

Indicator	Unit of Measurement	Target	Method of Measurement	Data Source	Why is this Important?	Source Principle Heading
Poverty	percentage of people living in poverty			Census	this is a reflection of the percentage of people in the region living without the bare minimum of economic security and sufficient. Those who cannot afford food or shelter certainly cannot afford higher education, computers, etc. And health suffers from lack of access to healthcare and poor nutrition, so this is an indicator of future health.	Economy: Regional Goals
Cost of Living	the difference between cost of basic needs and annual incomes		Cost of living: measure how much it costs to buy the fundamental things, then compare these costs with total unemployed, plus all marginally attached workers, plus total employed part time for economic reasons as a	Census, ACCRA Cost of Living Index	As a society, we need to be able to afford to plan for the long term, to invest in education, to protect our lands, and to help our neighbors. If people are having a hard time just getting by, it's harder to build the political will for these other critical long-term investments	Economy: Regional Goals
Unemployment	unemployment rate			BLS	Like poverty; consistently higher unemployment could translate to higher poverty levels in a future indicator report	Economy: Regional Goals
Wages	Average and median wages, adjusted for inflation		"Average Income", "Median Income"	Census	Wages are connected to other opportunities. With higher wages, we can invest in new business opportunities, better health insurance, and better homes, and afford to invest in self-development	Economy: Regional Goals
Per Capita Personal Income	per capita personal income	Maine's national rank among the 50 states on per capita personal income will	income received from all sources, divided by the state's population	census	Increasing personal income continues to be a fundamental to a high QOL for Maine people and is a reflection of economic growth and prosperity. Higher incomes stimulate consumer spending, create greater savings, and can lower	Economy: Prosperity
Housing	home ownership and rental affordability for low-income people		consider a typical lower-income family of four and calculate the % difference between value added in	US. Dept of Housing and Urban Development	Housing is a basic human need, struggling creates stress, and so this links to well-being and society.	Economy: Regional Goals
Gross Domestic Product	GDP	Maine's GDP growth will outpace New England and the U.S.	production by labor and property located in a state. Sum of value added in all industry sectors	Bureau of Economic Analysis	It is a fundamental measure of economic health and the primary determinant of the extent to which an economy is growing or in a recession	Economy: Prosperity
Employment	total number of jobs	Employment measured by the total number of jobs will increase each year				Economy: Prosperity
Research and Development Expenditures	R&D spending as a % of GDP	Total R&D spending as a percent of GDP in Maine will increase to 3% by 2015			The 3% is the benchmark the Growth Council considers the investment necessary to expand Maine's innovation-driven economy and increase competitiveness with the U.S.. This is also the goal set by the Maine Innovation Economic Advisory Board in the state's 2010 Science and Technology Action Plan. A growing R&D sector in MAine creates wide-ranging economic benefits, chief among them better jobs and increased government revenues. R&D performance is a key measure for gauging Maine's competitiveness in the new knowledge economy.	Business Innovation
New Business Starts	percent of individuals ages 20-64 who start a new business in a month that did not own a business the previous month	Entrepreneurial activity in Maine will be greater than entrepreneurial activity in New England		Department of Labor	An important subset of new business activity is microbusiness	Business Innovation
Manufacturing Productivity	value added per manufacturing worker	The value added per manufacturing worker in Maine will increase to within 15% of the value added per manufacturing worker in the U.S. by 2015	productivity is calculated by dividing the total number of manufacturing employees into the value added by the manufacturing sector in Maine.	Bureau of Economic Analysis	In order for Maine manufacturers to remain competitive, they must improve their productivity relative to the rest of the nation. If they do not, they will lose business to those companies that can, with serious implications for the Maine economy. Improvements in productivity come about from capital improvements and investments in worker training and education that add value to the product.	Business Innovation
Number of hours of paid employment at the average wage required to support basic needs	hours, average wage, basic job calculation				As opposed to typical use of Median income Per capita income relative to the U.S. average, what wage can buy Defines basic needs in terms of sustainable consumption	Economic Indicator
Diversity and vitality of local job base	Number and variability of local job base, number and variability in size of companies, number and variability of industry types, variability of skill levels required for jobs				As opposed to typical indicator of Unemployment rate/Number of companies/Number of jobs, Resilience of the job market Ability of the job market to be flexible in times of economic change	Economic Indicator

Wages paid in the local economy that are spent in the local economy	Dollars spent in the local economy which pay for local labor and local natural resources; Percent of local economy based on renewable local resources					This presents a picture of local financial resilience, as opposed to traditional measure of size of the economy as measured by GNP and GDP	Economic Indicator
Tourism and Hospitality	economic impact of the tourism industry		number of visitors to Dubuque, how much in taxes and direct spending visitors generate, and how many jobs are sustained by the industry	Bureau of Labor Statistics, 8 major SIC codes for Tourism: general merchandise stores, food stores, apparel and accessories, eating and drinking places, misc. retail, hotels and other lodging places, amusement and recreation services, and arts and cultural facilities		barometer of the image and attractiveness of the community; contribute to negative impacts of traffic congestion; measure of dependence of city on the economic activity generated by tourism	Business
Employment and workforce wages	1. number of jobs and percentage of people employed in each major industry. 2. \$ of payroll per industry in a year, percentage of total it represents.		total, compare-- see data source	BLS, NAICS or SIC codes		"Diversity in our economy, as well as economic trends that may be occurring in our region, are important because heavy reliance on a single industry, such as tourism, puts a community in a vulnerable position."	Employment
Workforce Housing/ Housing Affordability Gap	Median income and what percentage of income would be needed in order to buy or rent an average-priced house		homeownership figures assume a 5% down payment, a 30-year fixed-rate mortgage at 6%, private mortgage insurance costs of \$55 per month, \$180 in	Census		It is important to have affordable housing to support our core service employees as well as to strengthen our year-round economy. Ensuring that housing is both affordable and available for our younger residents and their families to buy or rent helps ensure a stable workforce for the Cape's year-round industries.	Housing
GOAL: Create 25,000 Clean Tech jobs as the World Center of Clean Tech Innovation						Clean Tech innovations will harness the power of renewable energy sources, manage natural resources more efficiently, and reduce the environmental impacts of human activity while meeting the promise of economic prosperity for the region.	Goal 1: Clean Tech Jobs
Number of clean tech jobs		25,000 in 2022					Clean Tech Jobs
Dollars of cumulative venture capital investments locally		\$25 Billion in 2022					Clean Tech Jobs
Number of clean tech-ready workers trained		2,000 in 2022					Clean Tech Jobs
Number of companies locating/expanding in San Jose		250 in 2022					Clean Tech Jobs
% of total economic activity/output by business sector	Measured by % of total wages	No single sector greater than 25% of total economic output; top 3 shall not be greater than 50% of total output					Economic Development - System Level
Business reinvestment in the community		Increasing Percent					Economic Development - System Level
Quality Jobs: # of net new jobs created that pay greater or equal to the cost of living index as a percent of total new jobs created		Upward Trend					Economic Development - System Level
Income Disparity: Percent of households earning less than \$25,000/year		no target					Economic Development - System Level
Income Disparity: Percent of households earning more than \$100,000/year		no target					Economic Development - System Level
% of residents who work more than 40 hours per week in order to meet their basic needs		Downward trend					Human Dignity - System Level
Total production value of agriculture		Economically viable for owners and laborers				A sustainable state is one where agriculture is economically viable for both owners and laborers, and agricultural practices conserve natural resources and biodiversity, maintain healthy soils and ecosystems, and provide food security for local communities.	Agriculture
Total acreage of agriculture		Ensure local food security					Agriculture
Percent of residents in poverty, # of households in poverty						A sustainable state is one where all community members share in the benefits of economic development and income growth and the number of households living in poverty continues to decline over time.	Economy: Income Distribution and Poverty
Median household income compared to the state							Economy: Income Distribution and Poverty

The Gini coefficient of income inequality (100 = unequal, 0= equal)		Downward trend				Economy: Income Distribution and Poverty
Unemployment rate - over time and compared to neighboring cities/counties		"low"			In a sustainable state the unemployment rate is low, jobs are available to fit the skills and experience of workers in the community, and the unemployed have access to training and other resources to help them find employment.	Economy: Unemployment
Gross Regional Product (GRP)	Total, per capita, per worker, compound annual growth rate		A description of the Methodology for Estimating Gross Regional Product can be found in Appendix C of <a href="http://www.bayareacouncil.org/pubs/ecp/ecp_mid.html">http://www.bayareacouncil.org/pubs/ecp/ecp_mid.html</a> .	Bay Area Economic Forum; Bay Area Council's Bay Area Economic Profile		Sustainable Economy
Genuine Progress Indicator (GPI)	Total, per capita, ratio of GPI to GRP		To see the methodology used to calculate the Bay Area's GPI, visit <a href="http://www.regionalprogress.org/methodology_ca_bayarea.html">http://www.regionalprogress.org/methodology_ca_bayarea.html</a> .	Redefining Progress	The Genuine Progress Indicator (GPI) measures economic well-being and was developed to address some of the major shortcomings of Gross Domestic Product (GDP) and its regional corollary, Gross Regional Product (GRP). GPI, by contrast, classifies expenditures of time and money as positive or negative in order to estimate economic well-being. Housework and volunteer work contribute positively to the GPI, while environmental degradation, income inequality and social breakdown reduce the GPI's total value. By necessity, these adjustments to GDP require value judgments, and economists continue to debate their appropriateness. GPI makes reasonable estimates, acknowledging that there is still room for progress.	Sustainable Economy
Income Distribution	Gini coefficient			State of CA Franchise Tax Board; Gini Coefficient calculated by John Meng, a senior conservation fellow and analyst with the Sierra Club	The international standard statistical formula for measuring income distribution is the Gini coefficient, which can vary from about .20 for a relatively even distribution of income to about .60 where income is concentrated in the hands of a few. The Gini coefficient for the U.S. is about 0.40, for Western Europe generally about 0.30, and for Japan about 0.35. Level of income is also important, and can be measured by the proportion of households at different income levels.	Sustainable Economy
Median Family Income	over time; adjusted for inflation			Census; consumer price index	Median income is an indicator for personal prosperity and for the local economy as a whole. Median income is that earned by the middle family or household, that is, the amount at which half of all families or households earn more and half earn less. The U.S. Census reports both family and household income. In addition to families, households include single person households and households with unrelated individuals. Non-family households tend to be smaller in size and to have lower income than family households. Given the broader scope of household income, we choose to focus on that.	Sustainable Economy
Personal Income	Per capita: over time; adjusted for inflation			Bureau of Economic Analysis; consumer price index	Personal income is one of the most basic measures of the health of the local economy. Individuals use their personal income to purchase items to meet family needs, and, in doing so, help fuel sectors of the local economy, from housing to durable goods. Per capita estimates reflect the total amount of personal income averaged across the population. Since inflation erodes purchasing power, per capita income estimates below have been adjusted according to the Consumer Price Index.	Sustainable Economy
Living Wage Income	Percentage of the top 10 jobs with greatest projected growth that pay the hourly self-sufficiency wage for a single wage earner with two school-age children.			Employment Development Department; Occupational Employment & Wage data, self-sufficiency data from the CA for economic self-sufficiency project	A living wage is defined as the amount of income required for a family to reach self sufficiency, that is, to meet its basic needs without public or private assistance. The issue of self-sufficiency has taken on a new sense of urgency in recent years, as more people move from welfare to work. The costs of housing and health care have added to this urgency. Attention has therefore turned to living wages.	Sustainable Economy
Unemployment rate				CA employment development department; labor information division	Unemployment rates are a key indicator of the health of local economies. They reflect the ability of employers to supply the numbers and types of jobs needed by the labor force, and the ability of the labor force to provide skills and availability needed by employers.	Sustainable Economy
Poverty	Number and % of people below federally established poverty level; broken down by age: children, adults, seniors			US Census Bureau	Children and adults living in poverty experience more social problems than persons living in economically secure environments. Poverty is correlated with unemployment and low wages, inadequate or unaffordable housing, poor health, inadequate access to medical and social services, lower quality schools, low educational attainment, depression and other mental health problems, and victimization by crime.	Sustainable Economy
Unemployment Rate	as reported in the sustainable economy section					Neighborhood Integrity
Number of enterprises adopting ISO 14000 standards		Up				Economy and Economic Development

Number of neighborhoods with unemployment rates higher than the government-defined "full employment" rate		Down				Economy and Economic Development
Difference between the highest neighborhood unemployment rate and the full employment rate		Down				Economy and Economic Development
Mean income level of people in historically disadvantaged communities		Up				Environmental Justice
Number of service providers and companies on the City's Green Vendors list		Up				Municipal Expenditures
Business License Revenue					This is an indicator of business activity in the City.	Business License Revenue
Estimated unemployment rate					The estimated unemployment rate and labor force size for those living in Rocklin are indicators of community economic health.	Unemployment and Labor Force
Business Climate	Cost of doing business, number of colleges, cost of living, crime rate, culture and leisure amenities, educational attainment, income growth, job growth, and net migration			Forbes magazine's "2010 Best Places for Business" regional rankings	A region's business climate reflects its attractiveness as a location, the availability of business support and resources, opportunities for growth, and barriers to doing business. Since businesses provide jobs, sales tax revenue, economic growth, and entrepreneurship opportunities, a strong business climate is important for maintaining Orange County's economic health and quality of life.	Economic and Business Climate
Tourism-Related Spending and Jobs	Tourism-related tax receipts, Number of jobs in tourism sector			California Division of Tourism, California Travel Impacts by County, Dean Runyan Associates ( <a href="http://tourism.visitcalifornia.com">http://tourism.visitcalifornia.com</a> ) and California Employment Development Department	Visitors traveling to Orange County for recreation and business generate revenue and jobs for the local economy. Tourism is one of the leading industries in Orange County, accounting for 10% of the county's employment	Economic and Business Climate
World Trade	Total value of exports			Source: California State University, Fullerton, Institute for Economic and Environmental Studies	The ability to access foreign markets is important for a strong and growing local economy.	Economic and Business Climate
Per Capita Income				Source: U.S. Bureau of Economic Analysis ( <a href="http://www.bea.gov">www.bea.gov</a> )	A high per capita income for county residents is crucial in the context of the county's high housing costs. In addition, a higher relative per capita income signals greater discretionary income for the purchase of goods and services.	Economic and Business Climate
Employment by Industry Clusters	Employment and salaries in 10 major Orange County industry clusters. The clusters were chosen to reflect the diversity of Orange County employment, major economic drivers within the county, and important industry sectors for workforce development.			Source: Orange County Business Council analysis of data from the California Employment Development Department	Employment change within specific clusters illustrates how Orange County's economy is evolving. Tracking salary levels by cluster shows whether these jobs can provide a wage high enough for workers to afford to live in Orange County.	Economic and Business Climate
High-Tech Growth and Diversity	Number of high-tech industries with an employment concentration above the national average; high-tech GDP			Milken Institute ( <a href="http://www.milkeninstitute.org">www.milkeninstitute.org</a> )	High-tech industries provide strong economic growth potential and higher than average wages.	Technology and Innovation
Venture Capital and Patent Grants	Venture capital investment, # of patent grants awarded per 10,000 residents			United States Patent Office ( <a href="http://www.uspto.gov">www.uspto.gov</a> ) and PricewaterhouseCoopers/Thomson Venture Reuters/NVCA Moneytree Venture Capital Profiles ( <a href="http://vx.thomsonib.com/VxComponent/static/stats/2010q2/metro_2112.html">http://vx.thomsonib.com/VxComponent/static/stats/2010q2/metro_2112.html</a> )	Innovation and the development of new technology are critical for a regional economy's long-term viability.	Technology and Innovation

Green Jobs	Percent of green job growth compared to overall growth;			Source: Green Establishment Database, January 2011. Analyzed by Collaborative Economics and presented in the Next10 report "Many Shades of Green: Regional Distribution and Trends in California's Green Economy, 2011" ( <a href="http://www.next10.org/next10/publications/green_jobs/2011.html">www.next10.org/next10/publications/green_jobs/2011.html</a> )	Jobs related to using alternative energy, conserving natural resources, and reducing pollution have increasing economic and environmental value. Growth in green industries supports economic resiliency, environmental health, and national security.	Environment
Gross Metro Product (GMP)						County Profile
Educational Attainment	Four-year dropout rate for grades 9-12; Percent Over Age 25 Earning a High School Diploma/GED or Higher and Bachelor's Degree or Higher; Racial/Ethnic composition of grades 9-12 enrollment and one-year dropout population			American Community Survey for Percent over 25; Source: California Department of Education, DataQuest ( <a href="http://data1.cde.ca.gov/dataquest/">http://data1.cde.ca.gov/dataquest/</a> ) for the other two	A high school diploma or college degree opens many career opportunities that are closed to those without these achievements. Additionally, the education level of residents is evidence of the quality and diversity of our labor pool – an important factor for businesses looking to locate or expand in the region.	Education
Career Preparation	Colleges: Technical Skill Attainment rate (earning a "C" or better), Completion Rate (receiving a credential), placement rate. High school: High school graduation rate, Placement in military, school or job, Job related to studies			Source: California Community Colleges, Chancellor's Office, Vocational Education ( <a href="https://misweb.cccco.edu/perkins/main.aspx">https://misweb.cccco.edu/perkins/main.aspx</a> )	This indicator enables the community to assess the ability of Career Technical Education (CTE) providers to supply the local economy with a diverse and appropriately-trained labor force.	Education
Nonprofits	Number of Nonprofit Organizations; Total Reported Annual Revenue and Assets and per capita; % change in Grant-Driven Nonprofit Budgets				A well-funded and supported nonprofit sector is an integral part of a healthy and stable community. Nonprofit service organizations help bridge the gap between government programs and local needs, and are a valuable contributor to the economy.	Civic Engagement
Action: Low-Income Neighborhoods - Green Jobs		Adopt a policy or implement a program that creates environmentally beneficial jobs in slums and/or low-income neighborhoods				Urban Design
Employment	Percent change in wages and number of jobs; unemployment rate			Source: California Employment Development Department	The number, types and wage level of employment in large part determine our region's economic activities and well-being. Income generated through employment accounts for about 70 percent of the total personal income in the region. <sup>1</sup>	The Economy
Unemployment	Unemployment rate			Source: California Employment Development Department	Unemployment significantly impacts the economic and social well-being of individuals and families.	The Economy
Employment	Real average wage per job			Source: U.S. Bureau of Economic Analysis and Employment Development Department Quarterly Census of Employment and Wages	The average wage per job provides an indication of the overall quality of jobs available in the region. Higher average wage per job contributes to higher per capita income.	The Economy
Income	real personal income per capita			Source: U.S. Bureau of Economic Analysis	Real personal income per capita (with inflation adjustment) is one of the most important indicators of economic well-being. An increase in real per capita income is generally associated with improving social and economic indicators such as reduced poverty and an increase in educational attainment.	The Economy

Income	Median household income			Source: U.S. Census Bureau, Current Population Survey (for U.S. only), 2000 Census, 2005 and 2006 American Community Survey	Median household income reflects the well-being of households that are in the median position – their incomes are higher than half of the total households but lower than the other half.	The Economy
Income	Total personal income			-	Total personal income provides an indication of an area's consumption capacity as well as the strength of its economy.	The Economy
Poverty	Persons living in poverty, also children, and by race/ethnicity			Source: U.S. Census Bureau, Current Population Survey (for U.S. only), 2000 Census, 2005 and 2006 American Community Survey	Poverty not only results in current economic hardship, but also limits an individual's and family's future development opportunities. A higher poverty rate is both a cause, as well as an outcome, of lower educational attainment and higher unemployment rates.	The Economy
Taxable Sales	Percent change in taxable sales			Source: California State Board of Equalization	Taxable sales provide important revenue sources for state and local governments and special districts. While employment and income are measures on the production side, taxable sales measures the level of consumption activities.	The Economy
job creation	% of new green technology jobs out of the total number of new technology jobs					Green Jobs
employment and wages	% of person employed out of the total working age population					Focus on Economic Prosperity
retail sales	Retail sales in hundred of thousands			Source(s): California Retail Sales Survey, The Eureka Group, Pollock Pines, CA (proprietary) CA Labor Market Information,	Retail sales generate taxes that are the primary revenue for local police, fire, roads and other infrastructure. Changes in retail sales are also important to show growth or decline in the business community.	Economy & Infrastructure
business/industry diversity	# of jobs per sector, grouped into good producing, services producing, and government; employers with over 100 employees				The diversity and balance of industry sectors has a significant impact on the overall economic health of a region.	Economy & Infrastructure
income & employment	per capita income, wealth index in \$ per capita, annual average unemployment rate			Source: BEA, Source(s) Labor Market Information Division, CA State Employment Development Department	Personal income is a basic measure of the local economy's health. Individuals use their personal income to meet family needs, thus helping to fuel all sectors of the local economy.	Economy & Infrastructure
tourism	total visitor spending, Transient occupancy taxes (TOT), and # of FTE jobs generated by travel spending			Source(s): California Travel Impacts by County, 1992-2006	The local economy is dependent upon a strong and vibrant tourism industry.	Economy & Infrastructure
Financial Support for the arts	(1) Number and amount of local foundation grants, (2) private donations to arts councils in \$ per capita, and (3) visitor spending impact on the arts, entertainment and recreation			various	A well-supported and vibrant arts and culture sector is important for the economic well-being of the county for many reasons. It provides the opportunity for civic leaders to enhance economic development.	Arts & Heritage
arts education	State funding received by k-8 schools for visual and performing arts; percent of total students in public school bands (grades 5-8, 9-12)			Source: agency contact	High quality arts instruction in dance, music, theatre, and the visual arts is acknowledged as an essential part of a core curriculum, preparing students for successful careers and lives.	Arts & Heritage
performing arts	Attendance and economic impact of cultural events/facilities				Tuolumne County's performing arts scene enriches lives of residents, contributes jobs, and generates millions of dollars for the local economy.	Arts & Heritage
per capita revenue by nonprofit organizations	Amount of money received by 501©3 nonprofit organizations per capita				Non-profits are a key part of the safety net.	Federal & Nonprofit Spending
labor organizations	% union membership				Membership in unions is one way that individuals can obtain a say in economic and political decisions that affect their lives	Organizational Capacity
Percent of hiring from local job pool				Business Survey		Better Paying Jobs

Percentage of employees with health benefits				Resident survey		Better Paying Jobs
Homeownership rates				US Census Bureau		Better Paying Jobs
Income needed to support basic needs				State Department of Economic Security data on Basic Needs and The University of Arizona College of Business		Better Paying Jobs
Average Earnings in Tucson				UA College of Business and Public Administration, Division of Economic and Business Research. 1997 and 1998 data are forecasts		Better Paying Jobs
Percent of hiring from local job pool				Survey of local businesses		Quality Job training
Income needed to support basic needs				State Department of Economic Security data on Basic Needs and The University of Arizona College of Business		Quality Job training
Percentage of residents who feel they have adequate job training opportunities				Resident survey		Quality Job training
Level of resources devoted to training						Quality Job training
Percent of natural capital that is monetized and formally included in major regional land-use and economic development planning/decisionmaking						Natural capital
Entrepreneurial Spirit as Measured by New Business Starts	Number of new businesses		Compare new businesses to the net number of businesses in the region		This is essential for wealth creation and the long-term health of the economy. This indicator also hopes to measure the innovative ideas and success of the new businesses, since many fail in the first couple of years.	Economic: Prosperity
Percent of Workforce Between 20 and 35 Years of Age	Total number of workers within the age group				Measures how the well the community can attract new technology workers and keep the children in the region after they graduate. This helps the region remain competitive. "This indicator is a measure of what might be called the "vitality" of a community."	Economic: Prosperity
Cumulative percent of students who finish high school and are "work ready" or prepared for higher education						Economic: Prosperity
The Percent of the Eligible Workforce Earning Enough to be Self-Sufficient						Economic: Prosperity
Workforce Participation Rate (Ages 16 to 64)	Percent of those working or looking for work		Measures adult productivity in the region		This indicator is important because it measures if the adults of the community are productive and able to afford the price of living.	Economy
Unemployment Rate	unemployment rate		number of individuals in the community without jobs (out of those who are able to work) in comparison to the entire population (age 16+)		Without jobs, people can not purchase the goods and services in the area that they need.	Economy
Cost of Living	he Cost of living Index (COLI). 100 is the average and a higher score means a higher cost of living.		Compares the price of living to annual incomes		A lower cost of living is the goal so that people are able to purchase the essential goods at a less cost.	Economy
Median Household Income	median household income		The middle value of all household incomes		By definition, half of the residents are above the number and half are below.	Economy
Values of Goods in Billions Exported and Imported	Dollars of goods exported and imported			International Trade Admission and USA Trade Online	Exporting helps the region build a competitive edge while importing helps to increase the choices and opportunities for the residents within the community.	Economy
Gross Domestic Product by Region	GDP		All of the goods and services produced within the region is the Gross Regional Product (GRP)		Helps understand how competitive the region is economically.	Economy
Employment and Poverty						A Vital Community
Affordable Housing						A Vital Community

Growth in Gross State Product	Gross State Product		Measures overall economic production.		Provides more/better jobs and can result in an improvement of living standards.	Economy
Employment of Working-age Population	Percent					Economy
Energy Efficiency of the Economy	BTUs/Percent		An increase in BTUs means that the economy is using more energy-efficient production		Helps the economy become less industrial and more service-based, which uses less energy and saves money.	Economy
Poverty						Material Well-Being
Country Gross Domestic Product						Material Well-Being
Public funding of arts and sports						Cultural Vitality
Income below 200% poverty level						Income and Poverty
Earned Income Tax Credit (EITC)						Income and Poverty
Median Household income						Income and Poverty
Reduced price school lunch program						Income and Poverty
Personal Income by Source						Income and Poverty
Unemployment Rate						Employment
Employment by Industry						Employment
Labor Force Participation Rate						Employment
Federal Funds				<b>U.S. Census Bureau's Consolidated Federal Funds Report</b>		Government
Poverty Rate				US Census		Social Topics
Unemployment Rate						Economy
Debt Service Ratio			Debt service expenditure as percent of a municipality's own source revenue			City Services: Finance
Tax collected as percentage of total tax billed						City Services: Finance
own-source revenue as percentage of total expenditure						City Services: Finance
Capital spending as percentage of total expenditures						City Services: Finance
Sustainable Management of the Local Authority and Local Enterprises: <b>Percentage of environmental certifications on total enterprises</b>						
Products Promoting Sustainability: <b>Percentage of People Buying Sustainable Products</b>						





## Smart Energy Use

Indicator	Unit of Measurement	Target
Energy Use	Electrical energy use per person per year (kWh/capita)	
Energy Supply and Use, Resource Use	MegaWatts	
Eco-Efficiency	Hydropower and renewable energy	
Total Primary Energy Supply per Person, and fuel type	Gigajoules per person	
Energy Intensity of the Economy	Comparison of real GDP and Total Consumer Energy	
Percentage of Electricity Generated from Renewable Resources	Percentage of electricity generated from renewable sources	
Household expenditure on energy use in the home by income group	Proportion of household expenditure on energy	
Energy Dependency	Net Energy Import Dependency (net energy imports to total primary energy supply)	

Energy Related Greenhouse Gas Emissions	Teragrams CO2	
% ICI Floor Area retrofitted/year		
Renewable Energy ACTION: Increase the use of renewable energy to meet 10% of the City's peak electric load by 2012.		31 MW
Percent of citywide renewable energy use		
MWh total of citywide renewable energy use		
Percent of customer load on green power		
Running total number of green power customers		
kW photo voltaic (PV) installations citywide		
Number of PV installations citywide		
Number of PV installations at City facilities		
Number of City facilities with green power subscriptions		

Energy Efficiency ACTION: Reduce the City's peak electric load 10% by 2012		289 MW
MWh of total citywide energy use		
MWh of energy use by the municipal sector		
MWh of energy use by the residential sector		
MWh of energy use by the commercial sector		
MWh energy savings from residential energy efficiency and demand reduction		
MWh peak energy reduction from residential energy efficiency and demand reduction		
MWh energy savings from commercial energy efficiency and demand reduction		
MWh peak energy reduction from commercial energy efficiency and demand reduction		
MWh energy savings from municipal energy efficiency and demand reduction		

MWh peak energy reduction from municipal energy efficiency and demand reduction		
MWh total energy savings from efficiency programs from all sectors		
MW total peak load reduction from all sectors		
Decatherms of residential natural gas consumption		
Decatherms of non-residential natural gas consumption		
Climate Change ACTION: Reduce greenhouse gas emissions 25% by 2030.		717,867 metric tons CO 2 (Emissions from total City power supply)
Metric tons of CO2 emissions per capita		
Metric tons of CO2 emissions citywide		
Metric tons of CO2 emissions from the total City power supply		
Metric tons of CO2 emissions from land use		

Metric tons of CO2 emissions from transportation		
Metric tons of CO2 emissions from waste processing		
Metric tons of CO2 emissions from municipal facilities and operations		
Metric tons of CO2 emissions from City fleet		
GOAL: Reduce per capita energy use by 50 percent		
Per capita energy use (electricity and natural gas)		50% Reduction by 2022
Municipal energy use (electricity and natural gas)		50% Reduction by 2022
GOAL: Receive 100 percent of our electrical power from clean renewable sources		
Renewable Energy Generation		100%

Solar Energy in San Jose		TBD
Number of Solar Roofs (4kW/Roof)		100,000 "Roofs"
Citywide energy use	Total, per capita, per sector	TBD
Percent of citywide energy from renewable energy and more efficient sources		25% by 2010
Amount of renewable energy use	Total, per sector	

Amount of renewable energy use from local sources "clean distributed generation sources"	Total, per sector	1% of all electricity by 2010
Resource Efficiency of Local Businesses: Ratio of energy use to total economic activity by business sector		Downward trend
Total energy use (except for transportation)	BTUs	Energy Strategy 2012 sets goal of 25% reduction from 2005 levels
Per capita total energy use, incl. natural gas vs. electricity		Downward trend
Energy supply mix of largest electricity provider (PG&E)		Cleaner
Amount of solar generating capacity installed	kilowatts	

Energy Use	Total amount of electricity, natural gas, and gasoline used (by both residential and non-residential customers); total energy use per capita	
Energy Use	Total electricity, natural gas, gasoline, and diesel in BTUs and per capita	
Ratio of renewable to non-renewable energy consumption		Up
Energy cost per tax dollar		Down



Renewable Energy	Percent of Electricity Generated from Renewable Sources; Kilowatts per 100,000 Residents of grid-connected solar installations	The state's investor-owned utilities are required to increase procurement from eligible renewable sources to 33% by the end of 2020.
Action: Renewable Energy		Increase the use of renewable energy to meet ten percent of the city's peak electric load within seven years.
Action: Energy Efficiency - Reduce energy consumption		Reduce the city's peak electric load by ten percent within seven years through
Energy	Percent of energy that is fossil-fuel based; Percent of energy that comes from outside CA; per capita energy consumption; per capita greenhouse gas emissions	

renewable energy	Percent of total electricity supply generated from renewable resources	
residential energy consumption	Total residential electricity use per capita per day	
renewable energy	Megawatt hours produced by biomass, hydroelectric, solar, and wind	
Net Generation of Electric Power	Thousands of Megawatthours	
Percent of Electric Power Generated From Renewable Sources	Percent of power Generated	

Retail sales of Electricity per Population	total sales( Thousand MWh)	
Energy Conservation	Annual Enrgy Use( kWh) per square foot of county buildings	
Percentage of energy consumed that is produced from local sustainable sources such as renewables ,hydro etc		
Growth of installations of sustainable distributed electrical generation		
Percent reduction in identified toxics from local energy production		
Percent of energy-efficient vehicles (e.g. >30 MPG)		
Percent of local air pollution coming from energy production		
Regional Local Sources Pollution Index; potentially comprised of air emissions from energy use, water pollution from energy use, etc. in ratio to population and/or economic output		
Percent households requiring home energy financial assistance		

Rebates given for energy efficient investments		
Residential energy charges per square foot (real dollars)		
Number of residents spending more than 10Percent of total expenditures on home and mobility energy and water (alternative: energy use per square foot by lowest income (bottom fifth) consumers)		
# of buildings achieving high ratings for energy warming and cooling efficiency and lighting efficiency		
Energy use per household		
Economic output per energy unit (BTU) consumption		
Motor fuel consumption per capita		
Percent of local energy production meeting sustainability criteria (e.g.renewable fuels from sustainable sources) (FtC		
Percent of excess local power exported to other areas		

Reduction in carbon / GHG intensity of local energy use		
Reduction in carbon / GHG intensity of local energy production		
Percent of motor fuels consumed originating beyond US borders		
Percent of electricity consumed from non-nuclear sources		
Percent reduction in energy-related releases of ozone-layer damaging substances		
Reduction of "Nox" and "Sox" and mercury etc. pollutants leaving the region		
Commercial and Industrial Building Energy Consumption	Energy consumption measured by Kilo British Thermal Units (KBTU) per year. Natural gas consumption measured in therms per year.	
Total CO2 Emissions	Measures greenhouse gas (GHG) by million metric tons of carbon dioxide equivalents per year	

Renewable Energy		
Energy Use Per Person	BTUs	
Solid Waste		
Percentage of City population with authorized electrical service		
Total electrical use per capita	Kilowatt/hour	
total residential electrical use per capita		
Reduce total energy use per capita		

decrease energy used per dollar output from industry		
Increase proportion of bridging fuels ( natural gas) and renewable fuels(wind ,solar and biofuels)		
reduce fleet average and new vehicle average fuel consumption		
Reduce Number of households complaining of noise		
Annual consumption of fuel and energy per inhabitant	GJ/capita/year	
Annual electricity consumption per capita	kWh/capita/year	

Method of Measurement	Data Source
Combine data from all regional utilities, together with data on mobility-related fuel use, to get an overall energy consumption measure. Then look at what % of	power companies
Electricity consumption by customer class, Transportation, heating fuels and energy efficiency of each	















Electricity: PG&E,  
Gasoline: Office of  
Transportation  
Economics, Natural  
Gas: CA energy  
commission


Source: Energy  
Information  
Administration, State  
Energy Data 2004



	Source: agency contact
Amount of power generated from each source was measured(Hydroelectric,Coal,Natural Gas,Nuclear,Petroleum,Pumped Storage,Other renewables)	
Measured percent of electric power generated in Arizona by renewable sources,Percent by source and percent of power generated by solar and wind energy	











Why is this important?	Source Principle Heading	Indicator Source
Consumption of fossil fuels is the prime culprit in global warming, and regionally PA accounts for 1% of the world's CO2 emissions (!) Dependence on fossil fuel makes PA less resilient and perhaps even	Nature: Regional Goals	Sustainable Pittsburgh
Sustainable energy future enhances environmental quality, restores ecosystem function, and improves public health while fueling economic growth in sustainable directions.	Energy	SustainCapeCod.org
	Social and Institutional Capacity	2005 Environmental Sustainability Index Report
	Energy	Ministry of Economic Development
	Energy	Ministry of Economic Development
	Energy	Ministry of Economic Development
	Energy	Statistics New Zealand
	Energy	Ministry of Economic Development







	Energy - Energy Efficiency	Green City Indicator Report 2010 Pasadena
	Energy - Energy Efficiency	Green City Indicator Report 2010 Pasadena
	Energy - Energy Efficiency	Green City Indicator Report 2010 Pasadena
	Energy - Energy Efficiency	Green City Indicator Report 2010 Pasadena
	Energy - Energy Efficiency	Green City Indicator Report 2010 Pasadena
	Energy	Green City Indicator Report 2010 Pasadena
	Energy - Climate Change	Green City Indicator Report 2010 Pasadena
	Energy - Climate Change	Green City Indicator Report 2010 Pasadena
	Energy - Climate Change	Green City Indicator Report 2010 Pasadena
	Energy - Climate Change	Green City Indicator Report 2010 Pasadena

	Energy - Climate Change	Green City Indicator Report 2010 Pasadena
	Energy - Climate Change	Green City Indicator Report 2010 Pasadena
	Energy - Climate Change	Green City Indicator Report 2010 Pasadena
	Energy - Climate Change	Green City Indicator Report 2010 Pasadena
	Goal 2: Reduced Energy Use	San Jose 2010 Green Vision Report
	Reduced Energy Use	San Jose 2010 Green Vision Report
	Reduced Energy Use	San Jose 2010 Green Vision Report
	Goal 3: Renewable Energy	San Jose 2010 Green Vision Report
	Renewable Energy	San Jose 2010 Green Vision Report

	Renewable Energy	San Jose 2010 Green Vision Report
	Renewable Energy	San Jose 2010 Green Vision Report
	Resource Conservation - System Level	Sustainable City Plan Revised 2006
	Resource Conservation - System Level	Sustainable City Plan Revised 2006
	Resource Conservation - System Level	Sustainable City Plan Revised 2006

	Resource Conservation - System Level	Sustainable City Plan Revised 2006
	Economic Development - System Level	Sustainable City Plan Revised 2006
A sustainable state is carbon neutral, and energy is produced from clean, renewable sources and is used efficiently amongst all user groups.	Energy Use	2010 Indicators Report
	Energy Use	2010 Indicators Report
	Energy Use	2010 Indicators Report
	Energy Use	2010 Indicators Report

<p>The amount and type of energy used are central issues related to natural resources and economic growth. Increased demand for energy translates to increased demand from natural resources. Since the supply of fossil fuels is finite, and the use of fossil fuels contributes to air and water pollution and global warming, there is growing interest in alternative, more sustainable forms of energy and in increased energy efficiency.</p>	<p>Resource Use</p>	<p>State of the Bay Area: A Regional Report 2004</p>
<p>Most of the energy we use in our daily lives is produced from fossil fuels - coal, oil, gasoline and natural gas. All of these resources, when combusted, generate carbon dioxide, a primary greenhouse gas that contributes to global climate change. The simplest ways to reduce our dependence on non-renewable energy sources are to use energy much more efficiently and to increase our investment in renewable sources.</p>	<p>Energy</p>	<p>2010 Environmental Index</p>
	<p>Energy, Climate Change and Ozone Depletion</p>	<p>Sustainability Plan 1996</p>
	<p>Energy, Climate Change and Ozone Depletion</p>	<p>Sustainability Plan 1996</p>

<p>Generating energy from renewable sources reduces a community's impact on the environment.</p>	<p>Environment</p>	<p>Orange County 2011 Community Indicators</p>
	<p>Energy</p>	<p>Greener Glendale 2010 Report</p>
	<p>Energy</p>	<p>Greener Glendale 2010 Report</p>
<p>Energy is a critical input for production processes of the regional and national economy. In addition, it is essential for everyday life. Reliance on fossil fuels contributes significantly to regional air pollution and global climate change that would result in adverse impacts on many ecological systems, human health as well as the economy. Further- more, strong dependence of foreign imports greatly reduces the reli- ability and security of this vital resource.</p>	<p>The Environment</p>	<p>The State of the Region 2007</p>

	energy	2011 San Diego Regional Quality of Life Dashboard
	energy	2011 San Diego Regional Quality of Life Dashboard
Conservation and the prudent use of our natural resources are important aspects of a socially responsible society. Societal choice to use renewable resources for the production of energy is a key indicator of this.	Natural Resources & Recreation	Tuolumne County Profile 2008 Community Indicators Project
	Energy	Arizona Indicators ( Project Managed by Morrison Institute of Public Policy
	Energy	Arizona Indicators ( Project Managed by Morrison Institute of Public Policy



	Energy	Arizona Indicators ( Project Managed by Morrison Institute of Public Policy
	County Facilities water and Energy Conservation	Maricopa County Annual Report of Community Indicators ( 2006)
	Energy	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2010
	Energy	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2011
	Energy	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2012
	Energy	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2013
	Energy	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2014
	Energy	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2015
	Energy	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2016

	Energy	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2017
	Energy	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2018
	Energy	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2019
	Energy	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2020
	Energy	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2021
	Energy	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2022
	Energy	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2023
	Energy	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2024
	Energy	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2025

	Energy	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2026
	Energy	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2027
	Energy	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2028
	Energy	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2029
	Energy	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2030
	Energy	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2031
Poses economic disadvantages in the long run and could cause climate changes.	Energy	Metro Pulse: Chicago
Negative effects to temperature changes can occur and be disruptive to the ecosystem.	Energy	Metro Pulse: Chicago

	Greenprint	Minneapolis Sustainability Indicators and Numerical Targets
	Environment	Minnesota Milestones
	Environmental Quality	Sustainable Seattle
	City services: Energy	(Global City Indicators Facility 2009);Assessing sustainability.a guide for local government,M Feiden and E. Hamin
	City services: Energy	(Global City Indicators Facility 2009);Assessing sustainability.a guide for local government,M Feiden and E. Hamin
	City services: Energy	(Global City Indicators Facility 2009);Assessing sustainability.a guide for local government,M Feiden and E. Hamin
	Energy and Air Quality	(Newman and Kenworthy,1999);Assessing sustainability.a guide for local government,M Feiden and E. Hamin

	Energy and Air Quality	(Newman and Kenworthy,1999);Assessing sustainability.a guide for local government,M Feiden and E. Hamin
	Energy and Air Quality	(Newman and Kenworthy,1999);Assessing sustainability.a guide for local government,M Feiden and E. Hamin
	Energy and Air Quality	(Newman and Kenworthy,1999);Assessing sustainability.a guide for local government,M Feiden and E. Hamin
	Energy and Air Quality	(Newman and Kenworthy,1999);Assessing sustainability.a guide for local government,M Feiden and E. Hamin
	Energy and Air Quality	Sustainability Indicators City of Prague
	Energy and Air Quality	Sustainability Indicators City of Prague

City, State, National	Population	Link or Citation	Your Name	Notes
Regional		<a href="http://www.sustainablepittsburgh.org/pdf/2004Indicators.pdf">http://www.sustainablepittsburgh.org/pdf/2004Indicators.pdf</a>	Lindsay S.	
Regional; Cape Cod	215,000	<a href="http://www.sustaincapecod.org/indicators/Energy">http://www.sustaincapecod.org/indicators/Energy</a>	Lindsay S	
Global		<a href="http://sedac.ciesin.columbia.edu/">http://sedac.ciesin.columbia.edu/</a>	Lindsay S	
National - New Zealand		<a href="http://www.stats.govt.nz/browse_for_stats/">http://www.stats.govt.nz/browse_for_stats/</a>	Emily	
National - New Zealand		<a href="http://www.stats.govt.nz/browse_for_stats/environment/">http://www.stats.govt.nz/browse_for_stats/environment/</a>	Emily	
National - New Zealand		<a href="http://www.stats.govt.nz/browse_for_stats/environment/sustainability/">http://www.stats.govt.nz/browse_for_stats/environment/sustainability/</a>	Emily	
National - New Zealand		<a href="http://www.stats.govt.nz/browse_for_stats/environment/sustainability/">http://www.stats.govt.nz/browse_for_stats/environment/sustainability/</a>	Emily	
National - New Zealand		<a href="http://www.stats.govt.nz/browse_for_stats/environment/sustainability/">http://www.stats.govt.nz/browse_for_stats/environment/sustainability/</a>	Emily	









City: Pasadena, CA	137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>	Medora	
City: Pasadena, CA	137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>	Medora	
City: Pasadena, CA	137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>	Medora	
City: Pasadena, CA	137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>	Medora	
City: San Jose, CA	945,942	<a href="http://greenvision.sanjoseca.gov/ReportsPublications.aspx">http://greenvision.sanjoseca.gov/ReportsPublications.aspx</a>	Medora	
City: San Jose, CA	945,942	<a href="http://greenvision.sanjoseca.gov/ReportsPublications.aspx">http://greenvision.sanjoseca.gov/ReportsPublications.aspx</a>	Medora	
City: San Jose, CA	945,942	<a href="http://greenvision.sanjoseca.gov/ReportsPublications.aspx">http://greenvision.sanjoseca.gov/ReportsPublications.aspx</a>	Medora	
City: San Jose, CA	945,942	<a href="http://greenvision.sanjoseca.gov/ReportsPublications.aspx">http://greenvision.sanjoseca.gov/ReportsPublications.aspx</a>	Medora	
City San Jose, CA	945,942	<a href="http://greenvision.sanjoseca.gov/ReportsPublications.aspx">http://greenvision.sanjoseca.gov/ReportsPublications.aspx</a>	Medora	

City: San Jose, CA	945,942	<a href="http://green-vision.sanjoseca.gov/Reports/Publications.aspx">http://green-vision.sanjoseca.gov/Reports/Publications.aspx</a>	Medora	
City: San Jose, CA	945,942	<a href="http://green-vision.sanjoseca.gov/Reports/Publications.aspx">http://green-vision.sanjoseca.gov/Reports/Publications.aspx</a>	Medora	
City: Santa Monica, CA	89,736	<a href="http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf">http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf</a>	Medora	
City: Santa Monica, CA	89,736	<a href="http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf">http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf</a>	Medora	
City: Santa Monica, CA	89,736	<a href="http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf">http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf</a>	Medora	

City: Santa Monica, CA	89,736	<a href="http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf">http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf</a>	Medora	
City: Santa Monica, CA	89,736	<a href="http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf">http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf</a>	Medora	
County: San Mateo County, CA	718,451	<a href="http://www.sustainablesanmateo.org/indicators-report/">http://www.sustainablesanmateo.org/indicators-report/</a>	Medora	
County: San Mateo County, CA	718,451	<a href="http://www.sustainablesanmateo.org/indicators-report/">http://www.sustainablesanmateo.org/indicators-report/</a>	Medora	
County: San Mateo County, CA	718,451	<a href="http://www.sustainablesanmateo.org/indicators-report/">http://www.sustainablesanmateo.org/indicators-report/</a>	Medora	
County: San Mateo County, CA	718,451	<a href="http://www.sustainablesanmateo.org/indicators-report/">http://www.sustainablesanmateo.org/indicators-report/</a>	Medora	

Region: Bay Area Alliance for Sustainable Indicators	7,468,390	<a href="http://www.bayareaalliance.org/indicators.pdf">http://www.bayareaalliance.org/indicators.pdf</a>	Medora	
Region: Silicon Valley (Alameda, Santa Clara, and San Mateo Counties)	4,010,364	<a href="http://www.sustainablesv.org/sites/default/files/dms/svep-2010-environmental-indicatorsfinal.pdf">http://www.sustainablesv.org/sites/default/files/dms/svep-2010-environmental-indicatorsfinal.pdf</a>	Medora	
City: San Francisco, CA	3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf">http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf</a>	Medora	
City: San Francisco, CA	3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf">http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf</a>	Medora	

County: Orange County, CA	3,010,232	<a href="http://egov.ocgov.com/vgnfiles/ocgov/CEO/Docs/2011%20Community%20Indicators.pdf">http://egov.ocgov.com/vgnfiles/ocgov/CEO/Docs/2011%20Community%20Indicators.pdf</a>	Medora	
City: Glendale, CA	191,719	<a href="http://www.grenerglenendale.org/pdf/GreenerGlendale2010ReportFINAL.pdf">http://www.grenerglenendale.org/pdf/GreenerGlendale2010ReportFINAL.pdf</a>	Medora	
City: Glendale, CA	191,719	<a href="http://www.grenerglenendale.org/pdf/GreenerGlendale2010ReportFINAL.pdf">http://www.grenerglenendale.org/pdf/GreenerGlendale2010ReportFINAL.pdf</a>	Medora	
Region: Southern California Association of Governments	18 million	<a href="http://www.scag.ca.gov/publications/pdf/2007/SOTR07_FullReport_lores.pdf">http://www.scag.ca.gov/publications/pdf/2007/SOTR07_FullReport_lores.pdf</a>	Medora	

Region: San Diego Regional	3,095,313	<a href="http://www.equinoxcenter.org/assets/images/Indicators/complete-2010-regional-dashboard-report%20.pdf">http://www.equinoxcenter.org/assets/images/Indicators/complete-2010-regional-dashboard-report%20.pdf</a>	Medora	
Region: San Diego Regional	3,095,313	<a href="http://www.equinoxcenter.org/assets/images/Indicators/complete-2010-regional-dashboard-report%20.pdf">http://www.equinoxcenter.org/assets/images/Indicators/complete-2010-regional-dashboard-report%20.pdf</a>	Medora	
County: Tuolumne County, CA	55,365	<a href="http://www.tuolumnecountyprofile.org/">http://www.tuolumnecountyprofile.org/</a>	Medora	
Arizona State	6,392,017	<a href="http://arizonaindicators.org/sustainability/ozone">http://arizonaindicators.org/sustainability/ozone</a>	Naana	
State	6,392,017	<a href="http://arizonaindicators.org/sustainability/ozone">http://arizonaindicators.org/sustainability/ozone</a>	Naana	







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		www.ppacg.org/Envir/PPSIProject.pdf	Naana	
		www.ppacg.org/Envir/PPSIProject.pdf	Naana	
Regional		http://www.metropulsechicago.org/	Lindsay W.	
Regional		<a href="http://www.metropulsechicago.org/">http://www.metropulsechicago.org/</a>	Lindsay W.	

Regional		<a href="http://www.ci.minneapolis.mn.us/sustainability/docs/2010IndicatorsMatrix.pdf">http://www.ci.minneapolis.mn.us/sustainability/docs/2010IndicatorsMatrix.pdf</a>	Lindsay W.	
State-Minnesota		<a href="http://server.admin.state.mn.us/mm/indicator.html?Id=14&amp;G=29&amp;CI=14">http://server.admin.state.mn.us/mm/indicator.html?Id=14&amp;G=29&amp;CI=14</a>	Lindsay W.	
City		<a href="http://www.sustainableattle.org/sahi/gnh-objective-indicators">http://www.sustainableattle.org/sahi/gnh-objective-indicators</a>	Tim	
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Prague, Czech Republic		http://envis.praha-mesto.cz/(zrm0vvyr dg1d1dvqlzmzmfy2)/default.aspx?ido=5943&sh=874657915	Emma	
Prague, Czech Republic		http://envis.praha-mesto.cz/(zrm0vvyr dg1d1dvqlzmzmfy2)/default.aspx?ido=5943&sh=874657915	Emma	



Smart Resource Use

Indicator	Unit of Measurement
Toxic Emissions	Toxic emissions by type, medium (air, water, land) to which it is discharged, major sources
Waste & Recycling	Pounds of solid waste recycled (as a percentage of total solid waste generated) and total solid waste generated
Land	1. Percentage of total land area (including inland waters) having very low anthropogenic impact 2. Percentage of total
Reducing Population Pressure	1. Percentage change in projected population 2004-2050, 2. Total Fertility rate
Reducing waste and Consumption Pressures	1. Ecological Footprint per capita 2. Waste recycling rates 3. generation of hazardous waste
Reducing Water Stress	1. Industrial organic water pollutant emissions per available freshwater 2. fertilizer consumption per hectare of arable
Natural Resource Management	1. Productivity overfishing 2. Percentage of total forest area that is certified for sustainable management 3. salinized area
Area of Land Use for Farming	Proportion of Total Land
Soil Health	Proportion of Soils Not Meeting Target Range (by health indicator: physical composition, fertility, organic resources, acidity), carbon content, pH, macroporosity
Nitrogen and Phosphorous Content in Soil	Nitrogen & Phosphorous Balance (000 tonnes)
Contaminated Soil Sites	Number of Contaminated Sites

Versatile Soil Extinction	Percent lost by land use class
Hill County Erosion	Erosion Prone Soil in Hectares
Solid Waste Disposal to Landfill**	Percent Composition
Proportion of population with access to kerbside recycling	Percent
Proportion of packaging waste Recycled	Kg
Real Household Consumption Expenditure	\$ (billion)
Water Levels	level of drainage regions
Sustainability of Timber Harvest	Wood volume (million m3)
Zero Waste ACTION: Achieve zero waste to landfills and incinerators by 2040	
Tons of solid waste generated - reported through City-managed programs	Tons of solid waste
Tons of solid waste diverted from landfills - reported through City-managed programs	tons of solid waste diverted
Tons of solid waste landfilled - reported through City-managed programs	Tons of solid waste landfilled

Pounds of solid waste generated per capita	
Pounds of solid waste disposed per capita	
Tons of solid waste generation for Pasadena per State Model	
Tons of solid waste diverted, calculated per State Disposal Reporting System	
Percent of solid waste diverted from landfills into recycling programs	
Manufacturer Waste ACTION: Reduce the use of a disposable, toxic or nonrenewable product category	
Toxic waste generators citywide	
Tons of toxic waste generated citywide	
Recycling ACTION: Implement "user-friendly" recycling and composting programs with the goal of reducing	Per capita solid waste disposal
Per capita solid waste disposal	
Tons of green waste recycled Gallons of hazardous waste recycled	
Pounds of electronic waste recycled	
Gallons of vehicular oil recycled	
Tons of construction and demolition debris recycled	

GOAL: Divert 100 percent of the waste from our landfill and convert waste to energy	
Trash diverted from landfills	
Waste converted to energy (tons)	
Waste converted to energy (Kw/hr)	
GOAL: Recycle or beneficially reuse 100 percent of our wastewater (100 million gallons per day)	
Average daily use recycled	
Average daily use (potable)	
Number of recycled water customers	
GOAL: Ensure that 100 percent of public fleet vehicles run on alternative fuels	
Percent of Alternative Fuel Vehicles	
Annual Fuel Consumption (gasoline)	
Reduce Green House Emissions	
Citywide solid waste generated	Total, per capita, per sector
Amount of waste landfilled	



Amount of waste diverted (recycled, composted, etc) from landfill	
Citywide water use	Total, per capita, per sector
Percent local water vs. percent imported	
Percent potable vs. percent non-potable	
Ecological Footprint for City	
Citywide generation of wastewater (sewage)	Total, per capita, per sector
Total Vehicle Miles Traveled (VMT)	Total, local vs. drive through
Percent of households using the household hazardous waste (HHW) collection facility	Number, %, Cumulative % since 2000, total volume of waste
Volume and toxicity of hazardous materials (including POP & PBT) purchased by the city	
Resource Efficiency of Local Businesses: Ratio of total water use to total economic activity by	
Tons of solid waste disposal in landfills	
Pounds of garbage disposed per day per resident	
Percent of waste that could be composted (e.g. food waste and grass clippings)	
Landfill methane emission	Tons of carbon equivalent emissions

Waste Disposal and Diversion	Tons of annual waste per capita (incl. residential and industrial); % of total waste diverted from landfills (through recycling,
Waste per person per day to landfills; % Diverted from landfills	
Quantity of food and agricultural residuals recycled	
Difference between motor oil purchased in the City and the amount that is properly recycled or Equitable distribution of the hazardous material/waste exposure throughout the city	
Tons of waste landfilled annually	
Recycling rate as a percentage of material generated	
Percentage of residents, businesses, and institutions that participate in recycling programs	
Number of manufacturers using recovered secondary materials as raw material	
Proportion of environmental pollution sources in historically disadvantaged communities with	
Landfill disposal in pounds per person per day	Based on resident population and employee population
Solid and Household Hazardous Waste	Tons of solid waste disposed in Landfills Compared to Population Growth; Pounds of hazardous waste disposed and number of
Action: waste water reduction	
Action: Zero Waste	

Action: Manufacturer Responsibility - Reduce use of Disposable, Non-renewable Product	
Action: Consumer Responsibility - User-friendly Recycling Programs	
Action: Toxics Reduction	
Solid Waste	Estimated tons of waste disposed, waste diverted. Percentage of diversion; Also pounds per person per day of solid waste
Water consumption	Average amount of water consumed per person each day (including municipal and industrial uses)
per capita waste disposal	Average pounds of solid waste per capita (includes residential and commercial waste)
Water Conservation	Gallons per square foot
Ratio of protected natural desert to total developed land	
Per capita water consumption	
Recycling as a percentage of total waste	
Renewable energy as a percentage of total energy use in the region	
Pounds of waste percapita sent to landfills or Other Disposal	Percent Composition/Recycling Efforts
Groundwater Use	Average number of millions of dollars per day withdrawn from the regional deep bedrock aquifer
Total Waste Received by Landfills (Cubic Yards)	Cubic Yards

Clean up Brownfield Sites	Number of improved sites
Waste Reduction and Recycling	
Water Use	Gallons/Percent
Solid Waste and Recycling	Tons
Erosion of Cropland	Percent of Cropland Eroding
Sustainable Land Use: <b>Percentage of Protected Area</b>	

Reduce consumption of building materials per capita ( including declining proportion of old-growth

reduce consumption of paper and packaging per capita

Decrease amount of solid waste ( including increasing recycling rates)

Increase amount of organic waste returned to soil and food production

Environmental burden of disease      EH

Air pollution (effects on humans)      AIR\_H

Water (effects on humans)      WATER\_H

Percent of municipal solid waste recycled

quantitative - percentage of municipal solid waste recycled

waste reduction policies

assessment of measures to reduce waste and make waste disposal more sustainable.

Target	Method of Measurement	Data Source
	measure progress in reducing the production of toxic	EPA Toxic release Inventory
	municipal waste as pounds per person per day	City should have this data

	Scale of severity	
	Scale (low to high)	Water Survey of Canada, Environment Canada
	Supply deemed sustainable for harvest vs. total harvest	Canadian Council of Forest Ministers
100% Diversion		





100%		
TBD		
TBD		
40 million gallons/day by 2022		
40% Reduction by 2022		
1,000 total customers by 2022		
100% by 2022		
750,000 by 2022		
13,000 CO2 tons by 2022		
Do not exceed 2000 levels by 2010		

Increase diversion to 70% by 2010		
Reduce water use by 20% by 2010		
Increase % of potable local water to 70% by 2010		
Increasing percentage of non-potable use		
Downward		
Reduce to 15% below 2000 levels by 2010		
Downward; no target for local vs. drive through		
50% cumulative participation by 2010 since 2000		
TBD		
downward trend		

		CA Integrated Waste Management Board
To truly be sustainable, we need to follow nature's		
Up		
Up		
Up		
Down		
Up		
Up		
Up		
Down		
4.2 lbs per day per resident; 15.1 lbs per day per		
		Sources: County of Orange Integrated Waste Management
Reduce the volume of untreated wastewater		
Zero waste to landfills and incinerators by 2040		

Reduce the use of disposable, toxic, or non-renewable		
Reduce by twenty percent per capita solid waste disposal		
Every year, identify one product, chemical, or		
		Source: California Integrated Waste Management Board
	Measure if an increase number of households begin to recycle or if	
	Drinking water mostly taken from Lake Michigan and the Fox	
		Illinois Environmental Protection Agency

Clean up 100 sites from 2004 to 2014		

Environmental burden  
25 of disease DALY

12.5 Indoor air pollution\* INDOOR

Outdoor air pollution\* PM10

12.5 Access to water\* WATSUP

Access to sanitation\* ACSAT

Why is this important?	Source Principle Heading
contamination of water, air, and land connects directly to physical health, well-being, and economic vitality. Also may be	Nature: Regional Goals
Waste stream directly connected to the quality of the environment, capacity of local landfill, leakage of landfills,	Nature: Regional Goals
	Environmental Systems
	Reducing Environmental Stresses
	Reducing Environmental Stresses
	Reducing Environmental Stresses
	Reducing Environmental Stresses
	Land Use
	Land Use
	Land Use
	Land Use

	Land Use
	Land Use
	Waste
	Waste
	Waste
	Waste
Renewable freshwater is a measure of the total amount of freshwater available for use in Canada and is calculated as the amount of rain and snow that falls minus the amount of water that evaporates. Even with all this water, shortages are a serious problem for regions of Canada where natural water supplies do not always meet human demand.	Water Quality
	Environmental
	Waste Reduction
	Waste Reduction - Zero Waste
	Waste Reduction - Zero Waste
	Waste Reduction - Zero Waste



	Waste Reduction - Zero Waste
	Waste Reduction - Zero Waste
	Waste Reduction - Zero Waste
	Waste Reduction - Zero Waste
	Waste Reduction - Zero Waste
	Waste Reduction
	Waste Reduction - Manufacturer Waste
	Waste Reduction - Manufacturer Waste
	Waste Reduction
	Waste Reduction - Recycling
	Waste Reduction - Recycling
	Waste Reduction - Recycling
	Waste Reduction - Recycling
	Waste Reduction - Recycling

Zero Waste helps keep our air, land, and water clean while generating more local jobs. Reusing products helps to reduce	Goal 5: Zero Waste
	Zero Waste
	Zero Waste
	Zero Waste
	Goal 6: Recycled Water
	Recycled Water
	Recycled Water
	Recycled Water
In Santa Clara County, more than 40 percent of our greenhouse gas emissions come from cars, trucks, buses, and trains.	Goal 8: Clean Fleet Vehicles
	Clean Fleet Vehicles
	Clean Fleet Vehicles
	Clean Fleet Vehicles
	Resource Conservation - System Level
	Resource Conservation - System Level

	Resource Conservation - System Level
	Resource Conservation - System Level
	Resource Conservation - System Level
	Resource Conservation - System Level
	Resource Conservation - System Level
	Environmental and Public Health - System Level
	Environmental and Public Health - System Level
	Environmental and Public Health - Program Level
	Environmental and Public Health - System Level
	Economic Development - System Level
A sustainable state is one where consumption of renewable resources is in balance with nature's ability to replenish	Solid Waste
	Solid Waste
	Solid Waste
	Greenhouse Gas Emissions

As population increases, so does the amount of waste that is produced. Waste presents several challenges, including	Resource Use
Not only do landfills occupy precious space and can pollute groundwater supplies, they are California's second	Solid Waste
	Food and Agriculture
	Hazardous Materials
	Hazardous Materials
	Solid Waste
	Solid Waste
	Solid Waste
	Economy and Economic Development
	Environmental Justice
	Waste Diversion Rate
Reducing solid waste production and diverting recyclables and green waste extends the life of landfills, decreases the	Environment
	Water
	Waste Reduction

	Waste Reduction
	Waste Reduction
	Environmental Health
Disposing of waste in landfills is not only costly but, if not treated properly, could have dire impacts on the ecosystem and	The Environment
	Water
	waste
	County Facilities water and Energy Conservation
	Efficient Use of Natural Resource
	Efficient Use of Natural Resource
	Efficient Use of Natural Resource
	Efficient Use of Natural Resource
	Healthy Ecosystems/Waste
Monitoring the drinking water withdrawal is extremely important since the population is projected to grow by 2	Economy
Once the current landfills reach capacity, trash may have to be exported to other places. Also, more landfills could be	Economy

	Greenprint
	Greenprint
Water and wastewater production can become extremely expensive if water continues to become scarce in some of	Environment
Waste can accumulate faster than natural systems are able to break it down.	Environment
Important for the long-term productivity of the state's soil.	Environment

Water, materials and Waste

Water, materials and Waste

Water, materials and Waste

Water, materials and Waste

25 WHO

World Development  
6.25 Indicators

World Development  
6.25 Indicators

World Development  
6.25 Indicators

World Development  
6.25 Indicators

Indicator Source	City, State, National	Population	Link or Citation	Your Name
Sustainable Pittsburgh	Regional		<a href="http://www.sustainablepittsburgh.org">http://www.sustainablepittsburgh.org</a>	Lindsay S.
Sustainable Pittsburgh	Regional		<a href="http://www.sustainablepittsburgh.org">http://www.sustainablepittsburgh.org</a>	Lindsay S.
Environmental Sustainability Index	Global		<a href="http://sedac.ciesin.columbia.edu/es">http://sedac.ciesin.columbia.edu/es</a>	Lindsay S
Environmental Sustainability Index	Global		<a href="http://sedac.ciesin.columbia.edu/es">http://sedac.ciesin.columbia.edu/es</a>	Lindsay S
Environmental Sustainability Index	Global		<a href="http://sedac.ciesin.columbia.edu/es">http://sedac.ciesin.columbia.edu/es</a>	Lindsay S
Environmental Sustainability Index	Global		<a href="http://sedac.ciesin.columbia.edu/es">http://sedac.ciesin.columbia.edu/es</a>	Lindsay S
Environmental Sustainability Index	Global		<a href="http://sedac.ciesin.columbia.edu/es">http://sedac.ciesin.columbia.edu/es</a>	Lindsay S
Environmental Sustainability Index	Global		<a href="http://sedac.ciesin.columbia.edu/es">http://sedac.ciesin.columbia.edu/es</a>	Lindsay S
Statistics New Zealand	National - New Zealand		<a href="http://www.stats.govt.nz/browse_for">http://www.stats.govt.nz/browse_for</a>	Emily
Landcare Research	National - New Zealand		<a href="http://www.stats.govt.nz/browse_for_stats/envir">http://www.stats.govt.nz/browse_for_stats/envir</a>	Emily
OECD	National - New Zealand		<a href="http://www.stats.govt.nz/browse_for">http://www.stats.govt.nz/browse_for</a>	Emily
Regional councils and Ministry for the Environment	National - New Zealand		<a href="http://www.stats.govt.nz/browse_for">http://www.stats.govt.nz/browse_for</a>	Emily



Landcare Research	National - New Zealand		<a href="http://www.stats.govt.nz/browse_for">http://www.stats.govt.nz/browse_for</a>	Emily
Landcare Research	National - New Zealand		<a href="http://www.stats.govt.nz/browse_for">http://www.stats.govt.nz/browse_for</a>	Emily
Ministry for the Environment	National - New Zealand		<a href="http://www.stats.govt.nz/browse_for">http://www.stats.govt.nz/browse_for</a>	Emily
Ministry for the Environment	National - New Zealand		<a href="http://www.stats.govt.nz/browse_for">http://www.stats.govt.nz/browse_for</a>	Emily
Packaging Council of New Zealand	National - New Zealand		<a href="http://www.stats.govt.nz/browse_for">http://www.stats.govt.nz/browse_for</a>	Emily
Statistics New Zealand	National - New Zealand		<a href="http://www.stats.govt.nz/browse_for">http://www.stats.govt.nz/browse_for</a>	Emily
Environment Canada	National - Canada		<a href="http://www.ec.gc.ca/indicateurs-indicators/default.asp?lang=en&amp;n=7FAFC303-1">http://www.ec.gc.ca/indicateurs-indicators/default.asp?lang=en&amp;n=7FAFC303-1</a>	Emily
Environment Canada	National - Canada		<a href="http://www.ec.gc.ca/indicateurs-indicators/">http://www.ec.gc.ca/indicateurs-indicators/</a>	Emily
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA	137,122	<a href="http://www.ci.pasadena.ca.us/Green">http://www.ci.pasadena.ca.us/Green</a>	Medora
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA	137,122	<a href="http://www.ci.pasadena.ca.us/Green">http://www.ci.pasadena.ca.us/Green</a>	Medora
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA	137,122	<a href="http://www.ci.pasadena.ca.us/Green">http://www.ci.pasadena.ca.us/Green</a>	Medora
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA	137,122	<a href="http://www.ci.pasadena.ca.us/Green">http://www.ci.pasadena.ca.us/Green</a>	Medora



San Jose 2010 Green Vision Report	City: San Jose, CA	945,942	<a href="http://green.vision.sanjoseca.gov/Rep">http://green.vision.sanjoseca.gov/Rep</a>	Medora
San Jose 2010 Green Vision Report	City: San Jose, CA	945,942	<a href="http://green.vision.sanjoseca.gov/Rep">http://green.vision.sanjoseca.gov/Rep</a>	Medora
San Jose 2010 Green Vision Report	City: San Jose, CA	945,942	<a href="http://green.vision.sanjoseca.gov/Rep">http://green.vision.sanjoseca.gov/Rep</a>	Medora
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San Jose 2010 Green Vision Report	City: San Jose, CA	945,942	<a href="http://green.vision.sanjoseca.gov/Rep">http://green.vision.sanjoseca.gov/Rep</a>	Medora
Sustainable City Plan Revised 2006	City: Santa Monica, CA	89,736	<a href="http://www.smgov.net/uploadedFiles">http://www.smgov.net/uploadedFiles</a>	Medora
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Sustainable City Plan Revised 2006	City: Santa Monica, CA	89,736	<a href="http://www.smgov.net/uploadedFiles">http://www.smgov.net/uploadedFiles</a>	Medora
2010 Indicators Report	County: San Mateo County, CA	718,451	<a href="http://www.sustainablesanmateo.org">http://www.sustainablesanmateo.org</a>	Medora
2010 Indicators Report	County: San Mateo County, CA	718,451	<a href="http://www.sustainablesanmateo.org">http://www.sustainablesanmateo.org</a>	Medora
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2010 Indicators Report	County: San Mateo County, CA	718,451	<a href="http://www.sustainablesanmateo.org">http://www.sustainablesanmateo.org</a>	Medora

State of the Bay Area: A Regional Report 2004	Region: Bay Area Alliance for Sustainable	7,468,390	<a href="http://www.bayareaalliance.org/indi">http://www.bayareaalliance.org/indi</a>	Medora
2010 Environmental Index	Region: Silicon Valley (Alameda, Santa Clara, and	4,010,364	<a href="http://www.sustainablesv.org/sites/d">http://www.sustainablesv.org/sites/d</a>	Medora
Sustainability Plan 1996	City: San Francisco, CA	3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/download">http://www.sfenvironment.org/download</a>	Medora
Sustainability Plan 1996	City: San Francisco, CA	3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/download">http://www.sfenvironment.org/download</a>	Medora
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Sustainability Plan 1996	City: San Francisco, CA	3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/download">http://www.sfenvironment.org/download</a>	Medora
Sustainability Plan 1996	City: San Francisco, CA	3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/download">http://www.sfenvironment.org/download</a>	Medora
Sustainability Plan 1996	City: San Francisco, CA	3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/download">http://www.sfenvironment.org/download</a>	Medora
Community Report Card 2010-2011	City: Rocklin, CA	56,974	<a href="http://www.rocklin.ca.gov/civica/fileb">http://www.rocklin.ca.gov/civica/fileb</a>	Medora
Orange County 2011 Community Indicators	County: Orange County, CA	3,010,232	<a href="http://egov.ocgov.com/vgnfiles/ocgov">http://egov.ocgov.com/vgnfiles/ocgov</a>	Medora
Greener Glendale 2010 Report	City: Glendale, CA	191,719	<a href="http://www.greenerglendale.org/pdf">http://www.greenerglendale.org/pdf</a>	Medora
Greener Glendale 2010 Report	City: Glendale, CA	191,719	<a href="http://www.greenerglendale.org/pdf">http://www.greenerglendale.org/pdf</a>	Medora

Greener Glendale 2010 Report	City: Glendale, CA	191,719	<a href="http://www.greenerglendale.org/pdf">http://www.greenerglendale.org/pdf</a>	Medora
Greener Glendale 2010 Report	City: Glendale, CA	191,719	<a href="http://www.greenerglendale.org/pdf">http://www.greenerglendale.org/pdf</a>	Medora
Greener Glendale 2010 Report	City: Glendale, CA	191,719	<a href="http://www.greenerglendale.org/pdf">http://www.greenerglendale.org/pdf</a>	Medora
The State of the Region 2007	Region: Southern California Association of	18 million	<a href="http://www.scag.ca.gov/publications">http://www.scag.ca.gov/publications</a>	Medora
2011 San Diego Regional Quality of Life Dashboard	Region: San Diego Regional	3,095,313	<a href="http://www.equinoxcenter.org/asset">http://www.equinoxcenter.org/asset</a>	Medora
2011 San Diego Regional Quality of Life Dashboard	Region: San Diego Regional	3,095,313	<a href="http://www.equinoxcenter.org/asset">http://www.equinoxcenter.org/asset</a>	Medora
Maricopa County Annual Report of Community Indicators ( 2006)	Maricopa County	3,072,149	<a href="http://www.maricopa.gov/mfr/pdf/C">http://www.maricopa.gov/mfr/pdf/C</a>	Naana
Tucson Arizona Government( Livable Tucson Goals)	Tucson City	520,795	<a href="http://cms3.tucsonaz.gov/livable/lv-">http://cms3.tucsonaz.gov/livable/lv-</a>	Naana
Tucson Arizona Government( Livable Tucson Goals)	Tucson City	520,795	<a href="http://cms3.tucsonaz.gov/livable/lv-">http://cms3.tucsonaz.gov/livable/lv-</a>	Naana
Tucson Arizona Government( Livable Tucson Goals)	Tucson City	520,795	<a href="http://cms3.tucsonaz.gov/livable/lv-">http://cms3.tucsonaz.gov/livable/lv-</a>	Naana
Tucson Arizona Government( Livable Tucson Goals)	Tucson City	520,795	<a href="http://cms3.tucsonaz.gov/livable/lv-">http://cms3.tucsonaz.gov/livable/lv-</a>	Naana
Sustainable Cincinnati	Regional		<a href="http://www.sustainablecincinnati.org/">http://www.sustainablecincinnati.org/</a>	Lindsay W.
Metro Pulse: Chicago	Regional		<a href="http://www.metropulsechicago.org/">http://www.metropulsechicago.org/</a>	Lindsay W.
Metro Pulse: Chicago	Regional		<a href="http://www.metropulsechicago.org/">http://www.metropulsechicago.org/</a>	Lindsay W.

Minneapolis Sustainability Indicators and Numerical Targets	Regional		<a href="http://www.ci.minneapolis.mn.us/sus">http://www.ci.minneapolis.mn.us/sus</a>	Lindsay W.
Minneapolis Sustainability Indicators and Numerical Targets	Regional		<a href="http://www.ci.minneapolis.mn.us/sus">http://www.ci.minneapolis.mn.us/sus</a>	Lindsay W.
Minnesota Milestones	State-Minnesota		<a href="http://server.admin.state.mn.us/mm">http://server.admin.state.mn.us/mm</a>	Lindsay W.
Minnesota Milestones	State-Minnesota		<a href="http://server.admin.state.mn.us/mm">http://server.admin.state.mn.us/mm</a>	Lindsay W.
Minnesota Milestones	State-Minnesota		<a href="http://server.admin.state.mn.us/mm">http://server.admin.state.mn.us/mm</a>	Lindsay W.
				Emma

(Newman and Kenworthy,1999);Assessing sustainability.a guide for local (Newman and Kenworthy,1999);Assessing sustainability.a guide for local (Newman and Kenworthy,1999);Assessing sustainability.a guide for local (Newman and Kenworthy,1999);Assessing sustainability.a guide for local

Naana

Naana

Naana

Naana

Environmental Performance Index

<http://epi.yale.edu/Files> Emma

Environmental Performance Index

<http://epi.yale.edu/Files> Emma

Environmental Performance Index

<http://epi.yale.edu/Files> Emma

Environmental Performance Index

<http://epi.yale.edu/Files> Emma

Environmental Performance  
Index

<http://epi.yale.edu/Files> Emma  
<http://www.siemens.com>

Siemens

[m/entry/cc/f](http://www.siemens.com/entry/cc/f) Emma  
<http://www.siemens.com>

Siemens

[m/entry/cc/f](http://www.siemens.com/entry/cc/f) Emma

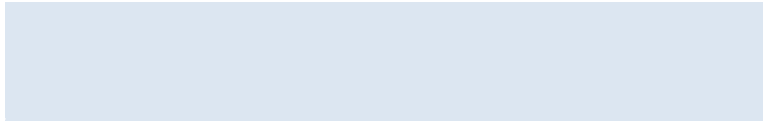


Notes









Should this also be under air quality? Or only air quality?

Should this be somewhere else?







10 DALYs per  
1,000  
population  
0% of  
population  
exposed

$\leq 20 \text{ ug/m}^3$   
100% of  
population  
with access



100% of  
population  
with access



## Community Design

Indicator	Unit of Measurement	Target
Land Use and Open Space Resource Use	acres	
Urban Planning ACTION: Advance higher density, mixed use, pedestrian, and bike-friendly neighborhoods that are accessible for disabled persons, and coordinate land use and transportation with open space systems for recreation and ecological restoration.		
Acres of City-owned parks and open space		
Percent of total miles of City streets with bike lanes		
Percent of residential, mixed-use projects within 1/4 mile of public transit		
New accessible ramps		

Retrofitted accessible ramps		
Intersections with tactile signal controls		
Green Space Access ACTION: Ensure that there is a public park or recreational open space within 1/2 kilometer of all residents by 2015		
Acres of City-owned parks and open space		
Square feet of City-owned parks and open space per capita		
Percent of households within 1/4 mile of a park or recreational open space		
Percent of households within 1/2 mile of a park or recreational open space		
Acres of City-owned parks and open space added		
Lineal feet of total existing hiking trails		
Lineal feet of new/restored hiking trails		

Schools included in the City's Joint Use Agreement with PUSD, allowing schools to function as neighborhood parks		
Schools functioning as neighborhood parks		
GOAL: Adopt a General Plan with measurable standards for sustainable development	Degree of implementation of the finished plan	
GOAL: Plant 100,000 new trees and replace 100 percent of our streetlights with smart, zero-emission lighting		
Number of new trees planted		100,000 by 2022
Percent of streetlights that are smart		100% by 2022

Streetlight energy use		50% reduction by 2022
GOAL: Create 100 miles of interconnected trails		
Trail Miles (off street)		100 miles
Bikeway Miles (on street)		400 miles
Cost of Living: Household income in relation to cost of living index		no target
Park Accessibility: Percent of households and population within 1/4 and 1/2 mile of a park by neighborhood		Upward trend

<p>Land Use and Development: % of residential, mixed-use projects within .25 mi of transit nodes and are otherwise consistent with Sustainable City Program goals</p>		<p>Upward trend</p>
<p>Availability of affordable housing: % of existing and new housing affordable to very low, low, moderate, and upper income households</p>		<p>TBD in 2008</p>
<p>Distribution of affordable housing by neighborhood</p>		<p>No target</p>
<p>Special needs affordable housing: Percent of new or rehabilitated affordable housing units for special needs groups, including families, seniors, the disabled, and others</p>		<p>Upward trend</p>

Livable Housing: Percent of low income housing units in non-residential zone districts as a percentage of total new housing		Upward trend
Livable Housing: Percent of low income housing within .25 mi of transit stop, open space, and grocery store (each reported separately)		Upward trend
First time home buyer affordability	% of households that can afford an entry level home, as defined by 85% of median price	
Median sales price for single-family homes		
household income necessary to buy a median priced single-family home		

average rent		
Number of unsheltered homeless		
Number of sheltered homeless		
% of homeless who are chronically homeless		
% of homeless who are veterans		



<p>% of new housing that must meet affordability criteria</p>		
<p>Adoption of selected land use policies</p>	<p>TOD, health component in plan, urban trails system</p>	
<p>Protected Open space; total acres and percentage of land</p>	<p>Protected open space is defined as land restricted from new development and construction</p>	
<p>Acres of city-owned park per 1,000 residents</p>		

Protected Land	Amount of land urbanized in last 8 years; relative risk of development; percentage of protected land	
Brownfields	# of sites, total acres (of brownfield in assessment stage)	
Neighborhood Investment: Investment in Targeted Low Income Neighborhoods	No data available yet	
Gentrification/Residential Displacement	No data available yet	

Percentage of the population with a recreational facility and a natural setting within a ten-minute walk.		Up
Number of neighborhood green street corridors created annually		Up
Number of volunteer hours spent annually on maintenance of open space		Up
Annual municipal expenditures on parks, open space, and streetscapes		Up
Redevelopment tax increment		

<p>Action: Urban Planning - Neighborhood</p>		<p>Increase higher density, mixed use, walkable, bikeable and disabled-accessible neighborhoods which coordinate land use and transportation with open space systems for recreation and ecological reconstruction.</p>
<p>Action: Parks - Recreational Open Space</p>		<p>Accessible public park or recreational open space within 1/2 kilometer of every city resident by 2015.</p>
<p>conserved lands, park access, and trails</p>	<p>1) # of acres of conserved land per 1000 residents; 2) # of acres of park (including parks, schoolyards, beaches, forests) per 1000 residents; 3) # of feet of existing trails vs. # of planned or proposed trails</p>	

public land use	Acres of public land by ownership, % public and % private	
infrastructure - utilities	Fees and service rates for water and sewer connections, water rates, sewage and disposal rates.	
Heritage Assets	# of buildings on historic registers, # of historical buildings demolished	
land use density	# of residences per acre for single-family residential housing projects with 100 or more units	Upward

Open Space	Acres of Open Space in unincorporated Maricopa	
Park Recreation Trail Miles	Miles	
Annual life-cycle costs of building/maintaining urban infrastructure and facilities per capita		
Percent of Urban development within 1/2 mile of basic urban institutions		
Percent urban development with natural area access reasonably available by walking or bicycling		
Percent of urban infrastructure built with “green” or “sustainable” procurement standards (including “built to last” techniques) that include sustainability practices of businesses, not just products		
Ratio of City building permits to total regional building permits		
Dollars invested in restoring and renovating inner-city buildings		

Ratio of protected natural desert to total developed land		
Percentage of residences located within half a mile of a market		
Ratio of urban open space to developed land		
Cleanliness of the community		
Ratio of miles of quality pedestrian and bike paths to total lane miles of roads		
Percentage of residences within half a mile of designated open space		
Dollars invested in downtown restoration and new development projects		
Non-Urbanized Land (Acres)	Acres	
Recreational Trails	Miles	

Parkland and Open Space		
Percent of land in the region devoted to people habitat, car habitat, wildlife habitat, and agriculture	Pie Chart	
Acres of Farmland	Acres	
Multi-racial neighborhoods (gentrification, social cohesion, inclusiveness)		
Feelings of safety		
Safety perceptions	fearful about crime in neighborhood/crime in city	



Citizen Satisfaction with the Local Community: <b>Average Satisfaction with the Local Community</b> (overall and mean)		
Availability of Local Public Open Areas and Services: <b>Percentage of citizens living within 300m from public open and areas &gt;5000m2</b>		
Children's Journeys to and from School: <b>Percentage of children going to school by car</b>		
Noise Pollution: <b>Percentage of Population Exposed to Lnight &gt; 55db(A)</b>		

Preserve agricultural land and natural landscape at urban fringe

Increase amount of green space in local or regional parks per capita, particularly in

Increase proportion of urban redevelopment to new development

increase number of specially zoned transit oriented-locations

Increase miles of pedestrian friendly streets ( based on specific indicators)in the city and subcenters

Increase proportion of city/suburbs with urban design guidelines to assist communities in redevelopment

Increase proportion of city allowing mixed use, higher density urban villages

Green Spaces

quantitative - sum of all public parks, recreation areas, greenways, waterways and other protected areas accessible to the public, as a percentage of total city area.

Population Density

Quant - Number of inhabitants per square mile.

Green land Use Policies

Qual - assessment of a city's efforts to sustain and improve the quantity and quality (i.e. proximity and usability) of green spaces, and its tree planting policy.

Urban Sprawl

Qual - assessment of how rigorously a city promotes containment of urban sprawl and reuse of brownfield areas.

Method of Measurement	Data Source	Why is this important?	Source Principle Heading
measures the acres of land developed, the acres of land already protected as permanent open space, and the acres of land remaining	Assessor's data	how we develop our land affects community character, not just visually, but economically, socially and environmentally. When we grow in a	Land Use
			Urban Design
			Urban Design - Urban Planning
			Urban Design - Urban Planning
			Urban Design - Urban Planning
			Urban Design - Urban Planning



			Urban Nature - Green Space Access
			Urban Nature - Green Space Access
			Goal 7: Sustainable Development
		Trees and improved streetlights will bring significant environmental and social benefits to the City of San José. Trees provide shade, reduce air conditioning bills, filter air pollutants, and boost property values while smart, zero emission streetlights will improve the quality of light on the City's streets and reduce associated CO2 emissions.	Goal 9: Trees and Zero Emission Streetlights
			Trees and Zero Emission Streetlights
			Trees and Zero Emission Streetlights

			Trees and Zero Emission Streetlights
			Goal 10: Interconnected Trails
			Interconnected Trails
			Interconnected Trails
			Economic Development - System Level
			Open Space and Land Use - System Level

			Open Space and Land Use - System Level
			Housing - System Level
			Housing - System Level
			Housing - Program Level



			Housing - Program Level
			Housing - Program Level
	California Association of Realtors (CAR)	A sustainable state is one where housing is available and affordable to all members of society and new housing is built to meet projected population and job growth.	Housing Affordability
			Housing Affordability
			Housing Affordability

			Housing Affordability
		In a sustainable state all residents of a community have access to a safe and permanent residence and temporarily homeless individuals have access to high-quality shelters and support services.	Housing: Homelessness
			Housing: Homelessness
			Housing: Homelessness
			Housing: Homelessness

		In a sustainable state land use policies accommodate growth, protect open space and agriculture, support local businesses, and encourage increased development in areas that provide residents easy access to public and commercial services, jobs, and transit.	Land Use
			Land Use
		A sustainable state is one where parks and open space are abundant, of good quality, and readily accessible to all residents.	Parks and Open Space
			Parks and Open Space

	CA's Farmland Mapping and Monitoring Program; Greenbelt Alliance;	Greenbelt refers to the open landscapes that surround a region's urban areas. Some greenbelt is publicly owned but most is privately owned. The greenbelt provides fresh fruits and vegetables, wine, recreation, plant and wildlife habitat, cleaner air and water, and beautiful landscapes. In addition, the greenbelt supports the agricultural and tourism sectors of the Bay Area economy.	Natural Assets
	EPA's Brownfield Program (underrepresents brownfields, but is the only data available)	Abandoned, contaminated industrial and commercial sites, or "brownfields," create safety and health risks for residents.	Natural Assets
			Neighborhood Integrity
			Neighborhood Integrity

			Parks, Open Spaces and Streetscapes
			Parks, Open Spaces and Streetscapes
			Parks, Open Spaces and Streetscapes
			Parks, Open Spaces and Streetscapes
		Tax increment revenue is used by the Redevelopment Agency to support bonds and other forms of borrowing. The revenues from bonds and borrowing is used to fund projects in the Redevelopment project area which alleviate and eliminate blight.	Redevelopment Tax Increment

			Urban Design
			Urban Nature
			Land Use

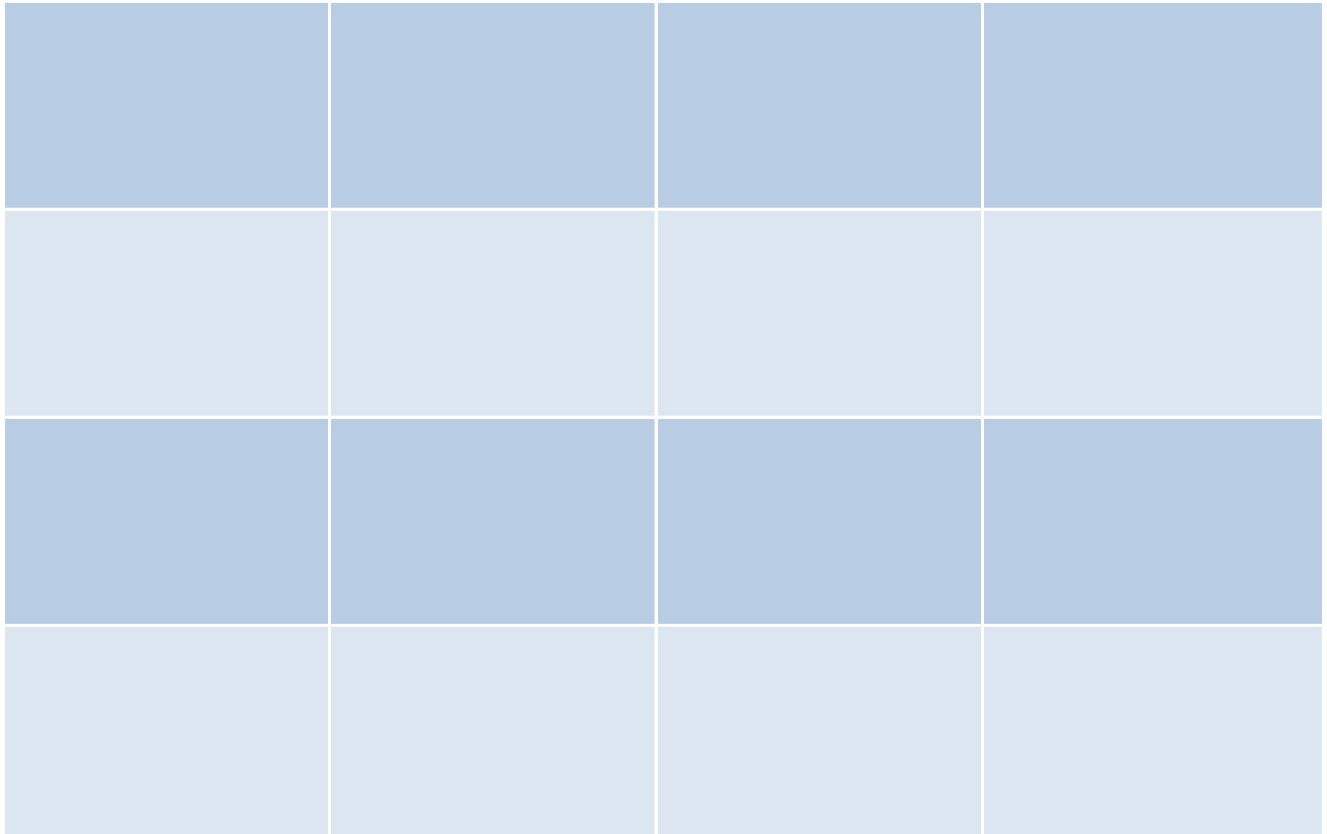
	Source: Community Development Department, Assessor's office, Planning department	Although these public lands are not available for development they do provide other economic benefits to Tuolumne County through natural resources, tourism, recreation and employment.	Economy & Infrastructure
	Source: agency contacts	Infrastructure forms the backbone of a community. It consists of the facilities and services needed to sustain industry, residential, commercial, and all other land use activities.	Economy & Infrastructure
	Source(s): Office of Historic Preservation; county community development	Historic buildings and heritage sites are valuable for the past that they represent and for education and recreational opportunities available to local residents and to our many visitors.	Arts & Heritage
		Measures land use efficiency, which decreases dependence on automobiles, lessens air quality impacts, infrastructure costs, and impact on public health	Land

			Open Space
			Open Space
			Land Use( urban Infrastructure Cost Effectiveness
			Land use(Urban Infrastructure Access)
			Land Use ( Walk-ability and Bike-ability of Urban Development
			Land Use
			Biodiversity/Ecosystem Health
			Infill and Reinvestment
			Infill and Reinvestment



			Infill and Reinvestment
			Infill and Reinvestment
			Abundant Urban Green Space and recreation Areas
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	Permit Computer System, Development Service Department		Successful Downtown
Measures the amount of open space		Measures progress in protecting parks, forests and farms	Environment
		Preserves plant and animal life and is used for recreational purposes also.	Environment

Between 1991 and 2000 the number of parks increased while the amount of acres per person decreased. The goal is too increase the amount of parks and acres per person.		Allows recreation and enjoyment of natural areas.	Environment
			Healthy Ecosystems/Land Use
Tracks success in preserving farmland		Preserves rural quality of the community	Economy
			Cultural Vitality
subjective survey			Social Topics
telephone/face-to-face survey			Public Safety



Land,Green spaces and Bi

green belt around city

Land,Green spaces and Bi

Land,Green spaces and Bi

Land,Green spaces and Bi

Livability, Human  
Amenities and Health

Livability, Human  
Amenities and Health

Livability, Human  
Amenities and Health



Indicator Source	City, State, National	Population	Link or Citation
Sustaincapecod.org	Regional; cape cod	215,000	<a href="http://www.sustaincapecod.org/indicators/LandUse">http://www.sustaincapecod.org/indicators/LandUse</a>
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA	137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA	137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>
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San Jose 2010 Green Vision Report	City: San Jose, CA	945,942	<a href="http://green.vision.sanjoseca.gov/ReportsPublications.aspx">http://green.vision.sanjoseca.gov/ReportsPublications.aspx</a>
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San Jose 2010 Green Vision Report	City: San Jose, CA	945,942	<a href="http://green.vision.sanjoseca.gov/ReportsPublications.aspx">http://green.vision.sanjoseca.gov/ReportsPublications.aspx</a>
San Jose 2010 Green Vision Report	City: San Jose, CA	945,942	<a href="http://green.vision.sanjoseca.gov/ReportsPublications.aspx">http://green.vision.sanjoseca.gov/ReportsPublications.aspx</a>
Sustainable City Plan Revised 2006	City: Santa Monica, CA	89,736	<a href="http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf">http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf</a>
Sustainable City Plan Revised 2006	City: Santa Monica, CA	89,736	<a href="http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf">http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf</a>

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2010 Indicators Report	County: San Mateo County, CA	718,451	<a href="http://www.sustainablesanmateo.org/indicators-report/">http://www.sustainablesanmateo.org/indicators-report/</a>
2010 Indicators Report	County: San Mateo County, CA	718,451	<a href="http://www.sustainablesanmateo.org/indicators-report/">http://www.sustainablesanmateo.org/indicators-report/</a>
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State of the Bay Area: A Regional Report 2004	Region: Bay Area Alliance for Sustainable Indicators	7,468,390	<a href="http://www.bayareaalliance.org/indicators.pdf">http://www.bayareaalliance.org/indicators.pdf</a>
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Sustainability Plan 1996	City: San Francisco, CA	3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf">http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf</a>
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Sustainability Plan 1996	City: San Francisco, CA	3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf">http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf</a>
Community Report Card 2010-2011	City: Rocklin, CA	56,974	<a href="http://www.rocklin.ca.gov/civica/filebank/blobload.asp?BlobID=13411">http://www.rocklin.ca.gov/civica/filebank/blobload.asp?BlobID=13411</a>

Greener Glendale 2010 Report	City: Glendale, CA	191,719	<a href="http://www.greenerglendale.org/pdf/GreenerGlendale2010ReportFINAL.pdf">http://www.greenerglendale.org/pdf/GreenerGlendale2010ReportFINAL.pdf</a>
Greener Glendale 2010 Report	City: Glendale, CA	191,719	<a href="http://www.greenerglendale.org/pdf/GreenerGlendale2010ReportFINAL.pdf">http://www.greenerglendale.org/pdf/GreenerGlendale2010ReportFINAL.pdf</a>
2011 San Diego Regional Quality of Life Dashboard	Region: San Diego Regional	3,095,313	<a href="http://www.equinoxcenter.org/assets/images/Indicators/complete-2010-regional-dashboard-report%20.pdf">http://www.equinoxcenter.org/assets/images/Indicators/complete-2010-regional-dashboard-report%20.pdf</a>



<p>Tuolumne County Profile 2008 Community Indicators Project</p>	<p>County: Tuolumne County, CA</p>	<p>55,365</p>	<p><a href="http://www.tuolumnecountyprofile.org/">http://www.tuolumnecountyprofile.org/</a></p>
<p>Tuolumne County Profile 2008 Community Indicators Project</p>	<p>County: Tuolumne County, CA</p>	<p>55,365</p>	<p><a href="http://www.tuolumnecountyprofile.org/">http://www.tuolumnecountyprofile.org/</a></p>
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<p>The Environment: Indicator Series Second Edition 2005-2008</p>	<p>Region: Great Central Valley</p>	<p>6.5 million</p>	<p><a href="http://www.greatvalley.org/indicators/">http://www.greatvalley.org/indicators/</a></p>

Maricopa County Annual Report of Community Indicators ( 2006)	Maricopa County	3,072,149	<a href="http://www.maricopa.gov/mfr/pdf/Com_Indicators.pdf">http://www.maricopa.gov/mfr/pdf/Com_Indicators.pdf</a>
Maricopa County Annual Report of Community Indicators ( 2006)	Maricopa County	3,072,149	<a href="http://www.maricopa.gov/mfr/pdf/Com_Indicators.pdf">http://www.maricopa.gov/mfr/pdf/Com_Indicators.pdf</a>
Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2005			<a href="http://www.ppacg.org/Envir/PPSIProject.pdf">www.ppacg.org/Envir/PPSIProject.pdf</a>
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Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2006			<a href="http://www.ppacg.org/Envir/PPSIProject.pdf">www.ppacg.org/Envir/PPSIProject.pdf</a>
Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2008			<a href="http://www.ppacg.org/Envir/PPSIProject.pdf">www.ppacg.org/Envir/PPSIProject.pdf</a>
Tucson Arizona Government( Livable Tucson Goals)	Tucson City, Arizona	520,795	<a href="http://cms3.tucsonaz.gov/livable/lv-toc">http://cms3.tucsonaz.gov/livable/lv-toc</a>
Tucson Arizona Government( Livable Tucson Goals)	Tucson City, Arizona	520,795	<a href="http://cms3.tucsonaz.gov/livable/lv-toc">http://cms3.tucsonaz.gov/livable/lv-toc</a>

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Tucson Arizona Government( Livable Tucson Goals)	Tucson City, Arizona	520,795	<a href="http://cms3.tucsonaz.gov/livable/lv-toc">http://cms3.tucsonaz.gov/livable/lv-toc</a>
Metro Pulse: Chicago	Regional		<a href="http://www.metropulsechicago.org/">http://www.metropulsechicago.org/</a>
Minnesota Milestones	State-Minnesota		<a href="http://server.admin.state.mn.us/mm/indicator.html?id=14&amp;G=29&amp;CI=14">http://server.admin.state.mn.us/mm/indicator.html?id=14&amp;G=29&amp;CI=14</a>

Minnesota Milestones	State-Minnesota		<a href="http://server.admin.state.mn.us/mm/indicator.html?id=14&amp;G=29&amp;CI=14">http://server.admin.state.mn.us/mm/indicator.html?id=14&amp;G=29&amp;CI=14</a>
			<a href="http://www.metropulsechicago.org/">http://www.metropulsechicago.org/</a>
Metro Pulse: Chicago	Regional		<a href="http://www.metropulsechicago.org/">http://www.metropulsechicago.org/</a>
Sustainable Seattle	City		<a href="http://www.sustainablesattle.org/sahi/gnh-objective-indicators">http://www.sustainablesattle.org/sahi/gnh-objective-indicators</a>
Missoula Measures	County		<a href="http://www.co.missoula.mt.us/measures/Social/Safety.htm">http://www.co.missoula.mt.us/measures/Social/Safety.htm</a>
Anchorage Community Assessment Project	City		<a href="http://www.appliedsurveyresearch.org/www/products/2006%20Anchorage%20CAP%20Final%20Report%2003.pdf">http://www.appliedsurveyresearch.org/www/products/2006%20Anchorage%20CAP%20Final%20Report%2003.pdf</a>

European Common Indicators			<a href="http://www.gdrc.org/ue m/footprints /eci_final_re port.pdf">http://www.gdrc.org/ue m/footprints /eci_final_re port.pdf</a>
European Common Indicators			<a href="http://www.gdrc.org/ue m/footprints /eci_final_re port.pdf">http://www.gdrc.org/ue m/footprints /eci_final_re port.pdf</a>
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European Common Indicators			<a href="http://www.gdrc.org/ue m/footprints /eci_final_re port.pdf">http://www.gdrc.org/ue m/footprints /eci_final_re port.pdf</a>

(Newman and Kenworthy,1999);Assessing sustainability.a guide for local government,M Feiden and E. Hamin  
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Siemens

[http://www.siemens.com/entry/cc/features/greencityindex\\_international/all/en/pdf/report\\_northamerica\\_en.pdf](http://www.siemens.com/entry/cc/features/greencityindex_international/all/en/pdf/report_northamerica_en.pdf)

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[http://www.siemens.com/entry/cc/features/greencityindex\\_international/all/en/pdf/report\\_northamerica\\_en.pdf](http://www.siemens.com/entry/cc/features/greencityindex_international/all/en/pdf/report_northamerica_en.pdf)

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[http://www.siemens.com/entry/cc/features/greencityindex\\_international/all/en/pdf/report\\_northamerica\\_en.pdf](http://www.siemens.com/entry/cc/features/greencityindex_international/all/en/pdf/report_northamerica_en.pdf)

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## Green Buildings

Indicator	Unit of Measurement	Target
Green Building ACTION: Mandate a green building rating system standard that applies to all new municipal buildings.		
LEED (Leadership in Energy & Environmental Design) certified buildings		
LEED registered buildings		
LEED certified municipal buildings		
Square footage of LEED projects - building permits issued		
Square footage of new construction		

GOAL: Build or retrofit 50 million square feet of green buildings

Certified Green Building Space

Square Feet

50 Million Sq Ft by 2022

USGBC LEED Certified and Build it Green (BIG) GreenPoint Rated Projects Completed

Percent of new construction that is LEED certified - greater than 10,000 sq ft

In 2010, 100% of buildings larger than 10,000 sq ft and eligible shall achieve LEED or its equivalent. 20% silver, 10% gold, 1% platinum.

<p>Percent of new construction that is LEED certified - less than 10,000 sq ft</p>		<p>In 2010, 50% of buildings less than 10,000 sq ft and eligible shall achieve LEED or its equivalent.</p>
<p>Production of "Green" Housing: Percent of new and substantially-rehabilitated housing that complies with Green Building Ordinance #1995 as a percentage of the total new and rehabilitated housing</p>		<p>Upward trend</p>
<p># of homeless living in city</p>		<p>no target</p>
<p>% of homeless population served by city shelter that transition to permanent housing</p>		<p>Upward trend</p>

Total LEED-certified space	square feet	
Total number of green-point rated homes		
Housing Supply	% growth in housing, jobs, workers, and population	

Jobs - Housing Balance	% of jobs matched by resident employees in city households; capacity of transportation system to deliver workers from one area to another	
Population Density and Intensity of Land Use	residents per acre; intensity is # of residents + # of workers / acre	

Housing Affordability

Percentage of homes median income families can afford to buy

Homelessness

Estimated number and percent of population

Housing Demand

Cumulative change  
in housing permits  
and jobs; housing  
demand; new jobs  
created versus  
housing permits  
granted

Housing Affordability

Income Needed to  
Afford Median-  
Priced Home  
Compared to Typical  
Salaries



Rental Affordability	Housing Wage – the hourly wage a resident needs to afford “Fair Market Rent” (the median rent in the Orange County market) (by one, two, and three bedroom)	
Family Housing Security	Number and percentage of Homeless and Unstably-Housed Pre-K through 12th Grade Students by Primary Nighttime Residence (unknown, unsheltered (cars, parks, campgrounds), shelters, hotels/motels, doubled-up/tripled-up)	

Action: Green Building		Adopt a policy that mandates a green building rating system standard that applies to all new municipal buildings
Housing Construction	Number of residential permits, value of permits, by single family and multifamily	
Homeownership	Percent of homeownership	

<p>Housing Affordability</p>	<p>(Percent of Households Who Can Afford to Purchase a Home at 85% of the Median-Priced Home);  (Percent of Households Who Can Afford to Purchase a Median-Priced Home);  Renters, Owner Households Paying 30 Percent or More of Household Income on Housing</p>	
<p>Housing Crowding</p>	<p>Percent of households with more than one occupant per room excluding the bathroom (owner, renter, all households)</p>	
<p>residential land development</p>	<p># of acres developed or zoned for residential use for every additional 100 persons</p>	

Income allocation towards housing	% of residents who spend more than 35% of gross income on housing	
housing	Households paying more than 30% income on housing; median home prices	
Housing Affordability	Fair Market Rent for each county	
Value of owner occupied housing	median	
Crowded Housing	People divided by Rooms	

Housing types	Many different types	
Household types	e.g. non-family, family	
Household types	single mother, single father, 2 parents	
Homeownership rates	owner-occupied homes	
Homelessness (no indicator cited)		
% of income paid for rent among renters		

Cost of housing	% increase from previous year	
Affordable housing		
Property Crime Rates	per 1000	
Number of Leed certified buildings	quantitative - per 100,000 persons	

energy efficient building standards	qualitative - assessment of whether a city requires energy audits and whether energy consumption regulations require that new buildings satisfy energy efficiency standards.	
energy efficient building incentives	assessment of a city's incentives for retrofitting buildings to improve energy efficiency and how widely it promotes energy efficiency in homes and offices.	

Method of Measurement	Data Source	Why is this important?	Source Principle Heading
			Urban Design
			Urban Design - Green Building
			Urban Design - Green Building
			Urban Design - Green Building
			Urban Design - Green Building
			Urban Design - Green Building



		People spend 90 percent of their time indoors and buildings are responsible for 70 percent of our electricity use and 40 percent of our total carbon dioxide emissions. Green building practices lower energy, water and utility costs, while improving indoor air quality and increasing health and productivity.	Goal 4: Green Buildings
			Green Buildings
			Green Buildings
			Resource Conservation - Program Level

			Resource Conservation - Program Level
			Housing - Program Level
			Human Dignity - System Level
			Human Dignity - System Level

		In a sustainable state buildings are resource efficient, produce minimal waste, are built with nontoxic substances, have healthy indoor environments, and are located to allow for use of public transportation.	Green Buildings
Data was unavailable			Green Buildings
	Association of Bay Area Govts	When housing supply does not keep pace with population and job growth, workers are forced to live far away from their places of employment and commute long distances to work. Achieving an adequate and diverse supply of housing so that residents at all income levels have access to affordable housing within the region is an essential step towards a more sustainable future.	Housing

		In a large metropolitan region such as the Bay Area, with residential areas often at a distance from employment areas, many people must commute to work.	Housing
	Census	When job growth exceeds housing growth, the resulting housing shortage increases nearby housing prices, leads to longer, often congested commutes, and increases air pollution. With limited land for new subdivisions within a reasonable distance, additional housing may be built at walkable densities close to rail stations and bus stops.	Housing

	National Association of Homebuilders' Housing Opportunity Index (HOI)	Lack of affordable rental housing often leads to overcrowded or unsafe housing conditions and seriously impacts the ability of low- to moderate-income families to meet other basic needs. The housing shortage leads to longer and more congested commutes, more air pollution, diminished productivity, and less family time.	Housing
	A variety of nonprofits	The decrease in affordable housing has contributed to an increase in the number of individuals who are living in overcrowded conditions, are precariously housed, or even homeless. The number of homeless children and adults not only reflects the affordable housing shortage but also provides a telling indicator of overall community well being.	Housing

	<p>Hanley Wood Market Intelligence (<a href="http://www.hanleywood.com/hwmi">www.hanleywood.com/hwmi</a>); United States Bureau of Labor Statistics (<a href="http://www.bls.gov">www.bls.gov</a>)</p>	<p>An adequate housing supply is essential for a community's labor force. When an economy is growing, new housing is needed for the additional workers employed. If the housing demand is unmet, it can drive up home prices and apartment rents beyond what is affordable to many workers and residents.</p>	<p>Economic and Business Climate</p>
	<p>Orange County Business Council analysis of California Association of Realtors data; California Employment Development Department (<a href="http://www.edd.ca.gov">www.edd.ca.gov</a>)</p>	<p>High relative housing prices adversely impact businesses' ability to attract and retain workers. A shortage of affordable housing, particularly for first-time buyers, discourages young workers from moving to or remaining in Orange County.</p>	<p>Economic and Business Climate</p>

	<p>Orange County Business Council analysis of US Department of Housing and Urban Development Fair Market Rent (<a href="http://www.huduser.org">www.huduser.org</a>) using the methodology of the National Low Income Housing Coalition (<a href="http://www.nlihc.org">www.nlihc.org</a>); California Employment Development Department (<a href="http://www.edd.ca.gov">www.edd.ca.gov</a>)</p>	<p>Lack of affordable rental housing can lead to crowding and household stress. Less affordable rental housing also restricts the ability of renters to save for a down payment on a home, limiting their ability to eventually realize the long-term advantages of home-ownership. Ultimately, a shortage of affordable housing for renters can instigate a cycle of poverty.</p>	<p>Economic and Business Climate</p>
	<p>Source: Orange County Department of Education (<a href="http://mv.ocde.us/OC_Homeless_Data.htm">http://mv.ocde.us/OC_Homeless_Data.htm</a>); and CA dept of Education</p>	<p>Living doubled- or tripled-up with another family due to economic constraints can place stress on personal relationships, housing stock, public services, and infrastructure. When shared housing is not an option – or if other factors arise such as foreclosure, financial loss, or domestic violence – the result can be homelessness.</p>	<p>Health and Prosperity</p>

			Urban Design
	Source: Construction Industry Research Board	The magnitude of housing construction, population growth, and new households is a major determinant of housing prices. The residential construction industry is also an important source of employment and corporate profit in the region.	Housing
	Source: U.S. Census Bureau, 2000 Census, 2005 and 2006 American Community Survey	Owning one's home has long been considered an important part of the American Dream. The equity generated from homeownership represents almost 45 percent of total household wealth. <sup>1</sup> Homeownership has also been an important pathway particularly for working-class families to accumulate enough wealth to ascend into the middle class. <sup>2</sup> Higher homeownership rates also help to improve neighborhood stability.	Housing



	<p>Source: California Association of Realtors; H Cost Burden Source: U.S. Census Bureau, 2000 Census, 2005 and 2006 American Community Survey</p>	<p>Housing affordability provides an indication of the level of financial burden of housing expenses. Housing constitutes the largest share of household expenditures among all consumption items.</p>	<p>Housing</p>
	<p>Source: U.S. Census Bureau, 2006 American Community Survey</p>	<p>Housing crowding measures the percent of housing units with more than one person per room, including all rooms except bathrooms. It provides an indication of housing shortages and housing affordability. Lack of affordable housing will lead to higher levels of housing crowding.</p>	<p>Housing</p>
			<p>Land Use</p>

			Housing Affordability
		A diverse supply of adequate, affordable housing for residents at all income levels is essential to a healthy community.	Economy & Infrastructure
Federal government published			Housing
	US Census		Housing
	US Census		Housing

	US Census		Housing
	US Census		Family/Kids
	US Census		Social Topics
	US Census		Social Topics
			Social Topics
	US Census		Social Topics

			Economy
			Economy
	Anchorage PD		Public Safety




San Jose 2010 Green Vision Report	City: San Jose, CA	945,942	<a href="http://green.vision.sanjoseca.gov/ReportsPublications.aspx">http://green.vision.sanjoseca.gov/ReportsPublications.aspx</a>
San Jose 2010 Green Vision Report	City: San Jose, CA	945,942	<a href="http://green.vision.sanjoseca.gov/ReportsPublications.aspx">http://green.vision.sanjoseca.gov/ReportsPublications.aspx</a>
San Jose 2010 Green Vision Report	City: San Jose, CA	945,942	<a href="http://green.vision.sanjoseca.gov/ReportsPublications.aspx">http://green.vision.sanjoseca.gov/ReportsPublications.aspx</a>
Sustainable City Plan Revised 2006	City: Santa Monica, CA	89,736	<a href="http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf">http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf</a>

Sustainable City Plan Revised 2006	City: Santa Monica, CA	89,736	<a href="http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf">http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf</a>
Sustainable City Plan Revised 2006	City: Santa Monica, CA	89,736	<a href="http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf">http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf</a>
Sustainable City Plan Revised 2006	City: Santa Monica, CA	89,736	<a href="http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf">http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf</a>
Sustainable City Plan Revised 2006	City: Santa Monica, CA	89,736	<a href="http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf">http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf</a>



2010 Indicators Report	County: San Mateo County, CA	718,451	<a href="http://www.sustainablesanmateo.org/indicators-report/">http://www.sustainablesanmateo.org/indicators-report/</a>
2010 Indicators Report	County: San Mateo County, CA	718,451	<a href="http://www.sustainablesanmateo.org/indicators-report/">http://www.sustainablesanmateo.org/indicators-report/</a>
State of the Bay Area: A Regional Report 2004	Region: Bay Area Alliance for Sustainable Indicators	7,468,390	<a href="http://www.bayareaalliance.org/indicators.pdf">http://www.bayareaalliance.org/indicators.pdf</a>

State of the Bay Area: A Regional Report 2004	Region: Bay Area Alliance for Sustainable Indicators	7,468,390	<a href="http://www.bayareaalliance.org/indicators.pdf">http://www.bayareaalliance.org/indicators.pdf</a>
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Orange County 2011 Community Indicators	County: Orange County, CA	3,010,232	<a href="http://egov.ocgov.com/vgnfiles/ocgov/CEO/Docs/2011%20Community%20Indicators.pdf">http://egov.ocgov.com/vgnfiles/ocgov/CEO/Docs/2011%20Community%20Indicators.pdf</a>
Orange County 2011 Community Indicators	County: Orange County, CA	3,010,232	<a href="http://egov.ocgov.com/vgnfiles/ocgov/CEO/Docs/2011%20Community%20Indicators.pdf">http://egov.ocgov.com/vgnfiles/ocgov/CEO/Docs/2011%20Community%20Indicators.pdf</a>

Orange County 2011 Community Indicators	County: Orange County, CA	3,010,232	<a href="http://egov.ocgov.com/vgnfiles/ocgov/CEO/Docs/2011%20Community%20Indicators.pdf">http://egov.ocgov.com/vgnfiles/ocgov/CEO/Docs/2011%20Community%20Indicators.pdf</a>
Orange County 2011 Community Indicators	County: Orange County, CA	3,010,232	<a href="http://egov.ocgov.com/vgnfiles/ocgov/CEO/Docs/2011%20Community%20Indicators.pdf">http://egov.ocgov.com/vgnfiles/ocgov/CEO/Docs/2011%20Community%20Indicators.pdf</a>

Greener Glendale 2010 Report	City: Glendale, CA	191,719	<a href="http://www.grenerglen dale.org/pdf /GreenerGlendale2010R eportFINAL. pdf">http://www.grenerglen dale.org/pdf /GreenerGlendale2010R eportFINAL. pdf</a>
The State of the Region 2007	Region: Southern California Association of Governments	18 million	<a href="http://www.scag.ca.gov/publications /pdf/2007/S OTR07/SOTR 07_FullRepo rt_lores.pdf">http://www.scag.ca.gov/publications /pdf/2007/S OTR07/SOTR 07_FullRepo rt_lores.pdf</a>
The State of the Region 2007	Region: Southern California Association of Governments	18 million	<a href="http://www.scag.ca.gov/publications /pdf/2007/S OTR07/SOTR 07_FullRepo rt_lores.pdf">http://www.scag.ca.gov/publications /pdf/2007/S OTR07/SOTR 07_FullRepo rt_lores.pdf</a>

<p>The State of the Region 2007</p>	<p>Region: Southern California Association of Governments</p>	<p>18 million</p>	<p><a href="http://www.scag.ca.gov/publications/pdf/2007/SOTR07/SOTR07_FullReport_lores.pdf">http://www.scag.ca.gov/publications/pdf/2007/SOTR07/SOTR07_FullReport_lores.pdf</a></p>
<p>The State of the Region 2007</p>	<p>Region: Southern California Association of Governments</p>	<p>18 million</p>	<p><a href="http://www.scag.ca.gov/publications/pdf/2007/SOTR07/SOTR07_FullReport_lores.pdf">http://www.scag.ca.gov/publications/pdf/2007/SOTR07/SOTR07_FullReport_lores.pdf</a></p>
<p>2011 San Diego Regional Quality of Life Dashboard</p>	<p>Region: San Diego Regional</p>	<p>3,095,313</p>	<p><a href="http://www.equinoxcenter.org/assets/images/Indicators/complete-2010-regional-dashboard-report%20.pdf">http://www.equinoxcenter.org/assets/images/Indicators/complete-2010-regional-dashboard-report%20.pdf</a></p>

2011 San Diego Regional Quality of Life Dashboard	Region: San Diego Regional	3,095,313	<a href="http://www.equinoxcenter.org/assets/images/Indicators/complete-2010-regional-dashboard-report%20.pdf">http://www.equinoxcenter.org/assets/images/Indicators/complete-2010-regional-dashboard-report%20.pdf</a>
Tuolumne County Profile 2008 Community Indicators Project	County: Tuolumne County, CA	55,365	<a href="http://www.tuolumnecountyprofile.org/">http://www.tuolumnecountyprofile.org/</a>
Indicators NW	State		<a href="http://www.indicatorsnorthwest.org/DrawRegion.aspx?RegionID=53000&amp;IndicatorID=100039">http://www.indicatorsnorthwest.org/DrawRegion.aspx?RegionID=53000&amp;IndicatorID=100039</a>
Indicators NW	State		<a href="http://www.indicatorsnorthwest.org/DrawRegion.aspx?RegionID=53000&amp;IndicatorID=19">http://www.indicatorsnorthwest.org/DrawRegion.aspx?RegionID=53000&amp;IndicatorID=19</a>
Indicators NW	State		<a href="http://www.indicatorsnorthwest.org/DrawRegion.aspx?RegionID=53000&amp;IndicatorID=100015">http://www.indicatorsnorthwest.org/DrawRegion.aspx?RegionID=53000&amp;IndicatorID=100015</a>



Indicators NW	State	<a href="http://www.indicatorsnorthwest.org/DrawRegion.aspx?RegionID=53000&amp;IndicatorID=100014">http://www.indicatorsnorthwest.org/DrawRegion.aspx?RegionID=53000&amp;IndicatorID=100014</a>
Indicators NW	State	<a href="http://www.indicatorsnorthwest.org/DrawRegion.aspx?RegionID=53000&amp;IndicatorID=20">http://www.indicatorsnorthwest.org/DrawRegion.aspx?RegionID=53000&amp;IndicatorID=20</a>
Missoula Measures		<a href="http://www.co.missoula.mt.us/measures/Social/childrenyouth.htm">http://www.co.missoula.mt.us/measures/Social/childrenyouth.htm</a>
Missoula Measures	city/county	<a href="http://www.co.missoula.mt.us/measures/Social/HomeOwner.htm">http://www.co.missoula.mt.us/measures/Social/HomeOwner.htm</a>
Missoula Measures		<a href="http://www.co.missoula.mt.us/measures/Social/HomelessGraphs.htm">http://www.co.missoula.mt.us/measures/Social/HomelessGraphs.htm</a>
Missoula Measures		<a href="http://www.co.missoula.mt.us/measures/Social/HousingShelter.htm">http://www.co.missoula.mt.us/measures/Social/HousingShelter.htm</a>

Anchorage Community Assessment Project	city/county		<a href="http://www.appliedsurveyresearch.org/www/products/2006%20Anchorage%20CAP%20Final%20Report%2003.pdf">http://www.appliedsurveyresearch.org/www/products/2006%20Anchorage%20CAP%20Final%20Report%2003.pdf</a>
Anchorage Community Assessment Project	City		<a href="http://www.appliedsurveyresearch.org/www/products/2006%20Anchorage%20CAP%20Final%20Report%2003.pdf">http://www.appliedsurveyresearch.org/www/products/2006%20Anchorage%20CAP%20Final%20Report%2003.pdf</a>
Anchorage Community Assessment Project	City		<a href="http://www.appliedsurveyresearch.org/www/products/2006%20Anchorage%20CAP%20Final%20Report%2003.pdf">http://www.appliedsurveyresearch.org/www/products/2006%20Anchorage%20CAP%20Final%20Report%2003.pdf</a>
Siemens			

Siemens		<a href="http://www.siemens.com/entry/cc/features/greencityindex-international/all/en/pdf/report_northamerica_en.pdf">http://www.siemens.com/entry/cc/features/greencityindex-international/all/en/pdf/report_northamerica_en.pdf</a>
Siemens		<a href="http://www.siemens.com/entry/cc/features/greencityindex-international/all/en/pdf/report_northamerica_en.pdf">http://www.siemens.com/entry/cc/features/greencityindex-international/all/en/pdf/report_northamerica_en.pdf</a>

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Tim	page 9
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Tim	page 15
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## Healthy Local Food

Indicator	Unit of Measurement	Target
Organic Foods ACTION: Support the public health and environmental benefits of locally grown organic foods. Ensure that 20% of all City facilities (including schools) serve locally grown and organic food by 2012.		
Percent of locally grown produce served at City-sponsored events		
Percent of organically grown produce served at City-sponsored events		
Percent of locally grown produce served at City-owned and -operated facilities		
Percent of organically grown produce served at City-owned and -operated facilities		
Percent of locally grown produce served at PUSD schools		
Percent of organically grown produce served at PUSD schools		

Special event permits issued		
Special event permits including locally grown, organic food requirements of vendors		
Restaurants citywide		
Percent of Pasadena restaurants that serve organic food		
Pasadena Farmers Markets		
Fresh, Local, Organic produce	% served at city facilities and other institutions (schools, colleges, and city-sponsored food programs)	Increasing %
Organic Produce at farmers markets	% organic, % grown using low-chemical methods, % conventionally grown	Increasing % of organic and low-chemical method

Restaurant Produce Purchases	% of restaurants that purchase ingredients from city farmers markets	Increasing %
Food Choices	% of residents who report vegetable-based protein as primary protein source for at least half of their meals	Increasing %
Acres of organic farmland		
Number of public agricultural gardens		Up
Number of school, vocational and community education and training programs about sustainable agriculture and nutrition		Up

Action: Healthy Food Systems - Locally grown organic foods		twenty percent of all city facilities (including schools) serve locally-grown and organic foods within seven years.
Percent of Region that is in a Food Desert		

Method of Measurement	Data Source	Why is this important?	Source Principle Heading
			Environmental Health
			Environmental Health - Organic Foods
			Environmental Health - Organic Foods
			Environmental Health - Organic Foods
			Environmental Health - Organic Foods
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			Environmental Health - Organic Foods
			Environmental and Public Health - Program Level
			Environmental and Public Health - Program Level

			Environmental and Public Health - Program Level
			Environmental and Public Health - Program Level
			Pesticide Use
			Food and Agriculture
			Food and Agriculture







Green City Indicator Report 2010 Pasadena	City: Pasadena, CA	137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA	137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA	137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA	137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA	137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>
Sustainable City Plan Revised 2006	City: Santa Monica, CA	89,736	<a href="http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf">http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf</a>
Sustainable City Plan Revised 2006	City: Santa Monica, CA	89,736	<a href="http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf">http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf</a>

Sustainable City Plan Revised 2006	City: Santa Monica, CA	89,736	<a href="http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf">http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf</a>
Sustainable City Plan Revised 2006	City: Santa Monica, CA	89,736	<a href="http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf">http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf</a>
2010 Indicators Report	County: San Mateo County, CA	718,451	<a href="http://www.sustainablesanmateo.org/indicators-report/">http://www.sustainablesanmateo.org/indicators-report/</a>
Sustainability Plan 1996	City: San Francisco, CA	3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf">http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf</a>
Sustainability Plan 1996	City: San Francisco, CA	3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf">http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf</a>



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## Community Knowledge

Indicator	Unit of Measurement	Target
Environmental Ethic	environmental knowledge, attitude, and behavior	
Graduation Rates	percent of high school seniors graduating from high school	
Number of students trained for jobs that are available in the local economy -or-number of students who go to college and come back to	Percent of students out of total student population	
Voting Participation	See method.	

Education	Per-pupil expenditure, percentage of students planning to attend college, educational attainment	
Higher Degree Attainment	percentage of residents age 25+ with higher degree	The percentage of Maine residents age 25 and over with a higher degree will increase to at least the New England average by 2020
Labor Force Participation Rate	Percent of students out of total student population	
Unemployment Rate	Annual Percent	
Pay Equity by Ethnicity	Percent of European Earnings	
Labor Productivity	Output per Worker	
Education Entertainment of the Adult Population	Percent	
Participation in Tertiary Education	Percent	
Literacy Skills	Percent	

Access to how to early childhood education	Percent	
Human Capital Indicator	percentage of workforce population with educational qualifications beyond secondary school	
Job related training educational attainment, adult and student literacy rates, university participation	Percent	
Standard of living, family/retirement income, low income persistence, new worth	GDP, US dollars	
Family life	infant mortality (per 1000 live births), marriages, divorces, age of mother at childbirth, young adults living with parents	
Housing Need (housing starts, rental vacancy rates, homeless shelters and beds)	% core housing need, % affordability problems	

Social Participation/sense of belonging	% participation politically, in school activities, volunteering/scale of belonging, trust in others	
Leisure Time	Hours active and passive leisure time	
<b>Health</b> (life expectancy at birth, self-rated health, self-rated mental health, low birth weight, mortality from leading disease, smoking, obesity, physical activity, regular doctor visits, patient satisfaction)	variable - based on indicator	
Security (crime rates, victims of violent/property crime, perceptions of police and safety)	variable, scale	
Voter Participation: % of registered voters who vote; compare to regional and national levels.		Increase to 50% in off
Civic Affairs Participation: % of residents who have attended a city-sponsored meeting in last year: incl. City Council, City Commission, or special topic workshops		Upward trend
% of residents who feel that they have the opportunity to voice their concerns in the city on major community decisions that affect their lives		Upward trend
% of residents who attend community events (incl. festivals, neighborhood block parties, and weekly farmers' market)		Upward trend

% of residents volunteering and total hours volunteered in selected City-funded public benefit programs		Upward trend
% of residents that are active members in recognized neighborhood organizations (by neighborhood)		Upward trend
% of residents who are aware of the Ecological Footprint and understand their contribution to it		25% by 2010
% of residents who have an understanding of how each Sustainable City goal area is a component of a sustainable community and the extent to which this affects their decisions		Upward trend
Percent of schools meeting Academic Performance Index (API)		Upward trend
Median API score by student characteristics (socioeconomic)		all children receive the
Annual expenditures per student by school district		measures value of edu
Percent of high school graduating class that met local univer		Upward trend
Percent of teachers fully credentialed		Upward trend
Pupil-to-teacher ratio		Downward trend
% of residents eligible to vote who are registered to vote		
% of registered voters who vote		
Educational Performance	% of students scoring at or above the 50th N	
Per pupil spending	Inflation-adjusted expenditure per pupil	
Voter Participation	% of population who voted in general electio	
Diversity of Officials	% of county supervisors who are African Ame	
Public awareness of hazardous materi	Annual survey (to me	Up
Participation of historically disadvantaged communities as a		Up
Number of schools that integrate and progressively update e		Up
Conservation and waste reduction as measured by volume o		Down
Number of volunteers working on environmental projects as		Up
Voter Registration and Voter Turnout		
Academic Performance Index (API) per school		The statewide API per
Internet Access	Percentage of adults who have access to the	
Technology Workforce Preparation	Upper Level Math and Science Course Enrollr	
Technology-Related Degrees	Number of tech-related degrees conferred at	
College Readiness	Percent of High School Graduates Eligible for	
Academic Performance	Percentage of schools meeting No Child Left	

English Learners	Public school enrollment of English Learners	
Voter Participation	Percentage of Mid-Term Election Turnout An	
Census Participation	Percentage of residents who mail-back the ce	
Educational Attainment	Four-year dropout rate for grades 9-12; Perc	
Career Preparation	Colleges: Technical Skill Atainment rate (earn	
Education	1) test scores for seventh grade, 2) high scho	
Early Childhood education	Number of available child care spaces, estima	
Quality of basic education test scores	% of students passing high school exit exam,	
Quality of basic education high school	% of students taking SAT, % meeting local col	
education of adults	number of adults participating in formal edu	
reading habits	reading quotient = # of books owned by libra	
communications	penetration of cable television, broadband s	
Heritage & its impact	# of people who sign registers at local museu	
Volunteerism/ Neighborhood involver	% of residents participating in volunteering o	
PTA	Total PTA membership	
teacher quality	% of credentialed teachers	
truancy	% of truant students	
Number of active, cohesive neighborhoods	The number of neighborhoods registered with the Citizen and Attendance at	
Participation rates in community meetings	community meetings	
Percent of citizens rating local government as responsive		
Number of pedestrians in neighborhoods		
Neighborhood crime rates		
Percent of people who feel safe in their neighborhood		

Volunteerism among youth		
Time spent with family		
Percentage of employees with health benefits		
Incidence of referrals to Child Protective Services		
Level of participation by parents in schools		
Level of participation by parents in schools		
Community satisfaction with public education		
High School Drop Out Rate		
Percent of hiring from local job pool		
Attendance at libraries and museums		



Number of pedestrians in neighborhoods		
Use of alternative means of travel		
Number of gathering places and people using them		
Percentage of residences located within half a mile of a market		
Number of historical sites		
Dollars invested to restore older or abandoned buildings		
Number of people visiting historic and cultural sites		
Tourism rates		
Homeownership rates		

Income needed to support basic needs		
Per capita charitable giving		
Percentage of major employers headquartered in Tucson		
Percentage of employees with health benefits		
Percentage of companies adding employees in the past year		
Duration of local businesses		
Number of residents who come downtown for entertainment		
Sales taxes from downtown businesses compared to City-wide sales taxes		
Percent residents that are literate about ecological land management		

Number of Sites on the National Register of Historical Places	Number of Sites	
Percentage of Voting Age Population Who Voted	Percent	
Adult Literacy	Percent	
Graduation Rates	Percent	
High school Graduation	Percent	
Sense of Safety	Percent	

Voter Turnout	Percent	
Voter turnout as percent of eligible voters		
High School Graduation Rates		
Government spending on early education: K-8		
Volunteer Rates		
Rates of mental illness per 1000 populations (issue of undiagnosed, of changes of definition in DSM)		

Work Time (extreme working hours,  
50 a week or over, average annual  
hours of work, vacation days)

Teen Birth Rate

Teens unemployed and not in school

Educational Attainment

High School Dropout Rate

Student/Teacher Ratio

Number of physicians

Juvenile Arrests

Arrests/Total  
Juveniles

Number of police officers

Police/Total  
Population

% of kids 3-5 who were read to

% of children		
Youth Court intake hearings		
Demographics (race, age, density)		
High School Dropout Rate		
Adolscent Drinking		8.5% by 2020
Graduation Rates		

Dropout Rate

Reading by grade level (math,  
language, reading)

based on test scores

Students taking SAT/ACT

After-school activities



Connectedness among students	several questions	
Student/Teacher Ratio		
Percentage of Children Completing Primary and Secondary education		
percentage of school children enrolled in schools by gender		
Percentage of women employed in city government workforce		
Green action Plan	qualitative	

Green management

qualitative

Public participation in green policy

qualitative

Method of Measurement	Data Source	Why is this important?
random phone survey of adult residents' environmental knowledge, attitude, and behavior	Opinion survey done in Dubuque(?)	Survey may reveal a conflict between what we say our values are, relative to the natural environment, and our actual investment of time and money to protect and restore nature. Attitudes and awareness make a huge difference in overall environmental stewardship
look at number of students who are not able to make the final step out of high school, and who do not graduate, separate out Ged		in order to be competitive, a region needs a large pool of highly educated workers.
		Usually SAT and other standardized test scores would be used, but for a measure of
Number of adults (aged 18 and older) who are eligible to vote, the percentage of these who are registered to vote, and the percentage who		"Voting is one of the most basic rights of a democratic society. As voter participation declines, fewer people influence local decision-making. It

<p>amount of public expenditure invested in high school students, percentage of high school seniors planning on attending either a 2- or 4-year college after graduation, and educational attainment by resident age group</p>	<p>Educational attainment: census</p>	<p>"the greater our ability to educate our students, to provide them with the means to be economically successful, and to encourage them to utilize their skills, the greater our ability to be self-sustaining."Participation in democratic process</p>
	<p>Census, American Community Survey</p>	<p>Higher education is a critical factor in Maine's economic development. An educated workforce is central to Maine's competitiveness in an era of rapid knowledge</p>

	The Sustainability Report	
	Statistics Canada	
	Statistics Canada	
	Statistics Canada	
	Statistics Canada	

	Statistics Canada	
	Statistics Canada	
	Statistics Canada	
	Statistics Canada	
year elections by 2010		





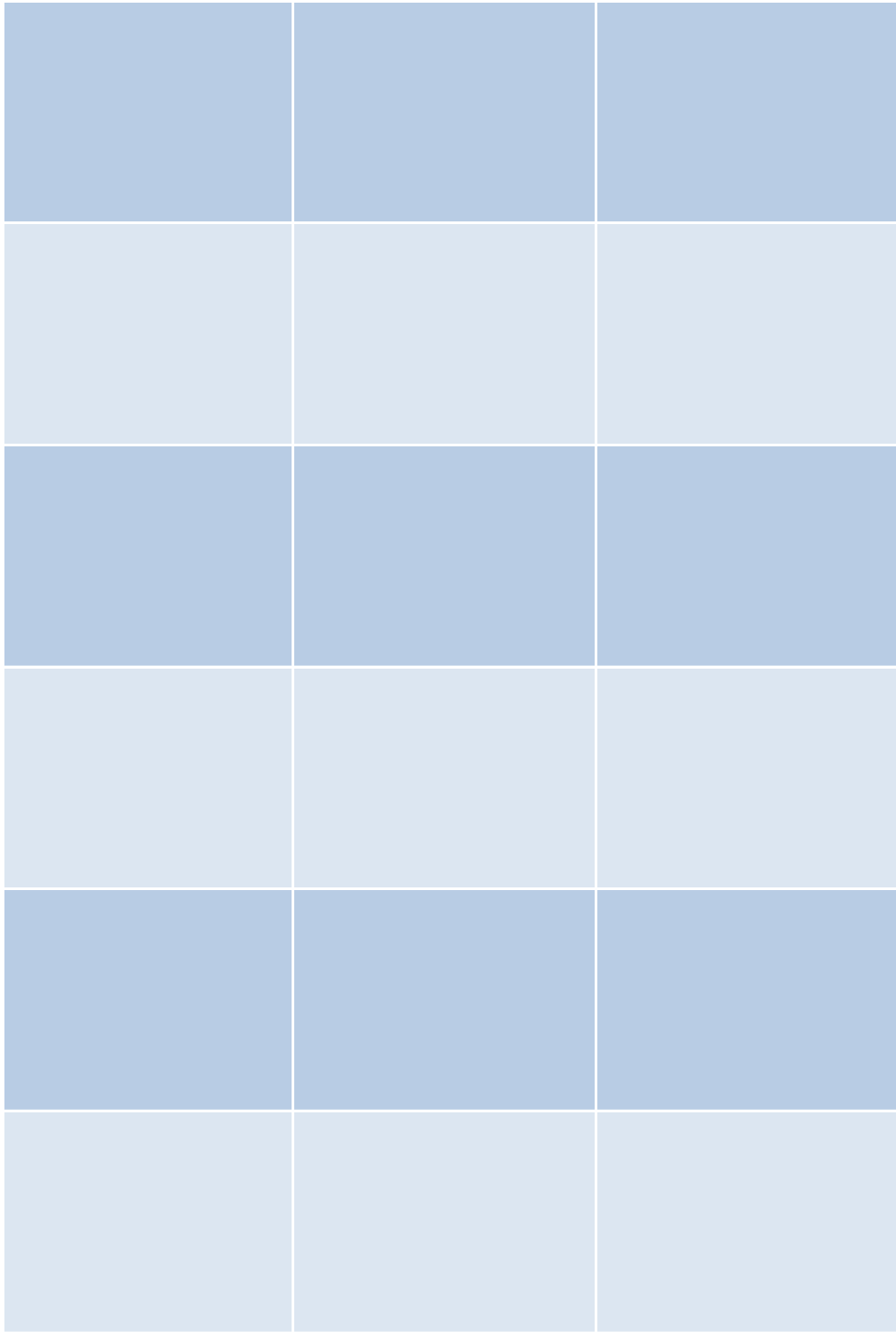




	Trained observers from community organizations can help conduct these "people counts".	
	Pima County Association of Governments/Transportation Planning Division	
	Staff is researching the best way to collect and report the data for this Indicator. Parks and recreation agencies and other providers should be able to supply these figures	
	Arizona International College analysis using Geographic Information Systems	
	Staff is researching the best way to collect and report the data for this Indicator	

	United Way Campaign figures, divided by total County population.	
	Arizona Daily Star 200 listings of all major employers, with subtotals for businesses and government/non-profit organizations and City Planning Department	
	Resident Survey	
	Business survey	
The number or percentage of local businesses that were established three years ago that are still in business today		
	City of Tucson Revenue Division records	

		Helps to gauge the success of maintaining the character of the community.
The number of people who are of age to vote (18 and older), registered to vote and who actually voted	Census	Helps to measure civic engagement and citizens expressing their political choices.
		Relates to active participation for adults in the workforce and society.
Percent of high school students who graduate out of the total population of students who attempt too.		Students have the skills to then work or achieve higher education levels. Brings competitiveness and knowledge to the state.
		When community members feel safe, they are more likely to be involved in the community and feel connected. Has remained constant since the mid-1990s where the people of Minnesota feel safe all of the time.



	State Health and Human Services	
	US Census	
	US Census	
	National Center for Educational Statistics (NCES)	

National Center for  
Educational Statistics  
(NCES)

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US Dept. of Education

	US Census	
	Youth Court	
	US Census	
	Missoula County Public schools	
	Montana YRBS Trend Data	



subjective response of parents	telephone survey	

subjective responses of students/parents

measure of the rigor of a city's green action plan.

measure of the  
extensiveness of  
environmental  
managem4nt  
undertaken by the ciyt.

measure of a city's  
efforts to involve the  
public in monitoring tis  
environmnetal  
performance.

Source Principle Heading	Indicator Source	City, State, National	Population
Nature: Regional Goals	Sustainable Pittsburgh	Regional	
Society: Regional Goals	Sustainable Pittsburgh	Regional	
Social Indicators	Sustainability indicators 101	General	N/A
Social Indicators, Civic Vitality	Sustainability indicators 101, <a href="http://sustaincapecod.org">sustaincapecod.org</a>	General	N/A

Education	SustainCapeCod	Region; Cape Cod	215000
Economy: Skilled and Educated Workers	Measures of Growth in Focus 2010	State: Maine	
Work, Knowledge, and Skill	Statistics New Zealand	National - New Zealand	
Work, Knowledge, and Skill	Statistics New Zealand	National - New Zealand	
Work, Knowledge, and Skill	Statistics New Zealand	National - New Zealand	
Work, Knowledge, and Skill	Statistics New Zealand	National - New Zealand	
Work, Knowledge, and Skill	Statistics New Zealand	National - New Zealand	
Work, Knowledge, and Skill	Statistics New Zealand	National - New Zealand	
Work, Knowledge, and Skill	Ministry of Education	National - New Zealand	

Work, Knowledge, and Skill	Ministry of Education	National - New Zealand	
Canada's Sustainable Indicators Initiative	Sustainability Reporting Program	National - Canada	
Well-being Indicators	Human Resource and Skills Development in Canada	National - Canada	
Well-being Indicators	Human Resource and Skills Development in Canada	National - Canada	
Well-being Indicators	Human Resource and Skills Development in Canada	National - Canada	
Well-being Indicators	Human Resource and Skills Development in Canada	National - Canada	

Well-being Indicators	Human Resource and Skills Development in Canada	National - Canada	
Well-being Indicators	Human Resource and Skills Development in Canada	National - Canada	
Well-being Indicators	Human Resource and Skills Development in Canada	National - Canada	
Well-being Indicators	Human Resource and Skills Development in Canada	National - Canada	
Community Education & Civic	Sustainable City Plan Revised 200	City: Santa Monica,	89,736
Community Education & Civic	Sustainable City Plan Revised 200	City: Santa Monica,	89,736
Community Education & Civic	Sustainable City Plan Revised 200	City: Santa Monica,	89,736
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Community Education & Civic	Sustainable City Plan Revised 200	City: Santa Monica,	89,736
Education	2010 Indicators Report	County: San Mateo	718,451
Education	2010 Indicators Report	County: San Mateo	718,451
Education	2010 Indicators Report	County: San Mateo	718,451
Education	2010 Indicators Report	County: San Mateo	718,451
Education	2010 Indicators Report	County: San Mateo	718,451
Education	2010 Indicators Report	County: San Mateo	718,451
Voter Participation	2010 Indicators Report	County: San Mateo	718,451
Voter Participation	2010 Indicators Report	County: San Mateo	718,451
Educational System	State of the Bay Area: A Regional	Region: Bay Area Al	7,468,390
Educational System	State of the Bay Area: A Regional	Region: Bay Area Al	7,468,390
Civic Engagement	State of the Bay Area: A Regional	Region: Bay Area Al	7,468,390
Civic Engagement	State of the Bay Area: A Regional	Region: Bay Area Al	7,468,390
Hazardous Materials	Sustainability Plan 1996	City: San Francisco,	3.2 M urban,
Environmental Justice	Sustainability Plan 1996	City: San Francisco,	3.2 M urban,
Public Information and Educ	Sustainability Plan 1996	City: San Francisco,	3.2 M urban,
Public Information and Educ	Sustainability Plan 1996	City: San Francisco,	3.2 M urban,
Public Information and Educ	Sustainability Plan 1996	City: San Francisco,	3.2 M urban,
Voter Registration and Turno	Community Report Card 2010-20	City: Rocklin, CA	56,974
Academic Performance	Community Report Card 2010-20	City: Rocklin, CA	56,974
Technology and Innovation	Orange County 2011 Community	County: Orange Cou	3,010,232
Technology and Innovation	Orange County 2011 Community	County: Orange Cou	3,010,232
Technology and Innovation	Orange County 2011 Community	County: Orange Cou	3,010,232
Education	Orange County 2011 Community	County: Orange Cou	3,010,232
Education	Orange County 2011 Community	County: Orange Cou	3,010,232



Education	Orange County 2011 Community	County: Orange Co	3,010,232
Civic Engagement	Orange County 2011 Community	County: Orange Co	3,010,232
Civic Engagement	Orange County 2011 Community	County: Orange Co	3,010,232
Education	Orange County 2011 Community	County: Orange Co	3,010,232
Education	Orange County 2011 Community	County: Orange Co	3,010,232
Quality of Life	The State of the Region 2007	Region: Southern C	18 million
Education & Learning	Tuolumne County Profile 2008 Cc	County: Tuolumne	55,365
Education & Learning	Tuolumne County Profile 2008 Cc	County: Tuolumne	55,365
Education & Learning	Tuolumne County Profile 2008 Cc	County: Tuolumne	55,365
Education & Learning	Tuolumne County Profile 2008 Cc	County: Tuolumne	55,365
Education & Learning	Tuolumne County Profile 2008 Cc	County: Tuolumne	55,365
Economy & Infrastructure	Tuolumne County Profile 2008 Cc	County: Tuolumne	55,365
Arts & Heritage	Tuolumne County Profile 2008 Cc	County: Tuolumne	55,365
Community Participation	Community Well Being: Indicator	Region: Great Cent	6.5 million
Organizational Capacity	Community Well Being: Indicator	Region: Great Cent	6.5 million
Education	Education and Youth Preparedne	Region: Great Cent	6.5 million
Education	Education and Youth Preparedne	Region: Great Cent	6.5 million
Engaged Community and Responsive Government	Tucson Arizona Government(Livable Tucson Goals)		520,795
Engaged Community and Resnonsive Government	Tucson Arizona Government(Livable Tucson Goals)		520,795
Engaged Community and Responsive Government	Tucson Arizona Government(Livable Tucson Goals)		520,795
Safe Neighborhoods	Tucson Arizona Government(Livable Tucson Goals)		520,795
Safe Neighborhoods	Tucson Arizona Government(Livable Tucson Goals)		520,795
Safe Neighborhoods	Tucson Arizona Government(Livable Tucson Goals)		520,795



People Oriented Neighborhoods	Tucson Arizona Government(Livable Tucson Goals)		520,795
People Oriented Neighborhoods	Tucson Arizona Government(Livable Tucson Goals)		520,795
People Oriented Neighborhoods	Tucson Arizona Government(Livable Tucson Goals)		520,795
People Oriented Neighborhoods	Tucson Arizona Government(Livable Tucson Goals)		520,795
Respected Historic and Cultural Resources	Tucson Arizona Government(Livable Tucson Goals)		520,795
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Respected Historic and Cultural Resources	Tucson Arizona Government(Livable Tucson Goals)		520,795
Respected Historic and Cultural Resources	Tucson Arizona Government(Livable Tucson Goals)		520,795
Reduced Poverty and Greater Equality of Opportunity	Tucson Arizona Government(Livable Tucson Goals)		520,795

Reduced Poverty and Greater Equality of Opportunity	Tucson Arizona Government(Livable Tucson Goals)		520,795
Reduced Poverty and Greater Equality of Opportunity	Tucson Arizona Government(Livable Tucson Goals)		520,795
Strong Local Business	Tucson Arizona Government(Livable Tucson Goals)		520,795
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Strong Local Business	Tucson Arizona Government(Livable Tucson Goals)		520,795
Strong Local Business	Tucson Arizona Government(Livable Tucson Goals)		520,795
Sucessful Downtown	Tucson Arizona Government(Livable Tucson Goals)		520,795
Sucessful Downtown	Tucson Arizona Government(Livable Tucson Goals)		520,795
Biodiversity/Ecosystem Health	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2007		

Land Use	Metro Pulse: Chicago	Regional	
Civic Involvement	Metro Pulse: Chicago	Regional	
Workforce	Metro Pulse: Chicago	Regional	
A Vital Community	Minneapolis Sustainability Indicators and Numerical Targets	Regional	
People	Minnesota Milestones	State-Minnesota	
Community and Democracy	Minnesota Milestones	State-Minnesota	

Community and Democracy	Minnesota Milestones	State-Minnesota	
Governance	Sustainable Seattle	City	
Education	Sustainable Seattle	City	
Education	Sustainable Seattle	City	
Community Vitality	Sustainable Seattle	City	
Psychological Health	Sustainable Seattle	city	

Time Balance	Sustainable Seattle	City	
Family/Kids	Indicators Northwest	State	
Family/Kids	Indicators Northwest	State	
Education	Indicators Northwest	State	
Education	Indicators Northwest	State	

Education	Indicators Northwest	State	
Health	Indicators Northwest	State	
Crime and Safety	Indicators Northwest	State	
Crime and Safety	Indicators Northwest	State	
Social Topics	Missoula Measures	State	



Social Topics	Missoula Measures	State	
Social Topics	Missoula Measures		
Social Topics	Missoula Measures		
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Social Topics	Missoula Measures		
Education	Anchorage Community Assessment Project		

Education	Anchorage Community Assessment Project		
Education	Anchorage Community Assessment Project		
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Education	Anchorage Community Assessment Project		

Education	Anchorage Community Assessment Project		
City Services: Education	(Global City Indicators Facility 2009);Assessing sustainability.a guide for local government,M Feiden and E. Hamin		
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City Services: Education	(Global City Indicators Facility 2009);Assessing sustainability.a guide for local government,M Feiden and E. Hamin		
City Services: Governance	(Global City Indicators Facility 2009);Assessing sustainability.a guide for local government,M Feiden and E. Hamin		
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Link or Citation	Your Name	Notes
<a href="http://www.sustainablepittsburgh.org/pdf/2004Indicators.pdf">http://www.sustainablepittsburgh.org/pdf/2004Indicators.pdf</a>	Lindsay S.	
<a href="http://www.sustainablepittsburgh.org/pdf/2004Indicators.pdf">http://www.sustainablepittsburgh.org/pdf/2004Indicators.pdf</a>	Lindsay S.	
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<a href="http://www.sustaincapecod.org/indicators/Education">http://www.sustaincapecod.org/indicators/Education</a>	Lindsay s	
<a href="http://www.mdf.org/publications/Measures-of-Growth-in-Focus-2010/211/">http://www.mdf.org/publications/Measures-of-Growth-in-Focus-2010/211/</a>	Lindsay S	
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Reasonable Mobility

Indicator	Unit of Measurement	Target
Efficient, Equitable Land Use	Percent change in land consumed	
Crime	rate of adult violent and property crime for the past 10 years, and juvenile crime for the past 5 years, trend	
Vehicle Miles Traveled by Road	km (billion), by fuel type, age, and vehicle type	
Road Freight Transport Intensity of the Economy	Ratio of road freight tonne-kilometers to GDP	
Total public transport boardings per person	Number of Boardings	
Number of International Flights per week	Number of Flights	
Proportion of population in employment walking or biking to work	Change in trends of transport to work (percent)	
Traffic Congestion and Transit Use Transportation and Mobility	The Traffic Congestion Indicator measures average annual daily bridge crossings over the Sagamore and Bourne bridges; data is available for	
# of kilometers of high occupancy vehicle lanes/km making up transit priority network		
km bikeways per year, km of new sidewalk per year		

Public Transportation ACTION: Expand affordable public transportation coverage to within 1/2 kilometer of all City residents by		100%
Percent of residents within 1/2 mile of public transit		
Percent of businesses within 1/2 mile of public transit		
Number of public transit routes by all agencies (Metro; Foothill Transit; Pasadena ARTS)		
Metro bus service daily directional miles		
Pasadena ARTS bus service daily directional miles		
Foothill Transit service daily directional miles		
Total directional miles of all transit services citywide		
Number of bus stops		
Number of trips by type	Sustainable (bus, bike, pedestrian, rail) vs. other	Increasing % of sustainable
Average vehicle ridership (AVR) of businesses with over 50 employees		AVR of 1.5 by 2010

Residential use of sustainable transportation options	% of residents who have chosen a sustainable method instead of a car for their trip in the last month	Increasing %
Sufficiency of Transportation Options	% of residents who perceive that the available sustainable modes of transportation meet their needs	Increasing %
% of total miles of city arterial streets with bike lanes		35% by 2010
Total miles of bike paths		No net decrease
Average number of vehicles per person of driving age		10% reduction of avg. number of vehicles per person by 2010
% of total vehicles that are qualified low emission / alternative fuel vehicles		Upward trend
Bus ridership	Annual ridership, % of residents who have ridden in the last year	Upward trend
% of City's non-emergency fleet vehicles using alternative fuels	By department	TBD
# of signalized intersections with unacceptable motor vehicle congestion (LOS D, E or F) during peak hours		Downward trend
Level of service (LOS) for sustainable modes of transportation at impacted intersections		Upward trend
Local streets that exceed City thresholds for traffic levels		Downward trend
Pedestrian and Bicycle Safety	# of bicycle and pedestrian collisions involving motor vehicles	Downward trend



Average emergency response times for public safety vehicles	police and fire	No upward trend
Jobs/Housing Balance	Ratio of # of jobs to amount of housing	Ratio should approach 1
Jobs/Housing Balance	Percent of city residents employed in city	Upward trend
Local Employment by city staff: Percent of city employees who live in city		no target
Distance city employees travel to work		no target
Total on-road fuel consumption		
Per capita on-road fuel consumption		
VMT on jurisdiction's roadways		
Average vehicle fuel economy in the jurisdiction		
Commuting:	% of residents who drive alone to work, average commute trip length,	
Average weekday ridership on public transit		
Commuting	% of commuters who drive alone, carpool, take public transit; change in commute time since 1993	

Vehicle Miles Traveled	Average Daily VMT (DVMT) per capita	
Public Transit Ridership	Total ridership; percent who use transit to commute	
VMT per person		
% of trips in single occupancy vehicles		
Carpool levels (as a % of total trips)		
Auto Registration		Down
Parking-spot Inventory		Down
Transit Ridership		Up
Transit running time on key routes		Down
Percentage of people employed in the city who live in the city		Up
Total number of traffic collisions per 1,000 residents per year		
Sustainable Transportation Practices	Daily total vehicle miles traveled on public roads per capita, public transit usage, and Alternative Fuel Vehicle (AFV) registrations per 100,000 of all	

Mobility	Commute times, residents' primary mode of travel to work, and hours of delay due to congestion on Orange County freeways	
Transit	Ridership and operating costs per boarding	
Action: Clean Vehicles - Reduce Vehicle Air Pollution		Phase down sulfur levels in diesel and gasoline fuels, concurrent with
Action: Public Transportation		Expand affordable public transportation coverage to within
Action: Reducing Congestion - Reduce single occupancy vehicle (SOG) commute trips		reduce the percentage of commute trips by single occupancy
Journey to Work: Mode Choices	Mode choice to work for workers 16 and over (drove alone, carpooled, transit, walked, other means, worked at home)	
Journey to Work: Travel Time	Average travel time to work in minutes	
Transit Use and Performance	Total number of transit boardings; number per capita	
Highway Use and Congestion	Peak period travel time index: The ratio of peak period travel time to free flow travel time; VMT per household	
Highway Fatalities	Total number of highway accident fatalities; Number per 100 million VMT	
Airports/Ports	# air passenger traffic; Tons of port cargo	
Vehicle Miles Traveled	VMT per capita	

Transit Ridership	% of population that commutes to work via public transit	
motor vehicle safety	Fatality and injury rates per 100,000 population; total number of fatal and injury collisions	
transportation	Pavement condition by % (excellent, good, fair, poor, very poor)	
vehicle hours of delay	The amount of time it takes to travel a freeway during peak times compared to the time it takes to travel the same distance at 35 miles	
Percent Walking Routes Meeting Safety Standards of Walkability		
Percent bicycle routes meeting Safety standards of bike-ability		
Percent of new residential or business development within 1/4 mile of a transits top		
Use of alternative means of travel		
Ratio of miles of quality pedestrian and bike paths and bus routes to total lane miles of roads		
Number of pedestrians in neighborhoods		
Number of People Using Public Transportation	Percent change in number of public transit users	

Violent Crime Rate in the Region	Percent of crime rates	
Average Number of Vehicles per Household	Bumber of Vehicles	
Jobs Located Near Affordable Housing	Number of jobs within a 30 minute travel time of block groups. Percent.	
Pedestrian Environment Factor	Measures non-motorized transportation	
Communities with Safe Routes to School Programs or Plans	Number of safe routes	
Biking	Miles/Number of Bikers	<ul style="list-style-type: none"> <li>• Increase on-street lanes and off-street trails by a combined 55 miles from 2008</li> </ul>
Violent and Property Crime	Percent. Number of cases per 100,000 residents.	
Commute time (mean commute time)		
Bicycling--Journey to work by different modes		For 2010: 2% of adults bicycle to do errands if the distance is less than
Percent of adults who engage in moderate aerobic activity		Goal listed
Percent of crashes alcohol related		
Vehicle Miles Traveled		

Riding the bus (ridership rates)		
Miles of trails		
DUI Arrests		
% of Students who meet health guidelines		
Seat belt-wearing rates		
Outdoor recreation opportunities	satisfaction	
Local Mobility and Passenger Transportation: <b>Percentage of Trips by Motorized Private Transport</b>		
Annual vehicle-kilometer estimated travelled per capita	thousand vehicle-kim/capita/year	
Total number of vehicles per capita	number/capita	

Reduce car use (VMT) Per capita

Increase transit, walk/bike and carpooling and decrease sole car use

Reduce average commute to and from work

Increase average speed of transit relative to cars

Increase service miles of transit relative to road provisions

Increase cost recovery on transit relative to road provisions

Increase cost recovery on transit from fares

Decrease parking spaces per 1000 workers in central business district

Increase miles of seperated cycleways

Share of workers travelling by public transit, bicycle or foot

quantitative - percent of workers travelling by public trasnit, bicycle or foot

Public transport supply

quantitative - evaluation of availability of public trasnport, including length of public transport network.

Average commute time from residence to work

quantitative - average commute time in minutes

Green transport promotion

quantitative - assessment of how extensively the city promotes public transport and offers incentives for less carbon intensive travel.

Congestion reduction policies

qualitative - assessments of city's efforts to reduce congestion.



Method of Measurement	Data Source	Why is this important?	Source Principle Heading
% change in the number of acres developed in the region between 1982-	USDA	Sprawl is a reckless driver of other trends away from sustainability. It	Nature: Regional Goals
		Lower crime rates translate to greater public safety (although perception plays a factor), and lack of	Society: Regional Goals
number of incidents of violent and property crimes per 100,000 people, each year, by adults and juveniles			Transport
			Transport
			Transport
			Transport
			Transport
trip counts		The amount of traffic also impacts the amount of road capacity needed, which	Traffic

			Transportation
			Transportation - Public Transportation
			Transportation - Public Transportation
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			Transportation - Public Transportation
			Transportation - Public Transportation
			Transportation - System Level
			Transportation - System Level



			Transportation - Program Level
			Economic Development - System Level
			Economic Development - System Level
			Economic Development - Program Level
			Economic Development - Program Level
		A sustainable state is one that is carbon neutral and where alternative fuels or	Transportation: Gasoline Use and Fuel Efficiency
			Transportation: Gasoline Use and Fuel Efficiency
			Transportation: Gasoline Use and Fuel Efficiency
			Transportation: Gasoline Use and Fuel Efficiency
		In a sustainable state, single occupancy vehicle trips decline over time in favor of	Transportation: Vehicle Travel and Public Transit
			Transportation: Vehicle Travel and Public Transit
	Bay Area Poll; Metropolitan Transit Commission Profile	The automobile is the most prevalent mode of commuting to work in the Bay Area	Transportation

	Metropolitan Transit Commission	High VMT exacerbates the region's traffic congestion and results in the attendant loss of Motor vehicles are a major source of environmental and health problems.	Transportation
			Public Transit
			Public Transit
			Public Transit
			Public Transit
			Transportation
			Transportation
			Transportation
			Transportation
			Economy and Economic Development
	As reported by police or citizens	Traffic safety is an important component of overall community safety. The monitoring	Traffic Collisions
	Sources: Caltrans, Public Road Data; U.S. Census Bureau, Supplementary Survey		Environment

	U.S. Census Bureau, American Community Survey 2009 (www.census.gov) and Orange County Transportation Authority (www.octa.net) and for	Long commutes impact personal lives and worker productivity due to the time lost in The ability of residents and workers to move efficiently within Orange County is	Economic and Business Climate
			Economic and Business Climate
			Transportation
			Transportation
			Transportation
	Source: U.S. Census Bureau, American Community Survey	Single-occupant vehicle use accounts for the highest level of land consumption among	Transportation
	Source: U.S. Census Bureau, 2000 Census, 2005 and 2006 American Community	Though the share of work trips among total trips has been declining, work trips	Transportation
	Source: National Transit Database and SCAG	Use of public transit helps to improve congestion and air quality and decrease	Transportation
	Source: Texas Transportation Institute; Source: California Department	Highway congestion causes delays affecting personal mobility and goods movement and	Transportation
	Source: California Highway Patrol with 2006 preliminary data	Highway accidents are the leading cause of death for people between the ages of 4	Transportation
		-	Transportation
			Transportation

			Transportation
	Source(s): Latest available statewide rates from SWITRS Annual Report of Fatal	Traffic safety is important to overall community safety.	Health & Safety
	source: County dept of public works	Transportation in rural communities helps sustain social, economic and	Economy & Infrastructure
		Congestion creates delays and creates air pollution	Transportation, Commerce, & Mobility
			Land Use ( Walk-ability and Bike-ability of Urban Development
			Land Use ( Walk-ability and Bike-ability of Urban Development
			Land Use ( Walk-ability and Bike-ability of Urban Development
Survey on how often people use alternative travel means of travel, including biking,			Better Alternatives to Automobile Transport
			Better Alternatives to Automobile Transport
Peple Counts			Better Alternatives to Automobile Transport
Count people using the public transit systems		Connects jobs to the region. "The use of public transportation reduces air pollution	Healthy People and Healthy Communities

Decrease in the percentage of crime rates		Effects economic and social issues and people will not stay in the region if they feel	Healthy People and Healthy Communities
The more vehicles means more travel opportunities are available per household		"With access to more vehicles, members of a household tend to drive more "	Transportation
At least 50% of all housing stock considered affordable by IHDA definition		The goal is to have residents live closer to their jobs so that they do not spend as much	Transportation
Measures the attractiveness of the environment that allows walking		Improves health and the sustainability of the community	Transportation
Children can always walk to schools but parents do not feel that the routes are		Children walking to school encourages active lifestyles that children can take with	Transportation
		Results in less automobile usage, which is better for the environment Also	Greeprint
Minnesota's crime average is less than the national average.		Less crime means more residents feel a sense of safety and more connected to the	Community and Democracy
			Time Balance
	US Census		Physical and Mental Health
	BRFSS		Physical and Mental Health
	MDOT		Physical and Mental Health
			Urban Environment



			Urban Environment
			Urban Environment
	MT Board of Crime		Urban Environment
	Physical Activity in Missoula		KIDS INDICATORS 2020
	MTSB		KIDS INDICATORS 2020
telephone survey			Natural Environment

Transportation

Transportation

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Indicator Source	City, State, National	Population	Link or Citation
Sustainable Pittsburgh	Regional		<a href="http://www.sustainablepittsburgh.org/pdf/2004I">http://www.sustainablepittsburgh.org/pdf/2004I</a>
Sustainable Pittsburgh	Regional		<a href="http://www.sustainablepittsburgh.org/pdf/2004I">http://www.sustainablepittsburgh.org/pdf/2004I</a>
Ministry of Transport	National - New Zealand		<a href="http://www.stats.govt.nz/browse_for">http://www.stats.govt.nz/browse_for</a>
Adapted from Ministry of Transport	National - New Zealand		<a href="http://www.stats.govt.nz/browse_for">http://www.stats.govt.nz/browse_for</a>
New Zealand Transport Agency	National - New Zealand		<a href="http://www.stats.govt.nz/browse_for">http://www.stats.govt.nz/browse_for</a>
Ministry of Transport	National - New Zealand		<a href="http://www.stats.govt.nz/browse_for">http://www.stats.govt.nz/browse_for</a>
Statistics New Zealand	National - New Zealand		<a href="http://www.stats.govt.nz/browse_for">http://www.stats.govt.nz/browse_for</a>
Traffic; Healthy Natural Environment	Regional: Cape Cod	215,000	<a href="http://www.taincapecod.org/indicators/Traffic">http://www.taincapecod.org/indicators/Traffic</a>
City of Toronto	Regional		<a href="http://www.toronto.ca/council/pdf/e">http://www.toronto.ca/council/pdf/e</a>
City of Toronto	Regional		<a href="http://www.toronto.ca/council/pdf/e">http://www.toronto.ca/council/pdf/e</a>

City of Toronto	Regional		<a href="http://www.toronto.ca/council/pdf/en-status-">http://www.toronto.ca/council/pdf/en-status-</a>
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA	137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA	137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA	137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA	137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA	137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA	137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA	137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA	137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA	137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA	137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>
Sustainable City Plan Revised 2006	City: Santa Monica, CA	89,736	<a href="http://www.smgov.net/uploadedFiles/Departmen">http://www.smgov.net/uploadedFiles/Departmen</a>
Sustainable City Plan Revised 2006	City: Santa Monica, CA	89,736	<a href="http://www.smgov.net/uploadedFiles/Departmen">http://www.smgov.net/uploadedFiles/Departmen</a>



Sustainable City Plan Revised 2006	City: Santa Monica, CA	89,736	<a href="http://www.smgov.net/uploadedFiles/Departmen">http://www.smgov.net/uploadedFiles/Departmen</a>
Sustainable City Plan Revised 2006	City: Santa Monica, CA	89,736	<a href="http://www.smgov.net/uploadedFiles/Departmen">http://www.smgov.net/uploadedFiles/Departmen</a>
Sustainable City Plan Revised 2006	City: Santa Monica, CA	89,736	<a href="http://www.smgov.net/uploadedFiles/Departmen">http://www.smgov.net/uploadedFiles/Departmen</a>
Sustainable City Plan Revised 2006	City: Santa Monica, CA	89,736	<a href="http://www.smgov.net/uploadedFiles/Departmen">http://www.smgov.net/uploadedFiles/Departmen</a>
Sustainable City Plan Revised 2006	City: Santa Monica, CA	89,736	<a href="http://www.smgov.net/uploadedFiles/Departmen">http://www.smgov.net/uploadedFiles/Departmen</a>
2010 Indicators Report	County: San Mateo County, CA	718,451	<a href="http://www.sustainablesanmateo.org/indicators-">http://www.sustainablesanmateo.org/indicators-</a>
2010 Indicators Report	County: San Mateo County, CA	718,451	<a href="http://www.sustainablesanmateo.org/indicators-">http://www.sustainablesanmateo.org/indicators-</a>
2010 Indicators Report	County: San Mateo County, CA	718,451	<a href="http://www.sustainablesanmateo.org/indicators-">http://www.sustainablesanmateo.org/indicators-</a>
2010 Indicators Report	County: San Mateo County, CA	718,451	<a href="http://www.sustainablesanmateo.org/indicators-">http://www.sustainablesanmateo.org/indicators-</a>
2010 Indicators Report	County: San Mateo County, CA	718,451	<a href="http://www.sustainablesanmateo.org/indicators-">http://www.sustainablesanmateo.org/indicators-</a>
2010 Indicators Report	County: San Mateo County, CA	718,451	<a href="http://www.sustainablesanmateo.org/indicators-">http://www.sustainablesanmateo.org/indicators-</a>
State of the Bay Area: A Regional Report 2004	Region: Bay Area Alliance for Sustainable Indicators	7,468,390	<a href="http://www.bayareaalliance.org/indicators.pdf">bayareaalliance.org/indicators.pdf</a>

State of the Bay Area: A Regional Report 2004	Region: Bay Area Alliance for Sustainable Indicators	7,468,390	<a href="http://www.bayareaalliance.org/indicators.pdf">http://www.bayareaalliance.org/indicators.pdf</a>
2010 Environmental Index	Region: Silicon Valley (Alameda, Santa Clara, and San Mateo Counties)	4,010,364	<a href="http://www.sustainablesv.org/sites/default/files/">http://www.sustainablesv.org/sites/default/files/</a>
2010 Environmental Index	Region: Silicon Valley (Alameda, Santa Clara, and San Mateo Counties)	4,010,364	<a href="http://www.sustainablesv.org/sites/default/files/">http://www.sustainablesv.org/sites/default/files/</a>
2010 Environmental Index	Region: Silicon Valley (Alameda, Santa Clara, and San Mateo Counties)	4,010,364	<a href="http://www.sustainablesv.org/sites/default/files/">http://www.sustainablesv.org/sites/default/files/</a>
2010 Environmental Index	Region: Silicon Valley (Alameda, Santa Clara, and San Mateo Counties)	4,010,364	<a href="http://www.sustainablesv.org/sites/default/files/">http://www.sustainablesv.org/sites/default/files/</a>
Sustainability Plan 1996	City: San Francisco, CA	3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/downloads/library">http://www.sfenvironment.org/downloads/library</a>
Sustainability Plan 1996	City: San Francisco, CA	3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/downloads/library">http://www.sfenvironment.org/downloads/library</a>
Sustainability Plan 1996	City: San Francisco, CA	3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/downloads/library">http://www.sfenvironment.org/downloads/library</a>
Sustainability Plan 1996	City: San Francisco, CA	3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/downloads/library">http://www.sfenvironment.org/downloads/library</a>
Sustainability Plan 1996	City: San Francisco, CA	3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/downloads/library">http://www.sfenvironment.org/downloads/library</a>
Community Report Card 2010-2011	City: Rocklin, CA	56,974	<a href="http://www.rocklin.ca.gov/civica/filebank/hlohdl">http://www.rocklin.ca.gov/civica/filebank/hlohdl</a>
Orange County 2011 Community Indicators	County: Orange County, CA	3,010,232	<a href="http://www.ocgov.com/vgnfiles/ocgov/CEO/Docs/">http://www.ocgov.com/vgnfiles/ocgov/CEO/Docs/</a>



Orange County 2011 Community Indicators	County: Orange County, CA	3,010,232	<a href="http://egov.ocgov.com/vgnfiles/ocgov/CEO/Docs/http://egov.ocgov.com/vgnfiles/ocgov/CEO/Docs/">http://egov.ocgov.com/vgnfiles/ocgov/CEO/Docs/</a>
Orange County 2011 Community Indicators	County: Orange County, CA	3,010,232	<a href="http://egov.ocgov.com/vgnfiles/ocgov/CEO/Docs/http://www.greenerglendale.org/pdf/GreenerGle">http://egov.ocgov.com/vgnfiles/ocgov/CEO/Docs/</a>
Greener Glendale 2010 Report	City: Glendale, CA	191,719	<a href="http://www.greenerglendale.org/pdf/GreenerGle">http://www.greenerglendale.org/pdf/GreenerGle</a>
Greener Glendale 2010 Report	City: Glendale, CA	191,719	<a href="http://www.greenerglendale.org/pdf/GreenerGle">http://www.greenerglendale.org/pdf/GreenerGle</a>
Greener Glendale 2010 Report	City: Glendale, CA	191,719	<a href="http://www.greenerglendale.org/pdf/GreenerGle">http://www.greenerglendale.org/pdf/GreenerGle</a>
The State of the Region 2007	Region: Southern California Association of Governments	18 million	<a href="http://www.scag.ca.gov/publications/ndf/2007/S">scag.ca.gov/publications/ndf/2007/S</a>
The State of the Region 2007	Region: Southern California Association of Governments	18 million	<a href="http://www.scag.ca.gov/publications/ndf/2007/S">scag.ca.gov/publications/ndf/2007/S</a>
The State of the Region 2007	Region: Southern California Association of Governments	18 million	<a href="http://www.scag.ca.gov/publications/ndf/2007/S">scag.ca.gov/publications/ndf/2007/S</a>
The State of the Region 2007	Region: Southern California Association of Governments	18 million	<a href="http://www.scag.ca.gov/publications/ndf/2007/S">scag.ca.gov/publications/ndf/2007/S</a>
The State of the Region 2007	Region: Southern California Association of Governments	18 million	<a href="http://www.scag.ca.gov/publications/ndf/2007/S">scag.ca.gov/publications/ndf/2007/S</a>
The State of the Region 2007	Region: Southern California Association of Governments	18 million	<a href="http://www.scag.ca.gov/publications/ndf/2007/S">scag.ca.gov/publications/ndf/2007/S</a>
2011 San Diego Regional Quality of Life Dashboard	Region: San Diego Regional	3,095,313	<a href="http://www.equinoxcenter.org/assets/images/In">equinoxcenter.org/assets/images/In</a>

2011 San Diego Regional Quality of Life Dashboard	Region: San Diego Regional	3,095,313	<a href="http://www.equinoxcenter.org/assets/images/In">http://www.equinoxcenter.org/assets/images/In</a>
Tuolumne County Profile 2008 Community Indicators Project	County: Tuolumne County, CA	55,365	<a href="http://www.tuolumnecountyprofile.org/">http://www.tuolumnecountyprofile.org/</a>
Tuolumne County Profile 2008 Community Indicators Project	County: Tuolumne County, CA	55,365	<a href="http://www.tuolumnecountyprofile.org/">http://www.tuolumnecountyprofile.org/</a>
The Economy: Indicator Series Second Edition 2005-2008	Region: Great Central Valley	6.5 million	<a href="http://www.greatvalley.org/indicators/">http://www.greatvalley.org/indicators/</a>
Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2007			<a href="http://www.ppacg.org/Envir/PPSIProject.pdf">www.ppacg.org/Envir/PPSIProject.pdf</a>
Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2008			<a href="http://www.ppacg.org/Envir/PPSIProject.pdf">www.ppacg.org/Envir/PPSIProject.pdf</a>
Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2009			<a href="http://www.ppacg.org/Envir/PPSIProject.pdf">www.ppacg.org/Envir/PPSIProject.pdf</a>
Tucson Arizona Government( Livable Tucson Goals)			<a href="http://cms3.tucsonaz.gov/livable/lv-toc">http://cms3.tucsonaz.gov/livable/lv-toc</a>
Tucson Arizona Government( Livable Tucson Goals)			<a href="http://cms3.tucsonaz.gov/livable/lv-toc">http://cms3.tucsonaz.gov/livable/lv-toc</a>
Tucson Arizona Government( Livable Tucson Goals)			<a href="http://cms3.tucsonaz.gov/livable/lv-toc">http://cms3.tucsonaz.gov/livable/lv-toc</a>
Sustainable Cincinnati	Regional		<a href="http://www.sustainablecincinnati.org/pages/indica">http://www.sustainablecincinnati.org/pages/indica</a>

Sustainable Cincinnati	Regional	<a href="http://www.sustainablecincinnati.org/pages/indic">http://www.sustainablecincinnati.org/pages/indic</a>
Metro Pulse: Chicago	Regional	<a href="http://www.metropulsechicago.org/">http://www.metropulsechicago.org/</a>
Metro Pulse: Chicago	Regional	<a href="http://www.metropulsechicago.org/">http://www.metropulsechicago.org/</a>
Metro Pulse: Chicago	Regional	<a href="http://www.metropulsechicago.org/">http://www.metropulsechicago.org/</a>
Metro Pulse: Chicago	Regional	<a href="http://www.metropulsechicago.org/">http://www.metropulsechicago.org/</a>
Minneapolis Sustainability Indicators and Numerical Targets	Regional	<a href="http://www.ci.minneapolis.mn.us/sustainability/d">http://www.ci.minneapolis.mn.us/sustainability/d</a> <a href="http://server.admin.state.mn.us/mm">http://server.admin.state.mn.us/mm</a>
Minnesota Milestones	State-Minnesota	<a href="http://www.ci.minneapolis.mn.us/sustainability/d">http://www.ci.minneapolis.mn.us/sustainability/d</a> <a href="http://server.admin.state.mn.us/mm">http://server.admin.state.mn.us/mm</a>
Sustainable Seattle	City	<a href="http://www.sustainableseattle.org/sa">http://www.sustainableseattle.org/sa</a> <a href="http://www.sustainableseattle.org/sa">http://www.sustainableseattle.org/sa</a>
Missoula Measures	City/County	<a href="http://www.co.missoula.mt.us/measures/Physical">http://www.co.missoula.mt.us/measures/Physical</a> <a href="http://www.co.missoula.mt.us/measures/Physical">http://www.co.missoula.mt.us/measures/Physical</a>
Missoula Measures	Montana	<a href="http://www.co.missoula.mt.us/measures/Physical">http://www.co.missoula.mt.us/measures/Physical</a> <a href="http://www.co.missoula.mt.us/measures/Physical">http://www.co.missoula.mt.us/measures/Physical</a>
Missoula Measures	Montana	<a href="http://www.co.missoula.mt.us/measures/Physical">http://www.co.missoula.mt.us/measures/Physical</a> <a href="http://www.co.missoula.mt.us/measures/Physical">http://www.co.missoula.mt.us/measures/Physical</a>
Missoula Measures		<a href="http://www.co.missoula.mt.us/measures/Physical">http://www.co.missoula.mt.us/measures/Physical</a> <a href="http://www.co.missoula.mt.us/measures/Physical">http://www.co.missoula.mt.us/measures/Physical</a>

Missoula Measures			<a href="http://www.co.missoula.mt.us/measures/IrhanF">http://www.co.missoula.mt.us/measures/IrhanF</a>
Missoula Measures	City		<a href="http://www.co.missoula.mt.us/measures/IrhanF">http://www.co.missoula.mt.us/measures/IrhanF</a>
Missoula Measures	City		<a href="http://www.co.missoula.mt.us/measures/IrhanF">http://www.co.missoula.mt.us/measures/IrhanF</a>
Missoula Measures	City		<a href="http://www.co.missoula.mt.us/measures/Health">http://www.co.missoula.mt.us/measures/Health</a>
Missoula Measures	City		<a href="http://www.co.missoula.mt.us/measures/Health">http://www.co.missoula.mt.us/measures/Health</a>
Anchorage Community Assessment Project	City		<a href="http://www.appliedsurveyresearch.org/www/pro">appliedsurveyresearch.org/www/pro</a>
European Common Indicators	City		

(Newman and Kenworthy,1999);Assessing sustainability.a guide for local government,M  
(Newman and Kenworthy,1999);Assessing sustainability.a guide for local government,M  
(Newman and Kenworthy,1999);Assessing sustainability.a guide for local government,M  
(Newman and Kenworthy,1999);Assessing sustainability.a guide for local government,M  
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(Newman and Kenworthy,1999);Assessing sustainability.a guide for local government,M  
(Newman and Kenworthy,1999);Assessing sustainability.a guide for local government,M

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<http://www.siemens.com/entry/cc/features/gre>  
<http://www.siemens.com/entry/cc/features/gre>  
<http://www.siemens.com/entry/cc/features/gre>

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<http://www.siemens.com/entry/cc/features/gre>

Your Name	Notes
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Lindsay S	
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Emily	







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Indicator	Unit of Measurement
Air Quality	EPA Air Quality Index, based on measurements of ground-level ozone and Particulate Matter, transforms ambient concentrations of parts per billion into a scale.
Net Greenhouse Gas Emissions	Tonnes (millions) of CO <sub>2</sub>
Greenhouse Gas Emissions by Sector	Teragrams CO <sub>2</sub>
Annual Surface Temperature	°C
Greenhouse Gas Intensity of the Economy	greenhouse gas emissions (CO <sub>2</sub> , methane, nitrous oxide, sulphur hexaflouride, hydrofluorocarbons, perfluorocarbons)/GDP
Stratospheric Ozone Levels	Dobson Units
Air Pollution	PM <sub>10</sub> Concentration, nitrogen dioxide, carbon monoxide, sulphur dioxide, ground-level ozone
Use and generation of toxic materials (both in production and by end user)	
Total energy used from all sources	
Percent of products produced which are durable, repairable, or readily recyclable or compostable	

Air Quality	1. Urban population weighted NO2 concentration, 2. Urban population weighted SO2 concentration, 3. urban population weighted TSP concentration, 4. indoor air pollution from solid fuel use
Reducing Air Pollution	1. Coal consumption per populated land area 2. Anthropogenic Nox emissions 3. Anthropogenic SO2 emissions 4. Anthropogenic VOC emissions 5. Vehicles in use
Ground-level Ozone (O3) & PM 2.5 Concentrations	ppb and micorgrams per m3
Air Pollutant Emissions (sulphur oxides, nitrogen oxides, volatile organic compounds (VOC), fine particulate matter (PM2.5), and ammonia)	emissions in megatonnes
Greenhouse Gas Emissions by Sector	megatonnes CO2 equivalent
# of hospital admissions and premature mortality as a result of air pollution	#/every 5 years
# of smog advisory days per year	
eCO2 reduction	kg/year
NOx and VOC against base year	
liters of fuel consumed/100 km/driver	
% removal efficiency of fine road dust	FM10
Tree Canopy ACTION: Conduct an inventory of existing canopy coverage in the City; and then establish a goal to plant and maintain canopy coverage in not less than 50% of all available sidewalk planting sites	
Percent of tree canopy coverage in the Public Right Of Way (P.R.O.W.)	
Sidewalk tree sites	

Vacant sidewalk tree sites	
Percent of all sidewalk tree sites vacant	
Newly planted trees	
Clean Vehicles ACTION: Phase down sulfur levels in diesel and gasoline fuels; use advanced emission controls on all public fleets to reduce particulate matter and smog-forming emissions from those fleets 50% by 2012.	
Vehicles in City fleet	
Percent of City fleet vehicles which are alternative fuel vehicles	
Percent of City diesel fleet vehicles which are biodiesel vehicles	
Percent of City fleet vehicles which are hybrid vehicles	
Percent of City diesel fleet vehicles retrofitted with particulate traps	
Traffic Congestion ACTION: Implement a policy to reduce the percentage of commute trips of single occupancy vehicles 10% by 2012.	
Average vehicle ridership for Air Quality Management District (AQMD) regulated sites	
Average vehicle ridership for City of Pasadena Employees	
City traffic reduction and transportation improvement fees collected	
Total miles of bike paths citywide	
Bike racks in the public right of way	
Pasadena ARTS bus service ridership in Pasadena	

Foothill Transit service ridership (ridership through Pasadena)	
Metro bus service ridership in Pasadena	
Metro Gold Line ridership in Pasadena	
Air Quality ACTION: Establish an Air Quality Index (AQI) to measure the level of air pollution and set the goal of a 10% reduction by 2012 the number of days categorized in the AQI range as "unhealthy" or "hazardous".	
Number of days for which the Ozone state standard was exceeded	
Number of days for which the Ozone federal standard was exceeded	
Number of samples which exceeded the federal standard for fine particulates	
Number of days air standard was categorized as unhealthy due to a fire-related event	
Total citywide greenhouse gas emissions	total, per capita, by source, by sector
% of residents live within .5 mi radius of significant emissions sources	Total %, % by demographic profile
Toxic Air Contaminants (TACs)	Number of facilities permitted to release TACs, total volume of TACs emitted
Percent of tree canopy coverage by neighborhood	
Percent of newly planted and total trees that meet defined sustainability criteria (developed in '07)	

Particulate Matter 2.5 concentration	Emission concentrations monthly
Metric tons of carbon dioxide emitted in one year	Metric tons
Greenhouse gas emissions per capita	
Percent of greenhouse gas emissions from transportation	
Percent of greenhouse gas emissions from electricity and natural gas	
Amount of methane released from landfills	Metric tons
Carbon Emissions	Total and per capita carbon emissions (from electricity, natural gas, and gasoline)
Ozone	Number of days exceeding state ozone standard; national 1-hr standard
Particulate Matter	Number of days exceeding state PM standard; national standard
Ozone	Number of days exceeding state and national 8 hour standards

Particulate Matter	Number of days the PM2.5 exceeded the 2006 national standard and the State Annual PM2.5 Average
Number of existing buildings that join the Building Air Quality Alliance Program (or similar voluntary programs)	
Number of people going to clinics for respiratory problems	
Percentage of new cars registrations which are alternatively fueled (CA air Resources Board-certified, low emissions, ultra-low emissions, or electric vehicles)	
New cases of asthma	
Air Quality	Air Quality Index: Percent of days where air quality was good, moderate, unhealthy for sensitive groups, or unhealthy
Action: Climate Change - Reduce Greenhouse gas emissions	
Action: Clean Air	Air Quality Index

Action: Clean Vehicles - Reduce Vehicle Air Pollution	
Air Quality	Percent of sampling days exceeding PM2.5 federal 24-hour standard; also PM10; Number of days ozone pollution exceeds federal eight-hour standard
greenhouse gas emissions	pounds of carbon dioxide equivalent per capita per day emitted
unhealthy days for elderly & children	Number of days air quality is unhealthy for children and older adults
air quality	Days exceeding 8-hr ozone standard
ozone at-risk counts	Number of days ozone exceeded rates for those at-risk multiplied by the number of people at risk
Ozone Exceedance	above 0.075 ppm is exceedance



<p>Particulate Matter ( PM 10)</p>	<p>Above 150 microrams per square meter is exceedance</p>
<p>Asthma Hospitalizations and Emergency Room Visits</p>	<p>Asthma Discharges per 1k population</p>
<p>Days with Minimum Temperatue above 90 Degrees</p>	<p>Number of days with minimum temperature above 90 degrees</p>
<p>Average June Low Temperatures</p>	<p>average temperature( Fahrenheit)</p>
<p>June Monthly Average Heat Temperatures</p>	<p>Heat Index ( Apparent Temperature)</p>

Cooling Degree days	Cooling degree days,heating degree days
Particulate Levels	Days ( Number of days where atleast one pf county's air quality monitors records levels above federal Standard
Ozone Levels	Days ( Number of days where atleast one pf county's air quality monitors records levels above federal Standard
Number of days you can see Rincon Peak from Tumamoc Hill	
Days that Tucson operated with no violations of federal clean air and water standards	
Number of Days in the Year Having an AQI Value of 0 Through 50	Air Quality Index. Days are rated as good, moderate, unhealthy for sensitive or unhealthy groups based on pollutants in the air.
Reduces Asthma Cases	Number of old and new cases of asthma in a percentage form

Air Quality	
Air Pollutants	
Greenhouse gas emissions	
Air Quality (VOC emissions recorded in National Inventory Emissions Data)	
Days of Poor Air Quality	
PM levels, Carbon Monoxide levels	
Concentration of Air Pollutants	Parts per Million (PPM)

Reduce total quantity of air pollutants per capita

Reduce total green house gases(e.g Kyoto's goals of demonstrating progress' by 2005 and

achieve zero days not meeting air quality standards

Local Contribution to Global Climate

Change: **CO2 Emissions Per Capita**

CO2 emissions per capita

Quality of the Air: **Number of PM10 net  
overcomings**

Air emissions NOx

tonnes/capita/year

Air emissions SO2

tonnes/capita/year

Quality of local air: number of exceedances of PM10 limit value  
Farm Odor ?  
number

Climate Change  
CLIMATE

Air Pollution (effects on ecosystem)  
AIR\_E

CO2 emissions per unit of GDP  
quantitative - total CO2 emissions in metric tons per US\$m of GDP

CO2 emissions per person  
quantitative - total CO2 emissions in metric tons per person.  
qualitative - assessment of the ambitiousness of GHG reduction strategy as well as of the rigor of the city's CO2 reduction target and emissions measurements.

CO2 reduction strategy

Nitrogen Oxide emissions  
quantitative - NOX per annum, lb per person

Sulfur dioxide emissions                      quantitative - SO2 per annum, lb per person

PM10 emissions                                      quantitative - pm10 emissions per annum, lb person

clean air policy                                      qualitative - measure a city's efforts to reduce air pollution.

Target	Method of Measurement	Data Source
Less than 35 ppb for PM 2.5	for dubuque: EPA AQI from Potosi, WI station--graph AQI with % of days AQI in unhealthy categories, as well as annual number of days over 8-hour ozone standard	<a href="http://www.epa.gov">www.epa.gov</a>
	Seven long-term stations	
	Measured by NIWA as 'total column ozone'	
	Monitoring at Selected Sites	
	VMT	
	Ratio of renewable energy used at renewable rate compared to nonrenewable energy	







City Operations: 30% Below 1990 levels by 2015. Citywide: 15% below 1990 levels by 2015		
Identify all significant sources		
TBD		
Upward trend		
TBD		

Reduce by 10% below today's levels by 2035		
		Electricity: PG&E, Gasoline: Office of Transportation Economics, Natural Gas: CA energy commission
		Bay Area Air Quality Management District
		Bay Area Air Quality Management District

Up		
Down		
Up		
Down		
		Sources: U.S. Environmental Protection Agency, Air Data ( <a href="http://www.epa.gov/air/data/index.html">www.epa.gov/air/data/index.html</a> ) and Air Explorer ( <a href="http://www.epa.gov/airexplorer/index_recent.htm">www.epa.gov/airexplorer/index_recent.htm</a> )
Reduce GHG emissions by twenty-five percent by 2030		
Reduce by ten percent in seven years the number of days categorized in the AQI range as “unhealthy” or “hazardous.”		

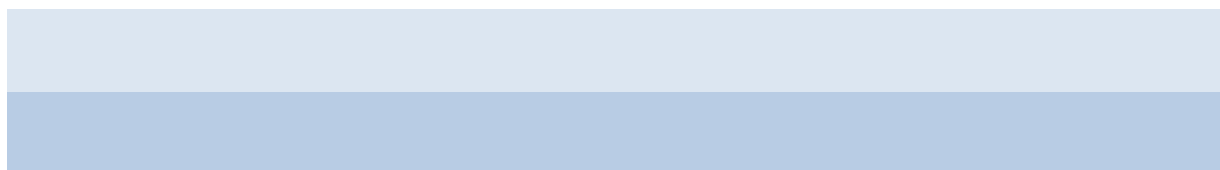
<p>Phase down sulfur levels in diesel and gasoline fuels, concurrent with using advanced emission controls on all buses, taxis, and public fleets to reduce particulate matter and smog forming emissions from those fleets by fifty percent in seven years.</p>		
		<p>Source: California Air Resources Board and South Coast Air Quality Management District</p>
	<p>One exceedence is recorded if the 4th-highest daily maximum value is above the level of the standard (0.075 ppm) for an eight hour average.</p>	

	Federal PM10 standards are exceeded when the 24-hour average concentration is greater than 150 micrograms per square meter( measured by EPA)	
	1.Total Hospital Discharges for Asthma as first listed Diagnosis, 2. Total ER Visits as First Listed Diagnosis	
	Data were collected by Arizona State University's Decision Center for a Desert City (DCDC) using records from NOAA's National Climatic Data Center, Satellite and Information Service. <a href="http://www.ncdc.noaa.gov/oa/climate/climatedata.html#daily">http://www.ncdc.noaa.gov/oa/climate/climatedata.html#daily</a>	
	From the U.S. Environmental Protection Agency's Monitor Trends Report	
	Heat index data were collected by Arizona State University's Decision Center for a Desert City (DCDC) from the Arizona State Climate Office, <a href="http://geography.asu.edu/azclimate">http://geography.asu.edu/azclimate</a> . Temperatures and humidity were recorded at the Phoenix Sky Harbor International Airport climate monitoring station.	

	In order to calculate cooling degree days, a reference temperature of 65°F is subtracted from the daily mean.	
		Pima County Department of Environmental Quality, in conjunction with Arizona Department of Environmental Quality, monitors visible air pollution (urban haze) continuously using a video camera from partway up Tumamoc Hill oriented toward the Rincon Mountains (and also from a second site atop the County Health Building oriented due east)
	Measures the five main pollutants recognized in the 1990 Clean Air Act	
	Decrease the percentage of people with asthma (new and old cases)	

	Reduce criteria air pollution levels in the Minneapolis area to health-based levels that are recommended by the Environmental Protection Agency Clean Air Scientific Advisory Committee and to reduce all air toxins to levels within state health guidelines by 2015.	
	Reduce all emissions of sulfur dioxide, nitrogen oxide and carbon monoxide into the air.	
		Environmental Health, MCCHD

and 5 % reductions by 2008-2012 from 1990 levels and then further reduction annually



Values for 3 stations with the highest number of limit value exceedances.

	Greenhouse gas emissions per capita (including land use emissions)	GHGCAP
	CO2 emissions per electricity generation	CO2KWH
	Industrial greenhouse gas emissions intensity	GHGIND
4.166666667	Sulfur dioxide emissions per populated land area	SO2
	Nitrogen oxides emissions per populated land area*	NOX
	Non-methane volatile organic compound emissions per populated land area*	NMVOC
	Ecosystem ozone*	OZONE





why is this important?	Source Principle Heading
<p>Dubuque teeters on the edge of nonattainment for PM2.5. the 3-year average at the Potosi, WI monitoring station (EPA station measuring area air quality including Dubuqu) is 35-greater than 35 and non-attainment status and fines are assessed. Greater dubuque Development Corporation Rick Dickinson "the nonattainment designation would be a hindrance to our regional economy and future growth...and not just in manufacturing, but in nearly every sector of the economy."</p>	Air Quality
	Air and Atmosphere
	Air and Atmosphere
	Air and Atmosphere
	Air and Atmosphere
	Air and Atmosphere
	Air and Atmosphere
<p>As opposed to measureing ambient levels of pollution in air and water, measuring the activities causing pollution</p>	Environmental
<p>Measure the use of resources at a sustainable rate</p>	Environmental
<p>As opposed to measuring tons of solid waste generated, this presents a more conservative and cyclical view of use of materials</p>	Environmental

	Environmental Systems
	Reducing Environmental Stresses
Exposure in even small amounts can cause serious health effects	Air Quality
	Air Quality
	Air Quality
	Sustainable Indicators
	Sustainable Indicators
	Sustainable Indicators
	Sustainable Indicators
	Sustainable Indicators
	Urban Nature
	Urban Nature - Tree Canopy
	Urban Nature - Tree Canopy



	Transportation - Traffic Congestion
	Transportation - Traffic Congestion
	Transportation - Traffic Congestion
	Environmental Health
	Environmental Health - Air Quality
	Environmental Health - Air Quality
	Environmental Health - Air Quality
	Environmental Health - Air Quality
	Resource Conservation - System Level
	Environmental and Public Health - System Level
	Environmental and Public Health - Program Level
	Open Space and Land Use - System Level
	Open Space and Land Use - System Level

A sustainable state is one where the air is clean and poses no threat to human health or environmental quality.	Air Quality
	Air Quality
In a sustainable state, humans have reduced greenhouse gas emissions to a level that is in balance with nature's ability to absorb those emissions.	Greenhouse Gas Emissions
	Greenhouse Gas Emissions
	Greenhouse Gas Emissions
	Greenhouse Gas Emissions
Carbon emissions into the atmosphere are a major cause of global climate change. The chief source of carbon emissions is the combustion of fossil fuels through transportation and electricity generation.	Resource Use
While ozone in the upper atmosphere is necessary for our survival, ozone at the ground level is detrimental to health. Chemicals in car exhaust and produced by some industries can react with sunlight to produce ground level ozone, also known as smog. Even at the lower levels, smog aggravates asthma and breathing problems, oxidizes building surfaces, and slows plant growth. There are national health-based standards for ozone.	Resource Use
Particulate matter refers to a variety of small solid or liquid airborne particles that are less than 10 microns in size — often called PM10. Studies have linked high levels of PM10 to aggravated asthma and acute respiratory symptoms, chronic bronchitis, decreased lung function, and even premature death. Recent research has demonstrated that infants and children — especially those with asthma — the elderly, and people with heart or lung disease are especially vulnerable to these adverse effects. The most common sources of PM10 are diesel exhaust, dust from paved and unpaved roads, wood burning, agricultural burning and industrial sources.	Resource Use
Environmental and public health care costs resulting from air pollution are significant. One of the most dangerous air pollutants is particulate matter.	Air Quality

	Air Quality
	Air Quality
	Air Quality
	Air Quality
	Human Health
Poor air quality can cause irritation and illness in an otherwise healthy population and increases risks for many health conditions such as lung cancer and cardiovascular disease. It can also aggravate the symptoms of existing heart or lung ailments, including asthma.	Environment
	Energy
	Environmental Health

	Transportation
Good air quality is vital for the health of residents, nature and the economy. Human health effects of air pollution can range from lung irritation to cancer and premature death. Ecological effects include damage to crops and contamination of waters. Degradation in human and ecological health often adversely impacts economic well-being.	The Environment
	climate change
	air quality
Ozone in the upper atmosphere is necessary for our survival. Chemicals from car exhaust and some industries can react with sunlight to produce ground level ozone and smog, which are harmful to health.	Natural Resources & Recreation
	Air
	Air Quality



	Air Quality
	Air Quality
	Urban Heat Island
	Urban Heat Island
	Urban Heat Island

	Urban Heat Island
	Air Quality
	Air Quality
	Clean Air and Quality Water
	Clean Air and Quality Water
A community with poor air quality can result in negative effects such as an increased number of asthma victims, lung disease, or heart disease. This also poses a threat to the environment such as lakes, crops and our climate.	Air Quality
A number of asthma occurrences in a community means that the air quality of the community could be problematic.	A Healthy Life

Reduce criteria air pollution levels in the Minneapolis area to health-based levels recommended by the Environmental Protection Agency Clean Air Scientific	A Healthy Life
Helps to decrease many negative health effects to the environment.	Environment
	Environmental Quality
	Environmental Quality
	Urban Environment
	Urban Environment
	Environment
	Energy and Air Quality
	Energy and Air Quality
	Energy and Air Quality

12.5 CAIT, Houghton, WDI

6.25 IEA

6.25 CAIT, WDI, CIA

EDGARv3.2, UNFFCC,

2.083333333 REAS

EDGARv3.2, UNFFCC,

0.694444444 REAS

EDGARv3.2, UNFFCC,

0.694444444 REAS

0.694444444 MOZART II model



Indicator Source	City, State, National
SustainCapeCod.org	Regional (Cape Cod)
New Zealand Tatauranga Aotearoa - Ministry for the Environment	National - New Zealand
New Zealand Tatauranga Aotearoa - Ministry for the Environment	National - New Zealand
New Zealand Tatauranga Aotearoa - Ministry for the Environment, National Institute of Water and Atmospheric	National - New Zealand
New Zealand Tatauranga Aotearoa - Ministry for the Environment	National - New Zealand
New Zealand Tatauranga Aotearoa - National Institute of Water and Atmospheric Research	National - New Zealand
New Zealand Tatauranga Aotearoa - Ministry for the Environment	National - New Zealand
Sustianable Measures 101	General
Sustianable Measures 101	General
Sustianable Measures 101	General

2005 Environmental Sustainability Index Report	Global
2005 Environmental Sustainability Index Report	Global
Environment Canada	National - Canada
Environment Canada	National - Canada
Environment Canada	National - Canada
City of Toronto, Canada	Regional
City of Toronto, Canada	Regional
City of Toronto, Canada	Regional
City of Toronto, Canada	Regional
City of Toronto, Canada	Regional
City of Toronto, Canada	Regional
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA





Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Sustainable City Plan Revised 2006	City: Santa Monica, CA
Sustainable City Plan Revised 2006	City: Santa Monica, CA
Sustainable City Plan Revised 2006	City: Santa Monica, CA
Sustainable City Plan Revised 2006	City: Santa Monica, CA
Sustainable City Plan Revised 2006	City: Santa Monica, CA

2010 Indicators Report	County: San Mateo County, CA
2010 Indicators Report	County: San Mateo County, CA
2010 Indicators Report	County: San Mateo County, CA
2010 Indicators Report	County: San Mateo County, CA
2010 Indicators Report	County: San Mateo County, CA
2010 Indicators Report	County: San Mateo County, CA
State of the Bay Area: A Regional Report 2004	Region: Bay Area Alliance for Sustainable Indicators
State of the Bay Area: A Regional Report 2004	Region: Bay Area Alliance for Sustainable Indicators
State of the Bay Area: A Regional Report 2004	Region: Bay Area Alliance for Sustainable Indicators
2010 Environmental Index	Region: Silicon Valley (Alameda, Santa Clara, and San Mateo Counties)

2010 Environmental Index	Region: Silicon Valley (Alameda, Santa Clara, and San Mateo Counties)
Sustainability Plan 1996	City: San Francisco, CA
Sustainability Plan 1996	City: San Francisco, CA
Sustainability Plan 1996	City: San Francisco, CA
Sustainability Plan 1996	City: San Francisco, CA
Sustainability Plan 1996	City: San Francisco, CA
Orange County 2011 Community Indicators	County: Orange County, CA
Greener Glendale 2010 Report	City: Glendale, CA
Greener Glendale 2010 Report	City: Glendale, CA

Greener Glendale 2010 Report	City: Glendale, CA
The State of the Region 2007	Region: Southern California Association of Governments
2011 San Diego Regional Quality of Life Dashboard	Region: San Diego Regional
2011 San Diego Regional Quality of Life Dashboard	Region: San Diego Regional
Tuolumne County Profile 2008 Community Indicators Project	County: Tuolumne County, CA
The Environment: Indicator Series Second Edition 2005-2008	Region: Great Central Valley
Arizona Indicators ( Project Managed by Morrison Institute of Public Policy	

Arizona Indicators ( Project Managed by Morrison Institute of Public Policy

Arizona Indicators ( Project Managed by Morrison Institute of Public Policy

Arizona Indicators ( Project Managed by Morrison Institute of Public Policy

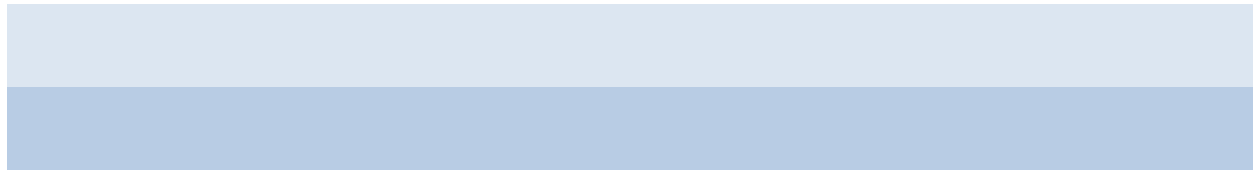
Arizona Indicators ( Project Managed by Morrison Institute of Public Policy

Arizona Indicators ( Project Managed by Morrison Institute of Public Policy

Arizona Indicators ( Project Managed by Morrison Institute of Public Policy	
Maricopa County Annual Report of Community Indicators ( 2006)	
Maricopa County Annual Report of Community Indicators ( 2006)	
Tucson Arizona Government( Livable Tucson Goals)	
Tucson Arizona Government( Livable Tucson Goals)	
Metro Pulse: Chicago	Regional (Chicago-Seven Counties including Cook DuPage, Kane, Kendall, Lake, McHenry and Will
Minneapolis Sustainability Indicators and Numerical Targets	Regional

Minneapolis Sustainability Indicators and Numerical Targets	Regional
Minnesota Milestones	State-Minnesota
Sustainable Seattle	City
Sustainable Seattle	City
Missoula Measures	City
Missoula Measures	City
Metro Pulse: Chicago	Regional

(Newman and Kenworthy,1999);Assessing sustainability.a guide for local government,M Feiden and E. Hamin  
(Newman and Kenworthy,1999);Assessing sustainability.a guide for local government,M Feiden and E. Hamin  
(Newman and Kenworthy,1999);Assessing sustainability.a guide for local government,M Feiden and E. Hamin



## Sustainability Indicators, City of Prague

2.5 Mt CO2 eq. (Estimated value associated with 50% reduction in global GHG emissions by 2050, against 1990 levels)

0 g CO2 per kWh

36.3 tons of CO2 per \$mill (USD, 2005, PPP) of industrial GDP (Estimated value associated with 50% reduction in global GHG emissions by 2050, against 1990 levels)

$\leq 0.01$  Gg/sq km

$\leq 0.01$  Gg/sq km

$\leq 0.01$  Gg/sq km

0 ppb exceedance above 3000 AOT40. AOT40 is cumulative exceedance above 40 ppb during daylight summer hours

Siemens

city

Siemens

city

Siemens

city

Siemens



Siemens

Siemens

Siemens

Population	Link or Citation	Your Name
215,000	<a href="http://www.sustaincapecod.org/indicators">http://www.sustaincapecod.org/indicators</a>	Lindsay S
	<a href="http://www.stats.govt.nz/browse_for_stats/environment/sustainable_development/sustainable-development/air-and-">http://www.stats.govt.nz/browse_for_stats/environment/sustainable_development/sustainable-development/air-and-</a>	Emily
	<a href="http://www.stats.govt.nz/browse_for_stats/environment/sustainable_development/sustainable-development/air-and-">http://www.stats.govt.nz/browse_for_stats/environment/sustainable-development/air-and-</a>	Emily
	<a href="http://www.stats.govt.nz/browse_for_stats/environment/sustainable_development/sustainable-development/air-and-">http://www.stats.govt.nz/browse_for_stats/environment/sustainable-development/air-and-</a>	Emily
	<a href="http://www.stats.govt.nz/browse_for_stats/environment/sustainable_development/sustainable-development/air-and-">http://www.stats.govt.nz/browse_for_stats/environment/sustainable-development/air-and-</a>	Emily
	<a href="http://www.stats.govt.nz/browse_for_stats/environment/sustainable_development/sustainable-development/air-and-">http://www.stats.govt.nz/browse_for_stats/environment/sustainable-development/air-and-</a>	Emily
N/A	<a href="http://www.sustainablemeasures.com/node/90">http://www.sustainablemeasures.com/node/90</a>	Lindsay S
N/A	<a href="http://www.stats.govt.nz/browse_for_stats/environment/sustainable_development/sustainable-development/air-and-">http://www.stats.govt.nz/browse_for_stats/environment/sustainable-development/air-and-</a>	Lindsay S
N/A	<a href="http://www.stats.govt.nz/browse_for_stats/environment/sustainable_development/sustainable-development/air-and-">http://www.stats.govt.nz/browse_for_stats/environment/sustainable-development/air-and-</a>	Lindsay S

	<a href="http://sedac.ciesin.columbia.edu/es/esi/ESI2005.pdf">http://sedac.ciesin.columbia.edu/es/esi/ESI2005.pdf</a>	Lindsay S
	<a href="http://sedac.ciesin.columbia.edu/es/esi/ESI2005.pdf">http://sedac.ciesin.columbia.edu/es/esi/ESI2005.pdf</a>	Lindsay S
	<a href="http://www.ec.gc.ca/indicateurs-indicators/default.asp?lang=En&amp;n=3618F1AA-1">http://www.ec.gc.ca/indicateurs-indicators/default.asp?lang=En&amp;n=3618F1AA-1</a>	Emily
	<a href="http://www.ec.gc.ca/indicateurs-indicators/default.asp?lang=En&amp;n=3618F1AA-1">http://www.ec.gc.ca/indicateurs-indicators/default.asp?lang=En&amp;n=3618F1AA-1</a>	Emily
	<a href="http://www.ec.gc.ca/indicateurs-indicators/default.asp?lang=En&amp;n=3618F1AA-1">http://www.ec.gc.ca/indicateurs-indicators/default.asp?lang=En&amp;n=3618F1AA-1</a>	Emily
	<a href="http://www.toronto.ca/council/pdf/ep-status-execsum-sept04.pdf">http://www.toronto.ca/council/pdf/ep-status-execsum-sept04.pdf</a>	Emily
	<a href="http://www.toronto.ca/council/pdf/ep-status-execsum-sept04.pdf">http://www.toronto.ca/council/pdf/ep-status-execsum-sept04.pdf</a>	Emily
	<a href="http://www.toronto.ca/council/pdf/ep-status-execsum-sept04.pdf">http://www.toronto.ca/council/pdf/ep-status-execsum-sept04.pdf</a>	Emily
	<a href="http://www.toronto.ca/council/pdf/ep-status-execsum-sept04.pdf">http://www.toronto.ca/council/pdf/ep-status-execsum-sept04.pdf</a>	Emily
	<a href="http://www.toronto.ca/council/pdf/ep-status-execsum-sept04.pdf">http://www.toronto.ca/council/pdf/ep-status-execsum-sept04.pdf</a>	Emily
	<a href="http://www.toronto.ca/council/pdf/ep-status-execsum-sept04.pdf">http://www.toronto.ca/council/pdf/ep-status-execsum-sept04.pdf</a>	Emily
137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>	Medora
137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>	Medora
137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>	Medora



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137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>	Medora
137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>	Medora
137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>	Medora
137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>	Medora
137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>	Medora
137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>	Medora
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	<a href="http://www.metropulsechicago.org/">http://www.metropulsechicago.org/</a>	Lindsay W.

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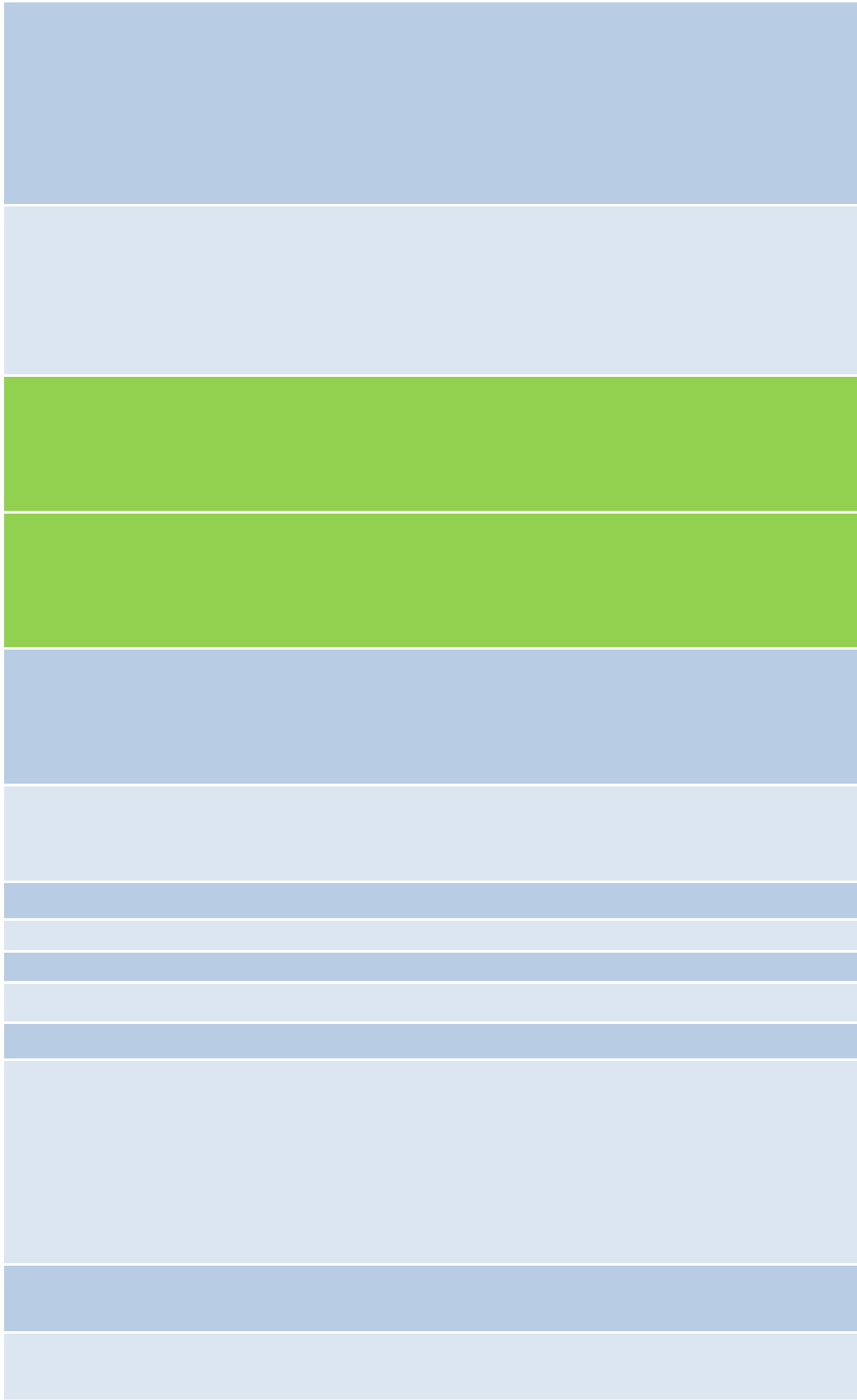
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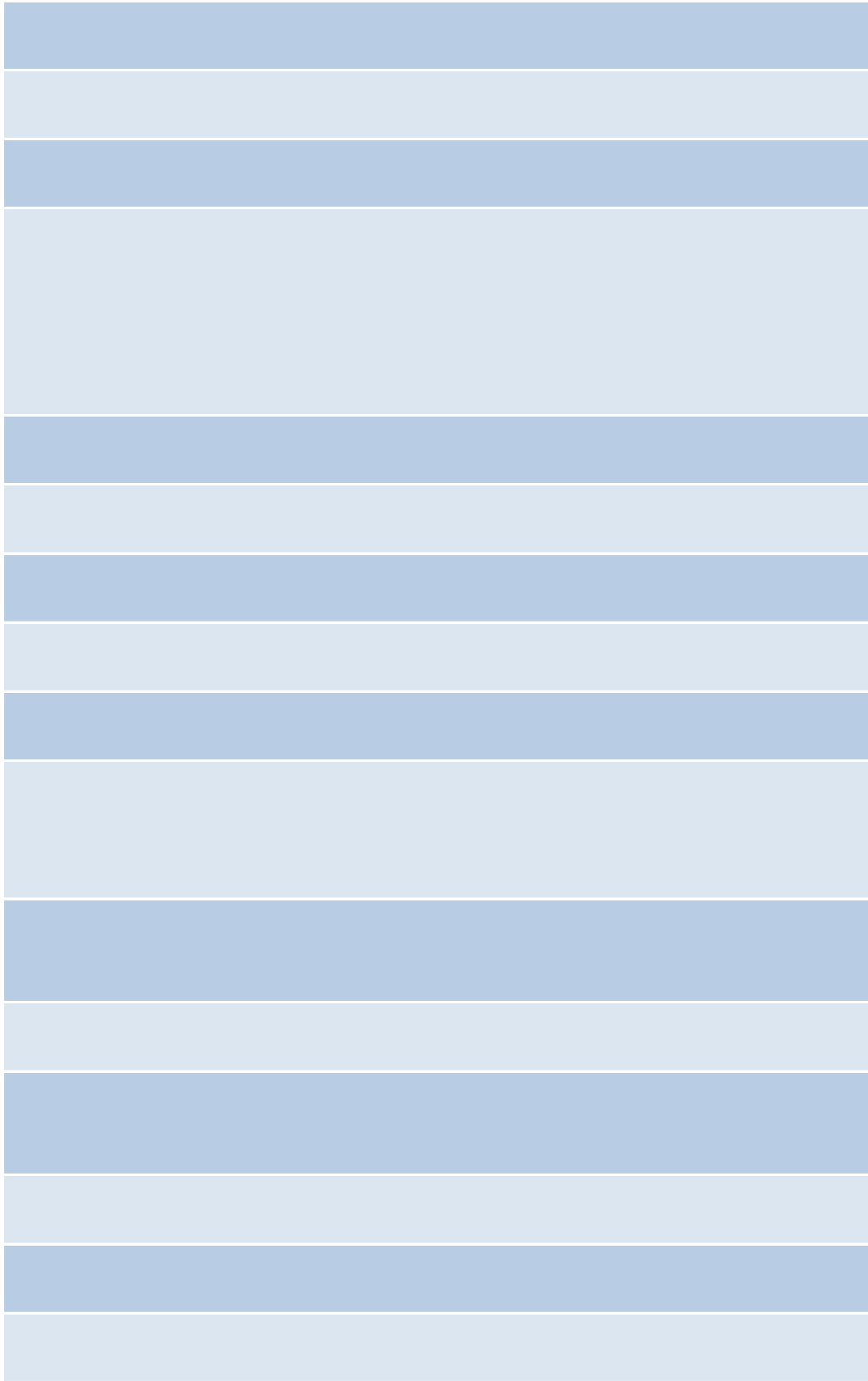
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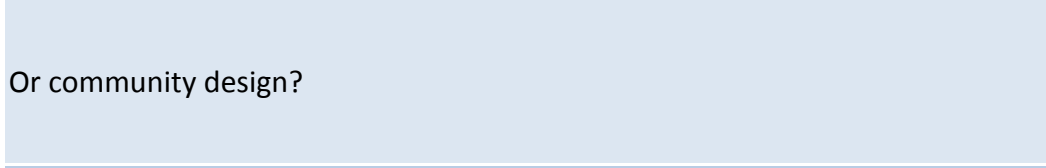
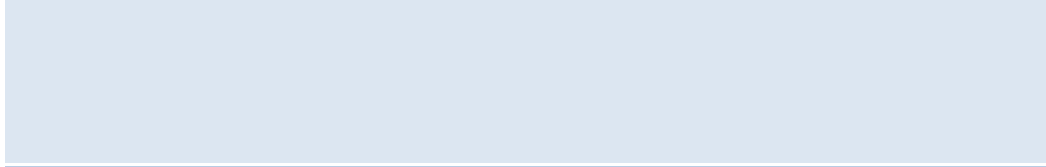
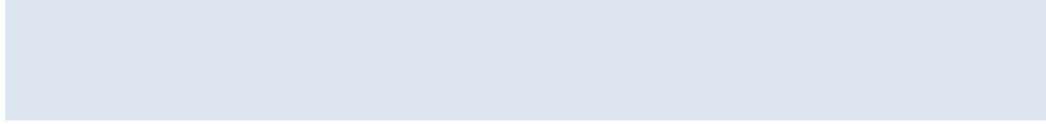
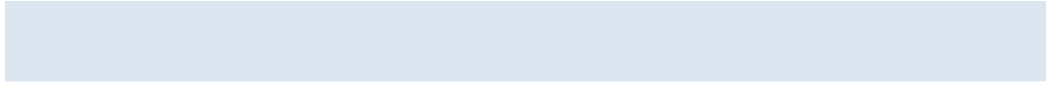
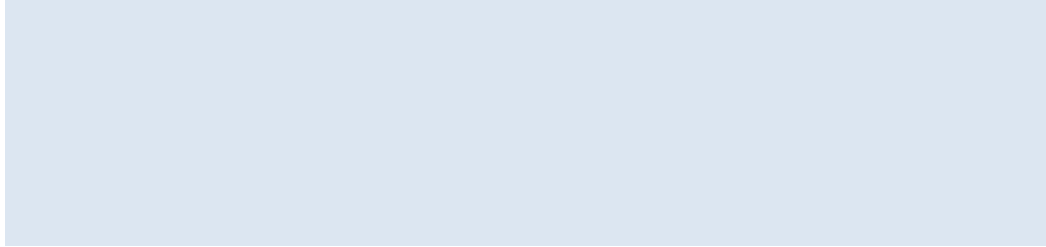
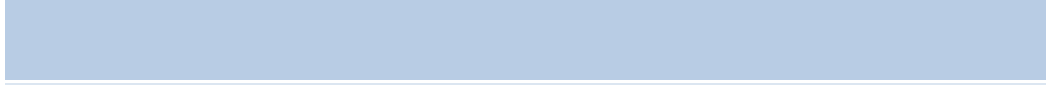
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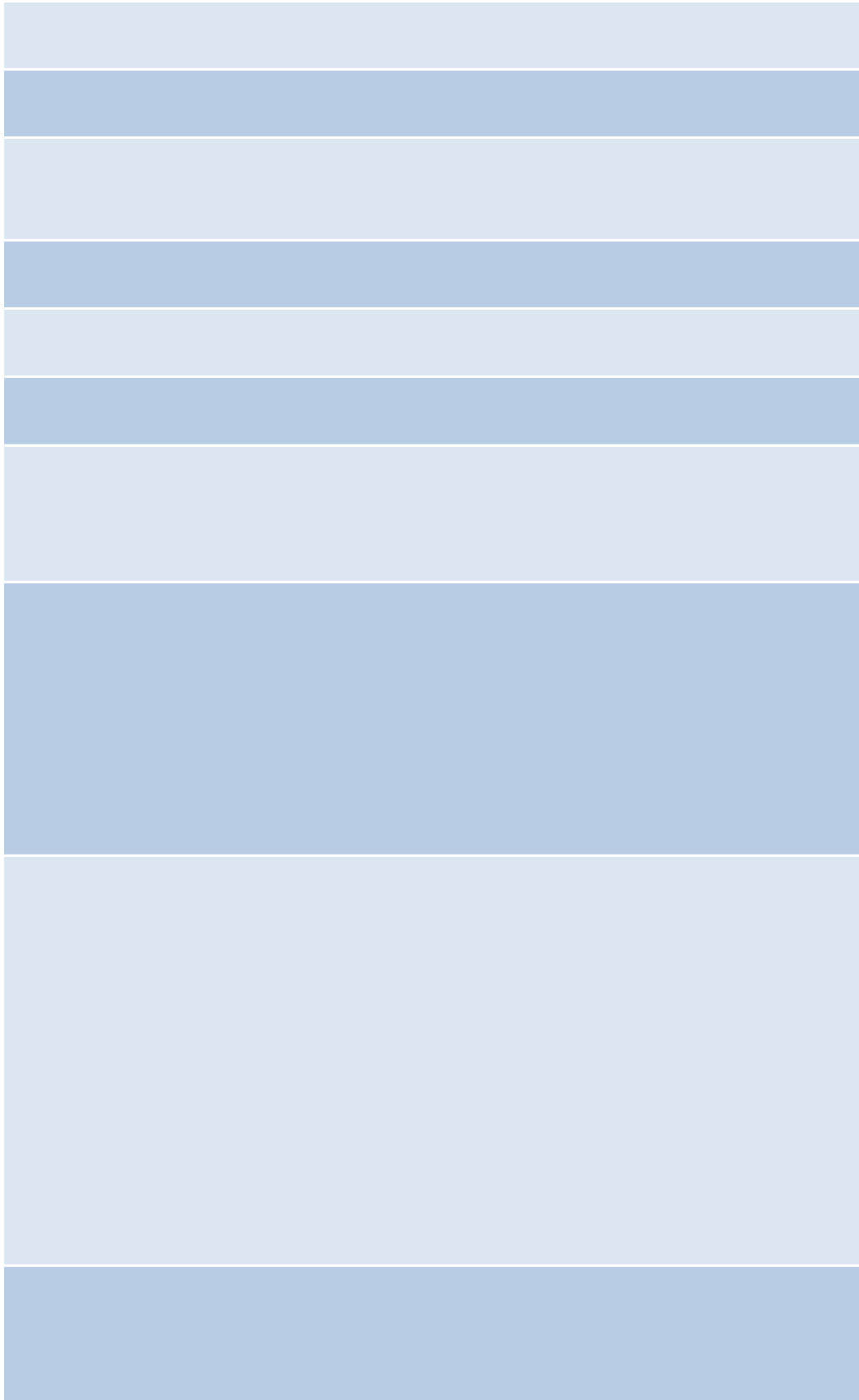
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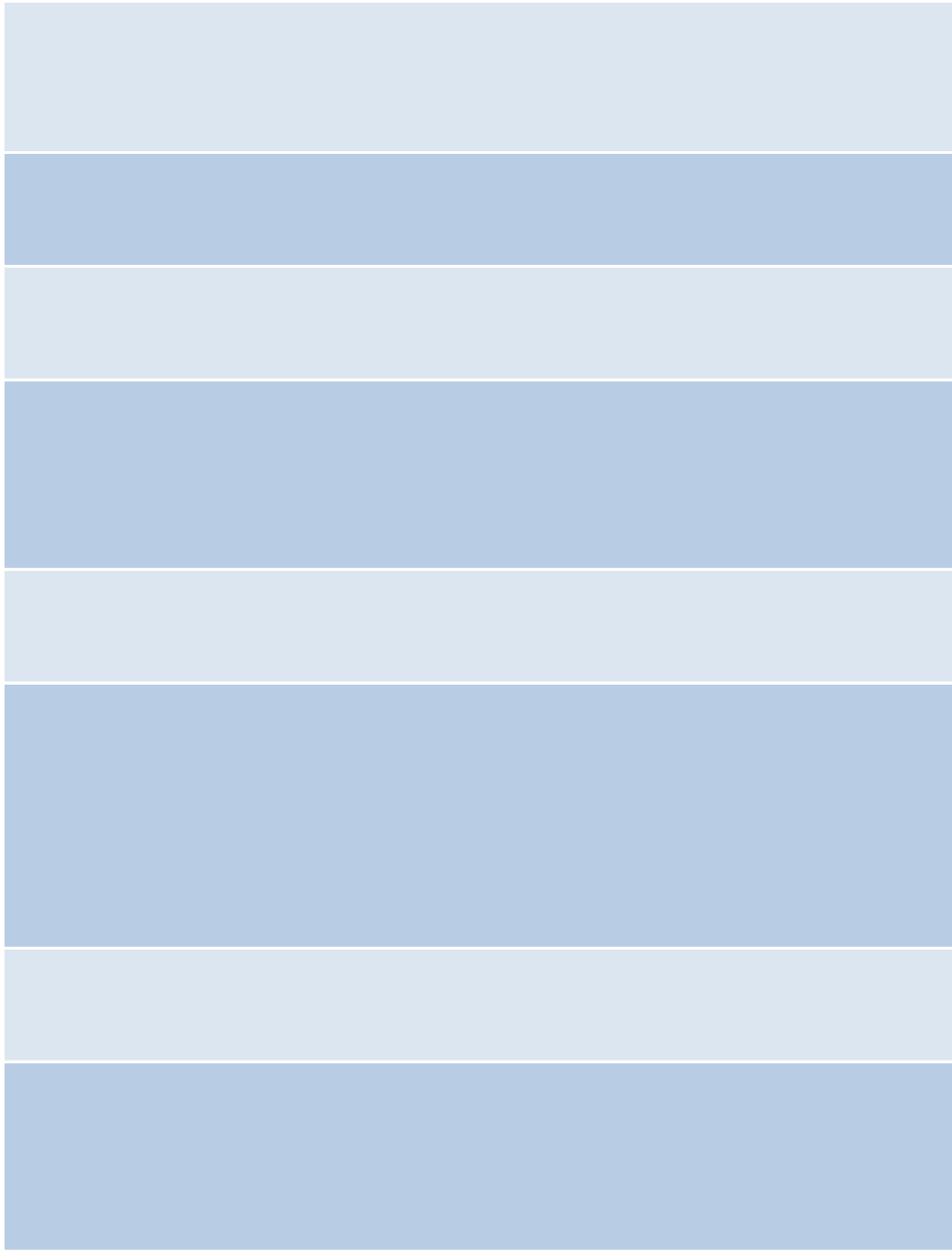




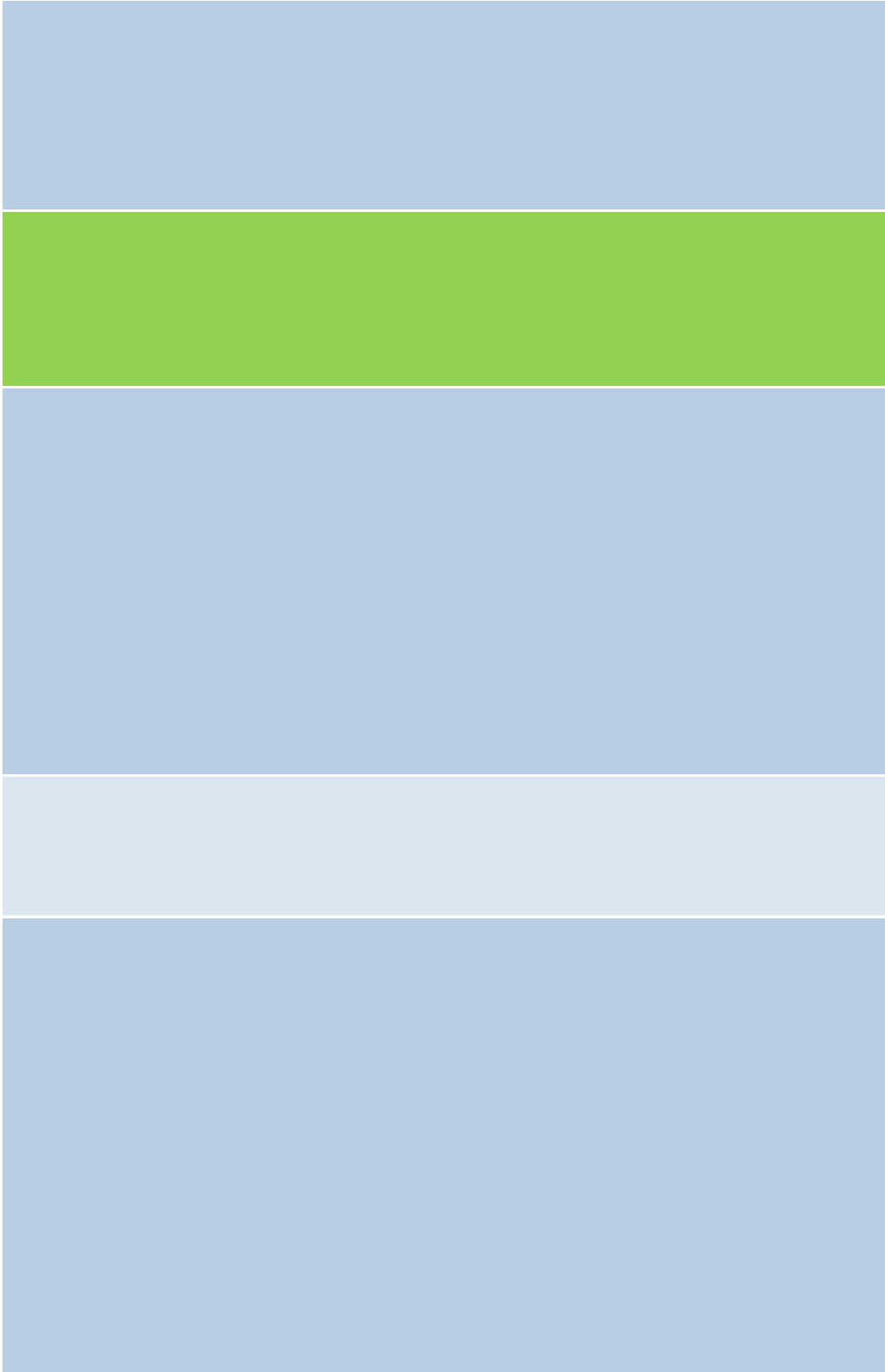


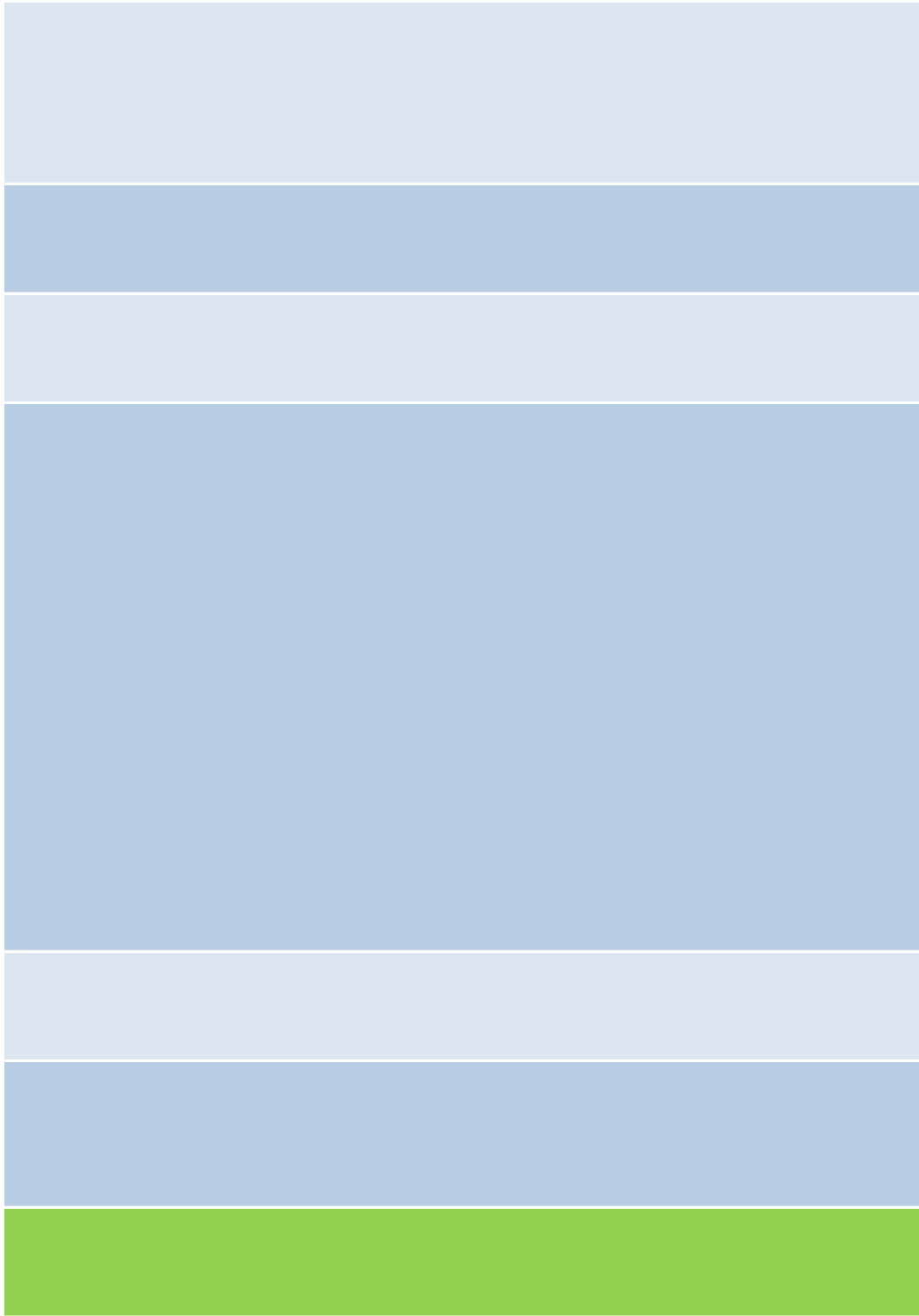


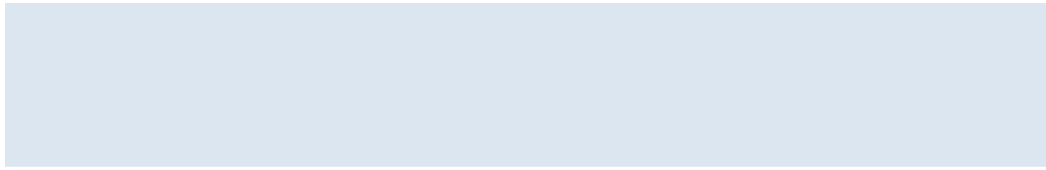




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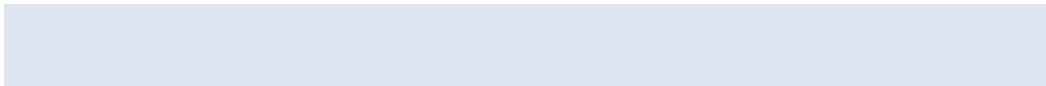
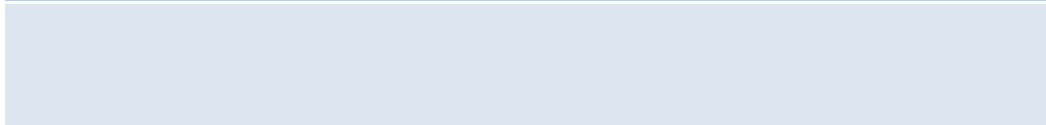
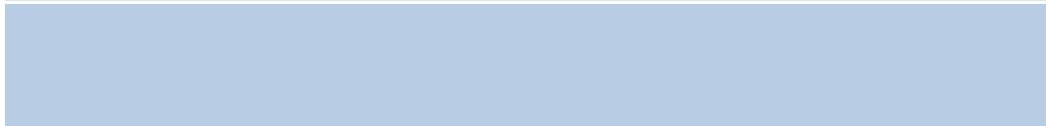


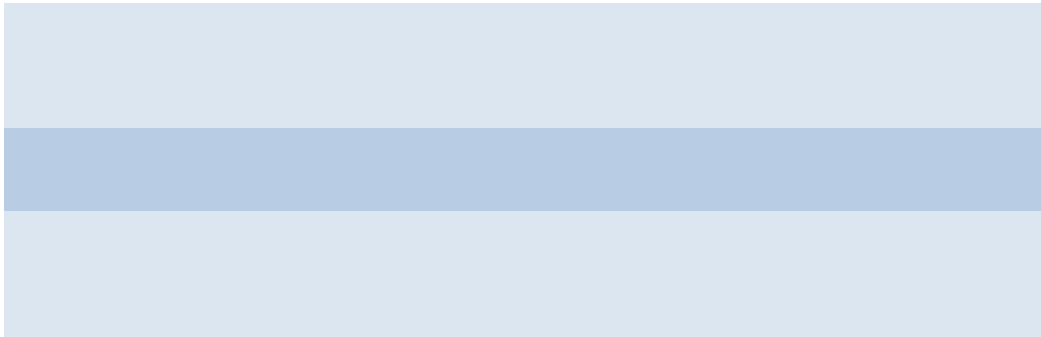




See Seattle Regional Economy

See Seattle Regional Economy





Scored on a scale of 0 to 10 based on minimum / max of data for all cities.

Scored on a scale of 0 to 10 based on minimum / max of data for all cities.

Scored on a scale of 0 to 10.





## Clean Water

Indicator	Unit of Measurement	Target
Water Quality	Water Quality Index for Streams	
Water Quality	1. Dissolved Oxygen concentration, 2. electrical conductivity, 3. phosphorous concentration, 4. suspended solids	
Water Quantity	1. Freshwater availability per capita, 2. internal groundwater availability per capita	
Population with Drinking Water meeting Standards	Percentage: Chemical, Bacteriological, Protozoal	
Nitrogen in Rivers and Streams	Parts per billion (micrograms per liter)	

Biological Health of Rivers and Streams	Macroinvertebral Community Index (MCI): < 80 = poor water quality, > 119 = excellent water quality	
Lake Water Quality	Changes in nutrient levels, Trophic Level Index: total nitrogen and phosphorous, visual clarity, and algal biomass)	
Ground Water Quality	Trend in Ground Water Nitrate Concentrations and e. coli	
Bacterial Pollution in Swimming Spots, Lakes, and Rivers	Proportion that 95-100% of samples comply with standards, e. coli	
Water Allocation Compared with Total Water Resource	Water Stress & Cubic meters per second	
Status of freshwater quality for protecting aquatic life	scale (poor-excellent)	
Nutrients in freshwater, nitrogen and phosphorous		
Potable Water Conservation ACTION: Reduce per capita water consumption 10% by 2015.		

Annual per capita water consumption in gallons		
Daily per capita water consumption in gallons		
Citywide water use in gallons		
Estimated residential water use in gallons		
Estimated commercial water use in gallons		
Gallons of water use savings due to water conservation programs (cumulative from 1991)		
Water Source Protection ACTION: Protect the ecological integrity of the City's primary drinking water sources.		
Water quality tests performed annually		
Water quality violations annually		
Total number of City wells		

Wells above maximum contaminant level (MCL) for perchlorate		
Wells above MCL for nitrate		
Wells above MCL for volatile organic compounds		
Gallons of water produced from local groundwater		
Percent of City's total water supply produced from local groundwater		
Percent of City's total water supply purchased from the Metropolitan Water District		
Percent of wells inactive due to contamination		
Gallons of water per second produced from active wells		
Gallons of water per second potential production from currently inactive wells		
Gallons of water stored in the Raymond Basin		

Unused storage capacity in the Raymond Basin (gallons)		
Total spreading grounds capacity (gallons per second)		
Acre-feet of spreading credits in the Arroyo Seco		
Acre-feet of spreading credits in Eaton Canyon		
Waste Water Reduction ACTION: Adopt municipal wastewater management guidelines; reduce the volume of untreated wastewater discharges 10% by 2012.		
Gallons per day of citywide wastewater		
Number of residential sewer accounts		
Number of commercial and industrial sewer accounts		
Acre feet of wastewater generated by the residential sector		

Acre feet of wastewater generated by the commercial sector		
Acre feet of wastewater generated by the municipal sector		
Number of sewer spills		
Gallons of wastewater discharged from sewer spills		
Annual \$ investment in the Los Angeles/Glendale Water Reclamation Plant (LAGWRP)		
Percent of reclaimed water received and used in the City		
Reduce urban runoff	Percent of permeable land area	Upward trend

Percent of open space that is permeable		Upward trend
# of contaminated sites, # of superfund sites		Downward trend
Pounds of pesticide applied for non-residential purposes in the county, % classified as "most toxic"		
# of Beach closures		
# of sanitary sewer overflows		
Average per capita residential consumption of water		
Establishment of the 14 Best management practices for water conservation by the CA Urban Water Conservation Council (CUWCC)		

Water User Per Capita	Total water for residents, commercial, and industrial averaged per resident per day	
Gallons per day of water used per capita		
acre-feet of recycled water used		
Per capita water consumption		Down



Mass of pollutants in wastewater		Down
Mass and frequency of combined sewer overflows		Down
Recycled water use		Up
Coastal Water Quality	Beach Mile Days of Ocean Water Postings and Closures; Number of reported sewage spills	
Water Use and Supply	Total acre-feet of water used; gallons per person per day;	

Action: Water access and Efficiency	Increase accessibility and reduce consumption	Increase adequate access to drinking water; If potable water consumption is more than 100 liters (26.4 gallons) per capita per day, reduce consumption by 10 % by 2015.
Action: source water conservation	Protect Drinking Water Sources	Protect the ecological integrity of the city's primary drinking water sources (i.e., aquifers, rivers, wetlands and associated ecosystems).
Water Resources	Total water consumption in acre-feet; per capita urban water consumption in gallons per day	
Water Quality	Total number of beach closing or advisory days	
drinking water quality	Average contaminants (TTHM and lead)	

watershed quality	Total coliform (colonies/100ml) in selected creeks and sites; turbidity	EPA's recommendations for fecal coliform bacteria: body contact - 200, fishing and boating - 1000, water supply for treatment - 2000, drinking water standard - 1
rivers and streams	Percent of assessed rivers and streams that support aquatic life (not supporting, partially supporting, supported but threatened, supported), same for assessed rivers that support swimming	
groundwater and drinking water	Top 10 possible contaminating activities and their possible contaminants	
Water Quality	number of total health based violations in Arizona by County	
Level of the aquifer		
Citizen satisfaction with water quality		
Days that Tucson operated with no violations of federal clean air and water standards		

Per capita urban potable water use per year		
Economic value generated (1) per potable urban water use; (2) per non-urban water use.		
Percent increase in urban water used more than one time		
Annual change in real dollar water costs per account.		
Percent annual reduction in peak day (or relevant period for water planning) of urban water use		
Market prices of water costs as percentage of estimated total water costs including non-market externalities		
Municipal water shares relative to water demand		
Percent water projects planned with regional cooperation		
Meaningful community involvement (i.e. decision-making) in water planning		
Level of regional groundwater aquifers		

Percent of groundwater free from contamination		
Urban (tap) water quality		
Perceived urban (tap) water quality		
Natural capital damage from new water supply projects		
Percent of assessed water bodies (groundwater and surface water) meeting established quality standards		
Alignment of sediment levels in waterways with natural levels (dissolved oxygen, TDS, nutrients, temperature, etc.)		
Alignment of streamflows with natural levels (volume		
IEPA Recognized Watershed Plans	Number of Watershed Plans	

Number of Impaired Stream Miles

Miles

Stormwater

Healthy Lakes

Septic permits/sewer hookup

Reduce total water use per capita

Achieve 0 days not meeting drinking water quality standards

Increase proportion of sewage and industrial waste discharged treated to reusable quality		
Decrease amount of sewage and industrial waste discharged to streams or oceans		
Water (effects on ecosystem)	WATER_E	4.166666667
Water consumption per capita	quantitative - total water consumption, gallosn per person per day	

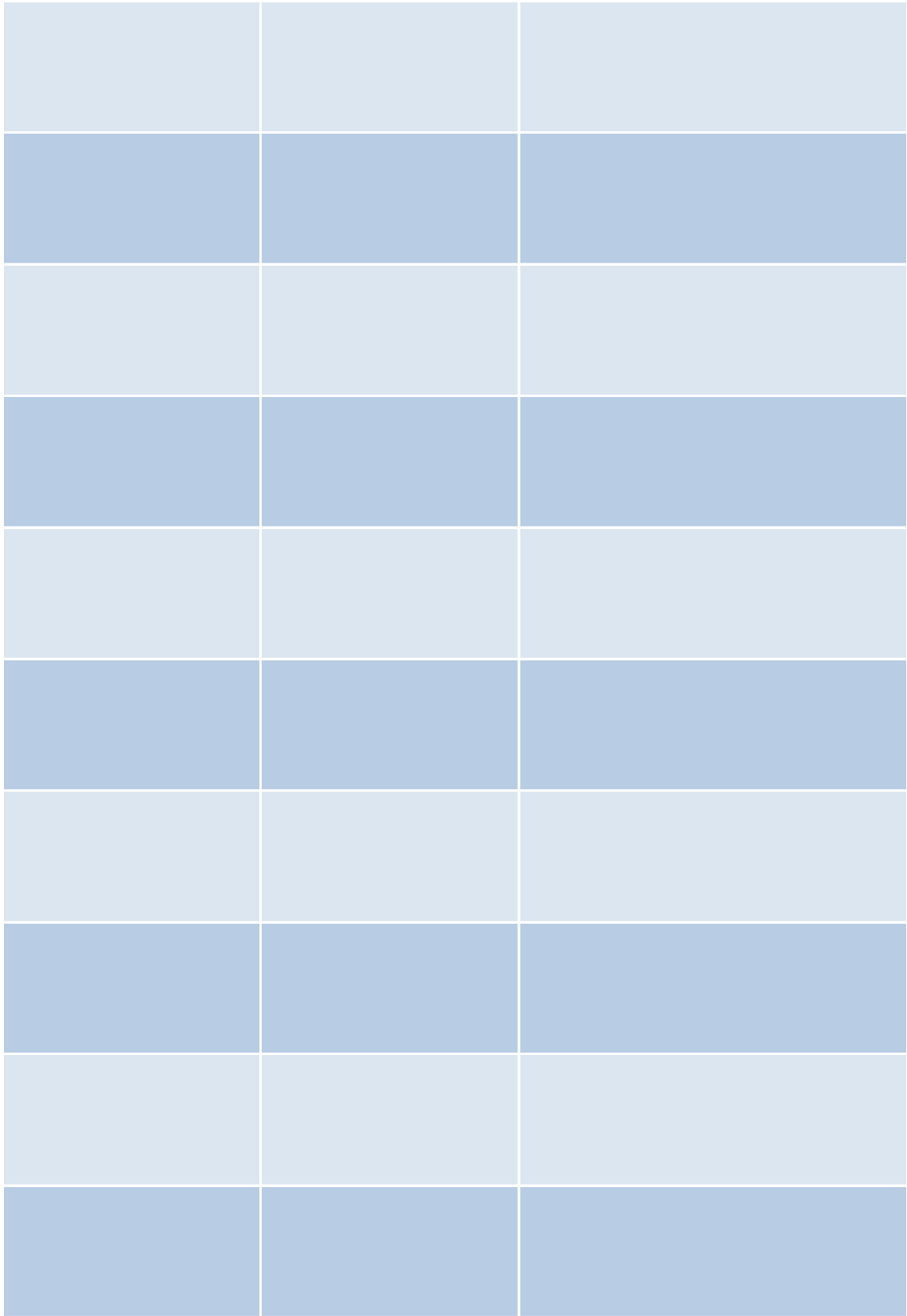
Water system leakages	quantitative - share of non-revenue public water leakages.	
Water quality policy	qualitative - assessment of the level and quality of a city's main water sources.	
stormwater management policy	qualitative - indication of wheter a city has a stormwater management plan.	



Method of Measurement	Data Source	Why is this important?
measure a geographically-limited snapshot using WQI data (aggregate of physical chemistry data)	Water Quality Index	Potential to connect to our health, environmental protection, and the attractiveness of recreational amenities. It also connects to land-use planning issues, as poor siting and unmanaged growth contribute significantly to surface water

water quality stations	Environment Canada	
water quality stations	Environment Canada	







Blue	Blue	Blue
Light Blue	Light Blue	Light Blue
Green	Green	Green
Green	Green	Green
Blue	Blue	Blue
Light Blue	Light Blue	Light Blue
Blue	Blue	Blue

		In a sustainable state the number of contaminated sites decreases over time and new cases of contamination are identified and remediated promptly.
	CA Department of Pesticide Regulation	A sustainable state is one where the most toxic pesticides are eliminated from use and nontoxic management practices are widespread.
		In a sustainable state the presence of harmful pollutants in water is minimal, and marine habitats are healthy and support native species.
		A sustainable state is one where water supplies and demand for water resources are in balance and there is a diversity of supply to reduce the risk of shortages or disruptions from any single source.

	<p>U.S. Geological Survey's Water Resources Division, at <a href="http://water.usgs.gov/watuse">http://water.usgs.gov/watuse</a>.</p>	<p>Clean, fresh water is an essential and limited natural resource. Ensuring the long-term sustainability of the region's water resources requires that residents and businesses employ water conservation techniques and use water as efficiently as possible.</p>
		<p>While we take our water for granted, there are limits to both the amount of water we can supply and the amount of water that can be disposed of properly. As populations grow and climate changes, water is expected to become scarcer.</p>
	<p>San Francisco Water Department</p>	



	Source: Orange County Health Care Agency, Public Health Services, Environmental Health	Waters closed to the public discourages tourists and residents from visiting. Furthermore, pollutants that enter the ocean or bays through urban runoff and sewage spills have the potential to compromise public health and endanger marine life.
	Sources: Municipal Water District of Orange County; Orange County Water District; California Department of Finance (Tables E-4)	The county's long-term sustainability will also rely on increased conservation and investment in additional water supplies, such as groundwater basin replenishment and desalination.

	Source: Metropolitan Water District	With the continuing increase of population in the region, ensuring reliable water resources to meet demand and maintaining water quality is a vital goal. In addition, how water is used would also impact the health and sustainability of the regional ecosystem.
		Good water quality is important to the well-being of human health, aquatic and terrestrial species, and the economy.
	Source(s): TUD (Sonora/Jamestown System) and GCSD annual drinking water reports.	High quality drinking water is essential to human health. Contaminated drinking water can cause disease, birth defects, infant mortality, and increased cancer rates.

	Source(s): Tuolumne County Water Quality Plan; Foothill Watershed Assessment,	High quality water in the region's watersheds is critical for ecosystem health, and for public use and enjoyment of local water bodies...
	Resident Survey	

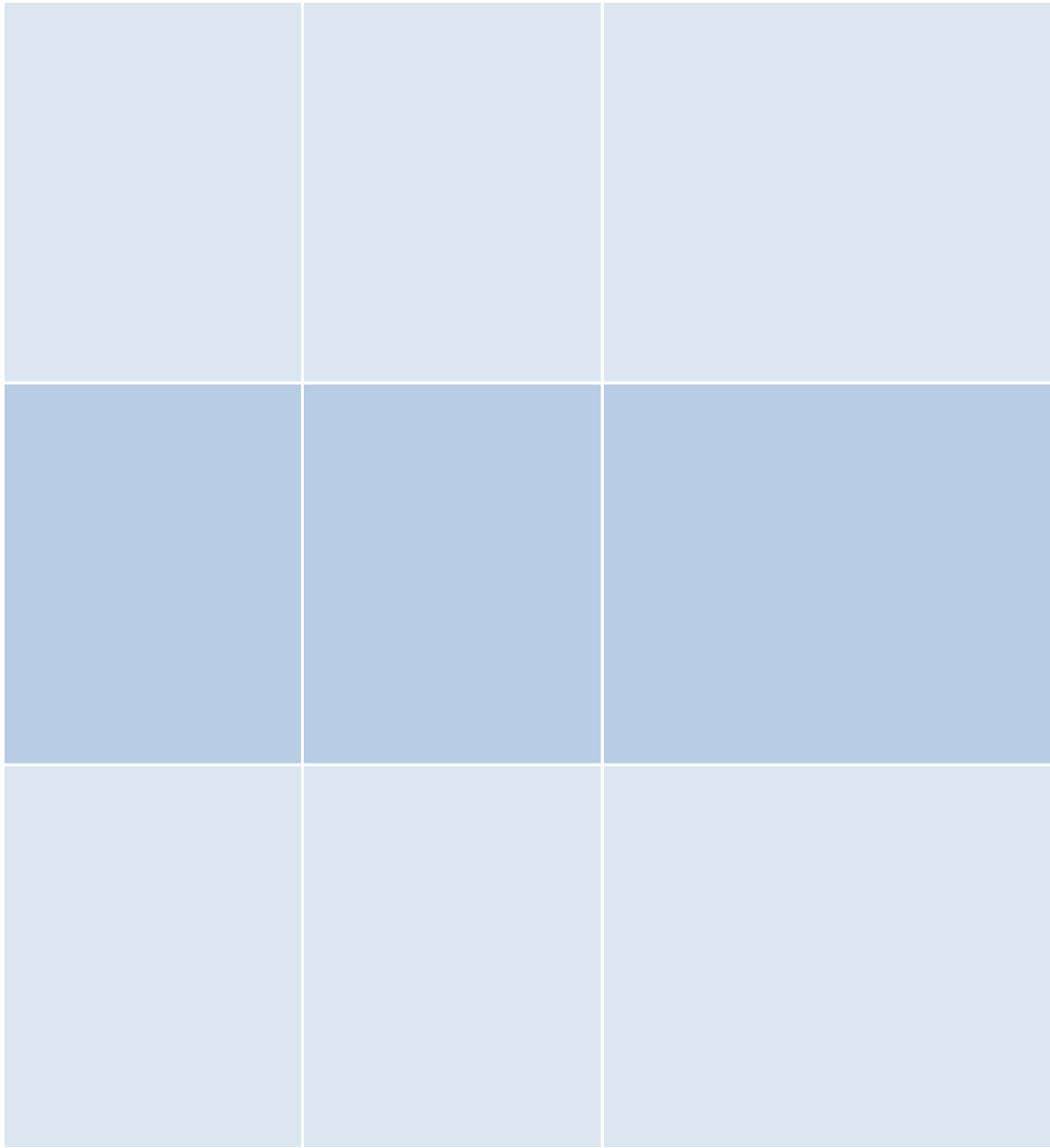
A 10x3 grid of cells. The cells are colored in a checkerboard pattern of light blue and dark blue. The top row is light blue, the second row is dark blue, and so on, alternating every row. The columns also alternate colors, starting with light blue in the first column, dark blue in the second, and light blue in the third.

Light Blue	Light Blue	Light Blue
Dark Blue	Dark Blue	Dark Blue
Light Blue	Light Blue	Light Blue
Dark Blue	Dark Blue	Dark Blue
Light Blue	Light Blue	Light Blue
Dark Blue	Dark Blue	Dark Blue
Light Blue	Light Blue	Light Blue
Dark Blue	Dark Blue	Dark Blue
Light Blue	Light Blue	Light Blue
Dark Blue	Dark Blue	Dark Blue

The U.S. Environmental Protection Agency states that nine elements be addressed in a watershed plan to qualify for Clean Water Act Funding		"Addresses surface water quality as affected by non-point source pollution." (Includes water runoff from streets and parking lots).

Measures water that does not mean clean water standards	Illinois Environmental Protection Agency	It is necessary for this water to remain clean for recreational purposes, drinking water and the support of complex ecosystems. If the water does not remain clean or get improved, then the water could become uninhabitable for aquatic life and unsafe for humans.
		containing sprawl

Water quality index	WQI	2.083333333
Water stress index*	WATSTR	1.041666667
Water scarcity index*	WSI	1.041666667





Source Principle Heading	Indicator Source	City, State, National
Nature: Regional Goals	Sustainable Pittsburgh	Regional
Environmental Systems	Environmental Sustainability Index	Global
Environmental Systems	Environmental Sustainability Index	Global
Water	Environmental Science and Research	National - New Zealand
Water	Ministry for the Environment	National - New Zealand

Water	Ministry for the Environment	National - New Zealand
Water	Ministry for the Environment	National - New Zealand
Water	Ministry for the Environment	National - New Zealand
Water	Ministry for the Environment	National - New Zealand
Water	Ministry for the Environment	National - New Zealand
Water Quality	Environment Canada	National - Canada
Water Quality	Environment Canada	National - Canada
Water	Green City Indicator Report 2010 Pasadena	City: Pasadena, CA

Water - Potable Water Conservation	Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Water - Potable Water Conservation	Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Water - Potable Water Conservation	Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Water - Potable Water Conservation	Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Water - Potable Water Conservation	Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Water - Potable Water Conservation	Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Water	Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Water - Water Source Protection	Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Water - Water Source Protection	Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Water - Water Source Protection	Green City Indicator Report 2010 Pasadena	City: Pasadena, CA



Water - Water Source Protection	Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Water - Water Source Protection	Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Water - Water Source Protection	Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Water - Water Source Protection	Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Water	Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Water - Waste Water Reduction	Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Water - Waste Water Reduction	Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Water - Waste Water Reduction	Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Water - Waste Water Reduction	Green City Indicator Report 2010 Pasadena	City: Pasadena, CA

Water - Waste Water Reduction	Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Water - Waste Water Reduction	Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Water - Waste Water Reduction	Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Water - Waste Water Reduction	Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Water - Waste Water Reduction	Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Water - Waste Water Reduction	Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Water - Waste Water Reduction	Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Environmental and Public Health - Program Level	Sustainable City Plan Revised 2006	City: Santa Monica, CA

Open Space and Land Use - System Level	Sustainable City Plan Revised 2006	City: Santa Monica, CA
Contaminated Sites	2010 Indicators Report	County: San Mateo County, CA
Pesticide Use	2010 Indicators Report	County: San Mateo County, CA
Water - Bay and Ocean Water Quality	2010 Indicators Report	County: San Mateo County, CA
Water - Bay and Ocean Water Quality	2010 Indicators Report	County: San Mateo County, CA
Water - Supply and Demand	2010 Indicators Report	County: San Mateo County, CA
Water - Supply and Demand	2010 Indicators Report	County: San Mateo County, CA

Natural Assets	State of the Bay Area: A Regional Report 2004	Region: Bay Area Alliance for Sustainable Indicators
Public Transit	2010 Environmental Index	Region: Silicon Valley (Alameda, Santa Clara, and San Mateo Counties)
Public Transit	2010 Environmental Index	Region: Silicon Valley (Alameda, Santa Clara, and San Mateo Counties)
Water and Wastewater	Sustainability Plan 1996	City: San Francisco, CA



Water and Wastewater	Sustainability Plan 1996	City: San Francisco, CA
Water and Wastewater	Sustainability Plan 1996	City: San Francisco, CA
Water and Wastewater	Sustainability Plan 1996	City: San Francisco, CA
Environment	Orange County 2011 Community Indicators	County: Orange County, CA
Environment	Orange County 2011 Community Indicators	County: Orange County, CA

Water	Greener Glendale 2010 Report	City: Glendale, CA
Water	Greener Glendale 2010 Report	City: Glendale, CA
The Environment	The State of the Region 2007	Region: Southern California Association of Governments
	The State of the Region 2007	Region: Southern California Association of Governments
Natural Resources & Recreation	Tuolumne County Profile 2008 Community Indicators Project	County: Tuolumne County, CA

Natural Resources & Recreation	Tuolumne County Profile 2008 Community Indicators Project	County: Tuolumne County, CA
Water	The Environment: Indicator Series Second Edition 2005-2008	Region: Great Central Valley
Water	The Environment: Indicator Series Second Edition 2005-2008	Region: Great Central Valley
Water Quality	Arizona Indicators ( Project Managed by Morrison Institute of Public Policy	
Clean Air and Quality Water	Tucson Arizona Government( Livable Tucson Goals)	
Clean Air and Quality Water	Tucson Arizona Government( Livable Tucson Goals)	
Clean Air and Quality Water	Tucson Arizona Government( Livable Tucson Goals)	

Water	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2031	
Water	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2032	
Water	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2033	
Water	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2034	
Water	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2035	
Water	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2036	
Water	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2037	
Water	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2038	
Water	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2039	
Water	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2040	

Water	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2041	
Water	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2042	
Water	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2043	
Water	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2044	
Water	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2045	
Water	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2046	
Water	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2047	
Environment	Metro Pulse: Chicago	Regional

Land Use	Metro Pulse: Chicago	Regional
Greenprint	Minneapolis Sustainability Indicators and Numerical Targets	Regional
Greenprint	Minneapolis Sustainability Indicators and Numerical Targets	Regional
Urban Environment	Missoula Measures	
Water, materials and Waste	(Newman and Kenworthy,1999);Assessing sustainability.a guide for local government,M Feiden and E. Hamin	
Water, materials and Waste	(Newman and Kenworthy,1999);Assessing sustainability.a guide for local government,M Feiden and E. Hamin	

Water, materials and Waste	(Newman and Kenworthy,1999);Assessing sustainability.a guide for local government,M Feiden and E. Hamin	
Water, materials and Waste	(Newman and Kenworthy,1999);Assessing sustainability.a guide for local government,M Feiden and E. Hamin	
UNEP GEMS/Water	Dissolved oxygen: 9.5mg/l (Temp<20°C), 6mg /l (Temp>=20°C); pH: 6.5 - 9mg/l; Conductivity: 500µS; Total Nitrogen: 1mg/l; Total phosphorus: 0.05mg/l; Ammonia: 0.05mg/l	
UNH Water Systems Analysis	0% territory under water stress	
FAO	0% water overuse	
	Siemens	

	Siemens	
	Siemens	
	Siemens	



Population	Link or Citation	Your Name	Notes
	<a href="http://www.sustainablepittsburgh.org/pdf/2004Indicators.pdf">http://www.sustainablepittsburgh.org/pdf/2004Indicators.pdf</a>	Lindsay S.	
	<a href="http://sedac.ciesin.columbia.edu/es/es/ESI2005.pdf">http://sedac.ciesin.columbia.edu/es/es/ESI2005.pdf</a>	Lindsay S	
	<a href="http://sedac.ciesin.columbia.edu/es/es/ESI2005.pdf">http://sedac.ciesin.columbia.edu/es/es/ESI2005.pdf</a>	Lindsay S	
	<a href="http://www.stats.govt.nz/browse_for_stats/environment/sustainable_dev">http://www.stats.govt.nz/browse_for_stats/environment/sustainable_dev</a>	Emily	
	<a href="http://www.stats.govt.nz/browse_for_stats/environment/sust">http://www.stats.govt.nz/browse_for_stats/environment/sust</a>	Emily	

	<a href="http://www.stats.govt.nz/browse_for_stats/environment/sustainable_dev">http://www.stats.govt.nz/browse_for_stats/environment/sustainable_dev</a>	Emily	
	<a href="http://www.stats.govt.nz/browse_for_stats/environment/sustainable_dev">http://www.stats.govt.nz/browse_for_stats/environment/sustainable_dev</a>	Emily	
	<a href="http://www.stats.govt.nz/browse_for_stats/environment/sustainable_dev">http://www.stats.govt.nz/browse_for_stats/environment/sustainable_dev</a>	Emily	
	<a href="http://www.stats.govt.nz/browse_for_stats/environment/sustainable_dev">http://www.stats.govt.nz/browse_for_stats/environment/sustainable_dev</a>	Emily	
	<a href="http://www.stats.govt.nz/browse_for_stats/environment/sustainable_dev">http://www.stats.govt.nz/browse_for_stats/environment/sustainable_dev</a>	Emily	
	<a href="http://www.ec.gc.ca/indicateurs-indicators/default.asp?lang=En&amp;n=68DE8F72-1">http://www.ec.gc.ca/indicateurs-indicators/default.asp?lang=En&amp;n=68DE8F72-1</a>	Emily	
	<a href="http://www.ec.gc.ca/indicateurs-indicators/default.asp?lang=En&amp;n=68DE8F72-1">http://www.ec.gc.ca/indicateurs-indicators/default.asp?lang=En&amp;n=68DE8F72-1</a>	Emily	
137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>	Medora	







137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>	Medora	
137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>	Medora	
137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>	Medora	
137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>	Medora	
137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>	Medora	
137,122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>	Medora	
89,736	<a href="http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf">http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainability/Sustainable-City-Plan.pdf</a>	Medora	



7,468,390	<a href="http://www.bayareaalliance.org/indicators.pdf">http://www.bayareaalliance.org/indicators.pdf</a>	Medora	
4,010,364	<a href="http://www.sustainablesv.org/sites/default/files/dms/svep-2010-environmental-indicatorsfinal.pdf">http://www.sustainablesv.org/sites/default/files/dms/svep-2010-environmental-indicatorsfinal.pdf</a>	Medora	
4,010,364	<a href="http://www.sustainablesv.org/sites/default/files/dms/svep-2010-environmental-indicatorsfinal.pdf">http://www.sustainablesv.org/sites/default/files/dms/svep-2010-environmental-indicatorsfinal.pdf</a>	Medora	
3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf">http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf</a>	Medora	



3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf">http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf</a>	Medora	
3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf">http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf</a>	Medora	
3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf">http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf</a>	Medora	
3,010,232	<a href="http://egov.ocgov.com/vgnfiles/ocgov/CEO/Docs/2011%20Community%20Indicators.pdf">http://egov.ocgov.com/vgnfiles/ocgov/CEO/Docs/2011%20Community%20Indicators.pdf</a>	Medora	
3,010,232	<a href="http://egov.ocgov.com/vgnfiles/ocgov/CEO/Docs/2011%20Community%20Indicators.pdf">http://egov.ocgov.com/vgnfiles/ocgov/CEO/Docs/2011%20Community%20Indicators.pdf</a>	Medora	

191,719	<a href="http://www.greenerglendale.org/pdf/GreenerGlendale2010ReportFINAL.pdf">http://www.greenerglendale.org/pdf/GreenerGlendale2010ReportFINAL.pdf</a>	Medora	
191,719	<a href="http://www.greenerglendale.org/pdf/GreenerGlendale2010ReportFINAL.pdf">http://www.greenerglendale.org/pdf/GreenerGlendale2010ReportFINAL.pdf</a>	Medora	
18 million	<a href="http://www.scag.ca.gov/publications/pdf/2007/SOTR07/SOTR07_FullReport_lores.pdf">http://www.scag.ca.gov/publications/pdf/2007/SOTR07/SOTR07_FullReport_lores.pdf</a>	Medora	
18 million	<a href="http://www.scag.ca.gov/publications/pdf/2007/SOTR07/SOTR07_FullReport_lores.pdf">http://www.scag.ca.gov/publications/pdf/2007/SOTR07/SOTR07_FullReport_lores.pdf</a>	Medora	
55,365	<a href="http://www.tuolumnecountyprofile.org/">http://www.tuolumnecountyprofile.org/</a>	Medora	

55,365	<a href="http://www.tuolumneco.org/">http://www.tuolumneco.org/</a>	Medora	
6.5 million	<a href="http://www.greatvalley.org/indicators/">http://www.greatvalley.org/indicators/</a>	Medora	
6.5 million	<a href="http://www.greatvalley.org/indicators/">http://www.greatvalley.org/indicators/</a>	Medora	
	<a href="http://arizona.org/sustainability/ozone">http://arizona.org/sustainability/ozone</a>	Naana	
	<a href="http://cms3.tucsonaz.gov/livable/lv-toc">http://cms3.tucsonaz.gov/livable/lv-toc</a>	Naana	
	<a href="http://cms3.tucsonaz.gov/livable/lv-toc">http://cms3.tucsonaz.gov/livable/lv-toc</a>	Naana	
	<a href="http://cms3.tucsonaz.gov/livable/lv-toc">http://cms3.tucsonaz.gov/livable/lv-toc</a>	Naana	



	www.ppacg.org/Envir/PP SIProject.pdf	Naana	
	www.ppacg.org/Envir/PP SIProject.pdf	Naana	
	www.ppacg.org/Envir/PP SIProject.pdf	Naana	
	www.ppacg.org/Envir/PP SIProject.pdf	Naana	
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	www.ppacg.org/Envir/PP SIProject.pdf	Naana	
	www.ppacg.org/Envir/PP SIProject.pdf	Naana	
	<a href="http://www.metropulsechicago.org/">http://www. metropulsec hicago.org/</a>	Lindsay W.	

	<a href="http://www.metropulsechicago.org/">http://www.metropulsechicago.org/</a>	Lindsay W.	
	<a href="http://www.ci.minneapolis.mn.us/sustainability/docs/2010IndicatorsMatrix.pdf">http://www.ci.minneapolis.mn.us/sustainability/docs/2010IndicatorsMatrix.pdf</a>	Lindsay W.	
	<a href="http://www.ci.minneapolis.mn.us/sustainability/docs/2010IndicatorsMatrix.pdf">http://www.ci.minneapolis.mn.us/sustainability/docs/2010IndicatorsMatrix.pdf</a>	Lindsay W.	
	<a href="http://www.co.missoula.mt.us/measures/UrbanEnvironment/Sewer.htm">http://www.co.missoula.mt.us/measures/UrbanEnvironment/Sewer.htm</a>	Tim	
		Naana	
		Naana	

		Naana	
		Naana	
	<a href="http://epi.yale.edu/Files">http://epi.yale.edu/Files</a>	Emma	
	<a href="http://epi.yale.edu/Files">http://epi.yale.edu/Files</a>	Emma	
	<a href="http://epi.yale.edu/Files">http://epi.yale.edu/Files</a>	Emma	
	<a href="http://www.siemens.com/entry/cc/features/greencityindex_international/all/en/pdf/report_northamerica_en.pdf">http://www.siemens.com/entry/cc/features/greencityindex_international/all/en/pdf/report_northamerica_en.pdf</a>	Emma	

	<a href="http://www.siemens.com/entry/cc/features/greencityindex_international/all/en/pdf/report_northamerica_en.pdf">http://www.siemens.com/entry/cc/features/greencityindex_international/all/en/pdf/report_northamerica_en.pdf</a>	Emma	
	<a href="http://www.siemens.com/entry/cc/features/greencityindex_international/all/en/pdf/report_northamerica_en.pdf">http://www.siemens.com/entry/cc/features/greencityindex_international/all/en/pdf/report_northamerica_en.pdf</a>	Emma	
	<a href="http://www.siemens.com/entry/cc/features/greencityindex_international/all/en/pdf/report_northamerica_en.pdf">http://www.siemens.com/entry/cc/features/greencityindex_international/all/en/pdf/report_northamerica_en.pdf</a>	Emma	





## Native Plants & Animals

### Indicator

Ecosystem Health

Number of Threatened Species

Distribution of Selected Native Species

Area of Native Land Cover

Proportion of Assessed Fish Stocks Below Target Levels

Distribution of Selected Pest Animal and Weed Species

Biodiversity

Reducing Ecosystem Stress

Protected Habitats

Changes in wildlife species disappearance risks

General Status of Species

Habitat Protection ACTION: Protect critical habitat corridors and other key habitat characteristics from unsuitable/unsustainable development

Habitat acres in the City

Acres of protected habitat

Acres of habitat restored

New funding secured for habitat restoration

Number of acres of public open space by type

% of new or replaced, non-turf, public landscaped area and non-recreational turf area planted with regionally appropriate plants

Exotic Pests Intercepted (A rating and Q rating)

Bird counts of common raven

Bird counts of acorn woodpecker

Bird counts of california quail

# of threatened and endangered species

Ecological Health of Water Bodies

Ecological Footprint

Toxic Release Inventory

Acres of open space by type: grassland, hillsides, forests

Percentage of tidal wetland marsh remaining (since before human settlement);

# of volunteer hours dedicated towards managing, monitoring, and conserving biodiversity

# of square feet of the worst invasive species removed from natural areas

# of surviving indigenous native plant species planted in developed parks, private landscapes, and natural areas

Abundance and species diversity of birds, as indicated by the Golden Gate Audobon Society's Christmas bird counts

Acres of habitat restored

Number of hazardous materials incidents

Number of seismically upgraded buildings

Action: Habitat Restoration - Canopy Coverage

Action: Wildlife - Protecting Habitat

beach closures and advisories

wildlife - deer

wildlife - winter bird count

forest health



environmental water use

pesticide use

rare and endangered species

riparian habitats

waterfowl

Annual decline in severity of invasive species problems

Percent residents that are literate about ecological land management

Percent of natural capital that is monetized and formally included in major regional land-use and economic development planning/decisionmaking

Ratio of protected natural desert to total developed land

Area of preserved or restored urban washes and wildlife corridors

Population and diversity of key native wildlife species

Miles of trails and bikeways in desert preserves in eastern Pima County

Number of Invasive Fish Species

Wildlife Habitat

Conservation Easements Issued-

Drinking Water Quality

County Park Land

Fiscal year per capita spending on recreation

Preservation of open space

Wetland acreage

Prsence of Aquatic Invasive Species by County

Biodiversity & Habitat

Forestry

Fisheries\*

Agriculture

Unit of Measurement	Target
health and numbers of indicator species (both flora and fauna)	continued upward trending
Taxonomic Groups/Species	
Species, using selected native indicator species	
Percent by Cover Class	
Stock Proportion Relative to Target Levels	
Species/million hectares	
1. Percentage of a country's territory in threatened ecoregions 2. Threatened bird species as a percentage of known breeding bird species 3. Threatened mammal species as a percentage of known mammal species 4. Threatened amphibian species as a percentage of known amphibian species 5. National Biodiversity Index	
1. Annual average forest cover change rate from 1990-2000 2. Acidification exceedance from anthropogenic sulfur deposition	

Proportion of area protected, land and marine	
Percent change	
Number of species per status	
(beaches, parks, public gathering places, gardens and other open public lands)	Upward trend
	TBD

	Upward trend
	Upward trend
	Upward trend

Nutrient contaminants (nitrogen, ammonium, and phosphorus, much of which is from municipal wastewater);  
Toxic Contaminants (PCBs and mercury, from industrial ag and commercial);  
Biological contaminants (from exotic species, like the asiatic clam that decreases phytoplankton)

Per capita ecological footprint; by type of land used (energy land, crop land, pasture, forest, built area, fishing grounds)

Pounds of core toxic release chemicals released

(Also, percent of borrowing oil sites still in existence since 1988)



(Also, bird counts of the Clapper Rail)

Up

Up

Up

Up

	Up
	Down
	Up
	Conduct an inventory of existing canopy coverage in the city, then establish a goal based on ecological and community considerations to plant and maintain canopy coverage in not less than fifty percent of all available sidewalk planting sites.
	Pass legislation that protects critical habitat corridors and other key habitat characteristics (e.g. water features, food-bearing plants, shelter for wildlife, use of native species, etc. ) from unsustainable development.
Number of beach mile days of closure or advisories	

3-year rolling average of number of fawns per 100 does

stability

audobon society's total winter bird count; total eagle count

(1) the number of acres that are treated to reduce hazardous fuels in our forest and woodlands, (2) the wildland fires by number and acres.

<p>% of water designated for use in wild and scenic rivers, instream flows, etc.</p>	
<p>Pounds of pesticide active ingredients per crop acre harvested; pounds of pesticide active ingredients applied in productive agriculture</p>	
<p># of de facto rare and endangered species located in county</p>	
<p>acres of riparian habitat; acres lost</p>	
<p># of species and population</p>	

Number of distinct invasive species per watershed	
Percent	
Total Acres	
Number of wells with perc contamination	
Acres	
\$/capita	

satisfaction about preservation of open space/habitats	
acres/person	
Number of distinct invasive species per watershed	
BIODIV	4.166666667
FOREST	4.166666667
FISH	4.166666667
AGCLTR	4.166666667

Method of Measurement	Data Source
<p>Ex: 5-year moving average for bird counts. Need to determine the appropriate population levels at which these indicator species signal an ecological balance within their natural ecosystems. And, need to consider the size and extent of different ecosystem types necessary to support those species and their functions</p>	<p>Audobon Society, local universities</p>
Surveys	
Survey/Assessments	







US geological survey; San Fran  
estuary institute

Redefining Progress  
<http://www.ecologicalfootprint.org/>

US EPA:  
<http://www.epa.gov/triexplorer/>





California Department of Fish and Game in partnership with Stanislaus National Forest.

Source: audobon society

Source: agency contact







subjective survey about feelings of residents	telephone/face-to-face survey
	Anchorage Planning Department
Invasive species constitute a great danger to aquatic biodiversity.	
Biome protection	PACOV
Marine protection*	MPAEEZ
Critical habitat protection*	AZE
Growing stock change*	FORGRO
Forest cover change*	FORCOV
Marine trophic index	MTI
Trawling intensity	EEZTD
Agricultural water intensity*	AGWAT
Agricultural subsidies	AGSUB
Pesticide regulation	AGPEST

Why is this important?	Source Principle Heading
<p>healthy ecosystems connect directly to healthy human beings. Indicator species signal an ecological (in)balance with their natural ecosystems. Biological diversity and environmental connections form the</p>	Nature: Regional Goals
	Biodiversity
	Biodiversity
	Biodiversity
	Biodiversity
	Biodiversity
	Environmental Systems
	Reducing Environmental Stresses

	Environmental
	Environmental
	Environmental
	Urban Nature
	Urban Nature - Habitat Protection
	Urban Nature - Habitat Protection
	Urban Nature - Habitat Protection
	Urban Nature - Habitat Protection
	Urban Nature - Habitat Protection
	Open Space and Land Use - System Level
	Open Space and Land Use - System Level

In a sustainable state ecosystems are healthy and land use decisions include habitat protection.	Habitat Protection
The common raven because its population is closely tied to human presence and disturbance.	Habitat Protection
The acorn woodpecker because it is a cavity nester that depends on oak habitats for survival.	Habitat Protection
The California quail because it is a ground-nesting species vulnerable to human disturbance.	Habitat Protection
	Habitat Protection

Some of the most important causes of ecosystem change are the impacts of nutrient, toxic and biological contaminants (also known as invasive species) on plants and animals. Apart from the significant environmental considerations, eating fish caught in the Bay has been one way for lower income (and other) people to supplement their diet with a low/no cost source of protein. Toxic contamination reduces or eliminates this option.

### Natural Assets

<p>The Ecological Footprint measures the use of nature by humanity. Footprints can be compared to the biological capacity of a region or the planet. If more is taken from nature than nature can renew, the natural capital that current and future generations depend on is eroded. This liquidation of our ecological assets is called “overshoot.” Sustainability means achieving satisfying lives for the current population and future generations within the limited capacity of the planet.</p>	<p>Natural Assets</p>
<p>Toxins released to air, water and land can kill organisms, destroy local environments and harm human health.</p>	<p>Toxic Chemicals</p>
<p>The Western Burrowing Owl is a native of our region and a highly unusual owl. It is classified as a Species of Special Concern by the California Department of Fish and Game.</p>	<p>Burrowing Owls and their Habitat</p>

Wetlands help to filter contaminants and impurities, creating cleaner water for people and wildlife. They also act as a carbon sink taking in atmospheric carbon dioxide and convert it into biomass, thereby helping to combat global warming. Acre for acre, restoring wetlands is a more efficient way to store carbon than restoring forests (Trulio, Crooks and Callaway, 2007).

Wetlands and Clapper Trails

Biodiversity

Biodiversity

Biodiversity

Biodiversity

	Water and Wastewater
	Risk Management (Activities of High Environmental Risk)
	Risk Management (Activities of High Environmental Risk)
	Urban Nature
	Urban Nature
	Water



<p>Migratory deer populations are an important indicator of overall forest and wildlife health. Deer herd populations can be very dynamic</p>	<p>Natural Resources &amp; Recreation</p>
<p>Bird populations are indicators of the complexity and general biological health of our local ecosystem. Numerous species are adapted to particular areas and habitats. If an area becomes less suited for a species, the number will decrease; if more suited, numbers will increase.</p>	<p>Natural Resources &amp; Recreation</p>
<p>Healthy forests provide quality habitat for a wide range of fish, wildlife, and plant species. They are the source of our clean water, offer abundant recreation opportunities, and provide raw materials for local businesses such as the timber industry.</p>	<p>Natural Resources &amp; Recreation</p>

Setting aside water for use in wetlands, wild and scenic rivers and instream flow requirements helps to ensure that habitats and ecosystems remain healthy and functioning	Water
Pesticide use can be problematic: pests can become genetically resistant to pesticides, can run off into waterways, air, and soil.	Land
Many de facto rare and endangered species are not listed under the endangered species act. Biological diversity enhances a region's quality of life and its economic vitality	Species & Habitat
	Species & Habitat
Waterfowl are an important component of regional biodiversity.	Species & Habitat

Monitoring these species help to maintain the health of the waterways. Invasive species are a great threat to native aquatic biodiversity.	Environment
Important to preserve lakes, wetlands, wildlife, prairies and forests.	Environment
	Urban Environment
	Urban Environment
	Urban Environment
	Urban Environment

	Natural Environment
	Natural Environment
	Environment
2.083333333	IUCN, CIESIN
1.041666667	Sea Around Us Project, Fisheries Centre, UBC
1.041666667	Alliance for Zero Extinction, The Nature Conservancy
2.083333333	FAO
2.083333333	FAO
2.083333333	UBC, Sea Around Us Project
2.083333333	UBC, Sea Around Us Project
0.833333333	FAO
1.25	YCELP, OECD, World Development Report
2.083333333	UNEP-Chemicals

Indicator Source	City, State, National
Sustainable Pittsburgh	Regional
New Zealand Tatauranga Aotearoa - Dept. of Conservation	National - New Zealand
New Zealand Tatauranga Aotearoa - Dept. of Conservation	National - New Zealand
New Zealand Tatauranga Aotearoa - Ministry for the Environment	National - New Zealand
New Zealand Tatauranga Aotearoa - Ministry of Fisheries	National - New Zealand
New Zealand Tatauranga Aotearoa - Dept. of Conservation	National - New Zealand
Environmental Sustainability Index	Global
Environmental Sustainability Index	Global

Environment Canada	National - Canada
Environment Canada	National - Canada
Environment Canada	National - Canada
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Green City Indicator Report 2010 Pasadena	City: Pasadena, CA
Sustainable City Plan Revised 2006	City: Santa Monica, CA
Sustainable City Plan Revised 2006	City: Santa Monica, CA

2010 Indicators Report	County: San Mateo County, CA
2010 Indicators Report	County: San Mateo County, CA
2010 Indicators Report	County: San Mateo County, CA
2010 Indicators Report	County: San Mateo County, CA
2010 Indicators Report	County: San Mateo County, CA

State of the Bay Area: A Regional Report 2004

Region: Bay Area Alliance for  
Sustainable Indicators



State of the Bay Area: A Regional Report 2004

Region: Bay Area Alliance for Sustainable Indicators

2010 Environmental Index

Region: Silicon Valley (Alameda, Santa Clara, and San Mateo Counties)

2010 Environmental Index

Region: Silicon Valley (Alameda, Santa Clara, and San Mateo Counties)

2010 Environmental Index	Region: Silicon Valley (Alameda, Santa Clara, and San Mateo Counties)
Sustainability Plan 1996	City: San Francisco, CA
Sustainability Plan 1996	City: San Francisco, CA
Sustainability Plan 1996	City: San Francisco, CA
Sustainability Plan 1996	City: San Francisco, CA

Sustainability Plan 1996	City: San Francisco, CA
Sustainability Plan 1996	City: San Francisco, CA
Sustainability Plan 1996	City: San Francisco, CA
Greener Glendale 2010 Report	City: Glendale, CA
Greener Glendale 2010 Report	City: Glendale, CA
2011 San Diego Regional Quality of Life Dashboard	Region: San Diego Regional

Tuolumne County Profile 2008 Community Indicators Project

County: Tuolumne County, CA

Tuolumne County Profile 2008 Community Indicators Project

County: Tuolumne County, CA

Tuolumne County Profile 2008 Community Indicators Project

County: Tuolumne County, CA

The Environment: Indicator Series Second Edition 2005-2008	Region: Great Central Valley
The Environment: Indicator Series Second Edition 2005-2008	Region: Great Central Valley
The Environment: Indicator Series Second Edition 2005-2008	Region: Great Central Valley
The Environment: Indicator Series Second Edition 2005-2008	Region: Great Central Valley
The Environment: Indicator Series Second Edition 2005-2008	Region: Great Central Valley
The Environment: Indicator Series Second Edition 2005-2008	Region: Great Central Valley
Biodiversity/Ecosystem Health	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2007
Biodiversity/Ecosystem Health	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2008
Biodiversity/Ecosystem Health	Pikes Peak Sustainability Indicator,Project ( PPSIPO Project Summary Report, 2009

Protected Natural Desert Environment	Tucson Arizona Government( Livable Tucson Goals)
Protected Natural Desert Environment	Tucson Arizona Government( Livable Tucson Goals)
Protected Natural Desert Environment	Tucson Arizona Government( Livable Tucson Goals)
Protected Natural Desert Environment	Tucson Arizona Government( Livable Tucson Goals)
Metro Pulse: Chicago	Regional
Minnesota Milestones	State-Minnesota
Missoula Measures	City/County/State
Missoula Measures	City
Missoula Measures	County
Missoula Measures	City

Anchorage Community Assessment Project	City
Anchorage Community Assessment Project	City
Metro Pulse: Chicago	Regional
$\geq 10\%$ weighted average of biomes protected	
$\geq 10\%$ of country's exclusive economic zone protected	
100% of critical habitats protected	
ratio of growing stock in time2 to time1 $\geq 1$	
no decline in forest cover	
no decline	
0% of exclusive economic zone traweled	
$\leq 10\%$ of all water resources	
0 subsidies	
22 points	

Population	Link or Citation	Your Name	Notes
	<a href="http://www.sustainablepittsburgh.org/pdf/2004Indicators.pdf">http://www.sustainablepittsburgh.org/pdf/2004Indicators.pdf</a>	Lindsay S.	
	<a href="http://www.stats.govt.nz/browse_for_stats/environment/">http://www.stats.govt.nz/browse_for_stats/environment/</a>	Emily	
	<a href="http://www.stats.govt.nz/browse_for_stats/">http://www.stats.govt.nz/browse_for_stats/</a>	Emily	
	<a href="http://www.stats.govt.nz/browse_for_stats/">http://www.stats.govt.nz/browse_for_stats/</a>	Emily	
	<a href="http://www.stats.govt.nz/browse_for_stats/">http://www.stats.govt.nz/browse_for_stats/</a>	Emily	
	<a href="http://www.stats.govt.nz/browse_for_stats/">http://www.stats.govt.nz/browse_for_stats/</a>	Emily	
	<a href="http://sedac.ciesin.columbia.edu/es/esi/ESI2005.pdf">http://sedac.ciesin.columbia.edu/es/esi/ESI2005.pdf</a>	Lindsay S.	
	<a href="http://sedac.ciesin.columbia.edu/es/esi/ESI2005.pdf">http://sedac.ciesin.columbia.edu/es/esi/ESI2005.pdf</a>	Lindsay S.	



	<a href="http://www.ec.gc.ca/indicateurs-indicators/default.asp?lang=en&amp;n=478A1D3D-1">http://www.ec.gc.ca/indicateurs-indicators/default.asp?lang=en&amp;n=478A1D3D-1</a>	Emily	
	<a href="http://www.ec.gc.ca/indicateurs-indicators/default.asp?lang=en&amp;n=C48CCBC7-1">http://www.ec.gc.ca/indicateurs-indicators/default.asp?lang=en&amp;n=C48CCBC7-1</a>	Emily	
	<a href="http://www.ec.gc.ca/indicateurs-indicators/default.asp?lang=En&amp;n=37DB2E44-1">http://www.ec.gc.ca/indicateurs-indicators/default.asp?lang=En&amp;n=37DB2E44-1</a>	Emily	
137122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>	Medora	
137122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>	Medora	
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137122	<a href="http://www.ci.pasadena.ca.us/GreenCity/">http://www.ci.pasadena.ca.us/GreenCity/</a>	Medora	
89736	<a href="http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainab">http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainab</a>	Medora	
89736	<a href="http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainab">http://www.smgov.net/uploadedFiles/Departments/OSE/Categories/Sustainab</a>	Medora	

718,451	<a href="http://www.sustainablemateo.org/indicators-report/">http://www.sustainablemateo.org/indicators-report/</a>	Medora	
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718,451	<a href="http://www.sustainablemateo.org/indicators-report/">http://www.sustainablemateo.org/indicators-report/</a>	Medora	

7,468,390

<http://www.bayareaalliance.org/indications.pdf> Medora

7,468,390	<a href="http://www.bayareaalliance.org/indicators.pdf">http://www.bayareaalliance.org/indicators.pdf</a>	Medora	
4,010,364	<a href="http://www.sustainablestv.org/sites/default/files/dms/svep-2010-environmental-indicatorsfinal.pdf">http://www.sustainablestv.org/sites/default/files/dms/svep-2010-environmental-indicatorsfinal.pdf</a>	Medora	
4,010,364	<a href="http://www.sustainablestv.org/sites/default/files/dms/svep-2010-environmental-indicatorsfinal.pdf">http://www.sustainablestv.org/sites/default/files/dms/svep-2010-environmental-indicatorsfinal.pdf</a>	Medora	

4,010,364	<a href="http://www.sustainable.vt.gov/sites/default/files/dms/svep-2010-environmental-indicatorsfinal.pdf">http://www.sustainable.vt.gov/sites/default/files/dms/svep-2010-environmental-indicatorsfinal.pdf</a>	Medora	
3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf">http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf</a>	Medora	
3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf">http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf</a>	Medora	
3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf">http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf</a>	Medora	
3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf">http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf</a>	Medora	

3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf">http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf</a>	Medora	
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3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf">http://www.sfenvironment.org/downloads/library/ogresstowardsustainability.pdf</a>	Medora	
191,719	<a href="http://www.greenglendale.org/pdf/GreenerGlendale2010ReportFINAL.pdf">http://www.greenglendale.org/pdf/GreenerGlendale2010ReportFINAL.pdf</a>	Medora	
191,719	<a href="http://www.greenglendale.org/pdf/GreenerGlendale2010ReportFINAL.pdf">http://www.greenglendale.org/pdf/GreenerGlendale2010ReportFINAL.pdf</a>	Medora	
3,095,313	<a href="http://www.equinoxcenter.org/assets/images/Indicators/complete-2010-regional-dashboard-report%20.pdf">http://www.equinoxcenter.org/assets/images/Indicators/complete-2010-regional-dashboard-report%20.pdf</a>	Medora	

55,365	<a href="http://www.tuolumnecountyprofile.org/">http://www.tuolumnecountyprofile.org/</a>	Medora	
55,365	<a href="http://www.tuolumnecountyprofile.org/">http://www.tuolumnecountyprofile.org/</a>	Medora	
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6.5 million	<a href="http://www.greatvalley.org/indicators/">http://www.greatvalley.org/indicators/</a>	Medora	
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	<a href="http://www.ppacg.org/Environment/PPSIPProject.pdf">www.ppacg.org/Environment/PPSIPProject.pdf</a>	Naana	



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	<a href="http://cms3.tucson.az.gov/livable/lv-toc">http://cms3.tucson.az.gov/livable/lv-toc</a>	Naana	
	<a href="http://cms3.tucson.az.gov/livable/lv-toc">http://cms3.tucson.az.gov/livable/lv-toc</a>	Naana	
	<a href="http://www.metropulsechicago.org/">http://www.metropulsechicago.org/</a>	Lindsay W.	
	<a href="http://server.admin.state.mn.us/mm/indicator.html?Id=67&amp;G=41&amp;CI=67">http://server.admin.state.mn.us/mm/indicator.html?Id=67&amp;G=41&amp;CI=67</a>	Lindsay W.	
	<a href="http://www.co.missoula.mt.us/measurements/UrbanEnviro/ConservationEasements.htm">http://www.co.missoula.mt.us/measurements/UrbanEnviro/ConservationEasements.htm</a>	Tim	
	<a href="http://www.co.missoula.mt.us/measurements/OldFiles/DrinkingWater.htm">http://www.co.missoula.mt.us/measurements/OldFiles/DrinkingWater.htm</a>	Tim	
	<a href="http://www.co.missoula.mt.us/measurements/UrbanEnviro/OpenSpace.htm">http://www.co.missoula.mt.us/measurements/UrbanEnviro/OpenSpace.htm</a>	Tim	
	<a href="http://www.co.missoula.mt.us/measurements/UrbanEnviro/OpenSpace.htm">http://www.co.missoula.mt.us/measurements/UrbanEnviro/OpenSpace.htm</a>	Tim	



Indicator	Unit of Measurement	Target
Healthcare Access	% of population <65 that is uninsured	
Environmental Health	1. Death rate from intestinal infectious diseases 2. child death rate from respiratory diseases	
Basic Human Sustenance	1. Percentage of undernourished in total population 2. percentage of population with	
Reducing Environmental-Related Natural Disaster Vulnerability	1. Average number of deaths per million inhabitants from floods, tropical cyclones, and	
Population Access to Healthcare	the number of residents who do not have health	
Toxics Reduction ACTION: Every year identify one product, chemical or compound used within the City that		
Volume of vector control product used for vector control in City buildings		
Volume of pesticides used in City-owned parks and open space		
Volume of pesticides used in City buildings		
Categories of toxic products reduced from use by City government and/or switched to		
Municipal green procurement alerts		

Environmental Jobs ACTION: Create environmentally beneficial jobs in low-income neighborhoods		
New jobs created in Pasadena that target low-income neighborhoods		
Trainees in MASH program		
MASH trainees hired for temporary City positions for program year		
MASH trainees hired for permanent positions		
Clean/Green technology businesses in Pasadena		
Green certified businesses in Pasadena		
Number of days beaches are posted with health warnings or closed.	Measured in dry months (Apr - Oct) and wet months	0 in dry, no more than 3 in wet months
% of residents with health insurance		Upward trend
Capacity of local health service providers to meet the basic health care needs of residents		Upward trend
Public Safety: Crime rate per capita - by neighborhood, reporting district, and type (property, violent, hate)		Downward trend
Residents perception of safety: % who feel city is a safe place to live and work		Upward trend
Incidents of Abuse	Number of incidents by type (domestic, child, and elder)	Downward trend
Incidents of Abuse	% of cases prosecuted	Upward trend
Discrimination	# of reports regarding employment and	Downward trend

Discrimination	# of cases prosecuted	Upward trend
Education and Youth	drop out rate, suspension rate, substance abuse	
Empowerment: Women, minorities, and people with disabilities in leadership positions in business, Meeting basic needs: % of residents who perceive that needs are not being met for: Individual and family		Upward trend
Child abuse referrals per 1,000 children		Downward trend
Child abuse referrals by race		Recognize differences and target at risk
Child abuse referrals by category (general neglect, physical abuse, emotional abuse, sexual abuse, Child Care: Supply of licesnsed child care spaces vs. # of children needing care	also measures cost and # of children on centalized eligibility	Reduce gap
Percent of students meeting all physical fitness test standards		increasing
Percent of children covered by health insurance plans		increasing
Percentage of students with healthy weight		Increasing
Rates of crime per 100,000 population by type (violent, larceny under \$400, larceny over \$400,		Downward trend
Number of juvenile felony arrests		Downward trend
Disaster Preparedness	# of preparedness exercises, # of Community	
Average Years of Potential Life Lost (YPLL) for residents, and by race	Years lost per 10,000 residents	

Incidence of asthma, arthritis, cancer, diabetes, and heart disease		
Percentage of residents consuming sufficient vegetables and fruits		
Percentage of residents who do not exercise		
Percentage of smokers, high blood pressure, and obesity		
Percentage of residents without health insurance, also by income	percent employer-based, percent public insurance	
Annual increase in the cost of health care	Compared to inflation	
Percent increase in population, population density		
Arrest Rates	Rates of misdemeanor and felony arrests among 3-year average rates per 100 population people aged 0 to 60	
Health Insurance Coverage		
Tax Revenue	Indicator is under development	
Tax Revenue Sharing	Indicator is under development	
Number of people attending organized wellness classes		Up
Participation in organized youth programs at city recreation centers		Up
Number of items of legislation adopted by the Board of Supervisors that advance sustainability goals		Up
Percentage of budget allocated utilizing sustainability criteria		Up

Percentage of budget that is devoted to facility maintenance		Up
Number of building permits, value of building permits		
City Revenues	total assessed valuation of real and personal property,	
Annual median sales prices for single family attached and single family detached homes		Upward
Crime rates for violent crime (murder, rape, robbery, and aggravated assault) and property		
Priority 1 (violent crime and life threatening emergencies) police response times		5 minutes
Annual response times for Fire and EMS		5 minutes
Cost of Living	Cost of Living Index compared to peer regions	
Prenatal Care	Percent of mothers receiving prenatal care in the first	
Leading Causes of Death for Children Under Five	Death rate, Number of accidental deaths, and Leading Causes	
Vaccine-Preventable Disease and Immunization Rates	Percent of Children Adequately Immunized at Two	
Pediatric Asthma	Children Ever Diagnosed with Asthma by Age,	
Overweight and Obesity	Weight status of adults (underweight, healthy, overweight,	
Child care Quality and affordability	Estimated Proportion of Children Needing	
Family income Security	Percentage of children eligible for free or reduced	

Health Insurance Coverage	% of uninsured; also by race/ethnicity, income and age	
Wellbeing of Older Adults	Percent Age 65 and Over in Poverty, Number of enrolled Unduplicated Count of Clients Served by Orange County	
Mental Health	Alcohol- and Drug-Related Arrests per 100,000 at Risk;	
Substance Abuse	Age-adjusted death rates by cause of death compared to Incidences per 1,000 children of Substantiated	
Health Status	Number of Juvenile Felony and Misdemeanor	
Family Safety	Number of crimes per 100,000 residents	
Juvenile Crime	gang-related crime filings, homicides, and the percentage	
Crime Rate	Number of reported hate crime events or filings; Number of Health care, community satisfaction, and Health conditions, lifestyles, and related outcomes.	
Gang-Related Crime	Incidences of smoking, healthy eating and regular	
Hate Crime	How residents evaluate their current status and Feelings regarding enjoyment, happiness, worry	
Wellbeing: Basic Access to Necessities		
Wellbeing: Physical Health		
Wellbeing: Healthy Behaviors		
Wellbeing: Life Evaluation		
Wellbeing: Emotional Health		



Wellbeing: Work Environment	Levels of job satisfaction and work environment.	
Public Safety	Number of violent crimes per 100,000 population; juvenile	
Preventive Health Care	% of women 50 years and older having	
Prenatal & Infant Health Care	% of mothers who received prenatal care during first	
Causes of Illness	% of population with diabetes, % of students passing all	
causes of death	Leading causes of death: rates per 100,000 population	
Access to health care professionals	Number of practicing physicians and allied health	
access to health care resources	Percentage of health insurance coverage by age and type	
access to health care resources	Number of preventable hospitalizations per	
use of alcohol and other drugs	Number of clients in treatment by drug; % of students	
mental health	Number of hospitalizations, bed days and placements	
elder and dependent adult abuse	Reports of Dependent Adult Abuse per 1,000	
child abuse	Number of Abuse/Neglect Referrals and	
safety - crime rate	Total number of crimes, property, violent, and alcohol	
safety - juvenile crime	Number of crimes by juveniles (homicide, forcible rape,	

fire and medical emergency response	Number of calls and average response time by agency	
wildland fire services	# of personnel and resources	
recreation use on public lands	Estimated visitors per year of public lands	
recreation facilities on private, city and county lands	# of facilities by type; miles of trails	
private land use	% of land dedicated to each land use category	
visual arts	# of formal art galleries, # of artist entering works in	
public charities and foundations	# of charities per capita; charitable assets per 100,000	
arts, culture, and humanities organizations	Funds donated to organizations (only those with gross	
Healthy Weight	Percent	
Healthy Infants	Percent	Reduce infant mortality rates and reduce the
Teen Pregnancy	Number of Pregnancies	Reduce the pregnancy rate among 15- to 17-
Reduce HIV and Gonorrhea	Number of cases	Reduce rate of new HIV cases to 21 cases per 100,000
Health Insurance	Percent	Have Minnesota residents remain healthy and that all
Tax fairness: Income tax and consumption taxes: percent of total taxes paid by income levels		
Violent Crime Rates		

Domestic Violence Rate		
Health Index from Mapping of America ( life expectancy, infant mortality and people without health		
Obesity		
Late or no prenatal care	As %	
Low birth weight babies	As %	
Infant Mortality	As %	
Health insurance coverage	As %	
County Health Rankings		
Total Crimes Reported	Crime divided by population	
Violent Crimes Reported	Crime divided by population	
Low Birth weight		For 2020: Reduce low birth weight from 8.2% of live
Infant Mortality		
Prenatal care		For 2020: Increase women who receive early and adequate
Pregnant women smoking		For 2020: Increase percent of women who do not smoke
Breast and cervical health screenings		

Breast feeding		For 2020: 81.9% of babies ever breastfed 60.5% of babies
Cancer	Comparison to State incidence rates	
Colorectal cancer testing rates	State vs. US	
Hip fracture rates/adults falling	City vs. State vs. US	
Health Insurance Coverage		For 2020: Proportion of people with some sort of health care
Hypertension		Goals listed, hard to copy/paste
% of kids fully immunized by 35 months		Goals listed, hard to copy/paste
Reportable Infectious Disease		
Adult depression who receive treatment		Goals listed, hard to copy/paste
% of people who eat fruits or vegetables more than 5 times per day		Goals listed, hard to copy/paste
Obesity/overweight		
Preventive clinical care (% who have had different types of checks)		
Suicide rates		Reduce to 10.2% by 2020
Teen pregnancies/abortions		
Smoking rates		Only 16% of adolescents smoke

Sexual activity among teens/condom usage		Only 12% of adults smoke (more on site)
Bing drinking rates		Reduce to 24.3% reporting doing so in last month
Child abuse		
Domestic Violence (calls/arrests)		
Violent Crimes (homicide, rape, robbery, assault)		
Population Growth		
Children in poverty	%	
Kids receiving free and reduced lunch	%	
Children with healthcare coverage	%	
Sexually active in last 3 months (Grades 9-12)		
% of Missoula High Schoolers with at least 1 drink in last month		
Suicide risk (reporting)	subjective reporting	
Availability of child care/child care costs		
Health Care Coverage (adult/children)		
Regular source of medical care (where you go to see a doctor)		

Emergency room use	use of emergency room as main source of health care	
Access to Mental Health Care	whether insurer covers mental healthcare	
Mental Health Need	Have you needed mental health care in last year?	
Suicide rates/subjective reporting	rates and thoughts about suicide	
Access to Dental Healthcare	does healthcare cover dental	
Tobacco Use by teenagers		
Smoking rates		
Alcohol use by high schoolers		
Substance use by high schoolers		
Alcohol use by adults	binge drinking measurement	
Obesity	by BMI	
Domestic Violence	Incidents and % change; subjective survey on prevalence types and	
Child abuse	substantiated claim %	
Elder abuse	incidents	
Youth encountering interpersonal violence/sexual conduct		

Safety in School	students who felt unsafe	
Number of Police officers per 100000 population		
violent crime rate per 100000 population		
Number of fire- fighters per 100,000 population		
Number of fire related deaths per 100000 population		
response time for fire department initial call		
Decrease infant mortality per 1000 births		
Increase local leisure opportunities		
Decrease transport fatalities per 1000 population		
Decrease crimes per 1000 population		
Decrease deaths from urban violence		
Decrease proportion of substandard housing		

Method of Measurement	Data Source	Why is this important?	Source Principle Heading
	Census, going with Health Insurance report by the Robert	access to healthcare is tied to infant mortality rates, to infant health	Nature: Regional Goals
			Reducing Human Vulnerability
			Reducing Human Vulnerability
			Reducing Human Vulnerability
		The larger the uninsured and/or underinsured	Healthcare
			Environmental Health
			Environmental Health - Toxins Reduction
			Environmental Health - Toxins Reduction
			Environmental Health - Toxins Reduction
			Environmental Health - Toxins Reduction
			Environmental Health - Toxins Reduction





			Human Dignity - System Level
			Human Dignity - System Level
			Human Dignity - System Level
			Human Dignity - System Level
		In a sustainable state, instances of child abuse are rare and all	Children: Child Abuse
			Children: Child Abuse
			Children: Child Abuse
		In a sustainable state, there are a variety of child care options	Children: Child care
		A sustainable state is one where the incidence of childhood	Children: Health
			Children: Health
			Children: Health
		A sustainable state is one where crime rates are low and	Crime
			Crime
		A sustainable state is one where a community is prepared	Disaster Preparedness
		A sustainable state is one where all people have the opportunity	Health Care: Community Health

			Health Care: Community Health
		Too few is a risk factor for premature death or illness	Health Care: Community Health
		Lack of exercise indicates a higher risk for premature death or	Health Care: Community Health
			Health Care: Community Health
		A sustainable state is one where all members of the community have	Health Care: Insurance and Cost
			Health Care: Insurance and Cost
		A sustainable state is one where a community is able to	Population
	CA Dept of Justice	Arrests are a proxy measure of the safety of residents in our	Community Health and Safety
	UCLA center for health policy research	Poor health can affect the ability of adults to work and children to	Community Health and Safety
		Counties and cities provide many essential services: police and	Local Government Finance
			Local Government Finance
			Human Health
			Human Health
			Municipal Expenditures
			Municipal Expenditures

			Municipal Expenditures
		Building activity value has a direct impact on property and sales	Building Activity
	County Assessor, others	Ensuring revenue to the city, which supports city services	Assessed Valuation, Property Tax revenue, Sales Tax Revenue
		Rising home prices suggest buyers have positive perceptions	Home Prices
		Crime impacts both the real and perceived safety of a community.	Crime Trends
		Emergency response times affect public safety performance	Police Response Times
		Emergency response times reflect public safety performance	Fire and EMS response Times
	Source: Council for Community and Economic Research	A high cost of living relative to peer markets can make	Economic and Business Climate
	Sources: County of Orange Health Care Agency, Epidemiology	-	Health and Prosperity
	Source: County of Orange Health Care Agency, Family Health	-	Health and Prosperity
	Source: California Department of Public Health, Immunization	Immunization is one of the most important interventions available	Health and Prosperity
	Source: University of California, Los Angeles, Center for Health	Nationwide, asthma prevalence has more than doubled in the	Health and Prosperity
	Source: Centers for Disease Control and Prevention, Pediatric	Overweight children are more likely to become overweight or	Health and Prosperity
	Source: California Department of Education	Research on school readiness and children's brain	Health and Prosperity
	Source: CA Dept of Education and Sources: County of Orange	The challenges associated with poverty are many.	Health and Prosperity

	Sources: California Health Interview Survey, University of	Access to quality health care is heavily influenced by health	Health and Prosperity
	Sources: County of Orange Social Services Agency (IHSS, Medi-	Orange County's older population is expected to increase by 94%	Health and Prosperity
	Sources: Orange County Health Care Agency, Behavioral	Mental health disorders often go unreported and	Health and Prosperity
	Source: California Department of Justice, Criminal Justice	A broad spectrum of public health and safety problems are	Health and Prosperity
			Health and Prosperity
			Public Safety
	Source: California Department of Justice, Criminal Justice	While youths make up a small portion of overall arrests, criminal	Public Safety
	Source: Federal Bureau of Investigation, Uniform Crime	Crime impacts both real and perceived safety in a community.	Public Safety
			Public Safety
	Source: California Department of Justice, Criminal Justice	Hate crimes are particularly threatening crimes because the	Public Safety
	55 Question Gallup-Healthways Well-Being survey	Studies show that individuals with higher levels of wellbeing take	Wellbeing Index
	55 Question Gallup-Healthways Well-Being survey		Wellbeing Index
	55 Question Gallup-Healthways Well-Being survey		Wellbeing Index
	55 Question Gallup-Healthways Well-Being survey		Wellbeing Index
	55 Question Gallup-Healthways Well-Being survey		Wellbeing Index

	55 Question Gallup-Healthways Well-Being survey		Wellbeing Index
	Source: California Department of Justice and, for property	Crime-related activities consume an enormous amount of valuable	Quality of Life
	Source(s): California Health Interview Survey, 2001-2005;	Early detection is important in controlling disease and	Health & Safety
	Source(s): California County Health Status Profiles 2007,	The health care our babies receive, before and after birth	Health & Safety
	Source(s): <a href="http://www.dq.cde.ca.gov/dataquest/">http://www.dq.cde.ca.gov/dataquest/</a>	Quality of life is in large part based upon good health and freedom	Health & Safety
	Source(s): California County Health Status Profiles 2004 and 2007,	The causes of death in a community have an obvious impact on the	Health & Safety
	Source(s): Sonora Regional Medical Center Staff	The presence and availability of adequate hospitals and	Health & Safety
		This measure is a critical way to determine if there is a	Health & Safety
	Source(s): Department of Social Services MediCal Tracking:	Hospitalization for certain health conditions increases	Health & Safety
	Source: Agency records from Tuolumne County Behavioral Health	Substance abuse and addiction is a nationwide problem.	Health & Safety
	Tuolumne General Medical Facility Acute Psychiatric Unit	How we care for some of our most vulnerable residents: children,	Health & Safety
	Source(s): CDSS-SOC 242 Report	-	Health & Safety
	Source(s): <a href="http://cssr.berkeley.edu/ucb_childwelfare/Ref">http://cssr.berkeley.edu/ucb_childwelfare/Ref</a>	Child abuse and neglect rates are critical to the overall	Health & Safety
		Residents want to feel safe within their neighborhoods. When	Health & Safety
	Source(s): Tuolumne County Sheriff's Office Uniform Crime	Increased juvenile crime levels are especially disturbing	Health & Safety

		Appropriate response to emergencies can save lives and property.	Health & Safety
		-	Natural Resources & Recreation
	Source: agency contacts	Measuring recreational use on these various public lands provides	Natural Resources & Recreation
	Source(s): Tuolumne County Recreation Master Plan, 2002, and	Recreation strengthens community awareness, enhances economic	Natural Resources & Recreation
		determine what parcels of land are available for housing,	Economy & Infrastructure
		The spectacular natural landscapes attract many painters,	Arts & Heritage
			Organizational Capacity
		Arts nurture social capital.	Organizational Capacity
Increase the proportion of Minneapolis adults		This area is associated with happiness of life and the members of	A Healthy Life
			A Healthy Life
			A Healthy Life
Decrease the number of HIV and gonorrhea cases contracted			A Healthy Life
		People with health care are more viable to stay healthy and the	People
			Governance
			Community Vitality

			Psychological Health
			Human Health
			Human Health
	State Depts. Of Health and Human Services		Health
	State Depts. Of Health and Human Services		Health
	State Depts. Of Health and Human Services		Health
	US Census		Health
	County Health Rankings website		Health
	FBI Uniform Crime Reports		Crime and Safety
	FBI Uniform Crime Reports		Crime and Safety
	Vital Statistics, MDPHHS		Physical and Mental Health
	Vital Statistics, MDPHHS		Physical and Mental Health
	Vital Statistics, MDPHHS		Physical and Mental Health
	Doesn't say		Physical and Mental Health
	BRFSS		Physical and Mental Health



	MCCHD		Physical and Mental Health
	Montana Central Tumor Registry, MDPHHS, Vital		Physical and Mental Health
	Montana Central Tumor Registry Report		Physical and Mental Health
	Not clear		Physical and Mental Health
	BRFSS		Physical and Mental Health
	BRFSS		Physical and Mental Health
	unknown		Physical and Mental Health
			Physical and Mental Health
	<a href="http://www.bettermedicine.com/topic/depression/">http://www.bettermedicine.com/topic/depression/</a>		Physical and Mental Health
	BRFSS		Physical and Mental Health
3rd grade BMI	BMI report-Missoula 3rd graders		Physical and Mental Health
	BRFSS		Physical and Mental Health
	Montana Vital Statistics		Physical and Mental Health
	MDPHSS		Physical and Mental Health
	BRFSS		Physical and Mental Health

	Montana YRBS Trend Data		Physical and Mental Health
	BRFSS		Physical and Mental Health
	Montana Department of Family Services		Social Topics
			Social Topics
	MCCHD		Social Topics
			Social Topics
			KIDS INDICATORS 2020
			KIDS INDICATORS 2020
	National Survey of Children's Health		KIDS INDICATORS 2020
	YRBS		KIDS INDICATORS 2020
	YRBS		KIDS INDICATORS 2020
	YRBS		KIDS INDICATORS 2020
			Economy
telephone survey/in-person			Health Issues
survey			Health Issues

telephone survey/in-person			Health Issues
telephone survey/in-person			Health Issues
telephone survey/in-person			Health Issues
State of Alaska, Department of Health and Social Services;			Health Issues
telephone survey/in-person			Health Issues
school survey			Health Issues
telephone survey/in-person			Health Issues
school survey			Health Issues
school survey			Health Issues
telephone survey/in-person			Health Issues
state survey			Health Issues
	Anchorage Police Department		Public Safety
	State of Alaska		Public Safety
	State of Alaska Health and Human Services		Public Safety
subjective survey			Public Safety









2010 Indicators Report	County: San Mateo County, CA	718451	<a href="http://www.sustainablesanmateo.org">http://www.sustainablesanmateo.org</a>
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2010 Indicators Report	County: San Mateo County, CA	718451	<a href="http://www.sustainablesanmateo.org">http://www.sustainablesanmateo.org</a>
State of the Bay Area: A Regional Report 2004	Region: Bay Area Alliance for Sustainable Indicators	7468390	<a href="http://www.bayareaalliance.org/indicators">http://www.bayareaalliance.org/indicators</a>
State of the Bay Area: A Regional Report 2004	Region: Bay Area Alliance for Sustainable Indicators	7468390	<a href="http://www.bayareaalliance.org/indicators">http://www.bayareaalliance.org/indicators</a>
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State of the Bay Area: A Regional Report 2004	Region: Bay Area Alliance for Sustainable Indicators	7468390	<a href="http://www.bayareaalliance.org/indicators">http://www.bayareaalliance.org/indicators</a>
Sustainability Plan 1996	City: San Francisco, CA	3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/download">http://www.sfenvironment.org/download</a>
Sustainability Plan 1996	City: San Francisco, CA	3.2 M urban, 4.3 M metro	<a href="http://www.sfenvironment.org/download">http://www.sfenvironment.org/download</a>
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Tuolumne County Profile 2008 Community Indicators Project	County: Tuolumne County, CA	55365	<a href="http://www.tuolumnecountyprofile.com">http://www.tuolumnecountyprofile.com</a>
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Tuolumne County Profile 2008 Community Indicators Project	County: Tuolumne County, CA	55365	<a href="http://www.tuolumnecountyprofile.com">http://www.tuolumnecountyprofile.com</a>
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Tuolumne County Profile 2008 Community Indicators Project	County: Tuolumne County, CA	55365	<a href="http://www.tuolumnecountyprofile.com">http://www.tuolumnecountyprofile.com</a>
Community Well Being: Indicator Series Second Edition 2005-2008	Region: Great Central Valley	6.5 million	<a href="http://www.greatvalley.org/indicators">http://www.greatvalley.org/indicators</a>
Community Well Being: Indicator Series Second Edition 2005-2008	Region: Great Central Valley	6.5 million	<a href="http://www.greatvalley.org/indicators">http://www.greatvalley.org/indicators</a>
Minneapolis Sustainability Indicators and Numerical Targets	Regional		<a href="http://www.ci.minneapolis.mn.us/sustainability">http://www.ci.minneapolis.mn.us/sustainability</a>
Minneapolis Sustainability Indicators and Numerical Targets	Regional		<a href="http://www.ci.minneapolis.mn.us/sustainability">http://www.ci.minneapolis.mn.us/sustainability</a>
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Minneapolis Sustainability Indicators and Numerical Targets	Regional		<a href="http://www.ci.minneapolis.mn.us/sustainability">http://www.ci.minneapolis.mn.us/sustainability</a>
Minnesota Milestones	Regional		<a href="http://server.admin.state.mn.us/mm">http://server.admin.state.mn.us/mm</a>
Sustainable Seattle	City		<a href="http://www.sustainableseattle.org/sa">http://www.sustainableseattle.org/sa</a>
Sustainable Seattle	City		<a href="http://www.sustainableseattle.org/sa">http://www.sustainableseattle.org/sa</a>

Sustainable Seattle	City		<a href="http://www.sustainablesattle.org/sa">http://www.sustainablesattle.org/sa</a>
Sustainable Seattle	City		<a href="http://www.sustainablesattle.org/sa">http://www.sustainablesattle.org/sa</a>
Sustainable Seattle	City		<a href="http://www.sustainablesattle.org/sa">http://www.sustainablesattle.org/sa</a>
Indicators Northwest	State		<a href="http://www.indicatorsnorthwest.org/">http://www.indicatorsnorthwest.org/</a>
Indicators Northwest	State		<a href="http://www.indicatorsnorthwest.org/">http://www.indicatorsnorthwest.org/</a>
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Indicators Northwest	State		<a href="http://www.indicatorsnorthwest.org/">http://www.indicatorsnorthwest.org/</a>
Missoula Measures	City/County		<a href="http://www.co.missoula.mt.us/meas">http://www.co.missoula.mt.us/meas</a>
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Missoula Measures	State		<a href="http://www.co.missoula.mt.us/meas">http://www.co.missoula.mt.us/meas</a>

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Missoula Measures	State/City		http://www.co.missoula.mt.us/meas
Missoula Measures	State/Nation		http://www.co.missoula.mt.us/meas
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Missoula Measures	State		http://www.co.missoula.mt.us/meas
Missoula Measures	County		http://www.co.missoula.mt.us/meas
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Anchorage Community Assessment Project	City		<a href="http://www.appliedsurveysresearch.org">http://www.appliedsurveysresearch.org</a>
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