%
3=Canoeing/kayaking	12.7%	16.4%	13.1%	14.1%	17.8%	16.0%	20.0%	26.8%	20.5%	19.4%	10.3%	30.0%	13.0%	14.9%	12.2%	5.9%	13.3%	14.7%
A=Bird/nature watching	27.8%	25.4%	23.5%	26.2%	28.7%	20.0%	31.2%	38.5%	34.0%	31.8%	22.5%	39.9%	28.0%	25.6%	25.4%	9.3%	26.2%	24.3%
4=Picnicking	35.0%	41.8%	37.1%	44.2%	38.6%	41.0%	34.6%	41.5%	33.0%	40.3%	32.4%	38.7%	48.0%	31.3%	42.0%	37.3%	39.5%	40.0%
5=Biking	35.4%	36.6%	25.3%	30.1%	27.2%	30.5%	23.4%	30.2%	33.0%	38.3%	27.7%	36.0%	34.0%	21.8%	30.2%	17.2%	30.5%	29.7%
6=Swimming	50.6%	55.6%	35.7%	35.4%	40.1%	40.5%	50.2%	53.2%	47.0%	45.8%	39.4%	54.5%	38.0%	32.8%	35.1%	23.5%	37.6%	36.8%
7=Hiking/walking	51.9%	44.8%	46.6%	46.6%	51.5%	46.0%	49.8%	54.6%	54.5%	53.7%	45.1%	53.8%	53.0%	48.5%	50.7%	32.4%	43.3%	47.8%
8=Other	6.3%	6.5%	2.7%	2.9%	2.5%	3.0%	3.9%	2.9%	2.0%	3.5%	3.3%	4.3%	2.5%	1.5%	2.4%	1.5%	2.4%	2.1%
0=Don't participate in activities near lakes/streams	19.8%	10.8%	24.9%	18.9%	19.3%	21.5%	15.1%	16.1%	17.0%	18.4%	23.9%	13.4%	17.0%	27.1%	23.4%	38.2%	24.3%	23.3%

**Watershed Codes**

02=St Clair County  
 03=Anchor Bay  
 04=Red Run  
 05=Clinton River East  
 06=North Branch of Clinton

07=Lake St Clair Direct Drainage  
 10=South Branch Shiawassee  
 11=Huron River Chain of Lakes  
 12=Upper Clinton  
 13=Stony/Paint Creek  
 14=Clinton Main

15=Kent Lake  
 16=Rouge Headwaters  
 17=Rouge Oakland  
 18=Rouge Middle  
 19=Rouge Detroit  
 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q9. Which of the following road signs have you seen in your community?

N=3720	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q9 Which road signs seen in community</u>																		
1=Signs identifying rivers	38.4%	31.7%	29.1%	42.2%	29.4%	30.5%	35.1%	45.9%	40.5%	35.9%	37.0%	52.6%	46.7%	55.6%	35.3%	17.2%	22.9%	33.9%
2=Signs indicating entering a watershed	1.3%	1.3%	0.9%	0.5%	2.5%	1.0%	6.8%	2.0%	2.5%	1.5%	3.4%	6.8%	3.5%	4.6%	2.9%	1.0%	0.0%	1.8%
3=Neither of these signs in my community	60.3%	67.0%	70.0%	57.4%	68.2%	68.5%	58.0%	52.2%	57.0%	62.6%	59.6%	40.6%	49.7%	39.8%	61.8%	81.9%	77.1%	64.3%

#### Watershed Codes

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q10. Where does your household typically wash your vehicle(s) during the summer?

N=3720	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q10 Where typically wash your vehicle</u>																		
1=Home in the driveway	24.1%	26.3%	22.6%	32.0%	21.8%	32.5%	20.0%	23.9%	24.5%	27.9%	19.7%	20.2%	21.0%	16.4%	28.3%	20.1%	30.0%	22.4%
2=Home in the grass	8.4%	7.3%	3.6%	4.4%	4.0%	2.0%	11.7%	7.8%	3.5%	3.0%	2.8%	4.3%	3.0%	2.3%	2.9%	4.4%	6.7%	3.9%
3=Carwash	73.0%	66.4%	71.5%	69.4%	75.2%	65.5%	72.2%	70.7%	74.0%	72.1%	78.4%	83.8%	76.5%	80.9%	71.7%	72.1%	67.1%	71.7%
4=Other	1.3%	1.3%	0.5%	0.5%	1.5%	0.0%	2.0%	0.0%	0.0%	0.5%	0.0%	0.8%	0.5%	1.1%	1.5%	0.5%	1.0%	0.6%
5=Don't wash a vehicle	3.0%	3.4%	6.3%	2.4%	3.5%	6.0%	3.4%	2.9%	4.0%	2.5%	5.6%	2.0%	4.0%	3.4%	2.4%	6.9%	1.4%	6.3%

#### Watershed Codes

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County



## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q11. Do you have a septic system at your home?

N=3720	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q11 Do you have a septic tank at home</u>																		
1=Yes	36.3%	23.4%	9.1%	20.4%	63.2%	4.5%	46.8%	59.0%	28.0%	36.8%	9.9%	59.5%	15.0%	8.5%	4.9%	3.4%	7.2%	16.1%
2=No	63.7%	76.6%	90.9%	79.6%	36.8%	95.5%	53.2%	41.0%	72.0%	63.2%	90.1%	40.5%	85.0%	91.5%	95.1%	96.6%	92.8%	83.9%

#### Watershed Codes

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q11a. [if yes to Q11] Has your household had your septic system checked or serviced during the past 3-5 years?

N=597	Watershed Number																		SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20		
<u>Q11a Have septic system check past 5 yrs</u>																			
1=Yes	72.1%	75.9%	60.0%	88.1%	85.0%	55.6%	77.1%	84.3%	73.2%	73.0%	71.4%	88.0%	83.3%	81.8%	70.0%	57.1%	93.3%		75.9%
2=No	25.6%	24.1%	30.0%	9.5%	14.2%	44.4%	22.9%	14.0%	26.8%	23.0%	23.8%	12.0%	13.3%	13.6%	20.0%	28.6%	6.7%		21.4%
9=No response	2.3%	0.0%	10.0%	2.4%	0.8%	0.0%	0.0%	1.7%	0.0%	4.1%	4.8%	0.0%	3.3%	4.5%	10.0%	14.3%	0.0%		2.7%

#### Watershed Codes

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q12. Do you or other members of your household usually change motor oil, transmission fluid, or radiator fluid for a vehicle at your home?

N=3720	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q12 Usually change motor oil etc at home</u>																		
1=Yes	23.6%	21.6%	13.1%	20.4%	25.4%	19.0%	21.5%	19.6%	19.0%	11.9%	10.8%	18.6%	11.0%	6.9%	21.5%	11.4%	20.7%	15.6%
2=No	76.4%	78.4%	86.9%	79.6%	74.6%	81.0%	78.5%	80.4%	81.0%	88.1%	89.2%	81.4%	89.0%	93.1%	78.5%	88.6%	79.3%	84.4%

#### Watershed Codes

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q13. Where does your household typically dispose of materials, such as old oil/fluids from your vehicle, batteries, pesticides, and other household hazardous wastes?

N=3720	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q13 Where typically dispose of materials</u>																		
1=On the ground	0.4%	2.2%	0.0%	0.0%	1.0%	1.5%	0.5%	0.0%	1.5%	0.0%	0.0%	0.8%	0.0%	0.4%	1.0%	0.5%	0.0%	0.3%
2=With my regular trash	19.4%	17.2%	14.5%	14.6%	13.4%	13.0%	18.0%	19.0%	16.0%	19.9%	17.4%	15.0%	15.5%	16.0%	12.7%	25.0%	18.1%	16.2%
3=Community collection site	58.2%	63.8%	67.0%	68.0%	62.4%	74.5%	62.9%	69.3%	72.0%	64.7%	55.9%	70.8%	69.0%	70.6%	74.6%	44.6%	65.7%	65.8%
4=Keep in a container at home	7.6%	5.6%	5.0%	5.8%	8.4%	6.0%	10.7%	4.9%	4.5%	8.5%	10.3%	7.9%	3.0%	4.6%	3.4%	4.4%	4.8%	4.9%
5=Down a storm drain/ditch	0.4%	0.0%	0.0%	0.0%	0.5%	0.5%	0.0%	0.5%	0.0%	0.0%	0.5%	0.0%	0.0%	0.4%	0.0%	0.5%	0.5%	0.2%
6=Other	18.1%	16.8%	13.1%	14.6%	19.3%	6.5%	15.6%	11.2%	10.0%	11.9%	16.4%	8.3%	12.0%	11.5%	10.7%	19.1%	10.5%	13.5%
9=No response	0.8%	2.2%	3.2%	1.9%	0.5%	1.5%	1.5%	0.5%	1.0%	2.5%	3.3%	2.4%	2.0%	3.1%	1.5%	7.8%	3.8%	2.5%

#### Watershed Codes

02=St Clair County	12=Upper Clinton
03=Anchor Bay	13=Stony/Paint Creek
04=Red Run	14=Clinton Main
05=Clinton River East	15=Kent Lake
06=North Branch of Clinton	16=Rouge Headwaters
07=Lake St Clair Direct Drainage	17=Rouge Oakland
10=South Branch Shiawassee	18=Rouge Middle
11=Huron River Chain of Lakes	19=Rouge Detroit
	20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q13a. [if location other than scheduled community collection site or facility] Why doesn't your household typically dispose of your household hazardous waste at a community collection site? [excludes no responses]

N=966	Watershed Number																		SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20		
<u>Q13a Why do you not dispose hazardous</u>																			
1=Don't know where located	55.4%	51.4%	44.9%	42.3%	46.6%	53.3%	50.9%	47.4%	51.0%	50.0%	52.2%	64.6%	44.4%	37.9%	36.6%	51.4%	50.9%	50.2%	
2=Don't have time	4.8%	7.1%	12.2%	5.8%	3.4%	13.3%	10.5%	14.0%	6.1%	15.6%	5.8%	10.8%	22.2%	13.6%	7.3%	9.7%	8.8%	9.8%	
3=No sites near my home	22.9%	18.6%	16.3%	21.2%	32.8%	13.3%	24.6%	15.8%	12.2%	15.6%	14.5%	9.2%	11.1%	10.6%	14.6%	20.8%	21.1%	17.3%	
4=Don't think are necessary	2.4%	1.4%	4.1%	1.9%	0.0%	2.2%	1.8%	5.3%	2.0%	3.1%	4.3%	3.1%	0.0%	6.1%	4.9%	5.6%	3.5%	3.2%	
5=Other	18.1%	24.3%	26.5%	30.8%	22.4%	22.2%	17.5%	21.1%	30.6%	23.4%	26.1%	16.9%	28.9%	39.4%	39.0%	15.3%	19.3%	23.7%	

#### Watershed Codes

02=St Clair County  
 03=Anchor Bay  
 04=Red Run  
 05=Clinton River East  
 06=North Branch of Clinton  
 07=Lake St Clair Direct Drainage  
 10=South Branch Shiawassee  
 11=Huron River Chain of Lakes

12=Upper Clinton  
 13=Stony/Paint Creek  
 14=Clinton Main  
 15=Kent Lake  
 16=Rouge Headwaters  
 17=Rouge Oakland  
 18=Rouge Middle  
 19=Rouge Detroit  
 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q14. Do you or other members of your household typically pick up your dog's waste when you go for a walk?

N=3720	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q14 Do you pick up dog waste when walking dog</u>																		
1=Yes	29.7%	38.8%	35.0%	35.4%	34.8%	40.0%	32.7%	26.8%	31.0%	37.8%	26.3%	36.8%	36.7%	26.0%	27.8%	20.7%	33.8%	29.9%
2=No	8.9%	5.2%	2.3%	2.9%	13.9%	7.0%	12.2%	10.7%	5.0%	7.5%	4.8%	8.3%	2.0%	2.7%	6.3%	4.9%	8.6%	5.8%
3=No don't have dog	61.4%	56.0%	62.7%	61.7%	51.2%	53.0%	55.1%	62.4%	64.0%	54.7%	68.9%	54.9%	61.3%	71.4%	65.9%	74.4%	57.6%	64.3%

#### Watershed Codes

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q14a. [if a dog] How does your household typically dispose of your dog's waste?

N=1325	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q14a How do you dispose of dog waste</u>																		
1=Throw in ditch	2.2%	0.0%	0.0%	1.3%	3.1%	2.1%	3.3%	5.2%	0.0%	1.1%	0.0%	1.8%	1.3%	4.0%	0.0%	0.0%	0.0%	1.1%
2=Dispose with regular trash	50.5%	75.5%	79.3%	74.7%	49.0%	72.3%	56.5%	46.8%	79.2%	54.9%	67.7%	64.0%	70.1%	70.7%	65.7%	76.9%	65.2%	69.1%
3=Bury in ground	14.3%	6.9%	12.2%	8.9%	17.3%	8.5%	10.9%	16.9%	12.5%	12.1%	10.8%	15.8%	10.4%	9.3%	17.1%	11.5%	12.4%	11.1%
4=Put in street or down storm drain	0.0%	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4%	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	1.1%	0.4%
5=Do not pick up dog waste	17.6%	7.8%	0.0%	2.5%	15.3%	4.3%	19.6%	19.5%	8.3%	16.5%	6.2%	9.6%	3.9%	8.0%	7.1%	5.8%	9.0%	7.8%
6=Other	15.4%	9.8%	7.3%	10.1%	15.3%	10.6%	13.0%	11.7%	1.4%	14.3%	10.8%	10.5%	10.4%	8.0%	8.6%	11.5%	10.1%	10.6%
9=No response	3.3%	2.0%	1.2%	3.8%	1.0%	4.3%	1.1%	1.3%	1.4%	5.5%	6.2%	2.6%	2.6%	4.0%	4.3%	0.0%	3.4%	2.1%

#### Watershed Codes

02=St Clair County  
 03=Anchor Bay  
 04=Red Run  
 05=Clinton River East  
 06=North Branch of Clinton  
 07=Lake St Clair Direct Drainage  
 10=South Branch Shiawassee  
 11=Huron River Chain of Lakes  
 12=Upper Clinton

13=Stony/Paint Creek  
 14=Clinton Main  
 15=Kent Lake  
 16=Rouge Headwaters  
 17=Rouge Oakland  
 18=Rouge Middle  
 19=Rouge Detroit  
 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q15. What does your household typically do with your grass clippings and/or leaves?

N=3720	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q15 What do you do with grass clippings</u>																		
1=Leave on the lawn/ mulch	59.1%	62.1%	49.8%	52.4%	65.8%	38.5%	66.3%	72.7%	68.5%	65.2%	52.6%	68.4%	58.5%	61.5%	52.2%	32.4%	45.2%	51.4%
2=Compost them in yard	20.3%	19.0%	17.2%	13.1%	22.3%	12.0%	22.4%	21.5%	17.0%	21.9%	9.4%	18.6%	12.0%	11.5%	14.1%	11.8%	18.6%	15.3%
3=Put in roadside ditch	1.7%	0.0%	0.0%	0.5%	0.5%	0.0%	1.0%	0.5%	0.5%	0.0%	0.5%	0.4%	0.0%	0.4%	0.5%	1.5%	0.0%	0.5%
4=Curbside pickup	29.5%	26.3%	47.5%	43.2%	18.3%	55.0%	16.1%	8.3%	28.0%	24.9%	37.6%	35.6%	34.5%	29.0%	58.0%	51.5%	41.4%	39.8%
5=Other	10.1%	9.1%	4.5%	4.4%	5.0%	9.5%	6.3%	11.7%	5.5%	4.5%	5.2%	4.7%	7.5%	9.2%	2.9%	8.8%	7.6%	5.5%
6=Do not have a yard	3.0%	1.7%	3.6%	7.8%	6.4%	3.5%	5.4%	3.4%	4.5%	3.0%	9.9%	2.8%	7.0%	9.2%	2.0%	6.9%	3.8%	6.2%

#### Watershed Codes

02=St Clair County  
 03=Anchor Bay  
 04=Red Run  
 05=Clinton River East  
 06=North Branch of Clinton  
 07=Lake St Clair Direct Drainage  
 10=South Branch Shiawassee  
 11=Huron River Chain of Lakes  
 12=Upper Clinton

13=Stony/Paint Creek  
 14=Clinton Main  
 15=Kent Lake  
 16=Rouge Headwaters  
 17=Rouge Oakland  
 18=Rouge Middle  
 19=Rouge Detroit  
 20=Downriver Wayne County



## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q16. Which of the following BEST describes how often your household fertilizes your lawn?

N=3720	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q16 How often do you fertilize your lawn</u>																		
1=5 or more times	3.4%	6.9%	8.7%	14.6%	4.0%	6.5%	3.9%	5.9%	4.6%	10.1%	6.2%	7.6%	9.0%	12.8%	12.2%	6.5%	10.7%	8.0%
2=3-4 times per year	17.4%	23.7%	25.1%	35.6%	9.5%	23.6%	16.2%	16.3%	27.6%	32.3%	21.1%	24.5%	33.0%	29.8%	31.7%	11.1%	21.4%	21.5%
3=1-2 times per year	25.0%	30.6%	32.4%	28.8%	26.9%	34.7%	26.5%	31.7%	29.1%	21.7%	32.5%	30.5%	25.0%	29.5%	35.1%	34.7%	29.1%	31.6%
4=Seldom or never-- have lawn	50.0%	35.3%	28.3%	13.2%	51.7%	29.6%	45.6%	39.1%	32.7%	31.8%	29.2%	34.9%	22.0%	13.2%	18.5%	39.2%	33.5%	31.4%
5=Not applicable--no lawn	4.2%	3.4%	5.5%	7.8%	8.0%	5.5%	7.8%	6.9%	6.1%	4.0%	11.0%	2.4%	11.0%	14.7%	2.4%	8.5%	5.3%	7.4%

#### Watershed Codes

02=St Clair County  
 03=Anchor Bay  
 04=Red Run  
 05=Clinton River East  
 06=North Branch of Clinton  
 07=Lake St Clair Direct Drainage  
 10=South Branch Shiawassee  
 11=Huron River Chain of Lakes

12=Upper Clinton  
 13=Stony/Paint Creek  
 14=Clinton Main  
 15=Kent Lake  
 16=Rouge Headwaters  
 17=Rouge Oakland  
 18=Rouge Middle  
 19=Rouge Detroit  
 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q16a. [if fertilizer used] Which of the following types of fertilizer does your household use?

N=2290	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q16a Which types of fertilizer you use</u>																		
1=Low phosphorus	3.7%	7.7%	8.2%	5.5%	4.9%	8.5%	9.4%	10.7%	13.7%	8.5%	8.5%	20.6%	10.4%	7.4%	7.4%	8.3%	9.2%	8.7%
2=Slow release nitrogen	22.0%	18.3%	13.6%	17.8%	14.6%	23.8%	22.9%	17.0%	23.4%	20.0%	13.2%	24.4%	21.6%	15.8%	19.1%	6.4%	16.9%	16.2%
3=Weed and feed	48.6%	50.0%	40.1%	36.8%	41.5%	40.0%	40.6%	37.5%	36.3%	30.0%	33.3%	35.0%	32.1%	23.7%	41.4%	59.6%	41.5%	43.0%
4=Seasonal variety	26.6%	17.6%	15.6%	25.8%	14.6%	17.7%	20.8%	15.2%	21.0%	22.3%	19.4%	15.6%	20.9%	19.5%	22.8%	8.3%	22.3%	16.9%
5=Other	5.5%	6.3%	9.5%	10.4%	6.1%	9.2%	8.3%	9.8%	9.7%	14.6%	10.9%	13.8%	10.4%	10.5%	9.9%	7.3%	8.5%	8.2%
6=Don't know	21.1%	23.2%	29.3%	28.2%	34.1%	21.5%	26.0%	26.8%	18.5%	29.2%	29.5%	27.5%	31.3%	39.5%	23.5%	19.3%	24.6%	25.5%

#### Watershed Codes

02=St Clair County  
 03=Anchor Bay  
 04=Red Run  
 05=Clinton River East  
 06=North Branch of Clinton  
 07=Lake St Clair Direct Drainage  
 10=South Branch Shiawassee  
 11=Huron River Chain of Lakes

12=Upper Clinton  
 13=Stony/Paint Creek  
 14=Clinton Main  
 15=Kent Lake  
 16=Rouge Headwaters  
 17=Rouge Oakland  
 18=Rouge Middle  
 19=Rouge Detroit  
 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q16b. [if fertilizer used] Which of the following reasons influence the type of fertilizer or pesticide your household uses most?

N=2290	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q16b Reason influence type of fertilizer</u>																		
1=Previous experience with product	49.5%	45.1%	33.3%	41.1%	51.2%	36.2%	39.6%	38.4%	41.1%	35.4%	31.0%	30.6%	35.8%	23.7%	37.7%	28.4%	37.7%	35.6%
2=Price	16.5%	18.3%	17.0%	21.5%	15.9%	13.1%	13.5%	15.2%	20.2%	13.8%	17.8%	16.9%	14.2%	13.2%	15.4%	8.3%	16.2%	14.5%
3=Commercials/ product displays	3.7%	2.8%	4.8%	8.0%	4.9%	4.6%	4.2%	3.6%	4.8%	8.5%	3.1%	3.1%	4.5%	4.2%	6.2%	10.1%	2.3%	5.6%
4=Recommendations from friends	9.2%	8.5%	7.5%	9.2%	6.1%	6.9%	13.5%	10.7%	9.7%	6.2%	9.3%	8.8%	6.0%	6.8%	9.9%	15.6%	14.6%	11.0%
5=Articles in newspapers/ magazines	6.4%	3.5%	4.8%	4.9%	2.4%	4.6%	2.1%	4.5%	1.6%	4.6%	3.1%	5.0%	3.0%	3.7%	6.8%	3.7%	5.4%	4.9%
6=Store employees	6.4%	7.0%	8.2%	6.7%	6.1%	6.9%	8.3%	6.3%	5.6%	3.1%	7.0%	6.3%	8.2%	8.4%	7.4%	5.5%	7.7%	7.4%
7=How safe it is for the environment	14.7%	15.5%	17.0%	17.8%	12.2%	26.9%	17.7%	24.1%	17.7%	20.0%	15.5%	33.1%	15.7%	13.7%	19.1%	20.2%	16.9%	18.1%
8=Other	7.3%	14.1%	10.9%	12.3%	8.5%	8.5%	11.5%	11.6%	16.1%	9.2%	14.0%	13.1%	14.2%	17.9%	13.0%	6.4%	9.2%	10.6%
9=Don't know	14.7%	14.8%	21.8%	20.2%	22.0%	21.5%	21.9%	19.6%	13.7%	20.0%	22.5%	17.5%	23.9%	33.2%	16.7%	17.4%	19.2%	19.5%

**Watershed Codes**

02=St Clair County  
 03=Anchor Bay  
 04=Red Run  
 05=Clinton River East  
 06=North Branch of Clinton

07=Lake St Clair Direct Drainage  
 10=South Branch Shiawassee  
 11=Huron River Chain of Lakes  
 12=Upper Clinton  
 13=Stony/Paint Creek  
 14=Clinton Main

15=Kent Lake  
 16=Rouge Headwaters  
 17=Rouge Oakland  
 18=Rouge Middle  
 19=Rouge Detroit  
 20=Downriver Wayne County

***2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed***

**Q17. Does your household use a lawn service for fertilizer and/or pesticide applications? [excludes those who indicated in Question 16 that they did not have a lawn]**

N=3438	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q17 Use lawn service for fertilizer-pest</u>																		
1=Yes	16.3%	25.9%	29.7%	34.9%	13.5%	25.4%	20.1%	29.8%	30.9%	34.7%	29.1%	33.9%	39.9%	54.9%	32.0%	19.4%	22.3%	27.2%
2=No	83.7%	74.1%	70.3%	65.1%	86.5%	74.6%	79.9%	70.2%	69.1%	65.3%	70.9%	66.1%	60.1%	45.1%	68.0%	80.6%	77.7%	72.7%

**Watershed Codes**

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q17a. [if lawn service used] Does your household ask your lawn service to use environmentally friendly/organic products and practices?

N=995

	Watershed Number																		SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20		

#### Q17a Does lawn service use friendly product

1=Yes-  
environmentally  
friendly products and  
practices are used on  
my lawn

34.2%	25.0%	38.5%	39.4%	35.7%	49.0%	50.0%	35.4%	44.3%	49.3%	40.7%	51.8%	29.9%	33.3%	33.8%	41.7%	33.3%	37.7%
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

2=Yes- I asked, but  
they don't offer them

0.0%	1.7%	3.1%	0.0%	0.0%	0.0%	2.4%	1.5%	3.3%	3.0%	0.0%	6.0%	2.6%	1.4%	0.0%	0.0%	0.0%	1.2%
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

3=No-haven't asked,  
but will in future

26.3%	43.3%	33.8%	26.8%	32.1%	23.5%	16.7%	23.1%	23.0%	20.9%	27.1%	19.3%	40.3%	24.6%	40.0%	27.8%	28.9%	27.7%
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

4=No-don't think  
using environmentally  
friendly products  
matters

5.3%	0.0%	1.5%	2.8%	10.7%	5.9%	4.8%	0.0%	1.6%	3.0%	3.4%	0.0%	1.3%	4.3%	4.6%	2.8%	4.4%	3.5%
------	------	------	------	-------	------	------	------	------	------	------	------	------	------	------	------	------	------

9=Don't know

34.2%	30.0%	23.1%	31.0%	21.4%	21.6%	26.2%	40.0%	27.9%	23.9%	28.8%	22.9%	26.0%	36.2%	21.5%	27.8%	33.3%	29.8%
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

#### Watershed Codes

02=St Clair County  
03=Anchor Bay  
04=Red Run  
05=Clinton River East  
06=North Branch of Clinton  
07=Lake St Clair Direct Drainage  
10=South Branch Shiawassee  
11=Huron River Chain of Lakes

12=Upper Clinton  
13=Stony/Paint Creek  
14=Clinton Main  
15=Kent Lake  
16=Rouge Headwaters  
17=Rouge Oakland  
18=Rouge Middle  
19=Rouge Detroit  
20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

**Q18. Several ways that residents can help reduce pollution of streams and lakes in their community are listed below. Using a 5-point scale where "1" means not willing and "5" means very willing, please indicate how willing would you be to do each of the following by circling the corresponding number below. (excluding not applicable)**

	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<b><u>Q18a Changing car wash practices</u></b>																		
1=Not willing	2.6%	4.5%	5.8%	4.7%	3.6%	3.3%	3.9%	2.4%	5.2%	3.4%	4.5%	2.7%	2.4%	3.3%	4.0%	1.7%	5.3%	3.5%
2=2	1.0%	2.5%	3.2%	3.1%	0.6%	3.3%	1.7%	0.6%	1.1%	1.1%	1.7%	0.5%	3.0%	2.8%	1.1%	1.1%	2.1%	2.6%
3=3	6.6%	8.0%	6.8%	7.3%	5.4%	7.1%	8.4%	4.8%	8.0%	7.8%	8.4%	6.3%	7.7%	6.5%	7.3%	3.9%	6.3%	5.9%
4=4	11.2%	10.5%	10.0%	12.0%	7.2%	9.3%	10.1%	7.1%	9.8%	10.6%	10.1%	9.9%	9.5%	12.6%	13.0%	8.3%	9.5%	9.3%
5=Very willing	78.6%	74.5%	74.2%	72.9%	83.2%	76.9%	76.0%	85.1%	75.9%	77.1%	75.4%	80.6%	77.4%	74.8%	74.6%	85.1%	76.7%	78.6%

**Watershed Codes**

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

**Q18. Several ways that residents can help reduce pollution of streams and lakes in their community are listed below. Using a 5-point scale where "1" means not willing and "5" means very willing, please indicate how willing would you be to do each of the following by circling the corresponding number below. (excluding not applicable)**

N=3720	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<b><u>Q18b Promptly pick up &amp; dispose of pet waste</u></b>																		
1=Not willing	9.3%	7.8%	3.4%	2.3%	7.1%	5.7%	6.7%	13.3%	6.5%	5.3%	3.8%	2.4%	3.5%	2.2%	6.8%	1.6%	4.2%	5.4%
2=2	6.5%	0.9%	2.3%	3.4%	3.1%	0.9%	3.8%	3.3%	2.2%	3.2%	2.5%	0.8%	0.0%	2.2%	2.3%	1.6%	1.0%	1.7%
3=3	1.9%	9.6%	5.7%	4.6%	6.1%	0.9%	9.5%	2.2%	6.5%	8.5%	7.6%	7.1%	7.0%	11.2%	4.5%	3.3%	5.2%	5.2%
4=4	15.9%	8.7%	6.8%	8.0%	10.2%	3.8%	8.6%	14.4%	7.5%	9.6%	17.7%	12.6%	12.8%	6.7%	11.4%	6.6%	14.6%	8.9%
5=Very willing	66.4%	73.0%	81.8%	81.6%	73.5%	88.7%	71.4%	66.7%	77.4%	73.4%	68.4%	77.2%	76.7%	77.5%	75.0%	86.9%	75.0%	78.8%

**Watershed Codes**

02=St Clair County  
 03=Anchor Bay  
 04=Red Run  
 05=Clinton River East  
 06=North Branch of Clinton  
 07=Lake St Clair Direct Drainage  
 10=South Branch Shiawassee  
 11=Huron River Chain of Lakes

12=Upper Clinton  
 13=Stony/Paint Creek  
 14=Clinton Main  
 15=Kent Lake  
 16=Rouge Headwaters  
 17=Rouge Oakland  
 18=Rouge Middle  
 19=Rouge Detroit  
 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

**Q18. Several ways that residents can help reduce pollution of streams and lakes in their community are listed below. Using a 5-point scale where "1" means not willing and "5" means very willing, please indicate how willing would you be to do each of the following by circling the corresponding number below. (excluding not applicable)**

N=3720	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<b><u>Q18c Having septic tank serviced 3-5 years</u></b>																		
1=Not willing	5.3%	10.6%	8.8%	3.8%	3.2%	7.4%	1.0%	4.2%	1.6%	2.7%	3.6%	0.0%	2.9%	0.0%	10.7%	4.8%	0.0%	5.3%
2=2	1.1%	0.0%	0.0%	1.9%	0.0%	0.0%	4.0%	2.5%	1.6%	4.1%	3.6%	0.7%	2.9%	0.0%	3.6%	0.0%	3.1%	2.2%
3=3	5.3%	15.2%	17.6%	1.9%	4.8%	0.0%	6.0%	3.4%	3.2%	1.4%	0.0%	8.1%	5.7%	14.7%	0.0%	4.8%	12.5%	6.9%
4=4	9.5%	7.6%	8.8%	3.8%	7.9%	7.4%	13.0%	11.9%	6.5%	5.4%	28.6%	7.4%	11.4%	14.7%	25.0%	28.6%	6.3%	9.5%
5=Very willing	78.9%	66.7%	64.7%	88.7%	84.1%	85.2%	76.0%	78.0%	87.1%	86.5%	64.3%	83.8%	77.1%	70.6%	60.7%	61.9%	78.1%	76.0%

**Watershed Codes**

02=St Clair County  
 03=Anchor Bay  
 04=Red Run  
 05=Clinton River East  
 06=North Branch of Clinton  
 07=Lake St Clair Direct Drainage  
 10=South Branch Shiawassee  
 11=Huron River Chain of Lakes  
 12=Upper Clinton

13=Stony/Paint Creek  
 14=Clinton Main  
 15=Kent Lake  
 16=Rouge Headwaters  
 17=Rouge Oakland  
 18=Rouge Middle  
 19=Rouge Detroit  
 20=Downriver Wayne County



## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

**Q18. Several ways that residents can help reduce pollution of streams and lakes in their community are listed below. Using a 5-point scale where "1" means not willing and "5" means very willing, please indicate how willing would you be to do each of the following by circling the corresponding number below. (excluding not applicable)**

	Watershed Number																		SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20		
<b><u>Q18d Sweeping excess fertilizer and grass clippings from paved onto lawn</u></b>																			
1=Not willing	3.5%	2.8%	3.4%	2.9%	3.4%	2.4%	3.8%	3.9%	2.5%	2.9%	3.9%	0.5%	1.2%	2.5%	5.2%	3.2%	1.9%	3.4%	
2=2	2.3%	1.1%	0.0%	0.0%	1.4%	0.6%	1.3%	0.7%	1.9%	1.2%	0.7%	0.5%	1.2%	1.5%	0.6%	1.3%	1.9%	1.7%	
3=3	3.5%	4.5%	3.4%	4.7%	4.1%	4.8%	6.9%	3.9%	1.9%	4.7%	7.2%	4.8%	6.8%	5.1%	4.6%	5.7%	2.5%	4.4%	
4=4	9.4%	8.4%	9.6%	9.3%	8.2%	6.1%	6.3%	7.2%	10.1%	9.4%	7.9%	9.7%	10.6%	8.6%	6.9%	8.9%	11.7%	9.0%	
5=Very willing	81.3%	83.1%	83.7%	83.1%	82.9%	86.1%	81.9%	84.3%	83.6%	81.8%	80.3%	84.5%	80.1%	82.3%	82.8%	81.0%	82.1%	81.5%	

**Watershed Codes**

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

**Q18. Several ways that residents can help reduce pollution of streams and lakes in their community are listed below. Using a 5-point scale where "1" means not willing and "5" means very willing, please indicate how willing would you be to do each of the following by circling the corresponding number below. (excluding not applicable)**

	Watershed Number																		SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20		
<u>Q18e Dispose hazardous waste at community collection day</u>																			
1=Not willing	4.9%	3.6%	2.7%	2.9%	1.8%	1.1%	0.6%	2.7%	2.2%	0.5%	3.7%	0.9%	0.6%	2.7%	0.6%	4.9%	2.7%	3.2%	
2=2	1.0%	0.0%	0.5%	0.0%	0.0%	0.5%	0.6%	1.1%	1.7%	1.6%	1.2%	0.9%	2.4%	2.2%	0.6%	1.8%	1.1%	1.0%	
3=3	3.4%	3.6%	4.3%	3.4%	3.6%	2.2%	5.1%	6.0%	3.3%	1.6%	4.3%	4.3%	4.2%	4.0%	0.6%	6.1%	3.8%	3.0%	
4=4	8.4%	6.7%	8.1%	5.1%	6.0%	4.9%	7.3%	6.0%	6.7%	4.9%	7.5%	6.0%	10.2%	5.4%	5.6%	9.2%	10.2%	6.4%	
5=Very willing	82.3%	86.0%	84.4%	88.6%	88.6%	91.3%	86.4%	84.1%	86.1%	91.3%	83.2%	87.9%	82.6%	85.7%	92.7%	77.9%	82.3%	86.4%	

**Watershed Codes**

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

**Q18. Several ways that residents can help reduce pollution of streams and lakes in their community are listed below. Using a 5-point scale where "1" means not willing and "5" means very willing, please indicate how willing would you be to do each of the following by circling the corresponding number below. (excluding not applicable)**

	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q18f Landscaping yard with plants native to Michigan</u>																		
1=Not willing	4.3%	2.4%	3.1%	2.8%	1.1%	2.2%	2.2%	1.6%	4.4%	2.1%	5.2%	3.4%	1.8%	3.2%	3.3%	9.6%	5.5%	4.5%
2=2	1.0%	2.4%	2.6%	3.3%	1.7%	1.7%	1.1%	2.7%	1.1%	5.2%	2.9%	0.9%	2.9%	3.2%	2.7%	3.6%	1.1%	2.0%
3=3	8.1%	11.7%	12.0%	10.0%	2.8%	10.6%	7.5%	15.8%	8.2%	9.9%	16.7%	11.2%	13.5%	13.3%	8.8%	13.9%	11.0%	10.9%
4=4	12.4%	10.7%	12.6%	16.7%	11.1%	11.7%	13.4%	12.5%	17.0%	13.6%	15.5%	13.3%	18.8%	16.1%	11.0%	10.8%	16.0%	13.9%
5=Very willing	74.2%	72.7%	69.6%	67.2%	83.3%	73.7%	75.8%	67.4%	69.2%	69.1%	59.8%	71.2%	62.9%	64.2%	74.2%	62.0%	66.3%	68.7%

**Watershed Codes**

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

**Q18. Several ways that residents can help reduce pollution of streams and lakes in their community are listed below. Using a 5-point scale where "1" means not willing and "5" means very willing, please indicate how willing would you be to do each of the following by circling the corresponding number below. (excluding not applicable)**

	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<b><u>Q18g Using low phosphorus or slow release nitrogen fertilizer on lawn</u></b>																		
1=Not willing	5.8%	4.5%	2.5%	2.5%	1.6%	1.3%	3.7%	3.0%	2.7%	2.0%	3.7%	3.2%	1.4%	1.6%	5.1%	5.6%	1.4%	3.5%
2=2	1.9%	0.6%	0.0%	0.6%	1.6%	0.7%	1.5%	1.5%	1.4%	1.3%	0.0%	0.5%	2.2%	2.7%	0.6%	0.8%	0.7%	0.9%
3=3	8.4%	11.0%	9.5%	6.9%	10.4%	8.0%	7.4%	5.9%	11.6%	8.1%	9.7%	5.9%	9.4%	9.2%	9.0%	9.7%	8.2%	8.9%
4=4	13.5%	12.3%	13.9%	15.6%	14.4%	11.3%	11.1%	11.9%	9.5%	8.7%	17.2%	15.4%	16.5%	18.5%	14.1%	13.7%	21.2%	13.4%
5=Very willing	70.3%	71.4%	74.1%	74.4%	72.0%	78.7%	76.3%	77.8%	74.8%	79.9%	69.4%	75.0%	70.5%	67.9%	71.2%	70.2%	68.5%	73.3%

**Watershed Codes**

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

**Q18. Several ways that residents can help reduce pollution of streams and lakes in their community are listed below. Using a 5-point scale where "1" means not willing and "5" means very willing, please indicate how willing would you be to do each of the following by circling the corresponding number below. (excluding not applicable)**

	Watershed Number																		SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20		
<u>Q18h Changing your lawn watering practices</u>																			
1=Not willing	9.3%	6.1%	4.4%	4.3%	9.6%	2.4%	8.5%	6.1%	6.4%	5.2%	8.2%	3.6%	2.7%	6.2%	4.1%	4.4%	4.6%	5.0%	
2=2	1.3%	3.0%	0.6%	2.5%	4.4%	2.4%	3.5%	3.4%	3.2%	3.5%	1.4%	3.0%	4.1%	3.6%	4.7%	2.5%	5.3%	3.4%	
3=3	7.3%	8.5%	16.1%	13.6%	4.4%	16.9%	8.5%	10.8%	12.2%	9.9%	7.5%	13.7%	14.4%	16.1%	7.0%	10.0%	10.5%	11.2%	
4=4	17.2%	13.4%	16.1%	13.0%	11.4%	10.2%	14.2%	16.9%	14.1%	12.2%	19.9%	13.7%	19.2%	19.2%	15.7%	12.5%	15.8%	15.1%	
5=Very willing	64.9%	68.9%	62.8%	66.7%	70.2%	68.1%	65.2%	62.8%	64.1%	69.2%	63.0%	66.0%	59.6%	54.9%	68.6%	70.6%	63.8%	65.3%	

**Watershed Codes**

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q19. Where would you prefer to receive information about what you can do to protect our lakes and streams?

	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
Q19 Where do you prefer to receive info																		
01=Major newspaper	40.2%	37.9%	36.3%	38.3%	32.5%	43.3%	44.0%	36.8%	39.9%	46.9%	43.6%	39.7%	37.3%	41.9%	40.0%	39.3%	39.9%	38.1%
02=Community newspaper	60.7%	68.3%	52.6%	59.2%	56.2%	57.2%	59.0%	59.2%	56.0%	52.0%	47.0%	58.3%	50.8%	49.2%	48.0%	30.9%	45.3%	49.7%
03=Municipal newsletter	31.2%	27.8%	29.8%	32.8%	36.1%	25.3%	28.5%	30.3%	31.1%	31.6%	26.2%	42.5%	31.1%	35.1%	34.5%	22.5%	28.1%	30.7%
04=Government access TV	7.3%	7.9%	13.0%	10.9%	5.7%	9.8%	8.0%	7.0%	7.3%	7.1%	9.4%	8.9%	9.3%	5.6%	11.0%	20.4%	10.3%	11.9%
05=Television news	40.6%	43.6%	43.7%	40.8%	34.5%	44.3%	38.0%	37.3%	39.4%	38.8%	43.6%	38.5%	42.0%	42.3%	49.5%	56.0%	42.9%	43.0%
06=Radio	18.4%	18.5%	23.3%	21.9%	17.0%	21.6%	25.0%	19.9%	15.0%	28.1%	19.8%	21.1%	19.2%	20.6%	25.0%	29.3%	20.7%	22.0%
07=Internet	12.4%	17.2%	17.7%	17.4%	12.4%	17.0%	19.0%	19.9%	21.8%	20.9%	15.3%	15.8%	15.0%	15.7%	19.5%	18.3%	18.2%	18.4%
08=Billboards	11.1%	13.2%	14.0%	11.4%	8.8%	10.8%	17.5%	9.0%	12.4%	17.3%	8.9%	14.2%	9.8%	10.1%	10.5%	19.4%	11.3%	12.6%
09=Materials from schools	11.1%	10.6%	7.9%	11.9%	13.4%	8.8%	13.0%	11.9%	13.5%	9.7%	9.9%	12.6%	13.0%	11.3%	13.5%	15.7%	12.8%	11.3%
10=Environmental groups	16.2%	10.6%	18.1%	15.9%	9.8%	14.9%	15.0%	13.4%	16.1%	13.8%	13.4%	14.6%	13.5%	16.5%	16.5%	16.8%	13.3%	16.8%
11=Other	3.8%	3.5%	1.9%	1.5%	5.7%	3.6%	5.5%	5.5%	2.6%	5.1%	4.0%	3.2%	5.2%	4.8%	4.5%	5.2%	3.9%	4.2%

#### Watershed Codes

02=St Clair County  
 03=Anchor Bay  
 04=Red Run  
 05=Clinton River East  
 06=North Branch of Clinton

07=Lake St Clair Direct Drainage  
 10=South Branch Shiawassee  
 11=Huron River Chain of Lakes  
 12=Upper Clinton  
 13=Stony/Paint Creek  
 14=Clinton Main

15=Kent Lake  
 16=Rouge Headwaters  
 17=Rouge Oakland  
 18=Rouge Middle  
 19=Rouge Detroit  
 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q21. Which person in your household MOST frequently does the activities listed below? (excluding not applicable)

N=3720	Watershed Number																		SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20		
<u>Q21a Picks up after your dog</u>																			
1=Adult male	51.2%	38.5%	48.1%	45.1%	41.8%	48.9%	54.9%	51.5%	60.9%	53.8%	39.7%	45.9%	56.0%	50.0%	57.4%	44.9%	51.9%	50.3%	
2=Adult female	42.7%	53.8%	44.2%	46.3%	48.1%	50.0%	37.8%	40.9%	32.8%	37.5%	46.0%	44.0%	37.3%	44.1%	38.2%	36.7%	37.0%	40.5%	
3=Child 12-17	2.4%	6.6%	6.5%	7.3%	6.3%	1.1%	4.9%	6.1%	3.1%	6.3%	7.9%	9.2%	4.0%	5.9%	1.5%	10.2%	8.6%	6.1%	
4=Child under 12	3.7%	1.1%	1.3%	1.2%	3.8%	0.0%	2.4%	1.5%	3.1%	2.5%	6.3%	0.9%	2.7%	0.0%	2.9%	8.2%	2.5%	3.1%	

#### Watershed Codes

02=St Clair County  
 03=Anchor Bay  
 04=Red Run  
 05=Clinton River East  
 06=North Branch of Clinton  
 07=Lake St Clair Direct Drainage  
 10=South Branch Shiawassee  
 11=Huron River Chain of Lakes  
 12=Upper Clinton  
 13=Stony/Paint Creek  
 14=Clinton Main  
 15=Kent Lake  
 16=Rouge Headwaters  
 17=Rouge Oakland  
 18=Rouge Middle  
 19=Rouge Detroit  
 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q21. Which person in your household MOST frequently does the activities listed below? (excluding not applicable)

N=3720	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q21b Washes the car</u>																		
1=Adult male	61.7%	67.7%	64.4%	74.3%	67.3%	69.4%	66.7%	66.1%	73.2%	75.8%	66.7%	72.2%	67.1%	62.8%	72.0%	64.3%	71.7%	67.6%
2=Adult female	35.7%	29.7%	35.1%	21.0%	30.4%	29.4%	30.5%	32.1%	25.6%	20.6%	31.0%	24.9%	31.1%	34.4%	25.6%	35.1%	26.7%	30.2%
3=Child 12-17	2.6%	2.1%	0.0%	4.2%	2.4%	1.3%	2.3%	1.2%	1.2%	3.6%	1.8%	2.4%	0.6%	2.2%	1.8%	0.6%	1.7%	1.6%
4=Child under 12	0.0%	0.5%	0.6%	0.6%	0.0%	0.0%	0.6%	0.6%	0.0%	0.0%	0.6%	0.5%	1.2%	0.5%	0.6%	0.0%	0.0%	0.6%

#### Watershed Codes

02=St Clair County  
 03=Anchor Bay  
 04=Red Run  
 05=Clinton River East  
 06=North Branch of Clinton  
 07=Lake St Clair Direct Drainage  
 10=South Branch Shiawassee  
 11=Huron River Chain of Lakes  
 12=Upper Clinton  
 13=Stony/Paint Creek  
 14=Clinton Main  
 15=Kent Lake  
 16=Rouge Headwaters  
 17=Rouge Oakland  
 18=Rouge Middle  
 19=Rouge Detroit  
 20=Downriver Wayne County



## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q21. Which person in your household MOST frequently does the activities listed below? (excluding not applicable)

N=3720	Watershed Number																		SEMCOG Wgt Total	
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20			
<u>Q21c Fertilizes the lawn</u>																				
1=Adult male	78.3%	78.2%	77.0%	90.1%	78.6%	76.4%	90.0%	89.1%	86.5%	85.0%	75.2%	84.3%	87.1%	82.1%	81.7%	76.6%	85.6%	80.2%		
2=Adult female	20.8%	21.8%	23.0%	9.1%	21.4%	23.6%	10.0%	10.9%	13.5%	14.0%	24.8%	15.0%	12.9%	16.8%	18.3%	23.4%	14.4%	19.2%		
3=Child 12-17	0.0%	0.0%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	1.0%	0.0%	0.0%	0.0%	1.1%	0.0%	0.0%	0.0%	0.1%		
4=Child under 12	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%		

#### Watershed Codes

02=St Clair County  
 03=Anchor Bay  
 04=Red Run  
 05=Clinton River East  
 06=North Branch of Clinton  
 07=Lake St Clair Direct Drainage  
 10=South Branch Shiawassee  
 11=Huron River Chain of Lakes  
 12=Upper Clinton  
 13=Stony/Paint Creek  
 14=Clinton Main  
 15=Kent Lake  
 16=Rouge Headwaters  
 17=Rouge Oakland  
 18=Rouge Middle  
 19=Rouge Detroit  
 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q21. Which person in your household MOST frequently does the activities listed below? (excluding not applicable)

N=3720	Watershed Number																		SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20		
<u>Q21d Landscaping/gardening</u>																			
1=Adult male	44.2%	51.7%	42.3%	45.7%	51.4%	47.3%	48.3%	46.5%	47.6%	49.1%	53.7%	48.0%	46.3%	46.5%	52.3%	58.4%	52.8%	50.1%	
2=Adult female	55.3%	47.8%	57.7%	54.3%	48.6%	51.5%	50.6%	52.4%	52.4%	50.9%	45.1%	51.5%	53.1%	52.9%	47.1%	40.1%	46.1%	49.1%	
3=Child 12-17	0.5%	0.5%	0.0%	0.0%	0.0%	1.2%	1.1%	1.2%	0.0%	0.0%	1.2%	0.4%	0.6%	0.5%	0.6%	1.5%	1.1%	0.8%	

#### Watershed Codes

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q21. Which person in your household MOST frequently does the activities listed below? (excluding not applicable)

N=3720	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q21e Mows the lawn</u>																		
1=Adult male	75.0%	74.6%	74.4%	78.4%	75.4%	76.2%	81.8%	75.6%	76.8%	78.4%	72.8%	79.2%	79.2%	79.2%	77.8%	71.6%	78.7%	75.5%
2=Adult female	17.7%	19.3%	20.3%	10.8%	21.0%	16.3%	13.9%	19.4%	14.2%	11.7%	19.0%	15.8%	14.6%	15.0%	16.8%	19.9%	14.4%	17.7%
3=Child 12-17	5.7%	5.1%	4.7%	10.8%	3.0%	7.5%	3.6%	5.0%	9.0%	9.9%	7.5%	4.0%	6.3%	5.8%	5.4%	8.5%	6.9%	6.5%
4=Child under 12	1.6%	1.0%	0.6%	0.0%	0.6%	0.0%	0.6%	0.0%	0.0%	0.0%	0.7%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%

#### Watershed Codes

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q21. Which person in your household MOST frequently does the activities listed below? (excluding not applicable)

N=3720	Watershed Number																		SEMCOG Wgt Total	
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20			
<u>Q21f Vehicle maintenance</u>																				
1=Adult male	84.0%	82.5%	80.1%	89.2%	89.3%	84.0%	88.6%	85.0%	88.3%	89.5%	78.7%	87.0%	84.1%	73.3%	88.9%	70.9%	79.5%		81.8%	
2=Adult female	16.0%	17.5%	19.9%	10.1%	10.7%	16.0%	10.8%	13.7%	11.7%	9.9%	21.3%	12.0%	15.9%	26.0%	11.1%	28.4%	19.9%		17.6%	
3=Child 12-17	0.0%	0.0%	0.0%	0.6%	0.0%	0.0%	0.6%	1.3%	0.0%	0.6%	0.0%	1.0%	0.0%	0.7%	0.0%	0.7%	0.0%		0.3%	
4=Child under 12	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%		0.4%	

#### Watershed Codes

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q21. Which person in your household MOST frequently does the activities listed below? (excluding not applicable)

N=3720	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q21g Disposes household hazardous waste</u>																		
1=Adult male	75.4%	77.0%	68.9%	75.9%	81.6%	71.6%	83.7%	76.5%	81.2%	77.9%	71.5%	83.4%	76.4%	69.2%	77.5%	65.4%	75.1%	75.7%
2=Adult female	24.6%	23.0%	30.6%	24.1%	18.4%	28.4%	16.3%	22.4%	18.8%	21.5%	28.5%	16.6%	23.6%	30.8%	21.3%	33.3%	24.9%	23.7%
3=Child 12-17	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.6%	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%	1.1%	1.3%	0.0%	0.3%
4=Child under 12	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%

#### Watershed Codes

02=St Clair County  
 03=Anchor Bay  
 04=Red Run  
 05=Clinton River East  
 06=North Branch of Clinton  
 07=Lake St Clair Direct Drainage  
 10=South Branch Shiawassee  
 11=Huron River Chain of Lakes  
 12=Upper Clinton  
 13=Stony/Paint Creek  
 14=Clinton Main  
 15=Kent Lake  
 16=Rouge Headwaters  
 17=Rouge Oakland  
 18=Rouge Middle  
 19=Rouge Detroit  
 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q22. Which of the following best describes your race/ethnicity (check all that apply)?

N=3720	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q22 Which describes your race-ethnicity</u>																		
1=Asian/Pacific Islander	1.7%	0.0%	2.7%	0.5%	0.5%	0.5%	1.0%	0.5%	0.0%	1.0%	0.9%	3.2%	6.0%	3.8%	2.4%	1.0%	1.4%	1.7%
2=Black/African American	0.8%	1.7%	12.7%	1.9%	1.0%	2.5%	2.0%	1.5%	0.5%	1.5%	12.7%	2.0%	5.0%	5.7%	7.3%	63.7%	4.8%	18.1%
3=White	94.5%	94.8%	84.6%	93.7%	96.5%	90.0%	94.1%	92.7%	96.0%	91.5%	77.9%	88.5%	83.0%	87.8%	87.3%	28.4%	89.5%	76.0%
4=American Indian/ Eskimo	0.4%	0.9%	0.5%	0.0%	2.5%	3.0%	1.0%	1.0%	2.0%	1.0%	1.9%	0.8%	2.0%	0.8%	1.0%	2.0%	1.0%	1.1%
5=Other	4.6%	2.6%	3.2%	4.4%	1.5%	8.0%	4.4%	4.9%	4.0%	6.0%	8.5%	5.5%	6.0%	4.2%	4.4%	10.3%	4.8%	5.3%

#### Watershed Codes

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q23. Are you or any other members of your household of Hispanic, Latino, or other Spanish ancestry?

N=3720	Watershed Number																	SEMCOG Wgt Total	
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20		
<u>Q23 Anyone in household Hispanic-Latino</u>																			
1=Yes	3.8%	1.7%	2.3%	1.0%	5.0%	6.0%	2.0%	3.4%	4.0%	3.5%	5.6%	1.6%	4.0%	3.4%	2.0%	8.3%	5.2%	3.5%	
2=No	93.2%	97.0%	95.5%	97.1%	92.1%	91.0%	92.7%	92.2%	92.0%	90.0%	87.3%	95.3%	91.0%	93.5%	94.1%	88.7%	91.4%	93.3%	
9=No response	3.0%	1.3%	2.3%	1.9%	3.0%	3.0%	5.4%	4.4%	4.0%	6.5%	7.0%	3.2%	5.0%	3.1%	3.9%	2.9%	3.3%	3.2%	

#### Watershed Codes

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q24. What is your age?

N=3720	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q24 What is your age</u>																		
24=Under 25	2.5%	2.2%	4.1%	2.0%	4.0%	2.5%	3.9%	1.5%	2.0%	2.5%	2.8%	1.2%	4.5%	1.9%	3.9%	6.4%	3.8%	4.0%
34=25 to 34	8.4%	13.0%	14.0%	7.4%	10.0%	14.6%	10.2%	6.9%	11.0%	12.0%	11.3%	11.5%	11.0%	5.4%	13.7%	11.9%	13.8%	12.6%
44=35 to 44	17.7%	22.9%	19.0%	16.7%	24.4%	12.6%	16.6%	22.5%	18.0%	20.0%	23.1%	20.6%	23.0%	16.1%	17.6%	12.9%	16.7%	18.6%
54=45 to 54	23.2%	20.8%	20.8%	21.1%	22.4%	29.1%	26.8%	21.6%	27.0%	26.0%	22.2%	30.6%	22.5%	19.5%	18.0%	24.8%	19.5%	22.0%
64=55 to 64	18.1%	20.3%	14.9%	27.9%	17.4%	16.6%	22.4%	22.1%	21.5%	25.5%	14.6%	19.0%	20.5%	22.2%	17.6%	19.3%	21.4%	17.3%
65=65+	30.0%	20.8%	27.1%	25.0%	21.9%	24.6%	20.0%	25.5%	20.5%	14.0%	25.9%	17.1%	18.5%	34.9%	29.3%	24.8%	24.8%	25.5%

### Watershed Codes

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County



## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q25. Would you say your SEMCOG Wgt Total annual household income is:

N=3720	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q25 Would you say your household income</u>																		
1=Under \$35,000	21.5%	19.8%	22.6%	13.6%	16.3%	20.0%	15.6%	17.1%	13.5%	8.5%	23.9%	9.5%	14.5%	10.7%	21.0%	37.3%	23.3%	22.7%
2=\$35,000-\$59,999	31.2%	24.6%	24.0%	26.2%	22.8%	22.5%	28.3%	18.0%	22.0%	17.4%	25.4%	20.9%	21.0%	14.9%	29.3%	25.5%	31.4%	25.0%
3=\$60,000-\$99,999	18.6%	26.3%	20.8%	23.3%	25.7%	26.0%	30.2%	29.8%	24.0%	28.9%	20.7%	27.3%	18.5%	18.3%	21.5%	15.2%	17.1%	20.8%
4=\$100,000-\$199,999	7.2%	11.6%	14.0%	12.1%	12.4%	11.0%	8.3%	14.6%	22.5%	23.4%	12.7%	17.0%	20.5%	20.2%	9.8%	2.9%	5.2%	10.8%
5=More than \$200,000	0.8%	0.0%	0.9%	2.4%	0.5%	3.5%	0.0%	1.5%	1.5%	3.0%	0.5%	2.8%	1.5%	8.4%	1.0%	0.0%	1.0%	1.5%
9=No response	20.7%	17.7%	17.6%	22.3%	22.3%	17.0%	17.6%	19.0%	16.5%	18.9%	16.9%	22.5%	24.0%	27.5%	17.6%	19.1%	21.9%	19.2%

#### Watershed Codes

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Q26. Your gender:

N=3720	Watershed Number																	SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20	
<u>Q26 Your gender</u>																		
1=Male	47.7%	49.1%	45.2%	55.3%	47.5%	48.0%	49.8%	55.1%	57.5%	51.2%	47.4%	51.8%	50.0%	53.1%	50.7%	42.6%	44.3%	49.5%
2=Female	52.3%	50.9%	54.8%	44.7%	52.5%	52.0%	50.2%	44.9%	42.5%	48.8%	52.6%	48.2%	50.0%	46.9%	49.3%	57.4%	55.7%	50.5%

### Watershed Codes

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County

## 2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed

### Optional: Would you like SEMCOG to keep you informed about environmental and other planning issues in the region?

N=3720	Watershed Number																		SEMCOG Wgt Total
	02	03	04	05	06	07	10	11	12	13	14	15	16	17	18	19	20		
<u>Would you like to be kept you informed</u>																			
1=Yes	53.9%	49.8%	53.8%	52.5%	51.2%	42.2%	48.3%	48.8%	50.0%	44.3%	42.0%	52.2%	40.5%	49.0%	50.7%	53.9%	43.5%		51.3%
2=No	44.3%	48.1%	45.2%	45.1%	48.3%	57.8%	49.3%	51.2%	47.5%	54.2%	56.1%	47.0%	58.0%	48.3%	47.3%	45.1%	54.1%		47.4%
9=Don't know	1.7%	2.2%	0.9%	2.5%	0.5%	0.0%	2.5%	0.0%	2.5%	1.5%	1.9%	0.8%	1.5%	2.7%	2.0%	1.0%	2.4%		1.3%

#### Watershed Codes

- 02=St Clair County
- 03=Anchor Bay
- 04=Red Run
- 05=Clinton River East
- 06=North Branch of Clinton
- 07=Lake St Clair Direct Drainage
- 10=South Branch Shiawassee
- 11=Huron River Chain of Lakes
- 12=Upper Clinton
- 13=Stony/Paint Creek
- 14=Clinton Main
- 15=Kent Lake
- 16=Rouge Headwaters
- 17=Rouge Oakland
- 18=Rouge Middle
- 19=Rouge Detroit
- 20=Downriver Wayne County

## *2004 SEMCOG Regional Water Quality Survey Results – Crosstabs by Watershed*

### 2004 SEMCOG Regional Water Quality Survey Weighting Factors

Code	Watershed Name	2000 Census Population	% of Actual SEMCOG Population	Completed Surveys	% of Survey Sample	Weighting Factor
2	St. Clair County	164,235	3.40%	237	6.37%	0.53
3	Anchor Bay	140,606	2.91%	232	6.24%	0.47
4	Red Run	846,841	17.52%	221	5.94%	2.95
5	Clinton River East	255,975	5.30%	206	5.54%	0.96
6	North Branch of Clinton	37,131	0.77%	202	5.43%	0.14
7	Lake St. Clair Direct Drainage	192,170	3.98%	200	5.38%	0.74
10	South Branch Shiawassee	113,965	2.36%	205	5.51%	0.43
11	Huron River Chain of Lakes	106,918	2.21%	205	5.51%	0.40
12	Upper Clinton	123,005	2.54%	200	5.38%	0.47
13	Stony/Paint Creek	76,296	1.58%	201	5.40%	0.29
14	Clinton Main	133,125	2.75%	213	5.73%	0.48
15	Kent Lake	113,418	2.35%	253	6.80%	0.35
16	Rouge Headwaters	159,775	3.31%	200	5.38%	0.61
17	Rouge Oakland	276,053	5.71%	262	7.04%	0.81
18	Rouge Middle	391,943	8.11%	205	5.51%	1.47
19	Rouge Detroit	568,047	11.75%	204	5.48%	2.14
20	Downriver Wayne County	347,123	7.18%	210	5.65%	1.27
1*	Other SEMCOG – not part of watershed	786,742	16.28%	64	1.72%	9.46
	<b>Regional Total</b>	<b>4,833,368</b>	<b>100.00%</b>	<b>3720</b>	<b>100.00%</b>	<b>1.0</b>

\*Note: In addition to the samples that were selected from each watershed in the region, another random sample of 200 surveys was selected from the entire SEMCOG region. Of the 200 surveys from the entire region, 166 surveys were assigned to one of the watersheds listed above through a geocoding process that was applied to the address of the responding households. The remaining 34 surveys were located outside a watershed. An additional 30 surveys (for a total of 64 completed surveys in the “Other SEMCOG” area) that were originally assigned to one of the watersheds were reassigned to the “Other SEMCOG” area as a result of the geocoding process.

Section 4:  
Results for Areas Outside  
the SEMCOG Region

---

**Watershed Codes: Flint=8, Jackson=9**

**Q1. Do you think the quality of water in lakes, rivers, and streams in the community where you live is:**

N=411	<u>Watershed Codes</u>	
	08	09
 <u>Q1 Quality of water in lakes-rivers</u>		
1=Getting much worse	20.9%	9.5%
2=Getting somewhat worse	30.8%	25.5%
3=The same	19.0%	25.5%
4=Getting somewhat better	11.4%	13.0%
5=Getting much better	0.9%	4.0%
9=Don't know	17.1%	22.5%

**Q1. Do you think the quality of water in lakes, rivers, and streams in the community where you live is: (without don't knows)**

N=411	<u>Watershed Codes</u>	
	08	09
 <u>Q1 Quality of water in lakes-rivers</u>		
1=Getting much worse	25.1%	12.3%
2=Getting somewhat worse	37.1%	32.9%
3=The same	22.9%	32.9%
4=Getting somewhat better	13.7%	16.8%
5=Getting much better	1.1%	5.2%

**Watershed Codes: Flint=8, Jackson=9**

**Q2. Do you think the way you care for your lawn and home affects the quality of water in lakes and streams in the community where you live?**

N=411	<u>Watershed Codes</u>	
	08	09

Q2 Way you care for your lawn and home

1=Yes	55.5%	56.0%
2=No	30.8%	34.0%
9=Don't know	13.7%	10.0%

**Q2. Do you think the way you care for your lawn and home affects the quality of water in lakes and streams in the community where you live? (excluding don't knows)**

N=411	<u>Watershed Codes</u>	
	08	09

Q2 Way you care for your lawn and home

1=Yes	64.3%	62.2%
2=No	35.7%	37.8%

**Q3. In the past 2 years, have you or someone in your household taken action in your home, yard or community to protect our water resources?**

N=411	<u>Watershed Codes</u>	
	08	09

Q3 Taken action to protect water resources

1=Yes	28.0%	37.5%
2=No	64.0%	55.5%
9=Don't know	8.1%	7.0%

**Watershed Codes: Flint=8, Jackson=9**

**Q3. In the past 2 years, have you or someone in your household taken action in your home, yard or community to protect our water resources? (excluding don't knows)**

N=411	<u>Watershed Codes</u>	
	08	09

Q3 Taken action to protect water resources

1=Yes	30.4%	40.3%
2=No	69.6%	59.7%

**Q4. Which ONE of the following do you think contributes the MOST pollution to lakes, rivers and streams in the community where you live?**

N=411	<u>Watershed Codes</u>	
	08	09

Q4 Which contributes most to pollution

1=Wastewater treatment plant discharges	11.4%	8.0%
2=Factories/industrial discharges	37.6%	32.6%
3=Stormwater runoff	21.3%	34.3%
4=Sewage overflows	29.7%	25.1%



**Watershed Codes: Flint=8, Jackson=9**

**Q5. Please indicate your level of agreement with the following statement: "The quality of local streams where I live affects the Great Lakes and Lake St. Clair."**

N=411	<u>Watershed Codes</u>	
	08	09
<u>Q5 Quality of streams affect Great Lakes</u>		
1=Strongly agree	23.2%	17.0%
2=Agree	38.9%	47.0%
3=Neither	9.5%	10.0%
4=Disagree	9.0%	8.5%
5=Strongly disagree	0.5%	2.5%
9=Don't know	19.0%	15.0%

**Q5. Please indicate your level of agreement with the following statement: "The quality of local streams where I live affects the Great Lakes and Lake St. Clair." (excluding don't knows)**

N=411	<u>Watershed Codes</u>	
	08	09
<u>Q5 Quality of streams affect Great Lakes</u>		
1=Strongly agree	28.7%	20.0%
2=Agree	48.0%	55.3%
3=Neither	11.7%	11.8%
4=Disagree	11.1%	10.0%
5=Strongly disagree	0.6%	2.9%

**Watershed Codes: Flint=8, Jackson=9**

**Q6. Where does stormwater (rain water) go after it enters a storm drain or roadside ditch in your community?**

N=411	<u>Watershed Codes</u>	
	08	09
 <u>Q6 Where does stormwater-rain water go</u>		
1=Directly to lakes & streams without treatment	19.4%	37.5%
2=To lakes & streams after treatment	7.6%	5.5%
3=To a wastewater treatment plant	21.8%	16.5%
9=Don't know	51.2%	40.5%

**Q7. Which ONE of the following BEST describes the location where you live?**

N=411	<u>Watershed Codes</u>	
	08	09
 <u>Q7 Location where you live</u>		
1=Near a watershed	12.3%	15.0%
2=In a watershed	10.4%	16.5%
3=Don't live in a watershed	20.4%	18.5%
9=Don't know/not familiar	56.9%	50.0%

**Watershed Codes: Flint=8, Jackson=9**

**Q8. Which activities have you or other members of your household participated in or near lakes and streams in this area during the past year?**

N=411	Watershed Codes	
	08	09
<u>Q8 Participated in or near lakes-streams</u>		
1=Fishing	38.9%	49.5%
2=Boating	24.6%	40.5%
3=Canoeing/kayaking	10.9%	14.5%
A=Bird/nature watching	19.9%	29.0%
4=Picnicking	35.1%	36.5%
5=Biking	19.4%	23.5%
6=Swimming	30.8%	41.5%
7=Hiking/walking	37.9%	44.0%
8=Other	3.8%	5.0%
0=Don't participate in activities near lakes/streams	28.0%	18.5%

**Watershed Codes: Flint=8, Jackson=9**

**Q9. Which of the following road signs have you seen in your community?**

N=411	<u>Watershed Codes</u>	
	08	09
 <u>Q9 Which road signs seen in community</u>		
1=Signs identifying rivers	29.2%	38.7%
2=Signs indicating entering a watershed	4.3%	1.0%
3=Neither of these signs in my community	66.5%	60.3%

**Q10. Where does your household typically wash your vehicle(s) during the summer?**

N=411	<u>Watershed Codes</u>	
	08	09
 <u>Q10 Where typically wash your vehicle</u>		
1=Home in the driveway	16.1%	21.0%
2=Home in the grass	6.2%	10.5%
3=Carwash	69.2%	70.5%
4=Other	0.5%	0.5%
5=Don't wash a vehicle	10.4%	4.0%

**Watershed Codes: Flint=8, Jackson=9**

**Q11. Do you have a septic system at your home?**

N=411	<u>Watershed Codes</u>	
	08	09

Q11 Do you have a septic tank at home

1=Yes	10.5%	50.0%
2=No	89.5%	50.0%

**Q11a. [if yes to Q11] Has your household had your septic system checked or serviced during the past 3-5 years?**

N=122	<u>Watershed Codes</u>	
	08	09

Q11a Have septic system check past 5 yrs

1=Yes	68.2%	60.0%
2=No	31.8%	39.0%
9=No response	0.0%	1.0%

**Q12. Do you or other members of your household usually change motor oil, transmission fluid, or radiator fluid for a vehicle at your home?**

N=411	<u>Watershed Codes</u>	
	08	09

Q12 Usually change motor oil etc at home

1=Yes	12.6%	22.5%
2=No	87.4%	77.5%

**Watershed Codes: Flint=8, Jackson=9**

**Q13. Where does your household typically dispose of materials, such as old oil/fluids from your vehicle, batteries, pesticides, and other household hazardous wastes?**

N=411	Watershed Codes	
	08	09
<u>Q13 Where typically dispose of materials</u>		
1=On the ground	0.0%	1.0%
2=With my regular trash	19.4%	15.0%
3=Community collection site	55.9%	69.5%
4=Keep in a container at home	8.1%	3.0%
6=Other	17.5%	11.5%
9=No response	1.9%	2.5%

**Q13a. [if location other than scheduled community collection site or facility] Why doesn't your household typically dispose of your household hazardous waste at a community collection site?**

N=128	Watershed Codes	
	08	09
<u>Q13a Why do you not dispose hazardous</u>		
1=Don't know where located	59.7%	35.3%
2=Don't have time	6.5%	15.7%
3=No sites near my home	13.0%	19.6%
4=Don't think are necessary	3.9%	2.0%
5=Other	18.2%	31.4%

**Watershed Codes: Flint=8, Jackson=9**

**Q14. Do you or other members of your household typically pick up your dog's waste when you go for a walk?**

N=411	<u>Watershed Codes</u>	
	08	09

Q14 Do you pick up dog waste when walking dog

1=Yes	27.6%	28.0%
2=No	4.8%	15.0%
3=No don't have dog	67.6%	57.0%

**Q14a. [if a dog] How does your household typically dispose of your dog's waste?**

N=154	<u>Watershed Codes</u>	
	08	09

Q14a How do you dispose of dog waste

1=Throw in ditch	0.0%	1.2%
2=Dispose with regular trash	55.9%	43.0%
3=Bury in ground	10.3%	15.1%
4=Put in street or down storm drain	0.0%	1.2%
5=Do not pick up dog waste	16.2%	23.3%
6=Other	11.8%	17.4%
9=No response	7.4%	2.3%

**Watershed Codes: Flint=8, Jackson=9**

**Q15. What does your household typically do with your grass clippings and/or leaves?**

N=411	Watershed Codes	
	08	09
 <u>Q15 What do you do with grass clippings</u>		
1=Leave on the lawn/mulch	41.7%	65.5%
2=Compost them in yard	17.1%	19.5%
3=Put in roadside ditch	0.0%	1.0%
4=Curbside pickup	43.1%	11.5%
5=Other	3.8%	10.5%
6=Do not have a yard	6.6%	4.0%

**Q16. Which of the following BEST describes how often your household fertilizes your lawn?**

N=411	Watershed Codes	
	08	09
 <u>Q16 How often do you fertilize your lawn</u>		
1=5 or more times	2.4%	5.0%
2=3-4 times per year	7.7%	12.5%
3=1-2 times per year	24.5%	29.5%
4=Seldom or never--have lawn	53.4%	48.5%
5=Not applicable--no lawn	12.0%	4.5%



**Watershed Codes: Flint=8, Jackson=9**

**Q16a. [if fertilizer used] Which of the following types of fertilizer does your household use?**

N=169	Watershed Codes	
	08	09
<u>Q16a Which types of fertilizer you use</u>		
1=Low phosphorus	9.3%	9.6%
2=Slow release nitrogen	9.3%	20.2%
3=Weed and feed	46.7%	48.9%
4=Seasonal variety	12.0%	13.8%
5=Other	6.7%	6.4%
6=Don't know	28.0%	27.7%

**Q16b. [if fertilizer used] Which of the following reasons influence the type of fertilizer or pesticide your household uses most?**

N=169	Watershed Codes	
	08	09
<u>Q16b Reason influence type of fertilizer</u>		
1=Previous experience with product	37.3%	38.3%
2=Price	10.7%	25.5%
3=Commercials/product displays	5.3%	0.0%
4=Recommendations from friends	17.3%	7.4%
5=Articles in newspapers/ magazines	4.0%	3.2%
6=Store employees	12.0%	8.5%
7=How safe it is for the environment	6.7%	12.8%
8=Other	5.3%	10.6%
9=Don't know	22.7%	24.5%

**Watershed Codes: Flint=8, Jackson=9**

**Q17. Does your household use a lawn service for fertilizer and/or pesticide applications? [excludes those who indicated in Question 16 that they did not have a lawn]**

N=377

	<u>Watershed Codes</u>	
	08	09

Q17 Use lawn service for fertilizer-pest

1=Yes	17.9%	16.0%
2=No	82.1%	84.0%

**Q17a. [if lawn service used] Does your household ask your lawn service to use environmentally friendly/organic products and practices?**

N=66

	<u>Watershed Codes</u>	
	08	09

Q17a Does lawn service use friendly product

1=Yes-environmentally friendly products and practices are used on my lawn	17.1%	48.4%
2=Yes- I asked, but they don't offer them	0.0%	3.2%
3=No-haven't asked, but will in future	45.7%	29.0%
4=No-don't think using environmentally friendly products matters	2.9%	0.0%
9=Don't know	34.3%	19.4%

Watershed Codes: Flint=8, Jackson=9

**Q18. Several ways that residents can help reduce pollution of streams and lakes in their community are listed below. Using a 5-point scale where "1" means not willing and "5" means very willing, please indicate how willing would you be to do each of the following by circling the corresponding number below. (excluding not applicable)**

N=411	<u>Watershed Codes</u>	
	08	09
 <u>Q18a Changing car wash practices</u>		
1=Not willing	4.4%	7.7%
2=2	1.1%	0.6%
3=3	6.6%	5.4%
4=4	6.6%	8.9%
5=Very willing	81.2%	77.4%

**Q18. Several ways that residents can help reduce pollution of streams and lakes in their community are listed below. Using a 5-point scale where "1" means not willing and "5" means very willing, please indicate how willing would you be to do each of the following by circling the corresponding number below. (excluding not applicable)**

N=411	<u>Watershed Codes</u>	
	08	09
 <u>Q18b Promptly pick up &amp; dispose of pet waste</u>		
1=Not willing	13.3%	16.5%
2=2	0.0%	4.4%
3=3	9.6%	6.6%
4=4	6.0%	13.2%
5=Very willing	71.1%	59.3%

Watershed Codes: Flint=8, Jackson=9

**Q18. Several ways that residents can help reduce pollution of streams and lakes in their community are listed below. Using a 5-point scale where "1" means not willing and "5" means very willing, please indicate how willing would you be to do each of the following by circling the corresponding number below. (excluding not applicable)**

N=411	<u>Watershed Codes</u>	
	08	09
 <u>Q18c Having septic tank serviced 3-5 years</u>		
1=Not willing	2.5%	8.5%
2=2	0.0%	3.2%
3=3	15.0%	12.8%
4=4	20.0%	12.8%
5=Very willing	62.5%	62.8%

**Q18. Several ways that residents can help reduce pollution of streams and lakes in their community are listed below. Using a 5-point scale where "1" means not willing and "5" means very willing, please indicate how willing would you be to do each of the following by circling the corresponding number below. (excluding not applicable)**

N=411	<u>Watershed Codes</u>	
	08	09
 <u>Q18d Sweeping excess fertilizer and grass clippings from paved onto lawn</u>		
1=Not willing	6.3%	5.2%
2=2	2.5%	0.0%
3=3	5.7%	6.5%
4=4	8.2%	7.8%
5=Very willing	77.4%	80.4%

Watershed Codes: Flint=8, Jackson=9

**Q18. Several ways that residents can help reduce pollution of streams and lakes in their community are listed below. Using a 5-point scale where "1" means not willing and "5" means very willing, please indicate how willing would you be to do each of the following by circling the corresponding number below. (excluding not applicable)**

N=411	<u>Watershed Codes</u>	
	08	09

Q18e Dispose hazardous waste at community collection day

1=Not willing	3.4%	1.8%
2=2	0.6%	1.8%
3=3	6.7%	7.2%
4=4	10.1%	8.4%
5=Very willing	79.3%	80.8%

**Q18. Several ways that residents can help reduce pollution of streams and lakes in their community are listed below. Using a 5-point scale where "1" means not willing and "5" means very willing, please indicate how willing would you be to do each of the following by circling the corresponding number below. (excluding not applicable)**

N=411	<u>Watershed Codes</u>	
	08	09

Q18f Landscaping yard with plants native to Michigan

1=Not willing	6.4%	3.0%
2=2	0.6%	1.2%
3=3	8.8%	7.2%
4=4	12.9%	11.4%
5=Very willing	71.3%	77.1%

Watershed Codes: Flint=8, Jackson=9

**Q18. Several ways that residents can help reduce pollution of streams and lakes in their community are listed below. Using a 5-point scale where "1" means not willing and "5" means very willing, please indicate how willing would you be to do each of the following by circling the corresponding number below. (excluding not applicable)**

N=411                      Watershed Codes  
   08                  09

Q18g Using low phosphorus or slow release nitrogen fertilizer on lawn

1=Not willing	7.0%	6.6%
2=2	0.9%	1.7%
3=3	12.2%	5.0%
4=4	9.6%	12.4%
5=Very willing	70.4%	74.4%

**Q18. Several ways that residents can help reduce pollution of streams and lakes in their community are listed below. Using a 5-point scale where "1" means not willing and "5" means very willing, please indicate how willing would you be to do each of the following by circling the corresponding number below. (excluding not applicable)**

N=411                      Watershed Codes  
   08                  09

Q18h Changing your lawn watering practices

1=Not willing	8.2%	9.6%
2=2	0.0%	3.7%
3=3	12.2%	10.3%
4=4	10.2%	13.2%
5=Very willing	69.4%	63.2%

**Watershed Codes: Flint=8, Jackson=9**

**Q19. Where would you prefer to receive information about what you can do to protect our lakes and streams?**

N=396	Watershed Codes	
	08	09
 <u>Q19 Where do you prefer to receive info</u>		
01=Major newspaper	36.5%	37.8%
02=Community newspaper	34.6%	58.5%
03=Municipal newsletter	21.6%	19.7%
04=Government access TV	12.0%	10.1%
05=Television news	50.0%	38.3%
06=Radio	20.2%	22.9%
07=Internet	18.3%	14.9%
08=Billboards	12.0%	17.6%
09=Materials from schools	10.6%	11.7%
10=Environmental groups	17.8%	13.3%
11=Other	8.2%	3.2%

**Q21. Which person in your household MOST frequently does the activities listed below? (excluding not applicable)**

N=411	Watershed Codes	
	08	09
 <u>Q21a Picks up after your dog</u>		
1=Adult male	57.4%	42.3%
2=Adult female	41.0%	47.9%
3=Child 12-17	0.0%	7.0%
4=Child under 12	1.6%	2.8%

**Watershed Codes: Flint=8, Jackson=9**

**Q21. Which person in your household MOST frequently does the activities listed below? (excluding not applicable)**

N=411	Watershed Codes	
	08	09
 <u>Q21b Washes the car</u>		
1=Adult male	62.6%	59.6%
2=Adult female	36.8%	38.0%
3=Child 12-17	0.0%	2.3%
4=Child under 12	0.6%	0.0%

**Q21. Which person in your household MOST frequently does the activities listed below? (excluding not applicable)**

N=411	Watershed Codes	
	08	09
 <u>Q21c Fertilizes the lawn</u>		
1=Adult male	77.9%	82.1%
2=Adult female	19.5%	17.9%
3=Child 12-17	2.6%	0.0%



**Watershed Codes: Flint=8, Jackson=9**

**Q21. Which person in your household MOST frequently does the activities listed below? (excluding not applicable)**

N=411	Watershed Codes	
	08	09

Q21d Landscaping/gardening

1=Adult male	52.2%	44.5%
2=Adult female	47.8%	54.9%
3=Child 12-17	0.0%	0.6%

**Q21. Which person in your household MOST frequently does the activities listed below? (excluding not applicable)**

N=411	Watershed Codes	
	08	09

Q21e Mows the lawn

1=Adult male	74.6%	71.8%
2=Adult female	21.9%	20.9%
3=Child 12-17	3.0%	7.4%
4=Child under 12	0.6%	0.0%

**Watershed Codes: Flint=8, Jackson=9**

**Q21. Which person in your household MOST frequently does the activities listed below? (excluding not applicable)**

N=411	Watershed Codes	
	08	09

Q21f Vehicle maintenance

1=Adult male	74.4%	80.6%
2=Adult female	25.0%	19.4%
3=Child 12-17	0.6%	0.0%

**Q21. Which person in your household MOST frequently does the activities listed below? (excluding not applicable)**

N=411	Watershed Codes	
	08	09

Q21g Disposes household hazardous waste

1=Adult male	70.6%	75.0%
2=Adult female	28.8%	25.0%
3=Child 12-17	0.6%	0.0%

**Watershed Codes: Flint=8, Jackson=9**

**Q22. Which of the following best describes your race/ethnicity (check all that apply)?**

N=411	<u>Watershed Codes</u>	
	08	09

Q22 Which describes your race-ethnicity

1=Asian/Pacific Islander	0.5%	1.0%
2=Black/African American	29.4%	5.0%
3=White	66.8%	92.0%
4=American Indian/Eskimo	1.9%	2.0%
5=Other	3.8%	2.5%

**Q23. Are you or any other members of your household of Hispanic, Latino, or other Spanish ancestry?**

N=411	<u>Watershed Codes</u>	
	08	09

Q23 Anyone in household Hispanic-Latino

1=Yes	6.6%	2.0%
2=No	89.6%	95.5%
9=No response	3.8%	2.5%

**Watershed Codes: Flint=8, Jackson=9**

**Q24. What is your age?**

N=411	<u>Watershed Codes</u>	
	08	09

Q24 What is your age

24=Under 25	6.2%	6.0%
34=25 to 34	13.7%	11.6%
44=35 to 44	15.2%	14.6%
54=45 to 54	24.6%	19.1%
64=55 to 64	17.5%	21.6%
65=65+	22.7%	27.1%

**Q25. Would you say your total annual household income is:**

N=411	<u>Watershed Codes</u>	
	08	09

Q25 Would you say your household income

1=Under \$35,000	40.8%	28.5%
2=\$35,000-\$59,999	23.7%	23.5%
3=\$60,000-\$99,999	12.3%	19.5%
4=\$100,000-\$199,999	4.7%	6.5%
9=No response	18.5%	22.0%

**Watershed Codes: Flint=8, Jackson=9**

**Q26. Your gender:**

N=411	<u>Watershed Codes</u>	
	08	09

Q26 Your gender

1=Male	39.3%	44.0%
2=Femal e	60.7%	56.0%

**Optional: Would you like SEMCOG to keep you informed about environmental and other planning issues in the region?**

N=411	<u>Watershed Codes</u>	
	08	09

Would you like to be kept you informed

1=Yes	44.7%	34.0%
2=No	54.8%	65.0%
9=Don't know	0.5%	1.0%

Section 5:  
**Survey Instrument**

---

## **2004 SEMCOG Regional Water Quality Survey**

1. Do you think the quality of water in lakes, rivers, and streams in the community where you live is:
- |   |  |
|---|--|
| <input type="checkbox"/> (1) Getting much worse     | <input type="checkbox"/> (4) Getting somewhat better |
| <input type="checkbox"/> (2) Getting somewhat worse | <input type="checkbox"/> (5) Getting much better     |
| <input type="checkbox"/> (3) Staying the same       | <input type="checkbox"/> (9) Don't know              |

2. Do you think the way you care for your lawn and home affects the quality of water in lakes and streams in the community where you live?
- |                                  |                                 |   |
|----------------------------------|---------------------------------|---|
| <input type="checkbox"/> (1) Yes | <input type="checkbox"/> (2) No | <input type="checkbox"/> (9) Don't know |
|----------------------------------|---------------------------------|---|

3. In the past 2 years, have you or someone in your household taken action in your home, yard or community to protect our water resources?
- |                                  |                                 |   |
|----------------------------------|---------------------------------|---|
| <input type="checkbox"/> (1) Yes | <input type="checkbox"/> (2) No | <input type="checkbox"/> (9) Don't know |
|----------------------------------|---------------------------------|---|

**If YES: what actions have you or someone in your household taken?**

---

4. Which ONE of the following do you think contributes the MOST pollution to lakes, rivers and streams in the community where you live?
- |  |
|--|
| <input type="checkbox"/> (1) Wastewater treatment plant discharges                                 |
| <input type="checkbox"/> (2) Factories / industrial discharges                                     |
| <input type="checkbox"/> (3) Stormwater (rain water) runoff into storm drains and roadside ditches |
| <input type="checkbox"/> (4) Sewage overflows  |

5. Please indicate your level of agreement with the following statement: "The quality of local streams where I live affects the Great Lakes and Lake St. Clair."
- |  |  |
|--|--|
| <input type="checkbox"/> (1) Strongly agree            | <input type="checkbox"/> (4) Disagree          |
| <input type="checkbox"/> (2) Agree                     | <input type="checkbox"/> (5) Strongly disagree |
| <input type="checkbox"/> (3) Neither agree or disagree | <input type="checkbox"/> (9) Don't know        |

6. Where does stormwater (rain water) go after it enters a storm drain or roadside ditch in your community?
- |  |
|--|
| <input type="checkbox"/> (1) Directly to lakes and streams without treatment     |
| <input type="checkbox"/> (2) To lakes and streams after receiving some treatment |
| <input type="checkbox"/> (3) To a wastewater treatment plant                     |
| <input type="checkbox"/> (9) Don't know  |

7. Which ONE of the following BEST describes the location where you live? (check one)
- |  |  |
|--|--|
| <input type="checkbox"/> (1) I live near a watershed | <input type="checkbox"/> (3) I don't live in a watershed                           |
| <input type="checkbox"/> (2) I live in a watershed   | <input type="checkbox"/> (9) Don't know/I'm not familiar with the term "watershed" |

8. Which activities have you or other members of your household participated in or near lakes and streams in this area during the past year? [check all that apply]
- |   |  |
|---|--|
| <input type="checkbox"/> (1) fishing              | <input type="checkbox"/> (6) swimming  |
| <input type="checkbox"/> (2) boating              | <input type="checkbox"/> (7) hiking/walking  |
| <input type="checkbox"/> (3) canoeing/kayaking    | <input type="checkbox"/> (8) other: _____  |
| <input type="checkbox"/> (3) bird/nature watching | <input type="checkbox"/> (0) I or other members of our household have not participated activities near or in lakes/streams |
| <input type="checkbox"/> (4) picnicking           |  |
| <input type="checkbox"/> (5) biking               |  |

9. **Which of the following road signs have you seen in your community?** (check all that apply)  
 \_\_\_(1) signs identifying rivers  
 \_\_\_(2) signs indicating you are entering a watershed  
 \_\_\_(3) I haven't seen either of these signs in my community
10. **Where does your household typically wash your vehicle(s) during the summer?**  
 \_\_\_(1) At home in the driveway  
 \_\_\_(2) At home on the grass  
 \_\_\_(3) At a carwash  
 \_\_\_(4) Other place: \_\_\_\_\_  
 \_\_\_(5) Don't wash a vehicle
11. **Do you have a septic system at your home?**  
 \_\_\_(1) Yes – answer 11a  
 \_\_\_(2) No - go to 12
- 11a. [If YES] **Has your household had your septic system checked or serviced during the past 3-5 years?**  
 \_\_\_(1) Yes  
 \_\_\_(2) No
12. **Do you or other members of your household usually change motor oil, transmission fluid, or radiator fluid for a vehicle at your home?**  
 \_\_\_(1) Yes  
 \_\_\_(2) No
13. **Where does your household typically dispose of materials, such as old oil/fluids from your vehicle, batteries, pesticides, and other household hazardous wastes?** (check all that apply)  
 \_\_\_(1) On the ground – answer 13a  
 \_\_\_(2) With my regular trash - answer 13a  
 \_\_\_(3) At a scheduled community collection site or facility that accepts these materials – go to 14  
 \_\_\_(4) I keep it in a container at my home – answer 13a  
 \_\_\_(5) Down a storm drain or roadside ditch – answer 13a  
 \_\_\_(6) Other: \_\_\_\_\_
- 13a. **Why doesn't your household typically dispose of your household hazardous waste at a community collection site?**  
 \_\_\_(1) Don't know where one is located  
 \_\_\_(2) Don't have time  
 \_\_\_(3) No sites are located near my home  
 \_\_\_(4) I don't think household hazardous waste facilities are necessary  
 \_\_\_(5) Other: \_\_\_\_\_
14. **Do you or other members of your household typically pick up your dog's waste when you go for a walk?**  
 \_\_\_(1) Yes – go to 14a  
 \_\_\_(2) No, but we HAVE a dog - go to 14a  
 \_\_\_(3) No, because we DO NOT have a dog – go to 15
- 14a. [If you have a dog] **How does your household typically dispose of your dog's waste?**  
 \_\_\_(1) Throw it in the ditch  
 \_\_\_(2) Dispose with my regular trash  
 \_\_\_(3) Bury it in the ground  
 \_\_\_(4) Put it in the street or down a storm drain  
 \_\_\_(5) Do not pick up dog waste  
 \_\_\_(6) Other: \_\_\_\_\_



- 15. What does your household typically do with your grass clippings and/or leaves?** (check all that apply)
- \_\_\_(1) Leave them on the lawn/Mulch into lawn      \_\_\_(4) Curbside pickup by community  
 \_\_\_(2) Compost them in your yard                      \_\_\_(5) Other: \_\_\_\_\_  
 \_\_\_(3) Put in a roadside ditch or near a stream/wetland      \_\_\_(6) Do not have a yard

- 16. Which of the following BEST describes how often your household fertilizes your lawn?**
- \_\_\_(1) 5 or more times per year                      \_\_\_(4) Seldom or never, but I have a lawn  
 \_\_\_(2) 3-4 times per year                              \_\_\_(5) Not applicable – I don't have a lawn  
 \_\_\_(3) 1-2 times per year

- 16a. [If You Use Fertilizer] Which of the following types of fertilizer does your household use?** (check all that apply)
- \_\_\_(1) low phosphorus                                  \_\_\_(4) seasonal variety  
 \_\_\_(2) slow release nitrogen                        \_\_\_(5) other: \_\_\_\_\_  
 \_\_\_(3) weed and feed                                    \_\_\_(6) don't know

- 16b. [If You Use Fertilizer] Which of the following reasons influence the type of fertilizer or pesticide your household uses most?** (check all that apply)
- \_\_\_(1) Previous experience with product      \_\_\_(6) Recommendations from store employees  
 \_\_\_(2) Price    \_\_\_(7) How safe it is for the environment  
 \_\_\_(3) Commercials/product displays            \_\_\_(8) Other: \_\_\_\_\_  
 \_\_\_(4) Recommendations from friends          \_\_\_(9) don't know  
 \_\_\_(5) Articles in newspapers/magazines

- 17. Does your household use a lawn service for fertilizer and/or pesticide applications?**
- \_\_\_(1) Yes – answer 17a                      \_\_\_(2) No – go to 18

- 17a. [If YES] Does your household ask your lawn service to use environmentally friendly/organic products and practices?**
- \_\_\_(1) Yes. The lawn services uses environmentally friendly products and practices on my lawn.  
 \_\_\_(2) Yes. I asked, but the lawn service doesn't offer these services.  
 \_\_\_(3) No. I haven't asked, but will in the future.  
 \_\_\_(4) No. I don't think using environmentally friendly products matter.  
 \_\_\_(9) Don't know.

- 18. Several ways that residents can help reduce pollution of streams and lakes in their community are listed below. Using a 5-point scale where "1" means not willing and "5" means very willing, please indicate how willing would you be to do each of the following by circling the corresponding number below.**

	<u>Not Willing</u>	<u>Very Willing</u>	<u>Not Applicable</u>
(A) Changing you car washing practices (using a car wash, washing your car on the grass, or using less soap). ..	1 .....	2 .....	3.....4.....5 ..... 9
(B) Promptly picking up & disposing of your pet's waste.	1 .....	2 .....	3.....4.....5 ..... 9
(C) Having your septic tank serviced every 3-5 years .....	1 .....	2 .....	3.....4.....5 ..... 9
(D) Sweeping excess fertilizer and grass clippings from paved surfaces back onto lawn.....	1 .....	2 .....	3.....4.....5 ..... 9
(E) Disposing of household hazardous waste, such as motor oil or pesticides, at a community collection day .....	1 .....	2 .....	3.....4.....5 ..... 9
(F) Landscaping your yard with plants native to Michigan	1 .....	2 .....	3.....4.....5 ..... 9
(G) Using a low phosphorus or slow release nitrogen fertilizer on your lawn.....	1 .....	2 .....	3.....4.....5 ..... 9
(H) Changing your lawn watering practices.....	1 .....	2 .....	3.....4.....5 ..... 9

19. Where would you prefer to receive information about what you can do to protect our lakes and streams? (check all that apply)

- (1) Major newspaper                       (5) Television news                       (9) Materials from schools  
 (2) Community newspaper                       (6) Radio                       (10) Environmental groups  
 (3) Municipal newsletter                       (7) Internet                       (11) Other: \_\_\_\_\_  
 (4) Government access TV                       (8) Billboards

20. How many people in your household, counting yourself, are?

- Under age 10: \_\_\_\_\_                      Ages 20-44: \_\_\_\_\_                      Ages 65+: \_\_\_\_\_  
 Ages 10-19: \_\_\_\_\_                      Ages 45-64: \_\_\_\_\_

21. Which person in your household MOST frequently does the activities listed below.

	Adult MALE	Adult FEMALE	Child Age 12-17	Child Under 12	Not Appl/ Nobody
(A) Picks up after your dog .....	1 .....	2 .....	3 .....	4 .....	9 .....
(B) Washes the car .....	1 .....	2 .....	3 .....	4 .....	9 .....
(C) Fertilizes the lawn.....	1 .....	2 .....	3 .....	4 .....	9 .....
(D) Landscaping/gardening.....	1 .....	2 .....	3 .....	4 .....	9 .....
(E) Mows the lawn .....	1 .....	2 .....	3 .....	4 .....	9 .....
(F) Vehicle maintenance.....	1 .....	2 .....	3 .....	4 .....	9 .....
(G) Disposes of household hazardous waste (oil, pesticides, batteries).....	1 .....	2 .....	3 .....	4 .....	9 .....

22. Which of the following best describes your race/ethnicity (check all that apply)?

- (1) Asian/Pacific Islander                       (4) American Indian/Eskimo  
 (2) Black/African American                       (5) Other: \_\_\_\_\_  
 (3) White

23. Are you or any other members of your household of Hispanic, Latino, or other Spanish ancestry?

- (1) Yes                       (2) No

24. What is your age? \_\_\_\_\_ years

25. Would you say your total annual household income is:

- (1) Under \$35,000                       (4) \$100,000-199,000  
 (2) \$35,000 to \$59,999                       (5) more than \$200,000  
 (3) \$60,000 to \$99,999

26. Your gender:     (1) Male                       (2) Female

**Optional: Would you like SEMCOG to keep you informed about environmental and other planning issues in the region?**

- (1) Yes: Your e-mail address: \_\_\_\_\_ Phone number: \_\_\_\_\_  
 (2) No

**This concludes the survey. Thank you for your time!**

Please Return Your Survey in the Envelope Provided to: ETC Institute, 725 W. Frontier Circle, Olathe, KS 66061

Your responses will remain Completely Confidential. The information printed on the sticker to the right will ONLY be used to help identify which areas of the region have concerns about water quality issues. If your address is not correct, please provide the correct information. Thanks.