

Appendix C

Prioritization Matrix

MEASURE	ACTION	PRIORITIZATION SCORE	GHG Reduction Potential	Climate Resilience Benefit	Jurisdictional Control	Timeframe of Implementation	Feasibility	County Cost Effectiveness	Resident/Business Cost Effectiveness	COBENEFITS									
										Air Quality	Water Security	Forest Resilience	Cost Savings	Energy Reliability	Biodiversity Conservation	Economic Diversity	Social and Cultural Well-being	Carbon Sequestration	
HEALTH AND SAFETY																			
STRATEGY 1. ACTIVE TRANSPORTATION																			
Measure 1.1: Encourage residents and visitors to walk, bike, or use other modes of active transportation.	Action 1.1.1. Plan for a balanced multimodal transportation network that meets the needs of all users of roads, including bicyclists and pedestrians. Incorporate bicycle and pedestrian improvements (e.g., dedicated pedestrian and bicycle paths and lanes) when designing roadway improvements, where appropriate. In coordination with the California Department of Transportation, identify and pursue relevant funding resources and support State policy development aimed at increasing these funding resources.	12	2	1	2	2	2	0			1	0	0	1	0	0	0	1	0
	Action 1.1.2. Support Tuolumne County Transportation Council with implementation of the 2020 Tuolumne County Active Transportation Plan and Interregional Bicycle Tourism Plan.	13	2	1	1	3	2	1			1	0	0	1	0	0	0	1	0
	Action 1.1.3. Require, when appropriate and warranted, new development to contribute to or construct bicycle and pedestrian facilities and infrastructure.	11	1	1	2	2	2	0			1	0	0	1	0	0	0	1	0
	Action 1.1.4. Facilitate the development of neighborhood electric bicycle (e-bike) networks throughout the county to increase the viability and use of e-bikes. Partner with existing e-bike-sharing services, electric utilities, and business owners to install e-bike charging infrastructure at strategic locations throughout the county, including at County facilities, transit facilities and hubs, major employment centers, and educational institutions.	10	2	1	2	2	1	0			1	0	0	0	0	0	0	1	0
	Action 1.1.5. Use the "May is Bike Month Challenge" as an opportunity to promote biking to work, school, and errands.	12	1	1	1	3	2	1			1	0	0	1	0	0	0	1	0
Measure 1.2: Encourage students to walk and bike to school through a Safe Routes to School Program.	Action 1.2.1. Working with school districts, develop and adopt a countywide Safe Routes to School Program that encourages youth to walk or ride bicycles to schools where feasible.	11	1	1	2	2	2	0			1	0	0	1	0	0	0	1	0
	Action 1.2.2. Implement an education and engagement program to address concerns and highlight benefits of active transportation options to increase participation the Safe Routes to School Program.	11	1	1	2	2	2	0			1	0	0	1	0	0	0	1	0
	Action 1.2.3. At schools where students drive, reduce the number of student parking spaces to encourage walking, biking, and carpooling.	9	1	1	1	2	1	0			1	0	0	1	0	0	0	1	0
STRATEGY 2. IMPROVED AIR QUALITY																			
Measure 2.1: Reduce vehicle idling.	Action 2.1.1. Restrict idling for all vehicles, especially in sensitive areas such as near schools.	10	1	1	2	2	1	0			1	0	0	1	0	0	0	1	0
	Action 2.1.2. Require all nonresidential development with loading docks to supply sufficient electrical power for delivery trucks and associated equipment to reduce idling when making deliveries.	10	1	1	2	2	1	0			1	0	0	1	0	0	0	1	0
Measure 2.2: Reduce vehicle congestion.	Action 2.2.1. Implement vehicle congestion relief projects, including the North/South Connector Project.	12	1	2	2	2	2	0			1	0	0	1	0	0	0	1	0
	Action 2.2.2. Adopt and implement a State Route 49 Complete Streets and Congested Corridor Plan.	12	1	2	2	2	2	0			1	0	0	1	0	0	0	1	0
	Action 2.2.3. Require and enforce traffic calming measures (e.g., crosswalks, planters) on streets and at intersections within all new residential and nonresidential development projects.	12	1	2	2	2	2	0			1	0	0	1	0	0	0	1	0

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Measure 4.2: Increase the use of defensible space strategies to reduce wildfire property damage for properties located in high-wildfire risk zones in the county using guidance and requirements pursuant to Assembly Bill (AB) 3074 of 2020 (Fire Prevention).	Action 4.2.1. Continue to support the Tuolumne County Fire Department (TCFD) Fire Safety Inspection Program and the Highway 108 and Yosemite Fire Safe Councils' fuel break projects and education and outreach efforts regarding defensible space strategies.	15	1	3	1	3	2	1		1	0	1	0	0	1	0	0	1	
	Action 4.2.2. Formalize a partnership between TCFD, Fire Safe Councils, the Tuolumne County Community Development Department, and appropriate stakeholders to develop a WUI Risk Reduction Program, including funding and financing options for existing development to improve defensible space and increase home and structural hardening.	14	1	3	2	2	2	2	1		1	0	1	1	0	0	0	0	0
	Action 4.2.3. The WUI Risk Reduction Program should include a website to connect homeowners with contractors who can provide defensible space services to residents and businesses for their properties. Use partnerships to acquire funds through grants or other means to subsidize defensible space upgrades for low-income households, seniors, and residents with disabilities.	13	1	2	2	2	2	2	1		0	0	1	1	0	0	0	1	0
	Action 4.2.4. Adopt an ordinance requiring all persons (who own, lease, control, operate, or maintain an occupied dwelling or structure in, upon, or adjoining land that is covered with flammable material within a very high fire hazard severity zone) to implement fuel reductions between 15 and 30 feet around the structure and to create an ember-resistant zone within 5 feet of the structure. Ensure the ordinance is consistent with the guidance and requirements pursuant to AB 3074.	13	1	3	2	2	2	2	1		0	0	1	0	0	0	0	1	0
	Action 4.2.5. Update local zoning and subdivision codes to designate wildfire hazard overlay zones and associated conditional use, site development standards, and design criteria to mitigate wildfire hazards and reduce risks to new development within the overlay zones.	12	1	2	2	2	2	2	1		0	0	1	0	0	0	0	1	0
	Action 4.2.6. Update site landscaping standards to be fire-adapted using native vegetation or fire-resistant planting palettes and prohibit flammable landscaping plantings or materials storage within the structure ignition zone (e.g., within 0-5 feet of the structure).	12	1	2	2	3	2	2	0		0	0	1	0	0	0	0	1	0
CONSERVATION AND RECREATION																			
STRATEGY 1. ECOSYSTEM PRESERVATION AND CONSERVATION																			
Measure 1.1: Enhance the protection of the county's natural assets and ecosystems and expand natural capital throughout the county, while building climate resilience in the environment.	Action 1.1.1. Support Yosemite Stanislaus Solutions, Tuolumne River Trust, and other stakeholder organizations in their efforts to protect and enhance the county's natural environment and improve climate resilience.	17	1	3	1	3	2	1		1	1	1	0	0	1	1	0	1	
	Action 1.1.2. Protect and restore river basins, watersheds, and ecosystems.	15	1	3	1	1	2	1		1	1	1	0	0	1	1	0	1	
	Action 1.1.3. Create and preserve pollinator habitat to support healthy pollinator populations.	10	1	2	1	2	2	2	0		0	0	0	0	0	1	0	0	1
Measure 1.2: Educate the community about the unique value of the ecosystems in the county and what they can do to protect them.	Action 1.2.1. Support outdoor education programs.	9	1	1	1	3	2	0		0	0	0	0	0	0	0	1	0	
	Action 1.2.2. Educate residents on invasive species management and the importance of choosing native plant species in landscaping projects.	11	1	2	1	2	2	0		0	1	0	0	0	1	0	1	0	
	Action 1.2.3. Educate residents on property maintenance best practices to promote a healthy natural environment.	8	1	2	1	2	2	2	0		0	0	0	0	0	0	0	0	
	Action 1.2.4. Work with property owners who have land zoned as open space to manage and maintain open spaces for ecosystem benefits and wildfire resilience.	13	1	2	1	2	2	2	1		1	0	1	0	0	1	0	0	1
Measure 1.3: Conserve areas, such as wildlife habitat and corridors, wetlands, watersheds, and groundwater recharge areas, that provide carbon sequestration benefits.	Action 1.3.1. Within identified communities, retain oak woodland habitat as much as practical. Efforts could include incorporating oak woodland into landscaped or public spaces to enhance project site aesthetics, using oak woodlands as visual buffers between land uses, and using oak woodland habitat to maintain slopes and reduce onsite runoff.	16	2	2	2	2	2	1		1	1	1	0	0	1	0	0	1	
	Action 1.3.2. Encourage the protection of agricultural lands through programs such as the voluntary purchase of development rights (e.g., conservation easements).	13	2	2	1	3	2	2	0		1	0	0	0	0	1	0	0	1

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STRATEGY 2. ECONOMIC RESILIENCE																				
Measure 2.1: Support residents and businesses in preparing for impacts on industries that may be affected by climate change including the tourism and recreation industries.	Action 2.1.1. Assess potential impacts and benefits to increased tourism and visitation to the county driven by extreme heat impacts in the Central Valley or other parts of California.	11	1	2	3	2	2	0		0	0	0	0	0	0	0	1	0		
	Action 2.1.2. Work with ski resorts and winter sport industry representatives to assess climate-related impacts on their industries and develop forward-thinking strategies to adapt to decreases in snowpack and shorter winter seasons.	11	1	2	1	2	2		1		0	0	0	0	0	0	1	1	0	
	Action 2.1.3. Develop a robust regional and local transit network and expand existing transit services to support tourism and recreation.	14	3	1	1	2	2	1			1	0	0	1	0	0	1	1	0	
Measure 2.2: Establish new recreation and tourism options that are adaptive to climate change.	Action 2.2.1. Partner with Sierra Business Council and work with local business that are expected to be impacted by climate change to identify applicable new business opportunities.	12	1	2	2	2	2		1		0	0	0	0	0	1	1	0		
	Action 2.2.2. Provide job skills training to create new opportunities for transferable skills for local workers currently working in industries expected to be impacted by changes in climate.	12	1	2	2	2	2		1		0	0	0	0	0	1	1	0		
STRATEGY 3. WASTE REDUCTION																				
Measure 3.1: Increase construction and demolition diversion rates.	Action 3.1.1. Adopt a construction and demolition waste recycling ordinance that requires a 75 percent diversion rate by 2030.	9	2	1	2	2	2	0			0	0	0	0	0	0	0	0		
	Measure 3.2: Reduce landfilled waste.	Action 3.2.1. In the 2021 Countywide Integrated Waste Management Plan update, include measures to improve infrastructure required for Senate Bill (SB) 1383 compliance by 2026. Evaluate actions to generate funding for these measures, such as implementing a "pay-as-you-throw" disposal program.	11	2	1	2	3	2	0			0	0	0	0	0	0	1	0	
		Action 3.2.2. Create and implement countywide organic waste diversion programs for residential and nonresidential land uses, as feasible. Prioritize low-cost measures to decrease landfilled waste such as waste prevention outreach and education programs, organic waste capacity planning, and labeling and coloring disposal containers.	12	3	1	2	2	2	1			0	0	0	0	0	0	0	1	0
		Action 3.2.3. Conduct an audit of existing countywide recycling programs for residential and nonresidential land uses and develop and implement an improvement plan to increase recycling diversion.	10	1	1	3	2	2	1			0	0	0	0	0	0	0	0	0
		Action 3.2.4. Continue to offer a program for processing green waste (i.e., brush and yard debris) in the county and increase participation in the program through outreach and education efforts.	12	2	1	2	3	2	1			0	0	0	0	0	0	0	1	0
		Action 3.2.5. Explore the feasibility of expanding anaerobic digestion capacity at existing wastewater treatment plants to allow them to accept food waste.	7	2	1	2	1	1	0			0	0	0	0	0	0	0	0	0
STRATEGY 4. WASTE MANAGEMENT																				
Measure 4.1: Promote responsible consumption of products and materials.	Action 4.1.1. Discourage one-time use or disposable products at restaurants by encouraging reusable items.	10	1	1	1	3	2	1			0	0	0	0	0	0	0	1	0	
	Action 4.1.2. Encourage local consumption whenever possible.	11	1	1	1	3	2	1			0	0	0	0	0	0	1	1	0	
	Action 4.1.3. Develop and adopt an update to the County's procurement policy to integrate sustainability more comprehensively into the procurement process. Include environmentally preferable purchasing policies, such as requiring all contractors to use waste best management practices and only purchasing native and drought-tolerant plants for landscaping.	12	2	2	3	1	2	0			0	1	0	1	0	0	0	0	0	
	Action 4.1.4. Implement on-site composting at all County facilities and ensure that all facilities have adequate composting infrastructure.	10	2	1	3	2	2	0			0	0	0	0	0	0	0	0	0	
	Action 4.1.5. Support recycling- and food recovery-based businesses.	10	1	1	1	3	1	1			0	0	0	0	0	0	1	1	0	

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BUILDINGS																		
STRATEGY 1. ENERGY-EFFICIENT AND RESILIENT NEW BUILDINGS																		
Measure 1.1: Increase energy efficiency and climate resiliency in all new buildings.	Action 1.1.1. Explore building "reach" codes that include energy efficiency measures that go beyond State requirements for new construction.	15	2	2	2	2	2		1	1	1	0	1	1	0	0	0	0
	Action 1.1.2. Encourage the installation of ultra-low-flow water fixtures in new development to reduce water consumption.	11	1	1	1	3	2		1	0	1	0	1	0	0	0	0	0
	Action 1.1.3. Explore the feasibility of reducing wastewater using dry composting toilets in new construction.	8	1	1	1	2	1		0	0	1	0	1	0	0	0	0	0
	Action 1.1.4. Use building materials that are storm-ready and energy efficient.	10	1	2	1	2	1		1	0	0	0	1	0	0	0	1	0
	Action 1.1.5. Adopt heat island reduction design guidelines for new construction.	12	1	2	2	2	2	0		1	0	0	1	0	0	0	1	0
Measure 1.2: Require all new County-owned buildings and facilities to be energy efficient and climate resilient.	Action 1.2.1. Establish a policy to require new County buildings to be constructed to meet a high energy efficiency standard such as the California Green Building Standards Code (CalGREEN).	16	2	2	3	2	2	1		1	1	0	1	1	0	0	0	0
	Action 1.2.2. Implement energy monitoring systems in all new County-owned buildings and facilities to identify opportunities to increase energy efficiency at the building/facility level.	12	1	1	3	2	2	1		1	0	0	1	0	0	0	0	0
STRATEGY 2. ENERGY-EFFICIENT AND RESILIENT EXISTING BUILDINGS																		
Measure 2.1: Increase energy efficiency and climate resiliency in existing residential and nonresidential buildings.	Action 2.1.1. Partner with energy utility providers, building contractors, and other stakeholders to implement an Energy-Resilient Buildings Program modeled after a Regional Energy Network program that focuses on energy efficiency retrofits, improving climate-control (cooling), wildfire smoke and ventilation systems, and energy independence in existing buildings.	19	3	3	2	2	2		1	1	1	0	1	1	0	1	1	0
	Action 2.1.2. Facilitate conversations with homeowners, landlords, and tenants about energy conservation, energy efficiency best practices, green infrastructure, and anticipated monetary savings associated with retrofitting buildings.	15	2	1	1	3	2		1	1	1	0	1	1	0	0	1	0
	Action 2.1.3. Prioritize low-income homeowners and renters as part of the Energy-Resilient Buildings Program and provide information and educational materials to residents focused on cost-effective strategies to keep homes cool during extreme heat events (i.e., four or more consecutive days when the maximum temperature is above 88.6 °F).	15	3	3	2	2	2		1	0	0	0	1	0	0	0	1	0
	Action 2.1.4. Encourage local businesses and commercial building owners to participate in energy benchmarking.	10	1	1	1	3	2		1	0	0	0	1	0	0	0	0	0
	Action 2.1.5. Reduce permit fees and streamline permitting requirements for energy efficiency- and renewable energy-related building renovations.	14	2	2	2	2	2		1	1	0	0	1	1	0	0	0	0
	Action 2.1.6. Develop a streamlined development review process, including discretionary review projects, for energy-independent homes and promote rebates and incentives for installing residential energy storage technologies.	14	2	2	2	2	2		1	0	0	0	1	1	0	0	1	0
	Action 2.1.7. Encourage the installation of cool roofs and/or green roofs on existing buildings.	11	1	2	1	3	1		0	0	1	0	0	0	0	0	1	1
Measure 2.2: Require all existing County-owned buildings and facilities to be energy efficient and climate resilient.	Action 2.2.1. Conduct detailed assessments and develop retrofit plans specific to each existing County-owned building based on the age, type, energy consumed, and climate-related risks. Prioritize buildings and facilities with the highest energy use per area.	15	2	2	3	2	2	1		1	0	0	1	1	0	0	0	0
	Action 2.2.2. Install energy monitoring systems in all existing County-owned buildings and facilities to identify opportunities to increase energy efficiency at the building/facility level.	13	2	1	3	2	2	1		1	0	0	1	0	0	0	0	0
	Action 2.2.3. Retrofit streetlights and outdoor lighting with energy-efficient lights.	11	1	1	3	2	2	1		0	0	0	1	0	0	0	0	0
	Action 2.2.4. Upgrade all plumbing fixtures and irrigation systems at County-owned facilities to be water-efficient (e.g., low-flow, ultra-low-flow).	12	1	2	3	2	2	0		0	1	0	1	0	0	0	0	0

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STRATEGY 3. ENERGY RELIABILITY AND SECURITY																			
Measure 3.1: Increase energy reliability and security to buildings and assets that delivery critical services throughout the county.	Action 3.1.1. Ensure critical facilities have onsite backup power with priority given to facilities in areas vulnerable to climate hazards and those that service vulnerable populations. Install clean backup power sources at critical facilities where feasible.	12	1	3	2	2	2	0			0	0	0	0	1	0	0	1	0
	Action 3.1.2. Consider diversified types of energy generators as well as battery storage systems for increased resiliency to existing and future backup power systems.	11	1	3	1	3	1	0			0	0	0	0	1	0	0	1	0
	Action 3.1.3. Prepare and equip residents and building owners for what to do during a blackout in both hot and cold temperature extremes.	11	1	3	2	2	2	0			0	0	0	0	0	0	0	1	0
	Action 3.1.4. Establish onsite backup power in all County-owned buildings. Use clean backup power where feasible.	12	1	2	3	2	2	0			0	0	0	0	1	0	0	1	0
	Action 3.1.5. Promote incentives and outreach materials on County websites for battery storage or other clean backup power technologies.	13	1	2	2	2	2	1			0	0	0	1	1	0	0	1	0
INFRASTRUCTURE																			
STRATEGY 1. RESILIENT ROADWAY NETWORK																			
Measure 1.1: Incorporate climate projections and considerations into future County infrastructure projects as part of the capital improvement projects process and update infrastructure design standards to incorporate future climate variables including extreme heat thresholds and changes in rainfall and large storm events (e.g., 100-year and 500-year storm events).	Action 1.1.1. Conduct climate-informed hydraulic modeling to identify changes in precipitation patterns and the future intensity of large storm events in the county. Using the climate-informed modeling results, update the County's stormwater management design criteria for new development projects to manage small storm events, as well as large storm events.	11	1	2	3	2	1	0			0	0	0	1	0	0	0	1	0
	Action 1.1.2. Use the Residential Areas Emergency Access Improvements document included in Tuolumne County Transportation Council's (TCTC's) Regional Transportation Plan to prioritize roadway improvement projects for large residential areas with poor ingress and egress options during evacuation scenarios. Prioritize conducting outreach to residents in these areas regarding evacuation scenario information and resources.	11	1	2	3	2	2	0			0	0	0	0	0	0	0	1	0
	Action 1.1.3. Work with TCTC to update the County's General Plan Safety Element to fully assess evacuation route capacity consistent with the requirements of Senate Bill (SB) 99 of 2021 (Community Energy Resilience Act) and Assembly Bill (AB) 747 of 2019.	12	1	3	3	2	2	0			0	0	0	0	0	0	0	1	0
	Action 1.1.4. Prioritize high-risk assets for maintenance, upgrades, and restoration. Integrate design adjustments and changes to operational or maintenance procedures where needed to improve resilience of the infrastructure to climate risks.	12	1	2	2	2	2	1			0	0	0	1	0	0	0	1	0
	Action 1.1.5. Embed climate resilience considerations into requirements and specifications for infrastructure in procurement processes.	14	1	3	3	2	2	1			0	0	0	1	0	0	0	1	0

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STRATEGY 4. RESILIENT AND CLEAN ELECTRICAL GRID																		
Measure 4.1: Transition to 100 percent clean electricity.	Action 4.1.1. Where feasible, develop renewable energy generation capacity at County-owned buildings and facilities.	15	2	2	3	1	2	1		1	0	0	1	1	0	1	0	0
	Action 4.1.2. Encourage development of alternative energy-producing facilities that conserve the county's natural resources such as rooftop solar and wind turbines.	16	3	3	1	2	2	1		1	0	0	1	1	0	1	0	0
	Action 4.1.3. Adopt a community solar program to help realize economies of scale and help residents without appropriate rooftop space to participate in green energy generation.	17	3	3	2	2	2	0		1	0	0	1	1	0	1	1	0
	Action 4.1.4. Encourage energy development and transmission systems planning that prioritizes climate resilience, efficiency, and local benefit.	15	2	3	1	3	2	1		1	0	0	0	1	0	0	1	0
	Action 4.1.5. Provide incentives for clean energy infrastructure and community-based energy projects, prioritizing local renewable energy production.	17	3	3	2	2	2	0		1	0	0	1	1	0	1	1	0
Measure 4.2: Reduce electricity grid demand through load reduction strategies.	Action 4.2.1. Encourage installation of battery storage in conjunction with renewable energy generation projects through engagement campaigns and partner agency incentives.	16	2	3	1	3	1	1		1	0	0	1	1	0	1	1	0
	Action 4.2.2. Assess the feasibility and cost effectiveness of microgrid technologies to increase energy independence for County operations, businesses, and residents during Public Safety Power Shutoff events.	15	2	3	3	2	2	0		1	0	0	0	1	0	0	1	0
	Action 4.2.3. Encourage the adoption of smart grid and other peak load reduction technologies, such as building energy management systems and smart appliances, within new and existing buildings.	13	2	2	1	3	2	1		0	0	0	1	1	0	0	0	0
	Action 4.2.4. Develop microgrids at emergency facilities throughout the county.	14	2	3	2	1	2	0		1	0	0	1	1	0	0	1	0
	Action 4.2.5. Work with Pacific Gas & Electric Company to enhance the reliability of the electrical grid.	14	1	3	2	2	2	1		0	0	0	0	1	0	1	1	0
STRATEGY 5. WATER CONSERVATION AND EFFICIENCY																		
Measure 5.1: Reduce water consumption.	Action 5.1.1. Implement the Tuolumne County Landscaping Requirements, Chapter 15.28 of the Tuolumne County Ordinance Code, which provides for the use of drought-tolerant landscaping plants and materials to conserve water, the use of water conserving irrigation systems for landscaping, and the use of reclaimed or reused water for irrigation.	12	1	3	3	2	2	0		0	1	0	0	0	0	0	0	0
	Action 5.1.2. Work with Tuolumne Utility District (TUD), Groveland Community Services District (GCSD), and other agencies in establishing conservation standards and promoting conservation practices to reduce demand for water.	11	1	2	2	2	2	0		0	1	0	1	0	0	0	0	0
	Action 5.1.3. Support TUD and GCSD in implementing current and planned Demand Management Measures (DMMs) outlined in the TUD 2020 Urban Water Management Plan and GCSD 2015 Urban Water Management Plan. Assist in enforcing TUD's Waste Waste Prevention Ordinances and public education and outreach programs, as feasible.	11	1	3	1	3	2	0		0	1	0	0	0	0	0	0	0
	Action 5.1.4. Promote TUD's Residential Assistance Programs and work with TUD to reinstate the Ultra Low Flush Toilet Rebate program and develop similar initiatives.	12	1	2	1	3	2		1	0	1	0	1	0	0	0	0	0
	Action 5.1.5. Work with the Stanislaus and Tuolumne Rivers Groundwater Basin Association in implementing its Groundwater Sustainability Plan to reduce residential and nonresidential water consumption.	11	1	3	2	2	2	0		0	1	0	0	0	0	0	0	0
	Action 5.1.6. Encourage residents and businesses to install green roofs, rain gardens, roadside plantings, porous pavement, and rainwater harvesting systems to manage water supplies. Promote TUD's Large Landscape program to commercial customers.	12	1	2	1	3	2		1	0	1	0	1	0	0	0	0	0

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AGRICULTURE AND FORESTRY																		
STRATEGY 1. LIVESTOCK MANAGEMENT																		
Measure 1.1: Implement best practices for livestock management.	Action 1.1.1. Work with the County Agricultural Commissioner's office to facilitate forums, training sessions, and capacity-building activities for local farms to continue to implement manure management best practices.	15	3	2	2	3	2	1		0	0	0	0	0	1	0	0	1
	Action 1.1.2. Uphold traditional livestock grazing rights to manage vegetation, protect soil and water, and protect the stability of the communities that depend on range resources.	16	2	3	1	2	2		1	0	1	0	1	0	1	0	1	1
	Action 1.1.3. Use range management to help restore meadows and increase meadow resilience to climate change impacts.	11	1	3	1	1	2		1	0	0	0	0	0	1	0	0	1
STRATEGY 2. ENERGY-EFFICIENT AGRICULTURE																		
Measure 2.1: Transition to electric or alternatively fueled agricultural equipment.	Action 2.1.1. Encourage the use of electric-powered agricultural equipment, as feasible.	8	1	1	1	3	1		0	1	0	0	0	0	0	0	0	0
	Action 2.1.2. Encourage the use of renewable diesel in diesel-powered agricultural equipment where electrification is infeasible.	8	1	1	1	3	1		0	1	0	0	0	0	0	0	0	0
Measure 2.2: Implement agricultural best practices that improve energy efficiency.	Action 2.2.1. Promote energy conservation; increased energy and water use efficiency; and on-farm solar, wind, and other renewable energy production.	16	2	3	1	3	2		1	1	1	0	1	1	0	0	0	0
	Action 2.2.2. Improve energy efficiency of farming practices, equipment, and buildings.	10	1	2	1	2	2		1	0	0	0	1	0	0	0	0	0
STRATEGY 3. CLIMATE-RESILIENT AGRICULTURE																		
Measure 3.1: Implement agricultural best practices that improve resilience to climate impacts.	Action 3.1.1. Encourage mapping of existing crop varieties against future climate projections such as extreme heat, drought, and flood risk. Adjust varieties to address those future conditions, selecting species that are native, drought-tolerant, and adapted to extreme heat.	15	1	3	1	2	2		1	0	1	0	1	0	1	1	0	1
	Action 3.1.2. Encourage networking among agriculture producers to share resources, tools, and knowledge about sustainable, efficient, and resilient agricultural practices.	17	1	3	1	3	2	1		0	1	0	1	0	1	1	1	1
	Action 3.1.3. Significantly decrease or eliminate the use of synthetic fertilizers.	10	1	2	1	2	1		0	0	1	0	0	0	1	0	0	1
	Action 3.1.4. Use cover crops and implement no-till methods to control agricultural runoff, conserve water, and prevent soil erosion and sedimentation.	13	1	2	1	2	2		1	0	1	0	1	0	1	0	0	1
	Action 3.1.5. Encourage the use of low-volume sprinkler and drip irrigation systems and implement compatible crop rotations to improve drought resilience and reduce water consumption.	12	1	2	1	3	2	1		0	1	0	1	0	0	0	0	0
	Action 3.1.6. Develop educational resources that support and promote sustainable agriculture and crop diversification through the County Agricultural Commissioner's office.	13	1	2	2	2	2	0		0	1	0	0	0	1	1	0	1
Measure 3.2: Increase soil organic matter and carbon content.	Action 3.2.1. Develop programs to encourage compost application to enhance soil for carbon sequestration and healthy farms. Utilize existing programs and resources from the California Department of Food and Agriculture's Healthy Soils Program.	17	3	3	2	2	2	0		0	1	0	1	0	1	1	0	1
	Action 3.2.2. Support regenerative farming systems that use perennial groundcover, rotational grazing systems, and other natural approaches to increase crop diversity and improve soil health and soil organic matter, while ensuring fair incomes for farmers.	18	3	3	1	3	2		1	0	1	0	1	0	1	1	0	1
	Action 3.2.3. Encourage farmers and other key stakeholders to pursue innovative agricultural practices that increase the amount of carbon that is removed from the air and stored in soils and working lands.	16	3	2	1	3	1	1		0	1	0	1	0	1	1	0	1

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STRATEGY 4. BIOMASS CONSERVATION																		
Measure 4.1: Reduce open burning (e.g., agricultural burning, backyard burning).	Action 4.1.1. Develop a program to require repurposing of usable lumber from trees removed due to land conversion to avoid wood burning.	11	2	1	2	2	1	0		1	0	1	0	0	0	1	0	0
	Action 4.1.2. Promote and encourage the development of value-added alternatives such as composting, energy, biochar, and wood products to avoid open burning of forest and agricultural biomass wastes.	14	2	1	1	3	1	1		1	0	1	1	1	0	1	0	0
	Action 4.1.3. Establish community programs that reduce residential open burning, such as local pick-up and delivery of vegetative matter to biomass facilities or composting projects that do not create a public nuisance.	12	2	1	2	2	1	0		1	0	0	0	1	0	1	1	0
STRATEGY 5. WATER CONSERVATION AND EFFICIENCY																		
Measure 5.1: Reduce water consumption for irrigation and agriculture.	Action 5.1.1. Encourage programs and promote technologies (e.g., low-volume sprinklers, drip irrigation systems) that improve water efficiency in agricultural operations.	12	1	2	1	3	2		1	0	1	0	1	0	0	0	0	0
	Action 5.1.2. Promote and facilitate the continued use of recycled wastewater for agricultural irrigation, in accordance with the guidelines published by the State Water Resources Control Board.	12	1	2	1	3	2		1	0	1	0	1	0	0	0	0	0
	Action 5.1.3. Work with farmers to investigate and install new technologies such as soil moisture sensors, tensiometers, and field-water-level meters to track water consumption for irrigation purposes.	9	1	2	1	2	1		0	0	1	0	0	0	0	1	0	0
STRATEGY 6. FOREST RESILIENCE																		
Measure 6.1: Improve long-term forest resilience.	Action 6.1.1. Support existing projects and organizations including Yosemite Stanislaus Solutions to ensure the long-term health of forests in areas under the County's jurisdiction, as well as areas managed by State and federal agencies. Balance and integrate fuel modification efforts with habitat and open space management, vegetative soil cover/erosion management, and urban greening to reduce the potential for conflicts between safety and environmental goals.	17	1	3	1	3	2	1		1	1	1	0	0	1	1	0	1
	Action 6.1.2. Create a special assessment district to fund and maintain a fuel modification program to reduce wildfire risk. Ensure the program will identify, prioritize, and fund fuel modification projects in the Local Responsibility Area, and leverage the California Vegetation Treatment Program and Program Environmental Impact Report for eligible projects in the State Responsibility Area.	13	1	3	2	2	1	0		1	0	1	0	0	1	0	0	1
	Action 6.1.3. Use resources in the Governor's Office of Planning and Research Fire Hazard Planning Technical Advisory to guide development of the program. Prioritize fuel modification projects that both reduce wildfire risk and increase forest health and habitat conservation.	13	1	3	2	2	1	0		1	0	1	0	0	1	0	0	1
	Action 6.1.4. Conduct a feasibility study for a Transfer of Development Rights program that identifies undeveloped wildland areas within CAL FIRE-designated high or very high Fire Hazard Severity Zones (FHSZ), or subject to extreme threat as "sending areas," and areas outside of FHSZ or high fire threat areas as "receiving areas."	13	1	2	3	2	1	0		1	0	1	0	0	1	0	0	1
	Action 6.2.1. Practice sequential thinning to reduce fuels and protect dense forest habitat from fire and drought. Perform mechanical thinning in non-controversial areas and use prescribed burning in areas that were mechanically thinned and/or areas that are inaccessible.	13	1	3	1	2	2	0		1	0	1	0	0	1	0	0	1
Measure 6.2: Increase forest resilience to wildfire and drought while protecting dense forest species.	Action 6.2.2. Work with agencies to modify forest and land management plans to allow use of natural ignitions to treat landscape with fire.	13	1	3	1	2	2	1		0	0	1	0	0	1	0	0	1
	Action 6.2.3. Increase fire resilience by designing fuel buffers and removing surface fuels (mechanically or through prescribed fire).	13	1	3	1	2	2	0		1	0	1	0	0	1	0	0	1
	Action 6.2.4. Restore post-fire forested lands using climatically favorable species (e.g., drought-tolerant, shade-intolerant) to make forest and wildlife habitat more resilient to projected climate conditions.	14	1	3	1	3	2	0		1	0	1	0	0	1	0	0	1

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Measure 6.3: Manage vegetation and reduce wildfire risk to promote sequestration.	Action 6.3.1. Implement a vegetation management program to reduce wildfire risk and improve forest health.	15	1	3	2	2	2	1		0	1	1	0	0	1	0	0	1
	Action 6.3.2. Develop vegetation management programs that support enhanced carbon storage in forests, use of durable wood products, and use of wood biomass for energy, while maintaining healthy forest ecosystems.	15	1	3	2	2	2	1		0	0	1	0	1	1	0	0	1
	Action 6.3.3. Plant native trees throughout the county in areas that are not within high FHSZs (unless replanting from previous burns) and along riparian corridors.	12	1	2	1	2	2	0		0	0	1	0	0	1	0	1	1
STRATEGY 7. ECONOMIC RESILIENCE																		
Measure 7.1: Support workers and businesses in preparing for climate change-related economic impacts on agriculture and forestry operations.	Action 7.1.1. Develop a program to provide job skills trainings for local agriculture and forestry workers to create new opportunities using transferable skills.	11	1	2	2	2	2	0		0	0	0	0	0	0	1	1	0
	Action 7.1.2. Through education and information sharing, work with local farmers and ranchers to prepare for extreme heat, drought, and wildfire smoke events on agriculture and livestock operations to minimize economic consequences.	13	1	3	1	3	2	0		0	0	0	1	0	0	1	1	0
	Action 7.1.3. Combine differing land use desires into solutions such as agricultural tourism (agritourism).	9	1	2	1	2	1	0		0	0	0	0	0	0	1	1	0
	Action 7.1.4. Support the development of agritourism and ecotourism businesses that are resilient to changing climatic conditions.	11	1	2	1	3	1	1		0	0	0	0	0	0	1	1	0
	Action 7.1.5. Promote farmland conservation to increase agriculture operations' economic resilience to potential decreases in revenue and costs increases associated with climate change.	14	1	2	1	3	2	1		0	0	0	1	0	1	1	0	1
	Action 7.1.6. Support efforts to develop biomass facilities within the county.	12	2	2	1	2	1	1		0	0	1	0	1	0	1	0	0