

IMAGINE 2050 OUTCOMES MEASUREMENT PROGRAM: TECHNICAL APPENDIX C (PROPOSED MEASURES)



Reference number	Measure description	Type of measure	Regional goal(s) and policy area(s)	Related to another policy area
1	Labor force participation rate	Regional indicator	Equitable and inclusive; Healthy and safe; Dynamic and resilient	
2	Percentage of the population age 25-44 with a certificate, an Associate Degree or higher, or an industry-recognized credential	Regional indicator	Equitable and inclusive; Healthy and safe; Dynamic and resilient	
3	Share or rate of youth (age 16 to 24) who are not attending school or employed ('Youth Disconnection' rate)	Regional indicator	Equitable and inclusive; Healthy and safe; Dynamic and resilient	
4	Unemployment rate	Regional indicator	Equitable and inclusive; Healthy and safe; Dynamic and resilient	
5	Share of region's population under age 65 without health insurance	Regional indicator	Equitable and inclusive; Healthy and safe; Dynamic and resilient	
6	(Estimated) Households with at least \$2,000 in emergency savings	Regional indicator	Equitable and inclusive; Healthy and safe; Dynamic and resilient	
7	(Estimated) Median net worth (households)	Regional indicator	Equitable and inclusive; Healthy and safe; Dynamic and resilient	
8	Change in median hourly wage compared with change in cost of living	Regional indicator	Equitable and inclusive; Healthy and safe; Dynamic and resilient	
9	Share of full-time year-round workers age 25 - 64 earning a family sustaining wage	Regional indicator	Equitable and inclusive; Dynamic and resilient	
10	Number of deeply affordable housing units per 10,000 very low-income households	Regional indicator	Equitable and inclusive; Healthy and safe; Dynamic and resilient	

Reference number	Measure description	Type of measure	Regional goal(s) and policy area(s)	Related to another policy area
11	Rate of households experiencing housing cost burden (per 100,000)	Regional indicator	Equitable and inclusive; Healthy and safe; Dynamic and resilient	
12	Bias motivated crime rate per 10,000 residents	Regional indicator	Equitable and inclusive	
13	Age-adjusted premature deaths	Regional indicator	Equitable and inclusive; Healthy and safe	
14	Rate of people experiencing food insecurity	Regional indicator	Equitable and inclusive; Healthy and safe	
15	Rate of people experiencing homelessness	Regional indicator	Equitable and inclusive; Healthy and safe; Housing	
16	Share of region's population living in areas with extreme heat	Regional indicator	Equitable and inclusive; Healthy and safe; Climate change	
17	Share of region's population within a 10-minute walk to a park	Regional measure	Equitable and inclusive; Healthy and safe; Dynamic and resilient	
18	Visits to regional parks and trails per capita	Regional measure	Equitable and inclusive; Healthy and safe; Regional parks and trails	
19	Number of trees planted in areas with extreme heat supported by Met Council Community Tree Planting Grants	Met Council measure	Equitable and inclusive; Healthy and safe; Natural systems	
20	Regional average of tree canopy coverage	Regional indicator	Equitable and inclusive; Natural systems; Land use	
21	Regional average of tree canopy coverage in areas with extreme heat	Regional indicator	Equitable and inclusive; Climate change	
22	Developed acreage in Flood Impact Zones (FIZ)	Regional indicator	Equitable and inclusive; Dynamic and resilient; Natural systems	
23	Share of region's housing units at high risk for localized flooding	Regional indicator	Equitable and inclusive; Dynamic and resilient	

Reference number	Measure description	Type of measure	Regional goal(s) and policy area(s)	Related to another policy area
24	Share of region's population living in Flood Impact Zones (FIZ), i.e., areas with heightened risk of localized flooding	Regional indicator	Equitable and inclusive; Healthy and safe; Climate change	
25	Growth rate of impervious surface acreage per household	Regional indicator	Equitable and inclusive; Natural systems; Land use	
26	Regional acreage under conservation easement	Regional measure	Equitable and inclusive; Natural systems	
27	Wastewater service cost per unit compared to national rates	Met Council measure	Healthy and safe; Dynamic and resilient; Water	
28	Percent compliance with National Pollution Discharge Elimination Systems (NPDES) permits	Met Council measure	Healthy and safe; Dynamic and resilient; Water	
29	Number of evictions filed per 100 renter households	Regional indicator	Healthy and safe; Housing	
30	Number of all serious injuries in crashes	Regional indicator	Healthy and safe	
31	Number of fatalities in crashes	Regional indicator	Healthy and safe	
32	Total crimes recorded by Metro Transit Police department per 100,000 riders	Met Council measure	Healthy and safe	
33	(Group A) Crime rate per 100,000 residents	Regional indicator	Healthy and safe	
34	Average number of poor mental health days reported within the past 30 days	Regional indicator	Healthy and safe	
35	Average number of poor physical health days reported within the past 30 days	Regional indicator	Healthy and safe	
36	Social isolation prevalence among adults age 18 and older	Regional indicator	Healthy and safe	
37	Proportion of regionwide open space acreage to population	Regional indicator	Healthy and safe; Dynamic and resilient; Natural systems; Land use	

Reference number	Measure description	Type of measure	Regional goal(s) and policy area(s)	Related to another policy area
38	Heat-related hospitalizations (age-adjusted) per 100,000 residents	Regional indicator	Healthy and safe	
39	Net migration	Regional indicator	Dynamic and resilient	
40	Net population change	Regional indicator	Dynamic and resilient; Land use	
41	Median home purchase price	Regional indicator	Dynamic and resilient	Housing
42	Change in average energy prices compared with change in cost of living	Regional indicator	Dynamic and resilient	
43	Indemnity amount paid on crop insurance	Regional indicator	Dynamic and resilient; Climate change	
44	Average job accessibility by car (30 minutes)	Regional indicator	Dynamic and resilient	
45	Average job accessibility by transit (45 minutes)	Regional indicator	Dynamic and resilient	
46	Share of transportation and transit assets' value within Flood Impact Zones (FIZ)	Regional measure	Dynamic and resilient; Climate change	
47	Total acreage of contaminated land cleaned-up	Regional measure	Dynamic and resilient; Natural systems; Land use	Water
48	Total acreage of contaminated land cleaned-up supported by Met Council's LCA-TBRA program	Met Council measure	Dynamic and resilient; Natural systems; Land use	Water
49	Number of business establishments born during the past 12 months	Regional indicator	Dynamic and resilient	
50	Number of business establishments exited during the past 12 months	Regional indicator	Dynamic and resilient	
51	Direct vacancy rate of industrial market real estate	Regional indicator	Dynamic and resilient	
52	Direct vacancy rate of office market real estate	Regional indicator	Dynamic and resilient	

Reference number	Measure description	Type of measure	Regional goal(s) and policy area(s)	Related to another policy area
53	Total Metro Transit System Ridership	Met Council measure	Dynamic and resilient; Climate change	
54	Total regional cumulative solar capacity (Megawatts AC)	Regional indicator	Dynamic and resilient; Climate change	
55	Regional average of daily vehicle miles traveled (VMT) per capita	Regional indicator	Climate change; Land use	
56	Share of areas with high risk of localized flooding where adjacent areas have >25% impervious surface coverage	Regional indicator	Climate change	
57	Share of Met Council-owned facilities with climate-resilient landscape management practices	Met Council measure	Climate change; Natural systems	
58	Metric tons of CO2 equivalent sequestered by the region's natural systems per capita	Regional indicator	Climate change; Natural systems	
59	Percent change in greenhouse gas emissions (metric tons) from Met Council operations (2005, 2023 baselines)	Met Council measure	Climate change	
60	Regional greenhouse gas (GHG) emissions per capita	Regional indicator	Climate change; Natural systems; Land use	
61	Share of Met Council total fleet mileage driven in electric and alternative fuel vehicles	Met Council measure	Climate change	
62	Total annual greenhouse gas emissions (metric tons) from regional transportation	Regional measure	Climate change	
63	Total greenhouse gas emissions (metric tons) from Met Council operations	Met Council measure	Climate change	
64	Share of electric, light-duty vehicles on the road	Regional indicator	Climate change	

Reference number	Measure description	Type of measure	Regional goal(s) and policy area(s)	Related to another policy area
65	Share of region's population living in communities with SolSmart designation	Regional measure	Climate change	
66	Total publicly available electric vehicle charging stations	Regional indicator	Climate change	
67	Number of ash tree removals supported by Met Council Community Tree Planting Grants	Met Council measure	Natural systems	
68	Metric tones of CO2 equivalent sequestered by the Regional Parks and Trails System (per square km)	Regional measure	Natural systems; Regional parks and trails	
69	Volume of de-icing salt purchased for use at Metropolitan Council facilities	Met Council measure	Natural systems	
70	Number of Met Council Priority Waters delisted from MPCA Impaired Waters list	Regional indicator	Natural systems	
71	Number of Met Council Priority Waters newly listed on MPCA Impaired Waters list	Regional indicator	Natural systems	
72	Net change in land acreage within the MUSA (Metropolitan Urban Service Area)	Regional measure	Land use; Housing	
73	Share of vacant infill acreage that is developed	Regional measure	Land use	
74	Net change in economic land use intensity (jobs per acre) on land previously developed (2010 or 2020 baseline)	Regional measure	Land use	Water; Transportation
75	Net change in economic land use intensity (jobs per acre) in areas prioritized for redevelopment in 2040 local comprehensive plans	Regional measure	Land use	Water; Transportation

Reference number	Measure description	Type of measure	Regional goal(s) and policy area(s)	Related to another policy area
76	Net change (acreage) in land guided from lower to higher densities	Regional measure	Land use	Housing; Water; Transportation
77	Net change (acreage) in land guided from non-residential uses to uses that permit residential development	Regional measure	Land use	Housing; Water; Transportation
78	Land consumption rate of single-family detached housing	Regional measure	Land use; Housing	
79	Net change in residential land use intensity (household per acre) on land previously developed (2010 or 2020 baseline)	Regional measure	Land use	Water; Transportation
80	Net change in residential land use intensity (household per acre) in areas prioritized for redevelopment in 2040 local comprehensive plans	Regional measure	Land use	Water; Transportation
81	Average housing units per acre near LRT and BRT transit stations	Regional indicator	Land use	Housing; Transportation
82	Net change in the region's housing units (by housing type)	Regional indicator	Land use	Housing; Water; Transportation
83	Transportation accessibility (by mode) to neighborhood amenities	Regional indicator	Land use	Housing; Transportation
84	Travelsheds of regional parks and trails by mode	Regional indicator	Land use; Regional parks and trails	Transportation
85	Net change in natural systems acreage protected under conservation easements	Regional measure	Land use	
86	Regional acreage of Flood Impact Zones (FIZ)	Regional indicator	Land use	
87	Programs and policies adopted by local governments to enhance climate resiliency and natural systems	Regional measure	Land use	
88	Programs and policies adopted by local governments to mitigate and reduce greenhouse gas emissions	Regional measure	Land use	
89	Net change in productive agricultural acreage	Regional indicator	Land use	Water

Reference number	Measure description	Type of measure	Regional goal(s) and policy area(s)	Related to another policy area
90	Rate of households experiencing housing cost burden	Regional indicator	Housing	
91	Change in housing costs compared with change in cost of living	Regional indicator	Housing	
92	Share of Metro HRA's Housing Choice Voucher (HCV) households experiencing housing cost burden	Met Council measure	Housing	
93	Share of the region's need for new affordable units that was built	Regional measure	Housing	
94	Share of deeply affordable housing units produced region-wide with LCA funding	Met Council measure	Housing	
95	New housing units (by AMI) supported by LCA grant funds	Met Council measure	Housing	
96	Number of housing units (by AMI) preserved by LCA grant funds	Met Council measure	Housing	
97	Programs and policies adopted by local governments to advance affordable housing production	Regional measure	Housing	
98	Programs and policies adopted by local governments to enhance housing stability	Regional measure	Housing	
99	Net change in the region's housing units by housing type	Regional indicator	Housing	
100	Net change (acreage) in land guided from lower to higher densities for residential development	Regional measure	Housing	Land use
101	Average density of new affordable housing construction	Regional measure	Housing	Land use
102	Built environment characteristics of new affordable housing developments	Regional measure	Housing	Land use
103	Average transportation accessibility (by mode) of new affordable housing developments to neighborhood amenities	Regional indicator	Housing	Land use; Transportation
104	Metro HRA's Section 8 Management Assessment Program (SEMAP) utilization rate	Met Council measure	Housing	

Reference number	Measure description	Type of measure	Regional goal(s) and policy area(s)	Related to another policy area
105	Housing Choice Voucher use in areas with historically fewer HCV households (five-year lookback average)	Met Council measure	Housing	
106	Number or share of project-based vouchers awarded with 3+ bedrooms	Met Council measure	Housing	
107	Number or share of project-based vouchers awarded with supportive service components	Met Council measure	Housing	
108	Housing Choice Voucher households in Opportunity Areas	Met Council measure	Housing	
109	Share of LCA funding going to housing units with "priority characteristics"	Met Council measure	Housing	
110	Rate of homeownership (per 100,000 households) by demographic groups	Regional indicator	Housing	
111	Regional homeownership rate	Regional indicator	Housing	
112	Ratio of the share of total home values owned by a racial or ethnic group to the share of households of the same group	Regional indicator	Housing	
113	Residential vacancy rates by building class	Regional indicator	Housing	
114	Average length of time (days) between initial inspection fail and pass for new HCV units	Met Council measure	Housing	
115	Average repair time for tenant-requested work orders in Met Council-owned housing	Met Council measure	Housing	
116	Share of region's housing stock in Flood Impact Zones	Regional indicator	Housing	Land use
117	Total annual greenhouse gas emissions from the residential sector (metric tons of CO2)	Regional indicator	Housing	
118	Inequities in regional parks and trails visitation, by age, race/ethnicity, gender, and income level	Regional measure	Regional parks and trails	
119	Demographics of paid staff and volunteers at Parks Agencies more closely reflect those of the region	Regional measure	Regional parks and trails	

Reference number	Measure description	Type of measure	Regional goal(s) and policy area(s)	Related to another policy area
120	Net change in park acreage and trail mileage in the regional system	Regional measure	Regional parks and trails	
121	Annual funding gap for operations and maintenance	Regional indicator	Regional parks and trails	
122	Number of regional trail miles funded by Active Transportation grants	Met Council measure	Regional parks and trails	Transportation
123	Number of lakes in the Regional Parks and Trails System delisted from the impaired waters list	Regional indicator	Regional parks and trails	Water
124	Number of water bodies in the Regional Parks and Trails System that are regularly monitored for water quality	Regional measure	Regional parks and trails	Water
125	Miles of natural and protected shoreline in the Regional Parks and Trails System	Regional measure	Regional parks and trails	Water
126	Percent of reclaimed water used for our wastewater operations out of total water used	Met Council measure	Water	
127	Percent of energy that is recovered or renewable across the regional wastewater system	Met Council measure	Water	
128	Percent acres of native plantings increases at ES managed properties	Met Council measure	Water	
129	Inventory of greenhouse gas emissions related to the Met Council's operations	Met Council measure	Water	
130	Energy cost and purchased energy amount by Environmental Services	Met Council measure	Water	
131	Number of delisted impairments for Priority Waters	Regional indicator	Water	
132	Percent of Priority Waters monitored by any organization	Regional measure	Water	
133	Percent of Priority Waters monitored by ES within a cycle for water quality	Regional measure	Water	

Reference number	Measure description	Type of measure	Regional goal(s) and policy area(s)	Related to another policy area
134	Number of organizations and cooperators for the Watershed Outlet Monitoring Program (WOMP)	Regional measure	Water	
135	Number of organizations and volunteers for Community Assisted Monitoring Program (CAMP)	Regional measure	Water	
136	Number of Priority Waters assessed for status or trends	Met Council measure	Water	
137	Salt applied in the metro (per inch of precipitation)	Regional indicator	Water	
138	Salt applied on Met Council's ES sites (per inch of precipitation)	Met Council measure	Water	
139	Number/location of properties repaired/rehabilitation with private property Inflow and Infiltration grant program funds	Met Council measure	Water	
140	Share of Environmental Justice census tracts that received Inflow and Infiltration grant funding	Met Council measure	Water	
141	Estimated water saved by the Water Efficiency grant program	Met Council measure	Water	
142	Number of households served by the Water Efficiency grant program	Met Council measure	Water	
143	Grant Program Outputs (Water Efficiency) - Number and percent of municipalities served by a municipal community public water supply system receiving funds	Met Council measure	Water	
144	Share of Environmental Justice census tracts that received Water Efficiency grant program funding	Met Council measure	Water	
145	Percent of interceptor system inspected per year	Met Council measure	Water	
146	Percent of interceptor system at each condition status	Met Council measure	Water	
147	Percent of interceptor system that has been rehabilitated	Met Council measure	Water	

Reference number	Measure description	Type of measure	Regional goal(s) and policy area(s)	Related to another policy area
148	Wastewater Conveyance System Health Measure - Percent of dollars spent on operations and maintenance, system expansion, regulatory, and rehabilitation for interceptors	Met Council measure	Water	
149	Resource Recovery Facility Health Measure - Percent of dollars spent on operations and maintenance, system expansion, regulatory, and rehabilitation for plants compared to industry standards	Met Council measure	Water	
150	Total water use per person per day	Regional indicator	Water	
151	Residential water use per person per day	Regional indicator	Water	
152	Volume of outdoor water use declines	Regional indicator	Water	
153	Annual number of Environmental Service outreach engagements region-wide	Met Council measure	Water	
154	Annual number of Environmental Service contact points region-wide	Met Council measure	Water	
155	Coverage of the region engaged through Environmental Service outreach efforts	Met Council measure	Water	
156	Grant Program Outputs (MNTAP partnership) - volume of water saved from intern projects	Met Council measure	Water	
157	Number of lawn leaders trained through University of Minnesota Turfgrass Partnership	Met Council measure	Water	
158	Grant Program Outputs (University of Minnesota Turfgrass Partnership) - Attendance at annual events	Met Council measure	Water	
159	Total amount of drought tolerant, low mow seed mixture sales through UofM Turfgrass Partnership	Met Council measure	Water	
160	Number of licensed wastewater and water utility operators in the region	Regional indicator	Water	

Reference number	Measure description	Type of measure	Regional goal(s) and policy area(s)	Related to another policy area
161	Annual enrollment for operators at each of the technical colleges and/or apprenticeship programs in the state	Regional indicator	Water	
162	Number of engagements with community organizations that work with job seekers in targeted demographics	Met Council measure	Water	
163	Every year ES sees positive movement towards reflecting the diversity of the communities we serve (demographically)	Met Council measure	Water	
164	Share of region's workforce employed by small businesses	Regional indicator	Dynamic and resilient	
165	Share of region's households experiencing energy cost-burden	Regional indicator	Climate change; Dynamic and resilient; Equitable and inclusive	
166	Share of municipal solid waste (MSW) recycled (including reuse, recycling and organics)	Regional indicator	Climate change	