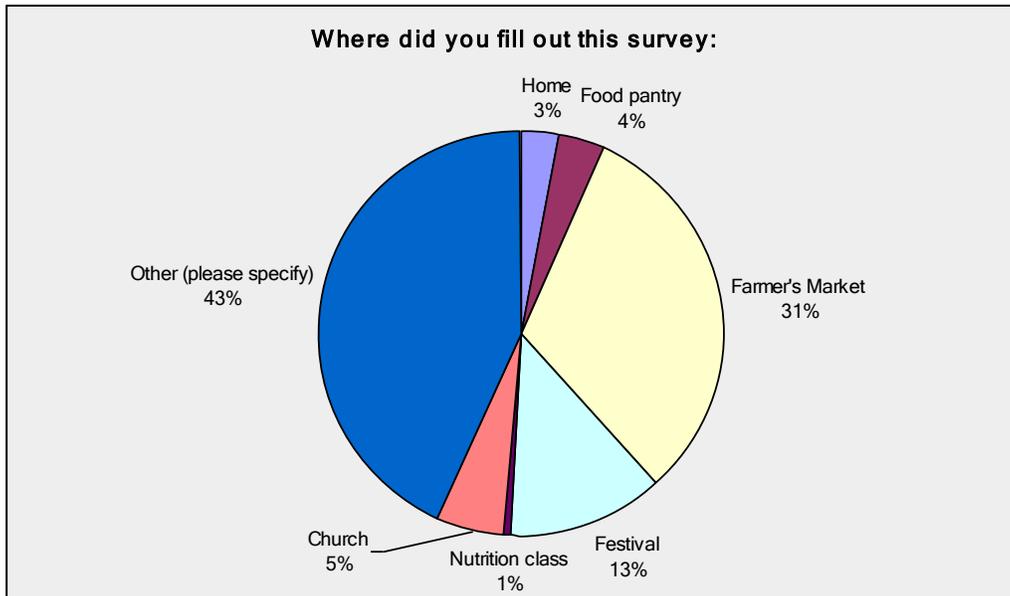


Appendix B: Charts and Tables



“Other” responses numbering over ten responses:

Southside Community Center/Coalition/SSCC	130	27%
Allen Neighborhood Center	73	15%
VOA/ Homeless Shelter	63	13%
Clinic/Healing Hands Clinic/Dr Que's Office	57	12%
Northwest Initiative	56	11%
Fair/Ingham County Fair/Fair Ground	24	5%
Work	22	5%
Capitol Commons (Senior/Low Income Housing)	15	3%
Ingham Fair	14	3%
Neighborhood Picnic	13	3%
Block party	10	2%
Juneteenth Celebration	10	2%
Total	487	100%

Sampling of “Other” responses under 10: bread basket, city hall, meeting, phone, picnic, senior group and “touch a truck” event.

Gender

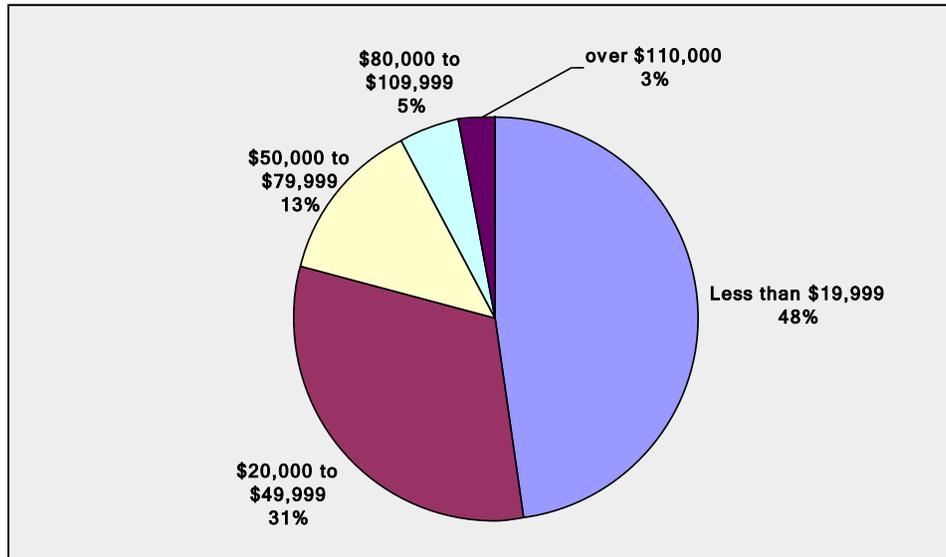
Of the 86% (1,491) of survey-takers who report gender, 65% are female and 35% are male.

Income

Of the 1,467 survey-takers who report their household income from all sources, the largest group is households with income under \$19,999, at 48%.

Appendix B: Charts and Tables

What is your annual household income from all sources: (Pre-tax/pre-deduction income from all jobs and self-employment, social security, federal aid, public assistance, welfare, retirement and pension payments, disability, VA payment, unemployment, child support and /or alimony)?



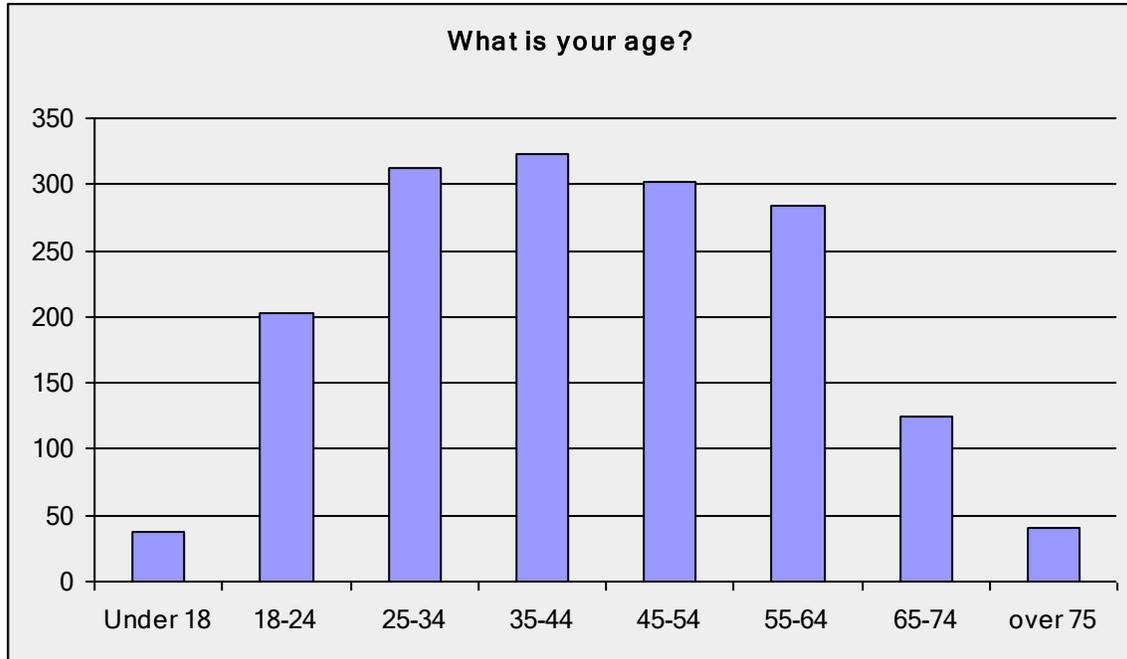
Across all race groups, other than Asian/Asian American, most survey respondents report income under \$19,999. A greater portion of White/Caucasian respondents report income between \$50,000 and \$109,999, compared to other race groups.

	Asian/Asian-American	Black/African American	Hispanic/Latino or Spanish Origin	White/Caucasian	Two or more races/ethnicity	Response Totals
Less than \$19,999	38.9% (14)	53.6% (231)	47.1% (48)	43.1% (347)	56.1% (37)	47.0% (666)
\$20,000 to \$49,999	44.4% (16)	27.8% (120)	35.3% (36)	33.0% (266)	34.8% (23)	31.9% (452)
\$50,000 to \$79,999	13.9% (5)	11.1% (48)	12.7% (13)	15.5% (125)	4.5% (3)	13.5% (191)
\$80,000 to \$109,999	2.8% (1)	4.6% (20)	3.9% (4)	6.0% (48)	0.0% (0)	5.2% (73)
over \$110,000	0.0% (0)	2.8% (12)	1.0% (1)	2.7% (22)	4.5% (3)	2.7% (38)
answered question	36	431	102	805	66	1,417

Age

Of the 1,625 survey-takers who report their age, the largest group is age 35-44.

Appendix B: Charts and Tables



Race

1,642 survey-takers reported their race. A small portion of these the largest group is White/Caucasian (880). Compared to City of Lansing demographics from the 2000 Census, a higher percentage of total survey respondents come from the following groups: American Indian/Alaska Native (3% vs 0.001%) and Black/African American (30% vs 20%). A lower percentage of total survey respondents, compared to overall city demographics, come from these groups: Hispanic/Latino or Spanish Origin (7% vs 11%) and White/Caucasian (53% vs 61%).

How would you describe your race/ethnicity?

	2011 Hot Weather Survey		2000 Census City of Lansing	
American Indian/Alaska Native	45	3%	184	0%
Asian/Asian-American	40	2%	3563	3%
Black/African American	494	30%	22445	20%
Hispanic/Latino or Spanish Origin	118	7%	12307	11%
Native Hawaiian/Other Pacific Islander	4	0%	104	0%
White/Caucasian	880	53%	68960	61%
Two or more races/ethnicity	72	4%	5825	5%
Total	1653	100%	113388	100%

Other responses:

AFRICAIN AMERIAN / INDIAN	GERMAN/IRISH/NATIVE AMERICAN
African (2)	Human (4)
American	INDIA
AMERICAN INDIAN - AFRICAN AMERICAN	irish american (2)
American mongrel	Italian
arabic	Jewish
BLACK	jewish. hebrew and french
Black/ Hispanic	lebanese
BLACK/NATIVE INDIAN	mexican american (2)

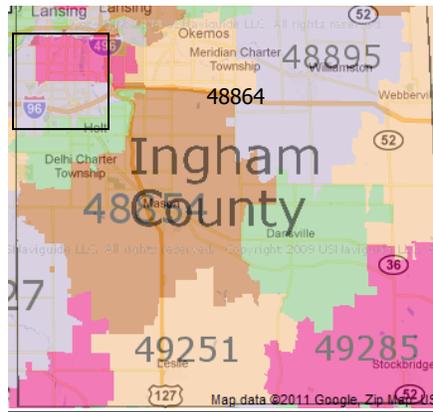
Appendix B: Charts and Tables

Black/white	Middle Eastern
chek	MIX WITH INDIAN
Citizen of the World	mixed family (2)
CMETE	MIXED/ BLACK & WHITE
Fair	MULTRACIAL
German, French, Jewish	PERSON
German, french, spanish, polish, italian, black and three kinds of indian	White/European
	xicano

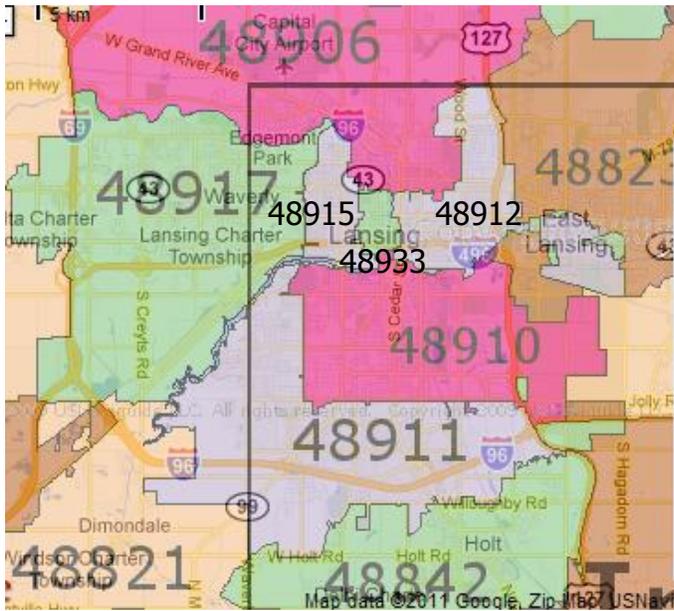
Residence

Ninety-four percent (94%) of the 1,620 respondents who provide their zip code report living in one of 14 zip codes.

Zip Code	Number	Percent
48911	350	23%
48910	256	17%
48912	236	15%
48906	139	9%
48915	128	8%
48823	88	6%
48917	69	5%
48933	52	3%
48842	37	2%
48864	24	2%
48854	18	1%
48821	11	1%
48895	10	1%
48840	9	1%
	1427	100%

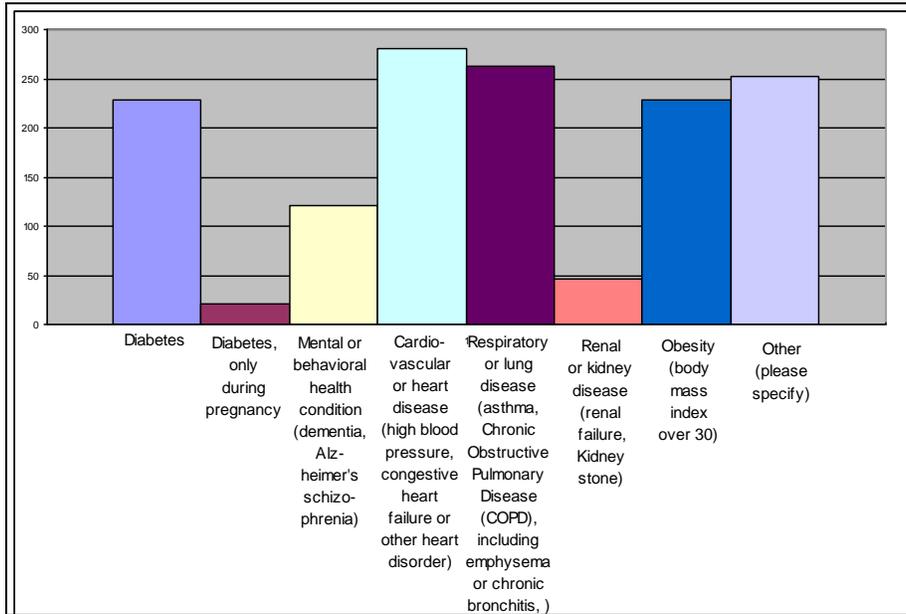


Lansing



Appendix B: Charts and Tables

Half of survey takers (864 of 1,731) report being diagnosed with one or more health conditions.
 Have you ever been diagnosed with any of the following conditions?



Some of the Other responses are: asthma, MS, Hepatitis C and seizures. (The most common “other” responses were No” or None.)

Ability to obtain essentials such as food, housing, running water, electricity and medicine
 Across race, the most common response is ‘Always’. For all essentials, White/Caucasians reporting ‘Always’ is greater than Black/African American and Hispanic/Latino reporting ‘Always’.

How often are you able to get essentials?
 Comparison of percentages reporting ‘Always’ by race, sorted by largest high-low difference.

	Asian/ Asian- American	Black/ African American	Hispanic/ Latino or Spanish Origin	White/ Caucasian	Two or more race/ ethnicities	high-low difference
Running Water	81.1%	76.9%	72.5%	86.7%	85.7%	14%
Electricity	83.8%	75.4%	75.5%	83.4%	87.1%	12%
Housing	80.6%	71.3%	73.4%	82.5%	81.4%	11%
Medicine	58.1%	58.7%	58.8%	68.7%	62.5%	11%
Food	70.3%	64.9%	64.2%	72.6%	67.1%	8%

Appendix B: Charts and Tables

How often are you able to get essentials?

Food:

	Asian/Asian-American	Black/African American	Hispanic/Latino or Spanish Origin	White/Caucasian	Two or more races/ethnicity	Response Totals
Always	70.3% (26)	64.9% (299)	64.2% (70)	72.6% (615)	67.1% (47)	69.4% (1,041)
Most of the time	27.0% (10)	31.0% (143)	32.1% (35)	25.6% (217)	30.0% (21)	27.9% (418)
Rarely	2.7% (1)	4.3% (20)	5.5% (6)	1.8% (15)	1.4% (1)	2.7% (41)
Never	0.0% (0)	0.4% (2)	0.0% (0)	0.2% (2)	1.4% (1)	0.3% (5)
answered question	37	461	109	847	70	1,499

Housing

	Asian/Asian-American	Black/African American	Hispanic/Latino or Spanish Origin	White/Caucasian	Two or more races/ethnicity	Response Totals
Always	80.6% (29)	71.3% (320)	73.4% (80)	82.5% (686)	81.4% (57)	78.5% (1,154)
Most of the time	16.7% (6)	20.5% (92)	20.2% (22)	14.5% (121)	17.1% (12)	16.9% (248)
Rarely	2.8% (1)	6.0% (27)	6.4% (7)	2.4% (20)	0.0% (0)	3.7% (54)
Never	0.0% (0)	2.4% (11)	0.9% (1)	0.7% (6)	1.4% (1)	1.2% (18)
answered question	36	449	109	832	70	1,471

Running Water

	Asian/Asian-American	Black/African American	Hispanic/Latino or Spanish Origin	White/Caucasian	Two or more races/ethnicity	Response Totals
Always	81.1% (30)	76.9% (346)	72.5% (79)	86.7% (728)	85.7% (60)	82.7% (1,225)
Most of the time	13.5% (5)	20.4% (92)	23.9% (26)	12.0% (101)	12.9% (9)	15.3% (227)
Rarely	5.4% (2)	2.0% (9)	3.7% (4)	1.1% (9)	0.0% (0)	1.6% (24)
Never	0.0% (0)	0.9% (4)	0.9% (1)	0.4% (3)	1.4% (1)	0.6% (9)
answered question	37	450	109	840	70	1,482

Appendix B: Charts and Tables

Electricity

	Asian/Asian-American	Black/African American	Hispanic/Latino or Spanish Origin	White/Caucasian	Two or more races/ethnicity	Response Totals
Always	83.8% (31)	75.4% (338)	75.5% (83)	83.4% (700)	87.1% (61)	80.8% (1,195)
Most of the time	16.2% (6)	21.4% (96)	20.0% (22)	13.9% (117)	10.0% (7)	16.4% (242)
Rarely	0.0% (0)	2.7% (12)	4.5% (5)	2.4% (20)	1.4% (1)	2.5% (37)
Never	0.0% (0)	1.6% (7)	1.8% (2)	0.6% (5)	1.4% (1)	0.9% (14)
answered question	37	448	110	839	70	1,479

Medicine

	Asian/Asian-American	Black/African American	Hispanic/Latino or Spanish Origin	White/Caucasian	Two or more races/ethnicity	Response Totals
Always	58.1% (18)	58.7% (240)	58.8% (57)	68.7% (524)	62.5% (40)	64.9% (869)
Most of the time	25.8% (8)	28.9% (118)	25.8% (25)	23.9% (182)	32.8% (21)	25.4% (341)
Rarely	16.1% (5)	9.5% (39)	11.3% (11)	6.0% (46)	0.0% (0)	7.4% (99)
Never	0.0% (0)	3.2% (13)	7.2% (7)	1.6% (12)	4.7% (3)	2.5% (34)
answered question	31	409	97	763	64	1,340

Impacts of extremely hot weather on residents

When asked how extremely hot weather in Ingham County is changing various factors in peoples' lives, the greatest number of 'Increasing' responses is for Utility bills. Across all income groups, 73% of respondents report increasing utility bills as an impact of extremely hot weather in Ingham County.

Change in Utility Bills by Income Group:

	Less than \$19,999	\$20,000 to \$49,999	\$50,000 to \$79,999	\$80,000 to \$109,999	over \$110,000	Response Totals
Increasing	63.5% (450)	81.7% (388)	81.9% (163)	78.2% (61)	66.7% (28)	72.5% (1,087)
Decreasing	4.2% (30)	4.4% (21)	2.0% (4)	5.1% (4)	7.1% (3)	4.1% (62)
No Change	20.0% (142)	10.3% (49)	13.6% (27)	12.8% (10)	14.3% (6)	15.6% (234)
DK/not sure	12.6% (89)	3.8% (18)	2.5% (5)	3.8% (3)	14.3% (6)	8.1% (121)
answered question	709	475	199	78	42	1,500

Appendix B: Charts and Tables

A majority of respondents report “no change” in:

- Medical bills
- Hospital use/hospitalization
- Illnesses
- Difficulty getting around town
- Missed work days
- Ability to obtain food

Sixty-six percent to 93% of respondents with income over \$20,000 report “no change” in these factors, compared to 48-74% of respondents with income under \$19,999.

Change in Medical Bills by Income Group:

	Less than \$19,999	\$20,000 to \$49,999	\$50,000 to \$79,999	\$80,000 to \$109,999	over \$110,000	Response Totals
Increasing	23.6% (164)	22.1% (104)	14.2% (28)	10.1% (8)	14.3% (6)	20.9% (310)
Decreasing	2.2% (15)	1.5% (7)	1.0% (2)	0.0% (0)	4.8% (2)	1.8% (26)
No Change	62.9% (437)	72.6% (341)	79.2% (156)	84.8% (67)	76.2% (32)	69.7% (1,031)
DK/not sure	11.8% (82)	4.3% (20)	5.6% (11)	5.1% (4)	4.8% (2)	8.0% (118)
answered question	695	470	197	79	42	1,480

Change in Hospital Use/Hospitalization by Income Group:

	Less than \$19,999	\$20,000 to \$49,999	\$50,000 to \$79,999	\$80,000 to \$109,999	over \$110,000	Response Totals
Increasing	15.5% (105)	13.1% (61)	5.6% (11)	7.7% (6)	11.9% (5)	12.9% (188)
Decreasing	2.5% (17)	2.2% (10)	1.5% (3)	1.3% (1)	2.4% (1)	2.2% (32)
No Change	70.7% (480)	79.5% (369)	87.8% (172)	88.5% (69)	76.2% (32)	76.9% (1,119)
DK/not sure	11.3% (77)	5.2% (24)	5.6% (11)	2.6% (2)	9.5% (4)	8.1% (118)
answered question	679	464	196	78	42	1,456

Appendix B: Charts and Tables

Change in Illnesses by Income Group:

	Less than \$19,999	\$20,000 to \$49,999	\$50,000 to \$79,999	\$80,000 to \$109,999	over \$110,000	Response Totals
Increasing	30.9% (206)	25.1% (116)	14.5% (28)	10.4% (8)	12.2% (5)	25.2% (362)
Decreasing	3.0% (20)	4.5% (21)	4.1% (8)	3.9% (3)	4.9% (2)	3.8% (54)
No Change	58.0% (386)	66.5% (308)	77.2% (149)	84.4% (65)	78.0% (32)	65.3% (938)
DK/not sure	8.3% (55)	3.9% (18)	4.7% (9)	1.3% (1)	4.9% (2)	5.9% (85)
answered question	666	463	193	77	41	1,437

Change in Difficulty Getting Around Town by Income Group:

	Less than \$19,999	\$20,000 to \$49,999	\$50,000 to \$79,999	\$80,000 to \$109,999	over \$110,000	Response Totals
Increasing	40.7% (279)	30.8% (143)	20.4% (39)	13.2% (10)	7.5% (3)	32.6% (474)
Decreasing	5.4% (37)	3.7% (17)	2.1% (4)	1.3% (1)	7.5% (3)	4.3% (62)
No Change	48.8% (335)	62.4% (290)	77.0% (147)	84.2% (64)	80.0% (32)	59.5% (866)
DK/not sure	5.2% (36)	3.4% (16)	2.1% (4)	1.3% (1)	5.0% (2)	4.0% (58)
answered question	686	465	191	76	40	1,455

Change in Missed Work Days by Income Group

	Less than \$19,999	\$20,000 to \$49,999	\$50,000 to \$79,999	\$80,000 to \$109,999	over \$110,000	Response Totals
Increasing	13.4% (88)	9.9% (44)	6.0% (11)	6.5% (5)	2.5% (1)	10.6% (149)
Decreasing	2.7% (18)	1.8% (8)	3.8% (7)	0.0% (0)	7.5% (3)	2.6% (36)
No Change	74.0% (487)	83.1% (370)	86.4% (159)	93.5% (72)	85.0% (34)	79.9% (1,120)
DK/not sure	9.9% (65)	5.6% (25)	3.8% (7)	0.0% (0)	5.0% (2)	7.0% (98)
answered question	658	445	184	77	40	1,401

Appendix B: Charts and Tables

Change in Ability to Obtain Food by Income Group

	Less than \$19,999	\$20,000 to \$49,999	\$50,000 to \$79,999	\$80,000 to \$109,999	over \$110,000	Response Totals
Increasing	19.3% (128)	12.0% (55)	5.8% (11)	10.4% (8)	4.8% (2)	14.3% (204)
Decreasing	12.8% (85)	11.8% (54)	8.5% (16)	9.1% (7)	9.5% (4)	11.6% (165)
No Change	58.6% (389)	71.4% (327)	82.5% (156)	79.2% (61)	78.6% (33)	67.6% (965)
DK/not sure	9.5% (63)	4.8% (22)	3.2% (6)	1.3% (1)	7.1% (3)	6.7% (95)
answered question	664	458	189	77	42	1,428

In each of the above areas, Increasing is more commonly reported by lower income respondents than higher income respondents, suggesting that extremely hot weather in Ingham County is having a larger impact on lower income residents in these areas.

Other comments about impacts of extremely hot weather in Ingham County:

Comments (grouped by type)	#
ABILITY TO OBTAIN WORK/ DO WORK OUTSIDE/ NO CAR NO WORK/ Employment funds decreasing	4
Activities out doors/Outdoor Activities/Desire to be outside/ MOTIVATION TO WALK OUTSIDE	4
gas/ gas prices/ gas prices increasing , it's hard to access and attend job interviews.	4
I don't want to do anything/INCREASED FATIGUE/JUST FEELING EXHAUSTED REAL FAST	3
Killing grass/ Ability to care for lawn/ LAWN MOWING	3
MY DEODRANT/ deodorant purchases/ USE OF DEODERANT	3
ABILITY TO SLEEP/ Sometimes too hot to sleep	2
drink more water/ Drinking water and use of sunscreen	2
housing issues - increasing/ rent/bills	2
Increasing Allergies	2
LESS ACTIVITY/HOUSE WORK/Difficulty getting anything done at home (no air)	2
Less exercise outside/motivation to exercise	2
Access to H2O	
ACTIVITY LEVELS APPETITE	
AMOUNT OF FOOD YOU EAT	
Can't leave my pets out.	
Crankiness	
everything is too high	
EVERYTHING ITS BEEN TO HOT	
Food bank	
INCREASED ASTHMA ISSUE	
Increased fuel consumption A/C	
Just hot	
loss of appetite	
PASSING OUT	
Playing video games	
sweat	
TRAVEL	
USAGE OF WATER	
Weather changes cause different problems	
WOULD LIKE TO GO SWIMMING	

Appendix B: Charts and Tables

Cooling Devices in Residence and Workplace

Central air conditioning is more common among respondents with income over \$50,000, whereas electric fans or ceiling fans are more common among respondents with income under \$49,000. With the exception of respondents with incomes under \$19,999, central air conditioning is the most frequently reported workplace cooling device. Most residents with income under \$19,999 reported “N/A/not currently employed” regarding workplace cooling devices, with a similar number reporting “Central air conditioning”.

What type of cooling devices do you have in your residence?

	Less than \$19,999	\$20,000 to \$49,999	\$50,000 to \$79,999	\$80,000 to \$109,999	over \$110,000	Response Totals
Central air conditioning	36.4% (265)	48.9% (234)	64.0% (128)	77.2% (61)	81.0% (34)	47.3% (721)
Wall or room air conditioning unit	31.5% (229)	34.4% (165)	28.0% (56)	15.2% (12)	9.5% (4)	30.4% (464)
Electric fan(s) or ceiling Fan(s)	58.7% (427)	61.8% (296)	59.0% (118)	53.2% (42)	59.5% (25)	59.5% (907)
None	8.7% (63)	2.3% (11)	1.0% (2)	2.5% (2)	2.4% (1)	5.2% (79)
Other (please specify)	19 replies (2.6%)	6 replies (1.3%)	2 replies (1.0%)	0 replies (0.0%)	2 replies (4.8%)	1.9% (29)
answered question	728	479	200	79	42	1,525

Asian/Asian Americans are the race group that most frequently reported Central air conditioning in their home; Hispanic/Latino or Spanish Origin report the this device the least of all groups. Across all race groups except Asian/Asian American, Electric fans or ceiling fans are most frequently reported, though more frequently by White/Caucasian and Two or more Races than by Black/African American and Hispanic/Latino or Spanish Origin.

What type of cooling devices do you have in your residence?

	Asian/Asian-American	Black/African American	Hispanic/Latino or Spanish Origin	White/Caucasian	Two or more races/ethnicity	Response Totals
Central air conditioning	59.0% (23)	49.1% (237)	38.3% (44)	46.3% (406)	53.5% (38)	47.2% (736)
Wall or room air conditioning unit	33.3% (13)	27.7% (134)	36.5% (42)	30.4% (266)	26.8% (19)	30.0% (468)
Electric fan(s) or ceiling Fan(s)	43.6% (17)	53.8% (260)	54.8% (63)	64.3% (563)	64.8% (46)	59.9% (934)
None	2.6% (1)	5.6% (27)	6.1% (7)	4.8% (42)	4.2% (3)	5.0% (78)
Other (please specify)	0 replies (0.0%)	6 replies (1.2%)	2 replies (1.7%)	17 replies (1.9%)	2 replies (2.8%)	1.7% (27)
answered question	39	483	115	876	71	1,559

Appendix B: Charts and Tables

Which of the following cooling devices do you have at your workplace?

	Less than \$19,999	\$20,000 to \$49,999	\$50,000 to \$79,999	\$80,000 to \$109,999	over \$110,000	Response Totals
Central air conditioning	35.3% (249)	51.5% (240)	63.2% (120)	76.9% (60)	63.4% (26)	46.9% (693)
Wall or room air conditioning unit	5.0% (35)	7.1% (33)	7.9% (15)	10.3% (8)	4.9% (2)	6.3% (93)
Electric fan(s) or ceiling Fan(s)	15.5% (109)	18.0% (84)	15.8% (30)	15.4% (12)	9.8% (4)	16.1% (238)
None	15.2% (107)	8.4% (39)	7.4% (14)	3.8% (3)	14.6% (6)	11.4% (169)
N/A not currently employed	36.7% (259)	23.2% (108)	16.8% (32)	7.7% (6)	19.5% (8)	27.9% (412)
Other (please specify)	30 replies (4.3%)	27 replies (5.8%)	5 replies (2.6%)	2 replies (2.6%)	3 replies (7.3%)	4.5% (67)
answered question	705	466	190	78	41	1,477

Other replies include:

Residence:	Workplace:
3 FANS/ Window Fans/ box fan/ portable fan (5)	Blue sky, open air/ Outdoors/ Work Outside/ Wind (7)
Attic fan	Controlled Air Unit
BASEMENT	limited A/C, breaks down regularly
Cold shower	Living at VOA
Conditioning??	N/A / Retired/ Do Not Work/ Student/ Out of Work / Disabled / Homemaker (45)
Does not use central air	paint contractor
Paper fan	shade trees and vined plants
Energy efficient air conditioners	Varies (9)
feather wand	Windows (2)
Good screens and sun blocking shades	Work at home/ self employed (3)
Ice Cubes	Ice H2O
Ice shaver	Modern energy efficient 12000 Btle AC
No residence/ VOA RESIDENT/ SHELTER	NONE
Open doors/ open windows/ open window at night/ WINDOW/ Cross ventilation (6)	Don't use wall or room air conditioning unit, frozen wet washcloth
pool	Portable A/C Unit
Shade from trees	

Symptoms of Heat-Related Illness

When asked about likelihood of seeking immediate medical attention for symptoms heat-related illness, Very likely is most frequently reported for:

- Extremely high body temperature
- Fainting
- Unconsciousness (54% for under \$19,999 vs. 77% for \$80,000-\$109,000)

Not at all likely is most frequently reported for:

- Red, hot, dry skin (no sweating)
- Fast, strong, pulse
- Throbbing headache
- Dizziness

Appendix B: Charts and Tables

- Heavy Sweating
- Nausea or Vomiting
- Muscle cramps (54% for under \$19,999 vs. 68% \$80,000-\$109,000)

For Confusion, respondents with income under \$19,999 are mostly Not at all likely to seek medical attention, whereas all other income groups were mostly Very likely.

Other responses regarding seeking medical attention for symptoms of heat-related illness:

Asthma/ Breathing/ BREATHING DIFFICULTY/ breathing problems/ difficulty to breath (5)
Back pain, seizures
Blood Pressure
blurry vision
CAN NOT AFFORD/ NO INSURANCE (2)
CATARACTS- SUN CREATES COMPLICATIONS
Crankiness/ Different person (2)
EXTREME DROWSINESS BROUGHT ON BY EXTREME HEAT
I CAME FROM A HOT LAND
I'm a nurse so I avoid these conditions by caring for myself before getting in this position.
LOSE WEIGHT / No desire to eat, diabetic (2)
LOSS OF SLEEP / Sleeplessness (2)

Coping with extremely hot days, heat waves, heat wave emergencies

When asked where you would go to cool of on an extremely hot day, heat wave or heat wave emergency, ‘Very’ likely is most frequently reported for:

- Pool, beach, lake or other water source
- Friends’ or family members’ residence

‘Somewhat likely’ is most frequently reported for:

- Shopping mall or grocery store
- Restaurant (34% for under \$19,999 vs. 48% for \$110,00 and over)

‘Not at all likely’ is most frequently reported for:

- Public cooling center (37% for under \$19,999 vs. 65% for \$80,000-\$109,000)
- Social service agency or cooling center (51% for under \$19,999 vs. 78% for \$80,000-\$109,000)

Where are you most likely to go if you need to cool off on an extremely hot day, heat way, or heat wave emergency?

Movie theater

	Less than \$19,999	\$20,000 to \$49,999	\$50,000 to \$79,999	\$80,000 to \$109,999	over \$110,000	Response Totals
Not at all likely	51.9% (343)	43.9% (195)	30.4% (56)	27.3% (21)	42.5% (17)	45.0% (632)
Somewhat likely	25.9% (171)	32.2% (143)	40.8% (75)	37.7% (29)	32.5% (13)	30.7% (431)
very likely	15.9% (105)	21.2% (94)	26.1% (48)	31.2% (24)	17.5% (7)	19.7% (276)
DK/ not sure	6.7% (44)	2.9% (13)	2.7% (5)	3.9% (3)	7.5% (3)	4.8% (67)

Appendix B: Charts and Tables

Shopping mall or grocery store

	Less than \$19,999	\$20,000 to \$49,999	\$50,000 to \$79,999	\$80,000 to \$109,999	over \$110,000	Response Totals
Not at all likely	30.9% (207)	23.8% (107)	19.7% (37)	26.0% (20)	27.5% (11)	26.9% (382)
Somewhat likely	34.5% (231)	41.9% (188)	48.4% (91)	40.3% (31)	40.0% (16)	39.1% (556)
very likely	31.6% (212)	33.6% (151)	30.3% (57)	32.5% (25)	20.0% (8)	31.7% (451)
DK/ not sure	3.4% (23)	1.3% (6)	1.6% (3)	1.3% (1)	12.5% (5)	2.7% (38)

Public cooling center (air conditioned building open for everyone to use)

	Less than \$19,999	\$20,000 to \$49,999	\$50,000 to \$79,999	\$80,000 to \$109,999	over \$110,000	Response Totals
Not at all likely	36.7% (243)	48.6% (215)	59.0% (108)	64.5% (49)	44.7% (17)	45.0% (629)
Somewhat likely	27.9% (185)	25.6% (113)	25.1% (46)	14.5% (11)	31.6% (12)	26.3% (367)
very likely	29.8% (197)	22.6% (100)	12.6% (23)	17.1% (13)	15.8% (6)	24.2% (339)
DK/ not sure	5.7% (38)	3.4% (15)	3.8% (7)	3.9% (3)	7.9% (3)	4.7% (66)

Friend or family members' residence

	Less than \$19,999	\$20,000 to \$49,999	\$50,000 to \$79,999	\$80,000 to \$109,999	over \$110,000	Response Totals
Not at all likely	20.6% (137)	23.0% (101)	29.6% (55)	29.9% (23)	23.1% (9)	23.1% (324)
Somewhat likely	28.8% (192)	32.3% (142)	33.9% (63)	32.5% (25)	33.3% (13)	30.9% (434)
very likely	46.7% (311)	42.8% (188)	35.5% (66)	36.4% (28)	35.9% (14)	43.2% (606)
DK/ not sure	4.2% (28)	2.3% (10)	1.1% (2)	1.3% (1)	7.7% (3)	3.1% (44)

Appendix B: Charts and Tables

Restaurant

	Less than \$19,999	\$20,000 to \$49,999	\$50,000 to \$79,999	\$80,000 to \$109,999	over \$110,000	Response Totals
Not at all likely	38.2% (247)	30.8% (135)	26.2% (48)	27.6% (21)	25.6% (10)	33.4% (461)
Somewhat likely	34.1% (220)	41.5% (182)	44.3% (81)	36.8% (28)	48.7% (19)	38.3% (529)
very likely	23.2% (150)	26.0% (114)	28.4% (52)	32.9% (25)	20.5% (8)	25.1% (347)
DK/ not sure	5.0% (32)	2.1% (9)	1.1% (2)	2.6% (2)	5.1% (2)	3.4% (47)

Social service agency or community center

	Less than \$19,999	\$20,000 to \$49,999	\$50,000 to \$79,999	\$80,000 to \$109,999	over \$110,000	Response Totals
Not at all likely	51.1% (334)	59.1% (260)	72.4% (134)	78.4% (58)	61.5% (24)	58.2% (808)
Somewhat likely	25.4% (166)	23.2% (102)	15.7% (29)	9.5% (7)	23.1% (9)	22.5% (312)
very likely	19.4% (127)	14.5% (64)	7.6% (14)	8.1% (6)	10.3% (4)	15.5% (215)
DK/ not sure	5.8% (38)	4.1% (18)	4.9% (9)	6.8% (5)	7.7% (3)	5.3% (73)

Pool, beach, lake or other water source

	Less than \$19,999	\$20,000 to \$49,999	\$50,000 to \$79,999	\$80,000 to \$109,999	over \$110,000	Response Totals
Not at all likely	19.8% (128)	19.9% (86)	19.0% (34)	16.2% (12)	17.5% (7)	19.5% (267)
Somewhat likely	26.9% (174)	28.9% (125)	33.5% (60)	41.9% (31)	30.0% (12)	29.2% (400)
very likely	50.0% (324)	50.1% (217)	45.8% (82)	40.5% (30)	47.5% (19)	48.9% (671)
DK/ not sure	3.5% (23)	1.4% (6)	2.8% (5)	1.4% (1)	5.0% (2)	2.7% (37)

Appendix B: Charts and Tables

When asked how likely you are to do any of the following during a heat wave or heat wave emergency, all options are most frequently reported ‘Very likely’:

- Limit outdoor activity, exercise or work
- Drink extra water
- Take extra showers or baths
- Rest more
- Use an electric fan at residence
- Use air conditioning at residence (64% for under \$19,999 vs. 82% for \$80,000-\$109,000)
- Go somewhere cooler or air conditioned

The most frequently reported mode of travel to get somewhere cooler during a heat wave or heat wave emergency is ‘Drive myself’. There is a large difference between respondents with income under \$19,999 of whom 53% give this response, and respondents with income between \$80,000 and \$109,000 of whom 87% give this response.

Respondents with income under \$19,999 are the income group to most frequently answer Take the bus or other public transportation (41%), Have family or friends take me (38%), Walk or bike (31%) and I would not go anywhere (15%).

How would you get somewhere cooler, if you needed to, during a heat wave or heat wave emergency?

	Less than \$19,999	\$20,000 to \$49,999	\$50,000 to \$79,999	\$80,000 to \$109,999	over \$110,000	Response Totals
Drive myself	52.5% (378)	83.2% (396)	85.8% (169)	87.0% (67)	82.9% (34)	69.0% (1,041)
Have family or friends take me	38.2% (275)	33.4% (159)	19.8% (39)	27.3% (21)	24.4% (10)	33.4% (503)
Take the bus or other public transportation	41.3% (297)	16.8% (80)	11.2% (22)	10.4% (8)	9.8% (4)	27.3% (411)
Walk or bike	31.0% (223)	19.1% (91)	19.8% (39)	19.5% (15)	22.0% (9)	25.0% (377)
Request emergency assistance or help to get me there	6.5% (47)	4.4% (21)	3.6% (7)	7.8% (6)	2.4% (1)	5.4% (82)
I would not go anywhere	14.9% (107)	12.0% (57)	13.7% (27)	13.0% (10)	9.8% (4)	13.6% (205)
Other (please specify)	10 replies (1.4%)	12 replies (2.5%)	2 replies (1.0%)	0 replies (0.0%)	1 reply (2.4%)	1.7% (25)
answered question	720	476	197	77	41	1,508

Appendix B: Charts and Tables

Across age and income, respondents similarly report having someone they would contact for help with emergency assistance. Across race groups, Asian/Asian American respond No to this question than any other group. This race group also most frequently reports I would not go anywhere to the previous question about where they would go to get cooler.

	Asian/Asian-American	Black/African American	Hispanic/Latino or Spanish Origin	White/Caucasian	Two or more races/ethnicity	Response Totals
Yes	63.9% (23)	75.3% (345)	75.0% (87)	74.9% (630)	73.9% (51)	74.8% (1,119)
No	30.6% (11)	23.4% (107)	22.4% (26)	24.1% (203)	21.7% (15)	23.7% (355)
Other (please specify)	2 replies (5.6%)	20 replies (4.4%)	10 replies (8.6%)	20 replies (2.4%)	4 replies (5.8%)	3.7% (55)
answered question	36	458	116	841	69	1,496

Responses about availability of emergency supplies are similar across income and age groups. The largest discrepancies in responses are amongst race groups. The chart below summarizes responses about availability of supplies. Black/African American respondents report availability of most items less frequently than any other race group, including:

- 3-day supply of non-perishable food
- 3-day supply of medications
- Flashlight or other light source
- Radio (battery operated or crank)
- Back-up power or generator

Black/African American respondents also more frequently report None of the Above (supplies available) than any of the other race groups surveyed. Hispanic/Latino or Spanish Origin respondents and Two or more races/ethnicity were less likely than other groups to have radios available.

Across races, for all items other than Flashlight or other light source, 63% is the highest response rate for availability of emergency supplies. Most respondents do not report availability of a 3-day supply of water, 3-day supply of medications, Radio, Land line phone, or Back-up power generator.

Appendix B: Charts and Tables

	Asian/Asian-American	Black/African American	Hispanic/Latino or Spanish Origin	White/Caucasian	Two or more races/ethnicity	Response Totals
3-day supply of water (at least 1 gallon per person per day)	48.6% (18)	49.7% (235)	47.8% (55)	41.5% (355)	46.5% (33)	45.0% (686)
3-day supply of non-perishable food	62.2% (23)	54.8% (259)	62.6% (72)	67.7% (579)	64.8% (46)	63.4% (967)
3-day supply of medications	56.8% (21)	41.4% (196)	52.2% (60)	58.7% (502)	53.5% (38)	52.9% (807)
Flashlight or other light source	70.3% (26)	65.3% (309)	75.7% (87)	83.2% (711)	73.2% (52)	76.5% (1,167)
Radio(battery operated or crank)	59.5% (22)	41.4% (196)	41.7% (48)	52.2% (446)	36.6% (26)	47.8% (729)
Land line phone (one that works without power)	29.7% (11)	33.2% (157)	28.7% (33)	38.7% (331)	26.8% (19)	35.7% (544)
Back-up power or generator	16.2% (6)	6.1% (29)	12.2% (14)	10.9% (93)	9.9% (7)	9.6% (147)
None of the above	10.8% (4)	12.7% (60)	8.7% (10)	7.4% (63)	9.9% (7)	9.2% (140)

Most respondents did not indicate needing devices in order to evacuate in a heat wave or heat wave emergency. Of those who report needing devices, walkers and canes were most frequently noted, particularly among respondents with income under \$19,999.

Are there any devices you would need to leave your residence, if evacuation were necessary, during a heat wave, heat wave emergency and/or power outage?

	Less than \$19,999	\$20,000 to \$49,999	\$50,000 to \$79,999	\$80,000 to \$109,999	over \$110,000	Response Totals
Notification via TTY or TRS	6.8% (22)	8.9% (18)	6.3% (4)	9.1% (2)	8.3% (1)	7.5% (47)
Walker	14.2% (46)	9.4% (19)	12.7% (8)	9.1% (2)	16.7% (2)	12.3% (77)
Cane	13.9% (45)	9.9% (20)	6.3% (4)	9.1% (2)	16.7% (2)	11.7% (73)
Wheelchair	5.2% (17)	3.0% (6)	1.6% (1)	0.0% (0)	0.0% (0)	3.8% (24)
Other (please specify)	212 replies (65.4%)	150 replies (73.9%)	46 replies (73.0%)	18 replies (81.8%)	8 replies (66.7%)	69.6% (434)
answered question	324	203	63	22	12	624

Most of the Other responses were None/No devices needed, and:

- Asthma Meds/Inhaler/Nebulizer/breathing machine/oxygen – 15
- CPAP Machine – 8
- Medicines/Medical Supplies - 7
- Scooter – 2

Appendix B: Charts and Tables

Approximately 22% of respondents report regularly taking medications that increase risk of heat-related illness. There are not large differences among income or age groups. However, by race group, Hispanic/Latino or Spanish Origin have a largest percentage of respondents not taking such medications. White/Caucasian and Two or more races/ethnicities have the largest percentage of respondents that are regularly taking such medications.

Are you currently taking any medications that increase your risk of heat-related illness?

	Asian/Asian-American	Black/African American	Hispanic/Latino or Spanish Origin	White/Caucasian	Two or more races/ethnicity	Response Totals
Yes, regularly (e.g. daily, weekly, monthly)	12.8% (5)	20.1% (92)	14.8% (16)	23.6% (196)	23.2% (16)	21.7% (322)
Yes, sometimes	10.3% (4)	5.7% (26)	1.9% (2)	5.0% (42)	5.8% (4)	5.3% (78)
No	71.8% (28)	68.3% (313)	75.0% (81)	66.1% (550)	63.8% (44)	67.2% (995)
DK/ not sure	0.0% (0)	6.1% (28)	5.6% (6)	5.6% (47)	7.2% (5)	5.8% (86)
Other (please specify)	2 replies (5.1%)	9 replies (2.0%)	5 replies (4.6%)	11 replies (1.3%)	2 replies (2.9%)	1.8% (27)
answered question	39	458	108	832	69	1,481