

Regional Plan Anticipated Data Needs

Data Required by Statue or utilized in the last Regional Plan	Category	City Required	County Required
Annual NOx Emissions	Air quality		Yes
Annual VOC Emissions	Air quality		Yes
Annual CO2 Emissions	Air quality		Yes
Current population	Demographics		Yes
University enrollment and projections	Demographics		
Population by age	Demographics		Yes
Race and ethnicity	Demographics		Yes
Household Types	Demographics		
Population projections	Demographics		Yes
Population Density	Demographics		Yes
Household density	Demographics		
Household size	Demographics		
Educational Attainment	Demographics		
School enrollment	Demographics		
business density	Economics		Yes
tax revenues	Economics		
employment (by sector)	Economics		
Household income	Economics		
Poverty data	Economics		
Flagstaff Occupations	Economics		
Flagstaff Employers	Economics		
Household Expenditures estimates	Economics		
renewable energy installations	Energy		Yes
Age of housing units	Energy		

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APS Energy Mix	Energy		
Access to incident solar energy	Energy	yes	Yes
Steep slopes	Environment		Yes
NAU Centennial Forest	Environment		
Prairie Dog colonies	Environment	Yes (as a component of "wildlife" but prairie dog not specifically called-out)	Yes
Springs and Seeps	Environment	yes	Yes
Important Birding Area Boundaries	Environment	Yes (as a component of "wildlife" but migratory birds not specifically called-out)	
Terrestrial Ecosystem Survey Data	Environment	yes (but worded different, "forests, soils, rivers and other waters, harbors, fisheries, wildlife, minerals, and other natural resources")	
The conservation element may also cover:(a) The reclamation of land. (b) Flood control.(c) Prevention and control of the pollution of streams and other waters.(d) Regulation of the use of land in stream channels and other areas required for the accomplishment of the conservation plan.(e) Prevention, control and correction of the erosion of soils, beaches and shores.(f) Protection of watersheds.	Environment	"may also cover"	

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NRCS Soil data	Environment	yes (but not specific to NRCS)	
HUCS watersheds	Environment		
Watchable Wildlife Areas	Environment		
Water Courses and bodies	Environment	yes	
Wildlife Corridors	Environment	yes	Yes
historic timeline	Flagstaff History		
FMPO boundary	Geography		
Topography	Geography		
Land Ownership	Geography		
Land Management	Geography		
Urban Growth Boundary	Geography		
City Limits	Geography		
Existing mines, influences of mining operations, and suitable geologic resources	Geology	Yes	
Identified sources of aggregates	Geology	Yes	Yes
Geologic hazard mapping in areas of known geologic hazards	Geology	yes	
Historic Districts	Historic		
Age of Neighborhoods	Historic		
Historic Route 66 alignments	Historic		
Individual Historic Register listings	Historic		
Beal Wagon Road alignments	Historic		
Housing Units	Housing	yes	yes

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Housing demand	Housing	yes	
Second home data	Housing		
Housing construction projections	Housing		
Housing Affordability and costs	Housing		
Median Housing values	Housing		
Identify City programs that promote home ownership, that provide assistance for improving the appearance of neighborhoods and that promote maintenance of both commercial and residential buildings in neighborhoods	Housing	yes	
Identify City programs that provide for the safety and security of neighborhoods	Housing/public safety	yes	
Developed v. undeveloped parcels	Land Use		
building footprints	Land Use		
Vacant Land Available for Development Based on Current Zoning	Land Use		
DEVELOPMENT POTENTIAL OF VACANT PARCELS	Land Use		
Commercial/Industrial Square footage by type	Land Use		
Existing Land Use profile for scenario modeling; County includes compact form development and activity center locations	Land Use	yes	Yes
population within 1/2 mile of a park	Parks, Open Space, and Recreation		

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County Open Space	Parks, Open Space, and Recreation		yes
City Open Space	Parks, Open Space, and Recreation	yes	
City Natural Reservations	Parks, Open Space, and Recreation	yes	
City Parks	Parks, Open Space, and Recreation	yes	
City Parkways and scenic drives	Parks, Open Space, and Recreation	yes	
City Beaches	Parks, Open Space, and Recreation	yes	
City Playgrounds and playfields	Parks, Open Space, and Recreation	yes	
City Bicycle routes	Parks, Open Space, and Recreation	yes	
Other recreation areas	Parks, Open Space, and Recreation	yes	
County Parks and Recreation	Parks, Open Space, and Recreation		Yes
Designated wilderness	Parks, Open Space, and Recreation		
Other federally protected or designated areas	Parks, Open Space, and Recreation		
Cinder Hills OHV area	Parks, Open Space, and Recreation		
Kelly Trails OHV area	Parks, Open Space, and Recreation		
State Trust Lands - High Priority for Retention	Parks, Open Space, and Recreation		
civic and community centers	Public facilities	yes	
public schools	Public facilities	yes	
libraries	Public facilities	yes	

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police stations	Public facilities	yes	
fire stations	Public facilities	yes	
other public buildings	Public facilities	yes	
Flood management infrastructure	Stormwater		
Rural floodplain	Stormwater/Zoning Code		
Visitation	Tourism		
Vehicle Miles Traveled	Transportation		
Journey to Work data	Transportation		
transit ridership	Transportation		
transit service levels	Transportation		
Circulation system - freeways, arterial and collectors, bicycle routes and any other modes	Transportation	yes	Yes
Minimum road widths according to function, clearances around structures	Transportation	yes	
Evacuation routes	Transportation/public safety	yes	
Water Demand - residential, commercial, industrial	Water Services	Yes	Yes
Peak load water supply requirements	Water Services	yes	
Historic Average water sources	Water Services		
Reclaimed water distribution	Water Services		
gpcpd over time	Water Services		

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adequate water supply calculation	Water Services		
Surface water sources	Water Services		Yes
Groundwater sources, well locations	Water Services		Yes
Effluent supplies	Water Services		Yes

Regional Plan Anticipated Data Needs

Metrics that may be needed for emerging issues or decision-making

Category

Annual Community Greenhouse Gas Emissions	Climate action metrics
Annual Community Greenhouse Gas Emissions per capita	Climate action metrics
Energy use by housing type	Climate action metrics
Natural Gas usage - residential - annual - total and per building	Climate action metrics
Natural Gas usage - commercial - annual - total and per building	Climate action metrics
Natural Gas usage - industrial - annual - total and per building	Climate action metrics
Electricity usage - residential - annual - total and per building	Climate action metrics
Electricity usage - commercial - annual - total and per building	Climate action metrics
Electricity usage - industrial - annual - total and per building	Climate action metrics
# of electric only buildings - by sector - new and total	Climate action metrics
Energy use per gallon of potable water produced	Climate action metrics
Energy use per gallon of reclaimed water produced	Climate action metrics
# of people living locally, but working remotely	Climate action metrics
# of electric vehicles registered (resident and fleet)	Climate action metrics
VMT by electric vehicles (resident and fleet)	Climate action metrics
# of publicly available EV charging stations	Climate action metrics
Amount of energy distributed by publicly available EV charging stations	Climate action metrics

Regional Plan Anticipated Data Needs

Percentage of households living in 15-minute/complete neighborhoods	Climate action metrics
Average annual temperature (regional)	Climate change metrics
Days above 90 degrees	Climate change metrics
Average precipitation - spring	Climate change metrics
Average precipitation - summer (monsoon)	Climate change metrics
Average precipitation - fall	Climate change metrics
Average precipitation - winter	Climate change metrics
Annual snowpack	Climate change metrics
Temperature, humidity, wind, precipitation records broken	Climate change metrics
Extreme weather events	Climate change metrics
Hazardous air quality days per year	Climate change metrics (+ public health)
Annual streamflow	Climate change/Stormwater
Opportunity Areas	Equity
Accessibility measures by mode (accessibility to jobs, health care etc.)	Equity metrics

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bike and ped level of service at the TAZ level comparing Title VI v. wider community	Equity metrics
transit propensity	Equity metrics
Mode share by gender, race, poverty and disability status	Equity metrics
Crime Patterns	Equity metrics
Ways of mapping vulnerable populations that are finer than Title VI	Equity metrics
Disparate impacts to Title VI neighborhoods (positive and negative)	Equity metrics
Internet and Phone Connectivity within the area by population	Equity metrics
Emergency Management communications infrastructure (equity)	Equity metrics
Acreage of agricultural land	Food Systems
% of Population at low-income and low accessibility	Food Systems
Food deserts	Food Systems
Food Insecurity rate	Food Systems
Location of existing and planned utilities	Land Use
Development proposals	Land Use
Capital Improvement Programs	Land Use
Percent increase in capacity to serve residents with 15-minute (1/4 mile) walking access time to City open space	Open Space
Percent increase in access points to open space	Open Space

Regional Plan Anticipated Data Needs

Percent use of open space by underrepresented groups	Open Space
Percent use of open space by American with Disabilities	Open Space
Number of annual open space users	Open Space
The economic value derived from open space visitor attraction	Open Space
The health benefits related to open space use for mental and physical health	Open Space
Leading causes of death in the county and possible causes that are tied to the urban and rural environment	Public Health Metrics
Health Care deserts	Public Health Metrics
Medical infrastructure to support the Region (look at COVID patients from out of the area)	Public Health Metrics
COVID data that show where systems were stressed by the pandemic	Public Health Metrics
Quality of prenatal care [possibly by race] (access indicator)	Public Health Metrics
Percent insured (health insurance)	Public Health Metrics
multigenetic stormwater facilities - LID water quality basins, and recreational ponds.	Stormwater
Number or regional flood mitigation facilities. Multi-use for regional flood control and recreation/open space.	Stormwater
Flood frequency	Stormwater
Stream channel health	Stormwater
Acreage of rural floodplains	Stormwater
Acreage of administrative floodplains	Stormwater
recreation impacts	Tourism
Trip Length	Transportation
Concentration of traffic and associated impacts (corresponds to race and income)	transportation/public health

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Crash History (possibly by Title VI locations, Age, gender)	Transportation/public safety
Per Capita Waste Generation	Waste and Consumption
Pounds of recycling per household per week	Waste and Consumption
Single family recycling rate	Waste and Consumption
Commercial & Multifamily recycling rate	Waste and Consumption
Community-wide diversion rate	Waste and Consumption
Consumption-based greenhouse gas emissions	Waste and Consumption
Type of Water Source for County areas (access in general, healthy water, wastewater system)	Water access and availability in rural areas