

DMACS Wave 18 Toplines • November 2 - December 19, 2023

The Detroit Metro Area Communities Study (DMACS) is a panel survey of Detroit residents launched in 2016. The original panel of respondents was drawn from an address-based probability sample of all occupied Detroit households. In subsequent years, the panel has been refreshed through additional address-based sampling. We invited 3,065 previously-enrolled panelists to participate in this survey wave. Surveys were self-administered online or interviewer-administered via telephone between November 2, 2023 and December 19, 2023. We report results for the 2,296 Detroit residents who completed the survey. We obtained an overall response rate of 76% (using AAPOR Response Rate 1).

The below results reflect weighted responses. Survey weights were calculated in two stages. In the first stage, we used the technique of post-stratification to account for differential selection probabilities including oversamples in predominantly Latino block groups and neighborhoods that were targets of the [Strategic Neighborhood Fund](#), a public/private community development initiative. In the second stage, we applied raking to adjust the weights to match the estimated distributions on gender, age, race, education, and income based on the U.S. Census Bureau’s 2022 1-year estimates from the American Community Survey (ACS). Click [here](#) for more on the weighting approach. The margin of sampling error for a random sample survey of this size would be +/- 2.9 percentage points at the 95% confidence level; the actual margin of sampling error varies by statistic due in part to the complex sample design.

Sample Demographics

The below demographics summarize select characteristics of the weighted survey sample.

Gender	Male	42%
	Female	58%
Age	18-35	29%
	35-54	32%
	55-64	16%
	65+	22%
Race/Ethnicity	Non-Hispanic White Alone	12%
	Non-Hispanic Black Alone	75%
	Non-Hispanic Other (including multirace)	6%
	Hispanic	8%
Highest level of school completed	Less than high school	16%
	High school diploma or equivalent	32%
	Some college/Associates degree	33%

College +	19%
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Household income	<\$10,000	16%
	\$10,000-\$29,999	23%
	\$30,000-\$49,999	26%
	\$50,000-\$99,999	20%
	\$100,000+	14%

Survey Results

Block 1: Household Composition, Length of Residence, Housing Status

Next, we have some questions about your current living situation.

1. Besides yourself , are there any other adults (age 18 or older) living in your household? [hhanyoneelse_d18]	Yes	56%
	No	44%
	SKIPPED/MISSING	<1%

IF [hhanyoneelse_d18] is “Yes”

2. Besides yourself , how many adults in each category live in your household? N = 1,188		0	1	2	3	4+	SKIPPED/MISSING
	18 to 64 years old [hhcat_18to64_d18]	9%	46%	26%	11%	5%	3%
	65 years old or older [hhcat_65plus_d18]	65%	23%	4%	<1%	0%	8%

3. Are there any children under age 18 living in your household? [hhcat_child_d18]	Yes	67%
	No	33%
	SKIPPED/MISSING	<1%

IF [hhcat_child_d18] IS “Yes”

4. How many children under the age of 18 currently live in your household?
 [hhcat_under18_d18]
 N = 640

1	45%
2	26%
3	16%
4+	13%
SKIPPED/MISSING	<1%

5. About how long have you lived at your current address?
 [current_res_len_d18]

Less than six months	5%
Six months to 1 year	5%
1 to 5 years	28%
6 to 10 years	19%
11 to 20 years	20%
More than 20 years	25%
SKIPPED/MISSING	0%

6. About how long have you lived in Detroit?
 [city_res_len_d18]

Less than six months	<1%
Six months to 1 year	<1%
1 to 5 years	6%
6 to 10 years	6%
11 to 20 years	9%
More than 20 years	78%
SKIPPED/MISSING	0%

7. Is your current residence....
 [housing_d18]

Owned by you or someone in this household with a mortgage or loan (which could be a home equity loan)	23%
Owned by you or someone in this household free and clear (without a mortgage or loan)	33%
Occupied without payment of rent	4%
Rented	39%

SKIPPED/MISSING	<1%
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Block 2: Health, Social Determinants of Health and Long COVID

Now we would like to ask you some questions about your health and healthcare.

8. In general, how would you rate your health? [self_rate_heath_d18]	Poor	5%
	Fair	27%
	Good	40%
	Very good	21%
	Excellent	8%
	SKIPPED/MISSING	<1%

9. Is there a place where you usually go for medical care? [med_care_place_d18]	Yes	85%
	No	13%
	Don't know	2%
	SKIPPED/MISSING	<1%

IF [med_care_place_d18] IS "Yes"

10. What kind of place do you go most often for medical care? [place_for_care_d18] N = 2,018	Doctor's office	86%
	A VA medical center or VA outpatient clinic	2%
	Emergency Room	2%
	Walk-in clinic, urgent care center, or retail clinic in a pharmacy or grocery store	7%
	Telehealth or telemedicine	1%
	Some other place	2%
	Don't know	1%
	SKIPPED/MISSING	<1%

11. What is the primary health insurance or health plan that you have now?
 [insurance_type_d18]

I don't have health insurance or a health plan	4%
Private health insurance (through a job, school or bought directly)	35%
Medicare	28%
Medicaid, Medical Assistance (MA), Children's Health Insurance Program (CHIP) or kid's state insurance	28%
Military health care (e.g., Tricare)	1%
Indian Health Service	0%
Other	2%
Don't know	3%
SKIPPED/MISSING	<1%

12. How often do you need someone to help you read written information from your doctor or drug store?
 [health_reading_help_d18]

Never	82%
Rarely	10%
Sometimes	6%
Usually	1%
Always	1%
SKIPPED/MISSING	<1%

13. If for any reason you need help with day-to-day activities such as bathing, preparing meals, shopping, managing finances, etc., do you get the help you need?
 [daily_activ_help_d18]

I don't need any help	77%
I could use a little more help	10%
I need a lot more help	3%
I get all the help I need	10%
SKIPPED/MISSING	1%

14. During the **past 12 months**, how often have you waited to get medical care because of cost?
[med_care_delay_cost_d18]

Never	64%
Rarely	12%
Sometimes	11%
Usually	3%
Always	2%
Not applicable – I didn't need medical care in the past 12 months	8%
SKIPPED/MISSING	<1%

Now we would like to ask you some additional questions about your health.

15. Have you ever had COVID-19?
[c3_covid_had_d18]

Yes, I had it once	34%
Yes, I had it more than once	13%
No	46%
Not sure	6%
SKIPPED/MISSING	<1%

IF [c3_covid_had_d18] IS "Yes, I had it once" OR "Yes, I had it more than once"

16. For any time you had COVID, did you experience any COVID symptoms that lasted **longer than a month**?
[c3_covlong_d18]
N = 1,055

Yes	27%
No	58%
Not sure	12%
I didn't have any symptoms when I had COVID	4%
SKIPPED/MISSING	<1%

IF [c3_covlong_d18] IS “Yes”

Please indicate whether you experienced each of these symptoms for **longer than one month** when you had COVID.

N = 302

ITEMS RANDOMIZED, ‘Other’ fixed at the bottom	Yes	No	SKIPPED/ MISSING
17. Changes to taste/smell [c3_covlong_smell_d18]	61%	35%	4%
18. Chest pain [c3_covlong_chest_d18]	38%	59%	3%
19. Difficulty breathing or shortness of breath [c3_covlong_breath_d18]	60%	34%	6%
20. Difficulty concentrating, forgetfulness, or memory problems (sometimes referred to as “brain fog”) [c3_covlong_fog_d18]	60%	37%	3%
21. Dizziness on standing [c3_covlong_dizzy_d18]	47%	48%	5%
22. Fast-beating or pounding heart (also known as heart palpitations) [c3_covlong_heart_d18]	43%	53%	5%
23. Joint or muscle pain [c3_covlong_joint_d18]	71%	26%	4%
24. Tiredness or fatigue [c3_covlong_tired_d18]	85%	13%	2%
25. Unwell after minimal physical activity [c3_covlong_unwell_d18]	57%	38%	5%
26. Other [c3_covlong_other_d18]	25%	62%	12%

27. On average, how many days per week do you engage in moderate to strenuous exercise (like a brisk walk) for at least 30 minutes? [exercise_freq_d18]	0 days	19%
	1 day	10%
	2 days	15%
	3 days	19%

4 days	10%
5 days	13%
6 days	3%
7 days	11%
SKIPPED/MISSING	<1%

Now we would like to ask a standard set of questions asked by health professionals to assess your mental wellbeing.

PROGRAMMING NOTE: Respondents were randomly assigned to two groups which received the same questions, but in different formats. The first group [mh*_v1_d18] was presented in the grid format, and the second group [mh*_v2_d18] was presented in the single-question format.

In the **past 7 days**, how often have you...
(ORDER RANDOMIZED)

N = 1,146	Less than 1 day	1 to 2 days	3 to 4 days	5 to 7 days	SKIPPED/MISSING
28. ...felt nervous, anxious, or on edge? [mh_anxiety_v1_d18]	52%	24%	13%	8%	3%
29. ...not been able to stop or control worrying? [mh_worry_v1_d18]	59%	18%	12%	8%	2%
30. ...felt depressed? [mh_depress_v1_d18]	56%	23%	10%	7%	4%

In the **past 7 days**, how often have you felt nervous, anxious, or on edge?

[mh_anxiety_v2_d18]

N = 1,150

Less than 1 day	48%
1 to 2 days	27%
3 to 4 days	14%
5 to 7 days	11%
SKIPPED/MISSING	<1%

In the **past 7 days**, how often have you not been able to stop or control worrying?

[mh_worry_v2_d18]

N = 1,150

Less than 1 day	58%
1 to 2 days	18%
3 to 4 days	14%
5 to 7 days	9%
SKIPPED/MISSING	1%

In the **past 7 days**, how often have you felt depressed?

[mh_depress_v2_d18]

N = 1,150

Less than 1 day	60%
1 to 2 days	21%
3 to 4 days	11%
5 to 7 days	7%
SKIPPED/MISSING	1%

31. How often do you feel that you lack companionship?

[mh_companionship_d18]

Never	42%
Some of the time	40%
Often	11%
All of the time	7%
SKIPPED/MISSING	<1%

32. How often do you feel left out?

[mh_leftout_d18]

Never	48%
Some of the time	36%
Often	10%
All of the time	4%
SKIPPED/MISSING	1%

33. How often do you feel isolated from others? [mh_isolated_d18]	Never	50%
	Some of the time	35%
	Often	10%
	All of the time	5%
	SKIPPED/MISSING	<1%

Block 3: Transportation

Now we have some questions about transportation.

In the **past 30 days**, how often have you used each of the following to get from place to place? For each, please select "Daily", "A few times a week", "A few times a month", or "Never." If the type of transportation is not available to you, please select "Not available to me."

	Daily	A few times a week	A few times a month	Never	Not available to me	SKIPPED/MISSING
34. Walking [transport_mode_walk_d18]	27%	22%	15%	31%	3%	2%
35. Biking [transport_mode_bike_d18]	2%	5%	11%	66%	14%	2%
36. Riding a motorcycle or moped [transport_mode_motorcycle_d18]	1%	2%	3%	72%	21%	2%
37. Your own personal vehicle (e.g., car, truck, SUV) [transport_mode_owncar_d18]	54%	15%	4%	13%	14%	1%
38. Borrowing the personal vehicle of a friend, family member,	2%	3%	8%	74%	12%	2%

neighbor, coworker, or acquaintance [transport_mode_borrowcar_d18]						
39. Getting a ride from a friend, family member, neighbor, coworker, or acquaintance (including carpooling) [transport_mode_getride_d18]	5%	10%	24%	54%	6%	1%
40. Taking a taxi service or rideshare (e.g., Uber, Lyft) [transport_mode_taxi_d18]	3%	6%	21%	63%	6%	1%
41. Using a rental car or car sharing service (e.g., zipcar, Car2go) [transport_mode_rental_d18]	<1%	2%	5%	81%	10%	1%
42. Taking the bus [transport_mode_bus_d18]	4%	5%	10%	75%	6%	1%
43. Taking the train or subway [transport_mode_train_d18]	<1%	2%	4%	75%	18%	2%
44. Using paratransit (that is, specialized, door-to-door transport service for people with disabilities) [transport_mode_para_d18]	1%	1%	4%	80%	13%	2%

45.	In the past 30 days , how often did you have to reschedule an appointment because of a problem with transportation? [transport_appt_reschedule_d18]	Often	6%
		Sometimes	20%
		Never	74%
		SKIPPED/MISSING	<1%
46.	In the past 30 days , how often did you skip going somewhere because of a problem with transportation? [transport_skip_place_d18]	Often	8%
		Sometimes	22%
		Never	70%
		SKIPPED/MISSING	<1%
47.	In the past 30 days , how often were you not able to leave the house when you wanted to because of a problem with transportation? [transport_leave_house_d18]	Often	8%
		Sometimes	21%
		Never	70%
		SKIPPED/MISSING	<1%
48.	In the past 30 days , how often did you feel bad because you did not have the transportation you needed? [transport_feelbad_d18]	Often	13%
		Sometimes	18%
		Never	69%
		SKIPPED/MISSING	<1%
49.	In the past 30 days , how often did you worry about inconveniencing your friends, family, or neighbors because you needed help with transportation? [transport_worry_inconv_d18]	Often	11%
		Sometimes	19%
		Never	70%
		SKIPPED/MISSING	<1%

50. In the **past 30 days**, how often did problems with transportation affect your relationships with others?

[transport_affect_relation_d18]

Often	6%
Sometimes	15%
Never	79%
SKIPPED/MISSING	<1%

51. In the **past 30 days**, has a lack of reliable transportation kept you from medical appointments, meetings, work or from getting things needed for daily living?

[transport_limit_daily_d18]

Yes	18%
No	82%
SKIPPED/MISSING	<1%

52. In the **past 30 days**, how often were you satisfied with your ability to get around?

[transport_satis_d18]

Often	61%
Sometimes	26%
Never	12%
SKIPPED/MISSING	<1%

53. Can you usually afford the transportation you need?

[transport_afford_d18]

Yes	78%
No	22%
SKIPPED/MISSING	<1%

In the **past 30 days**, have you **had trouble paying** for any of the following? Please select “Yes” or “No” for each. If the item does not apply to you, please select “Not applicable.”

	Yes	No	Not applicable	SKIPPED/ MISSING
54. Gas [afford_gas_d18]	27%	57%	15%	1%
55. Car insurance [afford_veh_insurance_d18]	29%	49%	21%	1%
56. Car registration [afford_veh_registration_d18]	16%	62%	21%	1%
57. Car repairs [afford_veh_repair_d18]	34%	44%	22%	1%
58. Outstanding traffic tickets (e.g., speeding, parking, driving without a license) [afford_traffic_ticket_d18]	12%	52%	35%	1%
59. Paying a friend, family member, or neighbor for a ride [afford_getride_d18]	18%	51%	30%	<1%
60. Taxi service or rideshare (e.g., Uber, Lyft) [afford_taxi_d18]	17%	52%	31%	1%
61. Rental car or car sharing service (e.g., zipcar, Car2go) [afford_rental_d18]	9%	47%	44%	1%
62. Bus fare [afford_bus_d18]	10%	52%	37%	1%
63. Train or subway fare [afford_train_d18]	3%	46%	51%	1%

64. Some people have a valid driver's license. Others do not. Do you have a valid driver's license?
[license_d18]

Yes	75%
No	24%
SKIPPED/MISSING	1%

65. All together, how many vehicles are owned, leased, or available for regular use by the people who currently live in your household? Please be sure to include motorcycles and mopeds.

[hh_vehicles_d18]

0	20%
1	42%
2	23%
3	8%
4	3%
5	2%
6	<1%
7	<1%
8	<1%
9	0%
10 +	<1%
SKIPPED/MISSING	2%

IF [hh_vehicles_d18] IS "One (1)"

66. Can you rely on this vehicle to get you to school, work, or other places?

[vehicle_rely_d18]

N = 1,013

Yes	86%
No	14%
SKIPPED/MISSING	<1%

IF [hh_vehicles_d18] IS >1

67. Thinking about the vehicle you use most of the time, can you rely on this vehicle to get you to school, work, or other places?

[vehicle_usual_rely_d18]

N = 757

Yes	94%
No	5%
SKIPPED/MISSING	<1%

IF [hh_vehicles_d18] IS "One (1)"

68. Some people have car insurance for their vehicles while others do not. Is this vehicle currently covered by car insurance? [vehicle_insur_d18] N = 1,013	Yes	81%
	No	19%
	SKIPPED/MISSING	1%

IF [hh_vehicles_d18] IS >1

69. Some people have car insurance for their vehicles while others do not. Thinking about the vehicle you use most of the time, is it currently covered by car insurance? [vehicle_usual_insur_d18] N = 757	Yes	87%
	No	12%
	SKIPPED/MISSING	1%

Block 4: Grocery Shopping Routines

Now we have some questions about how you or other members of your household do your shopping.

70. How satisfied are you with the availability of stores nearby where you can shop regularly? [nb_satis_stores_d18]	Very dissatisfied	16%
	Somewhat dissatisfied	19%
	Neither satisfied nor dissatisfied	12%
	Somewhat satisfied	29%
	Very satisfied	23%
	Don't know	2%
	SKIPPED/MISSING	<1%

71. In the past year , have you or any members of your household paid to have pre-made meals delivered to your home using apps like DoorDash or UberEats? [food_delivery_d18]	Yes	41%
	No	55%
	Don't know	4%
	SKIPPED/MISSING	<1%

72. In the past year , have you or any member of your household shopped for groceries in-person at a store? By groceries we mean food and other household items. [groc_inperson_d18]	Yes	91%
	No	7%
	Don't know	2%
	SKIPPED/MISSING	<1%

73. In the past year , have you or any member of your household shopped online for groceries using an app like Instacart, Amazon Prime, Shipt, or directly from a grocery store, and had it delivered to your home (not including pre-made meal delivery like DoorDash)? [groc_delivery_d18]	Yes	38%
	No	59%
	Don't know	3%
	SKIPPED/MISSING	<1%

IF [groc_delivery_d18] IS "Yes"

Have any of the following reasons **limited** your use of grocery delivery services?

(ORDER RANDOMIZED, "Other" FIXED AS LAST RESPONSE OPTION)

N = 832	Yes	No	SKIPPED/MISSING
74. Do not trust the quality of items selected [groc_deliv_quality_d18]	42%	55%	3%
75. Difficulty using grocery delivery websites and apps [groc_deliv_apps_d18]	13%	85%	3%
76. Cost [groc_deliv_cost_d18]	50%	49%	2%
77. Other reason [groc_deliv_other_d18]	10%	83%	7%

IF [groc_delivery_d18] IS “No”

Have any of the following reasons contributed to your decision to not use grocery delivery services?

(ORDER RANDOMIZED, “Other” FIXED AS LAST RESPONSE OPTION)

N = 1,422		Yes	No	SKIPPED/ MISSING
78.	Do not trust the quality of items selected [groc_nodeliv_quality_d18]	43%	54%	4%
79.	Difficulty using grocery delivery websites and apps [groc_nodeliv_apps_d18]	17%	78%	5%
80.	Cost [groc_nodeliv_cost_d18]	40%	57%	4%
81.	Other reason [groc_nodeliv_other_d18]	25%	69%	7%

82. In the **past year**, have you or any member of your household received food assistance from the Supplemental Nutrition Assistance Program (SNAP), Food Stamps, or an EBT/Bridge Card? This includes Pandemic EBT, a form of temporary assistance during the COVID-19 pandemic.
[fin_pubassist_snap_d18]

Yes	47%
No	50%
Don't know	3%
SKIPPED/MISSING	1%

IF [fin_pubassist_snap_d18] IS “Yes”

Michigan residents who receive food assistance from the Supplemental Nutrition Assistance Program (SNAP) are able to buy food online from select retailers (e.g., using your EBT card to buy groceries from Instacart).

83. Prior to taking this survey, were you aware that you could use SNAP benefits to order food online?
[snap_aware_d18]
N = 1,064

Yes	61%
No	39%
SKIPPED/MISSING	<1%

IF [fin_pubassist_snap_d18] IS “Yes”

84. In the **past year**, have you or any member of your household used SNAP benefits to pay to have groceries delivered to your home (e.g., using your EBT card to buy groceries from Instacart)?
 [snap_delivery_d18]
 N = 1,064

Yes	27%
No	70%
Don't Know	3%
SKIPPED/MISSING	0%

Block 5: Financial Precarity

85. In the **past 12 months**, how often did you cut the size of your meals or skip meals because there wasn't enough money for food?
 [cut_meal_cost_d18]

Never	51%
Rarely	16%
Sometimes	25%
Usually	5%
Always	3%
SKIPPED/MISSING	<1%

IF [housing_d18] IS “Owned by you or someone in this household with a mortgage or loan (which could be a home equity loan)” OR “Rented”

86. In the **past 12 months**, how often have you been worried about not being able to pay your rent or mortgage?
 [housing_worry_cost_d18]
 N = 1,341

Never	46%
Rarely	16%
Sometimes	24%
Usually	5%
Always	9%
SKIPPED/MISSING	<1%

87. In the **past 12 months**, how often has your household been late on monthly housing payments (mortgage or rent) or has only made a partial housing payment?
 [freq_late_housing_d18]

Never	52%
1-2 times	13%
3-4 times	10%
5-6 times	4%
7 or more times	3%
My household does not make any housing payments	18%
SKIPPED/MISSING	1%

88. Do you or anyone else in your household have a checking or savings account now?
 [banked_d18]

Yes	74%
No	19%
Don't know	6%
SKIPPED/MISSING	1%

89. Do you or anyone else in your household have a credit card now?
 [banked_creditcard_d18]

Yes	62%
No	31%
Don't know	6%
SKIPPED/MISSING	1%

Block 6: Perceptions of Inequality

Now we are going to ask you some questions about economic opportunity in Detroit.

90. Based on your experience, do you think the difference in incomes between rich people and poor people in Detroit today is larger, smaller, or about the same as it was 20 years ago?
[\[income_gap_20yrs_d18\]](#)

Much smaller	5%
Somewhat smaller	6%
About the same	14%
Somewhat larger	25%
Much larger	33%
Don't know	18%
SKIPPED/MISSING	<1%

91. How much opportunity do you think there is in the **City of Detroit** today for the average person to get ahead economically?
[\[finopportunity_d18\]](#)

None at all	10%
A little	33%
A moderate amount	36%
A great deal	10%
Don't know	12%
SKIPPED/MISSING	<1%

92. Compared to your parents, do you think it is easier, harder, or neither easier nor harder for you to move up the income ladder?
[\[income_ladder_d18\]](#)

A great deal harder	22%
Somewhat harder	25%
Neither easier nor harder	16%
Somewhat easier	21%
A great deal easier	7%
Don't know	9%
SKIPPED/MISSING	<1%

93. In general, do you think people’s ability to **improve** their financial well-being is now better, worse, or the same as it was 20 years ago?

[finwellbeing_d18]

A great deal worse	19%
Somewhat worse	24%
About the same as 20 years ago	9%
Somewhat better	30%
A great deal better	8%
Don’t know	10%
SKIPPED/MISSING	<1%

Next we would like to know how much you agree or disagree with the following statements about income inequality.

Note: The following sets of questions were randomized so half of respondents got the questions about metro Detroit and half got the questions about the City of Detroit.

94. Differences in income in **metro Detroit** are too large.

[diff_income_metro_d18]

N = 1,150

Strongly disagree	6%
Somewhat disagree	9%
Neither disagree nor agree	31%
Somewhat agree	31%
Strongly agree	22%
SKIPPED/MISSING	<1%

95. Large differences in income are necessary for **metro Detroit’s** prosperity.

[large_inc_prosperity_metro_d18]

N = 1,150

Strongly disagree	28%
Somewhat disagree	16%
Neither disagree nor agree	32%
Somewhat agree	17%
Strongly agree	7%
SKIPPED/MISSING	1%

96. Differences in income in the **City of Detroit** are too large.
 [diff_income_city_d18]
 N = 1,144

Strongly disagree	7%
Somewhat disagree	14%
Neither disagree nor agree	31%
Somewhat agree	29%
Strongly agree	19%
SKIPPED/MISSING	1%

97. Large differences in income are necessary for the **City of Detroit's** prosperity.
 [large_inc_prosperity_city_d18]
 N = 1,144

Strongly disagree	26%
Somewhat disagree	18%
Neither disagree nor agree	31%
Somewhat agree	16%
Strongly agree	9%
SKIPPED/MISSING	<1%

98. To what extent do you agree or disagree with the following statement:

 It is the responsibility of the government to reduce differences in income between people with high incomes and those with low incomes.
 [gov_reduce_inc_gap_d18]

Strongly disagree	11%
Somewhat disagree	12%
Neither disagree nor agree	29%
Somewhat agree	30%
Strongly agree	17%
SKIPPED/MISSING	2%

Block 7: Technology Adoption

Now we have some questions about new technologies.

To what extent do you agree or disagree with the following statements?

	Strongly disagree	Somewhat disagree	Neither disagree nor agree	Somewhat agree	Strongly agree	SKIPPED/MISSING
99. I usually try new products before others do. [tech_pref_new_d18]	21%	19%	32%	21%	6%	1%
100. I prefer my tried and trusted products. [tech_pref_used_d18]	4%	6%	22%	43%	24%	1%
101. I like being able to tell others about new products I have tried. [tech_tell_experience_d18]	6%	8%	27%	40%	18%	1%
102. I wait until I hear about others' experience before I try new products. [tech_hear_experience_d18]	10%	17%	30%	32%	10%	1%

103. Detroit has recently made significant investments in encouraging technology innovation. How much do you feel these investments will **positively affect** you and your community?
[detroit_tech_invest_d18]

Not at all	16%
Somewhat	38%
A great deal	24%
Don't know	21%
SKIPPED/MISSING	<1%

Now we have some questions about drone technology for commercial purposes. By drones we mean unmanned aircraft controlled either by a human or a computer. Drones are increasingly being used for commercial tasks like delivery, first responder flights in emergencies, and aerial photography.

104. How familiar are you with the use of drone technology for commercial purposes?
[drone_familiar_d18]

Very unfamiliar	28%
Somewhat unfamiliar	21%
Somewhat familiar	40%
Very familiar	11%
SKIPPED/MISSING	<1%

105. Some people think drones can positively benefit communities, while others worry about negative impacts. Which position is closer to how you feel about drones? [drone_impact_d18]

I think the impacts of drones are more positive than negative	34%
I think the impacts of drones are more negative than positive.	22%
Don't know	44%
SKIPPED/MISSING	1%

Block 8: Employment

Now we are going to ask about your employment.

106. In the **past month**, did you do any work for either pay or profit?
[anywork_d18]

Yes	52%
No	48%
SKIPPED/MISSING	1%

IF [anywork_d18] IS "No"

107. In the **past month**, have you received unemployment Insurance (UI) benefits?
[fin_pubassist_ui_month_d18]
N = 1,167

Yes	2%
No	98%
SKIPPED/MISSING	<1%

IF [anywork_d18] IS "No"

Now we would like to ask some questions about why you did not work during the **past month**. Did any of the following contribute to your not working?

[ORDER RANDOMIZED, "Other" FIXED AS LAST RESPONSE OPTION]

N = 1,167	Yes	No	Don't know	SKIPPED/MISSING
108. I am retired [lf_nowork_retired_d18]	43%	49%	4%	4%
109. I am going to school or training [lf_nowork_student_d18]	8%	85%	5%	2%
110. I have health/medical limitations or am disabled [lf_nowork_disabled_d18]	45%	48%	6%	2%
111. I do not want to work for pay at this time [lf_nowork_choice_d18]	17%	69%	13%	2%
112. I do not work due to family/personal obligations or am a homemaker [lf_nowork_homemaker_d18]	14%	77%	7%	2%
113. I lost my job, have been laid off, or am otherwise out of work [lf_nowork_layoff_d18]	16%	76%	6%	1%
114. Other [lf_nowork_other_d18]	8%	79%	11%	1%

IF [lf_nowork_*_d18] IS GREATER THAN OR EQUAL TO 2 "Yes" RESPONSES

115. Among the several reasons you selected for not working during the past month , please tell us which is the <u>main</u> reason for not working. [lf_nowork_primary_d18] N = 578	[IF [lf_nowork_disabled_d18] IS "Yes"] I have health/medical limitations or am disabled	44%
	[IF [lf_nowork_retired_d18] IS "Yes"] I am retired	28%
	[IF [lf_nowork_layoff_d18] IS "Yes"] I have lost my job, been laid off, or am otherwise out of work	8%
	[IF [lf_nowork_student_d18] IS "Yes"] I am going to school or training	3%
	[IF [lf_nowork_homemaker_d18] IS "Yes"]	8%

I don't work due to family/personal obligations or am a homemaker	
[IF [lf_nowork_choice_d18] IS "Yes"] I did not want to work for pay at this time	2%
[IF [nowork_other_d18] IS Yes"] Other	3%
SKIPPED/MISSING	4%

116. Have you actively searched for a new job in the **past month**?
[jobsearch_cur_d18]

Yes	26%
No	58%
Not applicable	15%
SKIPPED/MISSING	1%

117. Current employment status:
[empcat_d18]*

Currently employed	52%
Currently unemployed	12%
Currently out of labor force	36%
SKIPPED/MISSING	1%

*[empcat_d18] is a constructed variable based on responses to [anywork_d18], [fin_pubassist_ui_month_d18], [notworking_return_d18], [lf_nowork_*_d18], [lf_nowork_primary_d18] and [jobsearch_cur_d18].

IF [anywork_d18] IS "No"

118. How likely do you think it is that you will work for pay or profit in the **next month**?
[notworking_return_d18]
N = 1,167

Very likely	8%
Somewhat likely	13%
Somewhat unlikely	9%
Very unlikely	39%
Not applicable	31%
SKIPPED/MISSING	<1%

Block 9: Demographics and Background Characteristics

In the next section, we have some questions about your background.

119. Do you speak a language other than English at home? [language_d18]	Yes	12%
	No	86%
	Prefer not to answer	2%
	SKIPPED/MISSING	<1%

120. Were you born in the United States or a U.S. territory? [born_us_d18]	Yes, I was born in one of the 50 U.S. states	94%
	Yes, I was born in a U.S. territory (e.g., Puerto Rico, Guam, U.S. Virgin Islands)	<1%
	No	5%
	SKIPPED/MISSING	1%

121. What is your gender? [gender_d18]	Man	41%
	Woman	56%
	Trans woman	<1%
	Trans man	<1%
	Nonbinary, genderqueer, or genderfluid	1%
	I use a different term to describe my gender	0%
	Prefer not to answer	2%
	SKIPPED/MISSING	<1%

122. Which of the following best describes how you think of yourself?
 [sexuality_d18]

Gay	3%
Lesbian	1%
Straight (that is, not gay, lesbian, bisexual, or other)	85%
Bisexual	4%
I use a different term to describe myself	1%
Prefer not to answer	5%
SKIPPED/MISSING	1%

123. Are you of Hispanic, Latino, or Spanish origin, such as Mexican, Puerto Rican or Cuban?
 [hisp_d18]

Yes	7%
No	89%
Prefer not to answer	3%
SKIPPED/MISSING	<1%

124. Are you of Arab, Persian, or Middle Eastern descent?
 [mideastern_d18]

Yes	2%
No	94%
Prefer not to answer	3%
SKIPPED/MISSING	1%

125. Which of the following best describes your race? Please select all that apply

American Indian or Alaska Native [race_native_d18]	2%
Asian or Asian American [race_asian_d18]	2%
Black or African American [race_black_d18]	74%
Native Hawaiian or Other Pacific Islander [race_pacisl_d18]	<1%
White [race_white_d18]	17%
Other [race_other_d18]	4%
Prefer not to answer [race_noanswer_d18]	6%
SKIPPED/MISSING	1%

126. What is the highest degree or level of school you have completed?
[educ_d18]

No formal education	3%
Some education but did not graduate from high school or receive a GED	13%
High school diploma or GED	32%
Some college, no degree	24%
Associate's degree (for example, AA or AS)	9%
Bachelor's degree (for example, BA, BS, or AB)	11%
Graduate degree (for example, Master's degree or doctorate)	8%
SKIPPED/MISSING	<1%

IF [educ_d18] IS “Some college, no degree” or “Some education but did not graduate from high school or receive a GED”

Please indicate whether each of the following was a reason that contributed to you not finishing high school or college.

[ORDER RANDOMIZED, “Other” FIXED AS LAST RESPONSE OPTION] N = 743	Yes	No	Don’t know	SKIPPED/ MISSING
127. The program was too hard [no_hs_hard_d18]	7%	72%	16%	5%
128. I did not have enough time/I had conflicting commitments [no_hs_time_d18]	40%	44%	10%	6%
129. I had concerns about job placement/career outcomes [no_hs_job_d18]	16%	70%	9%	6%
130. I faced administrative/bureaucratic issues [no_hs_admin_d18]	9%	76%	9%	7%
131. It was too expensive/I had to work instead [no_hs_cost_d18]	40%	48%	7%	5%
132. Other [no_hs_other_d18]	23%	47%	15%	14%

133. In the past **5 years**, have you participated in any non-degree training programs, such as a tech bootcamp or apprenticeship, for the purpose of earning a certification or credential?
[trainingprog_d18]

Yes, I participated in at least one non-degree training program	15%
No, I wanted to participate in a non-degree training program but was not able to	21%
No, I did not want to participate in a non-degree training program	62%
SKIPPED/MISSING	2%

IF [trainingprog_d18] IS “Yes, I participated in at least one non-degree training program” OR “No, I wanted to participate in a non-degree training program but was not able to”

Which of the following factors prevented or limited your participation in non-degree training programs?

N = 784	Yes	No	SKIPPED/ MISSING
134. Was not able to take time off time from work [trainingprog_no_timeoff_d18]	34%	61%	5%
135. Could not afford to take time off from work [trainingprog_no_unpaid_d18]	41%	53%	5%
136. Lack of transportation [trainingprog_no_transit_d18]	20%	75%	5%
137. Lack of childcare [trainingprog_no_childcare_d18]	17%	77%	6%
138. Cost of participation (e.g., registration fees) [trainingprog_no_costs_d18]	40%	55%	5%
139. Lack of stable housing [trainingprog_no_housing_d18]	14%	79%	7%
140. Other [trainingprog_no_other_d18]	11%	79%	10%

141. Are you now married, widowed, divorced, separated or never married?
[marital_d18]

Now married	25%
Widowed	7%
Divorced	12%
Separated	3%
Never married	52%
SKIPPED/MISSING	1%

The next questions are about the total income of your household for the past 12 months. Please include your income plus the income of all members living in your household (including cohabitating partners and armed forces members living at home). Please count income before taxes and from all sources (such as wages, salaries, tips, net income from a business, interest, dividends, child support, alimony, and social security, public assistance, pensions, or retirement benefits).

142. Was your total HOUSEHOLD income in the past 12 months . . . [income_1_d18]	Below \$35,000	44%
	\$35,000 or more	53%
	SKIPPED/MISSING	3%

IF [income_1_d18] IS "Below \$35,000"

143. We would like to get a better estimate of your total HOUSEHOLD income in the past 12 months before taxes. Was it... [income_2_d18] N = 1,193	Less than \$5,000	23%
	\$5,000 to \$9,999	11%
	\$10,000 to \$14,999	18%
	\$15,000 to \$19,999	12%
	\$20,000 to \$24,999	10%
	\$25,000 to \$29,999	11%
	\$30,000 to \$34,999	13%
	SKIPPED/MISSING	3%

IF [income_1_d18] IS "\$35,000 or more"

144. We would like to get a better estimate of your total HOUSEHOLD income in the past 12 months before taxes. Was it... [income_3_d18] N = 1,025	\$35,000 to \$39,999	19%
	\$40,000 to \$49,999	18%
	\$50,000 to \$59,999	13%
	\$60,000 to \$74,999	13%
	\$75,000 to \$99,999	10%
	\$100,000 to \$124,999	5%

\$125,000 to \$149,999	3%
\$150,000 or more	18%
SKIPPED/MISSING	2%

Block 10: Survey Closing

145. I completed this survey...
[surv_mode_d18]

On a computer (laptop or desktop)	16%
On a mobile device (e.g., cell phone or tablet)	73%
On the phone with a DMACS interviewer	10%
SKIPPED/MISSING	2%