

Comprehensive Environmental and Climate Action Plan

Task 4: Public Engagement Summary v.3

June 11th, 2019

For: City of Dallas

Prepared by: AECOM and City of Dallas Office of Environmental Quality and Sustainability

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Introduction

This memo provides a summary of the methods employed in the first round of community engagement, the materials shared, and feedback gathered. The purpose of this round was to understand the community's concerns related to environmental and climate issues and explore some preliminary ideas on how they can be addressed. This input will inform what the plan should focus on, shape the plan's goals, and suggest initial ideas for actions.

Overview of participation

Method	# of Participants	Notes
Formal public meetings	116	Beckley Saner Rec Center (14 participants) Bachman Rec Center (11) Martin Weiss Rec Center (13) Churchill Rec Center (31) Audelia Road Library (34) Eastfield College (13)
Online English survey	1,228	
Online Spanish survey	7	
Total	1,351	

Table 1. Overview of participation

Preparing the outreach

How was participation advertised?

- Flyer distribution
- Phone calls to venues and local groups
- City website
- Social Media
- Media pitches
- Attendance at existing community meetings

2000 flyers with information about the CECAP initiative and meetings was created and distributed to venues around the City. The team also attended several existing meetings and events to increase public awareness and answer questions, leading up to the community meetings. A copy of the flyer, list of locations and organizations it was distributed to (hard copies and email versions), and existing events attended are included in **Appendix A and B**.

The meetings and survey were promoted on Green Dallas Facebook and Twitter pages, websites including GreenDallas.net, DallasClimateAction.com and NextDoor.com. Media pitches were put out to environmental journalists, community newspapers and local radio. The first round of meetings was deliberately timed to follow Earth Day (April 22) and the EarthX Conference (April 25-28) to garner more participation, since the Expo was leveraged to publicize the meetings, and environmental and climate topics would be fresh on the minds of the public.

Choice of meeting locations

The choice of meeting venues was determined by the desire to host meetings across city council districts, accessible using public transportation in venues that had little, or no cost to the City. An on-call

shuttle service was available free of charge for residents of Southern Dallas who wanted to attend the Eastfield College meeting. Council districts were grouped based on proximity, where residents from both districts have historically met, and where residents sometimes shared similar characteristics. The meetings took place in the following locations:

- 04/29 - Districts 4 and 7: Beckley Saner Recreation Center (districts both have challenges with socio-economically disadvantaged residents)
- 04/30 - Districts 2,6,13: Bachman Recreation Center (districts 2 and 6 often have meetings together, and many residents use Bachman Lake)
- 05/02 - Districts 1 and 3: Martin Weiss Recreation Center
- 05/06 - Districts 11 and 12: Churchill Recreation Center (districts have similar resident populations)
- 05/07 - Districts 9, 10, 14: Audelia Road Library
- 05/09 - Districts 5 and 8: Eastfield College Pleasant Grove Campus (residents face similar socio-economically disadvantaged challenges)

Workshop and online content

The in-person community meetings and online content used similar content to meet the following engagement objectives. All materials were made available in English and Spanish.

Objective	In-person content	Online content
To provide background on pertinent climate and environmental data for Dallas	30 min presentation and posters on environmental topics	Online video presentation and posters on environmental topics
To collect feedback on the community's concerns	Feedback boards	Survey
To collect ideas to address their concerns	Feedback boards	Survey
To identify the community's overall priorities	Feedback boards	Survey

Table 2. Engagement objectives and content

Background information was by no means comprehensive but sought to highlight a few pertinent issues on each topic area. Based on areas of expertise, we asked members from the environmental planning task force (EPTF) and stakeholder advisory committee (SAC) to perform a review of the information for the posters.

Suggestions for the feedback boards and survey were intended to seed ideas and were deliberately simplified and vague to avoid assumptions that the plan was already formed. These suggestions were based on discussions with the EPTF and SAC at the city workshops on April 2nd and 3rd.

Restrictions were not placed on residents who chose to participate in the meetings and the survey, and duplicates may exist. Survey participants were permitted to skip any questions. Note that the survey is not necessarily representative of Dallas' population since participation was self-selected. Demographic information has been collected in the survey (not at the meetings) and is illustrated in this summary.

Preliminary Results

Feedback is based on data collected at six community meetings, and a survey available in English and Spanish was open from April 27 to June 3. Overall, the survey yielded very high response rates, with above 90% response rate for all questions with the exception of Q15, which asked respondents what their 3 topic-related priorities are and Q21 (see Table 2). Note that response rates were not tracked during in-person, community meetings. Table 2 also shows the number of custom responses per question. Note that Q1 had a survey error and did not collect custom responses, so the total number is based on in-person meetings only. Custom responses to questions 1 through 15, as well as a list of general comments collected at the in-person community meetings are contained in Appendix C.

Questions	% of people who answered the question	Number of custom responses
Q1 Extreme weather- concerns	93.0%	31
Q2 Extreme weather- solutions	96.1%	268
Q3 Buildings and energy- concerns	97.5%	157
Q4 Buildings and energy- solutions	97.8%	289
Q5 Food- concerns	97.6%	201
Q6 Food- solutions	98.2%	262
Q7 Parks and open spaces- concerns	93.9%	281
Q8 Parks and open spaces- solutions	97.9%	197
Q9 Solid waste- concerns	97.6%	284
Q10 Solid waste- solutions	98%	290
Q11 Transportation and land use- concerns	97.8%	233
Q12 Transportation and land use- solutions	96.9%	332
Q13 Water and wastewater- concerns	97.4%	175
Q14 Water and wastewater- solutions	97.8%	235
Q15 Topic priorities	57.4%	
Any other thoughts?		46
Total		3281
Demographic data		
Q16 Age	91.3%	
Q17 Gender	91.6%	
Q 18 Race	91.6%	
Q 19 Renter or homeowner	91.5%	
Q 20 Zip code	90.2%	
Q 21 Stay in touch	36.3%	
Q 22 How did you hear about this survey?	89.6%	

Table 3. Response rates to each question in the Survey

Who participated in the meetings and took the surveys?

1238 people (91.6% of all participants) who attended a public meeting or participated in a survey reported their zip code. 1185 of those were from zip codes in the City of Dallas boundary (shown in Figure 1) and 53 were from surrounding communities including Richardson, Garland, McKinney, amongst others. Zip codes 75214, 75206 and 75218 had the most participation.

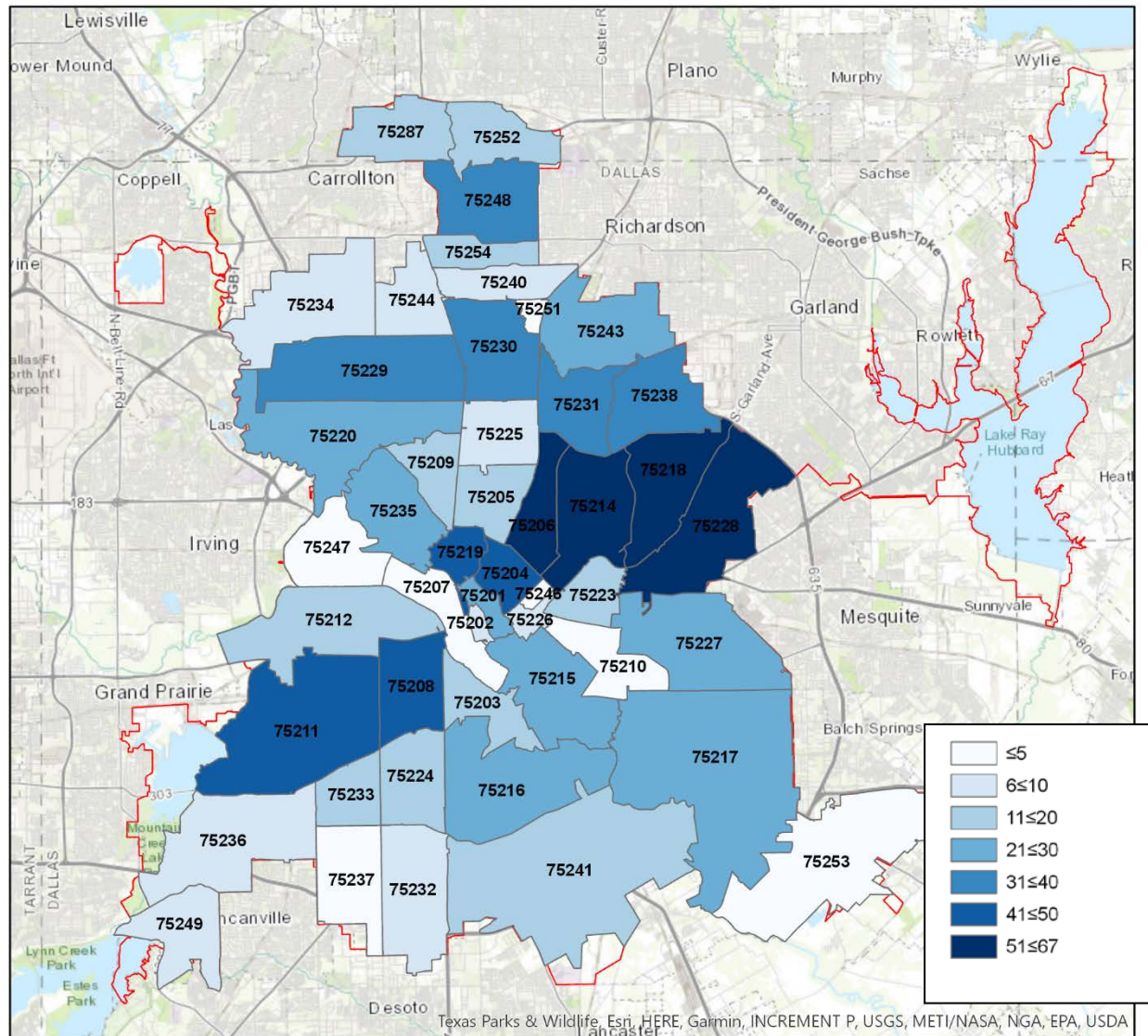


Figure 1. Reported zip codes in the City of Dallas limits that participated in meetings and the survey

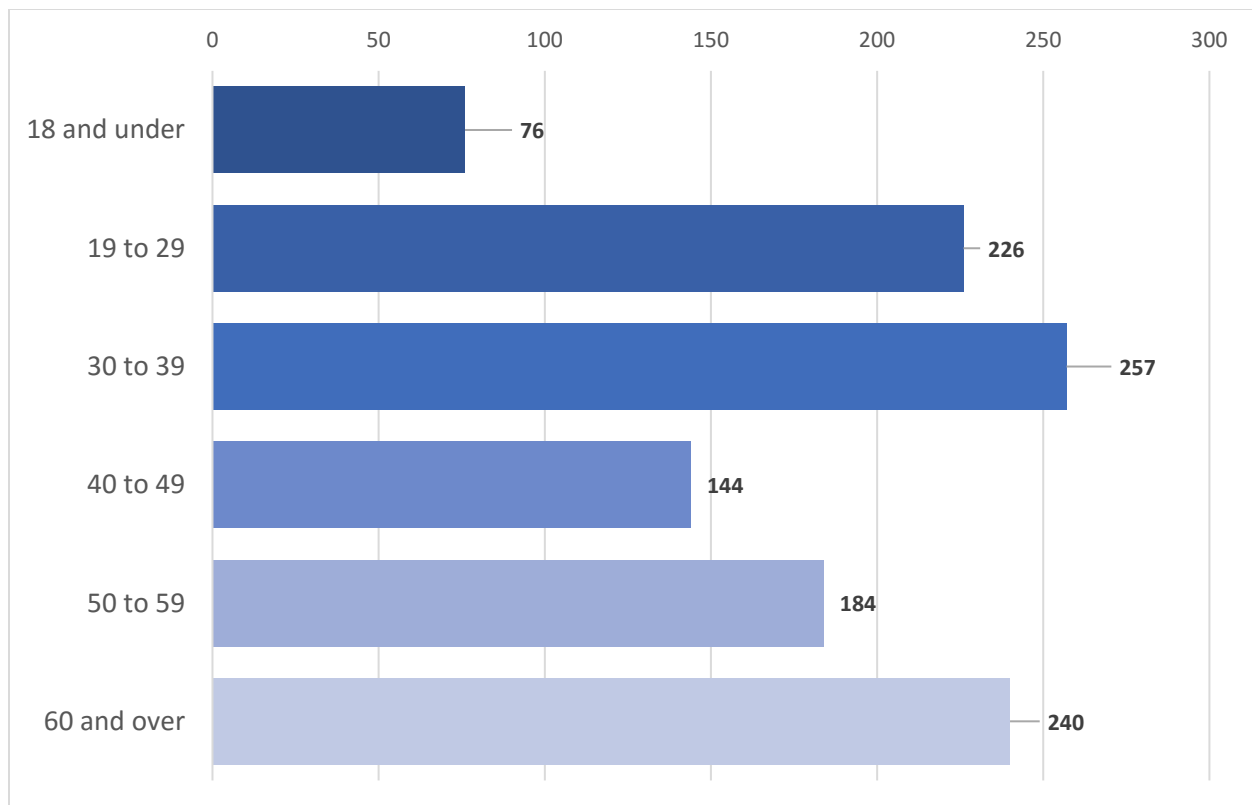


Figure 2. Reported survey participation by age

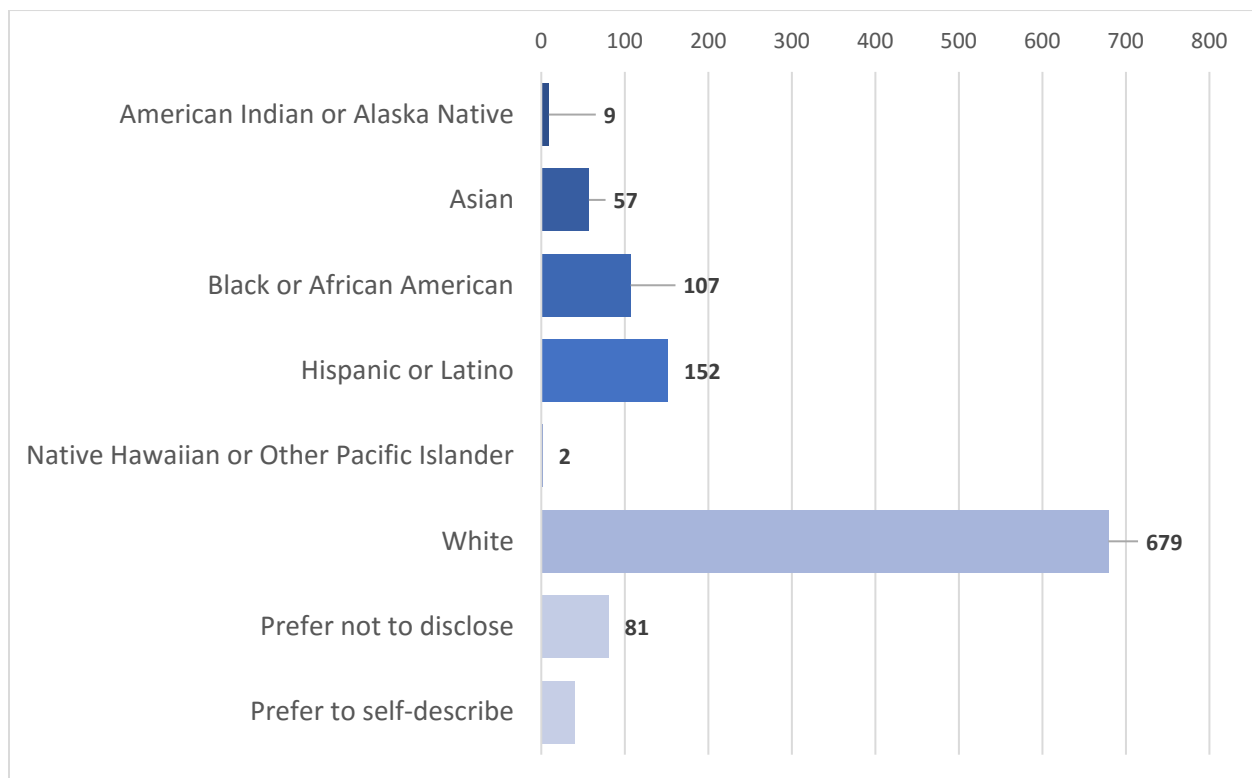


Figure 3. Reported survey participation by race and ethnicity

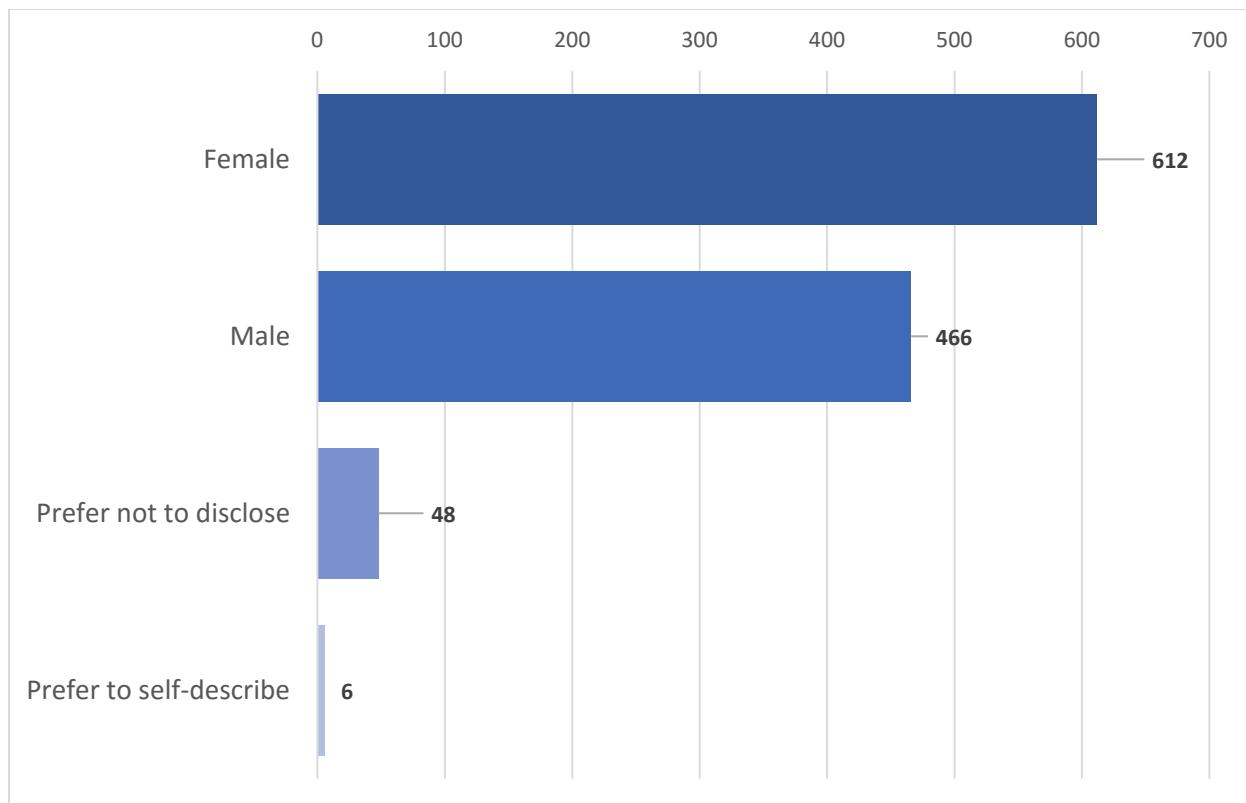


Figure 4. Reported survey participation by gender identity

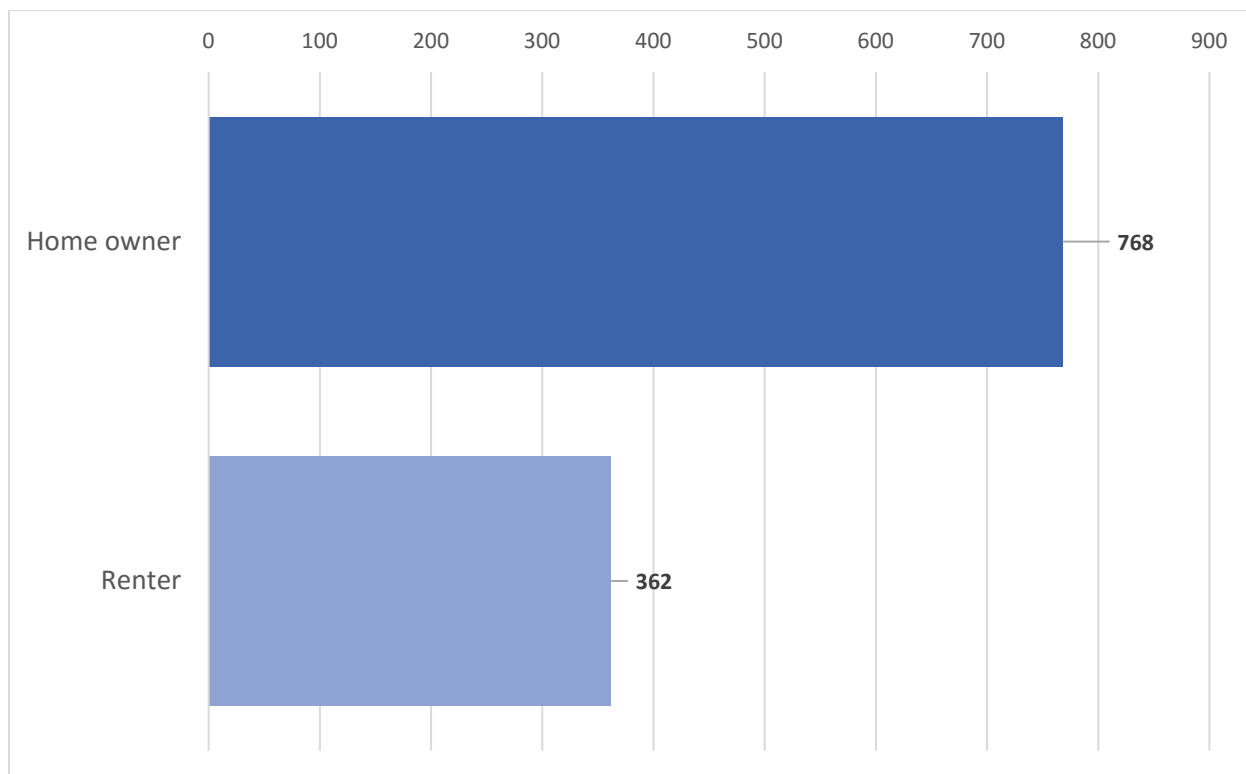


Figure 5. Reported survey participation by homeowner or renter

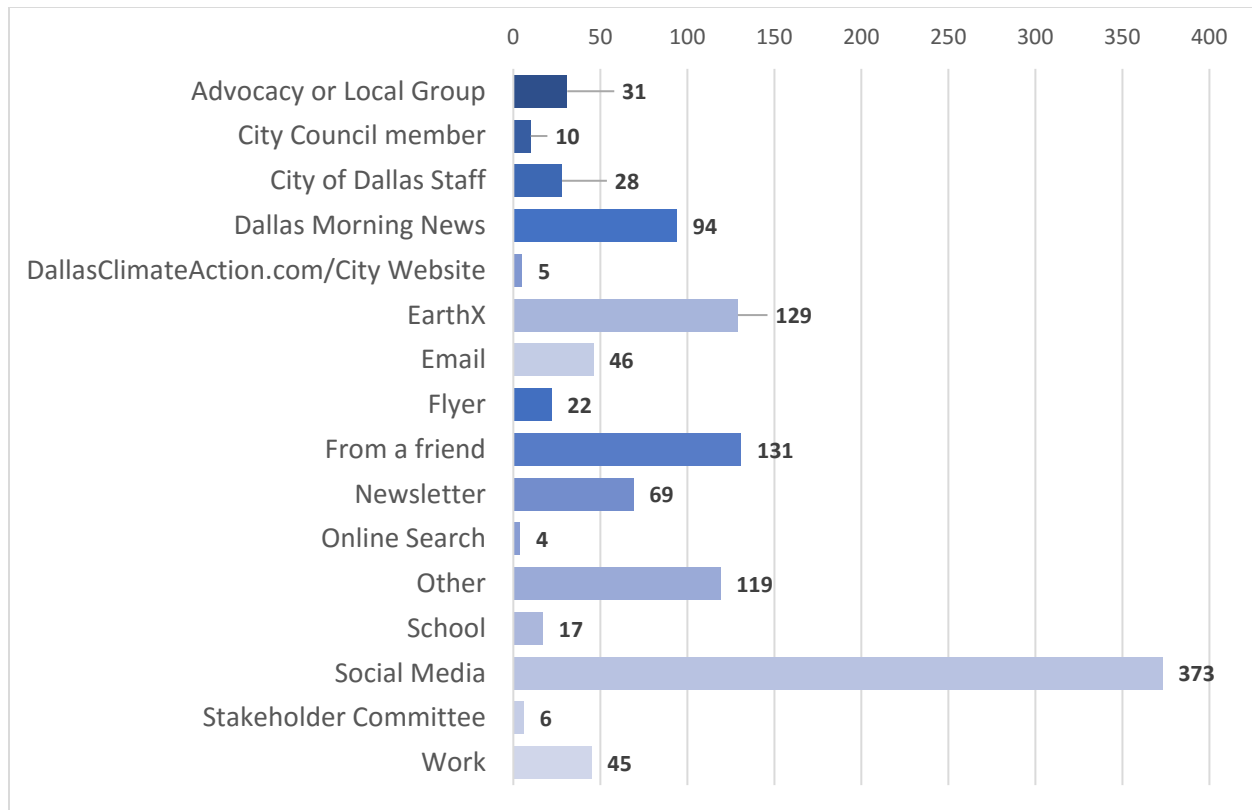


Figure 6. How people heard about the meetings

What did people think?

The graphs that follow show the number of responses to the multiple-choice questions. Custom responses are categorized into themes and ranked by most popular theme. For the comprehensive list of custom responses, see Appendix C.

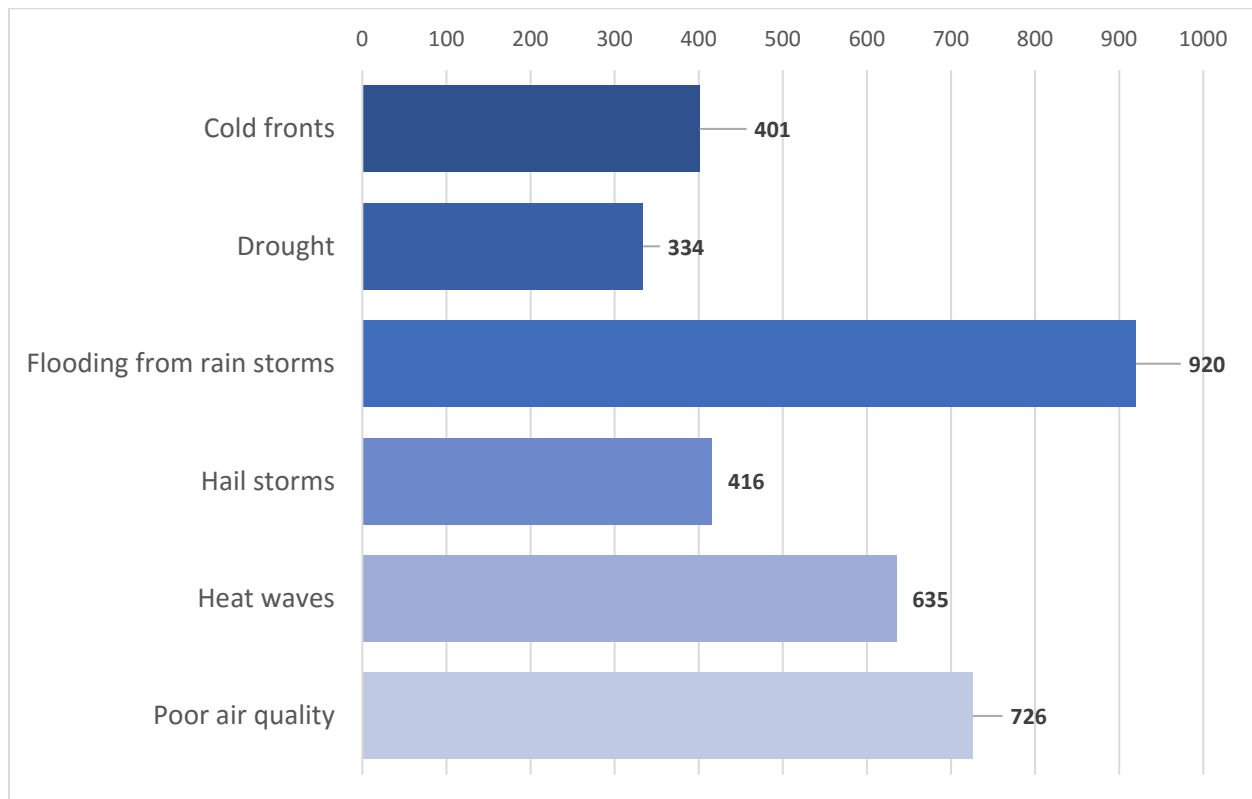


Figure 7. Have you noticed an increase in the frequency and/or intensity of the following extreme weather events in your neighborhood?

Themes	# of concerns	Example (s)
Lack of coping strategies	4	Where are our heating centers? More cold fronts.
Property damage	4	Lightening causes peoples' house on fire. Emergency response.
Public health	4	Mosquitos. Zica. More decreases because of the heat.
Tornados	1	Tornados
Climate refugees	2	How do we accommodate climate refugees?
Urban heat	1	Heat island effect in Dallas urban core
Miscellaneous	18	
Total	34	

Table 4. Climate related concerns – observed themes

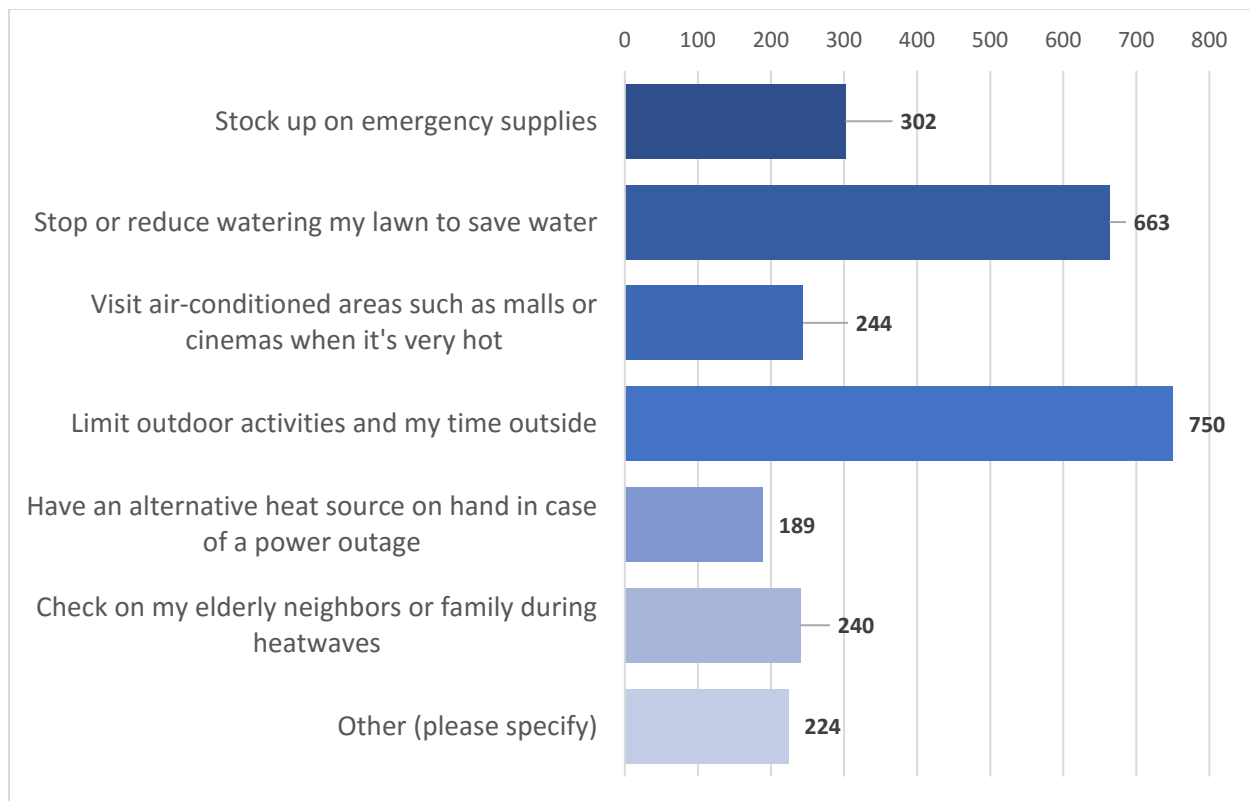


Figure 8. What actions, if any, have you taken to protect yourself or your property from these extreme weather events?

Themes	# of solutions	Example (s)
Make structural (physical) adjustments	115	Installed additional drainage in my backyard. Portable solar battery charger to keep fridge running temporarily
Modify behavior	87	Put car in garage in anticipation of storm/hail Try to get home early. Lock up pets that are normally outside.
No action	33	None, the hot and cold swings in Texas are normal
Education	6	Educate communities and create metrics for checking on neighbors. No one checks on those of us who need help and I think it's because we don't have training in being neighbors anymore. Stupid but true.
Miscellaneous	34	
Total	275	

Table 5. Climate related solutions – observed themes

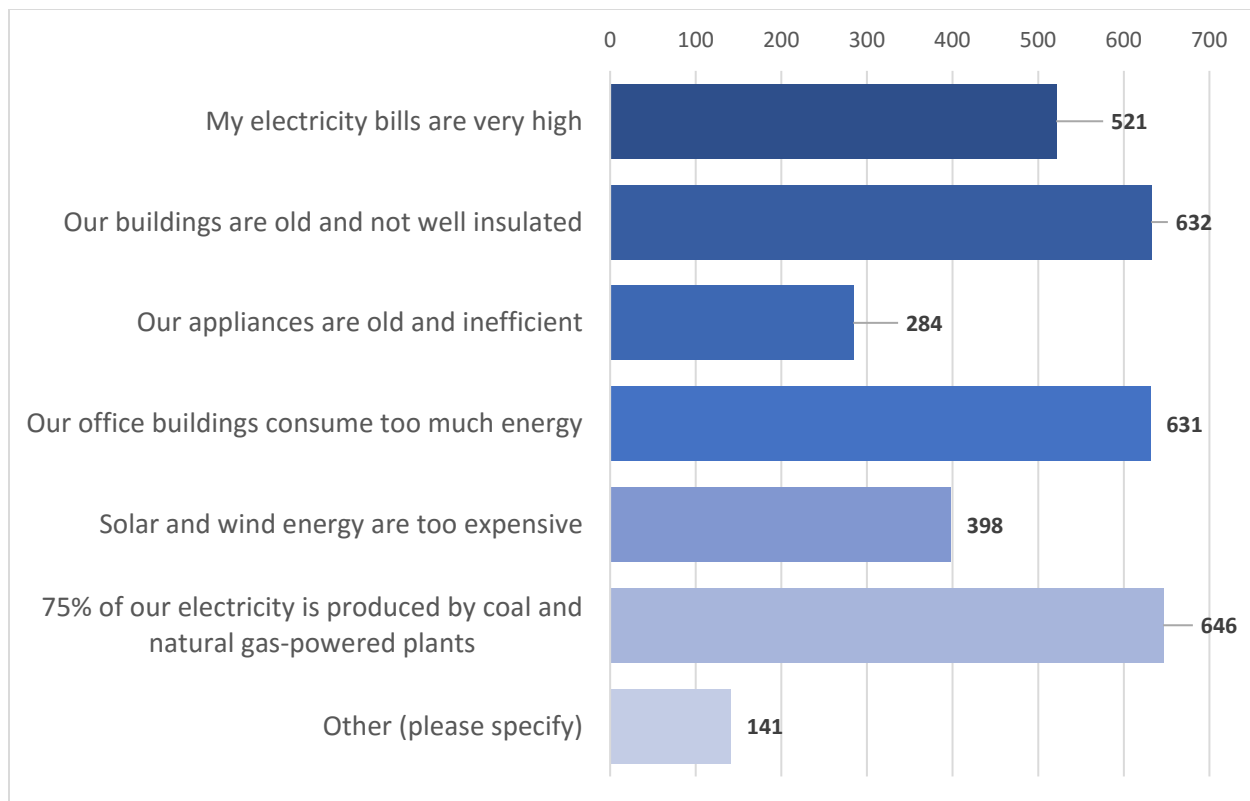


Figure 9. What are your MOST PRESSING concerns as it relates to buildings and energy?

Themes	# of concerns	Example (s)
Solar energy related issues	35	Solar and Wind are not readily available and don't always install easily because of the way homes are constructed
Building efficiency	21	Human comfort requirements are based on old data and office buildings need to be more efficient in heating/cooling protocols.
Other	10	Stop with all the fancy lights in Dallas. Only have lights if power comes from renewable energy.
Not a problem	9	None of the above. Since becoming a homeowner in 2004, I've seen my electricity bills pretty much remain unchanged.
City Regulations and increases in costs	6	We need less regulation on our energy sources. Prices will go down
Energy costs & low income options	5	For many seniors on United income, electricity bills impact their ability to eat and have a positive quality of life.
Energy consumption	6	Oil lobbying and oil money dictating how prepared we are for climate change, while increasing pollution
Electric Grid	6	Above ground power grid susceptible to weather damage
Trees and landscaping	7	Buildings do not create landscapes that reduce heat like removing grass and planting deep rooted plants to hold moisture of create shade and use chemicals that kill the soil and heat it up causing the building to have to work harder to cool.
City LEED and efficiency programs	2	Heard that the City is moving away from LEED, which is disturbing.
Use of coal	3	75% of our electricity is produced by coal and gas is used to power electric cars. So electric cars are 75% fossil fuel powered. So they're only great if powered by solar, etc.

Electricity options	4	Make it easier to shop for electricity. I was able to get cheaper rates if use 1000 KWH or more than less which seems crazy. The energy charges are confusing. You have to download the electricity facts label to compare prices which could be difficult for a lot of people.
Miscellaneous	21	
Total	160	

Table 6. Buildings and Energy related concerns – observed themes

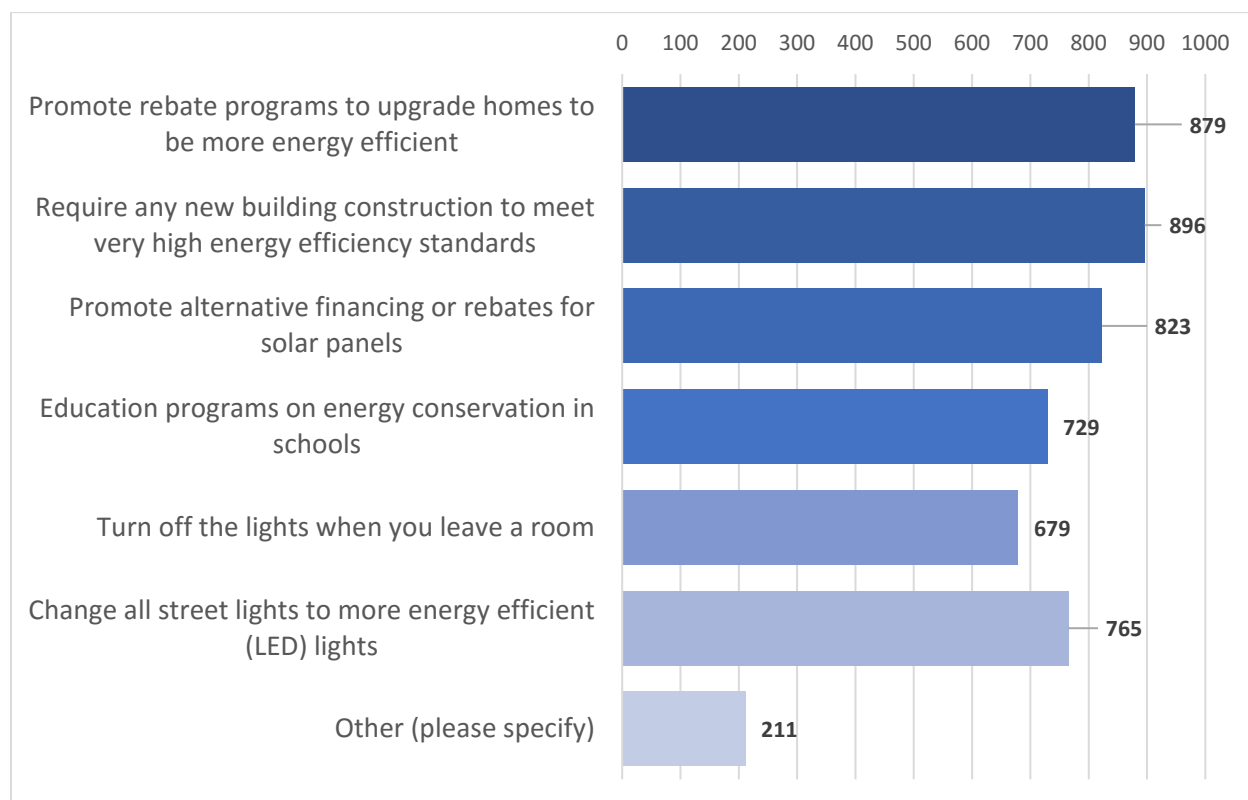


Figure 10. What are some of your ideas that could make this situation (Buildings and Energy) better?

Themes	# of solutions	Example (s)
Building Efficiency	47	Audit older buildings and require sustainable construction methods to meet the very high energy efficiency standards. (Energy audit)
Solar Energy and Renewables	40	Use-e metric for evaluating the effectiveness of power purchase contracts in moving toward a renewable energy based economy in Dallas. Power purchases that have measurable Impact on the building of new renewable energy generation facilities to provide the power are preferable over those with lower Impact.
Lighting and Energy Efficiency	33	Building energy conservation management practices should be encouraged throughout the city. Leaving large outside doors open during business hours is an obvious practice to eliminate. I see this wasteful practice daily at some big box stores like vehicle mechanic shops, Home Depot, Costco, and Calloways Nursery.
Tax incentives	32	Rebate programs are good for people also can't afford to pay many negatively impact strains of building funds

Regulations	27	Commercial buildings are the biggest wasters of energy resources - why do they get less expensive commercial rates? They should somehow be encouraged to be less wasteful.
Education	25	create a mandatory course/ class in energy conservation in all public schools; creation of a city-wide marketing/ education campaign to promote awareness and energy conservation; create tax incentives for installing solar panels in residences; promote more mixed-use development with higher energy efficiency; raise the current minimum energy efficiency per the international building code for the city of Dallas, so that all new construction has an even higher energy performance than today; create a tracking mechanism so that individuals/ families/ companies can report their good efforts and are able to track their progress; creation of an app that individuals can use to track their energy consumption and ways to promote energy conservation;
No concern	13	NOTHING - The results of Climate Change Predictions is Bad Science being politicized by totalitarian governments to control the world's populations.
Transportation	12	electric car incentives to reduce auto exhaust pollution
Trees	10	Promote planting trees to reduce air pollution.
Nuclear or similar	7	Promote the building of new nuclear power plants and deregulate oil companies.
Coordination	5	Work with Oncor or Ercot to provide clean, renewable, to switch to 100% renewable electricity.
Miscellaneous	40	
Total	291	

Table 7. Buildings and Energy related solutions – observed themes

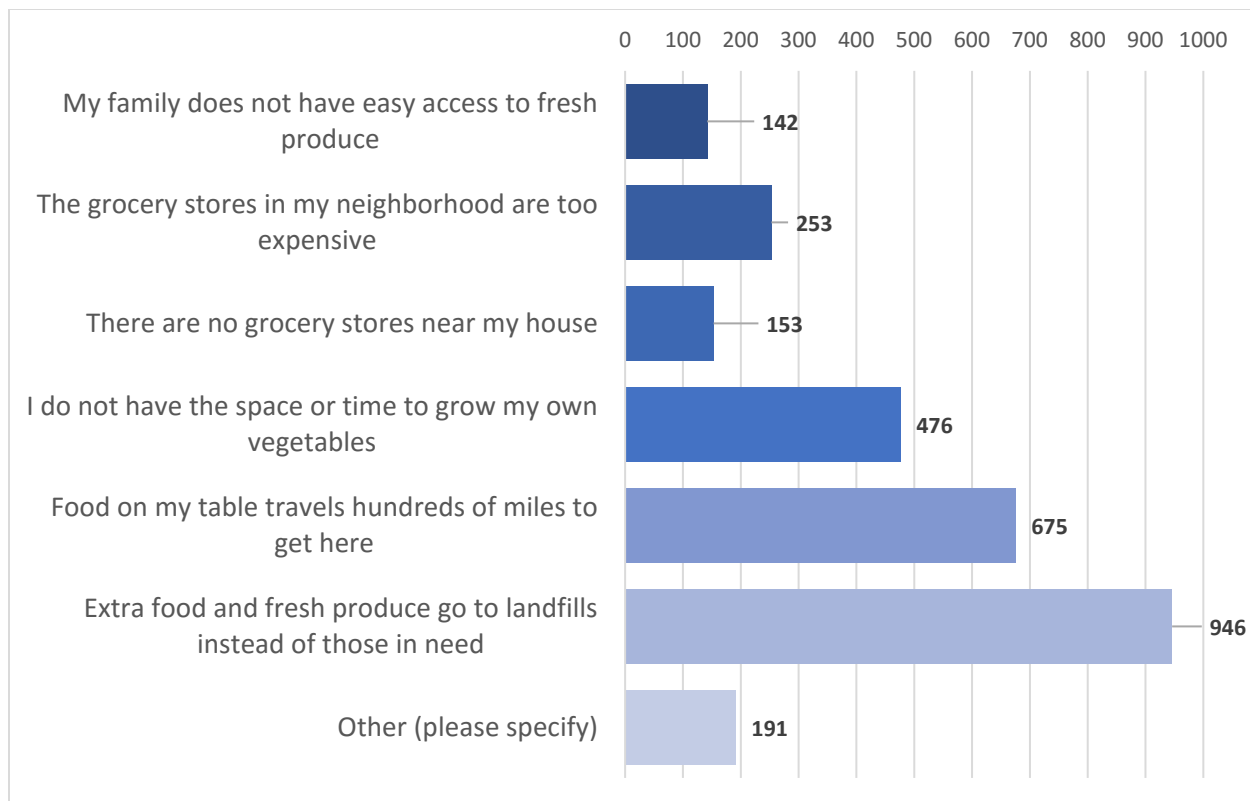


Figure 11. What are your MOST PRESSING concerns as it relates to food and urban agriculture?

Themes	# of concerns	Example (s)
Access to healthy and quality food	25	That so many Dallas residents are unable to afford and access sufficient, nutritious food
Food waste	25	I'm ashamed of the extreme wastefulness of our culture, most especially in the Dallas area. It's disgusting.
Food deserts	22	Lots of people in low income communities do not have an opportunity to get quality food.
Inadequate grocery stores/ farmers market	20	The grocery store in my neighborhood is limited in what it provides.
Consumption of meat	13	My family is shifting from a diet centered on meat to a diet centered on eating vegetables with occasional meat to reduce the huge methane emissions, water consumption and fossil fuel energy consumption of producing meat.
No concern	11	None. These conditions have always existed.
Lack of composting	11	Divert food waste from landfill and stop mixing brush with household materials during Bulky Trash pickup
Affordability	7	Sourcing produce locally is often more expensive Organic produce is highly expensive
Lack of locally sourced food	6	Basic foods seems easy to source locally/regionally. There is no reason to fly vegetables from other continents
High crime	6	High crime in food deserts. Reduce illegal population. Remove the homeless. Hire more Dallas police officers.
Poor eating habits	5	Eating poorly leads to health issues which leads to overloading the healthcare system, which is our present state. I think it is poor

		choices & lack of knowledge causing issues rather than lack of grocery stores.
Market competition (Cheaper to import)	2	Growers not making enough money from the sale of their products to sustain their business. Thus, requiring food to be imported from other countries.
Conventional agriculture	2	GMO crops. Pesticide use. Pollution from Industrial scale animal farms
Lack of awareness on existing programs	2	Educate on Texas SNAP benefits. Food can be ordered / delivered on-line.
Pesticide	2	I don't grow edibles because of neighborhood pesticide spraying. It is essentially poisoning us and our good pollinators.
Plastic bags	2	Plastic Bags!!! I liked when we had the city ordinance of no plastic bags for stores. Maybe have discount at stores or rebate when you bring your own bags.
Regulations against growing food	1	Offer incentives for people to grow food in their front yards instead of giving code citations to people trying to help the environment
Food production requires a lot of land	1	Growing plants and raising animals for food consumption requires a lot of land and produces a lot of bad odors. There's simply no way to do this did extreme close proximity to densely packed cities. Therefore we must accept that the transportation cost and energy are inherent in the process. However, if we could make the transportation more efficient and less energy consumptive, we could decrease greenhouse-gas emissions right there.
Lack of mixed use zoning	1	Need more mix use zoning for businesses
Childhood food insecurity	1	High rate of childhood poverty & hunger in Dallas
Miscellaneous	28	
Total	201	

Table 8. Food and Urban Agriculture related concerns – observed themes

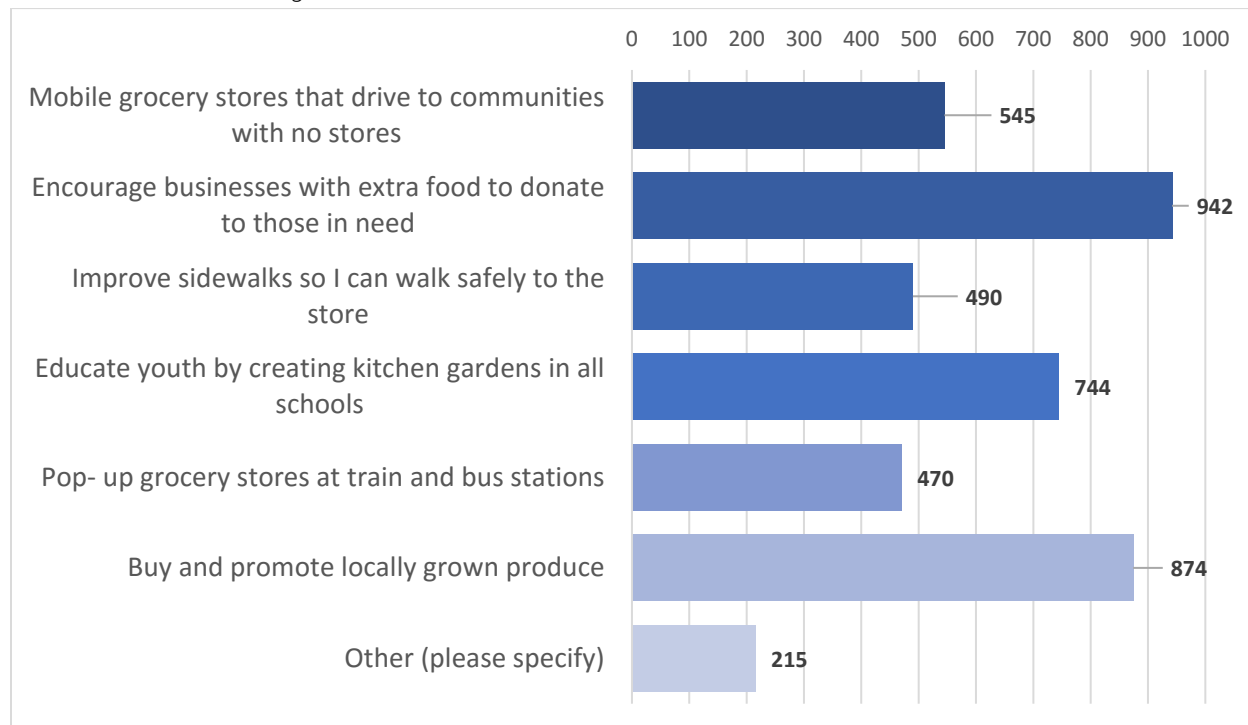


Figure 12. What are some of your ideas that could make this situation (Food and Urban Agriculture) better?

Themes	# of Solutions	Example (s)
Community gardens /urban farms	56	Develop community gardens in different neighborhoods and schools, and incentives for rooftop gardens.
Provide incentives for grocery stores	45	Promote new small locally owned markets over and incentivize fresh produce at existing small retail markets.
Education and outreach	21	Educate youth in all aspects towards making healthier food choose.
Improve physical access to grocery stores	18	Sidewalk quality prevents disabled to get to where we need to go.
Mobile stores	13	Mobile food bank trucks, especially during the summer when kids aren't getting free lunches at schools.
Assistance programs	11	Increase the areas covered by the commodities program.
Reduce crime	10	Don't think letting people get away with shoplifting is going to help draw businesses to Dallas. Especially in economically disadvantaged areas. Improve crime so I can walk safely to the store.
Farmers market	10	More affordable farmers market in southern Dallas.
Grow local produces	9	Focus on native Texas plants and low-energy food production (like fruit walls, etc.)
Promote a plant-based diet	6	Buy and promote 100% plant based foods as these are more efficient to grow and more can be produced with fewer resources.
Food recovery programs	9	Restaurants are extremely wasteful with food left over at the end of the day. It all gets thrown out. It should go to feed homeless and power communities.
Improve access to healthy and high-quality food	5	Even with 3 relatively affordable grocery stores near me they are heavily processed foods and limited access to fresh produce and quality produce. If there was a nearby true farmers market I would go there regularly for fresh produce.
Composting programs	5	City pickup and composting of food waste.
Not a concern	5	As stated above, I've never seen the situation you've described and have lived and worked in Dallas since 1998, particularly in Southern Dallas off of I45 and Simpson Stuart Rd.
Food growing programs	4	Provide the tools and education and plots of land to citizens who would like to grow their own food. Start a program to encourage urban vegetable gardening.
Encourage organic produces	4	Encourage food customers and venders to buy only organic - with a greater, knowledgeable demand and marketability, prices will be lowered.
Increase convenience	1	More groceries that open late night.
Encourage mixed use zoning	1	Build more low income housing in high opportunity area near grocery stores and job opportunities to promote stability.
Citizen led commission	1	Create citizen-led commission with public funding to solve food dessert issues.
Packaging	1	Also: less food packaging and essential wrapping out of biodegradable or edible materials!
Miscellaneous	23	
Total	262	

Table 9. Food and Urban Agriculture related solutions – observed themes

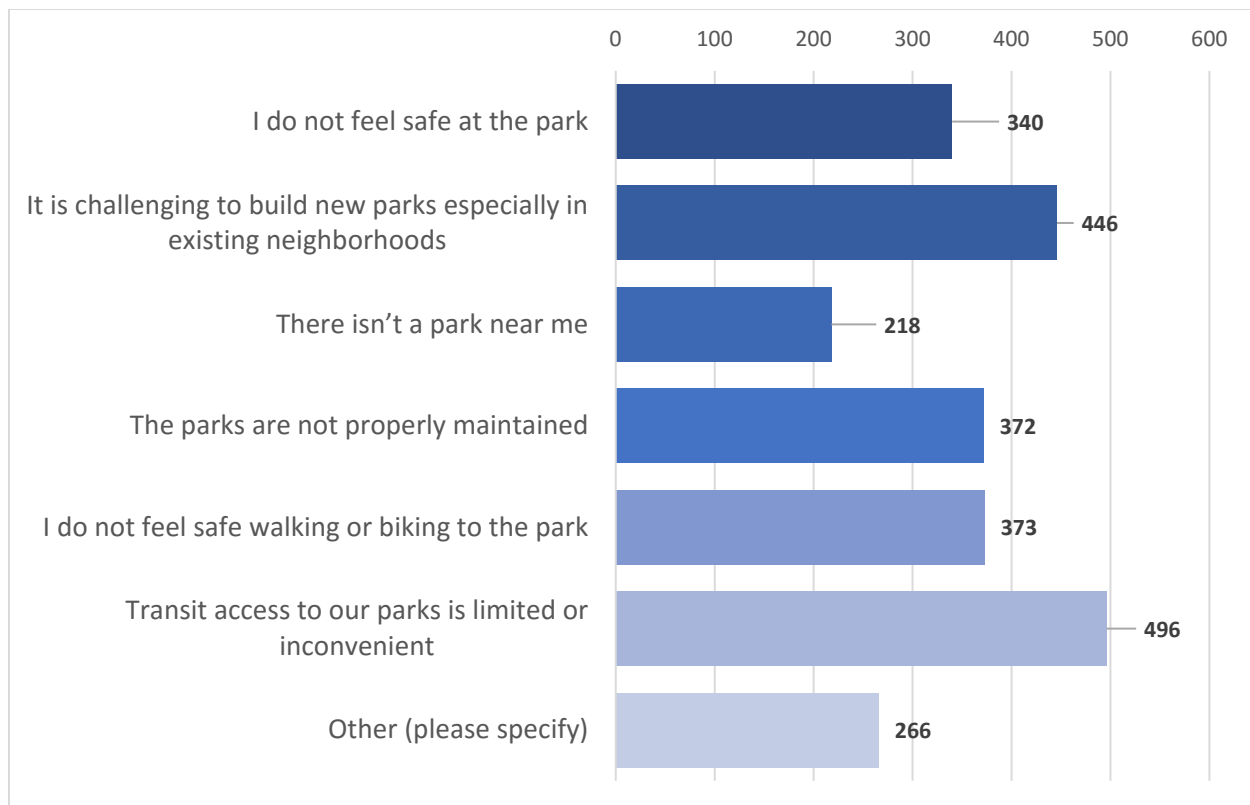


Figure 13. What are your MOST PRESSING concerns as it relates to parks and open space?

Themes	# of concerns	Example (s)
Lack of green spaces	53	There aren't enough parks in Southern Dallas.
Safety and security	50	Significant crime in parks due to lack of security (including lights, cameras, patrolmen, etc.).
Not a concern	31	Parks have very little, if any, on the impacts of the current climate crisis facing humanity.
Physical access to parks	29	As seniors (80+) it is difficult for us to get to city parks. We ask for sidewalks in good condition so that we can at least walk safely in our own neighborhood.
Maintenance	26	The city should do a better job of maintaining the parks we have with the tax money we give them to use.
Lack of amenities in parks	16	Enhance parks with facilities that focus on neighborhood needs.
Lack of integrated and eco-friendly practices	11	I think that our parks and open spaces should strive for a balance between recreation and providing ecological services. I think that integrating native blackland prairies into our parks could have significant impacts on water quality and carbon sequestration in Dallas
Lack of canopy cover	11	So-called parks are mostly sports fields covered by hot grass, with no trees or cooling ground covers.
Lack of funding	5	Our parks are funded inequitably. An area with 14 parks should get funding per park but today it gets lump sum funding per district. So districts with 2 parks have prettier parks.
Urban heat island effect	3	Heat-island effect in our urban core due to lack of green spaces and trees to counteract its effects.

Lack of different types of parks	2	There are no dog parks in Oak Cliff.
Limited public input	2	Too many new parks are built with private charities taking the lead which limits public input and a shared sense of responsibility to the parks.
Loss of tree canopy	2	Stop cutting down trees to build fancy new housing.
Cultural barriers	2	I moved here four years ago and I've noticed that many people do not like to be outside or do not let their children out because they may get dirty or there are too many insects. Children and parents must be educated starting in preschool that being outside as much as possible is healthy. "There is no such thing as bad weather. Just bad clothing" being able to adapt to hot/cold and enjoy nature will reduce using energy in individual homes.
Loss of parks/ open spaces	2	I keep seeing open spaces going to retail and housing development instead of parks.
Job training	1	Professional development and youth jobs.
Not appropriate use of funds	1	We don't need to be wasting public/tax money on parks.
Flooding of park spaces	1	Intensity of storm events with more frequent flooding of parks located in flood plains
Lack of a unified network	1	Dallas doesn't seem to have a unified Parks masterplan.
Lack of arborists	1	Only one arborist in the city of Dallas. Volunteers can't do a lot of tree work because of liability issues. More arborists.
Privately owned public spaces	1	The private ownership of parks and green spaces (e.g., Kyle-Warren) both ensures nice parks will only be in nice, investment-friendly areas, and also sends a message that the government either isn't capable or doesn't prioritize making parks and green spaces for all citizens. Further, because private entities own public green spaces, people don't have the constitutional rights they'd enjoy in public common spaces. As such, activities such as political meetings and demonstrations and public art and theater can be curtailed, robbing those activities of often the only venue in which they can express themselves.
Regulation	1	Not requiring new development to provide public park space.
Miscellaneous	28	
Total	281	

Table 10. Parks and Open space related concerns – observed themes

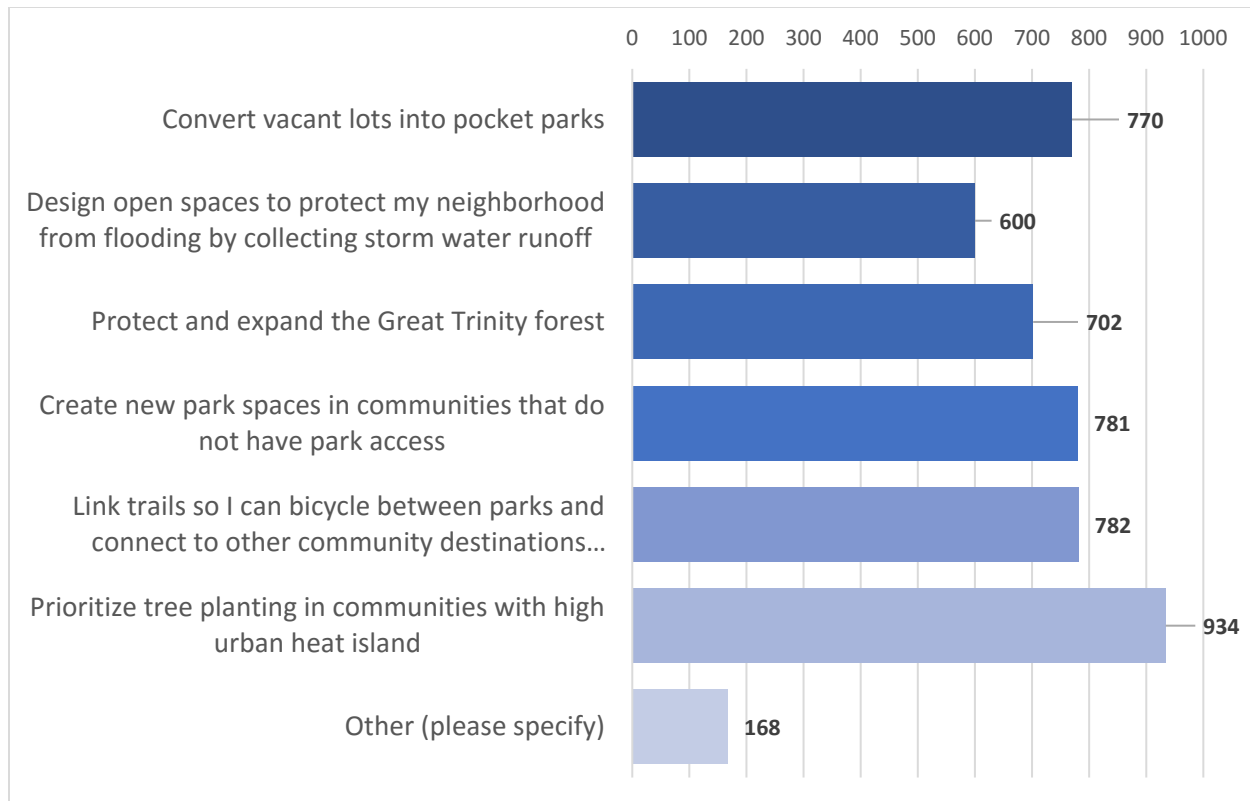


Figure 14. What are some of your ideas that could make this situation (parks and open space) better?

Themes	# of solutions	Example (s)
Build new parks and open spaces	36	Convert surface parking lots into parks and plazas.
Improve safety and security	24	Increase the park ranger program or add safety components to the parks that already exist; safety is perhaps the biggest concern for parks.
Improve access to parks and trails	21	Improve bike lanes/trails to parks, and hold community events at parks to encourage community engagement.
Increase tree canopy cover	16	Plant and maintain new trees where older trees are dying
Improve maintenance	12	Park maintenance should put more effort into detailed cleaning.
Encourage native plants	7	Plant native species in our parks to provide habitat for native Texas wildlife and for the long root systems of these native grasses. The long roots prevent soil erosion and retain stormwater, as well as sequester carbon more efficiently than a forest.
Multi-functional park spaces	6	Create more living examples like the Bunker Sands Wetlands Center.
No action	6	None. There is not proof this condition is harming anyone.
Encourage community involvement	5	Community clean-up programs for parks.
Increase amenities and events in parks	4	Host city conservation events at parks.
Discourage impervious surfaces	4	Restrict the paving of front yards to parking lots.
Diversify types of parks	3	Add a dog park area to either Kidd Springs, Kiest or Martin Weiss park
Protect existing trees	3	Strengthen code prohibiting deforestation , especially by

		developers
Increase access to school play grounds	3	Make local school ground available for recreation after classes and on the weekends.
Avoid green gentrification	2	This is hard because I consider the potential withheld consequences to the impact on the community. We have housing on site. Will new parks subject people to displacement?
Edible landscapes	2	Plant edibles in parks
Reduce urban heat island	2	PRIORITIZE TREE PLANTING IN URBAN HEAT ISLANDS!
Complete planned projects	2	FINISH THE EXISTING BIKE TRAILS! The trail by the Audubon center doesn't loop, so unless you're prepared to bike on Loop 12 and possibly die, you can't really use that trail.
Increase funding	2	Increase park maintenance budget and expand public-private partnerships to efficiently build and maintain public parks and amenities.
Job training	2	Provide jobs and support maintenance of existing parks by training and hiring people recently released from incarceration.
Education and outreach	1	Institute elementary school level education programs that promote an understanding of the relationship between local flora and fauna and quality and sustainability of life.
Landscape irrigation	1	Have a reliable watering program for newly planted trees.
Regulation	1	Strong tree ordinance
Elimination of gasoline powered leaf blowers	1	Work with landscaping firms large and small to reduce and work toward elimination of gasoline powered leaf blowers
Miscellaneous	29	
Total	197	

Table 11. Parks and Open space related solutions – observed themes

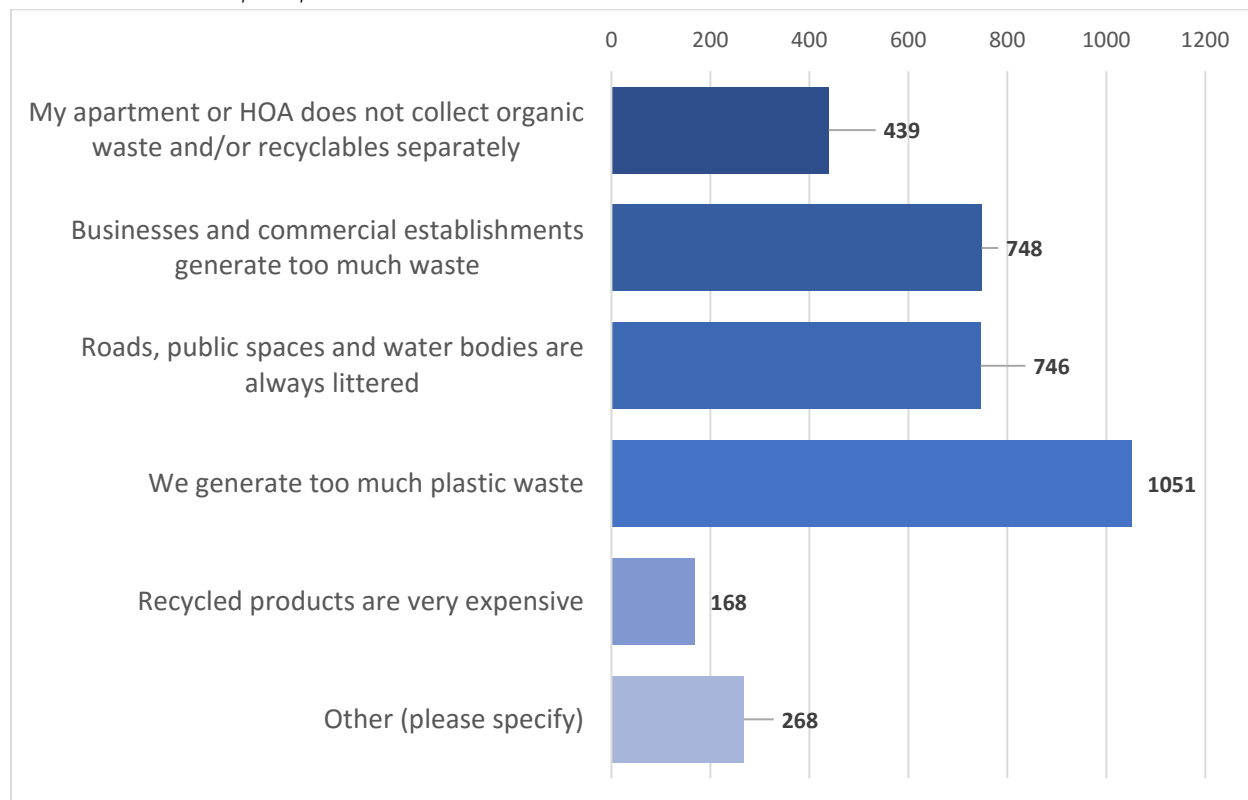


Figure 15. What are your MOST PRESSING concerns as it relates to solid waste?

Themes	# of concerns	Example (s)
Public Education	44	The importance of Recycling should be emphasized for businesses & taught to school-aged children so that it becomes natural for them and their families.
No composting	41	The city NEEDS to offer curbside composting. The recycling ordinance for multifamily buildings was a great start. Keep it going with composting! Also our bulk trash policy is ridiculous. We've got to better regulate that so that large-scale waste isn't clogging landfills.
Need ordinances	35	Businesses should be charged a fee for amount of waste and pollution they provide.
Plastic bags	33	Can we try the bag ban again?
Insufficient Recycling Options	24	A lack of retail locations with bulk-buy/reusable container options; consumers are under-educated on the benefits of using less plastic.
Commercial Recycling	14	Dallas does not collect recycling in commercial businesses.
Recycling Markets	10	weak market for recycled waste; lack of support for reduce and reuse components
Apartment Recycling	9	My apartment has no recycling options available
City landfills recyclables	8	I recycle but it still goes to the landfill
Landfill	6	Stop allowing perimeter cities to buy space in our Dump.
Bulk & Brush Collection	6	Brush and other yard waste is mixed with materials that can't be composted
Not an issue	5	Any large urban environment is going to produce a lot of trash. This problem is unavoidable.
New Technologies	3	This morning I read about a recycling champion company called TerraCycle which works to keep waste out of landfills. It is located in Trenton, N.J. Perhaps the City of Dallas can find a way of working with company.
Collection & Storage issues	3	How well is Dallas recycling g working? I would be willing to have 2 separate kinds of recycling if the bins stayed in the alley
Recycling feels good / isn't answer	2	All these "feel good" measures are not adequate.
Miscellaneous	41	
Total	284	

Table 12. Solid Waste related concerns – observed themes

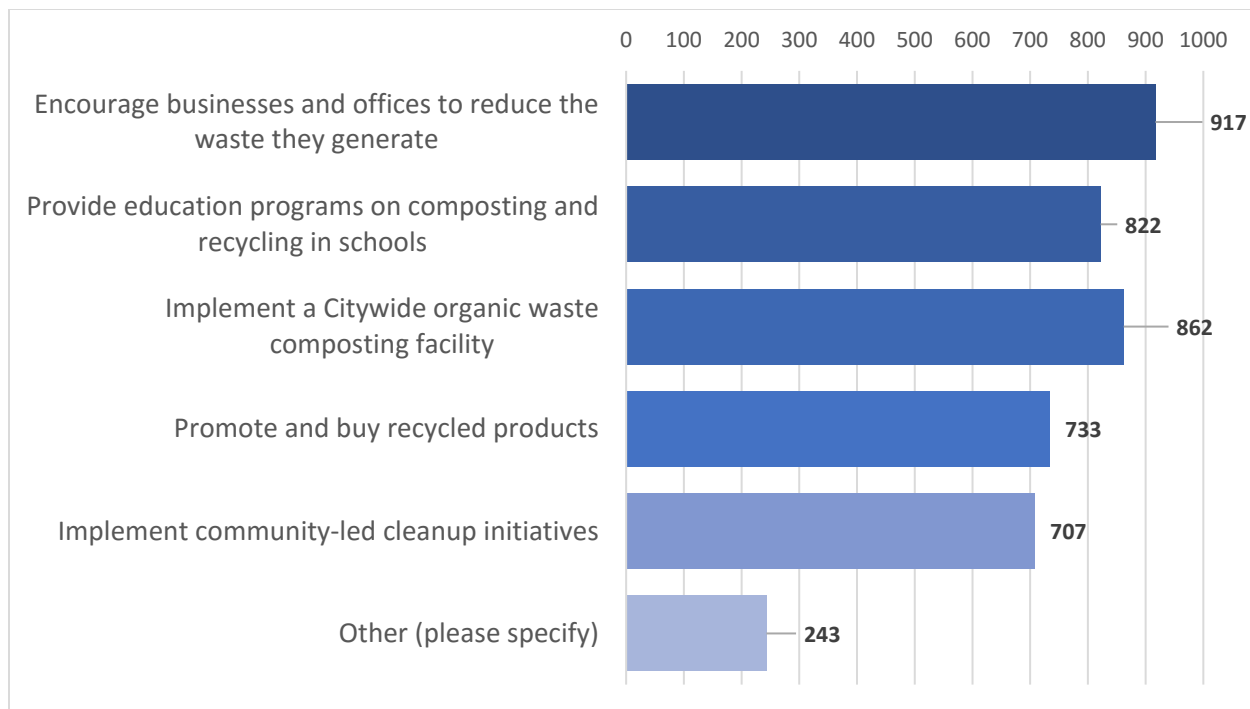


Figure 16. What are some of your ideas that could make this situation (solid waste) better?

Themes	# of solutions	Example (s)
Ordinances and Enforcement	41	There must be consequences for non-compliance. Which also means monitoring and setting regulations.
Composting	33	Organics collection or at least drop-offs need to be piloted
Plastic Bag Ban or fee	31	Fines for not complying and stricter city ordinances. Ban plastic bags and bottles once and for all.
Increase Recycling Options	26	Collect shredded paper it's already sorted and bagged! Recycled products.
Education	24	More emphasis towards a circular economy, rather than simply recycling. In other words, pushing towards packaging being either fully compostable or reusable.
Incentives	21	bottle deposit, other incentives for turning in waste for recycling like other cities have done
Commercial buildings and Restaurants	15	Somehow incentivize businesses to recycle and reduce waste.
Apartment Recycling	14	Make apartment buildings offer recycling
Source Reduction	8	Don't promote recycling. Promote waste reduction. Refuse, replace.
Landfill	7	Ban food waste and landscaping waste from landfill.
Not a concern	6	Most of these initiatives cost money and are ineffective. Preppie get it or they don't. How many people who are pushing this drive big SUVs?
Other	34	Promote the practices of environmental economics and environmental accounting
Miscellaneous	30	
Total	290	

Table 13. Solid Waste related solutions – observed themes

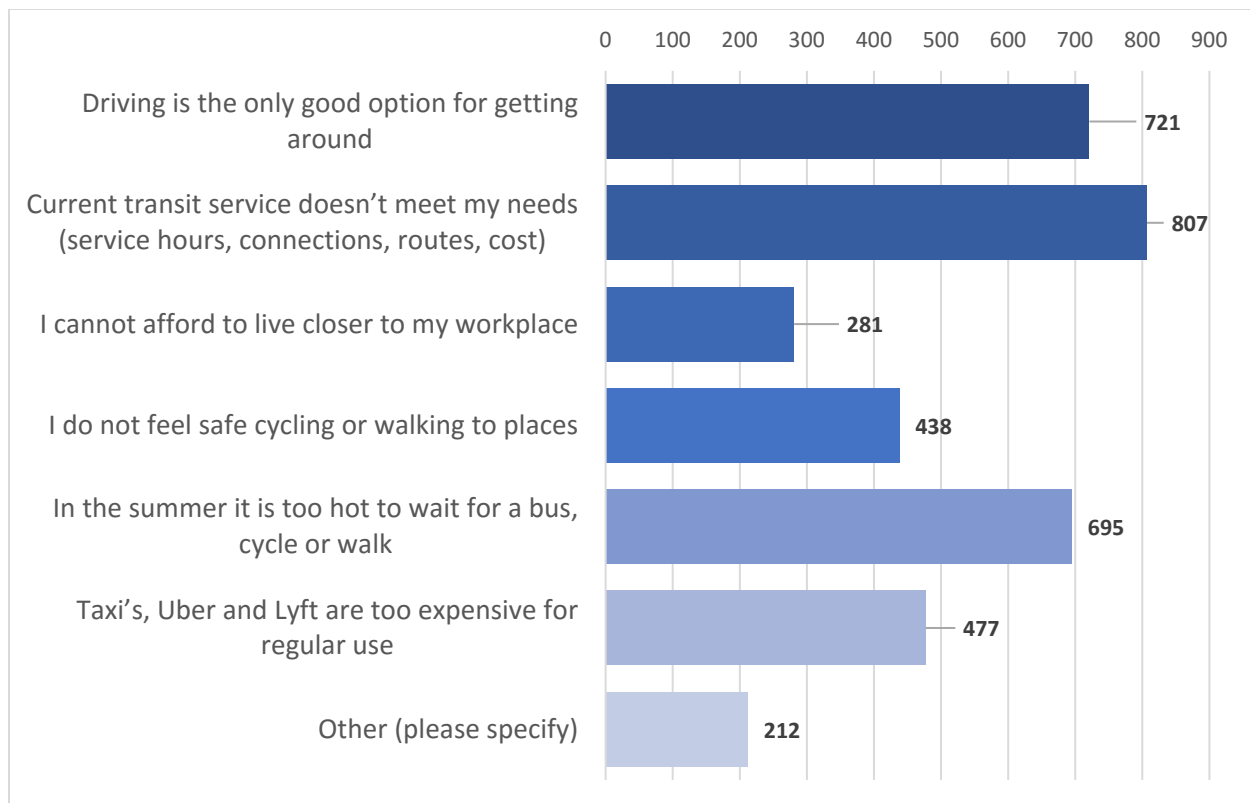


Figure 17. What are your MOST PRESSING concerns as it relates to transportation and land use?

Themes	# of concerns	Example (s)
Active transportation	37	Cycling without dedicated bike lanes is very dangerous. Sharing the lane doesn't work with impatient drivers.
Public transportation- convenience	30	I tried to find a route to use DART but it would take me more than an hour and half to get to work instead of a 30 minute drive to work.
Public transportation- coverage	17	DART train stops are not close enough to residents homes.
Public transportation- safety	21	The bus stations/transit centers are often very unsafe.
Public transportation- affordability	11	DART is inefficient and too expensive considering how inefficient it is. Even considering gas and parking costs, it's cheaper for me to DRIVE to work 15 miles from my house than it is to park and ride the rail. That's a problem.
Freeways and roadways	10	The amount of construction affecting roads causes delays and unsafe driving.
Public transportation- rail system	10	Really need more rail connections for cross town and not just leading into downtown.
Public transportation- infrastructure	11	Our bus stops are not covered and not connected to sidewalks in east Dallas.
Public transportation	18	The public transit system in Dallas (especially buses) is a joke and basically says, "we don't care about the poor and middle-class"
Sprawl	14	Dallas is so sprawled that using mass transportation is impractical and ineffective. It takes as long or longer and is as of more expensive to drive to the nearest public transit location and then get to the destination. We need more

		routes and also to reduce the stigma that Dallas has about how mass transit is only for poor people.
Electric vehicle charging station	3	Charging stations at trans station.
Public transportation- ridership	3	Most people don't want to bother with public transportation. When I ride the Dart, there are many empty seats. Is that program paying for itself?
No concerns	3	None. I can drive anywhere in Dallas as most do.
Public transportation- rural area	2	It's not a possibility for me to use public transit to get to a job in a rural area.
Proximity to jobs	1	Decent jobs are not close to the residents.
Fuel mix	3	Ban sale of gas, diesel and natural gas cars and trucks by 2045.
Land use	4	Every major shopping area/mall is not close to my neighborhood and the one that was has been closed. I have to order mostly everything online.
Public transportation- fare collection	1	1) It is pretty darn easy for people to skip the DART fair. Is it cheaper to let people scam for free? Or to come down in monthly price? It is pretty darn expensive for those that have to ride it to work.
Uber/ Lyft	3	Uber and Lyft are economical and should be encouraged.
Carpool	1	There is no incentive for people to commute together
Public transportation- street car	1	I live near the Oak Cliff street car that goes from Bishop Arts to Union Station. I use it frequently to go downtown, to go to Bishop Arts and to get to the TRE to go to Ft. Worth. There should be more transit solutions like this one!
School bus service	1	Make DISD reduce the VMT of their bus service.
Affordability of personal vehicle	1	The costs of owning and maintaining a safe car are beyond the means of many poor families.
Air quality	1	Idling of gasoline motor
Miscellaneous	26	
Total	233	

Table 14. Transportation related concerns – observed themes

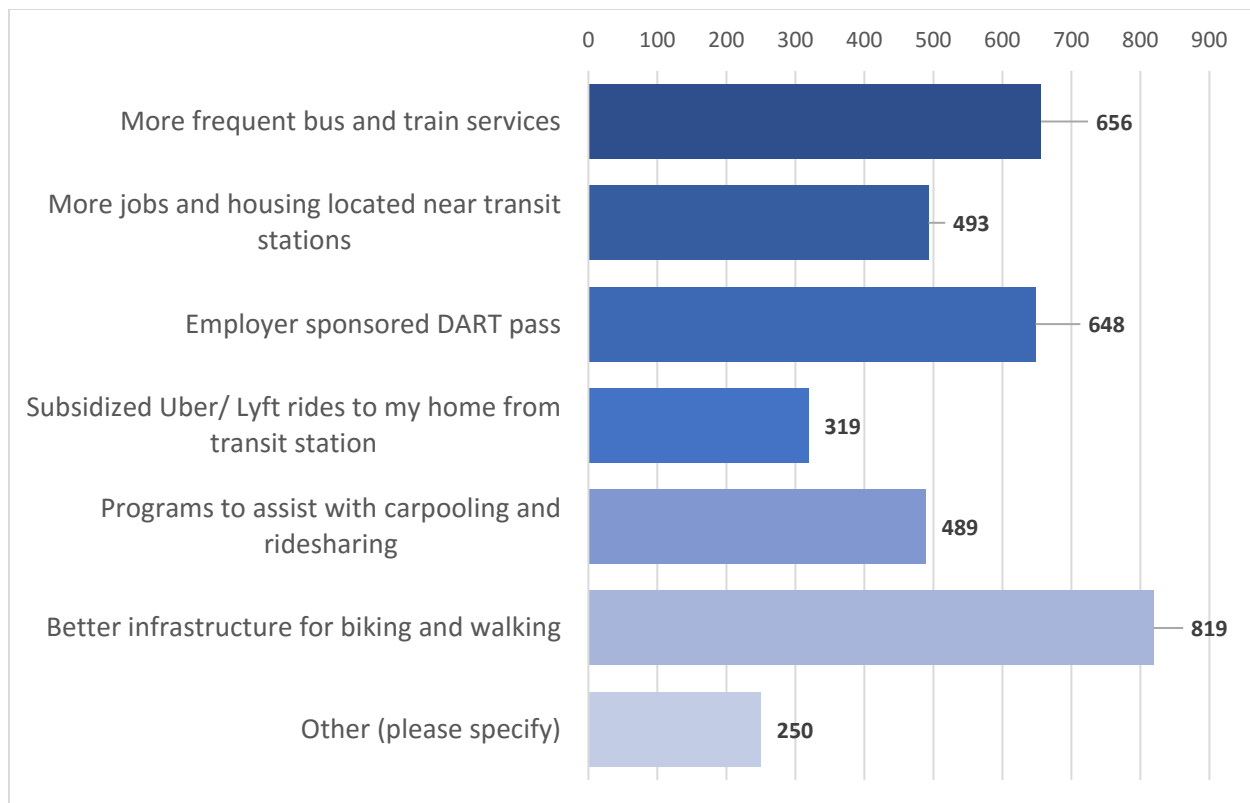


Figure 18. What are some of your ideas that could make this situation (transportation) better?

Themes	# of solutions	Example (s)
Improve public transportation	162	Better DART train infrastructure. Current stops extremely limited.
Alternate fuel vehicles	28	Incentives for people to buy electric vehicles.
Improve active transportation infrastructure	24	Fix all sidewalks and curbs in the city. This is a quality of life issue.
Roadway maintenance + improvement	14	Less traffic congestion so I can drive faster to get to my destinations
Telework	12	Promote more telecommuting and more flexible hours to relieve rush hour traffic. The Texas heat and layout of Dallas makes most other attempts in vain.
Land use	12	Increase density by zoning to multi-family homes
Education and outreach	9	Better education regarding biking for both the bike rider and the car driver, because neither knows what they are doing. I see cars pass bikes within the same lane. I see bikes on sidewalks. Bike riders don't know how to signal anymore.
Rideshare	9	City of Dallas could plug employees' addresses into the map and suggest carpooling groups
Employer incentives	6	Make companies like McDonalds etc. Give retail worker DART passes- collaborate with unions.
Transit oriented development	5	High density around dart rail station and more dart lines (Dallas North Toll)
Air quality	4	Start taxing gas vehicles to pay for the costs paid by all of

		poor air quality. Redistribute the money towards public transportation, medical care for children who develop asthma and respiratory diseases related to air pollution. Invest in separate bike/pedestrian only roads like Katy Trail.
Affordable housing	4	Better planned city. Affordable housing should be close to transport to work (reduce urban sprawl)
Decrease parking requirements	3	Enforce parking maximums of zero on all new developments and slowly penalize existing developments until they convert all their parking to retail or housing.
Scooter/e-bike	1	Subsidized lime and electric scooter rides for the last leg of trip.
Solutions to solve homelessness	1	Office of homeless solutions to finally tackle the issue of homelessness within our city limits. Ever since I can remember my experiences using dart have been very uncomfortable and nerve racking. Having to sit near mentally challenged or drug addicted homeless upset individuals everyday surely persuaded me to just play it safe, drive my own vehicle, waste the gas, run up mileage and take those long rush hour traffic commutes. The homeless need real help and resources if this city wants to be better.
Autonomous vehicles	1	Encourage autonomous ride sharing and help it evolve in Dallas, have the vehicles be electric and clean the air up and lower the cost for all.
Carbon tax	1	Tax carbon emissions
Congestion management	1	Traffic controls downtown, such as systems to help drivers quickly find parking, and thereby reducing the congestion caused by people driving around looking for a place to park. A system to address the congestion caused by delivery drivers and trucks. For example, mobile depots could be a storage facility located closer to a product's endpoint, thereby reducing drivers driving all around town to deliver food and goods.
Miscellaneous	35	
Total	332	

Table 15. Transportation related solutions – observed themes

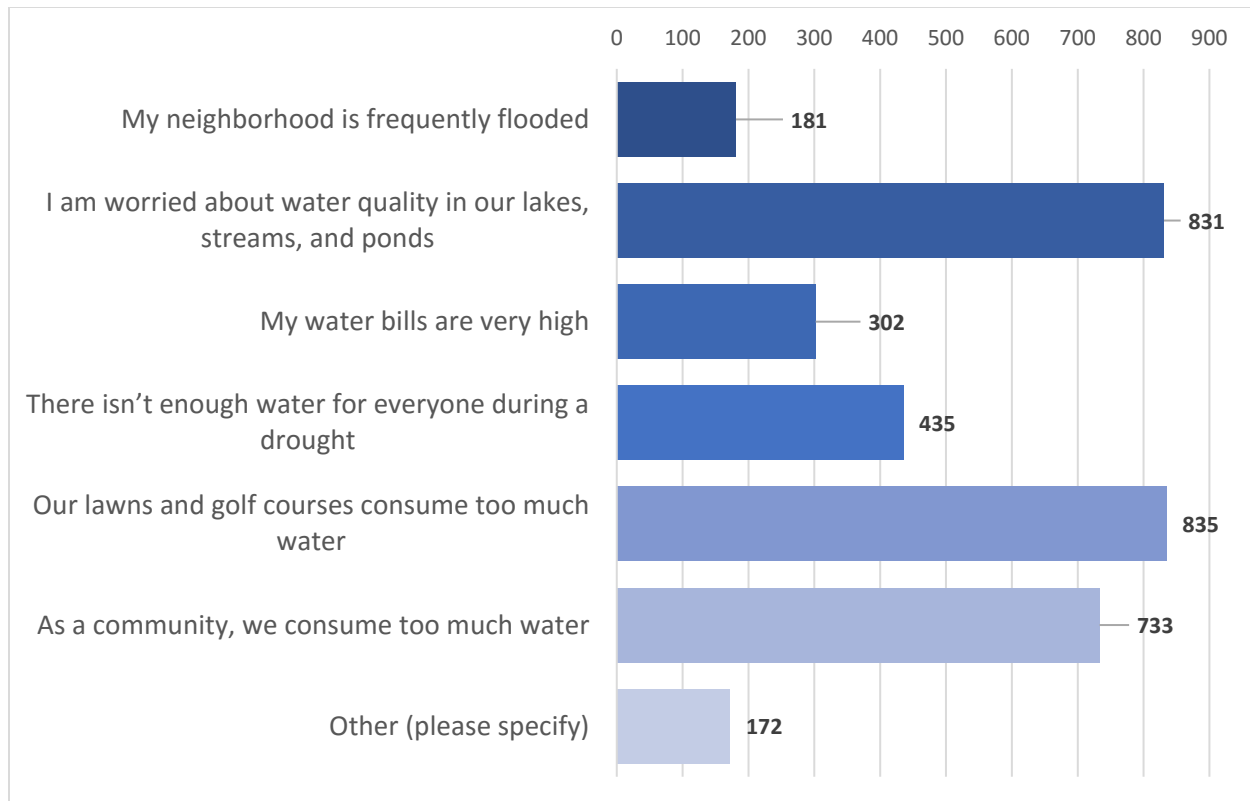


Figure 19. What are your MOST PRESSING concerns as they relate to water and wastewater?

Themes	# of concerns	Example (s)
Landscape	56	Water wise xeriscaping should be encouraged, not penalized
Pollution +water quality	20	I'm concerned about my in house water quality.
Reservoir	14	During times of drought perhaps we should focus on creating more capacity in our lakes. Drench out and/or build new lakes.
Water consumption & wastage	12	We not only consume but waste too much water. City should introduce low-cost affordable rain barrels to citizens who own homes to harness rainwater for garden & lawn watering use.
Flooding and storm water runoff	12	Find more places to store water when it floods.
Industry & businesses	9	Again, industry and businesses will have a MUCH larger impact on water consumption than individual families. Prioritize reducing water consumption for them instead of shaming individuals.
Low water price	9	Our water bills are not high enough to reflect true costs, nor to encourage users to conserve.
Education and outreach	7	Many people are simply not aware of how much water they waste, or why they should care.
Water demand	6	If there isn't enough water in Dallas, then people will have to move to an area where there is enough water.
Residential water use	3	Little incentive to conserve at home.
Impervious surfaces	2	There is significant runoff; too many impervious surfaces.
Recycled water	2	What are we doing to collect and reserve rain water?
Drought	1	Not a water problem unless there is a drought.
Bottled drinking water	1	Bottled drinking water adds waste and cost. Promote home reverse osmosis units that are cheap and convenient.

Pipes	1	Broken water pipes cause lots of waste.
Low impact development	1	Building new residential and some new commercial do not require a minimum drainage plan that includes a bio swale as a natural filtration system to filter the water and then also some type of rainwater holding pond to recycle the water for irrigating the HOA landscaping.
Sell to other cities	1	Dallas sells too much of its water to other cities. Stop!
Leadership	1	City water department is unresponsive and manages the asset poorly.
Miscellaneous	17	
Total	175	

Table 16. Water and wastewater related concerns – observed themes

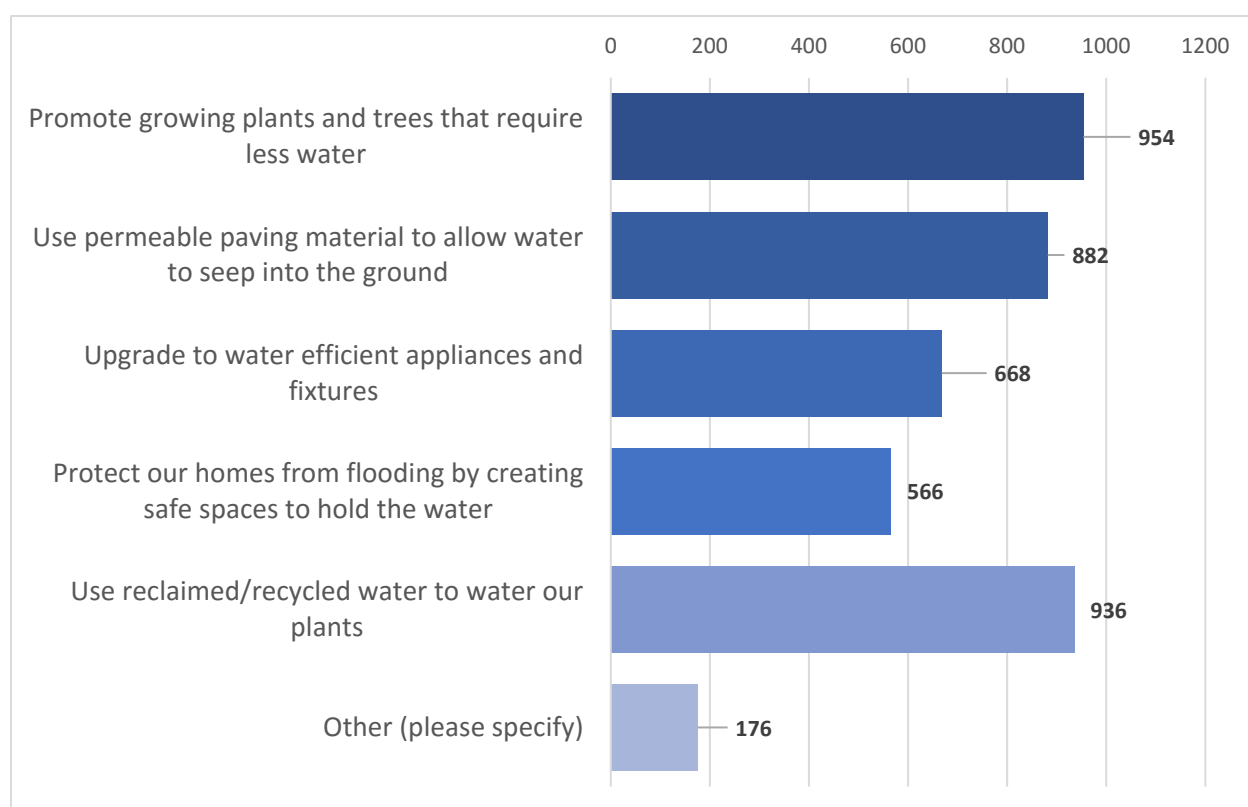


Figure 20. What are some of your ideas that could make this situation (water and wastewater) better?

Themes	# of solutions	Example (s)
Landscape	60	Penalize improper residential watering; businesses allowed only xeric plantings and meadow-like lawns that do not need watering.
Reuse rainwater and greywater	43	Grey water - promote systems to collect grey water to use outdoors or to flush toilets. Rainwater - promote rainwater collection for lawn irrigation.
Education and outreach	21	School and community education of why water conservation is so crucial and how individual and families can make a difference.
Pollution + water quality	15	Promote water testing kits for home water quality checks and services for those who need theirs improved especially

		renters.
Reservoir	11	Build additional lakes.
Decrease impervious cover	9	Decrease concrete work, decrease dark pavement.
Change billing structure	9	Change water billing to create incentives to reduce consumption.
Regulations on water use by sector	9	Incentives: residential and commercial.
Flooding + storm water runoff	8	Easier approvals of permits, specifically to assist with stopping home flooding.
Promote low flow fixtures	7	Require low flow fixtures in new construction.
Low impact development	6	Change building code to limit the amount of rain water that can run off to not exceed the rate it runs off of a flat undisturbed prairie of equal size area. Construct codes to encourage soak areas to manage rain runoff.
Improve drainage	4	Working harder on fixing the drainage.
Modify diet	3	Going vegan is the best way to conserve water because the majority of water depletion is due to food production and animal products are in general the least efficient use of water to produce food.
Co-benefits	3	While also using retained water for parks. We can also use methane captures gas then WWTPs to power homes and other technology requiring gas.
Deploy advanced technologies to manage and monitor water distribution and usage	3	Deploy advanced technologies to manage and monitor water distribution and usage, Advanced Meter Infrastructure citywide, make it a monthly fee to implement and maintain.
Fine littering of waterways	1	Littering is out of control, enforce fines for littering our waterways and streets ...
Bioremediation	1	Use floating islands for bioremediation. The Great Seed Bomb is looking to do this via the Trinity through a #RewildtheCity program.
Privatize water supply	1	Turn the water services over to a private firm
Miscellaneous	21	
Total	235	

Table 17. Water and wastewater related solutions – observed themes

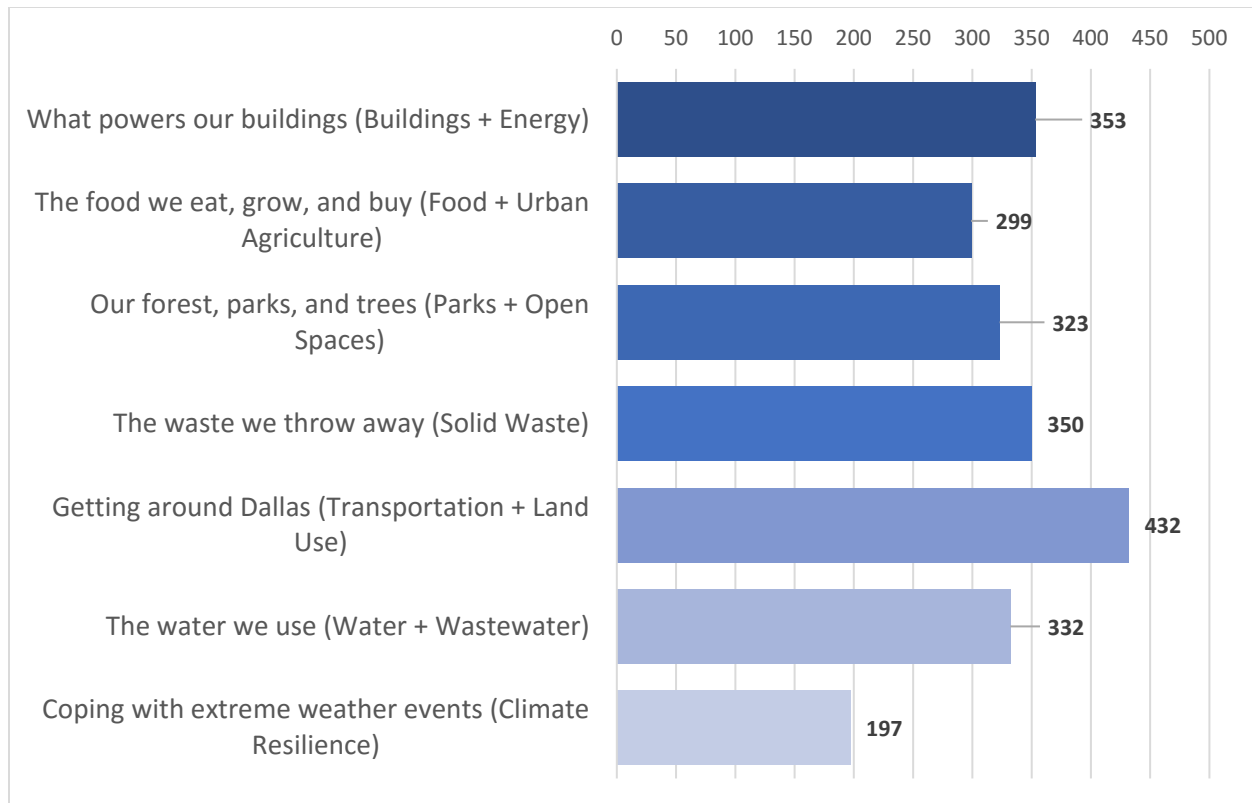


Figure 21. Responses top three priorities

Take-aways

What went well?

- Social media was the most effective means of spreading the word and encouraging participation.
- Earth X was successful at promoting the survey and great way to introduce and kick off the project.
- The survey had a very high number of respondents and a high response rate. The article in the Dallas morning successfully brought in more survey participants.
- Many survey participants were 18 or younger, and teachers/educators had an influential role in encouraging participation.
- Many attendees at the community meetings expressed enthusiasm for the plan and a willingness to share information with their social and professional networks.
- The community meeting format enabled members of the public to share their concerns and ask questions directly to City staff and the technical team.
- There was significant outreach in communities that are not typically engaged in the planning process.

Improvements for round 2

The following suggestions are based on conversations with the Environmental Planning Task Force and Stakeholder Advisory Committee workshops on May 30 and 31:

- Target engagement towards large corporations and businesses. Buy-in and implementation from this community will have a significant emission reduction impact.
- Leverage new mayor, new (and existing) council members in the fall to encourage participation.
- Stakeholder Advisory Committee agreed that conducting meetings in collaboration with other community events (for example, churches and YMCAs in Southern Dallas) will encourage larger turn out. Ensure that locations are neutral, approachable and accessible for everyone.
- The group noted that there was significant outreach in communities that are not typically engaged in the planning process.
- Having the SAC members involved in public engagement efforts will likely increase participation, since the SAC has a wide network of already engaged community members. SAC members agreed to champion some meetings and work with their organizations in the next round.
- Meeting materials will be designed to accommodate remote meetings (meeting in a box. The engagement strategy, and materials will be sent to the committee in advance for review.
- The group also discussed the possibility of forming an engagement sub-committee.
- Outreach strategies should be tailored to a variety of audiences (e.g. businesses, residents, underrepresented groups) independently. Engaging the broader public and the business community should not be in competition with one another.
- The city presented to local groups that requested a meeting with their organization and is willing to advertise the opportunity on the CECAP website for the next round once conditions (e.g. organizations in the City boundary) are agreed.
- SAC members agreed that interactive, online materials should be enhanced, including scheduled webinars and one, or two-minute videos that for example, discuss the relevance of a focus area.

- In the next round, other outreach techniques will need to be explored however, it is the City's duty to continue to host meetings in convenient and neutral locations so that every member of the community has the option to attend.
- If possible, the next round of meetings should be hosted alongside existing events that communities are already attending.
- The Planning & Urban Design Department facilitates significant community outreach efforts. The department circulates a weekly newsletter that reaches over 200 associations and organizations. They will be happy to circulate relevant information for the second round of meetings and outreach.
- The Office of Welcoming Communities and Immigrant Affairs has observed that participation is declining among Hispanic communities due to a general fear under the current political climate. Events that are still well attended tend to be at schools and churches, or other places that are perceived as safe for the Hispanic community. It was recommended that no personal information is requested in the online survey, and that meetings are held in Spanish.
- Look for opportunities to combine different meetings into one to minimize the number of commitments we ask our community to make - meeting fatigue is a barrier to participation.
- The Northwest community center in Vickery Meadows is a trusted and safe location that is well utilized by the surrounding community. An effective way of reaching many people would be to work with the management team and have a booth in the lobby throughout the day. Community members already feel comfortable with the management.
- Robocalls and live streamed town halls are effective means to reach people, although they can be expensive.
- Council members have networks in place to communicate effectively with their constituents. Continue to work with council members in round 2 and encourage them to share information about CECAP events.

Appendix

A. Promotional Flyer (English and Spanish)



HELP MAKE DALLAS A HEALTHIER, CLEANER AND BETTER CITY.

COMMUNITY MEETINGS

HOW CAN CLIMATE CHANGE IMPACT YOUR EVERYDAY LIFE?

Dallas faces increased frequency and severity of heat, drought and weather incidents — all of which can impact your family's health and finances.



HEAT

Longer and hotter heat waves can increase your electric bill.



DROUGHT

Inadequate and low water supplies can lead to higher water bills.



HEALTH

Poor air quality and pollution can cause health problems.



WEATHER

Severe weather can damage your belongings and create costly repairs.

YOU CAN MAKE A DIFFERENCE

Attend one of six community meetings to share your ideas. Learn how you can help create a cleaner, healthier environment in Dallas. Please visit our website for resource materials, take a survey and to ask questions.

GET IN TOUCH

dallasclimateaction.com // DEQS@DallasClimateAction.com // 214-670-1200



Dallas Environmental
Quality & Sustainability



@GreenDallasTX



@GreenDallas

MONDAY, APRIL 29

Beckley Saner Rec Center
114 W. Hobson Ave.
Large Meeting Room
6:00 - 8:00 p.m.

TUESDAY, APRIL 30

Bachman Rec Center
2750 Bachman Dr.
Auditorium
6:00 - 8:00 p.m.

THURSDAY, MAY 2

Martin Weiss Rec Center
1111 Martindell Ave.
Large Meeting Room
6:00 - 8:00 p.m.

MONDAY, MAY 6

Churchill Rec Center
6906 Churchill Way
Large Meeting Room
6:00 - 8:00 p.m.

TUESDAY, MAY 7

Audelia Road Library
10045 Audelia Rd.
Auditorium
6:00 - 8:00 p.m.

THURSDAY, MAY 9

Eastfield College Pleasant Grove
802 S. Buckner Blvd.
Community Room
6:00 - 8:00 p.m.

AECOM

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June 11, 2019



¿CÓMO PUEDE EL CAMBIO CLIMÁTICO IMPACTAR SU VIDA COTIDIANA?

Dallas enfrenta una mayor frecuencia y severidad de los incidentes de calor, sequía y clima, todos los cuales tienen un impacto devastador en la salud y finanzas de su familia.



CALOR

Olas de calor más largas y más caliente puede aumentar su factura de electricidad.



SEQUÍA

Los suministros de agua inadecuados y bajos pueden conducir a mayores facturas de agua.



SALUD

Pobre calidad de aire y contaminación pueden causar problemas de salud.



CLIMA

Clima severo puede dañar sus pertenencias y crear reparaciones costosas.

USTED PUEDE HACER LA DIFERENCIA

Asista a una de las seis reuniones comunitarias para compartir sus ideas. Aprenda cómo puede ayudar a crear un ambiente más limpio y saludable en Dallas. Por favor, visite nuestro sitio en el web para obtener recursos, participar en una encuesta y hacer preguntas.

PONGASE EN CONTACTO

dallasclimateaction.com // DEQS@DallasClimateAction.com // 214-670-1200



REUNIONES COMUNITARIAS

LUNES, ABRIL 29

Beckley Saner Rec Center
114 W. Hobson Ave.
Large Meeting Room
6:00 - 8:00 p.m.

MARTES, ABRIL 30

Bachman Rec Center
2750 Bachman Dr.
Auditorium
6:00 - 8:00 p.m.

JUEVES, MAYO 2

Martin Weiss Rec Center
1111 Martindell Ave.
Large Meeting Room
6:00 - 8:00 p.m.

LUNES, MAYO 6

Churchill Rec Center
6906 Churchill Way
Large Meeting Room
6:00 - 8:00 p.m.

MARTES, MAYO 7

Audelia Road Library
10045 Audelia Rd.
Auditorium
6:00 - 8:00 p.m.

JUEVES, MAYO 9

Eastfield College Pleasant Grove
802 S. Buckner Blvd.
Community Room
6:00 - 8:00 p.m.

B. Venues where flyers were left, organizations contacted, and existing events attended

Venues:

- Community Centers including Bataan, West Dallas Multipurpose Center, Wesley Rankin Center, YMCAs
- Book stores, churches, coffee shops, community and senior centers, recreation centers, retailers, libraries, social service organizations
- Neighborhood associations in South, West, East, Central and North Dallas including Westmoreland Heights Neighborhood Association (provided door to door distribution)
- Non-profits including For Oak Cliff, Trinity Park Conservancy, Goodwill Industries of Dallas, Habitat for Humanity ReStore, The Entrepreneur Center at Redbird, Southern Dallas Progress Community Development Corporation
- Educational organizations including Schools- Dallas Environmental Science Academy, Townview Magnet, Bishop Dunn, UPLIFT, Harmony School of Nature and Science, DCCCD Dallas campuses

Organizations contacted

Anthem Strong Families	Girls Inc.
Antioch Fellowship Missionary Baptist Church	Kessler Park United Methodist Church
Antioch Missionary Church	Greater Dallas Bicyclists
Bachman Lake Together	Greater Dallas Planning Council
Baylor Scott & White	Greater El Bethel
Bishop Arts Merchant Association	Hart Referrals
Bonton Farms	Inspiring Body of Christ
Boy Scouts	Jewish Community Center of Dallas
Builders of Hope CDC	Latino Center for Leadership Development
Cathedral Guadalupe	Lovers Lane United Methodist Church
Catholic Diocese of Dallas	Methodist Health Systems
Chambers of Commerce	NAACP Dallas Chapter
CitySquare	Oak Cliff Bible Fellowship
Cliff Temple Baptist Church	Oak Cliff Presbyterian Church
Concord	Our Lady of Perpetual Help Parish
Dallas Cycling Trailriders	Parkland
Dallas Downriver Club	Paul Quinn College
Dallas Off Road Bicycle Association	Perot Museum of Nature and Science
Dallas Parks Foundation	Potters House
Dallas Running Club	Serve West Dallas
Dallas Sierra Club	St. Anthony's Catholic Church
Dallas Woods and Water Club	St. Luke Community Church
DFW Urban League of Young Professionals	Texas A&M AgriLife Dallas Center
Downtown Dallas Inc	Texas Health Resources
First Presbyterian Church	The Afiya Center
For Oak Cliff- Taylor Toyne's	Trinity River Mission
Friends of Bachman Lake	True Lee Baptist Church
Friends of White Rock Lake	Watermark Community Church
Full Gospel Tabernacle	West Dallas Community Church
Girl Scouts	Young Life

Existing meetings and events:

- Festival of Joy
- First Friday at Farmers Market
- Oak Cliff Earth Day & Green Source DFW Run for the Environment
- La Bajada Neighborhood Association monthly meeting
- Focus on the Future West Chamber Luncheon

- Healthy Kids day color run
- Community Development Corporation, Oak Cliff
- DCCCD Sustainability Summit
- Dallas Sierra Club
- AWMA
- Dallas Environmental Justice Network
- North Texas Climate Change Symposium
- APA Focus North Texas
- STEP Monthly Meeting
- CARTEEH Symposium
- TAMU Law School Energy Symposium
- LAWNT Meeting
- ACCO Climate Training
- Federal Reserve Bank - Sustainability Program
- Lipscomb Elementary G&T 5th Grade
- ASCE-Envi & Water Resources Institute
- Climate Reality
- Lipscomb Elementary Gifted & Talented 5th Grade Science Class
- CECAP Green Bag Lunch
- UTA Graduate Sustainability Class
- EarthX Town Hall
- EarthX Booth Presentation
- Earthx Green Speaker Presentation
- Funky East Dallas Dems
- Climate Reality
- Sun Solar Community Meeting
- EBJ Crime Prevention Summit
- Dallas Bar Association - Envi Section
- Stonewall Democrats

C. Custom responses organized by theme

(See accompanying spreadsheet)