

CECAP: “*NOT* just another pretty Plan on the Shelf”



City of Dallas

Society of Texas
Environmental Professionals

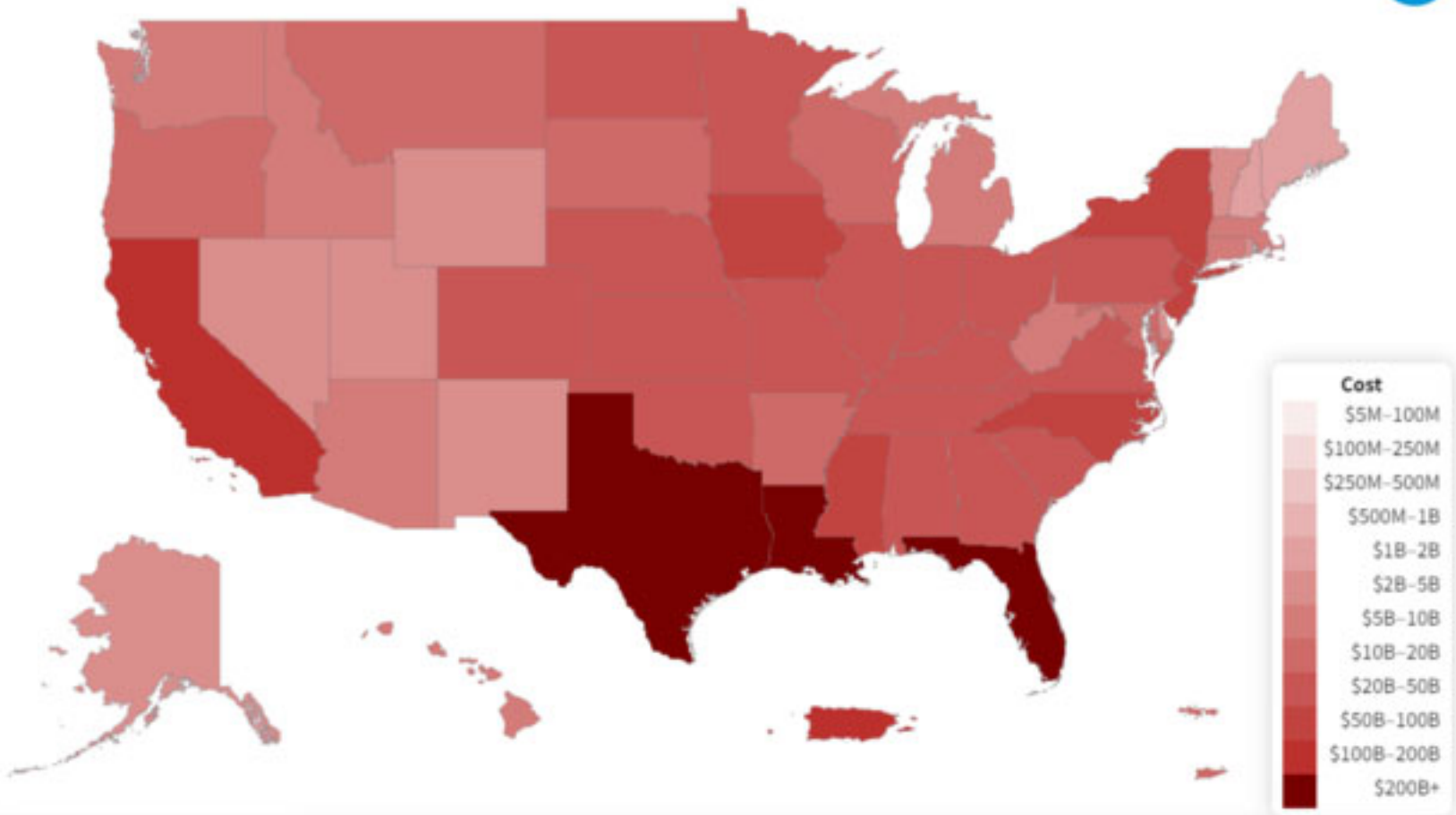
April 29, 2022



ENVIRONMENT & CLIMATE CHALLENGES



1980-2021* Billion-Dollar Weather and Climate Disaster Cost (CPI-Adjusted)



United States

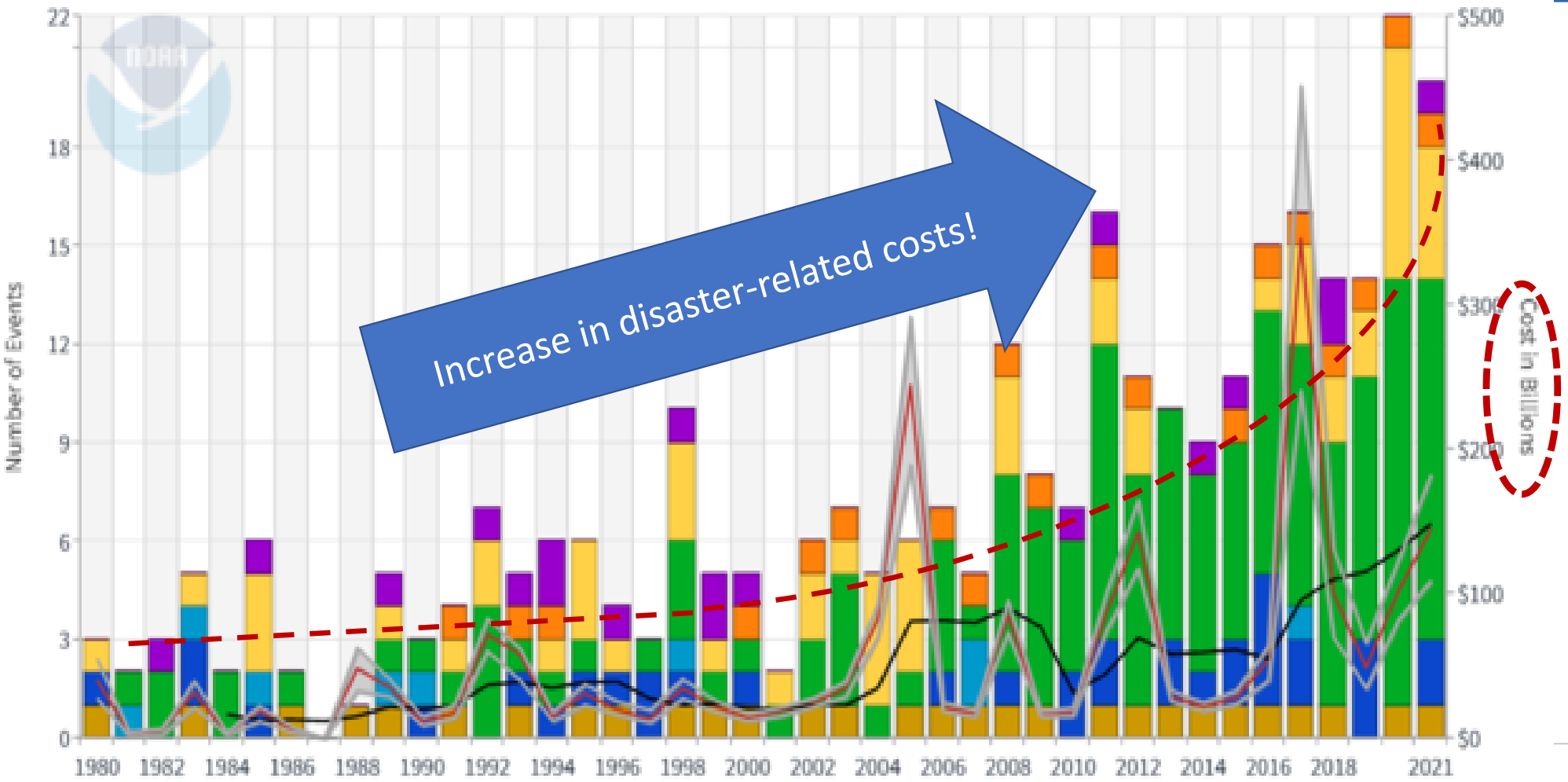
Drought:	\$250B+	Flooding:	\$100B-200B	Freeze:	\$20B-50B	Severe Storm:	\$250B+
Tropical Cyclone:	\$1.1T+	Wildfire:	\$100B-200B	Winter Storm:	\$50B-100B	All Disasters:	\$2.1T+





United States Billion-Dollar Disaster Events 1980-2021 (CPI-Adjusted)

- Drought Count
- Flooding Count
- Freeze Count
- Severe Storm Count
- Tropical Cyclone Count
- Wildfire Count
- Winter Storm Count
- Combined Disaster Cost
- Costs 95% CI
- 5-Year Avg Costs



CECAP

Adopted unanimously by Dallas
City Council on May 27, 2020

“With equity and inclusion as core values, the CECAP proposes solutions that will improve our natural environment, our education and economic outcomes, the affordability of our housing stock, and our transportation systems.”

-Mayor Eric Johnson



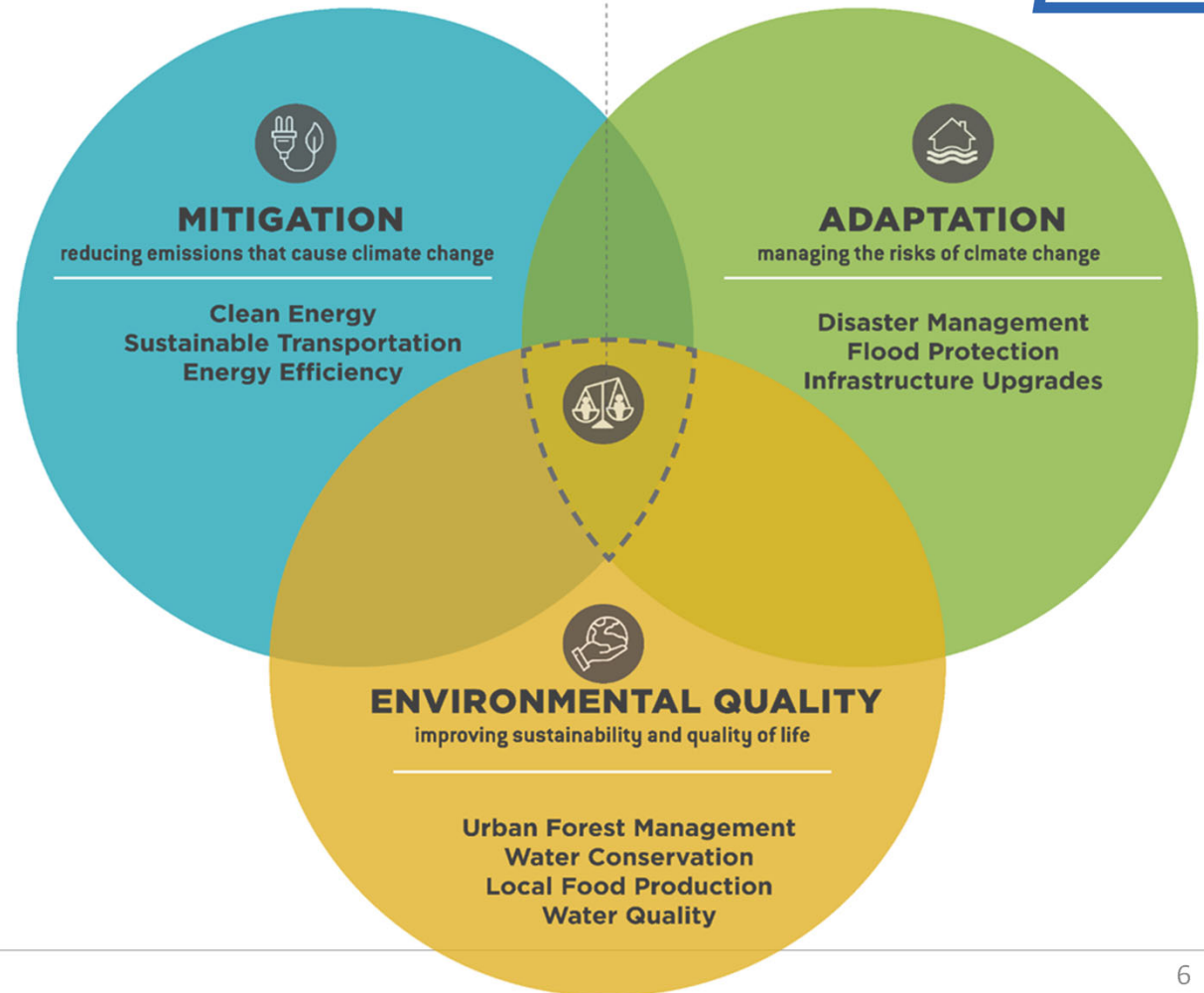
Environmental Justice

ENVIRONMENTAL JUSTICE
prioritizing communities most impacted or most in need across all actions



Environmental justice lies at the center of mitigation, adaptation, and environmental quality.

Many issues are interconnecting, and many actions have multiple benefits.



CECAP: 97 Actions



97
CECAP
Actions

SECTORS / GOALS

PRIMARY BENEFIT

CO-BENEFITS

-  **16**
BUILDINGS
-  **11**
ENERGY
-  **19**
TRANSPORTATION
-  **09**
SOLID WASTE
-  **15**
WATER RESOURCES
-  **09**
ECOSYSTEMS
-  **14**
FOOD + URBAN
AGRICULTURE
-  **04**
AIR QUALITY

-  **45**
MITIGATION
-  **21**
ADAPTATION
-  **20**
ENVIRONMENTAL
QUALITY
-  **11**
ENVIRONMENTAL
JUSTICE

-  **46**
IMPROVE PUBLIC
HEALTH + WELL-BEING
-  **40**
PROVIDE COST
SAVINGS
-  **31**
IMPROVE
AIR QUALITY
-  **28**
PROVIDE EDUCATION,
SKILLS OR TRAINING
-  **24** IMPROVE ACCESS
TO EMPLOYMENT /
JOB CREATION
-  **15**
REDUCE INEQUALITY
+ POVERTY
-  **17**
REDUCE GHG
EMISSIONS
-  **08** INCREASE
NATURAL RESOURCE
CONSERVATION
-  **11**
IMPROVE WATER
QUALITY
-  **13**
REDUCE RESOURCE
CONSUMPTION
-  **10** PROMOTES
ENVIRONMENTAL
STEWARDSHIP
-  **10**
REDUCE
VULNERABILITY



CECAP & UN Sustainable Development Goals



CECAP: FY 20-21 Results



Included 48 CECAP actions that are divided up into 136 milestones for implementation and tracking purposes

Year 1 Results

Complete:	93%
In Progress:	5%
Not Started:	2%

COMPREHENSIVE ENVIRONMENTAL AND CLIMATE ACTION PLAN



IMPLEMENTATION WORK PLAN FY 20-21

BY OFFICE OF ENVIRONMENTAL QUALITY & SUSTAINABILITY
WITH ENVIRONMENT & SUSTAINABILITY TASK FORCE AND
LEADING ENVIRONMENTAL ACTION FORWARD

NOVEMBER 2, 2020



Sustainable Procurement Policy

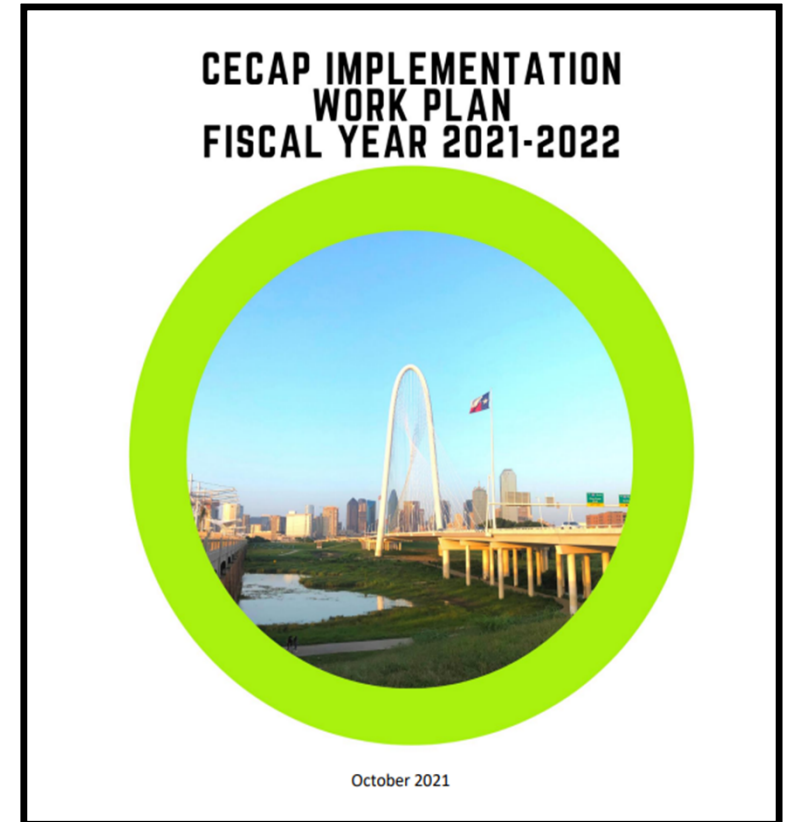
- Resolution # 21-0908 adopted by Dallas City Council in May 26, 2021
- Is a “*comprehensive Sustainable Procurement Policy to guide procurement decisions to positively impact the City's social, economic, and environmental health*”
- Implemented through a Sustainable Procurement Working Group of affected departments
- Sustainable Procurement Working Group is charged with maintaining environmentally preferred products lists, identifying sustainability labels and standards to use in writing specifications, analyzing citywide purchases for efficiency and waste reduction opportunities, and making other recommendations related to the social, economic, and environmental aspects of contracting; these recommendations shall be included in the City's Administrative Directive 4-05, as appropriate.



FY 21-22 Implementation Work Plan



- **73 actions will be activated in FY21-22**
 - **27 new actions**
- **264 Milestones**
 - **82 ongoing milestones**
- **17 City Departments involved**
- **OEQS' has 65 milestones under this plan related to public engagement, urban agriculture, community solar, and weatherization related efforts**



FY 21-22 Highlights: Buildings

10 of 16
Actions



• City Initiatives

- City Energy Management Program and efficiency upgrades
- Net-zero specifications for future capital projects
- Begin implementation of “resilience hubs” on City-owned properties

• Outreach and Education

- Energy efficiency education, including expansion of participation in PACE
- Connect residents to weatherization programs

• Code and Permitting

- Building code amendments that support solar PV and EV charging
- Evaluate SolarAPP+ for solar permitting



38 milestones by Aviation, Building Services,
Housing, Economic Development, Development
Services & OEQS





FY 21-22 Highlights: Energy

9 of 11
Actions



• City Initiatives

- Continue Green Energy Policy for City facilities
- Continue to advocate for renewable energy policies and a resilient energy grid at state and federal levels
- Feasibility studies for resilience hubs and renewable energy hubs

• Solar

- Work towards SolSmart designation
- Continue community solar initiatives
- Continue to require innovative renewable energy as part of the design services for City facilities in new construction or renovation of existing facilities

• Outreach and Education

- Continue renewable energy education
- Encourage green workforce training



28 milestones by Bond & Construction Management, Building Services, Housing, Economic Development, Development Services & OEQS





FY21-22 Highlights: Transportation



- **City Initiatives**

- Continue to align Forward Dallas with the Strategic Mobility Plan and CECAP goals
- Continue fleet electrification with NREL
- Update the 2011 Dallas Bike Plan and add 18+ bike lane miles
- Continue to install publicly available EV charging stations

13 of 19
Actions

- **Reduce Single Occupant Vehicle Trips**

- Work towards NCTCOG 20% SOV reduction goals
- Revise parking code amendment that supports mode-split goals and land use strategies



27 milestones by Aviation, Bond Office, Convention Center, Fleet, Housing, Planning & Design, Dallas Water Utilities Transportation & OEQS





FY 21-22 Highlights: Zero Waste

7 of 9
Actions



- **City Initiatives**
 - Complete Local Solid Waste Management Plan update
 - Begin comprehensive green procurement plan
- **Outreach and Education**
 - Reduce illegal dumping
 - Community Trash Off events, BOPA collection
- **Landfill Diversion**
 - Bulk and brush pilot (6 areas) to explore brush diversion

22 milestones by Code Compliance, Convention Center,
Procurement, Sanitation, Parks, & OEQS





FY 21-22 Highlights: Water Resources

14 of 15



- **Outreach and Education**

- Continue all programs including water conservation, leak detection, water-wise landscaping
- Continue local and regional awareness campaigns
- Irrigation system evaluations

- **Infrastructure Resiliency**

- Continue implementing major drainage infrastructure projects
- Initiate a Storm Drainage System Assessment and planning process
- Continue implementing Drought Contingency Plan
- Continue emergency planning to protect & maintain services of key water infrastructure in the event of extreme weather events

- **Water Quality**

- Continue water quality monitoring and protection
- Continue monitoring for emerging contaminants



59 milestones primarily by Dallas Water Utility, with Convention Center, & OEQS



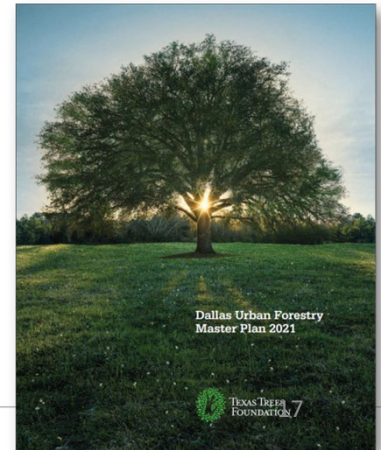


FY21-22 Highlights: Ecosystems & Green Space

7 of 9
Actions

- Green Infrastructure
 - Assess opportunities for blue-green infrastructure to reduce flood risks (Partnership with The Nature Conservancy)
 - Greening factor as part of parking code amendment
 - Nature-based solutions to address public health challenges (i.e., Cool Schools Program)
- Outreach and Education
 - Continue to promote tree-planting efforts, protect trees & prairies, and promote drought-tolerant landscapes
 - Restore Branch-Out Dallas Program
- Urban Forest Master Plan Implementation
 - Initiate Tree inventory
 - Initiate Emerald Ash Borer Plan
 - Identify and designate trees under Article X Historic Tree Status
- City Initiatives
 - Update Parks O&M procedures to include eco-friendly practices

52 milestones by Dallas Water Utilities, Convention Center, Development Services, Public Works, Planning & Urban Development, & OEQS





FY 21-22 Highlights: Food/Urban Agriculture



9 of 14
Actions

- Urban Agriculture Plan
 - Implement Food Advisory Council
 - Continue work on Food & Urban Agriculture Plan
 - Evaluate and develop a plan to remove barriers to growing local food for personal consumption or economic development
- Outreach and Education
 - Provide information on local healthy food
- Food Security
 - Continue Supporting Healthy Dallas Food Initiative
 - Support existing systems related to transportation and food access
 - Develop Food Waste Pilot Program



26 milestones by Economic Development,
Convention Center, Procurement, & OEQS





FY 21-22 Highlights: Air Quality

4 of 4
Actions



- **Outreach and Education**
 - Continue to support NCTCOG Air North Texas Program and Clean Air Action Day
- **Regulatory Air Monitoring**
 - Work with TCEQ to expand network
- **Non-Regulatory Air Monitoring**
 - Expand network by implementing 2 grant programs
 - Build data platform
- **Environmental Justice**
 - Work to expand strategies to address situations with inequitable industrial proximity to residential land use



Air Quality monitor installation at Exline Recreation Center

10 milestones by Planning & Design,
Transportation & OEQS



New Attainment Requirements

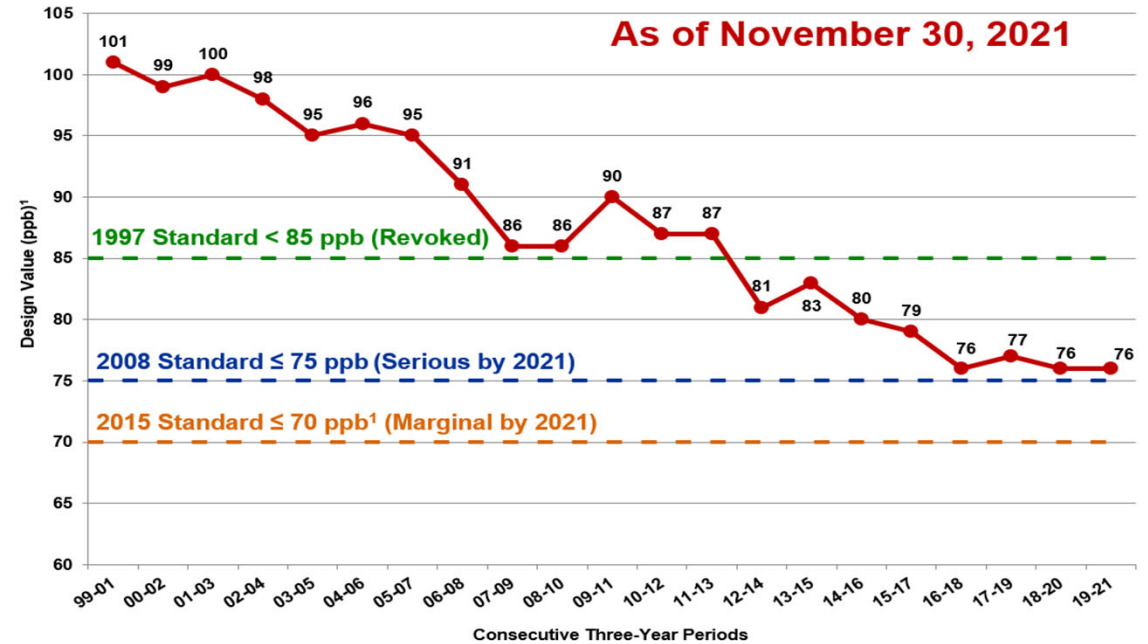


2008 NAAQS (75 ppb) Attainment

- Anticipated reclassification from Serious to Severe
- Attainment date will likely be July 20, 2027

2015 NAAQS (70 ppb) Attainment Date

- Anticipated reclassification from Marginal to Moderate
- Attainment date will likely be August 3, 2024



¹Attainment Goal - According to the US EPA National Ambient Air Quality Standards, attainment is reached when, at each monitor, the *Design Value* (three-year average of the annual fourth-highest daily maximum eight-hour average ozone concentration) is equal to or less than 70 parts per billion (ppb).

Source: NCTCOG TR Dept

Team focus is on assessing impact on the City and advising on how to address the changes



From the IPCC Sixth Report (April 4, 2022)



B.2 GHG emissions have increased since 2010 across all major sectors globally. An increasing share of emissions can be attributed to urban areas....in particular increases from rising global activity in industry, energy supply, transport, agriculture and buildings. (high confidence)

C.7. Buildings are projected to approach net zero GHG emissions in 2050 if policy combining ambitious sufficiency, efficiency, and renewable energy measures, are effectively implemented and barriers to decarbonization are removed.

....well-designed and effectively implemented mitigation interventions, have significant potential to contribute to achieving SDGs in all regions while adapting buildings to a future climate.

Available at: <https://www.ipcc.ch/assessment-report/ar6/>

From the IPCC Sixth Report (April 4, 2022)



C.7.2 Integrated design approaches to the construction and retrofit of buildings have led to increasing examples of zero energy or zero carbon buildings...

- **Design mitigation interventions include:** building typology, form, and multi-functionality and repurposing unused existing buildings to avoid using GHG-intensive materials and additional land.
- **Construction mitigation interventions include:** low-emission construction materials, highly efficient building envelope and the integration of renewable energy solutions.
- **Operations interventions include:** highly efficient appliances/ equipment, the optimization of building use and low-emission energy

D.2.1 Sustainable urban planning and infrastructure design including green roofs and facades, networks of parks and open spaces, management of urban forests and wetlands, urban agriculture, and water-sensitive design can deliver both mitigation and adaptation benefits (*medium confidence*).



Available at: <https://www.ipcc.ch/assessment-report/ar6/>

CECAP: Transparency



Dallas Climate Action

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GOAL 7: ALL DALLAS' COMMUNITIES HAVE ACCESS TO HEALTHY, LOCAL FOOD .

CECAP GOAL 7

Targets

50%, 75%, 100% OF THE POPULATION HAS ACCESS TO HEALTHY, AFFORDABLE FOOD BY 2030, 2040, AND 2050.*

INCREASE BY 20%, 50%, 75% THE ACREAGE OF URBAN GARDENS PRODUCING FOOD BY 2030, 2040, AND 2050.**

INCREASE BY 10%, 25%, 50% OR MORE RESTAURANTS, FARM STANDS, OR MARKETS SOURCING FROM LOCAL PRODUCERS BY 2030, 2040, AND 2050.

- The public can follow along with CECAP progress at DallasClimateAction.com
- This public facing dashboard is updated quarterly

Quarter 1 Progress Reported January 2021



- ◇ Access to healthy food for vulnerable communities in southern and western Dallas is a significant challenge. It has been documented that over 36 percent of Dallas' residents live in census tracts that meet the USDA definition for food deserts. Additionally, the food supply chain is heavily dependent upon food suppliers outside of Texas and the United States. Rising temperatures, changing precipitation patterns and more frequent droughts may result in losses to crops and livestock, and could lead to supply chain issues and increased food insecurity. This is also an area with significant community concern. In FY 20-21, **five actions** from



CECAP: Performance Measurement



Mayor | City Council | City Manager | Departments

Pay



Resident ▾ Visitor Business ▾ Government ▾ News 311 ▾

[Financial Transparency](#)



Dedicated to "Service First"

The City of Dallas is committed to providing excellent service 24 hours a day, 7 days a week, 365 days a year. The Dallas 365 dashboard tracks our progress on 35 performance measures aligned to the City's six strategic priorities. Discover Dallas' story below, and stop by monthly to see the latest data.

Performance Measure: 92% CECAP FY Milestones Implemented



CECAP: Reporting & Tracking



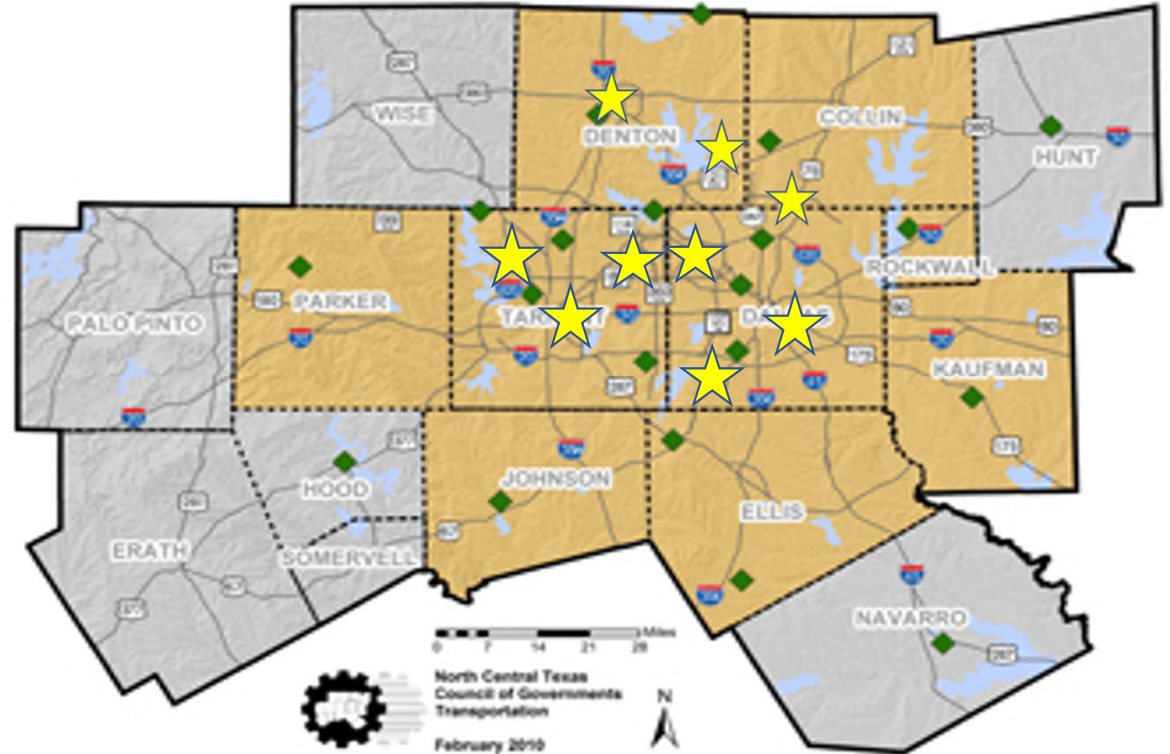
- Milestones are reported monthly by an internal city working group called “LEAF: Leading Environmental Action Forward”
- LEAF includes representatives from 17 city departments



Regional Implementation of Sustainability Efforts



The Regional Integration of Sustainability Efforts (RISE) Coalition, formerly the North Central Texas Stewardship Forum, works to engage interested local governments in peer-exchange opportunities to support sustainability and environmental initiatives.



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City of Dallas

STEP
April 29, 2022

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