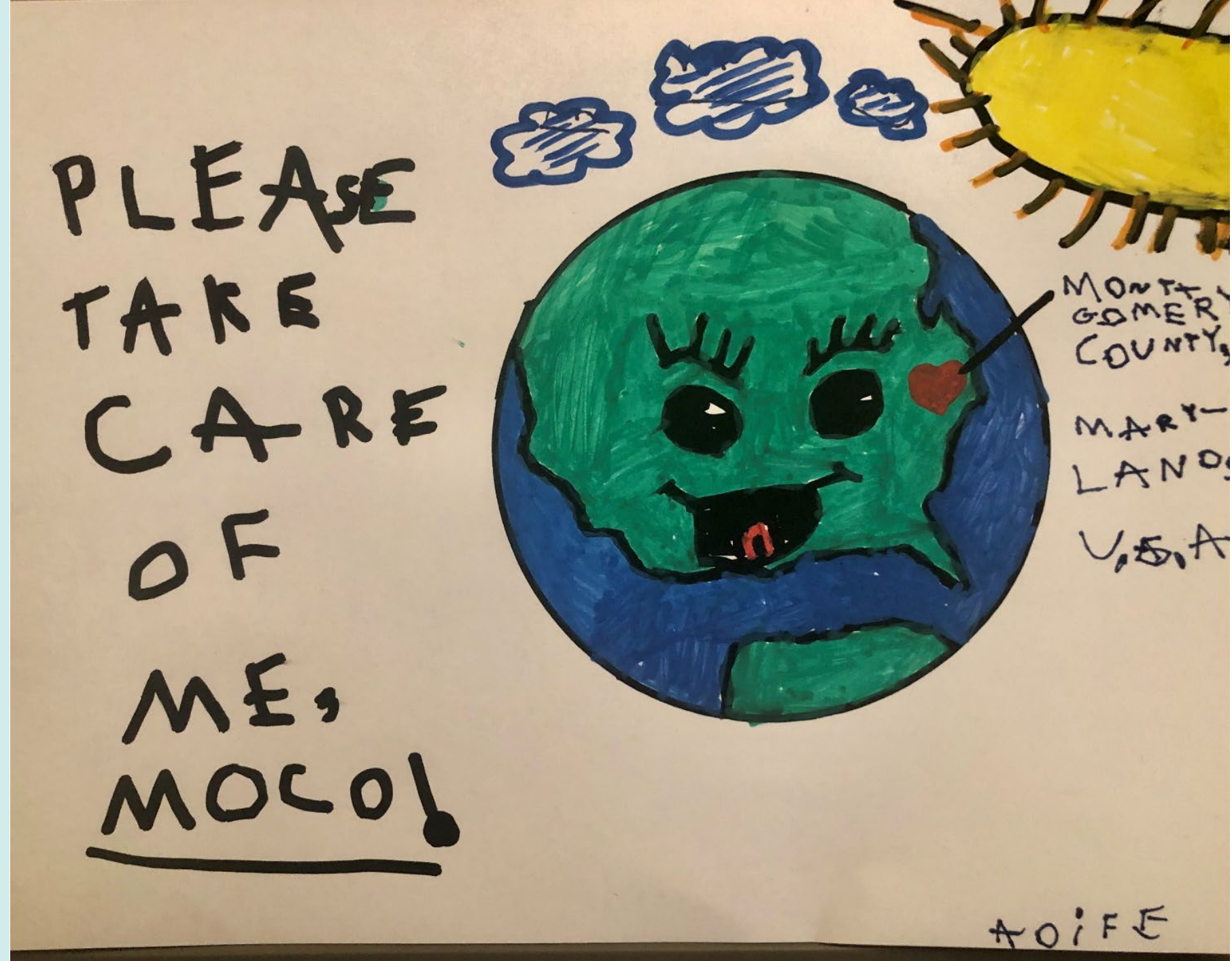


Artist: Anora Singh (Age 11)



Artist: Aoife Devlin (Age 6)

Appendix F: ASAP Tool Ratings of CAP Actions

Legend

Rating Category	Definition
Extent	For the subsector(s) addressed, estimate the proportion of emitters (buildings, individuals, households, etc.) within the subsector(s) that will be targeted by this action.
Reduction Potential	The potential for the technology, behavior change, etc. encouraged by the action to reduce emissions. For the subsector addressed and within the emitters that are targeted by this action, users will estimate the proportion of emissions that could potentially be eliminated by the action.
Uptake Potential	For the subsector addressed and the emitters that are targeted by this action within that subsector, users will estimate the proportion that will likely implement the technological/behavioral change that the action promotes.
Coverage	Indicates the proportion of people, assets, or services impacted by the climate hazard that could be addressed by the action.
Effectiveness	Indicates the people, assets, or services addressed by an action and represents the degree to which the action will alleviate the impacts.

Action GHG Reduction and Climate Risk Reduction ASAP Ratings

Action	Emissions Reduction Ratings				Climate Risk Reduction Ratings		
	Emission Source Category(ies)	Extent	Reduction Potential	Uptake Potential	Climate Hazard Category(ies)	Coverage	Effectiveness
E-1: Community Choice Energy Program	Electric Grid	80%-100%	80%-100%	80%-100%	N/A	N/A	N/A
E-2: Private Building Solar Photovoltaic Code Requirements	Stationary Energy	60%-79%	80%-100%	0-19%	N/A	N/A	N/A
E-3: Promote Private Solar Photovoltaic Systems	Stationary Energy	40%-59%	80%-100%	0-19%	N/A	N/A	N/A
E-4: Public Facility Solar Photovoltaic Installations and Groundwork	Stationary Energy	0-19%	80%-100%	40%-59%	N/A	N/A	N/A
E-5: Advocate for a 100% Renewable Portfolio Standard by 2030	Electric Grid	N/A	N/A	N/A	N/A	N/A	N/A
B-1: Electrification Requirements for Existing Commercial and Public Buildings	Stationary Energy	80%-100%	80%-100%	80%-100%	N/A	N/A	N/A
B-2: Electrification Requirements for Existing Residential Buildings	Stationary Energy	80%-100%	80%-100%	80%-100%	N/A	N/A	N/A

Action	Emissions Reduction Ratings				Climate Risk Reduction Ratings		
	Emission Source Category(ies)	Extent	Reduction Potential	Uptake Potential	Climate Hazard Category(ies)	Coverage	Effectiveness
B-3: Energy Performance Standard for Existing Commercial and Multifamily Buildings	Stationary Energy	80%-100%	40%-59%	80%-100%	Drought	20%-39%	60%-79%
B-4: Electrification Incentives for Existing Buildings	Stationary Energy	80%-100%	80%-100%	0-19%	N/A	N/A	N/A
B-5: All-Electric Building Code for New Construction	Stationary Energy	0-19%	0-19%	0-19%	Drought	20%-39%	60%-79%
B-6: Disincentivize and/or Eliminate Natural Gas in New Construction	Stationary Energy	0-19%	0-19%	0-19%	N/A	N/A	N/A
B-7: Net-Zero Energy Building Code for New Construction	Stationary Energy	0-19%	80%-100%	80%-100%	N/A	N/A	N/A
T-1: Expand Public Transit	On-road Transportation	80%-100%	80%-100%	0-19%	N/A	N/A	N/A
T-2: Expand Active Transportation and Micromobility Network	On-road Transportation	80%-100%	80%-100%	0-19%	N/A	N/A	N/A
T-3: Private Vehicle Electrification Incentives and Disincentives	On-road Transportation	80%-100%	80%-100%	0-19%	N/A	N/A	N/A
T-4: Constrain Cars in Urban Areas, Limit Major New Road Construction	On-road Transportation	80%-100%	80%-100%	0-19%	N/A	N/A	N/A
T-5: Zero-Emission Public Buses and School Buses	On-road Transportation	0-19%	80%-100%	80%-100%	N/A	N/A	N/A
T-6: Electrify County and Public Agencies Fleet	On-road Transportation	0-19%	80%-100%	80%-100%	N/A	N/A	N/A
T-7: Expand the Electric Vehicle Charging Network	On-road Transportation	80%-100%	80%-100%	0-19%	N/A	N/A	N/A
T-8: Transportation Demand Management and Telework Strategies	On-road Transportation	0-19%	80-100%	40%-59%	N/A	N/A	N/A
T-9: Traffic Management Systems	On-road Transportation	40%-59%	0-19%	80%-100%	N/A	N/A	N/A

Action	Emissions Reduction Ratings				Climate Risk Reduction Ratings		
	Emission Source Category(ies)	Extent	Reduction Potential	Uptake Potential	Climate Hazard Category(ies)	Coverage	Effectiveness
T-10: Electric Vehicle Car Share Program for Low-Income Communities	On-road Transportation	0-19%	80-100%	0-19%	N/A	N/A	N/A
T-11: Off-Road Vehicle and Equipment Electrification	On-road Transportation	80%-100%	80%-100%	0-19%	N/A	N/A	N/A
T-12: Advocate for Vehicle Carbon/Gas Tax or VMT Tax	On-road Transportation	N/A	N/A	N/A	N/A	N/A	N/A
T-13: Advocate for Rail Alternative Fuels	Railway Transportation	N/A	N/A	N/A	N/A	N/A	N/A
A-1: Water Infrastructure Resilience	N/A	N/A	N/A	N/A	Precipitation	60%-79%	40%-59%
A-2: Repair and Enhancement of Stormwater Conveyance Systems	N/A	N/A	N/A	N/A	Precipitation	40%-59%	60%-79%
A-3: Temperature Monitoring and Alerts	N/A	N/A	N/A	N/A	Temperature	40%-59%	40%-59%
A-4: Extreme Weather Energy Efficiency Building Code	N/A	N/A	N/A	N/A	Temperature	20%-30%	60%-79%
A-5: Climate-Adapted Housing Incentives/Subsidies	N/A	N/A	N/A	N/A	Temperature	20%-30%	60%-79%
A-6: Green/Cool/PV Roof and Pavement Code	N/A	N/A	N/A	N/A	Temperature	20%-30%	40%-59%
A-7: Green Public Spaces	N/A	N/A	N/A	N/A	Precipitation	20%-30%	40%-59%
A-8: Harden Emergency Shelters and Install Resilience Hubs		N/A	N/A	N/A	Temperature	0-19%	60%-79%
A-9: Mold Protection and Remediation	N/A	N/A	N/A	N/A	Precipitation	0-19%	60%-79%
A-10: Green Infrastructure	N/A	N/A	N/A	N/A	Precipitation	0-19%	60%-79%

Action	Emissions Reduction Ratings				Climate Risk Reduction Ratings		
	Emission Source Category(ies)	Extent	Reduction Potential	Uptake Potential	Climate Hazard Category(ies)	Coverage	Effectiveness
A-11: Climate-Adapted Development Standards	N/A	N/A	N/A	N/A	Precipitation	0-19%	40%-59%
A-12: Stormwater Retention Credit Trading	N/A	N/A	N/A	N/A	Precipitation	0-19%	40%-59%
A-13: Ban Stormwater Management Requirement Waivers	N/A	N/A	N/A	N/A	Precipitation	0-19%	40%-59%
A-14: Update Floodplain Maps	N/A	N/A	N/A	N/A	Precipitation	0-19%	40%-59%
A-15: Water Supply Protection	N/A	N/A	N/A	N/A	Drought	0-19%	80%-100%
A-16: Flood Rescue Resources	N/A	N/A	N/A	N/A	Precipitation	0-19%	20%-39%
A-17: On-Site Water Reuse	N/A	N/A	N/A	N/A	Drought	0-19%	20%-39%
A-18: Expanded Community Gardens	N/A	N/A	N/A	N/A	Drought	0-19%	0-19%
A-19: Advocacy for Off-River Water Storage	N/A	N/A	N/A	N/A	Drought	N/A	N/A
A-20: Study Potential for Buildings in the County to Flood and Possible Remedies	N/A	N/A	N/A	N/A	Precipitation	N/A	N/A
S-1: Retain and Increase Forests	N/A	N/A	N/A	N/A	Precipitation	20%-39%	40%-59%
S-2: Retain and Increase Tree Canopy	N/A	N/A	N/A	N/A	Temperature	40%-59%	40%-59%
S-3: Restore and Enhance Meadows and Wetlands	N/A	N/A	N/A	N/A	Precipitation	20%-39%	40%-59%
S-4: Regenerative Agriculture	N/A	N/A	N/A	N/A	High Winds	20%-39%	20%-39%
S-5: Restore Soil Fertility, Microbial Activity, and Moisture-Holding Capacity	N/A	N/A	N/A	N/A	Precipitation	40%-59%	0-19%
S-6: Whole-System Carbon Management and Planning	N/A	N/A	N/A	N/A	Precipitation	0-19%	0-19%

Action Co-Benefit and Feasibility ASAP Ratings

Action	Co-Benefit Ratings				Feasibility Ratings		
	Public Health	Environmental Stewardship	Economic Prosperity	Racial Equity and Social Justice	County Authority	Initial Investment - County	Initial Investment – Non-County
E-1: Community Choice Energy Program	Neutral	Neutral	Somewhat Positive	Neutral	Outside County authority or requires collaboration	Some initial cost (\$100k-\$1M)	Low initial cost (<\$10M)
E-2: Private Building Solar Photovoltaic Code Requirements	Neutral	Neutral	Somewhat Positive	Somewhat Negative	County – would require new policy or policy amendment	Some initial cost (\$100k-\$1M)	Large initial cost (>\$100M)
E-3: Promote Private Solar Photovoltaic Systems	Neutral	Neutral	Very Positive	Very Positive	Outside County authority or requires collaboration	Large initial cost (>\$1M)	Some initial cost (\$10-\$100M)
E-4: Public Facility Solar Photovoltaic Installations and Groundwork	Neutral	Neutral	Somewhat Positive	Neutral	Outside County authority or requires collaboration	Large initial cost (>\$1M)	Low initial cost (<\$10M)
E-5: Advocate for a 100% Renewable Portfolio Standard by 2030	Neutral	Neutral	Neutral	Neutral	County – under existing policy	Low initial cost (<\$100k)	Low initial cost (<\$10M)
B-1: Electrification Requirements for Existing Commercial and Public Buildings	Somewhat Positive	Neutral	Somewhat Positive	Very Negative	Outside County authority or requires collaboration	Some initial cost (\$100k-\$1M)	Large initial cost (>\$100M)
B-2: Electrification Requirements for Existing Residential Buildings	Somewhat Positive	Neutral	Somewhat Positive	Very Negative	Outside County authority or requires collaboration	Some initial cost (\$100k-\$1M)	Large initial cost (>\$100M)
B-3: Energy Performance Standard for Existing Commercial & Multifamily Buildings	Somewhat Positive	Neutral	Somewhat Positive	Somewhat Negative	County – would require new policy or policy amendment	Large initial cost (>\$1M)	Large initial cost (>\$100M)
B-4: Electrification Incentives for Existing Buildings	Somewhat Positive	Neutral	Very Positive	Neutral	Outside County authority or requires collaboration	Large initial cost (>\$1M)	Some initial cost (\$10-\$100M)

Action	Co-Benefit Ratings				Feasibility Ratings		
	Public Health	Environmental Stewardship	Economic Prosperity	Racial Equity and Social Justice	County Authority	Initial Investment - County	Initial Investment – Non-County
B-5: All-Electric Building Code for New Construction	Somewhat Positive	Neutral	Neutral	Neutral	Outside County authority or requires collaboration	Some initial cost (\$100k-\$1M)	Some initial cost (\$10-\$100M)
B-6: Disincentivize and/or Eliminate Natural Gas in New Construction	Somewhat Positive	Neutral	Neutral	Somewhat Negative	Outside County authority or requires collaboration	Some initial cost (\$100k-\$1M)	Some initial cost (\$10-\$100M)
B-7: Net Zero Energy Building Code for New Construction	Somewhat Positive	Neutral	Somewhat Positive	Neutral	County – would require new policy or policy amendment	Large initial cost (>\$1M)	Some initial cost (\$10-\$100M)
T-1: Expand Public Transit	Very Positive	Neutral	Very Positive	Very Positive	Outside County authority or requires collaboration	Large initial cost (>\$1M)	Low initial cost (<\$10M)
T-2: Expand Active Transportation and Micromobility Network	Very Positive	Neutral	Very Positive	Very Positive	County – under existing policy	Large initial cost (>\$1M)	Low initial cost (<\$10M)
T-3: Private Vehicle Electrification Incentives and Disincentives	Very Positive	Neutral	Very Positive	Somewhat Negative	County – would require new policy or policy amendment	Large initial cost (>\$1M)	Large initial cost (>\$100M)
T-4: Constrain Cars in Urban Areas, Limit Major New Road Construction	Very Positive	Neutral	Neutral	Somewhat Negative	Outside County authority or requires collaboration	Large initial cost (>\$1M)	Low initial cost (<\$10M)
T-5: Zero-Emission Public Buses and School Buses	Somewhat Positive	Neutral	Somewhat Positive	Very Positive	County – under existing policy	Large initial cost (>\$1M)	Low initial cost (<\$10M)
T-6: Electrify County and Public Agencies Fleet	Somewhat Positive	Neutral	Somewhat Positive	Very Positive	County – under existing policy	Large initial cost (>\$1M)	Low initial cost (<\$10M)
T-7: Expand the Electric Vehicle Charging Network	Very Positive	Neutral	Very Positive	Neutral	Outside County authority or requires collaboration	Large initial cost (>\$1M)	Some initial cost (\$10-\$100M)

Action	Co-Benefit Ratings				Feasibility Ratings		
	Public Health	Environmental Stewardship	Economic Prosperity	Racial Equity and Social Justice	County Authority	Initial Investment - County	Initial Investment – Non-County
T-8: Transportation Demand Management and Telework Strategies	Very Positive	Neutral	Somewhat Positive	Somewhat Positive	County – would require new policy or policy amendment	Large initial cost (>\$1M)	Low initial cost (<\$10M)
T-9: Traffic Management Systems	Somewhat Positive	Neutral	Neutral	Neutral	Outside County authority or requires collaboration	Large initial cost (>\$1M)	Large initial cost (>\$100M)
T-10: Electric Vehicle Carshare Program for Low Income Communities	Somewhat Positive	Neutral	Somewhat Positive	Very Positive	County – would require new policy or policy amendment	Large initial cost (>\$1M)	Low initial cost (<\$10M)
T-11: Off-Road Vehicle and Equipment Electrification	Somewhat Positive	Neutral	Neutral	Somewhat Negative	County – would require new policy or policy amendment	Large initial cost (>\$1M)	Large initial cost (>\$100M)
T-12: Advocate for Vehicle Carbon/Gas Tax or VMT Tax	Neutral	Neutral	Neutral	Neutral	Outside County authority or requires collaboration	Low initial cost (<\$100k)	Low initial cost (<\$10M)
T-13: Advocate for Rail Alternative Fuels	Neutral	Neutral	Neutral	Neutral	County – under existing policy	Low initial cost (<\$100k)	Low initial cost (<\$10M)
A-1: Water Infrastructure Resilience	Very Positive	Somewhat Positive	Neutral	Somewhat Positive	Outside County authority or requires collaboration	Low initial cost (<\$100k)	Low initial cost (<\$10M)
A-2: Culvert and Outfall Repairs	Somewhat Positive	Somewhat Positive	Neutral	Somewhat Positive	County – under existing policy	Large initial cost (>\$1M)	Low initial cost (<\$10M)
A-3: Temperature Monitoring and Alerts	Somewhat Positive	Neutral	Neutral	Very Positive	County – would require new policy or policy amendment	Some initial cost (\$100k-\$1M)	Low initial cost (<\$10M)
A-4: Extreme Weather Energy Efficiency Building Code	Somewhat Positive	Neutral	Neutral	Somewhat Positive	County – would require new policy or policy amendment	Large initial cost (>\$1M)	Some initial cost (\$10-\$100M)
A-5: Climate-Adapted Housing Incentives/ Subsidies	Very Positive	Neutral	Somewhat Positive	Somewhat Positive	County – would require new policy or policy amendment	Large initial cost (>\$1M)	Low initial cost (<\$10M)
A-6: Green/Cool/PV Roof and Pavement Code	Very Positive	Somewhat Positive	Very Positive	Very Negative	County – would require new policy or policy amendment	Some initial cost (\$100k-\$1M)	Large initial cost (>\$100k)

Action	Co-Benefit Ratings				Feasibility Ratings		
	Public Health	Environmental Stewardship	Economic Prosperity	Racial Equity and Social Justice	County Authority	Initial Investment - County	Initial Investment – Non-County
A-7: Green Public Spaces	Somewhat Positive	Very Positive	Neutral	Neutral	County – would require new policy or policy amendment	Large initial cost (>\$1M)	Low initial cost (<\$10M)
A-8: Harden Emergency Shelters and Install Resilience Hubs	Very Positive	Neutral	Neutral	Very Positive	Outside County authority or requires collaboration	Large initial cost (>\$1M)	Low initial cost (<\$10M)
A-9: Mold Protection and Remediation	Very Positive	Neutral	Somewhat Positive	Very Positive	County – would require new policy or policy amendment	Large initial cost (>\$1M)	Some initial cost (\$10-\$100M)
A-10: Green Infrastructure	Somewhat Positive	Very Positive	Neutral	Neutral	County – would require new policy or policy amendment	Large initial cost (>\$1M)	Some initial cost (\$10-\$100M)
A-11: Climate-Adapted Development Standards	Somewhat Positive	Neutral	Neutral	Somewhat Positive	County – would require new policy or policy amendment	Large initial cost (>\$1M)	Large initial cost (>\$100k)
A-12: Stormwater Retention Credit Trading	Somewhat Positive	Somewhat Positive	Neutral	Neutral	County – would require new policy or policy amendment	Some initial cost (\$100k-\$1M)	Low initial cost (<\$10M)
A-13: Ban Stormwater Management Requirement Waivers	Somewhat Positive	Somewhat Positive	Somewhat Negative	Neutral	County – would require new policy or policy amendment	Low initial cost (<\$100k)	Some initial cost (\$10-\$100M)
A-14: Update Floodplain Maps	Neutral	Neutral	Neutral	Neutral	County – would require new policy or policy amendment	Some initial cost (\$100k-\$1M)	Low initial cost (<\$10M)
A-15: Water Supply Protection	Very Positive	Very Positive	Neutral	Somewhat Positive	County – would require new policy or policy amendment	Large initial cost (>\$1M)	Low initial cost (<\$10M)
A-16: Flood Rescue Resources	Somewhat Positive	Neutral	Somewhat Positive	Somewhat Positive	County – under existing policy	Large initial cost (>\$1M)	Low initial cost (<\$10M)
A-17: On-Site Water Reuse	Neutral	Somewhat Positive	Neutral	Somewhat Positive	Outside County authority or requires collaboration	Some initial cost (\$100k-\$1M)	Low initial cost (<\$10M)
A-18: Expanded Community Gardens	Very Positive	Somewhat Positive	Somewhat Positive	Somewhat Positive	County – would require new policy or policy amendment	Low initial cost (<\$100k)	Low initial cost (<\$10M)

Action	Co-Benefit Ratings				Feasibility Ratings		
	Public Health	Environmental Stewardship	Economic Prosperity	Racial Equity and Social Justice	County Authority	Initial Investment - County	Initial Investment – Non-County
A-19: Advocacy for Off-River Water Storage	Neutral	Neutral	Neutral	Neutral	Outside County authority or requires collaboration	Low initial cost (<\$100k)	Large initial cost (>\$100k)
A-20: Study Potential for Buildings in the County to Flood and Possible Remedies	Neutral	Neutral	Neutral	Neutral	County – under existing policy	Some initial cost (\$100k-\$1M)	Low initial cost (<\$10M)
S-1: Retain and Increase Forests	Very Positive	Very Positive	Somewhat Positive	Somewhat Positive	County – would require new policy or policy amendment	Large initial cost (>\$1M)	Low initial cost (<\$10M)
S-2: Retain and Increase Tree Canopy	Very Positive	Very Positive	Very Positive	Somewhat Positive	County – would require new policy or policy amendment	Large initial cost (>\$1M)	Low initial cost (<\$10M)
S-3: Restore and Enhance Meadows and Wetlands	Very Positive	Very Positive	Very Positive	Somewhat Positive	County – would require new policy or policy amendment	Large initial cost (>\$1M)	Low initial cost (<\$10M)
S-4: Regenerative Agriculture	Somewhat Positive	Somewhat Positive	Neutral	Neutral	County – would require new policy or policy amendment	Large initial cost (>\$1M)	Low initial cost (<\$10M)
S-5: Restore Soil Fertility, Microbial Activity, and Moisture-Holding Capacity	Somewhat Positive	Very Positive	Neutral	Neutral	County – would require new policy or policy amendment	Some initial cost (\$100k-\$1M)	Some initial cost (\$10-\$100M)
S-6: Whole-System Carbon Management and Planning	Neutral	Neutral	Neutral	Neutral	County – under existing policy	Low initial cost (<\$100k)	Low initial cost (<\$10M)

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