

City of Tempe Emergency Management

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Emergency Manager



No more blizzard and ice storm planning!!!



Participation in Maricopa Count Multi-Jurisdictional Hazard Mitigation Plan

- Community Description
- Risk Assessment
- Mitigation Strategy
- Plan Maintenance Strategy

Long-term Asset Management Plan

Municipal Utilities



Resilience/Emergency Preparedness Lens



Tempe's Climate Action Plan

Community Development/Human Services



Resilience/Emergency Preparedness Lens



Urban Forest Master Plan

Community Services/Parks



Resilience/Emergency Preparedness Lens



Plan Integration



Tempe's Multi-Year Training and Exercise Plan: Integrated Preparedness Plan (2021-2024)

- Tempe's HMP
- Tempe's HVA
- Capability Assessments/Corrective Actions /Improvement Plans

Resources and Equipment

Technology

Policies, procedures and Checklists

Training and Exercise

- Preparedness Priorities

Tempe's Heat Mitigation Actions



Hazards Required to Mitigate: Dam Inundation, Drought, Extreme Heat, Flood, Levee Failure, Severe Wind, Subsidence

ID No.	Description	Planning Mechanism(s) for Implementation	Primary Agency / Job Title Responsible for Implementation
	Coordination, Education & Training (For Emergencies & Everyday Life) [informal institutions: HOW]		
7	CERT Trainings: heat vulnerability, relief, staffing of cooling centers and resilience hubs	Climate Action Plan and Emergency Management Plan	Fire Department
33	Trainings for Staff on heat safety	N/A	Risk Management Sustainability Emergency Manager
19	Partnerships with cool clothing producers to distribute clothing supporting heat relief	N/A	Economic Development
28	Coordination with faith-based organizations	N/A	Sustainability Emergency Manager Human Services
16	Public education (incl about clothing), heat safety (everyday life) + signage	N/A	Public <u>Works</u> -Engineering sr. Civil Engineer
13	Trainings for residents on weatherization, energy savings and door-to-door assistance	Climate Action Plan	Human Services Sustainability Engineering and Transportation

Tempe's Heat Mitigation Actions



	New Organizations to be institutionalized		
29	Climate Youth Councils (*) to build a city culture of youth-driven, indigenous informed and arts-enhanced urban cooling	Climate Action Plan	Sustainability Emergency Manager Community Services Human Services
39	Regional resilience collaborative to develop extreme heat solution	Climate Action Plan Update	Sustainability Intergovernmental Officer
40	Task Force for regional extreme heat and racial equity addressing the impacts of extreme heat on communities of color	Climate Action Plan Update	Sustainability Equity and Inclusion Manager Emergency Manager
38	Regional cooling utility (*) that pays for urban forestry, cool <u>material</u> and green infrastructure across Maricopa County	Climate Action Plan Update	Sustainability Intergovernmental Officer

Tempe's Heat Mitigation Actions



	Plans, Codes & Standards: Rules (For Emergencies & Everyday Life) [formal institutions: HOW]		
27	Extreme Heat Action Plan (mapping/lists of vulnerable residents, language capabilities, policy assessment + review to ensure prioritization)	Climate Action Plan and Right to Breathe	Sustainability Emergency Manager
36	Heat Relief Plan for special events including training, communications materials, protocols, heat relief plans, mobile water stations	N/A	Special Events Task Force Emergency Manager Risk Management Sustainability
9	Urban Forestry Master Plan to implement <u>trees+shade</u> in public and private landscapes	Urban Forestry Master Plan	Community Services- Parks and Recreation
4	IGCC adoption w/ shade and cool material additions for new buildings	Climate Action Plan	Community Services
5	New zoning code adoption (incl. walkable urban code supporting shade, elimination of surface parking lots and green infrastructure)	Urban Core Master Plan, Character Area Plans and General Plan	FCDMC with Tempe Public Works - Engineering / Principal Civil Engineer
11	GI Standards adoption promoting bioswales, curb cuts and other stormwater capture technologies and GI Fund (c.f., City of Tucson)	Climate Action Plan	Engineering and Transportation Civil Engineer Community Development Sustainability
31	Maintain databases and inventories and regularly conduct impact assessments on how extreme heat is <u>affecting</u> operations	Climate Action Plan	Sustainability Information Technology
32	Policy work to acquire federal and state resources, incl. LIHEAP and energy block grants. Technical assistance to collect data <u>on</u> impacts of policy, burden, level of need to advocate	Climate Action Plan	Sustainability Intergovernmental Officer Strategic Management and Diversity
30	Research into cool materials efficacy – feasibility study/pilot testing + technical assistance/scenario analysis	Climate Action Plan	Engineering and Transportation Sustainability

Tempe's Heat Mitigation Actions



	Built Environment (For Emergencies & Everyday Life) [infrastructures: WHAT]		
22	Mountain rescue equipment – PPE for personnel (cool clothing) for first responders that conduct rescues in the extreme heat	TFMR Quarterly Newsletter	Emergency Manager
37	Resources and equipment for Medical Examiner office	N/A	Emergency Manager
35	Warning System, incl. nighttime lighting system , at Tempe Town Lake warning system to ensure residents aware of heat warnings	N/A	Municipal Utility Emergency Manager
34	Heat data monitoring for indoor heat monitoring and special events (WiFi sensor system)	Climate Action Plan	Sustainability Information Technology Human Services Community Services
23	Cooling center(s) to provide refuge areas for heat relief	City of Tempe Website- Emergency Preparedness Section	Emergency Manager
24	Amenities for pools (showers, shelters) for heat relief	Parks and Recreation Master Plan	Community Services
25	Additional splash pads to provide heat relief for youth	Parks and Recreation Master Plan	Community Services
26	Resilience hubs and/or ENVISION hubs to provide community resilience	Climate Action Plan	Human Services Emergency Manager Sustainability
12	Mobile generators and AC-units in case of extreme heat emergencies	N/A	Fire Department Emergency Manager
17	Microgrids/solar/local storage for energy resilience during outages/extreme heat events	Climate Action Plan	Transportation and Engineering Energy Coordinator Sustainability
2	Shaded Cool Parks/Islands/Right of way as a system of refuge areas	Parks and Recreation Master Plan and Urban Forestry Master Plan	Community Services: Parks and Recreation
10	Artificial shade structures in heat islands to support pedestrians/customers of businesses	Transportation Master Plan	Community Development Engineering and Transportation Civil Engineer Sustainability

Tempe's Heat Mitigation Actions



1	Transit shelters ... to address heat vulnerability	Capital Improvement Plan and Transportation Plan	Engineering and Transportation Equity and Inclusion Manager Sustainability
8	Streetscape projects that prioritize shade and cooling	Transportation Master Plan and Climate Action Plan	Engineering and Transportation Civil Engineer Sustainability
3	Multi-use + canal paths / streetscapes with 'cooling' shelters, shade, materials	Capital Improvement Plan and Transportation Plan	City Engineer and Transportation and Engineering
21	Public buildings and private residences retrofitting to improve energy efficiency and air conditioning <u>in order to</u> provide heat relief	Water Resources Master Plan	Public Works – Water Utilities / Water Resources Manager
6	GI pilot projects (fire station, Rio Salado, ASU Tempe Campus) using stormwater	Climate Action Plan, Engineering standards and private development standards	Community Development Engineering and Transportation Civil Engineer Sustainability

Thank You!

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