

Appendix D

Climate Adaptation Strategies
Prioritization Criteria and Scoring Tool

City of Lake Elsinore Climate Adaptation Strategies Prioritization Criteria, Scoring Rationale, and Scoring Matrix & Implementation Matrix

This workbook supports the development and prioritization of climate adaptation strategies for the City of Lake Elsinore. It is organized into several tabs that guide the evaluation process from criteria definition through scoring and implementation planning

Tab Name	Content
Prioritization Criteria	<ul style="list-style-type: none">>Lists the evaluation criteria used to rank adaptation strategies (including description and guiding questions).>Includes FEMA STAPLEE (Social, Technical, Administrative, Political, Legal, Economic, Environmental) criteria plus an added Equity criterion to address fairness and disproportionate impacts.
Scoring Rationale	<ul style="list-style-type: none">>Explains the overall scoring system and basis for how each criterion should be applied in scoring.>Contains the full list of proposed adaptation strategies.
Scoring Tool	<ul style="list-style-type: none">>Interactive worksheet where each adaptation strategy is scored against each criterion.>Produces comparative scores to help identify high-priority strategies and allows notes to be added.><u>Those criteria that need additional support and feedback from the City are highlighted in orange.</u>
Implementation Matrix	<ul style="list-style-type: none">>Details key implementation considerations for each strategy, including agencies and departments responsible (primary & supporting), potential partnerships, funding sources, equity considerations, indicators of success, and methods to assess success.>Provides a roadmap for moving from planning to action
Funding Sources	<ul style="list-style-type: none">>Provides a summary of potential funding sources that the City can explore to support the implementation of the proposed climate adaptation strategies.

Criterion	Description	Guiding Questions
Social	Based on the idea that community consensus is a necessary precondition for successful implementation of mitigation measures (i.e., measures should be supported and accepted by the entire community). This also means that measures should not affect adversely a particular segment of the population or a particular neighborhood, or adversely impact local cultural values or resources.	<ul style="list-style-type: none"> - Will the proposed action adversely affect any one segment of the population? - Will it give some disproportionate benefit to only one segment? - Will the action disrupt established neighborhoods, break up legal, political, or electoral districts, or cause the relocation of lower-income people? - Is the action compatible with present and future community values? - Will the actions adversely affect cultural values or resources? - Does the measure treat people fairly? (e.g., social equity, different groups, different generations)?
Technical	Address the technical feasibility of the proposed measures, in terms of effectiveness, secondary impacts, and the technical capabilities of your community to implement and sustain these measures.	<ul style="list-style-type: none"> - How effective is the action in avoiding or reducing future losses? It is important the measures taken are able to achieve the anticipated results, not a fraction thereof. - Will it create more problems than it fixes? - Does it solve the problem or only a symptom? - Is the action technically feasible? Does it solve the problem?
Administrative	Address the administrative capabilities required to implement each mitigation measure. For example, does your jurisdiction have the necessary organization, staff, and funding sources to implement and sustain the mitigation process?	<ul style="list-style-type: none"> - Does the jurisdiction have the capability (staff, technical experts, and or funding) to implement the action, and can it be readily obtained? - Can the community provide the necessary maintenance work required to maintain the method of mitigation? - Can the implementation project be accomplished in a timely manner, without excessive disruption to the community?
Political	Consider the need for political support for mitigation measures. This means that all stakeholders in the political process, especially political organizations and institutions both inside and outside of the community, should support the measure.	<ul style="list-style-type: none"> - Is there political support to implement and maintain this action? - Have political leaders participated in the planning process so far? - Is there a local champion willing to help see the action to completion? - Who are the stakeholders in this proposed action, and how do they feel about the changes that will occur as a result of the action? - Is there enough public support, toward which political leaders are likely to lean, to ensure the success of the action? - Have all of the stakeholders been offered an opportunity to participate in the planning process? - How can the mitigation objectives be accomplished at the lowest "cost" to the public?
Legal	Determine the appropriate legal authority necessary to implement each mitigation measure and whether such an authority can be delegated. In addition, you will examine the mitigation measure from the standpoint of current statutes, codes, ordinances, and other regulations, as well as the possible legal ramifications of the measure's implementation.	<ul style="list-style-type: none"> - Does the government in question have the authority to grant permission or permits for the work that is to be conducted? - Is there a technical, scientific, or legal basis for the mitigation action (i.e., does the mitigation action "fit" the hazard setting)? - Are the proper laws, ordinances, and resolutions in place to implement the action? - Are there any potential legal consequences? - Will there be any issues of liability for the actions or support of actions, or lack of action, by any of the mitigation stakeholders? - Is the action likely to be challenged by stakeholders who may be negatively affected? - Does the jurisdiction have the legal authority to implement the action? Is it legal? - Are there currently sources of funds that can be used to implement the action?
Economic	Address the cost-effectiveness of the proposed measure and its economic impact on the community. It is only reasonable to expect that the benefits of implementation will exceed the costs incurred. Economic considerations also consider the economic impact on the community's future development.	<ul style="list-style-type: none"> - What benefits will the action provide? - Does the cost seem reasonable for the size of the problem and likely benefits? - What financial burden will be placed on the tax base or local economy to implement or maintain this action? - Will the result of the action negatively affect the economy in some secondary manner, such as reducing some form of income generation that was dependent upon the existence of the hazard? - Does the action contribute to other community economic goals, such as capital improvements or economic development?
Environmental	Have become an important consideration in examining mitigation options. Although most mitigation measures are usually beneficial for the environment, some measures may have adverse effects, which must be considered and addressed.	<ul style="list-style-type: none"> - How will this action affect the environment (including land, water, and air resources, and endangered species)? - Will this action comply with environmental laws and regulations? - Is the action consistent with the community's values and goals?
Equity	Recognize that climate adaptation measures should reduce, instead of worsening existing disparities. Actions should prioritize the needs of historically marginalized and vulnerable populations, ensure fair distribution of benefits and burdens, and meaningfully engage underrepresented communities in decision-making.	<ul style="list-style-type: none"> - Will the proposed action reduce disproportionate climate or hazard impacts on disadvantaged, low-income, or historically marginalized communities? - Does the action prioritize investments in communities with the highest unmet needs or highest exposure to risk? - Could the action unintentionally create or worsen burdens (economic, social, or environmental) on vulnerable groups? - Does it promote distributional equity (fair distribution of benefits, resources, and protections)?

Criterion	+1 (Positive)	0 (Neutral)	-1 (Negative)	City Input Needed?	City Comments
Social	Widely supported by the public; improves safety, health, or quality of life	Limited public benefit; unclear support	Likely to face community opposition or cause social disruption	Y	Please advise on expected level of effort using the scores
Technical	Proven, reliable, and feasible with current tools, staff, and knowledge	Some uncertainty or moderate complexity	Unproven, complex, or technically infeasible with current capacity	Y	
Administrative	Easily implemented with existing staff and systems	May require moderate coordination or added effort	Requires major new staff, systems, or administrative burden	Y	
Political	Strong support from elected officials, partners, or key stakeholders	Mixed or unknown support	Faces political resistance or controversy	Y	
Legal	Fully legal and aligned with current codes and regulations	May need clarification, adjustment, or minor permitting	Conflicts with existing laws or regulations; requires major legal changes	Y	
Economic	Cost-effective; low or moderate cost with strong long-term value	Uncertain funding or moderate cost with unclear return	High cost with limited funding or poor cost-benefit ratio	Y	
Environmental	Provides clear environmental benefits (e.g., reduces emissions, improves habitat)	Mixed or neutral effects on the environment	Potential for environmental harm or tradeoffs	Y	
Equity	Benefits frontline, low-income, or historically underserved populations	General benefits without specific equity focus	Risks widening disparities or ignores vulnerable populations	Y	

To City:
We would greatly value your input and review on all of the prioritization criteria.
In particular, we would appreciate additional support and feedback on the **Administrative, Political, and Legal** criteria, as your perspective will be especially important for ensuring these are tailored appropriately for the City's context.

Strategy Name & No.	Social	Technical	Administrative	Political	Legal	Economic	Environmental	Equity	Total Score	Notes
GOAL 1: IMPROVE THE OVERALL CLIMATE RESILIENCE OF THE CITY OF LAKE ELSHORE										
Strategy All-1: Implement and monitor the effectiveness of existing policies, actions, and measures identified in the City and regional entities' existing plans, including, but not limited to the hazard mitigation plan(s), general plan safety element and Western Riverside Adaptation and Resiliency Strategy.	1	1	1	1	1	0	0	0	5	
Strategy All-2: Enhance the climate resilience of existing and new residential and commercial developments by encouraging and incentivizing the use of pervious paving and climate-smart landscaped surfaces to prepare for more frequent extreme heat, drought and flooding events.	1	1	1	1	1	0	0	0	5	
Strategy All-3: Increase the climate resilience of existing and new residential and commercial development through structural strengthening and hardening to adapt to multiple climate change hazards, via updating the City's local building code or adopting targeted amendments to address key climate vulnerabilities.	1	1	1	1	1	1	0	0	6	
Strategy All-4: Avoid the future construction of critical facilities and infrastructure in or near climate change hazard-prone areas.	1	1	1	1	1	1	0	0	6	
Strategy All-5: Collaborate with nearby jurisdictions and Riverside County to protect existing critical facilities and infrastructure from climate change hazards via regular maintenance and retrofitting.	1	1	1	1	1	1	0	0	6	
Strategy All-6: Invest in sustainable backup power sources to provide redundancy and continued services for critical facilities in the event of an outage.	1	1	0	1	1	1	0	0	5	
Strategy All-7: Utilize the best available data and research to understand how climate change hazards may affect the city's transportation system and infrastructure. Collaborate with the California Department of Transportation (Caltrans) to improve the climate resilience of the city's transportation system and infrastructure.	1	0	0	1	1	1	0	0	4	
Strategy All-8: Incorporate considerations of climate change and health equity into all governmental initiatives and fundamental operations. Ensure that public health initiatives serving vulnerable communities address the disproportionate impacts of climate change hazards on these communities.	1	1	1	1	1	0	0	1	6	
Strategy All-9: Integrate climate change considerations into all stages of the City's emergency management planning, encompassing mitigation, preparedness, response, and recovery endeavors.	1	1	1	1	1	1	0	0	6	
Strategy All-10: Consider the impacts of climate change hazards when carrying out the City's evacuation planning. Ensure the planning efforts are consistent with the City's emergency operations plan and general plan safety element.	1	1	1	1	1	1	0	0	6	
Strategy All-11: Enhance the resilience of energy infrastructure systems against climate change hazards by collaborating with Southern California Edison (SCE) to bolster redundancy in the energy network. Ensure the regular maintenance and retrofitting of energy infrastructure to prepare it for climate change hazards.	1	0	0	1	1	1	0	0	4	
Strategy All-12: Maintain and update the City's website with information about current climate change hazards. Enhance the monitoring of these hazards to ensure rapid response and recovery. Coordinate with SCE on the notifications of power outages due to climate change hazards.	1	1	1	1	1	1	0	0	6	
Strategy All-13: Increase public awareness of climate change hazards and how to prepare for such hazards via the regular community outreach events hosted in the city. Improve collaboration and information sharing among the City, other public agencies, community-based organizations, and vulnerable communities.	1	1	1	1	1	0	0	1	6	
Strategy All-14: Identify potential locations throughout the city as new community resilience centers or "resilience hubs", either through new construction or repurposing of existing facilities. Resilience hubs provide places of refuge for vulnerable community members during power outages, extreme weather events, wildfires, or other climate change hazards.	1	0	0	1	1	0	0	1	4	
Strategy All-15: Establish backup power and water resources at emergency shelters and cooling centers in case of power outages due to climate change hazards.	1	0	0	1	1	1	0	1	5	
Strategy All-16: Coordinate with the County of Riverside Continuum of Care and other existing programs to ensure that emergency shelters are available during climate change hazards. Ensure that vulnerable communities are made aware of these resources.	1	1	1	1	1	0	0	1	6	
Strategy All-17: Enhance the climate resilience of existing and new residential and commercial development by promoting structural hardening, pervious surfaces, and climate-smart landscaping to address multiple hazards such as extreme heat, flooding, and wildfire. This may include updates to the City's building code, targeted retrofits, and incentives or support for resilience upgrades, particularly in disadvantaged communities, mobile home parks, and other vulnerable areas.	1	0	0	0	1	1	0	1	4	
GOAL 2: PREPARE FOR MORE FREQUENT DROUGHT EVENTS AND ENHANCE THE CITY'S OVERALL WATER SUPPLY RESILIENCE										
Strategy Drought-1: Partner with EVMWD to evaluate the vulnerability of the local water supply systems and networks to climate impacts and develop strategies to enhance the resilience of these systems.	1	1	0	1	1	0	0	0	4	
Strategy Drought-2: Collaborate with EVMWD and expand upon existing water conservation-related education and outreach programs for the City's residents and businesses.	1	1	1	1	1	1	0	0	6	
Strategy Drought-3: Collaborate with federal, State, and local agencies and organizations to identify future water supplies and explore alternative supply sources.	1	0	0	1	1	0	0	0	3	
Strategy Drought-4: Implement systems to capture and store stormwater for reuse in irrigation, landscape maintenance, or non-potable uses. Encourage the installation of greywater and water recycling systems to reuse water for irrigation purposes.	1	0	0	1	1	1	0	0	4	
Strategy Drought-5: Collaborate with regional water agencies to stabilize water levels in Lake Elsinore, using supplemental water sources if necessary to maintain the Lake's ecological health and recreational value. Restore the Lake's surrounding wetlands and riparian zones to enhance water retention, improve water quality, and support biodiversity.	1	0	0	1	1	1	1	0	5	
Strategy Drought-6: Consider amending the City's Uniform Building Code to require development projects to reduce indoor water consumption by 30% (consistent with 2025 CALGreen Tier 1, Section A5.303.2.3.1), and implement through conditions of approval.	0	1	0	0	1	1	0	0	3	Given that the City proposed to change language to say "Consider", I selected 0 for Social, Admin, and Political.
Strategy Drought-7: For outdoor irrigation, recommend using automatic timers and adjusting watering schedules to the cooler hours between 6 p.m. and 8 a.m., instead of the current municipal code hours of 5 p.m. to 9 a.m.	1	1	1	1	1	1	0	0	6	
Strategy Drought-8: Encourage the adoption of advanced irrigation techniques such as drip irrigation, moisture sensors, and weather-responsive controllers to enhance water efficiency and promote sustainable landscaping practices. Incentivize planting native and drought-tolerant plants that require less watering instead of traditional lawns.	1	0	0	1	1	1	0	0	4	
Strategy Drought-9: Restrict water use during construction activities to only those purposes required by regulatory agencies when using water from a construction water trailer, or water truck.	0	1	1	1	1	1	0	0	5	
Strategy Drought-10: Encourage the installation of water-saving devices for indoor and outdoor uses, including but not limited to open hoses equipped with automatic and positive shutoff nozzles, low-flow showerheads and faucet aerators for residential and commercial buildings, and recirculating pumps for swimming pools, fountains, and other water features.	1	1	1	1	1	1	0	0	6	
Strategy Drought-11: Collaborate with EVMWD to offer residential and commercial customers water efficient rebate to upgrade their properties and fixtures.	1	1	0	1	1	1	0	0	5	
Strategy Drought-12: Encourage and expand the implementation of drought-resistant green infrastructure such as street trees and landscaped areas to enhance cooling in both public and private spaces.	1	1	1	1	1	1	0	0	6	
GOAL 3: PREPARE FOR INCREASED TEMPERATURES AND MORE FREQUENT EXTREME HEAT EVENTS										
Strategy Temp-1: Enhance the City's emergency preparedness and response efforts regarding extreme heat events by developing or enhancing proactive early warning systems. Consider collaborating with Riverside County or creating the City's own heat action plan.	1	0	0	1	1	0	0	0	3	
Strategy Temp-2: Use reflective or permeable pavement materials that reduce heat absorption and mitigate the heat island effect, particularly in parking lots, sidewalks, and streets.	1	1	0	1	1	0	0	0	4	
Strategy Temp-3: Collaborate with SCE to prepare the City's electric substations as well as transmission and distribution lines for more frequent by extreme heat conducted by underground, transformers, and other critical components with materials that are better suited to withstand higher temperatures, as well as improving the insulation on transmission and distribution lines to prevent overheating.	1	1	0	1	1	1	0	0	5	
Strategy Temp-4: Partner with SCE to implement load management strategies and demand response programs to reduce strain on electric substations and transmission lines during extreme heat events.	1	0	0	1	1	1	0	0	4	
Strategy Temp-5: Revise the City's municipal code to require new development to plant at minimum two 15-gallon non-deciduous, umbrella-form trees per 30 linear feet of boundary length near buildings through the development review process. Trees shall be planted in strategic locations around buildings or to shade pavement in parking lots and streets.	1	1	0	1	1	0	1	0	5	
Strategy Temp-6: Consider amending the City's municipal code to require new non-residential development to use roofing materials having solar reflectance, thermal emittance or solar reflectance index consistent with 2025 CALGreen Tier 1 values (Table A5.106.11.2.1) and implement through conditions of approval.	0	1	0	0	0	1	1	0	3	Given that the City proposed to change language to say "Consider", I selected 0 for Social, Admin, and Political.
Strategy Temp-7: Employ passive solar heating techniques whenever possible with new development projects. Such techniques involve, but are not limited to, orienting buildings properly, planting trees to take advantage of the sun, as well as ensuring adequate roof overhangs and proper wall insulation.	1	0	0	1	1	1	1	0	5	
Strategy Temp-8: Work with the California Division of Occupational Safety and Health and employers to provide outdoor workers with sufficient training regarding protection from extreme heat conditions, ensuring the maintenance of healthy and safe working environments.	1	1	1	1	1	0	0	1	6	
Strategy Temp-9: Coordinate with Riverside Transit Agency to increase shading and heat-mitigating materials on pedestrian walkways and transit stops.	1	0	0	1	1	0	1	1	5	
Strategy Temp-10: Restore and enhance plant habitats for natural shading and cooling.	1	0	0	1	1	0	1	0	4	
Strategy Temp-11: Reduce public exposure to extreme heat by expanding access to drinking water and shaded spaces in parks, schoolyards, and recreational facilities with a focus on equity and prioritization of underserved communities and high-heat zones.	1	1	0	1	1	0	1	1	6	
GOAL 4: PREPARE FOR MORE FREQUENT EXTREME PRECIPITATION, FLOODING, LANDSLIDE, MUDFLOW, AND DEBRIS FLOW EVENTS										
Strategy Flood-1: Implement the Master Drainage Plan adopted by the City in April 2023. Continue to update studies that outline flood hazard areas outside of the Master Drainage Plan.	1	1	1	1	1	0	1	0	6	
Strategy Flood-2: Ensure that new construction activities in floodways and floodplains conform to all applicable provisions of the National Flood Insurance Program to protect from flooding.	1	0	0	1	1	1	0	0	4	
Strategy Flood-3: Utilize the City's Capital Improvement Program for storm drainage projects and maintenance and improvement of local storm drain systems including but not limited to channels, pipes, and inlets to ensure capacity for maximum runoff flows.	1	1	1	1	1	1	0	0	6	
Strategy Flood-4: Identify and address areas with poor drainage to lower disease risks associated with stagnant water. Enhance education and outreach initiatives to inform communities about potential increases in vector-borne diseases due to stagnant water.	1	1	0	1	1	0	1	0	5	
Strategy Flood-5: Encourage retrofits of hardscaped areas to use permeable paving. Permeable paving can also mitigate the heat island effect, as specified in Strategy Temp-2.	1	1	1	1	1	0	0	0	5	
Strategy Flood-6: Restore riparian corridors, soft-bottomed streambeds, and seasonal flood basins to help mitigate flood hazards.	1	0	0	1	1	0	1	0	4	
Strategy Flood-7: Encourage the creation of floodway setbacks for greenways, trails, and recreation areas while discouraging development within floodways.	1	0	0	1	1	0	1	0	4	
Strategy Flood-8: Mandate the construction of channel improvements designed to accommodate 100-year flood flows where applicable. Promote drainage improvements that maintain a natural or semi-natural floodplain.	1	0	0	1	1	0	1	0	4	
Strategy Flood-9: Promote low-impact development practices in new construction projects. Low-impact development is a land use and engineering design approach that aims to manage stormwater runoff and protect water quality.	1	0	0	1	1	0	1	0	4	
Strategy Flood-10: Assess new development applications for potential flood hazards through project review and California Environmental Quality Act processes using Federal Emergency Management Agency (FEMA) regulations and mapping data. Require compliance with FEMA Special Flood Hazard Area requirements for projects located within or adjacent to designated flood hazard areas, or when site-specific conditions indicate a flood risk.	1	1	1	1	1	1	0	0	6	
Strategy Flood-11: Coordinate with EVMWD and other sanitation districts and waste management agencies to improve sewage and solid waste management infrastructure to lessen the occurrences of floodwater contamination, thereby reducing the spread of pollution and degraded water quality.	1	0	0	1	1	0	1	0	4	

Strategy Flood-12: Coordinate with Riverside County Flood Control and Water Quality Management District to identify new locations suitable for multi-benefit flood control that encourage groundwater recharge and habitat restoration.	1	0	0	1	1	0	1	0	4	
Strategy Flood-13: Retrofit and/or relocate infrastructure and critical facilities exposed to flooding and landslide hazards to make them more resilient to such hazards, based on GIS-based spatial analyses.	1	0	0	1	1	1	0	0	4	
Strategy Flood-14: Ensure the regular maintenance of water and wastewater infrastructure and facilities to prepare them for extreme precipitation events.	1	1	1	1	1	0	0	0	5	
Strategy Flood-15: Assess and map areas with bare soil or significant disturbance due to natural hazards such as wildfire events and/or anthropogenic changes to prioritize restoration efforts. Implement targeted restoration activities where feasible by selecting appropriate vegetation, applying erosion control measures, and following best management practices.	1	0	0	1	1	0	1	0	4	
Strategy Flood-16: Partner with Riverside County Flood Control and Water Quality Management District, Riverside County, and National Weather Service to deliver robust multilingual education and outreach materials accessible across multiple media forms (e.g. radio, text messaging) to publicize information regarding potential day-to-day flood risk, key terminology, emergency supplies, pet protection, electrical safety, and evacuation routes in the case of flooding.	1	1	1	1	1	0	0	1	6	
GOAL 5: PREPARE FOR AND ADAPT TO INCREASED WILDFIRE RISK										
Strategy Fire-1: Promote programs aimed at raising public awareness of regional air quality issues and highlighting actionable solutions and improvement opportunities.	1	1	1	1	1	0	1	0	6	
Strategy Fire-2: Implement ongoing brush clearance requirements and establish low-fuel landscaping policies to minimize combustible vegetation near the urban-wildland interface.	1	1	1	1	1	0	0	0	5	
Strategy Fire-3: Strengthen defensible space inspections in wildfire-prone areas. Create fuel modification zones around developments within high wildfire hazard areas by clearing combustible vegetation within 100 feet of such developments. The fuel modification zone size may be altered with the addition of fire-resistant building techniques.	1	0	0	1	1	0	0	0	3	
Strategy Fire-4: Perform fuel reduction projects throughout the city to reduce fire potential. Develop a wildfire risk reduction assessment that the City can use for new development in wildfire-prone areas.	1	0	0	1	1	0	0	0	3	
Strategy Fire-5: Develop and enforce construction and design standards that ensure the development project incorporates fire prevention features. Encourage the use of fire-resistant building techniques for new developments such as non-combustible wall surfacing materials, enclosed materials and features, and automatic fire sprinklers.	1	1	1	1	1	1	0	0	6	
Strategy Fire-6: Promote programs that educate city residents about the threat of human wildfire origination from residential practices such as outdoor barbecues and from highway use, such as cigarette littering.	1	1	1	1	1	1	0	0	6	
Strategy Fire-7: Continue to follow Riverside County Fire Department's most current guidelines to achieve standard response times and staffing levels to prepare for wildfire events.	0	1	1	1	1	0	0	0	4	
Strategy Fire-8: Establish neighborhood and building design standards that minimize wildfire hazards in very high and high fire hazard severity zones. Create wildfire protection zones that reduce the risks to citizens and firefighters from fire dangers.	1	0	0	1	1	1	0	0	4	
Strategy Fire-9: Initiate wildfire fuel management practices in parks and open spaces.	1	0	0	1	1	0	-1	0	2	Environmental receives a -1 assuming the air quality degradation from prescribed burn
Strategy Fire-10: Collaborate with Riverside County and regularly maintain existing fire roads throughout the city to provide fire department access.	1	0	0	1	1	1	0	0	4	
Strategy Fire-11: Implement long range fire safe planning through code adoption/policies consistent with the City's General Plan Public Safety, Noise, and Air Quality Element.	1	1	1	1	1	0	1	0	6	
Strategy Fire-12: Work with the California Department of Forestry and Fire Protection (CAL FIRE) and the Riverside County Fire Department to map and identify locations that are newly at risk, or at risk for fire hazards because of climate change; implement wildfire mitigation best practices such as maintaining defensible spaces and fire breaks, as well as hardening structures with fire-resistant materials in these mapped and identified locations.	1	0	0	1	1	1	0	0	4	
Strategy Fire-13: Coordinate with CAL FIRE, California Department of Fish and Wildlife, University of California Cooperative Extension, and other agencies and organizations to establish post-fire ecological recovery programs to support ecological restoration efforts. Such ecological restoration endeavors could include the reintroduction and establishment of native species, and ecologically-beneficial vegetation management techniques (e.g., prescribed burns, invasive species removal) that would reduce the potential for high-intensity wildfires and improve the resilience of the City's wildlands.	1	0	0	1	1	0	1	0	4	
Strategy Fire-14: Retrofit and/or relocate infrastructure and critical facilities exposed to wildfire hazards to make them more resilient to wildfire, based on GIS-based spatial analyses.	1	0	0	0	1	1	0	0	3	
Strategy Fire-15: Increase the City's water storage capacity specifically for firefighting purposes, ensuring that fire hydrants are well-distributed in vulnerable and wildfire-prone areas.	1	0	0	1	1	0	0	1	4	
Strategy Fire-16: Similar to Strategy Flood-5, invest in fire detection and early warning systems such as remote sensors and surveillance technologies to detect wildfires early and notify residents and responders quickly.	1	0	0	1	1	1	0	0	4	
Strategy Fire-17: Adhere to Chapter 7.1 of the Fire Code pursuant to adopted High Severity Zone Maps.	1	1	1	1	1	0	0	0	5	
Strategy Fire-18: Collaborate with the CAL FIRE and the Riverside County Fire Department to support public wildfire education and prevention programs.	1	1	1	1	1	0	0	1	6	

Strategy AII-1: Implement and monitor the effectiveness of existing policies, actions, and measures identified in the City and regional entities' existing plans, including, but not limited to the hazard mitigation plan(s), general plan safety element and Western Riverside Adaptation and Resiliency Strategy.	City Manager's Office / Administrative Services	Community Development, Economic Development, Engineering, Public Works, Recreation, Fire, Emergency Services	Western Riverside Council of Governments (WRCOG); California Governor's Office of Emergency Services (Cal OES); Riverside County	FEMA Building Resilient Infrastructure and Communities (BRIC); Adaptation Planning Grant Program (APGP); General Fund; Local Budget	Ensure inclusive participation and representation in CAAP processes; provide multilingual access and prioritize underrepresented groups.	Percentage of adaptation and hazard mitigation policies, actions and measures from existing City and regional plans that are implemented on schedule, with monitoring results used to refine future actions	Tracking and reporting on a regular basis
Strategy AII-2: Enhance the climate resilience of existing and new residential and commercial developments by encouraging and incentivizing the use of pervious paving and climate-smart landscaped surfaces to prepare for more frequent extreme heat, drought and flooding events.	Community Development	Public Works, Engineering	WRCOG; Cal OES; Riverside County	General Fund; Local Budget	Prioritize disadvantaged communities that are also hazard-prone.	Adoption of updated development standards and measurable increase in the percentage of existing and new development projects incorporating pervious paving and climate-smart landscaping	Tracking and reporting on a regular basis
Strategy AII-3: Increase the climate resilience of existing and new residential and commercial development through structural strengthening and hardening to adapt to multiple climate change hazards, via updating the City's local building code or adopting targeted amendments to address key climate vulnerabilities.	Community Development	Public Works, Engineering, Fire	WRCOG; Riverside County	General Fund; Local Budget	N/A	Adoption of local building code and/or targeted amendments to address climate vulnerabilities, with increasing percentages of new and retrofitted buildings and developments meeting resilience standards	Tracking and reporting on a regular basis
Strategy AII-4: Avoid the future construction of critical facilities and infrastructure in or near climate change hazard-prone areas.	Community Development	Public Works, Engineering, Fire	WRCOG; Riverside County	N/A	N/A	No future construction of such facilities and infrastructure in or near climate change hazard-prone areas.	Tracking and reporting on a regular basis
Strategy AII-5: Collaborate with nearby jurisdictions and Riverside County to protect existing critical facilities and infrastructure from climate change hazards via regular maintenance and retrofitting.	Public Works	Community Development, Engineering, Fire	WRCOG; Cal OES; Riverside County	FEMA BRIC; General Fund; Local Budget	Prioritize those facilities located in disadvantaged areas that are also hazard-prone	Establishment of collaboration with nearby jurisdictions and Riverside County; Measurable increases in the percentage of critical facilities retrofitted or maintained to withstand climate hazards	Tracking and reporting on a regular basis
Strategy AII-6: Invest in sustainable backup power sources to provide redundancy and continued services for critical facilities in the event of an outage.	Public Works	Community Development, Engineering, Emergency Services	WRCOG; Cal OES; Riverside County	FEMA BRIC; General Fund; Local Budget	Prioritize those facilities located in disadvantaged areas that are also hazard-prone	Percentage of critical facilities equipped with sustainable backup power sources	Tracking and reporting on a regular basis
Strategy AII-7: Utilize the best available data and research to understand how climate change hazards may affect the city's transportation system and infrastructure. Collaborate with the California Department of Transportation (Caltrans) to improve the climate resilience of the city's transportation system and infrastructure.	Engineering, Public Works	Community Development	Caltrans; WRCOG; Cal OES; Riverside County	FEMA BRIC; APGP; General Fund; Local Budget	Prioritize such transportation infrastructure located in disadvantaged areas that are also hazard-prone	Integration of climate hazard data into city transportation planning; Measurable increase in resilience features across new and retrofitted transportation projects	Tracking and reporting
Strategy AII-8: Incorporate considerations of climate change and health equity into all governmental initiatives and fundamental operations. Ensure that public health initiatives serving vulnerable communities address the disproportionate impacts of climate change hazards on these communities.	City Manager's Office / Administrative Services	Recreation, Community Operations	WRCOG; Riverside County	General Fund; Local Budget	N/A (Already captured by the strategy itself)	Measurable increases in public health resources and services directed toward vulnerable communities disproportionately affected by climate hazards	Tracking and reporting on a regular basis
Strategy AII-9: Integrate climate change considerations into all stages of the City's emergency management planning, encompassing mitigation, preparedness, response, and recovery endeavors.	Emergency Services	Community Development, Engineering, Fire Public Works	WRCOG; Cal OES; Riverside County	General Fund; Local Budget	N/A	Climate change considerations are integrated into the City's emergency management planning	Tracking and reporting on a regular basis
Strategy AII-10: Consider the impacts of climate change hazards when carrying out the City's evacuation planning. Ensure the planning efforts are consistent with the City's emergency operations plan and general plan safety element.	Emergency Services	Community Development, Engineering, Fire, Public Works	WRCOG; Cal OES; Riverside County	General Fund; Local Budget	N/A	Climate change considerations are integrated into the City's evacuation planning	Tracking and reporting on a regular basis
Strategy AII-11: Enhance the resilience of energy infrastructure systems against climate change hazards by collaborating with Southern California Edison (SCE) to bolster redundancy in the energy network. Ensure the regular maintenance and retrofitting of energy infrastructure to prepare it for climate change hazards.	Engineering/Public Works	City Manager's Office, Economic Development, Community Operations, Community Development	WRCOG; SCE; Riverside County	FEMA BRIC; General Fund; Local Budget	Prioritize such transportation infrastructure located in disadvantaged areas that are also hazard-prone	Establishment of a collaboration framework with SCE; Measurable increases in energy system redundancy and resilience upgrade	Tracking and reporting on a regular basis
Strategy AII-12: Maintain and update the City's website with information about current climate change hazards. Enhance the monitoring of these hazards to ensure rapid response and recovery. Coordinate with SCE on the notifications of power outages due to climate change hazards	Emergency Services	City Manager's Office / Administrative Services, Community Operations, Recreation	WRCOG; SCE; Riverside County	General Fund; Local Budget	Provide multilingual access and prioritize underrepresented groups.	City maintains a climate hazard information webpage and coordinated SCE outage notifications, with timely public updates and increased outreach effectiveness	Tracking and reporting on a regular basis
Strategy AII-13: Increase public awareness of climate change hazards and how to prepare for such hazards via the regular community outreach events hosted in the city. Improve collaboration and information sharing among the City, other public agencies, community-based organizations, and vulnerable communities.	Emergency Services	City Manager's Office, Economic Development, Community Operations, Recreation	WRCOG; Riverside County; CBOs	General Fund; Local Budget	Provide multilingual access and prioritize underrepresented groups.	Increased number of outreach events; Strengthened partnerships with local organizations; Measurable improvements in participation and preparedness among vulnerable communities	Tracking and reporting on a regular basis
Strategy AII-14: Identify potential locations throughout the city as new community resilience centers or "resilience hubs", either through new construction or repurposing of existing facilities. Resilience hubs provide places of refuge for vulnerable community members during power outages, extreme weather events, wildfires, or other climate change hazards.	Recreation	Public Works, Emergency Services, Fire, Community Operations	WRCOG; Cal OES; Riverside County	FEMA BRIC; General Fund; Local Budget	Prioritize disadvantaged communities that are also hazard-prone.	Completion of a citywide resilience hub siting study; Establishment of new or repurposed resilience hubs	Tracking and reporting on a regular basis
Strategy AII-15: Establish backup power and water resources at emergency shelters and cooling centers in case of power outages due to climate change hazards.	Emergency Services	Public Works, Fire, Community Operations	WRCOG; Cal OES; Riverside County	FEMA BRIC; General Fund; Local Budget	Prioritize those facilities located in disadvantaged areas that are also hazard-prone	Designated emergency shelters and cooling centers have backup power and adequate emergency water supplies	Tracking and reporting on a regular basis
Strategy AII-16: Coordinate with the County of Riverside Continuum of Care and other existing programs to ensure that emergency shelters are available during climate change hazards. Ensure that vulnerable communities are made aware of these resources.	Emergency Services	Recreation, Community Operations	Riverside County	General Fund; Local Budget	Provide multilingual access and prioritize underrepresented groups.	Regular coordination with the County of Riverside Continuum of Care and other existing programs to ensure shelter availability and accessibility, with measurable increases in outreach effectiveness	Tracking and reporting on a regular basis
Strategy AII-17: Enhance the climate resilience of existing and new residential and commercial development by promoting structural hardening, pervious surfaces, and climate-smart landscaping to address multiple hazards such as extreme heat, flooding, and wildfire. This may include updates to the City's building code, targeted retrofits, and incentives or support for resilience upgrades, particularly in disadvantaged communities, mobile home parks, and other vulnerable areas.	Community Development	Engineering, Public Works, Fire, City Manager's Office, Economic Development, Community Operations	WRCOG; Cal OES; Riverside County	FEMA BRIC; APGP; General Fund; Local Budget	Prioritize those developments located in disadvantaged areas that are also hazard-prone	Updated codes and incentives result in measurable increases in resilience upgrades and retrofits, with targeted benefits for disadvantaged neighborhoods and other vulnerable areas.	Tracking and reporting on a regular basis
Strategy Drought-1: Partner with Elsinore Valley Municipal Water District (EVMWD) to evaluate the vulnerability of the local water supply systems and networks to climate impacts and develop strategies to enhance the resilience of these systems.	Engineering	Community Development, Fire, Public works	EVMWD; CA DWR; State Water Board	CA DWR funds; State Water Board funds; FEMA BRIC; APGP	N/A	Joint vulnerability assessment with EVMWD completed on local water supply systems; Strategies developed for system enhancement	Tracking and reporting on a regular basis
Strategy Drought-2: Collaborate with EVMWD and expand upon existing water conservation-related education and outreach programs for the City's residents and businesses.	Lake & Community Operations	Public Works, Engineering, Economic Development	EVMWD	General Fund; Local Budget	Provide multilingual access and prioritize underrepresented groups.	Joint water conservation education campaigns with EVMWD, which result in measurable reductions in per capita water use; Increased participation in water conservation incentive programs	Tracking and reporting on a regular basis
Strategy Drought-3: Collaborate with federal, State, and local agencies and organizations to identify future water supplies and explore alternative supply sources.	Engineering	Community Development	EVMWD; CA DWR; State Water Board	CA DWR funds; State Water Board funds; FEMA BRIC; APGP	N/A	Completion of feasibility studies and agreements that diversify the city's water supply portfolio, with measurable improvements in drought resilience	Tracking and reporting on a regular basis
Strategy Drought-4: Implement systems to capture and store stormwater for reuse in irrigation, landscape maintenance, or non-potable uses. Encourage the installation of greywater and water recycling systems to reuse water for irrigation purposes.	Engineering	Community Development, Public Works	EVMWD	General Fund; Local Budget	Provide multilingual access and prioritize underrepresented groups.	Increased stormwater capture and reuse, measured by acre-feet of water reused; Percentage of developments incorporating greywater and/or water recycling systems	Tracking and reporting on a regular basis
Strategy Drought-5: Collaborate with regional water agencies to stabilize water levels in Lake Elsinore using supplemental water sources if necessary to maintain the Lake's ecological health and recreational value. Restore the Lake's surrounding wetlands and riparian zones to enhance water retention, improve water quality, and support biodiversity.	Lake & Community Operations	Recreation, Public Works	EVMWD; Department of Water Resources (CA DWR)	General Fund; Local Budget; CA DWR funds	N/A	Water quality improvement in Lake Elsinore; Acreage of wetlands and/or riparian zones restored, as well as other measurable improvements in water quality and biodiversity	Tracking and reporting on a regular basis
Strategy Drought-6: Consider amending the City's Uniform Building Code to require development projects to reduce indoor water consumption by 30% (consistent with 2025 CALGreen Tier 1, Section AS 303.2.3.1), and implement through conditions of approval.	Community Development	City Manager's Office / Administrative Services, Fire	N/A	N/A	N/A	Whether such an amendment is approved; Measurable reductions in water demand	Tracking and reporting
Strategy Drought-7: For outdoor irrigation, recommend using automatic timers and adjusting watering schedules to the cooler hours between 6 p.m. and 6 a.m., which are more restrictive than the current municipal code hours of 5 p.m. to 9 a.m.	Community Development	Public works, Code Enforcement	EVMWD	N/A	Provide multilingual access and prioritize underrepresented groups.	Whether such proposed watering schedules are adopted and enforced	Tracking and reporting

Strategy Drought-8: Encourage the adoption of advanced irrigation techniques such as drip irrigation, moisture sensors, and weather-responsive controllers to enhance water efficiency and promote sustainable landscaping practices. Incentivize planting native and drought-tolerant plants that require less watering instead of traditional lawns.	Community Development	Public Works, Engineering, Economic Development	EVMWD	General Fund; Local Budget; CA DWR funds	Ensure equitable access to water conservation programs; provide bill assistance and rebates for low-income households	Expansion of advanced irrigation and sustainable landscaping practices; Measurable reductions in outdoor water use; Increased participation in other water conservation incentives	Tracking and reporting on a regular basis
Strategy Drought-9: Restrict water use during construction activities to only those purposes required by regulatory agencies when using water from a construction meter, hydrant meter, or water truck.	Public Works	Community Development, Engineering	N/A	N/A	N/A	Construction water use restricted to regulatory-required purposes only; Measurable reductions in construction water use	Tracking and reporting on a regular basis
Strategy Drought-10: Encourage the installation of water-saving devices for indoor and outdoor uses, including but not limited to open hoses equipped with automatic and positive shutoff nozzles, low-flow showerheads and faucet aerators for residential and commercial buildings, and recirculating pumps for swimming pools, fountains, and other water features.	Community Development	Public Works, Engineering	EVMWD	General Fund; Local Budget; CA DWR funds	Ensure equitable access to water conservation programs; provide bill assistance and rebates for low-income households	Adoption of water-saving device standards and increased installations across new and existing developments; Measurable reductions in per capita water use	Tracking and reporting on a regular basis
Strategy Drought-11: Collaborate with EVMWD to offer residential and commercial customers water efficient rebate to upgrade their properties and fixtures.	Community Development	Engineering, Public Works, Economic Development	EVMWD	General Fund; Local Budget; CA DWR funds	Ensure equitable access to water conservation programs; provide bill assistance and rebates for low-income households	City & EVMWD rebate program launched and widely utilized, yielding measurable water savings	Tracking and reporting on a regular basis
Strategy Drought-12: Encourage and expand the implementation of drought-resistant green infrastructure such as street trees and landscaped areas to enhance cooling in both public and private spaces.	Public Works	Community Development, Engineering	N/A	General Fund; Local Budget	Prioritize disadvantaged communities that are also hazard-prone.	Increased # of trees planted, and acreage of areas with improved landscape	Tracking and reporting on a regular basis
Strategy Temp-1: Enhance the City's emergency preparedness and response efforts regarding extreme heat events by developing or enhancing heatwave early warning systems. Consider collaborating with Riverside County or creating the City's own heat action plan.	Emergency Services	Community Operations, Recreation	Riverside County	FEMA BRIC; General Fund; Local Budget; APGP	Prioritize disadvantaged communities that are also hazard-prone.	Establishment of a City heat action plan and early warning system	Tracking and reporting
Strategy Temp-2: Use reflective or permeable pavement materials that reduce heat absorption and mitigate the heat island effect, particularly in parking lots, sidewalks, and streets.	Engineering	Public Works, Community Development	N/A	General Fund; Local Budget	Prioritize disadvantaged communities that are also hazard-prone.	Increased acreage of areas using reflective or permeable pavement materials	Tracking and reporting on a regular basis
Strategy Temp-3: Collaborate with SCE to prepare the City's electric substations as well as transmission and distribution lines for more frequent extreme heat events by upgrading conductors, transformers, and other critical components with materials that are better suited to withstand higher temperatures, as well as improving the insulation on transmission and distribution lines to prevent overheating.	Public Works	Emergency Services, Engineering	SCE, Riverside County	FEMA BRIC; General Fund; Local Budget	Prioritize those located in disadvantaged communities that are also hazard-prone	Increased substations and/or utility lines upgraded	Tracking and reporting on a regular basis
Strategy Temp-4: Partner with SCE to implement load management strategies and demand response programs to reduce strain on electric substations and transmission lines during extreme heat events.	Public Works	Emergency Services, Engineering	SCE, Riverside County	General Fund; Local Budget; APGP	N/A	Increased participation in SCE demand response and load management programs, resulting in measurable reductions in peak demand and improved grid reliability	Tracking and reporting on a regular basis
Strategy Temp-5: Revise the City's municipal code to require new development to plant at minimum two 15-gallon non-deciduous, umbrella-form trees per 30 linear feet of boundary length near buildings through the development review process. Trees shall be planted in strategic locations around buildings or to shade pavement in parking lots and streets.	Community Development	Engineering, Public Works	N/A	General Fund; Local Budget	N/A	Adoption and enforcement of new code requirements; Increased # of trees planted, and acreage of areas with improved landscape	Tracking and reporting
Strategy Temp-6: Consider amending the City's municipal code to require new non-residential development to use roofing materials having solar reflectance, thermal emittance or solar reflectance index consistent with 2025 CALGreen Tier 1 values (Table A5.106.11.2.1) and implement through conditions of approval.	Community Development	City Manager's Office / Administrative Services, Engineering	N/A	N/A	N/A	Adoption and enforcement of new code requirements	Tracking and reporting
Strategy Temp-7: Employ passive solar heating techniques whenever possible with new development projects. Such techniques involve, but are not limited to, orienting buildings properly, planting trees to take advantage of the sun, as well as ensuring adequate roof overhangs and proper wall insulation.	Community Development	Public Works, Engineering	N/A	General Fund; Local Budget;	Prioritize those located in disadvantaged communities that are also hazard-prone	Increased incorporation of passive solar design features in new developments	Tracking and reporting on a regular basis
Strategy Temp-8: Work with the California Division of Occupational Safety and Health and employers to provide outdoor workers with sufficient training regarding protection from extreme heat conditions, ensuring the maintenance of healthy and safe working environments.	Administrative Services	Public Safety, Economic Development, City Manager's Office / Administrative Services	California Division of Occupational Safety and Health	General Fund; Local Budget	N/A	Increased training coverage and improved heat safety compliance among outdoor workers; Fewer heat-related workplace incidents	Tracking and reporting on a regular basis
Strategy Temp-9: Coordinate with Riverside Transit Agency to increase shading and heatmitigating materials on pedestrian walkways and transit stops.	Engineering	Community Development, Public Works	Riverside Transit Agency, Caltrans	General Fund; Local Budget; ; Caltrans grants	Prioritize those located in disadvantaged communities that are also hazard-prone	Increased number of shaded and cooled transit stops and walkways	Tracking and reporting on a regular basis
Strategy Temp-10: Restore and enhance plant habitats for natural shading and cooling.	Public Works	Community Development, Engineering, Lake & Community Operations	Riverside County, CDFW	General Fund; Local Budget; CDFW funding	Prioritize potential areas located in disadvantaged communities that are also hazard-prone	Expanded plant habitats that increase canopy cover and reduce heat exposure	Tracking and reporting on a regular basis
Strategy Temp-11: Reduce public exposure to extreme heat by expanding access to drinking water and shaded spaces in parks, schoolyards, and recreational facilities with a focus on equity and prioritization of underserved communities and high-heat zones.	Recreation	Community Development, Public Works	Riverside County, CBOs, Schools	General Fund; Local Budget;	N/A (Already captured by the strategy itself)	Expanded shaded areas and drinking water access in priority neighborhoods, resulting in reduced public heat exposure and increased equitable access to safer outdoor spaces	Tracking and reporting on a regular basis
Strategy Flood-1: Implement the Master Drainage Plan adopted by the City in April 2023. Continue to update studies that outline flood hazard areas outside of the Master Drainage Plan.	Engineering	Community Development, Public Works	Riverside County, CA DWR, Riverside County Flood Control and Water Quality Management District	General Fund; Local Budget	N/A	Implementation of the April 2023 Master Drainage Plan and regular updates of flood hazard studies	Tracking and reporting on a regular basis
Strategy Flood-2: Ensure that new construction activities in floodways and floodplains conform to all applicable provisions of the National Flood Insurance Program (NFIP) to protect from flooding.	Engineering	Community Development, Public Works, Fire	Riverside County, CA DWR, FEMA, Riverside County Flood Control and Water Quality Management District	FEMA Flood Mitigation Assistance Program (FMA); General Fund; Local Budget	N/A	Records proving that new construction activities in floodways and floodplains conform to such provisions	Tracking and reporting on a regular basis
Strategy Flood-3: Utilize the City's Capital Improvement Program (CIP) for storm drainage projects and maintenance and improvement of local storm drain systems including but not limited to channels, pipes, and inlets to ensure capacity for maximum runoff flows.	Engineering	Public Works, City Manager's Office / Administrative Services, Community Development	Riverside County, CA DWR, U.S. Army Corps of Engineers (USACE)	General Fund; Local Budget; CA DWR funds; FEMA BRIC	Prioritize those located in disadvantaged communities that are also hazard-prone	Implementation of storm drainage projects through the CIP increases storm drain system capacity and reduces localized flooding	Tracking and reporting on a regular basis
Strategy Flood-4: Identify and address areas with poor drainage to lower disease risks associated with stagnant water. Enhance education and outreach initiatives to inform communities about potential increases in vector-borne diseases due to stagnant water.	Public Works	Lake & Community Operations, Engineering	Riverside County, CA DWR, CBOs	General Fund; Local Budget	Provide multilingual access and prioritize underrepresented groups; Prioritize those located in disadvantaged communities that are also hazard-prone.	Such areas have improved drainage; Increased public participation in related outreach initiatives	Tracking and reporting on a regular basis
Strategy Flood-5: Encourage retrofits of hardscaped areas to use permeable paving. Permeable paving can also mitigate the heat island effect, as specified in Strategy Temp-2.	Public Works	Engineering, Community Development	Riverside County	General Fund; Local Budget	Prioritize those located in disadvantaged communities that are also hazard-prone	Expansion of permeable paving retrofits, reducing surface heat	Tracking and reporting on a regular basis
Strategy Flood-6: Restore riparian corridors, soft-bottomed streambeds, and seasonal flood basins to help mitigate flood hazards.	Public Works	Community Development, Engineering	Riverside County, CA DWR, USACE; Riverside County Flood Control and Water Quality Management District	General Fund; Local Budget; FEMA BRIC; CA DWR funds	Prioritize those located in disadvantaged communities	Completion of riparian, streambed, and flood basin restoration projects that reduce flood hazards	Tracking and reporting on a regular basis
Strategy Flood-7: Encourage the creation of floodway setbacks for greenways, trails, and recreation areas while discouraging development within floodways.	Community Development	Engineering, Public Works	Riverside County, CA DWR, USACE, Riverside County Flood Control and Water Quality Management District	General Fund; Local Budget; FEMA BRIC; CA DWR funds	Prioritize those located in disadvantaged communities	Adoption of floodway setback policies resulting in new greenways, trails, and recreation areas; Reduced development pressures in flood-prone zones	Tracking and reporting on a regular basis
Strategy Flood-8: Mandate the construction of channel improvements designed to accommodate 100-year flood flows where applicable. Promote drainage improvements that maintain a natural or semi-natural floodplain.	Engineering	Community Development, Fire, Public Works	Riverside County, CA DWR, USACE, FEMA, Riverside County Flood Control and Water Quality Management District	General Fund; Local Budget; FEMA BRIC; CA DWR funds	Prioritize those located in disadvantaged communities	Channel improvements designed to 100-year flood capacity are completed where applicable, reducing flood risks while maintaining semi-natural floodplains	Tracking and reporting on a regular basis
Strategy Flood-9: Promote low-impact development practices in new construction projects. Low-impact development is a land use and engineering design approach that aims to manage stormwater runoff and protect water quality.	Community Development	Public Works, Engineering	Riverside County	General Fund; Local Budget	Prioritize those new construction located in disadvantaged communities	Expanded use of low-impact development practices in new development projects, resulting in reduced runoff and improved water quality	Tracking and reporting on a regular basis

Strategy Flood-10: Assess new development applications for potential flood hazards through project review and California Environmental Quality Act (CEQA) processes using Federal Emergency Management Agency (FEMA) regulations and mapping data. Require compliance with FEMA Special Flood Hazard Area (SFHA) requirements for projects located within or adjacent to designated flood hazard areas, or when site-specific conditions indicate a flood risk.	Community Development	Engineering, Fire	Riverside County, FEMA, Riverside County Flood Control and Water Quality Management District	General Fund; Local Budget	N/A	All new development applications reviewed for flood hazards through CEQA and FEMA mapping, with compliance in FEMA SFHAs	Tracking and reporting on a regular basis
Strategy Flood-11: Coordinate with EVMWD and other sanitation districts and waste management agencies to improve sewage and solid waste management infrastructure to lessen the occurrences of floodwater contamination, thereby reducing the spread of pollution and degraded water quality.	Public Works	Community Development, Engineering	Riverside County, EVMWD	General Fund; Local Budget; FEMA BRIC	Prioritize such infrastructure located in disadvantaged communities that are also hazard-prone	Coordinated improvements to sewage and waste management infrastructure, reducing flood-related contamination and improving water quality	Tracking and reporting
Strategy Flood-12: Coordinate with Riverside County Flood Control and Water Quality Management District to identify new locations suitable for multi-benefit flood control that encourage groundwater recharge and habitat restoration.	Engineering	Public Works, Community Development	Riverside County Flood Control and Water Quality Management District	General Fund; Local Budget; FEMA BRIC; APGP; FEMA FMA	N/A	Multi-benefit flood control projects implemented that enhance groundwater recharge and habitat restoration while reducing flood risks	Tracking and reporting on a regular basis
Strategy Flood-13: Retrofit and/or relocate infrastructure and critical facilities exposed to flooding and landslide hazards to make them more resilient to such hazards, based on GIS-based spatial analyses	Public Works	Community Development, Engineering	Riverside County Flood Control and Water Quality Management District	General Fund; Local Budget; FEMA BRIC; CA DWR funds	Prioritize those located in disadvantaged communities that are also hazard-prone	GIS-based assessments guide the retrofit or relocation of at-risk facilities, reducing exposure to flooding and landslide hazards	Tracking and reporting on a regular basis
Strategy Flood-14: Ensure the regular maintenance of water and wastewater infrastructure and facilities to prepare them for extreme precipitation events.	Public Works	Engineering, Emergency Service, Fire	Riverside County Flood Control and Water Quality Management District	General Fund; Local Budget; FEMA BRIC; CA DWR funds	Prioritize those located in disadvantaged communities that are also hazard-prone	Preventive maintenance and wet-weather readiness protocols to reduce and/or avoid service disruptions during extreme precipitation events	Tracking and reporting on a regular basis
Strategy Flood-15: Assess and map areas with bare soil or significant disturbance due to natural hazards such as wildfire events and/or anthropogenic changes to prioritize restoration efforts. Implement targeted restoration activities where feasible by selecting appropriate vegetation, applying erosion control measures, and following best management practices.	Public Works	Engineering, Fire, Community Development	Riverside County; CDFW	General Fund; Local Budget; FEMA BRIC; CDFW grants	N/A	Completion of GIS-based mapping and targeted restoration activities, which reduce erosion and restore ecological functions	Tracking and reporting
Strategy Flood-16: Partner with Riverside County Flood Control and Water Quality Management District, Riverside County, and National Weather Service to deliver robust multilingual education and outreach materials accessible across multiple media forms (e.g. radio, text messaging) to publicize information regarding potential day-to-day flood risk, key terminology, emergency supplies, pet protection, electrical safety, and evacuation routes in the case of flooding.	City Manager's Office/Media Team, Emergency Services	City Manager's Office / Administrative Services, Community Services	Riverside County Flood Control and Water Quality Management District, Riverside County, National Weather Service	General Fund; Local Budget	Provide multilingual access and prioritize underrepresented groups	Regular multilingual, multi-platform outreach campaigns, which improve public awareness of flood risks and preparedness actions	Tracking and reporting on a regular basis
Strategy Fire-1: Promote programs aimed at raising public awareness of regional air quality issues and highlighting actionable solutions and improvement opportunities.	Community Operations	Public Works, Community Development, Fire	Valley Air District, Riverside County Fire Department, CAL FIRE	General Fund; Local Budget	Provide multilingual access and prioritize underrepresented groups	Increased community awareness and participation in air quality improvement programs	Tracking and reporting on a regular basis
Strategy Fire-2: Implement ongoing brush clearance requirements and establish low-fuel landscaping policies to minimize combustible vegetation near the urban-wildland interface.	Fire	Community Development, Public Works, Engineering	Riverside County Fire Department, CAL FIRE	General Fund; Local Budget; CAL FIRE grants	Prioritize those located in disadvantaged communities that are also hazard-prone	Expanded brush clearance enforcement and low-fuel landscaping policies, reducing combustible vegetation near the urban-wildland interface	Tracking and reporting on a regular basis
Strategy Fire-3: Strengthen defensible space inspections in wildfire-prone areas. Create fuel modification zones around developments within high wildfire hazard areas by clearing combustible vegetation within 100 feet of such developments. The fuel modification zone size may be altered with the addition of fire-resistant building techniques.	Fire	Community Development, Public Works, Engineering	Riverside County Fire Department, CAL FIRE	General Fund; Local Budget; CAL FIRE grants	Prioritize those located in disadvantaged communities that are also hazard-prone	Strengthened defensible space inspections and fuel modification zones, reducing wildfire risk near developments	Tracking and reporting on a regular basis
Strategy Fire-4: Perform fuel reduction projects throughout the city to reduce fire potential. Develop a wildfire risk reduction assessment that the City can use for new development in wildfire-prone areas.	Fire	Community Development, Public Works	Riverside County Fire Department, CAL FIRE	General Fund; Local Budget; CAL FIRE grants; APGP	Prioritize projects that target disadvantaged communities that are also hazard-prone; assessment should focus on such areas as well	Implementation of fuel reduction projects; Adoption of wildfire risk reduction assessment standards, reducing fire potential	Tracking and reporting on a regular basis
Strategy Fire-5: Develop and enforce construction and design standards that ensure the development project incorporates fire prevention features. Encourage the use of fire-resistant building techniques for new developments such as non-combustible wall surfacing materials, enclosed materials and features, and automatic fire sprinklers.	Community Development	Fire	Riverside County Fire Department, CAL FIRE	General Fund; Local Budget; CAL FIRE grants	Prioritize those located in disadvantaged communities that are also hazard-prone	Adoption and enforcement of construction and design standards requiring fire prevention features, reducing wildfire risk for new developments	Tracking and reporting on a regular basis
Strategy Fire-6: Promote programs that educate city residents about the threat of human wildfire origination from residential practices such as outdoor barbecues and from highway use, such as cigarette littering.	Fire	Recreation, Police	Riverside County Fire Department, CAL FIRE	General Fund; Local Budget; CAL FIRE grants	Provide multilingual access and prioritize underrepresented groups	Implementation of wildfire prevention education programs, reducing human-caused ignitions	Tracking and reporting on a regular basis
Strategy Fire-7: Continue to follow Riverside County Fire Department's most current guidelines to achieve standard response times and staffing levels to prepare for wildfire events.	Fire	Police,	Riverside County Fire Department, CAL FIRE	General Fund; Local Budget	N/A	Compliance with Riverside County Fire Department wildfire response guidelines	Tracking and reporting
Strategy Fire-8: Establish neighborhood and building design standards that minimize wildfire hazards in very high and high fire hazard severity zones. Create wildfire protection zones that reduce the risks to citizens and firefighters from fire dangers.	Community Development	Fire	Riverside County Fire Department, CAL FIRE	General Fund; Local Budget; CAL FIRE grants	Prioritize disadvantaged communities that are also hazard-prone	Adoption and enforcement of neighborhood design standards; Creation of wildfire protection zones that reduce wildfire risks	Tracking and reporting on a regular basis
Strategy Fire-9: Initiate wildfire fuel management practices in parks and open spaces.	Recreation	Fire, Public Works	Riverside County Fire Department, CAL FIRE	General Fund; Local Budget; CAL FIRE grants	Prioritize those located in disadvantaged communities that are also hazard-prone	Wildfire fuel management projects initiated in parks and open spaces, reducing fire risk	Tracking and reporting on a regular basis
Strategy Fire-10: Collaborate with Riverside County and regularly maintain existing fire roads throughout the city to provide fire department access.	Fire	Public Works	Riverside County Fire Department, CAL FIRE, Caltrans	General Fund; Local Budget; CAL FIRE grants; Caltrans grants	Prioritize those fire roads located in disadvantaged communities that are also hazard-prone	Regular maintenance of fire roads, ensuring reliable emergency access for fire department access	Tracking and reporting on a regular basis
Strategy Fire-11: Implement long range fire safe planning through code adoption/policies consistent with the City's General Plan Public Safety, Noise, and Air Quality Element.	Community Development	City Manager's Office / Administrative Services, Fire, Public Works	Riverside County Fire Department, CAL FIRE, Caltrans	General Fund; Local Budget	N/A	Adoption and enforcement of fire-safe codes and policies aligned with the City's General Plan, reducing long-term wildfire risk	Tracking and reporting on a regular basis
Strategy Fire-12: Work with the California Department of Forestry and Fire Protection (CAL FIRE) and the Riverside County Fire Department to map and identify locations that are newly at risk, or at risk for fire hazards because of climate change, implement wildfire mitigation best practices such as maintaining defensible spaces and fire breaks, as well as hardening structures with fire-resistant materials in these mapped and identified locations.	Community Development	Fire, Public Safety	Riverside County Fire Department, CAL FIRE	General Fund; Local Budget; CAL FIRE grants	Prioritize those located in disadvantaged communities that are also hazard-prone	Updated hazard mapping identifying climate-driven wildfire risk areas; Implementation of defensible space, fire breaks, hardening measures, and other wildfire mitigation best practices	Tracking and reporting on a regular basis
Strategy Fire-13: Coordinate with CAL FIRE, California Department of Fish and Wildlife (CDFW), University of California Cooperative Extension, and other agencies and organizations to establish post-fire ecological recovery programs to support ecological restoration efforts. Such ecological restoration endeavors could include the reintroduction and establishment of native species, and ecologically-beneficial vegetation management techniques (e.g., prescribed burns, invasive species removal) that would reduce the potential for high-intensity wildfires and improve the resilience of the City's wildlands.	Fire	Community Development, Public Works, Engineering	CAL FIRE, CDFW, University of California Cooperative Extension	General Fund; Local Budget; CAL FIRE grants; CDFW grants	Prioritize such endeavors that would benefit disadvantaged communities	Establishment of post-fire ecological recovery programs that restore native habitats, reduce high intensity wildfire potential, and improve resilience of wildlands	Tracking and reporting on a regular basis
Strategy Fire-14: Retrofit and/or relocate infrastructure and critical facilities exposed to wildfire hazards to make them more resilient to wildfire, based on GIS-based spatial analyses.	Public Works	Engineering, Community Development, Fire	Riverside County Fire Department, CAL FIRE	General Fund; Local Budget; CAL FIRE grants; FEMA BRIC	Prioritize those located in disadvantaged communities that are also hazard-prone	GIS-based risk analysis that guides retrofits or relocation of at-risk infrastructure and facilities	Tracking and reporting on a regular basis
Strategy Fire-15: Increase the City's water storage capacity specifically for firefighting purposes, ensuring that fire hydrants are well-distributed in vulnerable and wildfire-prone areas	Public Works	Fire, Engineering	Riverside County Fire Department, CAL FIRE	General Fund; Local Budget; CAL FIRE grants	Prioritize such capacity building in disadvantaged communities that are also hazard-prone	Increased water storage capacity and improved hydrant distribution, enhancing firefighting readiness	Tracking and reporting
Strategy Fire-16: Similar to Strategy Flood-5, invest in fire detection and early warning systems such as remote sensors and surveillance technologies to detect wildfires early and notify residents and responders quickly.	Fire	Public works, Public Safety	Riverside County Fire Department, CAL FIRE	General Fund; Local Budget; CAL FIRE grants	Provide multilingual access and prioritize underrepresented groups	Deployment of wildfire detection sensors/cameras and integrated alerting, reducing detection-to-dispatch times and speeding public warnings	Tracking and reporting
Strategy Fire-17: Adhere to Chapter 7.1 of the Fire Code pursuant to adopted High Severity Zone Maps.	Fire	Community Development	Riverside County Fire Department, CAL FIRE	N/A	N/A	Enforcement of Fire Code Chapter 7.1 pursuant to adopted High Severity Zone Maps	Tracking and reporting
Strategy Fire-18: Collaborate with CAL FIRE and the Riverside County Fire Department to support public wildfire education and prevention programs.	Fire	City Manager's Office / Administrative Services	Riverside County Fire Department, CAL FIRE	General Fund; Local Budget	Provide multilingual access and prioritize underrepresented groups	Joint education and prevention campaigns, increasing resident wildfire preparedness and reducing human-caused ignitions	Tracking and reporting on a regular basis

Federal Emergency Management Agency (FEMA) Building Resilient Infrastructure and Communities (BRIC) Grant Program	The BRIC program supports hazard mitigation efforts to strengthen infrastructure and reduce risks from natural disasters. The program aims to support communities as they build capability and capacity.	Grants	FEMA
FEMA Flood Mitigation Assistance (FMA) Program	The FMA program provides funding to eligible entities for projects that reduce or eliminate the risk of repetitive flood damage to buildings insured by the National Flood Insurance Program (NFIP). FMA is competitive and prioritizes projects that reduce or eliminate NFIP claims.	Grants	FEMA
California Adaptation Planning Grant (APG)	The APG program funds local and tribal governments to prepare climate vulnerability assessments, adaptation plans, and resilience strategies, with emphasis on equity and the needs of vulnerable communities.	Grants	California Governor's Office of Land Use and Climate Innovation (LCI)
California Department of Water Resources (CA DWR) Funds	DWR offers competitive grant and loan programs that support climate-adaptation and water-resilience projects, such as integrated watershed management, groundwater recharge, water-energy efficiency, and flood control.	Grants/Loans	CA DWR
State Water Board Funds	The State Water Board administers grant and loan programs that support infrastructure improvements, water quality projects, and resilience to climate-driven risks like drought, flooding	Grants/Loans	State Water Board
California Department of Transportation (Caltrans) Grants	Caltrans offers planning grants (under its Sustainable Transportation Planning Grant Program) that include a specific Climate Adaptation Planning category. These funds support local and regional agencies in identifying transportation-infrastructure climate vulnerabilities and developing adaptation strategies.	Grants	Caltrans
California Department of Fish and Wildlife (CDFW) Grants	CDFW supports projects that restore ecosystems, improve habitat, and build resilience on natural and working lands. These grants intend to help communities and wildlife adapt to climate hazards and changing conditions.	Grants	CDFW