














# American Key Indicator Profile

1/11/26

# Index- Effort Situation Profiles

## National Profile Organization





### Human Health, Well Being, and Safety




















-  Adults
-  Aging & Long-Term Care
-  Children
-  Crime and Justice
-  Families
-  Health
-  Housing
-  Immigration
-  People
-  Poverty
-  Toxic Burden
-  Exposure and Risk
-  Work

### Organizational Development











-  Assimilation
-  Communities
-  Conservation
-  Continuing Education
-  Domestic Waste
-  Economic Development
-  Health Care
-  Rural Development

### Infrastructure

-  Agriculture and Forestry
-  Airports and Aviation
-  Coal
-  Dams and Locks

-  Digital Infrastructure / Telecommunications
-  Educational
-  Energy
-  Oil and Natural Gas
-  Private Buildings
-  Public Buildings
-  Public Walkways and Access
-  Public Transit Systems
-  Public Vehicle Fleets
-  Railroads and Freight
-  Roads and Bridges
-  Roadside Facilities and Support
-  Solid Waste
-  Wastewater and Sewer
-  Water Supply
-  K-12 Education
-  Opportunity and Mobility
-  Political Corruption
-  Voting

## Natural Resources and Environmental Protection

-  Public Stewardship
-  Amelioration (Remediation)
-  Process Adaptation (Prevention)
-  Species Pressure
- Pollution
  -  Air
  -  Food
  -  Land
  -  Water
-  Environment
-  Sustainability

# National Profile Organization

set of whole situation, measure-based 'profiles of best understanding' representing situations that america is investing and working in to improve, where each effort situation profile is a list of ordered groups of ordered measures, and each measure represents a factor considered important in improving the situation and important enough to measure, and is a key indicator of improvement in the situation

## Effort Situation Profile / Form

effort situation name

ideal - ♦ - articulation of the ultimate outcome of the effort in the situation - when the state of all measures of the profile are best measure case - improbable, hence its value in long-range planning - it can be continually sought - a guiding image of and a beacon to a better tomorrow

measure lines / structure

measure name (should be a result measure with a clear preferred behavioral outcome - result/outcome measure)

rate dimension - in contextual form (e.g. dropouts per 1000 students, miles of polluted shoreline per 100 miles, etc.) if possible, not a percent or simple number

preferred behavioral outcome - i/d/g for increase, decrease, or seek a goal

rate range - should be inclusive of state level data

frequency - data collection/availability period (e.g., annual, etc.)

national data availability - Y (should always be yes)

state data availability - Y/N/UNKNOWN

primary data source

text descriptive of source as URL - to as close as possible to national and state data (if available)

deep look reference and reference search string - URL if possible to consensus best reference on measure

[!\[\]\(899d8b7697d64725bf017d3296cfcf1b\_img.jpg\) Back to Index](#)

## Health

◆ Effort Ideal: No Disease, Illnesses, Or Accidents

### Birth Outcomes

- Healthy Births - number of births without complications per 100 live births | i | 0-100 | Annual | Y | Y | CDC Natality | CDC Natality | Institute of Medicine Preterm Birth Report | 2nd Reference Search String: National Academies analysis of Healthy Births
- Infant Mortality - deaths per 1,000 live births | d | 0-1,000 | Annual | Y | Y | CDC Infant Mortality | CDC Infant Mortality | JAMA Infant Mortality Trends | 2nd Reference Search String: National Academies analysis of Infant Mortality
- Maternal Mortality - deaths per 100,000 live births | d | 0-100,000 | Annual | Y | Y | CDC Maternal Health | CDC Maternal Mortality | Lancet Global Maternal Mortality Study | 2nd Reference Search String: National Academies analysis of Maternal Mortality
- Congenital Abnormalities - number of births with major anomalies per 100 live births | d | 0-100 | Annual | Y | Y | CDC Birth Defects | CDC Birth Defects | NEJM Birth Defects Review | 2nd Reference Search String: National Academies analysis of Congenital Abnormalities

### Public Health Outcomes

- Life Expectancy at Birth – expected years of life per newborn | i | min-max | Annual | Y | Y | CDC NCHS | <https://www.cdc.gov/nchs/data-visualization/life-expectancy/> | <https://doi.org/10.2471/BLT.19.236489> | 2nd Reference Search String: National Academies analysis of Life Expectancy at Birth
- Age-Adjusted Mortality - deaths per 100,000 population | d | 0-100,000 | Annual | Y | Y | CDC WONDER | CDC Mortality | JAMA U.S. Mortality Trends | 2nd Reference Search String: National Academies analysis of Age-Adjusted Mortality
- Communicable Disease Incidence - cases per 100,000 population | d | 0-100,000 | Annual | Y | Y | CDC Surveillance | CDC Communicable Disease | Lancet Infectious Disease Burden | 2nd Reference Search String: National Academies analysis of Communicable Disease Incidence
- Chronic Disease Prevalence - number of adults diagnosed with diabetes, heart disease, etc. per 100 adults | d | 0-100 | Annual | Y | Y | CDC Chronic Disease | CDC Chronic Disease | JAMA Chronic Disease Burden | 2nd Reference Search String: National Academies analysis of Chronic Disease Prevalence

- Adult Obesity - number of adults classified as obese per 100 adults | d | 0-100 | Annual | Y | Y | CDC BRFSS | CDC Obesity Data | Lancet Obesity Review | 2nd Reference Search String: National Academies analysis of Adult Obesity
- Childhood Obesity - number of children classified as obese per 100 children | d | 0-100 | Annual | Y | Y | CDC YRBSS | CDC Childhood Obesity | NEJM Childhood Obesity Trends | 2nd Reference Search String: National Academies analysis of Childhood Obesity
- Environmental Disease Burden - number of residents with asthma or lead exposure per 100 residents | d | 0-100 | Annual | Y | Y | CDC Environmental Health | CDC Environmental Health | Lancet Environmental Health Burden | 2nd Reference Search String: National Academies analysis of Environmental Disease Burden

#### Emergency and Preventable Deaths

- Accidental Deaths - unintentional injury deaths per 100,000 population | d | 0-100,000 | Annual | Y | Y | CDC Injury Center | CDC Injury Data | NEJM Injury Epidemiology | 2nd Reference Search String: National Academies analysis of Accidental Deaths
- Drug Overdose Deaths - deaths per 100,000 population | d | 0-100,000 | Annual | Y | Y | CDC Overdose Data | CDC Overdose | JAMA Opioid Overdose Trends | 2nd Reference Search String: National Academies analysis of Drug Overdose Deaths
- Suicides - deaths per 100,000 population | d | 0-100,000 | Annual | Y | Y | CDC Suicide Data | CDC Suicide | Lancet Suicide Epidemiology | 2nd Reference Search String: National Academies analysis of Suicides

#### Behavioral Health and Risk Behaviors

- Unmet Mental Health Need - number of adults needing but not receiving treatment per 100 adults | d | 0-100 | Annual | Y | Y | SAMHSA Barometer | SAMHSA Mental Health | JAMA Mental Health Access | 2nd Reference Search String: National Academies analysis of Unmet Mental Health Need
- Social Isolation - number of adults reporting frequent loneliness or depression per 100 adults | d | 0-100 | Annual | Y | Y | CDC BRFSS | CDC Social Isolation | Lancet Social Isolation and Health | 2nd Reference Search String: National Academies analysis of Social Isolation
- Smoking (Adults) - adults who smoke per 100 adults | d | 0-100 | Annual | Y | Y | CDC Smoking Data | CDC Smoking | NEJM Smoking and Health | 2nd Reference Search String: National Academies analysis of Smoking

- Alcohol Use - number of adults reporting binge drinking per 100 adults | d | 0-100 | Annual | Y | Y | CDC Alcohol Data | CDC Alcohol | JAMA Alcohol Use Epidemiology | 2nd Reference Search String: National Academies analysis of Alcohol Use
- Substance (Drug) Use Disorder - number of adults with drug use disorder per 100 adults | d | 0-100 | Annual | Y | Y | NSDUH | NSDUH | Lancet Substance Use Burden | 2nd Reference Search String: National Academies analysis of Substance Use Disorder
- Seat Belt Use - number of adults who always wear seat belts per 100 adults | i | 0-100 | Annual | Y | Y | CDC Transportation Safety | CDC Seat Belt | Injury Prevention Journal Seat Belt Study | 2nd Reference Search String: National Academies analysis of Seat Belt Use

### Deaths by Life Stage

- Childhood Deaths - deaths per 100,000 children | d | 0-100,000 | Annual | Y | Y | CDC Child Mortality | CDC Child Mortality | JAMA Child Mortality Trends | 2nd Reference Search String: National Academies analysis of Childhood Deaths
- Adult Deaths - deaths per 100,000 adults | d | 0-100,000 | Annual | Y | Y | CDC Adult Mortality | CDC Mortality | Lancet Adult Mortality Burden | 2nd Reference Search String: National Academies analysis of Adult Deaths
- Senior Deaths - deaths per 100,000 seniors | d | 0-100,000 | Annual | Y | Y | CDC Senior Health | CDC Aging | Lancet Aging and Mortality | 2nd Reference Search String: National Academies analysis of Senior Deaths

### Longevity and End-of-Life

- Median Age at Death – median years lived per decedent | i | min-max | Annual | Y | Y | CDC Mortality Data | <https://www.cdc.gov/nchs/> | <https://doi.org/10.1001/jama.2019.12351> | 2nd Reference Search String: National Academies analysis of Median Age at Death
- Quality of Life in Final Years - seniors reporting good health during their last 5 years per 100 seniors | i | 0-100 | Annual | Y | Y | CDC Aging Surveys / National Health Interview Survey | CDC Aging Surveys | Lancet Aging and Health | 2nd Reference Search String: National Academies analysis of Quality of Life in Final Years

 [Back to Index](#)

## Children

### ◆ Effort Ideal: No Unwanted or Mistreated Children

#### Early Health and Development

- Teen Pregnancies - births per 1,000 females ages 15-19 | d | 0-1,000 | Annual | Y | Y | CDC Teen Births | CDC Teen Pregnancy | CDC FastStats Teen Births | 2nd Reference Search String: National Academies analysis of Teen Pregnancies
- Low Birth Weight - live births < 2,500g per 100 live births | d | 0-100 | Annual | Y | Y | CDC Natality Data | CDC Natality | CDC FastStats Birthweight | 2nd Reference Search String: National Academies analysis of Low Birth Weight
- Childhood Immunizations - children vaccinated by age 2 per 100 children | i | 0-100 | Annual | Y | Y | CDC NIS | CDC Immunization | CDC ChildVaxView | 2nd Reference Search String: National Academies analysis of Childhood Immunizations
- Birth Defects - births with major anomalies per 100 live births | d | 0-100 | Annual | Y | Y | CDC Birth Defects | CDC Birth Defects | CDC Birth Defects Statistics | 2nd Reference Search String: National Academies analysis of Birth Defects
- Early Childhood Enrollment Rate – children age 0–5 enrolled in licensed early childhood programs per 100 children | i | 0–100 | Annual | Y | Y | Census ACS / State Early Childhood Agencies | <https://www.census.gov/> | 2nd Reference Search String: National Academies analysis of Early Childhood Enrollment
- Developmentally Supportive Childcare Quality Index – proportion of childcare programs meeting developmental, educational, and safety standards per 100 programs | i | 0–100 | Annual | Y | Y | State Licensing Agencies / QRIS Systems | <https://www.acf.hhs.gov/occ> | 2nd Reference Search String: National Academies analysis of Childcare Quality Standards

#### Safety and Protection

- Child Abuse and Neglect - victims per 1,000 children | d | 0-1,000 | Annual | Y | Y | Children's Bureau | Children's Bureau Data | NCANDS Child Maltreatment Reports | 2nd Reference Search String: National Academies analysis of Child Abuse and Neglect
- Child Sexual Abuse in Home - substantiated cases per 1,000 children | d | 0-1,000 | Annual | Y | Y | NCANDS | NCANDS | NCANDS Reports | 2nd Reference Search String: National Academies analysis of Child Sexual Abuse in Home



- Child Sexual Abuse in Institutions - substantiated cases per 1,000 children | d | 0-1,000 | Annual | Y | Y | DOJ Reports | DOJ Child Abuse | DOJ OJJDP Data | 2nd Reference Search String: National Academies analysis of Child Sexual Abuse in Institutions
- Children in Foster Care - children per 1,000 population | d | 0-1,000 | Annual | Y | Y | AFCARS | AFCARS | AFCARS Reports | 2nd Reference Search String: National Academies analysis of Children in Foster Care
- Children Aging Out of Foster Care Without Adoption - children per 1,000 foster care exits | d | 0-1,000 | Annual | Y | Y | AFCARS | AFCARS | AFCARS Reports | 2nd Reference Search String: National Academies analysis of Children Aging Out of Foster Care Without Adoption
- Juvenile Arrests - arrests per 100,000 youth | d | 0-100,000 | Annual | Y | Y | OJJDP Data | OJJDP | OJJDP Statistical Briefing Book | 2nd Reference Search String: National Academies analysis of Juvenile Arrests
- Child Abductions Resolved - cases resolved per 100 reported abductions | i | 0-100 | Annual | Y | Y | FBI NCIC | FBI NCIC | FBI NCIC Data | 2nd Reference Search String: National Academies analysis of Child Abductions Resolved

#### Family Stability

- Children in Single-Parent Families - children in single-parent households per 100 children | d | 0-100 | Annual | Y | Y | Census ACS | Census ACS | Census ACS Data | 2nd Reference Search String: National Academies analysis of Children in Single-Parent Families
- Child Support Collection - owed payments collected per 100 owed | i | 0-100 | Annual | Y | Y | OCSE Data | OCSE | OCSE Reports | 2nd Reference Search String: National Academies analysis of Child Support Collection
- Children Experiencing Family Abuse - children exposed to domestic violence per 100 children | d | 0-100 | Annual | Y | Y | NSCH | NSCH | NSCH Data | 2nd Reference Search String: National Academies analysis of Children Experiencing Family Abuse

#### Educational and Readiness

- Preschool Enrollment - 3-4 year olds enrolled per 100 children | i | 0-100 | Annual | Y | Y | NCES Digest | NCES Preschool | NCES Preschool Data | 2nd Reference Search String: National Academies analysis of Preschool Enrollment

- Third Grade Reading Proficiency - students meeting standards per 100 third graders | i | 0-100 | Biennial | Y | Y | NAEP Reading | NAEP Reading | NAEP Data | 2nd Reference Search String: National Academies analysis of Third Grade Reading Proficiency
- Chronic Absenteeism - students missing 10%+ of school days per 100 students | d | 0-100 | Annual | Y | Y | Civil Rights Data Collection | CRDC | CRDC Data | 2nd Reference Search String: National Academies analysis of Chronic Absenteeism
- School Crime - incidents per 1,000 students | d | 0-1,000 | Annual | Y | Y | NCES School Crime | NCES School Crime | NCES School Crime Data | 2nd Reference Search String: National Academies analysis of School Crime
- Children with Disabilities Receiving Services - served under IDEA per 100 children with disabilities | i | 0-100 | Annual | Y | Y | IDEA Data Center | IDEA Data | NCES Students With Disabilities | 2nd Reference Search String: National Academies analysis of Children with Disabilities Receiving Services

#### Cultural and Economic Risk

- Child Poverty - children below poverty line per 100 children | d | 0-100 | Annual | Y | Y | Census SAIPE | Census SAIPE | UNICEF Child Poverty Data | 2nd Reference Search String: National Academies analysis of Child Poverty
- Youth Crime - arrests per 100,000 under age 18 | d | 0-100,000 | Annual | Y | Y | OJJDP | OJJDP | Sentencing Project Youth Justice | 2nd Reference Search String: National Academies analysis of Youth Crime
- Homeless Children - number of children experiencing homelessness per 1,000 children enrolled in school | d | 0-1000 | Annual | Y | Y | EDFacts | EDFacts Homeless | NCHE Homeless Education Data | 2nd Reference Search String: National Academies analysis of Homeless Children
- Child Deaths Due to Violence - deaths per 100,000 children | d | 0-100,000 | Annual | Y | Y | CDC Injury Data | CDC Injury | UNICEF Violent Deaths Data | 2nd Reference Search String: National Academies analysis of Child Deaths Due to Violence
- Improper Childcare Subsidy Payments – improper childcare subsidy payments per \$100 paid | d | 0–20 | Annual | Y | Y | HHS Office of Child Care | <https://www.acf.hhs.gov/occ> | 2nd Reference Search String: National Academies analysis of Childcare Improper Payments

## Mental and Emotional Wellbeing

- Youth Mental Health Service Use - youth receiving services per 100 youth | i | 0-100 | Annual | Y | Y | SAMHSA Youth Data | SAMHSA Youth | CDC Mental Health Data Sources | 2nd Reference Search String: National Academies analysis of Youth Mental Health Service Use
- Food Insecurity Among Children - children in food-insecure households per 100 children | d | 0-100 | Annual | Y | Y | USDA Food Security | USDA Food Security | Feeding America Map the Meal Gap | 2nd Reference Search String: National Academies analysis of Food Insecurity Among Children

## Digital and Media Impact

- Social Media Use Among Children - active accounts per 100 children | i | 0-100 | Annual | Y | Y | Pew Research Center Youth Data | Pew Youth Media | Pew Research: Teens & Social Media | 2nd Reference Search String: National Academies analysis of Social Media Use Among Children
- Excessive Screen Time - children exceeding recommended daily hours per 100 children | d | 0-100 | Annual | Y | Y | CDC Youth Risk Behavior Surveillance | CDC YRBS | American Academy of Pediatrics Screen Time Guidelines | 2nd Reference Search String: National Academies analysis of Excessive Screen Time
- Cyberbullying Incidents - reported cases per 1,000 children | d | 0-1,000 | Annual | Y | Y | NCES School Crime Supplement | NCES Cyberbullying | StopBullying.gov Cyberbullying Data | 2nd Reference Search String: National Academies analysis of Cyberbullying Incidents
- Video Game Use - children playing regularly per 100 children | i | 0-100 | Annual | Y | Y | ESA Video Game Industry Data | ESA Games | ESA Essential Facts Report | 2nd Reference Search String: National Academies analysis of Video Game Use
- Video Game Addiction Risk - children meeting problematic use criteria per 100 children | d | 0-100 | Annual | Y | Y | APA Gaming Disorder Research | APA Gaming | WHO Gaming Disorder Fact Sheet | 2nd Reference Search String: National Academies analysis of Video Game Addiction Risk
- Exposure to Inappropriate Online Content - reported incidents per 100 children | d | 0-100 | Annual | Y | Y | FTC Online Safety Reports | FTC Online Safety | FTC Protecting Kids Online | 2nd Reference Search String: National Academies analysis of Exposure to Inappropriate Online Content

- Online Sexual Abuse and Exploitation Events - substantiated cases of grooming, trafficking, or sexual crimes via online contact per 1,000 children | d | 0-1,000 | Annual | Y | Y | DOJ Internet Crimes Against Children Task Force | DOJ ICAC | National Center for Missing & Exploited Children | 2nd Reference Search String: National Academies analysis of Online Sexual Abuse and Exploitation Events

[!\[\]\(21199eb166cc97331a0c54c649195dcc\_img.jpg\) Back to Index](#)

## Adults

◆ Effort Ideal: No Adult Abuse, Neglect, Exploitation, or Poverty

### Economic Stability

- Unemployment - unemployed workers per 100 labor force participants | d | 0-100 | Monthly/Annual | Y | Y | BLS | BLS Unemployment | BLS Economic News Release | 2nd Reference Search String: National Academies analysis of Unemployment
- Adult Poverty - number of adults below federal poverty line per 100 adults | d | 0-100 | Annual | Y | Y | Census Poverty Data | Census Poverty | Census Current Population Survey Poverty Data | 2nd Reference Search String: National Academies analysis of Adult Poverty
- Income Inequality – income inequality ratio (0 = equal, 1 = unequal) | d | 0–1 | Annual | Y | Y | Census Income Inequality | <https://www.census.gov/topics/income-poverty/income-inequality.html> | <https://data.worldbank.org/indicator/SI.POV.GINI> | 2nd Reference Search String: National Academies analysis of Income Inequality
- Homelessness (Adults) - number of adults experiencing homelessness per 10,000 adults | d | 0-10,000 | Annual | Y | Y | HUD AHAR | HUD Homelessness | HUD Annual Homeless Assessment Report | 2nd Reference Search String: National Academies analysis of Homelessness
- Crime Victimization - number of adults reporting victimization per 100 adults | d | 0-100 | Annual | Y | Y | BJS NCVS | BJS Victimization | BJS National Crime Victimization Survey | 2nd Reference Search String: National Academies analysis of Crime Victimization

### Aging and Vulnerability

- Elder Abuse - substantiated cases per 1,000 older adults | d | 0-1,000 | Annual | Y | Y | NAMRS | NAMRS | ACL Elder Abuse Data | 2nd Reference Search String: National Academies analysis of Elder Abuse
- Independent Living Difficulty - number of adults 65+ with limitations per 100 adults 65+ | d | 0-100 | Annual | Y | Y | CDC Disability Data | CDC Disability | CDC Disability and Health Data System | 2nd Reference Search String: National Academies analysis of Independent Living Difficulty

- Disabled Adults Transitioned to Independent Living with Support - number of disabled adults successfully transitioned per 100 disabled adults eligible | i | 0-100 | Annual | Y | Y | State Disability Services | ACL Disability Data | ACL Independent Living Services | 2nd Reference Search String: National Academies analysis of Disabled Adults Transitioned to Independent Living with Support
- Access to Long-Term Care - number of facilities per 100,000 elderly | i | 0-100,000 | Annual | Y | Y | CMS Nursing Home Compare | CMS Nursing Homes | CMS Care Compare | 2nd Reference Search String: National Academies analysis of Access to Long-Term Care
- Self-Neglect - substantiated APS cases involving self-neglect per 1,000 adults | d | 0-1,000 | Annual | Y | Y | NAMRS | NAMRS | ACL Elder Abuse Data | 2nd Reference Search String: National Academies analysis of Self-Neglect

#### Mental and Physical Health

- Depression - number of adults diagnosed with depression per 100 adults | d | 0-100 | Annual | Y | Y | CDC Mental Health | CDC Mental Health | CDC National Health Interview Survey Mental Health | 2nd Reference Search String: National Academies analysis of Depression
- Substance (Drug/Alcohol) Use Disorder - number of adults with drug or alcohol use disorder per 100 adults | d | 0-100 | Annual | Y | Y | SAMHSA NSDUH | NSDUH | SAMHSA National Survey on Drug Use and Health | 2nd Reference Search String: National Academies analysis of Substance Use Disorder
- Physical Activity Compliance - number of adults meeting guidelines per 100 adults | i | 0-100 | Annual | Y | Y | CDC Physical Activity | CDC Physical Activity | CDC Physical Activity Guidelines Data | 2nd Reference Search String: National Academies analysis of Physical Activity Compliance
- Adult Deaths (Violent Causes) - deaths per 100,000 adults | d | 0-100,000 | Annual | Y | Y | CDC Injury Data | CDC Injury | CDC WISQARS Fatal Injury Data | 2nd Reference Search String: National Academies analysis of Adult Deaths (Violent Causes)
- Adult Obesity - number of adults classified as obese per 100 adults | d | 0-100 | Annual | Y | Y | CDC BRFSS | CDC Obesity | CDC BRFSS Obesity Data | 2nd Reference Search String: National Academies analysis of Adult Obesity

## Abuse, Neglect, and Exploitation

- Adult Abuse - substantiated cases per 1,000 adults | d | 0-1,000 | Annual | Y | Y | NAMRS | NAMRS | ACL Elder Justice NAMRS | 2nd Reference Search String: National Academies analysis of Adult Abuse
- Spousal Abuse - number of adults reporting intimate partner violence per 100 adults | d | 0-100 | Annual | Y | Y | CDC IPV Data | CDC IPV | CDC Intimate Partner Violence Data | 2nd Reference Search String: National Academies analysis of Spousal Abuse
- Caretaker Abuse - substantiated cases involving caregivers per 1,000 adults | d | 0-1,000 | Annual | Y | Y | NAMRS | NAMRS | ACL Elder Justice NAMRS | 2nd Reference Search String: National Academies analysis of Caretaker Abuse
- Exploitation - substantiated cases of financial or material exploitation per 1,000 adults | d | 0-1,000 | Annual | Y | Y | NAMRS | NAMRS | ACL Elder Justice NAMRS | 2nd Reference Search String: National Academies analysis of Exploitation

## Women's Health and Safety

- Breast Cancer - cases per 100,000 women | d | 0-100,000 | Annual | Y | Y | CDC Cancer Registry | CDC Cancer | CDC Breast Cancer Statistics | 2nd Reference Search String: National Academies analysis of Breast Cancer
- Cervical Cancer - cases per 100,000 women | d | 0-100,000 | Annual | Y | Y | CDC Cancer Registry | CDC Cancer | CDC Cervical Cancer Statistics | 2nd Reference Search String: National Academies analysis of Cervical Cancer
- Heart Disease in Women - deaths per 100,000 women | d | 0-100,000 | Annual | Y | Y | CDC Heart Disease | CDC Heart Disease | CDC Women and Heart Disease | 2nd Reference Search String: National Academies analysis of Heart Disease in Women
- Osteoporosis in Women - number of women age 50+ diagnosed per 100 women age 50+ | d | 0-100 | Annual | Y | Y | CDC Bone Health | CDC Osteoporosis | NIH Osteoporosis and Related Bone Diseases | 2nd Reference Search String: National Academies analysis of Osteoporosis in Women
- Autoimmune Disorders in Women - number of women diagnosed per 100 women | d | 0-100 | Annual | Y | Y | NIH Autoimmune Data | NIH Autoimmune | NIH Autoimmune Diseases Overview | 2nd Reference Search String: National Academies analysis of Autoimmune Disorders in Women

- Intimate Partner Violence Against Women - number of women reporting IPV per 100 women | d | 0-100 | Annual | Y | Y | CDC IPV Data | CDC IPV | CDC IPV Fast Facts | 2nd Reference Search String: National Academies analysis of Intimate Partner Violence Against Women
- Access to Preventive Care (Women) - number of women receiving regular checkups per 100 women | i | 0-100 | Annual | Y | Y | CDC BRFSS | CDC Preventive Care | HRSA Women's Preventive Services Guidelines | 2nd Reference Search String: National Academies analysis of Access to Preventive Care (Women)
- Access to Reproductive Health Services - number of women with timely access to contraception, prenatal, and maternal care per 100 women | i | 0-100 | Annual | Y | Y | CDC Reproductive Health | CDC Reproductive Health | WHO Reproductive Health | 2nd Reference Search String: National Academies analysis of Access to Reproductive Health Services
- Insurance Coverage (Women) - number of women with health insurance per 100 women | i | 0-100 | Annual | Y | Y | Census ACS | Census ACS | KFF Women's Health Insurance Coverage | 2nd Reference Search String: National Academies analysis of Insurance Coverage (Women)

#### Black Health Equity

- Hypertension - number of Black adults diagnosed per 100 Black adults | d | 0-100 | Annual | Y | Y | CDC BRFSS | CDC Hypertension | American Heart Association Hypertension in African Americans | 2nd Reference Search String: National Academies analysis of Hypertension
- Diabetes (Black People) - number of Black adults diagnosed per 100 Black adults | d | 0-100 | Annual | Y | Y | CDC BRFSS | CDC Diabetes | ADA Diabetes and African Americans | 2nd Reference Search String: National Academies analysis of Diabetes
- Obesity (Black People) - number of Black adults classified as obese per 100 Black adults | d | 0-100 | Annual | Y | Y | CDC BRFSS | CDC Obesity | CDC Black Obesity Data | 2nd Reference Search String: National Academies analysis of Obesity
- Stroke in Black Adults - deaths per 100,000 Black adults | d | 0-100,000 | Annual | Y | Y | CDC Stroke Data | CDC Stroke | American Stroke Association Stroke in African Americans | 2nd Reference Search String: National Academies analysis of Stroke in Black Adults



- Chronic Kidney Disease in Black Adults - number of Black adults diagnosed per 100 Black adults | d | 0-100 | Annual | Y | Y | CDC Kidney Data | CDC Kidney | National Kidney Foundation CKD in African Americans | 2nd Reference Search String: National Academies analysis of Chronic Kidney Disease in Black Adults
- HIV/AIDS in Black Adults - number of Black adults living with HIV per 100 Black adults | d | 0-100 | Annual | Y | Y | CDC HIV Surveillance | CDC HIV | CDC HIV and African American People | 2nd Reference Search String: National Academies analysis of HIV/AIDS in Black Adults
- Sickle Cell Disease - number of Black adults diagnosed per 100 Black adults | d | 0-100 | Annual | Y | Y | CDC Sickle Cell | CDC Sickle Cell | NIH Sickle Cell Disease | 2nd Reference Search String: National Academies analysis of Sickle Cell Disease
- Maternal Mortality (Black women) - deaths per 100,000 live births | d | 0-100,000 | Annual | Y | Y | CDC | CDC Maternal Mortality | CDC Racial Disparities in Maternal Mortality | 2nd Reference Search String: National Academies analysis of Maternal Mortality (Black women)
- Intimate Partner Violence Against Black Women - number of Black women reporting IPV per 100 Black women | d | 0-100 | Annual | Y | Y | CDC & NCADV | CDC IPV | Black Health Matters IPV | 2nd Reference Search String: National Academies analysis of Intimate Partner Violence Against Black Women
- Access to Preventive Care (Black Adults) - number of Black adults receiving regular checkups per 100 Black adults | i | 0-100 | Annual | Y | Y | CDC BRFSS | CDC Preventive Care | HRSA Preventive Services | 2nd Reference Search String: National Academies analysis of Access to Preventive Care (Black Adults)
- Insurance Coverage (Black Adults) - number of Black adults with health insurance per 100 Black adults | i | 0-100 | Annual | Y | Y | Census ACS | Census ACS | KFF Health Coverage by Race/Ethnicity | 2nd Reference Search String: National Academies analysis of Insurance Coverage (Black Adults)
- Access to Primary Care (Black Adults) - number of Black adults with a usual source of care per 100 Black adults | i | 0-100 | Annual | Y | Y | CDC BRFSS | CDC Primary Care | Commonwealth Fund Primary Care Access | 2nd Reference Search String: National Academies analysis of Access to Primary Care (Black Adults)

- Access to Specialty Care (Black Adults) - number of Black adults receiving needed specialty care per 100 Black adults | i | 0-100 | Annual | Y | Y | CDC BRFSS | CDC Specialty Care | Commonwealth Fund Specialty Care Access | 2nd Reference Search String: National Academies analysis of Access to Specialty Care (Black Adults)

#### Latino Health Access

- Diabetes (Latin People) - number of Latino adults diagnosed per 100 Latino adults | d | 0-100 | Annual | Y | Y | CDC BRFSS | CDC Diabetes | ADA Diabetes and Hispanic/Latino Americans | 2nd Reference Search String: National Academies analysis of Diabetes
- Obesity (Latin People) - number of Latino adults classified as obese per 100 Latino adults | d | 0-100 | Annual | Y | Y | CDC BRFSS | CDC Obesity | CDC Hispanic Obesity Data | 2nd Reference Search String: National Academies analysis of Obesity
- Liver Disease in Latino Adults - deaths per 100,000 Latino adults | d | 0-100,000 | Annual | Y | Y | CDC Liver Data | CDC Liver | NIH Liver Disease in Hispanics | 2nd Reference Search String: National Academies analysis of Liver Disease in Latino Adults
- Cervical Cancer in Latina Women - cases per 100,000 Latina women | d | 0-100,000 | Annual | Y | Y | CDC Cancer Registry | CDC Cancer | CDC Cervical Cancer Statistics | 2nd Reference Search String: National Academies analysis of Cervical Cancer in Latina Women
- Intimate Partner Violence Against Latina Women - number of Latina women reporting IPV per 100 Latina women | d | 0-100 | Annual | Y | Y | CDC & Esperanza United | CDC IPV | Esperanza United IPV Factsheet | 2nd Reference Search String: National Academies analysis of Intimate Partner Violence Against Latina Women
- Access to Preventive Care (Latino Adults) - number of Latino adults receiving regular checkups per 100 Latino adults | i | 0-100 | Annual | Y | Y | CDC BRFSS | CDC Preventive Care | HRSA Preventive Services | 2nd Reference Search String: National Academies analysis of Access to Preventive Care (Latino Adults)
- Insurance Coverage (Latino Adults) - number of Latino adults with health insurance per 100 Latino adults | i | 0-100 | Annual | Y | Y | Census ACS | Census ACS | KFF Health Coverage by Race/Ethnicity | 2nd Reference Search String: National Academies analysis of Insurance Coverage (Latino Adults)

- Access to Primary Care (Latino Adults) - number of Latino adults with a usual source of care per 100 Latino adults | i | 0-100 | Annual | Y | Y | CDC BRFSS | CDC Primary Care | Commonwealth Fund Primary Care Access | 2nd Reference Search String: National Academies analysis of Access to Primary Care (Latino Adults)
- Language Access in Care (Latino Adults) - number of Latino adults reporting language barriers in care per 100 Latino adults | d | 0-100 | Annual | Y | Y | CDC BRFSS | CDC Language Access | NIH Language Barriers in Healthcare | 2nd Reference Search String: National Academies analysis of Language Access in Care (Latino Adults)

[← Back to Index](#)

## Families

### ◆ Effort Ideal: Stable, Nurturing Family Environments

#### Family Structure and Stability

- Married Couple Families - number of married couple households per 100 households | i | 0-100 | Annual | Y | Y | Census ACS | Census ACS | Brookings Family Studies | 2nd Reference Search String: National Academies analysis of Married Couple Families
- Single Parent Families - number of single parent households per 100 households | d | 0-100 | Annual | Y | Y | Census ACS | Census ACS | National Women's Law Center | 2nd Reference Search String: National Academies analysis of Single Parent Families
- Divorce - number of divorces per 1,000 married couples | d | 0-1,000 | Annual | Y | Y | CDC Vital Statistics | CDC Vital Statistics | National Marriage Project | 2nd Reference Search String: National Academies analysis of Divorce
- Children Living with Grandparents - number of children living in grandparent households per 100 children | d | 0-100 | Annual | Y | Y | Census ACS | Census ACS | Pew Research Center Family Studies | 2nd Reference Search String: National Academies analysis of Children Living with Grandparents
- Cohabiting Couple Families - number of cohabiting couple households per 100 households | d | 0-100 | Annual | Y | Y | Census ACS | Census ACS | Urban Institute Family Studies | 2nd Reference Search String: National Academies analysis of Cohabiting Couple Families
- Children Living with Neither Parent - number of children living without either parent per 100 children | d | 0-100 | Annual | Y | Y | Census ACS | Census ACS | Annie E. Casey Foundation Child Well-Being | 2nd Reference Search String: National Academies analysis of Children Living with Neither Parent

#### Safety and Domestic Wellbeing

- Domestic Violence - number of substantiated domestic violence incidents per 1,000 households | d | 0-1,000 | Annual | Y | Y | NCADV / FBI UCR | NCADV Domestic Violence Data | FBI UCR | 2nd Reference Search String: National Academies analysis of Domestic Violence
- Child Custody Disputes Filed - number of custody dispute cases filed per 1,000 families | d | 0-1,000 | Annual | Y | Y | State Court Data | National Center for State Courts | Child Welfare Information Gateway | 2nd Reference Search String: National Academies analysis of Child Custody Disputes Filed

- Family Protective Services Caseload - number of protective service cases per 1,000 children | d | 0-1,000 | Annual | Y | Y | HHS Child Protective Services | HHS CPS Data | Child Welfare Information Gateway | 2nd Reference Search String: National Academies analysis of Family Protective Services Caseload
- Siblings Separated in Foster/Adoption - number of sibling groups separated per 100 sibling groups | d | 0-100 | Annual | Y | Y | HHS AFCARS | HHS AFCARS | AdoptUSKids Sibling Studies | 2nd Reference Search String: National Academies analysis of Siblings Separated in Foster/Adoption
- Serious Child Injuries Due to Family Abuse - number of substantiated serious injuries per 1,000 children | d | 0-1,000 | Annual | Y | Y | HHS NCANDS | HHS NCANDS | CDC Child Maltreatment | 2nd Reference Search String: National Academies analysis of Serious Child Injuries Due to Family Abuse
- Child Deaths Due to Family Abuse - number of fatalities per 100,000 children | d | 0-100,000 | Annual | Y | Y | HHS NCANDS | HHS NCANDS | CDC Child Maltreatment Fatalities | 2nd Reference Search String: National Academies analysis of Child Deaths Due to Family Abuse
- Children Witnessing Domestic Violence - number of children exposed to domestic violence incidents per 100 children | d | 0-100 | Annual | Y | Y | NCADV / CDC | CDC ACEs Data | NCADV Domestic Violence Data | 2nd Reference Search String: National Academies analysis of Children Witnessing Domestic Violence
- Families with Restraining Orders - number of households with active restraining orders per 1,000 households | d | 0-1,000 | Annual | Y | Y | State Court Data | National Center for State Courts | Legal Services Domestic Violence | 2nd Reference Search String: National Academies analysis of Families with Restraining Orders

#### Family Functioning and Support

- Parental Mental Health Status - number of parents reporting poor mental health per 100 parents | d | 0-100 | Annual | Y | Y | CDC Behavioral Risk Factor Surveillance | CDC BRFSS | SAMHSA Parent Mental Health | 2nd Reference Search String: National Academies analysis of Parental Mental Health Status
- Access to Family Counseling Services - number of licensed family counseling providers per 100,000 families | i | 0-100,000 | Annual | Y | Y | HHS Provider Data | HHS Provider Data | APA Family Therapy Resources | 2nd Reference Search String: National Academies analysis of Access to Family Counseling Services

- Family Meals Frequency - number of families eating together  $\geq 5$  times per week per 100 families | i | 0-100 | Biennial | Y | Y | CDC Child Health Surveys | CDC Child Health Data | Annie E. Casey Foundation Family Well-Being | 2nd Reference Search String: National Academies analysis of Family Meals Frequency
- Divorced Parents Receiving Education - number of divorced parents completing “Children of Divorce” programs per 100 divorced parents | i | 0-100 | Annual | Y | Y | State Court / Family Services | National Center for State Courts | Child Welfare Information Gateway | 2nd Reference Search String: National Academies analysis of Divorced Parents Receiving Education
- Positive Parenting Practices - number of parents reporting consistent positive discipline and nurturing per 100 parents | i | 0-100 | Annual | Y | Y | CDC Parenting Practices Survey | CDC Parenting Practices | Zero to Three Parenting Studies | 2nd Reference Search String: National Academies analysis of Positive Parenting Practices
- Family Resilience - number of families reporting ability to cope with stress and adversity per 100 families | i | 0-100 | Annual | Y | Y | Census SIPP / HHS Family Resilience Data | Census SIPP | APA Family Resilience Studies | 2nd Reference Search String: National Academies analysis of Family Resilience

#### Economic and Housing Stability

- Family Poverty - number of families below the poverty line per 100 families | d | 0-100 | Annual | Y | Y | Census ACS | Census ACS | Brookings Poverty Studies | 2nd Reference Search String: National Academies analysis of Family Poverty
- Housing Cost-Burdened Families - number of families spending  $>30\%$  of income on housing per 100 families | d | 0-100 | Annual | Y | Y | HUD CHAS | HUD CHAS | National Low Income Housing Coalition | 2nd Reference Search String: National Academies analysis of Housing Cost-Burdened Families
- Housing Stability - number of families with stable housing per 100 families | i | 0-100 | Annual | Y | Y | Census ACS | Census ACS | HUD Housing Studies | 2nd Reference Search String: National Academies analysis of Housing Stability
- Food Security - number of families with secure access to food per 100 families | i | 0-100 | Annual | Y | Y | USDA Food Security | USDA Food Security | Feeding America Food Insecurity | 2nd Reference Search String: National Academies analysis of Food Security

- Child Support Collection - number of owed child support payments collected per 100 owed | i | 0-100 | Annual | Y | Y | HHS OCSE | HHS Child Support Data | Urban Institute Child Support Studies | 2nd Reference Search String: National Academies analysis of Child Support Collection
- Homeless Families - number of families experiencing homelessness per 100 families | d | 0-100 | Annual | Y | Y | HUD PIT Count | HUD PIT Count | National Alliance to End Homelessness | 2nd Reference Search String: National Academies analysis of Homeless Families
- Access to Childcare Services - number of licensed childcare slots per 100 children | i | 0-100 | Annual | Y | Y | HHS Childcare Data | HHS Childcare Data | Child Care Aware of America | 2nd Reference Search String: National Academies analysis of Access to Childcare Services
- Childcare Affordability Index – average annual childcare cost as percent of median household income for families with children | d | 0–60 | Annual | Y | Y | Child Care Aware / Census ACS | <https://www.childcareaware.org/> | 2nd Reference Search String: National Academies analysis of Childcare Affordability
- Childcare Subsidy Utilization – children receiving childcare subsidies per 100 eligible children | i | 0–100 | Annual | Y | Y | HHS Office of Child Care | <https://www.acf.hhs.gov/occ> | 2nd Reference Search String: National Academies analysis of Childcare Subsidy Utilization
- Childcare Provider Background Check Compliance – childcare providers with completed and up-to-date background checks per 100 providers | i | 0–100 | Annual | Y | Y | State Licensing Agencies | <https://www.acf.hhs.gov/occ> | 2nd Reference Search String: National Academies analysis of Childcare Background Check Compliance
- Improper Childcare Subsidy Payments – improper childcare subsidy payments per \$100 paid | d | 0–20 | Annual | Y | Y | HHS Office of Child Care | <https://www.acf.hhs.gov/occ> | 2nd Reference Search String: National Academies analysis of Childcare Improper Payments
- Families with Emergency Savings - number of families reporting ≥3 months of emergency savings per 100 families | i | 0-100 | Annual | Y | Y | Census SIPP | Census SIPP | Pew Research Center Family Finances | 2nd Reference Search String: National Academies analysis of Families with Emergency Savings

- Families Facing Utility Shutoffs - number of families experiencing utility shutoffs per 1,000 families | d | 0-1,000 | Annual | Y | Y | Census ACS / State Utility Data | Census ACS | Low Income Home Energy Assistance Program | 2nd Reference Search String: National Academies analysis of Families Facing Utility Shutoffs

#### Caregiving and Permanency

- Elder Caregiving - number of families providing elder care per 100 families | i | 0-100 | Annual | Y | Y | Census ACS / AARP | Census ACS | AARP Caregiving Studies | 2nd Reference Search String: National Academies analysis of Elder Caregiving
- Disabled Family Member Support - number of families providing care for disabled members per 100 families | i | 0-100 | Annual | Y | Y | Census ACS | Census ACS | National Center for Caregiving | 2nd Reference Search String: National Academies analysis of Disabled Family Member Support
- Foster Care Families - number of families fostering children per 1,000 families | i | 0-1,000 | Annual | Y | Y | HHS AFCARS | HHS AFCARS | Child Welfare Information Gateway | 2nd Reference Search String: National Academies analysis of Foster Care Families
- Adoption - number of families adopting children per 1,000 families | i | 0-1,000 | Annual | Y | Y | HHS AFCARS | HHS AFCARS | AdoptUSKids | 2nd Reference Search String: National Academies analysis of Adoption
- Kinship Care Families - number of families providing kinship care (relatives caring for children) per 1,000 families | i | 0-1,000 | Annual | Y | Y | Census ACS / HHS | Census ACS | Child Welfare Information Gateway | 2nd Reference Search String: National Academies analysis of Kinship Care Families
- Guardianship Arrangements - number of children under legal guardianship (non-parent) per 1,000 children | d | 0-1,000 | Annual | Y | Y | State Court Data / HHS | National Center for State Courts | Child Welfare Information Gateway | 2nd Reference Search String: National Academies analysis of Guardianship Arrangements

 [Back to Index](#)



## Housing

◆ Effort Ideal: Affordable Up-To-Standard Housing For All

### Housing Quality and Safety

- Housing Quality Index Score - composite rating of structural and environmental factors per 100 housing units | i | 0-100 | Annual | Y | Y | HUD HQS | HUD HQS | HUD Housing Quality Standards Guide | 2nd Reference Search String: National Academies analysis of Housing Quality Index Score
- Households with Basic Utilities - number of households with water, electricity, heat per 100 households | i | 0-100 | Annual | Y | Y | Census Housing Characteristics | Census Housing Data | HUD Utility Access Report | 2nd Reference Search String: National Academies analysis of Households with Basic Utilities
- Lead Paint Risk in Housing - number of homes built before 1978 per 100 homes | d | 0-100 | Annual | Y | Y | HUD Lead Hazard Control | HUD Lead Hazard | CDC Lead Paint Risks | 2nd Reference Search String: National Academies analysis of Lead Paint Risk in Housing
- Substandard Housing - number of housing units failing building codes per 100 housing units | d | 0-100 | Annual | Y | Y | HUD Data Catalog | HUD Housing Data | National Low Income Housing Coalition | 2nd Reference Search String: National Academies analysis of Substandard Housing

### Homelessness and Housing Instability

- Homeless Population - number of homeless individuals per 10,000 residents | d | 0-10,000 | Annual | Y | Y | HUD PIT Count | HUD PIT Count | National Alliance to End Homelessness | 2nd Reference Search String: National Academies analysis of Homeless Population
- Homelessness with Mental Illness/Substance Abuse - number of homeless individuals with behavioral health issues per 100 homeless individuals | d | 0-100 | Annual | Y | Y | HUD AHAR | HUD AHAR | SAMHSA Homelessness Data | 2nd Reference Search String: National Academies analysis of Homelessness with Mental Illness/Substance Abuse
- Shelter Utilization - number of shelter beds occupied per 100 shelter beds available | i | 0-100 | Annual | Y | Y | HUD Homeless Services | HUD Shelter Data | National Homeless Services Report | 2nd Reference Search String: National Academies analysis of Shelter Utilization

- Eviction Filings - number of eviction filings per 1,000 renter households | d | 0-1,000 | Annual | Y | Y | Eviction Lab | Eviction Lab | Princeton Eviction Studies | 2nd Reference Search String: National Academies analysis of Eviction Filings
- Homelessness Recurrence - number of individuals re-entering homelessness per 100 formerly homeless individuals | d | 0-100 | Annual | Y | Y | HUD AHAR | HUD AHAR | National Alliance Recurrence Studies | 2nd Reference Search String: National Academies analysis of Homelessness Recurrence
- Average Duration of Homelessness - median days unhoused per homeless episode | d | 0-365 | Annual | Y | Y | HUD AHAR | HUD AHAR | Urban Institute Homelessness Duration | 2nd Reference Search String: National Academies analysis of Average Duration of Homelessness
- Improper Housing Assistance Payments – improper payments in housing assistance programs per \$100 paid | d | 0–20 | Annual | Y | Y | HUD Payment Integrity | <https://www.hud.gov/> | 2nd Reference Search String: National Academies analysis of Housing Improper Payments



#### Public Housing Conditions

- Public Housing Vacancy - number of vacant public housing units per 100 public housing units | d | 0-100 | Annual | Y | Y | HUD Public Housing Data | HUD Public Housing | HUD USER | 2nd Reference Search String: National Academies analysis of Public Housing Vacancy
- Waitlist Time for Public Housing - average months waiting per applicant household | d | 0-120 | Annual | Y | Y | Local Housing Authorities | HUD Waitlist Data | National Housing Law Project | 2nd Reference Search String: National Academies analysis of Waitlist Time for Public Housing
- Units Meeting Building Codes - number of compliant public housing units per 100 public housing units | i | 0-100 | Annual | Y | Y | HUD Data Catalog | HUD Housing Data | HUD USER | 2nd Reference Search String: National Academies analysis of Units Meeting Building Codes
- Public Housing with Acceptable Water/Air Quality - number of units meeting environmental standards per 100 public housing units | i | 0-100 | Annual | Y | Y | EPA Facility Registry | EPA Facility Registry | HUD Environmental Standards | 2nd Reference Search String: National Academies analysis of Public Housing with Acceptable Water/Air Quality

- Overcrowded Public Housing - number of units exceeding occupancy limits per 100 public housing units | d | 0-100 | Annual | Y | Y | HUD USER | HUD USER | Census Housing Data | 2nd Reference Search String: National Academies analysis of Overcrowded Public Housing
- Public Housing Fire Incidence - number of fires per 1,000 public housing units | d | 0-1,000 | Annual | Y | Y | NFPA | NFPA Fire Data | HUD Fire Safety | 2nd Reference Search String: National Academies analysis of Public Housing Fire Incidence
- Public Housing Satisfaction - number of satisfied residents per 100 public housing residents | i | 0-100 | Annual | Y | Y | HUD Resident Surveys | HUD Resident Surveys | HUD Quality of Life Studies | 2nd Reference Search String: National Academies analysis of Public Housing Satisfaction
- Public Housing with No Phone or Vehicle Access - number of households lacking phone or vehicle per 100 public housing households | d | 0-100 | Annual | Y | Y | Census ACS | Census ACS | HUD Mobility Studies | 2nd Reference Search String: National Academies analysis of Public Housing with No Phone or Vehicle Access
- Public Housing Crime - number of crime incidents per 1,000 public housing units | d | 0-1,000 | Annual | Y | Y | Local Housing Authorities | HUD Crime Data | Urban Institute Crime Studies | 2nd Reference Search String: National Academies analysis of Public Housing Crime

#### Private Housing Conditions

- Private Housing Units Meeting Codes - number of compliant private housing units per 100 private housing units | i | 0-100 | Annual | Y | Y | Census AHS | Census AHS | HUD USER | 2nd Reference Search String: National Academies analysis of Private Housing Units Meeting Codes
- Substandard Private Housing - number of units failing basic infrastructure per 100 private housing units | d | 0-100 | Annual | Y | Y | HUD Data Catalog | HUD Housing Data | National Low Income Housing Coalition | 2nd Reference Search String: National Academies analysis of Substandard Private Housing
- Private Housing with No Treated Water or Sewage - number of units lacking sanitation per 100 private housing units | d | 0-100 | Annual | Y | Y | EPA Facility Registry | EPA Facility Registry | HUD Water Access Studies | 2nd Reference Search String: National Academies analysis of Private Housing with No Treated Water or Sewage

- Private Housing Without Energy/Heat - number of units lacking utilities per 100 private housing units | d | 0-100 | Annual | Y | Y | Census Housing Characteristics | Census Housing Data | HUD Energy Studies | 2nd Reference Search String: National Academies analysis of Private Housing Without Energy/Heat
- Private Housing with Partial Plumbing/Kitchen - number of units missing facilities per 100 private housing units | d | 0-100 | Annual | Y | Y | Census AHS | Census AHS | HUD USER | 2nd Reference Search String: National Academies analysis of Private Housing with Partial Plumbing/Kitchen
- Overcrowded Private Housing - number of units exceeding occupancy limits per 100 private housing units | d | 0-100 | Annual | Y | Y | HUD USER | HUD USER | Census Housing Data | 2nd Reference Search String: National Academies analysis of Overcrowded Private Housing
- Private Housing Fire Incidence - number of fires per 1,000 private housing units | d | 0-1,000 | Annual | Y | Y | NFPA | NFPA Fire Data | HUD Fire Safety | 2nd Reference Search String: National Academies analysis of Private Housing Fire Incidence
- Affordability of Private Housing - number of households spending >30% income on housing per 100 households | d | 0-100 | Annual | Y | Y | HUD Housing Data | HUD Housing Data | National Low Income Housing Coalition | 2nd Reference Search String: National Academies analysis of Affordability of Private Housing
- Private Housing with No Phone or Vehicle Access - number of households lacking phone or vehicle per 100 private housing households | d | 0-100 | Annual | Y | Y | Census ACS | Census ACS | HUD Mobility Studies | 2nd Reference Search String: National Academies analysis of Private Housing with No Phone or Vehicle Access
- Accessibility and Discrimination Complaints - number of complaints filed per 1,000 private housing units | d | 0-1,000 | Annual | Y | Y | HUD Fair Housing | HUD Fair Housing | HUD USER | 2nd Reference Search String: National Academies analysis of Accessibility and Discrimination Complaints



#### Affordability and Access

- Housing Affordability Index (Housing Costs) - ratio of median household income to median housing costs per 100 households | g | 0-100 | Quarterly | Y | Y | NAHB Affordability | NAHB Housing Affordability | HUD Housing Affordability Studies | 2nd Reference Search String: National Academies analysis of Housing Affordability Index

- Rental Vacancy - number of vacant rental units per 100 rental units | i | 0-100 | Quarterly | Y | Y | Census Housing Vacancies | Census Housing Vacancies | HUD Rental Market Reports | 2nd Reference Search String: National Academies analysis of Rental Vacancy
- Homeownership - number of owned housing units per 100 occupied housing units | i | 0-100 | Quarterly | Y | Y | Census Homeownership | Census Homeownership Data | HUD USER | 2nd Reference Search String: National Academies analysis of Homeownership
- Median Age of First-Time Home Buyers - average age per 100 first-time home buyers | g | 0-100 | Annual | Y | Y | Census AHS / NAR Housing Data | Census AHS | NAR Housing Data | 2nd Reference Search String: National Academies analysis of Median Age of First-Time Home Buyers
- Median Household Income of First-Time Home Buyers - average household income per 100 first-time home buyers | g | 0-100 | Annual | Y | Y | Census AHS / NAR Housing Data | Census AHS | NAR Housing Data | 2nd Reference Search String: National Academies analysis of Median Household Income of First-Time Home Buyers
- First-Time Home Buyer Share of Market - number of first-time home purchases per 100 total home purchases | i | 0-100 | Annual | Y | Y | NAR Housing Market Data | NAR Housing Market Data | HUD Housing Studies | 2nd Reference Search String: National Academies analysis of First-Time Home Buyer Share of Market
- Average Down Payment for First-Time Buyers - average down payment percent per 100 first-time home purchases | d | 0-100 | Annual | Y | Y | NAR / Mortgage Bankers Association | MBA Housing Data | NAR Housing Market Data | 2nd Reference Search String: National Academies analysis of Average Down Payment for First-Time Buyers

## Development and Infrastructure

- New Housing Starts - number of new housing units started per 1,000 population | i | 0-1,000 | Monthly | Y | Y | Census Building Permits | Census Building Permits | HUD Housing Market Data | 2nd Reference Search String: National Academies analysis of New Housing Starts
- Affordable Housing Units Built - number of affordable housing units built per 1,000 low-income households | i | 0-1,000 | Annual | Y | Y | HUD LIHTC Database | HUD LIHTC Database | National Low Income Housing Coalition | 2nd Reference Search String: National Academies analysis of Affordable Housing Units Built

- Public Housing Waitlist Time - average months waiting per applicant household | d | 0-120 | Annual | Y | Y | Local Housing Authorities | HUD Waitlist Data | National Housing Law Project | 2nd Reference Search String: National Academies analysis of Public Housing Waitlist Time
- Housing Starts vs. Need - number of new housing units started per 100 estimated units needed | g | 0-100 | Annual | Y | Y | Census Building Permits / HUD CHAS / State Housing Needs Assessments | Census Building Permits | HUD CHAS | 2nd Reference Search String: National Academies analysis of Housing Starts vs. Need

[!\[\]\(d0a1791f26d167e866e44ebbf83efebe\_img.jpg\) Back to Index](#)



## Poverty

◆ Effort Ideal: No Poverty



### Economic Hardship

- Overall Poverty - number of individuals below the federal poverty threshold per 100 population | d | 0-100 | Annual | Y | Y | Census Poverty Data | Census Poverty Data | Brookings Poverty Studies | 2nd Reference Search String: National Academies analysis of Overall Poverty
- Child Poverty - children below poverty line per 100 children | d | 0-100 | Annual | Y | Y | Census Child Poverty | Census Child Poverty | Annie E. Casey Foundation Child Poverty | 2nd Reference Search String: National Academies analysis of Child Poverty
- Deep Poverty - number of individuals below 50% of the poverty threshold per 100 population | d | 0-100 | Annual | Y | Y | Census Deep Poverty | Census Deep Poverty | Urban Institute Poverty Studies | 2nd Reference Search String: National Academies analysis of Deep Poverty
- Poverty  $\leq 100\%$  Threshold – individuals below the federal poverty level per 100 population | d | 0–50 | Annual | Y | Y | Census ACS | <https://www.census.gov/programs-surveys/acs> | Center on Budget and Policy Priorities | 2nd Reference Search String: National Academies analysis of Poverty  $\leq 100\%$  Threshold
- Poverty  $> 100\%$  to  $\leq 200\%$  Threshold – individuals above the poverty level but below twice the poverty threshold per 100 population | d | 0–60 | Annual | Y | Y | Census ACS | <https://www.census.gov/programs-surveys/acs> | Center on Budget and Policy Priorities | 2nd Reference Search String: National Academies analysis of Poverty  $> 100\%$  to  $\leq 200\%$  Threshold
- Poverty  $> 200\%$  Threshold – individuals above twice the poverty threshold per 100 population | i | 0–100 | Annual | Y | Y | Census ACS | <https://www.census.gov/programs-surveys/acs> | Center on Budget and Policy Priorities | 2nd Reference Search String: National Academies analysis of Poverty  $> 200\%$  Threshold
- Single Parents in Poverty - number of single-parent households below poverty per 100 single-parent households | d | 0-100 | Annual | Y | Y | Census ACS | Census ACS | National Women's Law Center | 2nd Reference Search String: National Academies analysis of Single Parents in Poverty

- Older Adults in Poverty - number of adults age 65+ below poverty per 100 older adults | d | 0-100 | Annual | Y | Y | Census Poverty Data | Census Poverty Data | AARP Poverty Studies | 2nd Reference Search String: National Academies analysis of Older Adults in Poverty
- Veterans in Poverty - number of veterans below poverty per 100 veterans | d | 0-100 | Annual | Y | Y | VA Data | VA Poverty Data | National Coalition for Homeless Veterans | 2nd Reference Search String: National Academies analysis of Veterans in Poverty

#### Food and Basic Needs Access

- SNAP Participation - number of eligible individuals enrolled in SNAP per 100 eligible individuals | i | 0-100 | Annual | Y | Y | USDA SNAP Data | USDA SNAP Data | Center on Budget and Policy Priorities SNAP Studies | 2nd Reference Search String: National Academies analysis of SNAP Participation
- Food Insecurity - number of households lacking sufficient food per 100 households | d | 0-100 | Annual | Y | Y | USDA Food Security | USDA Food Security | Feeding America Food Insecurity | 2nd Reference Search String: National Academies analysis of Food Insecurity
- Free/Reduced Lunch Eligibility (Poverty) - number of students eligible for free/reduced lunch per 100 students | i | 0-100 | Annual | Y | Y | NCES School Nutrition | NCES School Nutrition | USDA School Meals Program | 2nd Reference Search String: National Academies analysis of Free/Reduced Lunch Eligibility
- Children with Low Hemoglobin - number of tested children with hemoglobin  $\leq 5$  per 100 tested children | d | 0-100 | Annual | Y | Y | CDC Nutrition Surveillance | CDC Nutrition Surveillance | State Health Department Data | 2nd Reference Search String: National Academies analysis of Children with Low Hemoglobin
- Children with Low Weight-for-Height - number of children underweight per 100 children measured | d | 0-100 | Annual | Y | Y | CDC Growth Charts | CDC Growth Charts | WHO Child Growth Standards | 2nd Reference Search String: National Academies analysis of Children with Low Weight-for-Height
- Veteran Food Insecurity - veterans reporting insufficient food access per 100 veterans | d | 0-100 | Annual | Y | Y | USDA Food Security Supplement | USDA Food Security | VA Veterans Food Security | 2nd Reference Search String: National Academies analysis of Veteran Food Insecurity



- Homeless Veterans Access to Meals - homeless veterans receiving daily meals per 100 homeless veterans | i | 0-100 | Annual | Y | Y | HUD Point-in-Time Count | HUD PIT | VA Homeless Programs | 2nd Reference Search String: National Academies analysis of Homeless Veterans Access to Meals



#### Social Services and Support

- Access to Social Services - number of service centers available per 100,000 population | i | 0-100,000 | Annual | Y | Y | HHS Locator | HHS Service Locator | Urban Institute Social Services Studies | 2nd Reference Search String: National Academies analysis of Access to Social Services
- TANF Participation - number of eligible families enrolled in TANF per 100 eligible families | i | 0-100 | Annual | Y | Y | ACF TANF Data | ACF TANF Data | Center on Budget and Policy Priorities TANF | 2nd Reference Search String: National Academies analysis of TANF Participation
- Housing Assistance Enrollment - number of eligible households enrolled in housing assistance per 100 eligible households | i | 0-100 | Annual | Y | Y | HUD Housing Assistance | HUD Housing Assistance | National Low Income Housing Coalition | 2nd Reference Search String: National Academies analysis of Housing Assistance Enrollment
- Households Receiving Public Assistance - number of households receiving AFDC, SNAP, Medicaid, WIC, etc. per 100 households | i | 0-100 | Annual | Y | Y | Census ACS | Census ACS | Brookings Public Assistance Studies | 2nd Reference Search String: National Academies analysis of Households Receiving Public Assistance
- VA Health Care Access - veterans enrolled in VA health care per 100 veterans | i | 0-100 | Annual | Y | Y | VA Health Administration | VA Health Care | CDC Veterans Health | 2nd Reference Search String: National Academies analysis of VA Health Care Access
- Veteran Mental Health Service Utilization - veterans receiving mental health services per 100 veterans | i | 0-100 | Annual | Y | Y | VA Mental Health Data | VA Mental Health | SAMHSA Veterans | 2nd Reference Search String: National Academies analysis of Veteran Mental Health Service Utilization
- Veteran Suicides - veteran deaths by suicide per 100,000 veterans | d | 0-100,000 | Annual | Y | Y | VA Suicide Prevention Data | VA Suicide Prevention | CDC Suicide Data | 2nd Reference Search String: National Academies analysis of Veteran Suicides

## Housing and Homelessness (Expanded for Children)

- Homelessness - number of homeless individuals per 10,000 population | d | 0-10,000 | Annual | Y | Y | HUD PIT Count | HUD PIT Count | National Alliance to End Homelessness | 2nd Reference Search String: National Academies analysis of Homelessness
- Families in Public Housing Below Poverty - number of families in public housing below poverty threshold per 100 public housing families | d | 0-100 | Annual | Y | Y | HUD Public Housing Data | HUD Public Housing Data | HUD USER | 2nd Reference Search String: National Academies analysis of Families in Public Housing Below Poverty
- Homeless Children - number of children experiencing homelessness per 1,000 children enrolled in school | d | 0-1,000 | Annual | Y | Y | NCHE / ED Homeless Children Data | National Center for Homeless Education | US Department of Education Homeless Children Reports | 2nd Reference Search String: National Academies analysis of Homeless Children
- Children in Foster Care Due to Housing Instability - number of foster care placements linked to housing issues per 1,000 foster care entries | d | 0-1,000 | Annual | Y | Y | HHS AFCARS | HHS AFCARS | Child Welfare Information Gateway | 2nd Reference Search String: National Academies analysis of Children in Foster Care Due to Housing Instability
- Children in Families Spending >30% Income on Housing - number of children living in cost-burdened households per 100 children | d | 0-100 | Annual | Y | Y | HUD CHAS | HUD CHAS | National Low Income Housing Coalition | 2nd Reference Search String: National Academies analysis of Children in Families Spending >30% Income on Housing
- School Mobility Due to Housing Instability - number of students changing schools mid-year due to housing loss per 1,000 students | d | 0-1,000 | Annual | Y | Y | NCHE / ED Data | National Center for Homeless Education | Annie E. Casey Foundation Education Studies | 2nd Reference Search String: National Academies analysis of School Mobility Due to Housing Instability
- Homeless Veterans - homeless veterans per 100,000 veterans | d | 0-100,000 | Annual | Y | Y | HUD Point-in-Time Count | HUD PIT | VA Homeless Programs | 2nd Reference Search String: National Academies analysis of Homeless Veterans
- Veterans Transition to Permanent Housing - veterans placed in permanent housing per 100 homeless veterans | i | 0-100 | Annual | Y | Y | HUD & VA Housing Programs | HUD PIT | VA Housing | 2nd Reference Search String: National Academies analysis of Veterans Transition to Permanent Housing

## Education and Opportunity

- Children in Poverty with Limited School Attendance - number of children missing  $\geq 10\%$  of school days per 100 children in poverty | d | 0-100 | Annual | Y | Y | NCES Chronic Absenteeism | NCES Chronic Absenteeism | Annie E. Casey Foundation Education Studies | 2nd Reference Search String: National Academies analysis of Children in Poverty with Limited School Attendance
- High School Graduation among Low-Income Students - number of graduates per 100 low-income students enrolled | i | 0-100 | Annual | Y | Y | NCES Graduation Data | NCES Graduation Data | Brookings Education Studies | 2nd Reference Search String: National Academies analysis of High School Graduation among Low-Income Students
- Postsecondary Enrollment among Low-Income Students - number of college enrollments per 100 low-income high school graduates | i | 0-100 | Annual | Y | Y | NCES College Enrollment | NCES College Enrollment | Pew Research Center Higher Education | 2nd Reference Search String: National Academies analysis of Postsecondary Enrollment among Low-Income Students
- Children in Poverty with No Internet Access - number of children lacking home internet per 100 children in poverty | d | 0-100 | Annual | Y | Y | Census ACS | Census ACS | Digital Divide Studies | 2nd Reference Search String: National Academies analysis of Children in Poverty with No Internet Access
- Youth Unemployment - number of unemployed individuals age 16-24 per 100 youth labor force participants | d | 0-100 | Annual | Y | Y | BLS Youth Employment | BLS Youth Employment | Urban Institute Youth Employment Studies | 2nd Reference Search String: National Academies analysis of Youth Unemployment
- Children in Poverty with Limited Early Childhood Education - number of children ages 3-5 not enrolled in preschool per 100 children in poverty | d | 0-100 | Annual | Y | Y | NCES Early Childhood Data | NCES Early Childhood Data | National Institute for Early Education Research | 2nd Reference Search String: National Academies analysis of Children in Poverty with Limited Early Childhood Education
- GI Bill Utilization - veterans using GI Bill benefits per 100 eligible veterans | i | 0-100 | Annual | Y | Y | VA Education Benefits | VA GI Bill | Census ACS Veterans | 2nd Reference Search String: National Academies analysis of GI Bill Utilization

- Veteran Higher Education Attainment - veterans with bachelor's degree or higher per 100 veterans | i | 0-100 | Annual | Y | Y | US Census ACS Veterans Data | Census ACS Veterans | VA Education | 2nd Reference Search String: National Academies analysis of Veteran Higher Education Attainment

[←](#) Back to Index

## Crime and Justice

◆ Effort Ideal: No Crime Under the Law

### Crime Incidence and Safety

- Violent Crimes - incidents per 100,000 population | d | 0-100,000 | Annual | Y | Y | FBI Crime Data Explorer | FBI Crime Data Explorer | BJS NCVS | 2nd Reference Search String: National Academies analysis of Violent Crimes
- Property Crimes - incidents per 100,000 population | d | 0-100,000 | Annual | Y | Y | FBI Crime Data Explorer | FBI Crime Data Explorer | BJS NCVS | 2nd Reference Search String: National Academies analysis of Property Crimes
- Gun-Related Deaths - deaths per 100,000 population | d | 0-100,000 | Annual | Y | Y | CDC Firearm Mortality | CDC Firearm Mortality | NIJ Firearm Studies | 2nd Reference Search String: National Academies analysis of Gun-Related Deaths
- Crime by Category - breakdown by type (assault, theft, homicide) per 100,000 population | d | 0-100,000 | Annual | Y | Y | BJS NCVS | BJS NCVS | FBI UCR | 2nd Reference Search String: National Academies analysis of Crime by Category
- Victims Receiving Support Services - percent of victims receiving aid/referrals per 100 victims | i | 0-100 | Annual | Y | Y | OVC Performance Measures | OVC Performance Measures | National Crime Victim Center | 2nd Reference Search String: National Academies analysis of Victims Receiving Support Services

### Apprehension and Arraignment

- Reported vs Unreported Crimes - percent of crimes not reported per 100 crimes | d | 0-100 | Annual | Y | Y | BJS NCVS | BJS NCVS | FBI Crime Data Explorer | 2nd Reference Search String: National Academies analysis of Reported vs Unreported Crimes
- Suspect Apprehensions - percent of reported crimes with suspect arrested per 100 crimes | i | 0-100 | Annual | Y | Y | FBI Clearance Rates | FBI Clearance Rates | BJS Law Enforcement Data | 2nd Reference Search String: National Academies analysis of Suspect Apprehensions
- Average Police Training Hours - annual training hours per officer | i | 0-1,000 | Annual | Y | Y | BJS Law Enforcement Management | BJS LEMAS | Police Executive Research Forum | 2nd Reference Search String: National Academies analysis of Average Police Training Hours

- Police Staffing Level - officers per 1,000 population | i | 0-1,000 | Annual | Y | Y | FBI UCR / BJS LEMAS | FBI UCR | BJS LEMAS | 2nd Reference Search String: National Academies analysis of Police Staffing Level
- Arraignments - percent of apprehended suspects arraigned per 100 suspects | i | 0-100 | Annual | Y | Y | State Court Statistics | National Center for State Courts | BJS Court Data | 2nd Reference Search String: National Academies analysis of Arraignments
- Time from Apprehension to Arraignment - average days per case | d | 0-365 | Annual | Y | Y | State Court Statistics | NCSC Court Statistics | BJS Court Data | 2nd Reference Search String: National Academies analysis of Time from Apprehension to Arraignment

#### Trial and Conviction

- Trials - percent of arraigned suspects tried per 100 suspects | i | 0-100 | Annual | Y | Y | State Court Statistics | NCSC Court Statistics | BJS Court Data | 2nd Reference Search String: National Academies analysis of Trials
- Time from Apprehension to Trial - average days per case | d | 0-730 | Annual | Y | Y | State Court Statistics | NCSC Court Statistics | BJS Court Data | 2nd Reference Search String: National Academies analysis of Time from Apprehension to Trial
- Time from Arraignment to Trial - average days per case | d | 0-730 | Annual | Y | Y | State Court Statistics | NCSC Court Statistics | BJS Court Data | 2nd Reference Search String: National Academies analysis of Time from Arraignment to Trial
- Convictions - percent of tried suspects convicted per 100 suspects | i | 0-100 | Annual | Y | Y | BJS Justice System Data | BJS Justice System Data | DOJ Criminal Justice Studies | 2nd Reference Search String: National Academies analysis of Convictions
- Convictions Overturned - percent of convictions reversed on appeal per 100 convictions | d | 0-100 | Annual | Y | Y | State Appellate Courts | NCSC Appellate Data | BJS Court Data | 2nd Reference Search String: National Academies analysis of Convictions Overturned

#### Drug Trafficking, Diversion, and Enforcement

- Drug Trafficking Arrests – arrests for trafficking offenses per 100,000 population | d | 0–200 | Annual | Y | Y | DOJ / DEA | <https://www.dea.gov/> | 2nd Reference Search String: National Academies analysis of Drug Trafficking Arrests
- Synthetic Opioid Seizures – kilograms of synthetic opioids seized per 100,000 population | d | 0–500 | Annual | Y | Y | DEA / CBP | <https://www.cbp.gov/> | 2nd Reference Search String: National Academies analysis of Synthetic Opioid Seizures

- Cartel-Linked Trafficking Cases – substantiated trafficking cases linked to transnational criminal organizations per 100,000 population | d | 0–10 | Annual | Y | Y | DOJ / DHS | <https://www.justice.gov/> | 2nd Reference Search String: National Academies analysis of Cartel Trafficking Cases
- Prescription Drug Diversion Cases – substantiated diversion cases per 10,000 controlled substance prescriptions | d | 0–20 | Annual | Y | Y | DEA ARCOS | <https://www.deadiversion.usdoj.gov/arcos/> | 2nd Reference Search String: National Academies analysis of Prescription Drug Diversion
- Pill Mill Enforcement Actions – enforcement actions against unlawful prescribing operations per 100,000 population | d | 0–5 | Annual | Y | Y | DOJ / DEA | <https://www.dea.gov/> | 2nd Reference Search String: National Academies analysis of Pill Mill Enforcement
- Drug-Related Violent Crime – violent crimes involving drug activity per 100,000 population | d | 0–200 | Annual | Y | Y | BJS | <https://bjs.ojp.gov/> | 2nd Reference Search String: National Academies analysis of Drug-Related Violent Crime
- Drug Market Hotspot Density – identified drug trafficking hotspots per 100 square miles | d | 0–20 | Annual | Y | Y | Local Law Enforcement / DEA HIDTA | <https://www.dea.gov/> | 2nd Reference Search String: National Academies analysis of Drug Market Hotspots
- Mail-Based Drug Interdictions – drug interdictions in mail or parcel systems per 100,000 population | d | 0–20 | Annual | Y | Y | USPS Inspection Service | <https://www.uspis.gov/> | 2nd Reference Search String: National Academies analysis of Mail-Based Drug Interdictions
- Precursor Chemical Seizures – precursor chemical seizures per 100,000 population | d | 0–100 | Annual | Y | Y | DEA / CBP | <https://www.cbp.gov/> | 2nd Reference Search String: National Academies analysis of Precursor Chemical Seizures



#### Fraud, Waste, and Abuse in Public Systems

- Substantiated Medicaid Fraud Cases – substantiated Medicaid fraud cases per 100,000 beneficiaries | d | 0–50 | Annual | Y | Y | HHS OIG / State Medicaid Fraud Control Units | <https://oig.hhs.gov/> | 2nd Reference Search String: National Academies analysis of Medicaid Fraud

- Substantiated Medicare Fraud Cases – substantiated Medicare fraud cases per 100,000 beneficiaries | d | 0–50 | Annual | Y | Y | HHS OIG / CMS | <https://oig.hhs.gov/> | 2nd Reference Search String: National Academies analysis of Medicare Fraud
- Substantiated Housing Assistance Fraud (Section 8) – substantiated housing assistance fraud cases per 10,000 assisted households | d | 0–20 | Annual | Y | Y | HUD OIG | <https://www.hudoig.gov/> | 2nd Reference Search String: National Academies analysis of Housing Assistance Fraud
- Substantiated Childcare Program Fraud – substantiated fraud cases in childcare subsidy or early learning programs per 10,000 enrolled children | d | 0–20 | Annual | Y | Y | HHS OIG / State Childcare Agencies | <https://oig.hhs.gov/> | 2nd Reference Search String: National Academies analysis of Childcare Program Fraud
- Substantiated Disability Services Fraud – substantiated fraud cases in disability support programs per 10,000 beneficiaries | d | 0–20 | Annual | Y | Y | SSA OIG / State Disability Agencies | <https://oig.ssa.gov/> | 2nd Reference Search String: National Academies analysis of Disability Services Fraud
- Substantiated Environmental Program Fraud – substantiated fraud cases involving environmental grants, permits, or enforcement per 10,000 regulated entities | d | 0–20 | Annual | Y | Y | EPA OIG | <https://www.epa.gov/oig> | 2nd Reference Search String: National Academies analysis of Environmental Program Fraud
- Substantiated Animal Welfare Program Fraud – substantiated fraud cases in animal welfare enforcement or licensing programs per 10,000 facilities | d | 0–20 | Annual | Y | Y | USDA OIG | <https://www.usda.gov/oig> | 2nd Reference Search String: National Academies analysis of Animal Welfare Program Fraud
- Substantiated Homeless Services Fraud – substantiated fraud cases in homelessness assistance programs per 10,000 program participants | d | 0–20 | Annual | Y | Y | HUD OIG / Local Auditors | <https://www.hudoig.gov/> | 2nd Reference Search String: National Academies analysis of Homeless Services Fraud
- Substantiated Transportation Services Fraud – substantiated fraud cases involving publicly funded transportation services per 10,000 service claims | d | 0–20 | Annual | Y | Y | State Auditors / HHS OIG | <https://oig.hhs.gov/> | 2nd Reference Search String: National Academies analysis of Transportation Services Fraud
- Substantiated Translation & Interpretation Services Fraud – substantiated fraud cases involving publicly funded translation or interpretation services per 10,000 service claims



| d | 0–20 | Annual | Y | Y | DOJ OIG / State Auditors | <https://oig.justice.gov/> | 2nd Reference Search String: National Academies analysis of Translation Services Fraud

- Disaster Relief Funds Misallocation – substantiated misallocation or improper payments in disaster relief programs per \$100 million distributed | d | 0–20 | Annual | Y | Y | FEMA OIG / GAO | <https://www.oig.dhs.gov/> | 2nd Reference Search String: National Academies analysis of Disaster Relief Fund Misallocation

### Serious Convictions

- Serious Violent Crime Convictions - convictions per 100,000 population | i | 0-100,000 | Annual | Y | Y | BJS Justice System Data | BJS Justice System Data | DOJ Criminal Justice Studies | 2nd Reference Search String: National Academies analysis of Serious Violent Crime Convictions
- Serious Property Crime Convictions - convictions per 100,000 population | i | 0-100,000 | Annual | Y | Y | BJS Justice System Data | BJS Justice System Data | DOJ Criminal Justice Studies | 2nd Reference Search String: National Academies analysis of Serious Property Crime Convictions
- Serious Drug Trafficking Convictions - convictions per 100,000 population | i | 0-100,000 | Annual | Y | Y | DEA / BJS Justice System Data | DEA Drug Data | BJS Justice System Data | 2nd Reference Search String: National Academies analysis of Serious Drug Trafficking Convictions
- Serious White-Collar Crime Convictions - convictions per 100,000 population | i | 0-100,000 | Annual | Y | Y | DOJ / BJS Justice System Data | DOJ Criminal Justice Studies | BJS Justice System Data | 2nd Reference Search String: National Academies analysis of Serious White-Collar Crime Convictions

### Punishment and Corrections

- Incarceration - inmates per 100,000 population | d | 0-100,000 | Annual | Y | Y | BJS Prison Statistics | BJS Prison Statistics | Vera Institute | 2nd Reference Search String: National Academies analysis of Incarceration
- Cost of Incarceration - average annual cost per inmate | d | 0-100,000 | Annual | Y | Y | Vera Institute | Vera Institute | BJS Corrections Data | 2nd Reference Search String: National Academies analysis of Cost of Incarceration
- Sentence Completion - percent of sentence served per 100 inmates | i | 0-100 | Annual | Y | Y | BJS Corrections Data | BJS Corrections Data | DOJ Corrections Studies | 2nd Reference Search String: National Academies analysis of Sentence Completion

- Crime in Prison - incidents per 1,000 inmates | d | 0-1,000 | Annual | Y | Y | BJS Prison Statistics | BJS Prison Statistics | DOJ Corrections Studies | 2nd Reference Search String: National Academies analysis of Crime in Prison
- Facility Capacity vs Need - occupancy vs rated capacity per 100 facilities | g | 0-100 | Annual | Y | Y | BJS Corrections Data | BJS Corrections Data | NIC Corrections | 2nd Reference Search String: National Academies analysis of Facility Capacity vs Need
- Facility Quality Rating (Crime and Justice) - percent rated 4 or 5 stars per 100 facilities | i | 0-100 | Annual | Y | Y | State Corrections Reports | State Corrections Reports | BJS Corrections Data | 2nd Reference Search String: National Academies analysis of Facility Quality Rating
- Average Corrections Staff Training Hours - annual training hours per employee | i | 0-1,000 | Annual | Y | Y | BJS Law Enforcement Management | BJS LEMAS | NIC Corrections Training | 2nd Reference Search String: National Academies analysis of Average Corrections Staff Training Hours
- Corrections Staffing Level - correctional officers per 100 inmates | i | 0-100 | Annual | Y | Y | BJS Corrections Workforce Data | BJS Corrections Workforce | NIC Corrections | 2nd Reference Search String: National Academies analysis of Corrections Staffing Level
- Jail Staffing Level - jail personnel per 100 inmates | i | 0-100 | Annual | Y | Y | BJS Jail Workforce Data | BJS Jail Workforce | NIC Jails | 2nd Reference Search String: National Academies analysis of Jail Staffing Level

#### Rehabilitation and recidivism

- Rehabilitation Program Completion - program completers per 100 enrolled inmates | i | 0-100 | Annual | Y | Y | BJS Corrections Data | BJS Corrections Data | DOJ Reentry | 2nd Reference Search String: National Academies analysis of Rehabilitation Program Completion
- Recidivism - individuals rearrested within 3 years per 100 releases | d | 0-100 | Annual | Y | Y | BJS Recidivism Data | BJS Recidivism | NIJ Recidivism Studies | 2nd Reference Search String: National Academies analysis of Recidivism
- Recidivism After Rehabilitation - program completers rearrested within 3 years per 100 completers | d | 0-100 | Annual | Y | Y | BJS Corrections Data | BJS Corrections Data | DOJ Reentry | 2nd Reference Search String: National Academies analysis of Recidivism After Rehabilitation

- Employment Within 6 Months Post-Release - employed individuals per 100 releases | i | 0-100 | Annual | Y | Y | DOL Reentry | DOL Reentry Employment | Urban Institute Reentry | 2nd Reference Search String: National Academies analysis of Employment Within 6 Months Post-Release

#### Community trust and oversight

- Police Misconduct Complaints - complaints per 1,000 officers | d | 0-1,000 | Annual | Y | Y | DOJ Civil Rights Division | DOJ Civil Rights | BJS Law Enforcement | 2nd Reference Search String: National Academies analysis of Police Misconduct Complaints
- Community Safety Perception Index - residents feeling safe per 100 residents | i | 0-100 | Annual | Y | Y | Gallup Safety Poll | Gallup | Urban Institute Safety Perceptions | 2nd Reference Search String: National Academies analysis of Community Safety Perception Index
- Use of Body Cameras by Police - departments equipped per 100 departments | i | 0-100 | Annual | Y | Y | BJS Law Enforcement Management | BJS LEMAS | PERF Body-Worn Cameras | 2nd Reference Search String: National Academies analysis of Use of Body Cameras by Police
- Public Defender Caseload - cases per attorney | g | 0-300 | Annual | Y | Y | BJS Justice System Data | BJS Justice System | ABA Standards | 2nd Reference Search String: National Academies analysis of Public Defender Caseload
- Pretrial Detention - detained pretrial per 100 defendants | d | 0-100 | Annual | Y | Y | BJS Corrections Data | BJS Corrections | Pretrial Justice Institute | 2nd Reference Search String: National Academies analysis of Pretrial Detention

 [Back to Index](#)

## Work

◆ Effort Ideal: Every Person Wanting to Work Is Able to Find Safe, Acceptable Work Within a Reasonable Time at At Least a Livable Wage

### Employment and Labor Market

- Employment - employed working-age individuals per 100 population | i | 0-100 | Monthly/Annual | Y | Y | BLS Employment Data | BLS Employment | Census CPS | 2nd Reference Search String: National Academies analysis of Employment
- Unemployment - unemployed workers per 100 labor force participants | d | 0-100 | Monthly/Annual | Y | Y | BLS Unemployment | BLS Unemployment | Census CPS | 2nd Reference Search String: National Academies analysis of Unemployment
- Underemployment - part-time/skill-mismatch workers per 100 labor force participants | d | 0-100 | Annual | Y | Y | BLS Alternative Measures | BLS U-6 | Federal Reserve Labor Market | 2nd Reference Search String: National Academies analysis of Underemployment
- Labor Force Participation (Employed) - working-age residents in labor force per 100 people | i | 0-100 | Monthly/Annual | Y | Y | BLS Labor Force | BLS LFPR | Census CPS | 2nd Reference Search String: National Academies analysis of Labor Force Participation
- Job Vacancy - openings per 100 jobs | i | 0-100 | Monthly | Y | Y | BLS JOLTS | BLS JOLTS | Indeed Hiring Lab | 2nd Reference Search String: National Academies analysis of Job Vacancy
- Turnover - separations per 100 workers | g | 0-100 | Monthly | Y | Y | BLS JOLTS | BLS JOLTS | SHRM Turnover Benchmarks | 2nd Reference Search String: National Academies analysis of Turnover

### Wages and Compensation

- Median Hourly Wage - dollars per hour | i | 0-1000 | Annual | Y | Y | BLS Wage Data | BLS OES | Census ACS Income | 2nd Reference Search String: National Academies analysis of Median Hourly Wage
- Minimum Wage Compliance - employers in compliance per 100 employers | i | 0-100 | Annual | Y | Y | DOL Wage and Hour Division | DOL WHD | State Labor Agencies | 2nd Reference Search String: National Academies analysis of Minimum Wage Compliance

- Gender Pay Gap - female earnings to male earnings per 100 | i | 0-100 | Annual | Y | Y | Census Income Data | Census Income | BLS Earnings | 2nd Reference Search String: National Academies analysis of Gender Pay Gap
- Livable Wage Benchmark - estimated hourly wage needed for basic needs per region | g | 0-1000 | Annual | Y | Y | MIT Living Wage Calculator | MIT LWC | EPI Family Budget | 2nd Reference Search String: National Academies analysis of Livable Wage Benchmark

## Workplace Safety and Conditions

- Workplace Injuries - OSHA-recordable injuries per 100 full-time workers | d | 0-100 | Annual | Y | Y | BLS Injury and Illness Data | BLS SOII | OSHA | 2nd Reference Search String: National Academies analysis of Workplace Injuries
- Fatal Occupational Injury - deaths per 100,000 workers | d | 0-100,000 | Annual | Y | Y | BLS Fatal Injury Data | BLS CFOI | NIOSH | 2nd Reference Search String: National Academies analysis of Fatal Occupational Injury
- Access to Paid Leave - workers with paid sick leave per 100 workers | i | 0-100 | Annual | Y | Y | BLS Employee Benefits | BLS NCS | OECD Paid Leave | 2nd Reference Search String: National Academies analysis of Access to Paid Leave
- Occupational Safety Compliance - workplaces meeting OSHA standards per 100 workplaces | i | 0-100 | Annual | Y | Y | OSHA Enforcement Data | OSHA Enforcement | BLS Safety | 2nd Reference Search String: National Academies analysis of Occupational Safety Compliance

## Training and Advancement

- Access to Job Training Programs - programs per 100,000 population | i | 0-100,000 | Annual | Y | Y | DOL Workforce Development | DOL WIOA | State Workforce Boards | 2nd Reference Search String: National Academies analysis of Access to Job Training Programs
- Apprenticeship Enrollment - participants per 100,000 workers | i | 0-100,000 | Annual | Y | Y | DOL Apprenticeship Data | DOL Apprenticeship | NCT Apprenticeships | 2nd Reference Search String: National Academies analysis of Apprenticeship Enrollment
- Workforce Preparedness Index - workers with needed skills per 100 workers | i | 0-100 | Annual | Y | Y | NSC Skills Data | National Skills Coalition | OECD Skills | 2nd Reference Search String: National Academies analysis of Workforce Preparedness Index

- Career Advancement Satisfaction - workers satisfied with growth opportunities per 100 workers | i | 0-100 | Annual | Y | Y | Gallup Workplace Poll | Gallup Workplace | SHRM Employee Engagement | 2nd Reference Search String: National Academies analysis of Career Advancement Satisfaction

[!\[\]\(d0a1791f26d167e866e44ebbf83efebe\_img.jpg\) Back to Index](#)



## Immigration

◆ Effort Ideal: A Fair, Lawful, and Productive Immigration System That Benefits All Residents



### Population and Status

- Foreign-Born Population Share – foreign-born residents per 100 total population | i | 0–100 | Annual | Y | Y | Census Immigration Data | <https://www.census.gov/topics/population/foreign-born.html> | 2nd Reference Search String: National Academies analysis of Foreign-Born Population Share
- Naturalization – eligible immigrants becoming citizens per 100 eligible | i | 0–100 | Annual | Y | Y | USCIS Naturalization Data | <https://www.uscis.gov/> | 2nd Reference Search String: National Academies analysis of Naturalization
- Undocumented Immigrant Estimate – undocumented residents per 100 total population | d | 0–100 | Annual | Y | Y | Pew Research Immigration | <https://www.pewresearch.org/> | 2nd Reference Search String: National Academies analysis of Undocumented Immigrant Estimate
- Mixed-Status Household Share – households with legal + undocumented members per 100 households | g | 0–100 | Annual | Y | Y | Census ACS | <https://www.census.gov/programs-surveys/acs> | 2nd Reference Search String: National Academies analysis of Mixed-Status Household Share
- Temporary Visa Holder Count – nonimmigrant visa holders per 100,000 population | i | 0–100,000 | Annual | Y | Y | DHS Nonimmigrant Admissions | <https://www.dhs.gov/immigration-statistics> | 2nd Reference Search String: National Academies analysis of Temporary Visa Holder Count
- Refugee and Asylee Admissions – arrivals/approvals per 100,000 population | i | 0–100,000 | Annual | Y | Y | ORR & USCIS | <https://www.acf.hhs.gov/orr> | 2nd Reference Search String: National Academies analysis of Refugee and Asylee Admissions
- Unaccompanied Minor Entries – children entering without guardians per 1,000 minors | d | 0–1,000 | Annual | Y | Y | DHS & ORR | <https://www.dhs.gov/> | 2nd Reference Search String: National Academies analysis of Unaccompanied Minor Entries



### Legal System and Enforcement

- Average Asylum Hearing Wait Time – median days from application to decision | d | 0–1,000 | Annual | Y | Y | EOIR Case Data | <https://www.justice.gov/eoir> | 2nd Reference Search String: National Academies analysis of Average Asylum Hearing Wait Time

- Immigration-Related Detention Population – detainees per 100,000 population | d | 0–100,000 | Annual | Y | Y | ICE Detention Statistics | <https://www.ice.gov/> | 2nd Reference Search String: National Academies analysis of Immigration-Related Detention Population
- Immigrant Arrests – arrests per 100,000 foreign-born residents | d | 0–100,000 | Annual | Y | Y | BJS & DHS Enforcement Data | <https://bjs.ojp.gov/> | 2nd Reference Search String: National Academies analysis of Immigrant Arrests
- Undocumented Immigrant Serious Crime – serious crime convictions per 100,000 undocumented residents | d | 0–100,000 | Annual | Y | Y | DHS / BJS | <https://bjs.ojp.gov/> | 2nd Reference Search String: National Academies analysis of Undocumented Immigrant Serious Crime
- Immigrant Victimization – immigrants reporting crime victimization per 100 immigrants | d | 0–100 | Annual | Y | Y | BJS NCVS | <https://bjs.ojp.gov/> | 2nd Reference Search String: National Academies analysis of Immigrant Victimization
- Immigration Benefit Fraud Cases – substantiated cases of fraud in immigration benefit applications per 10,000 applications | d | 0–20 | Annual | Y | Y | USCIS / DOJ | <https://www.uscis.gov/> | 2nd Reference Search String: National Academies analysis of Immigration Benefit Fraud

#### Border and Entry Management

- Visa Overstay Rate – individuals who overstay visas per 100 visa admissions | d | 0–20 | Annual | Y | Y | DHS | <https://www.dhs.gov/> | 2nd Reference Search String: National Academies analysis of Visa Overstay Rates
- Unresolved Lawful Permanent Resident Non-Compliance – lawful permanent residents who fail required address reporting or status compliance per 100 LPRs | d | 0–10 | Annual | Y | Y | DHS | <https://www.dhs.gov/> | 2nd Reference Search String: National Academies analysis of LPR Non-Compliance
- Border Encounter Resolution Rate – border encounters resolved through lawful processing per 100 encounters | i | 0–100 | Annual | Y | Y | CBP | <https://www.cbp.gov/> | 2nd Reference Search String: National Academies analysis of Border Encounter Resolution
- Ports of Entry Processing Capacity – individuals processed at ports of entry per 1,000 population | i | 0–5,000 | Annual | Y | Y | CBP | <https://www.cbp.gov/> | 2nd Reference Search String: National Academies analysis of Ports of Entry Processing Capacity



- Legal Entries at Ports of Entry – individuals admitted through official ports of entry (land, air, and sea) per 1,000 population | i | 0–10,000 | Annual | Y | Y | CBP | <https://www.cbp.gov/> | 2nd Reference Search String: National Academies analysis of Legal Entries at Ports of Entry
- Border Encounters Between Ports of Entry – encounters between ports of entry per 1,000 miles of border | d | 0–50,000 | Annual | Y | Y | CBP | <https://www.cbp.gov/> | 2nd Reference Search String: National Academies analysis of Encounters Between Ports of Entry
- Recorded Got-Aways – individuals observed but not apprehended (“got-aways”) per 1,000 miles of border | d | 0–20,000 | Annual | Y | Y | CBP / DHS | <https://www.dhs.gov/> | 2nd Reference Search String: National Academies analysis of Got-Away Estimates
- Immigration Removals and Returns – removals and returns per 1,000 noncitizen encounters | i | 0–1,000 | Annual | Y | Y | DHS | <https://www.dhs.gov/> | 2nd Reference Search String: National Academies analysis of Immigration Removals and Returns

#### System Integrity and Security

- Known or Suspected Threat Actor Interdictions – individuals identified through watchlist or intelligence screening and interdicted at ports of entry per 100,000 admissions | d | 0–5 | Annual | Y | Y | DHS / FBI | <https://www.dhs.gov/> | 2nd Reference Search String: National Academies analysis of Threat Actor Interdictions
- Transnational Criminal Organization (TCO) Interdictions – individuals linked to transnational criminal organizations interdicted at borders per 100,000 encounters | d | 0–10 | Annual | Y | Y | DHS / CBP | <https://www.cbp.gov/> | 2nd Reference Search String: National Academies analysis of TCO Interdictions
- Immigration Document Fraud Cases – substantiated document fraud cases (forged or altered immigration documents) per 10,000 inspections | d | 0–20 | Annual | Y | Y | DHS / DOJ | <https://www.dhs.gov/> | 2nd Reference Search String: National Academies analysis of Immigration Document Fraud
- Immigration System Integrity Index – required integrity safeguards (background checks, biometrics, verification systems) implemented per 100 required safeguards | i | 0–100 | Annual | Y | Y | DHS / USCIS | <https://www.uscis.gov/> | 2nd Reference Search String: National Academies analysis of Immigration System Integrity

## Integration and Economic Contribution

- Economic Contribution of Immigrant Workers – net GDP contribution per 100 immigrant workers | i | 0–100 | Annual | Y | Y | BLS / CBO | <https://www.bls.gov/> | 2nd Reference Search String: National Academies analysis of Economic Contribution of Immigrant Workers
- Immigrant Labor Force Participation – immigrants in the labor force per 100 working-age immigrants | i | 0–100 | Annual | Y | Y | BLS | <https://www.bls.gov/> | 2nd Reference Search String: National Academies analysis of Immigrant Labor Force Participation
- English Proficiency Among Immigrants – immigrants with proficient English per 100 immigrants | i | 0–100 | Annual | Y | Y | Census ACS | <https://www.census.gov/programs-surveys/acs> | 2nd Reference Search String: National Academies analysis of Immigrant English Proficiency
- Estimated Fiscal Impact of Undocumented Immigrants – net fiscal cost per undocumented resident | d | 0–100,000 | Annual | Y | Y | Mixed Sources (e.g., CBO, academic studies) | <https://www.cbo.gov/> | 2nd Reference Search String: National Academies analysis of Fiscal Impact of Undocumented Immigrants

 [Back to Index](#)

## Toxic Burden

◆ Effort Ideal: No Toxic Body Burden

### Internal Toxic Burden (Biomarkers and Exposure)

- Age-Based Toxin Exposure Index - elevated chemical biomarkers per person by age group | d | 0-100 | Annual | Y | Y | CDC National Exposure Report | CDC Exposure Report | NIH Environmental Health | 2nd Reference Search String: National Academies analysis of Age-Based Toxin Exposure Index
- Lead Biomarker Level - geometric mean blood lead per 100 persons | d | 0-100 | Annual | Y | Y | CDC NHANES | CDC NHANES | EPA Lead Studies | 2nd Reference Search String: National Academies analysis of Lead Biomarker Level
- Mercury Biomarker Level - blood/urine mercury per 100 persons | d | 0-100 | Annual | Y | Y | CDC NHANES | CDC NHANES | EPA Mercury Studies | 2nd Reference Search String: National Academies analysis of Mercury Biomarker Level
- Arsenic Biomarker Level - urine arsenic per 100 persons | d | 0-100 | Annual | Y | Y | CDC NHANES | CDC NHANES | EPA Arsenic Studies | 2nd Reference Search String: National Academies analysis of Arsenic Biomarker Level
- Cadmium Biomarker Level - blood cadmium per 100 persons | d | 0-100 | Annual | Y | Y | CDC NHANES | CDC NHANES | EPA Cadmium Studies | 2nd Reference Search String: National Academies analysis of Cadmium Biomarker Level
- Phthalates Biomarker Level - urine metabolites per 100 persons | d | 0-100 | Annual | Y | Y | CDC NHANES | CDC NHANES | NIH Environmental Health | 2nd Reference Search String: National Academies analysis of Phthalates Biomarker Level
- Flame Retardants (PBDEs) - serum levels per 100 persons | d | 0-100 | Annual | Y | Y | CDC NHANES | CDC NHANES | EPA PBDE Studies | 2nd Reference Search String: National Academies analysis of Flame Retardants (PBDEs)
- BPA (Bisphenol A) - urine levels per 100 persons | d | 0-100 | Annual | Y | Y | CDC NHANES | CDC NHANES | NIH BPA Studies | 2nd Reference Search String: National Academies analysis of BPA (Bisphenol A)
- Pesticide Metabolites - urine levels per 100 persons | d | 0-100 | Annual | Y | Y | CDC NHANES | CDC NHANES | USDA Pesticide Data | 2nd Reference Search String: National Academies analysis of Pesticide Metabolites

- Air Quality Index (AQI) Days - unhealthy AQI days per 365 days | d | 0-365 | Annual | Y | Y | EPA Air Data | EPA AQI | CDC Air Quality | 2nd Reference Search String: National Academies analysis of Air Quality Index (AQI) Days
- Water Quality Violations - systems with violations per 100 systems | d | 0-100 | Annual | Y | Y | EPA Safe Drinking Water | EPA SDWIS | CDC Water Quality | 2nd Reference Search String: National Academies analysis of Water Quality Violations
- Air Pollutant Emissions (PM2.5) - tons per year | d | 0-1,000,000 | Annual | Y | Y | EPA Emissions Inventory | EPA Emissions | CDC Environmental Health | 2nd Reference Search String: National Academies analysis of Air Pollutant Emissions (PM2.5)

#### Food and Chemical Safety

- Food Quality Inspection Failures - establishments failing per 100 inspected | d | 0-100 | Annual | Y | Y | FDA Food Safety | FDA Food Safety | CDC Foodborne Illness | 2nd Reference Search String: National Academies analysis of Food Quality Inspection Failures
- Pesticide Residue in Produce - samples exceeding limits per 100 tested | d | 0-100 | Annual | Y | Y | USDA Pesticide Data Program | USDA PDP | EPA Pesticide Studies | 2nd Reference Search String: National Academies analysis of Pesticide Residue in Produce
- Toxin Release Inventory (TRI) - pounds of toxic chemicals released per 1,000 residents | d | 0-1,000,000 | Annual | Y | Y | EPA TRI Explorer | EPA TRI | CDC Environmental Health | 2nd Reference Search String: National Academies analysis of Toxin Release Inventory (TRI)
- Hazardous Waste Generation - tons per 1,000 residents | d | 0-1,000,000 | Annual | Y | Y | EPA RCRAInfo | EPA RCRA | NIH Environmental Health | 2nd Reference Search String: National Academies analysis of Hazardous Waste Generation
- Sewage Treatment Compliance - facilities in compliance per 100 facilities | i | 0-100 | Annual | Y | Y | EPA Clean Water Act Data | EPA CWA | CDC Water Quality | 2nd Reference Search String: National Academies analysis of Sewage Treatment Compliance

#### Vulnerable Populations and Environmental Justice

- Schools Near Major Pollution Sources - schools within 1 mile of major sources per 100 schools | d | 0-100 | Annual | Y | Y | EPA EJScreen | EPA EJScreen | CDC Environmental Tracking | 2nd Reference Search String: National Academies analysis of Schools Near Major Pollution Sources

- Low-Income Communities with TRI Sites - census tracts with TRI sites per 100 tracts | d | 0-100 | Annual | Y | Y | EPA EJScreen | EPA EJScreen | NIH Environmental Justice | 2nd Reference Search String: National Academies analysis of Low-Income Communities with TRI Sites
- Children in High-Risk ZIP Codes - children exposed to multiple hazards per 100 children | d | 0-100 | Annual | Y | Y | CDC Environmental Public Health Tracking | CDC EPHT | EPA EJ Studies | 2nd Reference Search String: National Academies analysis of Children in High-Risk ZIP Codes

#### Behavioral and Health Risk Burden

- Smoking (Adults) - adults who smoke per 100 adults | d | 0-100 | Annual | Y | Y | CDC BRFSS | CDC BRFSS | NIH Tobacco Studies | 2nd Reference Search String: National Academies analysis of Smoking
- Poor Diet Prevalence - adults not meeting nutrition guidelines per 100 adults | d | 0-100 | Annual | Y | Y | CDC Nutrition Surveillance | CDC Nutrition | USDA Dietary Guidelines | 2nd Reference Search String: National Academies analysis of Poor Diet Prevalence
- Obesity (Adults) - overweight/obese adults per 100 adults | d | 0-100 | Annual | Y | Y | CDC Obesity Data | CDC Obesity | NIH Obesity Studies | 2nd Reference Search String: National Academies analysis of Obesity
- Physical Inactivity - adults not exercising per 100 adults | d | 0-100 | Annual | Y | Y | CDC BRFSS | CDC BRFSS | NIH Physical Activity | 2nd Reference Search String: National Academies analysis of Physical Inactivity
- Substance Abuse (Adults) - adults using illegal drugs per 100 adults | d | 0-100 | Annual | Y | Y | SAMHSA NSDUH | SAMHSA NSDUH | NIH Drug Abuse | 2nd Reference Search String: National Academies analysis of Substance Abuse
- Excessive Alcohol Use - adults reporting binge/heavy drinking per 100 adults | d | 0-100 | Annual | Y | Y | CDC Alcohol Data | CDC Alcohol | NIH Alcohol Studies | 2nd Reference Search String: National Academies analysis of Excessive Alcohol Use
- Hypertension Diagnosis - adults diagnosed per 100 adults | d | 0-100 | Annual | Y | Y | CDC Heart Disease Data | CDC Heart Disease | NIH Hypertension | 2nd Reference Search String: National Academies analysis of Hypertension Diagnosis
- Diabetes Diagnosis - adults diagnosed per 100 adults | d | 0-100 | Annual | Y | Y | CDC Diabetes Data | CDC Diabetes | NIH Diabetes | 2nd Reference Search String: National Academies analysis of Diabetes Diagnosis

- Self-Reported Poor Health - adults reporting less than good health per 100 adults | d | 0-100 | Annual | Y | Y | CDC BRFSS | CDC BRFSS | NIH Public Health | 2nd Reference Search String: National Academies analysis of Self-Reported Poor Health
- Seatbelt Non-Use - adults not regularly using seatbelts per 100 adults | d | 0-100 | Annual | Y | Y | NHTSA Safety Data | NHTSA Safety | CDC Injury Prevention | 2nd Reference Search String: National Academies analysis of Seatbelt Non-Use

#### Linked Burdens (+)

- Abuse Exposure - individuals reporting physical/emotional abuse per 100 adults | d | 0-100 | Annual | Y | Y | CDC ACEs Data | CDC ACEs | NIH Trauma Studies | 2nd Reference Search String: National Academies analysis of Abuse Exposure
- Poverty-Linked Toxic Exposure Index - composite exposure score in low-income areas per 100 tracts | d | 0-100 | Annual | Y | Y | EPA EJScreen | EPA EJScreen | CDC Environmental Tracking | 2nd Reference Search String: National Academies analysis of Poverty-Linked Toxic Exposure Index
- Crime-Linked Environmental Risk Index - correlation of crime and pollution burden per 100 tracts | g | 0-100 | Annual | Y | Y | CDC & DOJ Environmental Justice | CDC Environmental Justice | DOJ Environmental Justice | 2nd Reference Search String: National Academies analysis of Crime-Linked Environmental Risk Index

 [Back to Index](#)

## People

### ◆ Effort Ideal: A Healthy, Fit, Independent Population

#### General Health and Functioning

- Self-Reported Health Status - adults reporting “good” or better health per 100 adults | i | 0-100 | Annual | Y | Y | CDC BRFSS | CDC BRFSS | NIH Public Health | 2nd Reference Search String: National Academies analysis of Self-Reported Health Status
- Physical Activity Compliance - adults meeting physical activity guidelines per 100 adults | i | 0-100 | Annual | Y | Y | CDC Physical Activity | CDC Physical Activity | NIH Exercise Studies | 2nd Reference Search String: National Academies analysis of Physical Activity Compliance
- Obesity (People) - adults with BMI  $\geq 30$  per 100 adults | d | 0-100 | Annual | Y | Y | CDC Obesity Data | CDC Obesity | NIH Obesity Studies | 2nd Reference Search String: National Academies analysis of Obesity

#### Aging and Independence

- Independent Living Difficulty - number of adults 65+ with limitations per 100 adults 65+ | d | 0-100 | Annual | Y | Y | CDC Disability Data | CDC Disability | Administration for Community Living | 2nd Reference Search String: National Academies analysis of Independent Living Difficulty
- Access to Assistive Devices - elderly with needed devices per 100 elderly | i | 0-100 | Annual | Y | Y | Administration for Community Living | ACL Data | NIH Aging Studies | 2nd Reference Search String: National Academies analysis of Access to Assistive Devices
- Long-Term Care Facility Access - facilities per 100,000 elderly | i | 0-100,000 | Annual | Y | Y | CMS Nursing Home Compare | CMS Nursing Home | AHRQ Long-Term Care | 2nd Reference Search String: National Academies analysis of Long-Term Care Facility Access

#### Mental and Emotional Wellbeing

- Depression Prevalence - adults diagnosed per 100 adults | d | 0-100 | Annual | Y | Y | CDC Mental Health | CDC Mental Health | NIH Depression Studies | 2nd Reference Search String: National Academies analysis of Depression Prevalence
- Youth Depression Prevalence - adolescents diagnosed per 100 youth | d | 0-100 | Annual | Y | Y | CDC Youth Risk Behavior Surveillance | CDC YRBS | SAMHSA Youth Mental Health | 2nd Reference Search String: National Academies analysis of Youth Depression Prevalence

- Social Isolation Among Elderly - elderly reporting infrequent contact per 100 elderly | d | 0-100 | Annual | Y | Y | AARP Loneliness Index | AARP Loneliness | NIH Aging Studies | 2nd Reference Search String: National Academies analysis of Social Isolation Among Elderly
- Suicides - deaths per 100,000 population | d | 0-100,000 | Annual | Y | Y | CDC Suicide Data | CDC Suicide | NIH Suicide Studies | 2nd Reference Search String: National Academies analysis of Suicides
- Veterans Suicides - deaths per 100,000 veterans | d | 0-100,000 | Annual | Y | Y | VA Suicide Prevention Data | VA Suicide Prevention | CDC Suicide | 2nd Reference Search String: National Academies analysis of Veterans Suicides

#### Disability and Inclusion

- Disability Prevalence - population with any disability per 100 population | d | 0-100 | Annual | Y | Y | CDC Disability Data | CDC Disability | NIH Disability Studies | 2nd Reference Search String: National Academies analysis of Disability Prevalence
- Employment Among Disabled Adults - employed disabled adults per 100 disabled adults | i | 0-100 | Annual | Y | Y | BLS Disability Employment | BLS Disability Employment | EEOC Disability Data | 2nd Reference Search String: National Academies analysis of Employment Among Disabled Adults
- Access to Public Accommodations - facilities ADA-compliant per 100 facilities | i | 0-100 | Annual | Y | Y | DOJ ADA Compliance | DOJ ADA | EEOC Accessibility | 2nd Reference Search String: National Academies analysis of Access to Public Accommodations
- Transition to Independent Living with Support - disabled adults successfully transitioned per 100 disabled adults | i | 0-100 | Annual | Y | Y | Administration for Community Living | ACL Independent Living | CDC Disability Data | 2nd Reference Search String: National Academies analysis of Transition to Independent Living with Support

#### Behavioral Health and Good Habits

- Smoking (Adults) - adults who smoke per 100 adults | d | 0-100 | Annual | Y | Y | CDC BRFSS | CDC BRFSS | NIH Tobacco Studies | 2nd Reference Search String: National Academies analysis of Smoking
- Healthy Diet Prevalence - adults meeting nutrition guidelines per 100 adults | i | 0-100 | Annual | Y | Y | CDC Nutrition Surveillance | CDC Nutrition | USDA Dietary Guidelines | 2nd Reference Search String: National Academies analysis of Healthy Diet Prevalence



- Overeating Risk - adults reporting frequent overeating per 100 adults | d | 0-100 | Annual | Y | Y | CDC BRFSS | CDC BRFSS | NIH Nutrition Studies | 2nd Reference Search String: National Academies analysis of Overeating Risk
- Exercise (Adults) - adults exercising regularly per 100 adults | i | 0-100 | Annual | Y | Y | CDC Physical Activity | CDC Physical Activity | NIH Exercise Studies | 2nd Reference Search String: National Academies analysis of Exercise
- Substance Abuse (Adults) - adults using illegal drugs per 100 adults | d | 0-100 | Annual | Y | Y | SAMHSA NSDUH | SAMHSA NSDUH | NIH Drug Abuse | 2nd Reference Search String: National Academies analysis of Substance Abuse
- Excessive Alcohol Use - adults reporting binge/heavy drinking per 100 adults | d | 0-100 | Annual | Y | Y | CDC Alcohol Data | CDC Alcohol | NIH Alcohol Studies | 2nd Reference Search String: National Academies analysis of Excessive Alcohol Use
- Healthy Weight - adults within recommended BMI range per 100 adults | i | 0-100 | Annual | Y | Y | CDC Obesity Data | CDC Obesity | NIH Obesity Studies | 2nd Reference Search String: National Academies analysis of Healthy Weight
- Seatbelt Use (Adults) - adults regularly using seatbelts per 100 adults | i | 0-100 | Annual | Y | Y | NHTSA Safety Data | NHTSA Safety | CDC Injury Prevention | 2nd Reference Search String: National Academies analysis of Seatbelt Use

#### Linked Burdens (+)

- Toxic Burden Index - composite score from toxic exposure profile | d | 0-100 | Annual | Y | Y | CDC & EPA | CDC Exposure Report | EPA EJSscreen | 2nd Reference Search String: National Academies analysis of Toxic Burden Index
- Health Care Access Index - composite score from health care profile | i | 0-100 | Annual | Y | Y | HRSA & CMS | HRSA Health Data | CMS Health Access | 2nd Reference Search String: National Academies analysis of Health Care Access Index
- Education Attainment Index - adults with high school or higher per 100 adults | i | 0-100 | Annual | Y | Y | US Census | US Census Education | NCES Education Data | 2nd Reference Search String: National Academies analysis of Education Attainment Index
- Opportunity Index - composite score of economic and social mobility | i | 0-100 | Annual | Y | Y | Opportunity Insights | Opportunity Insights | Brookings Mobility Studies | 2nd Reference Search String: National Academies analysis of Opportunity Index

## K-12 Education

◆ Effort Ideal: Every Person Shall Receive a Safe, Quality High School or Equivalent Education, Graduate in at Least Fair Physical Condition, and Make an Acceptable Transition After High School

### Academic Achievement

- High School Graduation - students graduating on time per 100 students | i | 0-100 | Annual | Y | Y | NCES | NCES Graduation Data | EdWeek Graduation Studies | 2nd Reference Search String: National Academies analysis of High School Graduation
- Standardized Test Scores (NAEP) - average proficiency scores in math, reading, science | i | 0-100 | Annual | Y | Y | NAEP | NAEP Data | Brookings Education Studies | 2nd Reference Search String: National Academies analysis of Standardized Test Scores (NAEP)
- Third Grade Reading Proficiency - students meeting standards per 100 third graders | i | 0-100 | Annual | Y | Y | NAEP | NAEP Reading | Annie E. Casey Foundation | 2nd Reference Search String: National Academies analysis of Third Grade Reading Proficiency
- Student Growth Percentile (SGP) - percentile rank of academic progress year-over-year | i | 0-100 | Annual | Y | Y | State Longitudinal Data | State Longitudinal Systems | Education Trust | 2nd Reference Search String: National Academies analysis of Student Growth Percentile (SGP)
- Grade-Level Proficiency - students meeting grade-level standards in math and reading per 100 students | i | 0-100 | Annual | Y | Y | State Assessments | State Assessment Data | EdWeek Assessment Studies | 2nd Reference Search String: National Academies analysis of Grade-Level Proficiency
- Advanced Course Enrollment - students enrolled in AP, IB, or dual credit per 100 students | i | 0-100 | Annual | Y | Y | NCES | NCES Advanced Courses | College Board AP Data | 2nd Reference Search String: National Academies analysis of Advanced Course Enrollment
- Course Failure - students failing one or more core subjects per 100 students | d | 0-100 | Annual | Y | Y | State Reports | State Education Reports | EdWeek Failure Studies | 2nd Reference Search String: National Academies analysis of Course Failure
- ACT/SAT Participation - eligible students tested per 100 students | i | 0-100 | Annual | Y | Y | NCES | NCES ACT/SAT | College Board | 2nd Reference Search String: National Academies analysis of ACT/SAT Participation

- ACT/SAT Performance - students meeting college readiness benchmarks per 100 tested | i | 0-100 | Annual | Y | Y | ACT/SAT | ACT Data | College Board SAT Data | 2nd Reference Search String: National Academies analysis of ACT/SAT Performance
- Career and Technical Education (CTE) Participation - students enrolled in CTE pathways per 100 students | i | 0-100 | Annual | Y | Y | Perkins V | Perkins V Data | Advance CTE | 2nd Reference Search String: National Academies analysis of Career and Technical Education (CTE) Participation
- Industry Certification Attainment - students earning recognized credentials per 100 students | i | 0-100 | Annual | Y | Y | State CTE Reports | State CTE Data | Advance CTE | 2nd Reference Search String: National Academies analysis of Industry Certification Attainment
- FAFSA Completion - seniors completing FAFSA forms per 100 seniors | i | 0-100 | Annual | Y | Y | Federal Student Aid | Federal Student Aid | NCAN FAFSA Tracker | 2nd Reference Search String: National Academies analysis of FAFSA Completion
- Project-Based Learning Participation - students engaged in interdisciplinary projects per 100 students | i | 0-100 | Annual | Y | Y | State Innovation Reports | State Innovation Data | Edutopia PBL | 2nd Reference Search String: National Academies analysis of Project-Based Learning Participation
- Critical Thinking Assessment - students demonstrating proficiency per 100 students | i | 0-100 | Annual | Y | Y | Local Rubric-Based Assessments | Local Assessment Data | Education Trust | 2nd Reference Search String: National Academies analysis of Critical Thinking Assessment
- Digital Literacy Proficiency - students meeting standards in technology use per 100 students | i | 0-100 | Annual | Y | Y | State Tech Assessments | State Tech Data | ISTE Digital Literacy | 2nd Reference Search String: National Academies analysis of Digital Literacy Proficiency
- Civic Knowledge and Engagement - students demonstrating understanding of civics per 100 students | i | 0-100 | Annual | Y | Y | NAEP Civics | NAEP Civics | CivXNow | 2nd Reference Search String: National Academies analysis of Civic Knowledge and Engagement
- Achievement Gap Index - difference in proficiency rates between subgroups | g | 0-100 | Annual | Y | Y | State Equity Reports | State Equity Data | Education Trust | 2nd Reference Search String: National Academies analysis of Achievement Gap Index

- Access to Rigorous Curriculum - underserved students in advanced courses per 100 underserved students | i | 0-100 | Annual | Y | Y | CRDC | CRDC Data | Education Trust | 2nd Reference Search String: National Academies analysis of Access to Rigorous Curriculum
- On-Track to Graduate - students meeting grade-level benchmarks per 100 students | i | 0-100 | Annual | Y | Y | State Longitudinal Data | State Longitudinal Systems | EdWeek Graduation Studies | 2nd Reference Search String: National Academies analysis of On-Track to Graduate

### School Resources and Staffing

- Student-to-Teacher Ratio - students per teacher | g | 0-30 | Annual | Y | Y | NCES | NCES Teacher Data | EdWeek Staffing Studies | 2nd Reference Search String: National Academies analysis of Student-to-Teacher Ratio
- Teacher Retention - teachers retained year-over-year per 100 teachers | i | 0-100 | Annual | Y | Y | NCES | NCES Teacher Retention | Learning Policy Institute | 2nd Reference Search String: National Academies analysis of Teacher Retention
- Access to School Counselors - counselors per 1,000 students | i | 0-1,000 | Annual | Y | Y | ASCA | ASCA Data | NCES Staffing | 2nd Reference Search String: National Academies analysis of Access to School Counselors
- Qualified Teacher Shortage - teaching positions unfilled or filled by non-certified staff per 100 positions | d | 0-100 | Annual | Y | Y | NCES / State Departments of Education | NCES Teacher Shortage | EdWeek Teacher Shortage | 2nd Reference Search String: National Academies analysis of Qualified Teacher Shortage

### Equity and Inclusion

- Educational Funding Equity - districts with funding parity per 100 districts | i | 0-100 | Annual | Y | Y | EdWeek | EdWeek Funding Equity | NCES Finance Data | 2nd Reference Search String: National Academies analysis of Educational Funding Equity
- Free/Reduced Lunch Eligibility (K-12 Education) - students eligible per 100 students | d | 0-100 | Annual | Y | Y | NCES | NCES Lunch Data | USDA School Meals | 2nd Reference Search String: National Academies analysis of Free/Reduced Lunch Eligibility
- Early Childhood Participation - eligible children enrolled per 100 children | i | 0-100 | Annual | Y | Y | Head Start | Head Start Data | NCES Early Childhood | 2nd Reference Search String: National Academies analysis of Early Childhood Participation

- English Language Learner Enrollment - ELL students per 100 students | g | 0-100 | Annual | Y | Y | NCES | NCES ELL Data | Migration Policy Institute Education | 2nd Reference Search String: National Academies analysis of English Language Learner Enrollment

#### Special Needs and IDEA Outcomes

- IDEA Enrollment - students served under IDEA per 100 students | i | 0-100 | Annual | Y | Y | NCES | NCES IDEA Data | OSEP IDEA | 2nd Reference Search String: National Academies analysis of IDEA Enrollment
- Child Find Effectiveness - children identified and evaluated per 100 eligible children | i | 0-100 | Annual | Y | Y | IDEA Indicator 11 | OSEP Indicators | State Special Education Reports | 2nd Reference Search String: National Academies analysis of Child Find Effectiveness
- Preschool Access for Children with Disabilities - children in inclusive programs per 100 children with disabilities | i | 0-100 | Annual | Y | Y | IDEA Indicator 6 | OSEP Indicators | NCES Early Childhood | 2nd Reference Search String: National Academies analysis of Preschool Access for Children with Disabilities
- Graduation of Students with IEPs - students graduating with diploma per 100 IEP students | i | 0-100 | Annual | Y | Y | IDEA Indicator 1 | OSEP Indicators | NCES Graduation Data | 2nd Reference Search String: National Academies analysis of Graduation of Students with IEPs
- Dropouts of Students with IEPs - students leaving school before completion per 100 IEP students | d | 0-100 | Annual | Y | Y | IDEA Indicator 2 | OSEP Indicators | NCES Dropout Data | 2nd Reference Search String: National Academies analysis of Dropouts of Students with IEPs
- Assessment Participation and Proficiency - IEP students tested and proficient per 100 IEP students | i | 0-100 | Annual | Y | Y | IDEA Indicator 3 | OSEP Indicators | NCES Assessment Data | 2nd Reference Search String: National Academies analysis of Assessment Participation and Proficiency
- Post-School Outcomes - IEP students employed, in education, or training per 100 IEP students | i | 0-100 | Annual | Y | Y | IDEA Indicator 14 | OSEP Indicators | NCES Longitudinal Data | 2nd Reference Search String: National Academies analysis of Post-School Outcomes

- Education Environment Placement - IEP students in general education ≥80% of day per 100 IEP students | i | 0-100 | Annual | Y | Y | IDEA Indicator 5 | OSEP Indicators | NCES Inclusion Data | 2nd Reference Search String: National Academies analysis of Education Environment Placement
- Access to Specialized Supports - IEP students receiving speech, OT, PT, behavioral services per 100 IEP students | i | 0-100 | Annual | Y | Y | State Reports | State Special Education Data | OSEP IDEA | 2nd Reference Search String: National Academies analysis of Access to Specialized Supports
- Parent Involvement - parents reporting meaningful IEP participation per 100 parents | i | 0-100 | Annual | Y | Y | IDEA Indicator 8 | OSEP Indicators | NCES Parent Engagement | 2nd Reference Search String: National Academies analysis of Parent Involvement
- IEP Compliance - IEPs implemented as written per 100 IEPs | i | 0-100 | Annual | Y | Y | State Monitoring | State Compliance Data | OSEP IDEA | 2nd Reference Search String: National Academies analysis of IEP Compliance

#### Facilities and Learning Environment

- Facility Quality Rating (K-12 Education) - schools rated 4 or 5 per 100 schools | i | 0-100 | Annual | Y | Y | State Reports | State Facility Data | EdWeek Facilities | 2nd Reference Search String: National Academies analysis of Facility Quality Rating
- Class Size - average students per classroom | g | 0-30 | Annual | Y | Y | NCES | NCES Class Size | EdWeek Class Size Studies | 2nd Reference Search String: National Academies analysis of Class Size
- Equipment Adequacy (Classrooms) - classrooms with sufficient tools per 100 classrooms | i | 0-100 | Annual | Y | Y | State Reports | State Equipment Data | Education Trust | 2nd Reference Search String: National Academies analysis of Equipment Adequacy
- School Supplies Availability - students with needed materials per 100 students | i | 0-100 | Annual | Y | Y | State Surveys | State Supply Data | EdWeek Supplies | 2nd Reference Search String: National Academies analysis of School Supplies Availability
- Learning Obstacle Support - schools equipped for sensory, mobility, or cognitive needs per 100 schools | i | 0-100 | Annual | Y | Y | IDEA | OSEP IDEA | NCES Disability Data | 2nd Reference Search String: National Academies analysis of Learning Obstacle Support
- School Accidents - incidents per 1,000 students | d | 0-1,000 | Annual | Y | Y | State Safety Reports | State Safety Data | CDC School Safety | 2nd Reference Search String: National Academies analysis of School Accidents

## Parent Engagement

- Daily Reading to Children ( $\leq$  age 8) - parents reporting daily reading per 100 parents | i | 0-100 | Annual | Y | Y | NCES | NCES Early Childhood | Annie E. Casey Foundation | 2nd Reference Search String: National Academies analysis of Daily Reading to Children ( $\leq$  age 8)
- Homework Oversight - parents ensuring daily homework completion per 100 parents | i | 0-100 | Annual | Y | Y | State Surveys | State Parent Surveys | Education Trust | 2nd Reference Search String: National Academies analysis of Homework Oversight
- Parent-Teacher Conference Attendance - parents attending conferences per 100 parents | i | 0-100 | Annual | Y | Y | CRDC | CRDC Data | NCES Parent Engagement | 2nd Reference Search String: National Academies analysis of Parent-Teacher Conference Attendance
- School Activity Participation - parents attending school events per 100 parents | i | 0-100 | Annual | Y | Y | State Surveys | State Parent Surveys | EdWeek Parent Engagement | 2nd Reference Search String: National Academies analysis of School Activity Participation
- Volunteer Participation - parents volunteering in past year per 100 parents | i | 0-100 | Annual | Y | Y | State Surveys | State Volunteer Data | Education Trust | 2nd Reference Search String: National Academies analysis of Volunteer Participation

## Teacher Preparation and Conduct

- Continuing Education Hours - average annual hours per teacher | i | 0-100+ | Annual | Y | Y | State Boards | State Teacher Development | Learning Policy Institute | 2nd Reference Search String: National Academies analysis of Continuing Education Hours
- Specialty Certification - teachers with endorsements per 100 teachers | i | 0-100 | Annual | Y | Y | State Data | State Certification Data | EdWeek Teacher Certification | 2nd Reference Search String: National Academies analysis of Specialty Certification
- Advanced Degrees (Teachers) - teachers with master's or higher per 100 teachers | i | 0-100 | Annual | Y | Y | NCES | NCES Teacher Degrees | Education Trust | 2nd Reference Search String: National Academies analysis of Advanced Degrees
- Disciplinary Actions (Teachers)- teachers disciplined per 100 teachers | d | 0-100 | Annual | Y | Y | State Boards | State Teacher Discipline Data | EdWeek Teacher Conduct | 2nd Reference Search String: National Academies analysis of Disciplinary Actions

## Student Conduct and Risk

- Attendance - students attending regularly per 100 students | i | 0-100 | Annual | Y | Y | CRDC | CRDC Attendance | NCES Attendance Data | 2nd Reference Search String: National Academies analysis of Attendance
- Sexual Activity - students reporting sexual activity per 100 students | g | 0-100 | Annual | Y | Y | YRBS | CDC YRBS | Guttmacher Institute | 2nd Reference Search String: National Academies analysis of Sexual Activity
- Teen Motherhood - births per 1,000 females age 15-19 | d | 0-1,000 | Annual | Y | Y | CDC | CDC Teen Births | HHS Teen Pregnancy Prevention | 2nd Reference Search String: National Academies analysis of Teen Motherhood
- Disciplinary Actions (Students) - students disciplined per 100 students | d | 0-100 | Annual | Y | Y | CRDC | CRDC Discipline | EdWeek Discipline Studies | 2nd Reference Search String: National Academies analysis of Disciplinary Actions
- Suspension/Expulsion (Substance/Violence) - students suspended or expelled per 100 students | d | 0-100 | Annual | Y | Y | CRDC | CRDC Discipline | NCES Discipline Data | 2nd Reference Search String: National Academies analysis of Suspension/Expulsion (Substance/Violence)
- Juvenile Crime - arrests per 1,000 youth | d | 0-1,000 | Annual | Y | Y | OJJDP | OJJDP Juvenile Crime | CDC Youth Violence | 2nd Reference Search String: National Academies analysis of Juvenile Crime

## Physical Conditioning and Lifestyle

- BMI Distribution - students in healthy BMI range per 100 students | i | 0-100 | Annual | Y | Y | CDC | CDC BMI Data | NIH Obesity Studies | 2nd Reference Search String: National Academies analysis of BMI Distribution
- Cardiovascular Fitness - students meeting cardiovascular fitness standards per 100 students | i | 0-100 | Annual | Y | Y | State PE | State PE Data | CDC Youth Fitness | 2nd Reference Search String: National Academies analysis of Cardiovascular Fitness
- Muscular Fitness - students meeting muscular fitness standards per 100 students | i | 0-100 | Annual | Y | Y | State PE | State PE Data | CDC Youth Fitness | 2nd Reference Search String: National Academies analysis of Muscular Fitness
- Flexibility - students meeting flexibility standards per 100 students | i | 0-100 | Annual | Y | Y | State PE | State PE Data | CDC Youth Fitness | 2nd Reference Search String: National Academies analysis of Flexibility



- Healthy Diet - students reporting good nutrition per 100 students | i | 0-100 | Annual | Y | Y | YRBS | CDC YRBS | USDA Nutrition | 2nd Reference Search String: National Academies analysis of Healthy Diet
- Exercise (Students) - students exercising regularly per 100 students | i | 0-100 | Annual | Y | Y | CDC | CDC Youth Exercise | NIH Physical Activity | 2nd Reference Search String: National Academies analysis of Exercise
- Smoking (Students) - students reporting tobacco use per 100 students | d | 0-100 | Annual | Y | Y | YRBS | CDC YRBS | Truth Initiative | 2nd Reference Search String: National Academies analysis of Smoking
- Substance Abuse (Students) - students reporting drug/alcohol use per 100 students | d | 0-100 | Annual | Y | Y | YRBS | CDC YRBS | SAMHSA Youth Data | 2nd Reference Search String: National Academies analysis of Substance Abuse
- Seatbelt Use (K-12 Education) - students reporting regular seatbelt use per 100 students | i | 0-100 | Annual | Y | Y | YRBS | CDC YRBS | NHTSA Safety | 2nd Reference Search String: National Academies analysis of Seatbelt Use

#### Retention and Completion

- 9th Grade Retention - students completing high school after entering 9th grade per 100 students | i | 0-100 | Annual | Y | Y | NCES | NCES Retention Data | EdWeek Graduation Studies | 2nd Reference Search String: National Academies analysis of 9th Grade Retention
- Dropouts - students leaving school before graduation per 100 students | d | 0-100 | Annual | Y | Y | NCES | NCES Dropout Data | Education Trust | 2nd Reference Search String: National Academies analysis of Dropouts
- Mother's Education Level - mothers with less than high school education per 100 mothers | d | 0-100 | Annual | Y | Y | Census | US Census Education Data | Annie E. Casey Foundation | 2nd Reference Search String: National Academies analysis of Mother's Education Level
- Mother's Education < 9th Grade - mothers with less than 9th grade education per 100 mothers | d | 0-100 | Annual | Y | Y | Census | US Census Education Data | NCES Family Background Studies | 2nd Reference Search String: National Academies analysis of Mother's Education < 9th Grade

## Transition and Remediation

- Successful Transition After High School - graduates in college, work, or training per 100 graduates | i | 0-100 | Annual | Y | Y | State Longitudinal Systems | State Longitudinal Data | Education Trust | 2nd Reference Search String: National Academies analysis of Successful Transition After High School
- Adults That Completed High School or Higher - adults age 25+ with high school diploma or higher per 100 adults | i | 0-100 | Annual | Y | Y | Census | US Census Education Data | NCES Adult Education | 2nd Reference Search String: National Academies analysis of Completed High School or Higher
- Adult Illiteracy - adults lacking basic literacy per 100 adults | d | 0-100 | Annual | Y | Y | PIAAC | OECD PIAAC | NCES Literacy Data | 2nd Reference Search String: National Academies analysis of Adult Illiteracy
- Adult ESL Enrollment - adults enrolled in English learning per 100 adults | i | 0-100 | Annual | Y | Y | State Adult Ed | State Adult Education Data | US Department of Education | 2nd Reference Search String: National Academies analysis of Adult ESL Enrollment

 [Back to Index](#)

## Continuing Education

◆ Effort Ideal: America/Kentucky Becomes a Learning Nation/State

### Adult Learning and Literacy

- Adult Literacy - adults with basic reading proficiency per 100 adults | i | 0-100 | Annual | Y | Y | PIAAC Literacy Data | OECD PIAAC | NCES Literacy | 2nd Reference Search String: National Academies analysis of Adult Literacy
- Numeracy Proficiency - adults with basic math skills per 100 adults | i | 0-100 | Annual | Y | Y | PIAAC Numeracy Data | OECD PIAAC | NCES Numeracy | 2nd Reference Search String: National Academies analysis of Numeracy Proficiency
- High School Equivalency Completion - adults earning GED or equivalent per 100 adults | i | 0-100 | Annual | Y | Y | NCES Adult Education | NCES Adult Ed | GED Testing Service | 2nd Reference Search String: National Academies analysis of High School Equivalency Completion
- Illiterate Target Population Engaged - illiterate adults in learning programs per 100 illiterate adults | i | 0-100 | Annual | Y | Y | KY Adult Ed | KY Adult Education | NCES Adult Literacy | 2nd Reference Search String: National Academies analysis of Illiterate Target Population Engaged
- Percent of Population Illiterate - adults lacking basic literacy per 100 adults | d | 0-100 | Annual | Y | Y | PIAAC | OECD PIAAC | NCES Literacy | 2nd Reference Search String: National Academies analysis of Percent of Population Illiterate

### Secondary and Post-Secondary Attainment

- High School Graduates - adults with diploma per 100 adults | i | 0-100 | Annual | Y | Y | Census | US Census Education | NCES Adult Education | 2nd Reference Search String: National Academies analysis of High School Graduates
- High School Graduates Entering College - graduates transitioning to post-secondary per 100 graduates | i | 0-100 | Annual | Y | Y | State Longitudinal Data | State Longitudinal Systems | Education Trust | 2nd Reference Search String: National Academies analysis of High School Graduates Entering College
- Associate Degree or Higher - adults with associate degree or above per 100 adults | i | 0-100 | Annual | Y | Y | Census | US Census Education | NCES Degrees | 2nd Reference Search String: National Academies analysis of Associate Degree or Higher

- Bachelor Degree or Higher - adults with bachelor's or above per 100 adults | i | 0-100 | Annual | Y | Y | Census | US Census Education | NCES Degrees | 2nd Reference Search String: National Academies analysis of Bachelor Degree or Higher
- Advanced Degrees (Adults) - adults with master's or doctoral degrees per 100 adults | i | 0-100 | Annual | Y | Y | Census | US Census Education | NCES Degrees | 2nd Reference Search String: National Academies analysis of Advanced Degrees
- Participating in Post-Secondary Education - adults currently enrolled per 100 adults | i | 0-100 | Annual | Y | Y | IPEDS | IPEDS Data | NCES Enrollment | 2nd Reference Search String: National Academies analysis of Participating in Post-Secondary Education
- Non-Traditional Students (Age ≥ 25) - adult learners age 25+ per 100 students | i | 0-100 | Annual | Y | Y | NCES | NCES Adult Learners | Education Trust | 2nd Reference Search String: National Academies analysis of Non-Traditional Students (Age ≥ 25)

#### Enrollment and Participation

- Enrollment in Continuing Education Programs - adults enrolled per 100 adults | i | 0-100 | Annual | Y | Y | NCES | NCES Adult Ed | EdWeek Adult Learning | 2nd Reference Search String: National Academies analysis of Enrollment in Continuing Education Programs
- Participation in Workforce Training - adults in job-related training per 100 adults | i | 0-100 | Annual | Y | Y | DOL | DOL Training Data | Workforce GPS | 2nd Reference Search String: National Academies analysis of Participation in Workforce Training
- Community College Enrollment - adults attending community college per 100 adults annually | i | 0-100 | Annual | Y | Y | IPEDS | IPEDS Data | NCES Community College | 2nd Reference Search String: National Academies analysis of Community College Enrollment
- Participated in Training - adults reporting recent training per 100 adults in last year | i | 0-100 | Annual | Y | Y | KY Workforce Reports | KY Workforce | NCES Adult Training | 2nd Reference Search String: National Academies analysis of Participated in Training
- Received Environmental Education - adults exposed to sustainability training per 100 adults last year | i | 0-100 | Annual | Y | Y | KY Environmental Ed | KY Environmental Education | EPA Education | 2nd Reference Search String: National Academies analysis of Received Environmental Education

## Access and Equity

- Access to Vocational Training Centers - centers per 100,000 population | i | 0-100,000 | Annual | Y | Y | DOL CareerOneStop | CareerOneStop | NCES Vocational Ed | 2nd Reference Search String: National Academies analysis of Access to Vocational Training Centers
- Online Learning Participation - adults in online courses per 100 adults | i | 0-100 | Annual | Y | Y | NCES Distance Ed | NCES Distance Ed | ED Distance Learning | 2nd Reference Search String: National Academies analysis of Online Learning Participation
- Adult ESL Program Enrollment - non-native speakers enrolled per 100 adults | i | 0-100 | Annual | Y | Y | NCES ESL | NCES ESL Data | Migration Policy Institute | 2nd Reference Search String: National Academies analysis of Adult ESL Program Enrollment
- With County Library Access - adults with public library access per 100 adults | i | 0-100 | Annual | Y | Y | KY Library Reports | KY Libraries | ALA Library Data | 2nd Reference Search String: National Academies analysis of With County Library Access
- Uses Library Services - adults reporting regular library use per 100 adults | i | 0-100 | Annual | Y | Y | KY Library Reports | KY Libraries | NCES Library Data | 2nd Reference Search String: National Academies analysis of Uses Library Services
- Have or Use PC at Home, Work, or School - adults with computer access per 100 adults | i | 0-100 | Annual | Y | Y | Census | US Census Tech Access | Pew Tech Data | 2nd Reference Search String: National Academies analysis of Have or Use PC at Home, Work, or School
- Uses Internet - adults online per 100 adults | i | 0-100 | Annual | Y | Y | Census | US Census Internet | Pew Internet | 2nd Reference Search String: National Academies analysis of Uses Internet
- Watches KET - adults viewing Kentucky Educational Television per 100 adults | i | 0-100 | Annual | Y | Y | KET Viewer Data | KET | PBS Education | 2nd Reference Search String: National Academies analysis of Watches KET
- Watches Other Educational Programming - adults viewing PBS or similar per 100 adults | i | 0-100 | Annual | Y | Y | Nielsen | Nielsen Ratings | PBS Education | 2nd Reference Search String: National Academies analysis of Watches Other Educational Programming

## Outcomes and Advancement

- Credential Attainment - adults earning certificates or degrees per 100 adults | i | 0-100 | Annual | Y | Y | NCES | NCES Credentials | Education Trust | 2nd Reference Search String: National Academies analysis of Credential Attainment
- Employment After Training - adults employed post-program per 100 adults | i | 0-100 | Annual | Y | Y | DOL | DOL Employment | Workforce GPS | 2nd Reference Search String: National Academies analysis of Employment After Training
- Earnings Growth After Education - average increase in annual earnings per individual after education | i | -50000-100000 | Annual | Y | Y | Census | US Census Income | NCES Adult Outcomes | 2nd Reference Search String: National Academies analysis of Earnings Growth After Education

## Healthy Lifestyle and Learning Habits

- With Good Diet - adults reporting healthy eating per 100 adults | i | 0-100 | Annual | Y | Y | CDC | CDC Nutrition | USDA Nutrition | 2nd Reference Search String: National Academies analysis of With Good Diet
- Exercises Regularly - adults reporting regular physical activity per 100 adults | i | 0-100 | Annual | Y | Y | CDC | CDC Physical Activity | NIH Exercise | 2nd Reference Search String: National Academies analysis of Exercises Regularly
- Don't Smoke - adults who do not smoke per 100 adults | i | 0-100 | Annual | Y | Y | CDC | CDC Tobacco Data | Truth Initiative | 2nd Reference Search String: National Academies analysis of Don't Smoke
- Don't Abuse Substances - adults reporting no drug/alcohol abuse per 100 adults | i | 0-100 | Annual | Y | Y | SAMHSA | SAMHSA Data | CDC Substance Use | 2nd Reference Search String: National Academies analysis of Don't Abuse Substances
- Use Seatbelts - adults reporting regular seatbelt use per 100 adults | i | 0-100 | Annual | Y | Y | NHTSA | NHTSA Safety | CDC Injury Prevention | 2nd Reference Search String: National Academies analysis of Use Seatbelts
- Practices Preventive Medical/Dental Care - adults receiving regular checkups per 100 adults | i | 0-100 | Annual | Y | Y | CDC | CDC Preventive Care | NIH Preventive Health | 2nd Reference Search String: National Academies analysis of Practices Preventive Medical/Dental Care

## Learning Skills Exercise

- Follows Current Affairs - adults regularly consuming news per 100 adults | i | 0-100 | Annual | Y | Y | Pew Research | Pew News Consumption | Gallup Civic Data | 2nd Reference Search String: National Academies analysis of Follows Current Affairs
- Reads Regularly - adults reading books, articles, or newspapers per 100 adults | i | 0-100 | Annual | Y | Y | Census | US Census Reading | NCES Literacy | 2nd Reference Search String: National Academies analysis of Reads Regularly
- Does Arithmetic When Required - adults using math in daily life per 100 adults | i | 0-100 | Annual | Y | Y | PIAAC | OECD PIAAC Numeracy | NCES Numeracy | 2nd Reference Search String: National Academies analysis of Does Arithmetic When Required
- Converses Regularly - adults engaging in meaningful dialogue per 100 adults | i | 0-100 | Annual | Y | Y | State Surveys | State Adult Surveys | Education Trust | 2nd Reference Search String: National Academies analysis of Converses Regularly

## Research and Development

- R&D Expenditures - R&D dollars per continuing education dollar | i | 0-10 | Annual | Y | Y | NSF | NSF R&D Data | OECD R&D | 2nd Reference Search String: National Academies analysis of R&D Expenditures
- Library/Archive Facilities Up-to-Standard - facilities meeting quality benchmarks per 100 facilities | i | 0-100 | Annual | Y | Y | KY Library Reports | KY Libraries | ALA Library Data | 2nd Reference Search String: National Academies analysis of Library/Archive Facilities Up-to-Standard
- Library/Archive Contents Up-to-Date - collections current per 100 facilities | i | 0-100 | Annual | Y | Y | KY Library Reports | KY Libraries | NCES Library Data | 2nd Reference Search String: National Academies analysis of Library/Archive Contents Up-to-Date
- Library/Archive Expenditures vs Need - budgets met per 100 facilities | i | 0-100 | Annual | Y | Y | KY Library Reports | KY Libraries | ALA Library Data | 2nd Reference Search String: National Academies analysis of Library/Archive Expenditures vs Need

## Facilities and Learning Environment

- Percent of Facilities with a 4 or 5 Rating - adult learning centers rated 4 or 5 per 100 centers | i | 0-100 | Annual | Y | Y | State Reports | State Facility Data | EdWeek Facilities | 2nd Reference Search String: National Academies analysis of Percent of Facilities with a 4 or 5 Rating

- Equipment Adequacy (Facilities) - facilities with sufficient tools per 100 facilities | i | 0-100 | Annual | Y | Y | State Reports | State Equipment Data | Education Trust | 2nd Reference Search String: National Academies analysis of Equipment Adequacy
- Learning Obstacle Equipped - facilities equipped for sensory, mobility, or cognitive needs per 100 facilities | i | 0-100 | Annual | Y | Y | State Reports | State Accessibility Data | ADA National Network | 2nd Reference Search String: National Academies analysis of Learning Obstacle Equipped
- Accidents (Continuing Education) - incidents per 1,000 learners | d | 0-1,000 | Annual | Y | Y | State Safety Reports | State Safety Data | CDC Injury Prevention | 2nd Reference Search String: National Academies analysis of Accidents

[←](#) Back to Index



## Assimilation

◆ Effort Ideal: Full and Equitable Integration of Immigrants into Civic, Economic, and Social Life

### Cultural Integration

- English Proficiency Among Immigrants - immigrants speaking English “well” or better per 100 immigrants | i | 0-100 | Annual | Y | Y | Census Language Data | US Census Language | Migration Policy Institute | 2nd Reference Search String: National Academies analysis of English Proficiency Among Immigrants
- Participation in Cultural Events - immigrants attending community events per 100 immigrants | i | 0-100 | Annual | Y | Y | AmeriCorps Civic Engagement | AmeriCorps Civic Data | Pew Civic Life | 2nd Reference Search String: National Academies analysis of Participation in Cultural Events
- Intercultural Friendships - immigrants reporting diverse social networks per 100 immigrants | i | 0-100 | Annual | Y | Y | Pew Social Trends | Pew Social Trends | Gallup Social Data | 2nd Reference Search String: National Academies analysis of Intercultural Friendships

### Civic and Social Inclusion

- Naturalization - eligible immigrants becoming citizens per 100 eligible immigrants | i | 0-100 | Annual | Y | Y | USCIS | USCIS Naturalization | Migration Policy Institute | 2nd Reference Search String: National Academies analysis of Naturalization
- Voter Registration Among Naturalized Citizens - naturalized citizens registered per 100 naturalized citizens | i | 0-100 | Biennial | Y | Y | Census Voting Data | US Census Voting | Pew Voting Studies | 2nd Reference Search String: National Academies analysis of Voter Registration Among Naturalized Citizens
- Community Participation - immigrants involved in civic groups per 100 immigrants | i | 0-100 | Annual | Y | Y | AmeriCorps Civic Engagement | AmeriCorps Civic Data | Gallup Civic Engagement | 2nd Reference Search String: National Academies analysis of Community Participation
- State Immigration Policy Score - composite rating of integration, enforcement, and benefits | g | 0-100 | Annual | Y | Y | Urban Institute | Urban Institute Immigration | MPI Policy Data | 2nd Reference Search String: National Academies analysis of State Immigration Policy Score

- Civic Identity and Belonging Index - immigrants reporting strong sense of belonging per 100 immigrants | i | 0-100 | Annual | Y | Y | Gallup & Pew Surveys | Gallup Belonging | Pew Civic Life | 2nd Reference Search String: National Academies analysis of Civic Identity and Belonging Index



#### Education and Language Access

- Enrollment in ESL Programs - non-native speakers enrolled per 100 immigrants | i | 0-100 | Annual | Y | Y | NCES ESL Data | NCES ESL | Migration Policy Institute | 2nd Reference Search String: National Academies analysis of Enrollment in ESL Programs
- School Enrollment of Immigrant Children - immigrant children enrolled per 100 children | i | 0-100 | Annual | Y | Y | NCES Enrollment Data | NCES Enrollment | EdWeek Immigrant Education | 2nd Reference Search String: National Academies analysis of School Enrollment of Immigrant Children
- Access to Translation Services in Public Agencies - agencies offering services per 100 agencies | i | 0-100 | Annual | Y | Y | DOJ LEP Compliance | DOJ LEP | Urban Institute Language Access | 2nd Reference Search String: National Academies analysis of Access to Translation Services in Public Agencies
- Workforce Credential Attainment - immigrants earning certifications or degrees per 100 immigrants | i | 0-100 | Annual | Y | Y | DOL & NCES | DOL Workforce Data | NCES Credentials | 2nd Reference Search String: National Academies analysis of Workforce Credential Attainment



#### Economic Integration

- Employment Among Immigrants - immigrants employed per 100 immigrants | i | 0-100 | Annual | Y | Y | BLS Foreign-Born Workers | BLS Foreign-Born Data | Migration Policy Institute | 2nd Reference Search String: National Academies analysis of Employment Among Immigrants
- Income Growth Among Immigrants - average annual earnings change per immigrant | i | -50000-100000 | Annual | Y | Y | Census Income Data | US Census Income | Urban Institute Economic Data | 2nd Reference Search String: National Academies analysis of Income Growth Among Immigrants
- Business Ownership by Immigrants - small businesses owned by immigrants per 100 businesses | i | 0-100 | Annual | Y | Y | SBA Immigrant Entrepreneurs | SBA Data | American Immigration Council | 2nd Reference Search String: National Academies analysis of Business Ownership by Immigrants

- Immigrant Tax Contribution Estimate - average state/local/federal taxes paid per immigrant | i | 0-100000 | Annual | Y | Y | American Immigration Council | Immigration Council Data | Urban Institute Fiscal Studies | 2nd Reference Search String: National Academies analysis of Immigrant Tax Contribution Estimate

[← Back to Index](#)

## Roads and Bridges

◆ Effort Ideal: All Roads Shall Be Well Maintained, Safe, and Have an Acceptable Ride Quality and All Bridges Shall Be Functionally Adequate and Structurally Sound

### Interstates

- Usable / Restricted Miles (Interstates) - total miles open vs. restricted per 1,000 road miles | g | 0-1000 | Annual | Y | Y | FHWA Highway Statistics | FHWA Highway Data | DOT Infrastructure Reports | 2nd Reference Search String: National Academies analysis of Usable / Restricted Miles
- Ride Quality Index (Interstates) - interstate miles rated acceptable or better per 100 miles | i | 0-100 | Annual | Y | Y | FHWA Pavement Condition | FHWA Pavement Data | TRB Pavement Studies | 2nd Reference Search String: National Academies analysis of Ride Quality Index
- Miles Needing Improvement (Interstates) - interstate miles below threshold per 100 miles | d | 0-100 | Annual | Y | Y | FHWA HPMS | FHWA HPMS | DOT Infrastructure Reports | 2nd Reference Search String: National Academies analysis of Miles Needing Improvement
- Maintenance Rating Points (MRP) (Interstates) - composite condition score | g | 0-100 | Annual | Y | Y | KYTC Maintenance | KYTC Data | FHWA Maintenance | 2nd Reference Search String: National Academies analysis of Maintenance Rating Points (MRP)
- Accidents (Interstates) - incidents per 1,000 miles | d | 0-1,000 | Annual | Y | Y | NHTSA Crash Data | NHTSA Crash Data | FARS | 2nd Reference Search String: National Academies analysis of Accidents
- Fatal Accidents (Interstates) - deaths per 1,000 miles | d | 0-1,000 | Annual | Y | Y | FARS | FARS | CDC Injury Data | 2nd Reference Search String: National Academies analysis of Fatal Accidents
- Substance-Involved Accidents (Interstates) - accidents involving alcohol/drugs per 100 accidents | d | 0-100 | Annual | Y | Y | NHTSA Impaired Driving | NHTSA Impaired Driving | CDC Substance Data | 2nd Reference Search String: National Academies analysis of Substance-Involved Accidents
- Functionally Obsolete Bridges (Interstates) - bridges not meeting design standards per 100 bridges | d | 0-100 | Annual | Y | Y | FHWA Bridge Conditions | FHWA Bridge Data | ASCE Bridge Report | 2nd Reference Search String: National Academies analysis of Functionally Obsolete Bridges

- Structurally Deficient Bridges (Interstates) - bridges with critical deterioration per 100 bridges | d | 0-100 | Annual | Y | Y | FHWA National Bridge Inventory | FHWA NBI | ASCE Bridge Report | 2nd Reference Search String: National Academies analysis of Structurally Deficient Bridges
- Bridge Load Posting (Interstates) - bridges with weight restrictions per 100 bridges | d | 0-100 | Annual | Y | Y | FHWA Bridge Posting | FHWA Bridge Posting | DOT Infrastructure Reports | 2nd Reference Search String: National Academies analysis of Bridge Load Posting
- Bridge Inspection Compliance (Interstates) - bridges inspected on schedule per 100 bridges | i | 0-100 | Annual | Y | Y | FHWA Inspection Standards | FHWA Inspection | ASCE Bridge Report | 2nd Reference Search String: National Academies analysis of Bridge Inspection Compliance



## Parkways

- Usable / Restricted Miles (Parkways) - total miles open vs. restricted per 1,000 road miles | g | 0-1000 | Annual | Y | Y | FHWA | FHWA Highway Data | DOT Infrastructure Reports | 2nd Reference Search String: National Academies analysis of Usable / Restricted Miles
- Ride Quality Index (Parkways) - parkway miles rated acceptable or better per 100 miles | i | 0-100 | Annual | Y | Y | FHWA | FHWA Pavement Data | TRB Pavement Studies | 2nd Reference Search String: National Academies analysis of Ride Quality Index
- Miles Needing Improvement (Parkways) - parkway miles below threshold per 100 miles | d | 0-100 | Annual | Y | Y | FHWA | FHWA HPMS | DOT Infrastructure Reports | 2nd Reference Search String: National Academies analysis of Miles Needing Improvement
- Maintenance Rating Points (MRP) (Parkways) - composite condition score | g | 0-100 | Annual | Y | Y | State DOT | State DOT Data | FHWA Maintenance | 2nd Reference Search String: National Academies analysis of Maintenance Rating Points (MRP)
- Accidents (Parkways) - incidents per 1,000 miles | d | 0-1,000 | Annual | Y | Y | NHTSA | NHTSA Crash Data | FARS | 2nd Reference Search String: National Academies analysis of Accidents
- Fatal Accidents (Parkways) - deaths per 1,000 miles | d | 0-1,000 | Annual | Y | Y | FARS | FARS | CDC Injury Data | 2nd Reference Search String: National Academies analysis of Fatal Accidents

- Substance-Involved Accidents (Parkways) - accidents involving alcohol/drugs per 100 accidents | d | 0-100 | Annual | Y | Y | NHTSA | NHTSA Impaired Driving | CDC Substance Data | 2nd Reference Search String: National Academies analysis of Substance-Involved Accidents
- Functionally Obsolete Bridges (Parkways) - bridges not meeting design standards per 100 bridges | d | 0-100 | Annual | Y | Y | FHWA | FHWA Bridge Data | ASCE Bridge Report | 2nd Reference Search String: National Academies analysis of Functionally Obsolete Bridges
- Structurally Deficient Bridges (Parkways) - bridges with critical deterioration per 100 bridges | d | 0-100 | Annual | Y | Y | FHWA | FHWA NBI | ASCE Bridge Report | 2nd Reference Search String: National Academies analysis of Structurally Deficient Bridges
- Bridge Load Posting (Parkways) - bridges with weight restrictions per 100 bridges | d | 0-100 | Annual | Y | Y | FHWA | FHWA Bridge Posting | DOT Infrastructure Reports | 2nd Reference Search String: National Academies analysis of Bridge Load Posting
- Bridge Inspection Compliance (Parkways) - bridges inspected on schedule per 100 bridges | i | 0-100 | Annual | Y | Y | FHWA | FHWA Inspection | ASCE Bridge Report | 2nd Reference Search String: National Academies analysis of Bridge Inspection Compliance



#### Metropolitan Primary

- Usable / Restricted Miles (Metropolitan Primary) - total miles open vs. restricted per 1,000 road miles | g | 0-1000 | Annual | Y | Y | FHWA | FHWA Highway Data | DOT Infrastructure Reports | 2nd Reference Search String: National Academies analysis of Usable / Restricted Miles
- Ride Quality Index (Metropolitan Primary) - metropolitan primary miles rated acceptable or better per 100 miles | i | 0-100 | Annual | Y | Y | FHWA | FHWA Pavement Data | TRB Pavement Studies | 2nd Reference Search String: National Academies analysis of Ride Quality Index
- Miles Needing Improvement (Metropolitan Primary) - metropolitan primary miles below threshold per 100 miles | d | 0-100 | Annual | Y | Y | FHWA | FHWA HPMS | DOT Infrastructure Reports | 2nd Reference Search String: National Academies analysis of Miles Needing Improvement

- Maintenance Rating Points (MRP) (Metropolitan Primary) - composite condition score | g | 0-100 | Annual | Y | Y | State DOT | State DOT Data | FHWA Maintenance | 2nd Reference Search String: National Academies analysis of Maintenance Rating Points (MRP)
- Accidents (Metropolitan Primary) - incidents per 1,000 miles | d | 0-1,000 | Annual | Y | Y | NHTSA | NHTSA Crash Data | FARS | 2nd Reference Search String: National Academies analysis of Accidents
- Fatal Accidents (Metropolitan Primary) - deaths per 1,000 miles | d | 0-1,000 | Annual | Y | Y | FARS | FARS | CDC Injury Data | 2nd Reference Search String: National Academies analysis of Fatal Accidents
- Substance-Involved Accidents (Metropolitan Primary) - accidents involving alcohol/drugs per 100 accidents | d | 0-100 | Annual | Y | Y | NHTSA | NHTSA Impaired Driving | CDC Substance Data | 2nd Reference Search String: National Academies analysis of Substance-Involved Accidents
- Functionally Obsolete Bridges (Metropolitan Primary) - bridges not meeting design standards per 100 bridges | d | 0-100 | Annual | Y | Y | FHWA | FHWA Bridge Data | ASCE Bridge Report | 2nd Reference Search String: National Academies analysis of Functionally Obsolete Bridges
- Structurally Deficient Bridges (Metropolitan Primary) - bridges with critical deterioration per 100 bridges | d | 0-100 | Annual | Y | Y | FHWA | FHWA NBI | ASCE Bridge Report | 2nd Reference Search String: National Academies analysis of Structurally Deficient Bridges
- Bridge Load Postings (Metropolitan Primary) - bridges with weight restrictions per 100 bridges | d | 0-100 | Annual | Y | Y | FHWA | FHWA Bridge Posting | DOT Infrastructure Reports | 2nd Reference Search String: National Academies analysis of Bridge Load Postings
- Bridge Inspection Compliance (Metropolitan Primary) - bridges inspected on schedule per 100 bridges | i | 0-100 | Annual | Y | Y | FHWA | FHWA Inspection | ASCE Bridge Report | 2nd Reference Search String: National Academies analysis of Bridge Inspection Compliance



## Rural Secondary

- Usable / Restricted Miles (Rural Secondary) - total miles open vs. restricted per 1,000 road miles | g | 0-1000 | Annual | Y | Y | FHWA | FHWA Highway Data | DOT Infrastructure Reports | 2nd Reference Search String: National Academies analysis of Usable / Restricted Miles
- Ride Quality Index (Rural Secondary) - rural secondary miles rated acceptable or better per 100 miles | i | 0-100 | Annual | Y | Y | FHWA | FHWA Pavement Data | TRB Pavement Studies | 2nd Reference Search String: National Academies analysis of Ride Quality Index
- Miles Needing Improvement (Rural Secondary) - rural secondary miles below threshold per 100 miles | d | 0-100 | Annual | Y | Y | FHWA | FHWA HPMS | DOT Infrastructure Reports | 2nd Reference Search String: National Academies analysis of Miles Needing Improvement
- Maintenance Rating Points (MRP) (Rural Secondary) - composite condition score | g | 0-100 | Annual | Y | Y | State DOT | State DOT Data | FHWA Maintenance | 2nd Reference Search String: National Academies analysis of Maintenance Rating Points (MRP)
- Accidents (Rural Secondary) - incidents per 1,000 miles | d | 0-1,000 | Annual | Y | Y | NHTSA | NHTSA Crash Data | FARS | 2nd Reference Search String: National Academies analysis of Accidents
- Fatal Accidents (Rural Secondary) - deaths per 1,000 miles | d | 0-1,000 | Annual | Y | Y | FARS | FARS | CDC Injury Data | 2nd Reference Search String: National Academies analysis of Fatal Accidents
- Substance-Involved Accidents (Rural Secondary) - accidents involving alcohol/drugs per 100 accidents | d | 0-100 | Annual | Y | Y | NHTSA | NHTSA Impaired Driving | CDC Substance Data | 2nd Reference Search String: National Academies analysis of Substance-Involved Accidents
- Functionally Obsolete Bridges (Rural Secondary) - bridges not meeting design standards per 100 bridges | d | 0-100 | Annual | Y | Y | FHWA | FHWA Bridge Data | ASCE Bridge Report | 2nd Reference Search String: National Academies analysis of Functionally Obsolete Bridges
- Structurally Deficient Bridges (Rural Secondary) - bridges with critical deterioration per 100 bridges | d | 0-100 | Annual | Y | Y | FHWA | FHWA NBI | ASCE Bridge Report | 2nd Reference Search String: National Academies analysis of Structurally Deficient Bridges



- Bridge Load Posting (Rural Secondary) - bridges with weight restrictions per 100 bridges  
| d | 0-100 | Annual | Y | Y | FHWA | FHWA Bridge Posting | DOT Infrastructure Reports  
| 2nd Reference Search String: National Academies analysis of Bridge Load Posting
- Bridge Inspection Compliance (Rural Secondary) - bridges inspected on schedule per 100  
bridges | i | 0-100 | Annual | Y | Y | FHWA | FHWA Inspection | ASCE Bridge Report |  
2nd Reference Search String: National Academies analysis of Bridge Inspection  
Compliance

[←](#) Back to Index

## Airports and Aviation

◆ Effort Ideal: Safe, Modern, and Efficient Air Travel Infrastructure

### Capacity and Condition

- Airports Meeting FAA Operational Standards - airports certified under Part 139 per 100 airports | i | 0-100 | Annual | Y | Y | FAA Airport Certification | FAA Certification | DOT Aviation Reports | 2nd Reference Search String: National Academies analysis of Airports Meeting FAA Operational Standards
- Runways Rated Less Than Good - runways below FAA threshold per 100 runways | d | 0-100 | Annual | Y | Y | FAA Pavement Condition | FAA Pavement Data | TRB Pavement Studies | 2nd Reference Search String: National Academies analysis of Runways Rated Less Than Good
- Average Years Beyond Recommended Runway Resurfacing Interval - deferred maintenance years per runway | d | 0-25 | Annual | Y | Y | FAA Advisory Circulars | FAA Advisory Data | DOT Aviation Reports | 2nd Reference Search String: National Academies analysis of Average Years Beyond Recommended Runway Resurfacing Interval

### Usage and Performance

- Flights Departing and Arriving On Time - flights within 15 minutes of schedule per 100 flights | i | 0-100 | Annual | Y | Y | BTS On-Time Performance | BTS On-Time | FAA Performance | 2nd Reference Search String: National Academies analysis of Flights Departing and Arriving On Time
- Average Passenger Load Factor - seats filled per 100 seats | i | 0-100 | Annual | Y | Y | BTS Load Factor | BTS Load Factor | IATA Passenger Data | 2nd Reference Search String: National Academies analysis of Average Passenger Load Factor
- Air Cargo Delivered On Schedule - cargo delivered on time per 100 shipments | i | 0-100 | Annual | Y | Y | FAA Cargo Trends | FAA Cargo | DOT Freight Data | 2nd Reference Search String: National Academies analysis of Air Cargo Delivered On Schedule
- Passenger Satisfaction Index (Airports and Aviation) - passengers rating service good or better per 100 passengers | i | 0-100 | Annual | Y | Y | ACSI Travel Report | ACSI Travel | DOT Passenger Data | 2nd Reference Search String: National Academies analysis of Passenger Satisfaction Index

## Safety and Professionalism

- Aviation Incidents - reportable safety events per 100,000 flights | d | 0-100,000 | Annual | Y | Y | NTSB Aviation Data | NTSB Aviation | FAA Safety | 2nd Reference Search String: National Academies analysis of Aviation Incidents
- Runway Incursions - safety breaches per 1,000 operations | d | 0-1,000 | Annual | Y | Y | FAA Runway Safety | FAA Runway Safety | DOT Aviation Reports | 2nd Reference Search String: National Academies analysis of Runway Incursions
- Serious Ground Injuries - injuries from airport accidents per 1,000 employees/passengers | d | 0-1,000 | Annual | Y | Y | FAA & OSHA | FAA Safety | OSHA Aviation Data | 2nd Reference Search String: National Academies analysis of Serious Ground Injuries
- Serious In-Air Injuries - passenger/crew injuries per 100,000 flights | d | 0-100,000 | Annual | Y | Y | NTSB | NTSB Aviation | FAA Safety | 2nd Reference Search String: National Academies analysis of Serious In-Air Injuries
- Aviation Fatalities - deaths per 100,000 flights | d | 0-100,000 | Annual | Y | Y | NTSB | NTSB Aviation | ICAO Safety | 2nd Reference Search String: National Academies analysis of Aviation Fatalities
- Employee Safety Training Compliance - employees current on certifications per 100 employees | i | 0-100 | Annual | Y | Y | FAA Safety Management Systems | FAA SMS | DOT Safety Data | 2nd Reference Search String: National Academies analysis of Employee Safety Training Compliance
- Reported Safety Violations (Airports and Aviation) - violations per 1,000 employees | d | 0-1,000 | Annual | Y | Y | DOT Inspector General Reports | DOT IG Reports | FAA Safety | 2nd Reference Search String: National Academies analysis of Reported Safety Violations
- Near-Miss Events - incidents narrowly avoiding collision per 100,000 flights | d | 0-100,000 | Annual | Y | Y | FAA & NTSB | FAA Safety Data | NTSB Aviation | 2nd Reference Search String: National Academies analysis of Near-Miss Events

## Machine Maintenance and Reliability

- Scheduled Maintenance Compliance - aircraft receiving required maintenance checks per 100 aircraft | i | 0-100 | Annual | Y | Y | FAA Maintenance Programs | FAA Maintenance | ICAO Safety | 2nd Reference Search String: National Academies analysis of Scheduled Maintenance Compliance

- Deferred Maintenance Items - unresolved maintenance issues per aircraft | d | 0-30 deferred items per aircraft | Annual | Y | Y | FAA Service Difficulty Reports | FAA SDR | DOT Aviation Reports | 2nd Reference Search String: National Academies analysis of Deferred Maintenance Items
- Mean Time Between Failures (MTBF) - average flight hours between mechanical failures | g | 0-30,000 flight hours | Annual | Y | Y | FAA Reliability Data | FAA Reliability | IATA Safety | 2nd Reference Search String: National Academies analysis of Mean Time Between Failures (MTBF)
- Engine Overhaul Compliance - engines overhauled on schedule per 100 engines | i | 0-100 | Annual | Y | Y | FAA Engine Programs | FAA Engine Data | ICAO Standards | 2nd Reference Search String: National Academies analysis of Engine Overhaul Compliance
- Aircraft Grounding - aircraft grounded for mechanical issues per 100 aircraft | d | 0-100 | Annual | Y | Y | FAA Service Difficulty Reports | FAA SDR | DOT Aviation Reports | 2nd Reference Search String: National Academies analysis of Aircraft Grounding

#### Small Aircraft / General Aviation

- General Aviation Accidents - accidents per 100,000 flight hours | d | 0-100,000 | Annual | Y | Y | NTSB GA Data | NTSB GA | FAA GA Safety | 2nd Reference Search String: National Academies analysis of General Aviation Accidents
- General Aviation Fatalities - deaths per 100,000 flight hours | d | 0-100,000 | Annual | Y | Y | NTSB GA Data | NTSB GA | FAA GA Safety | 2nd Reference Search String: National Academies analysis of General Aviation Fatalities
- Pilot Certification Compliance - GA pilots current on required certifications per 100 pilots | i | 0-100 | Annual | Y | Y | FAA | FAA Pilot Data | AOPA Safety | 2nd Reference Search String: National Academies analysis of Pilot Certification Compliance
- Small Aircraft Maintenance Compliance - GA aircraft receiving required inspections per 100 aircraft | i | 0-100 | Annual | Y | Y | FAA | FAA GA Maintenance | ICAO GA Standards | 2nd Reference Search String: National Academies analysis of Small Aircraft Maintenance Compliance

#### Airport Crime and Security

- Reported Airport Crimes - incidents per 1,000 passengers | d | 0-1,000 | Annual | Y | Y | FBI UCR & TSA | FBI Crime Data | TSA Security | 2nd Reference Search String: National Academies analysis of Reported Airport Crimes

- Serious Violent Crimes - assaults, robberies, homicides per 1,000 passengers | d | 0-1,000 | Annual | Y | Y | FBI UCR | FBI Crime Data | DOT Security Reports | 2nd Reference Search String: National Academies analysis of Serious Violent Crimes
- Theft Incidents - baggage/property theft per 1,000 passengers | d | 0-1,000 | Annual | Y | Y | TSA & FBI | TSA Theft Data | FBI Crime Data | 2nd Reference Search String: National Academies analysis of Theft Incidents
- Security Screening Compliance - passengers screened per 100 passengers | i | 0-100 | Annual | Y | Y | TSA | TSA Screening | DOT Security Reports | 2nd Reference Search String: National Academies analysis of Security Screening Compliance

#### Access and Modernization

- Airports with ADA-Compliant Access - airports meeting ADA standards per 100 airports | i | 0-100 | Annual | Y | Y | DOT Accessibility | DOT ADA | ADA National Network | 2nd Reference Search String: National Academies analysis of Airports with ADA-Compliant Access
- Aircraft Meeting Emissions and Noise Standards - aircraft compliant per 100 aircraft | i | 0-100 | Annual | Y | Y | FAA Environmental Programs | FAA Environmental | ICAO Standards | 2nd Reference Search String: National Academies analysis of Aircraft Meeting Emissions and Noise Standards
- Average Aircraft Age - years in service per aircraft compared to recommended lifespan | d | 0-40 | Annual | Y | Y | FAA Fleet Data / ICAO Aviation Statistics | FAA | ICAO Aviation | 2nd Reference Search String: National Academies analysis of Average Aircraft Age
- Aircraft Retirement - aircraft retired per 100 aircraft in service | d | 0-20 | Annual | Y | Y | FAA Fleet Data / ICAO Aviation Statistics | FAA | ICAO Aviation | 2nd Reference Search String: National Academies analysis of Aircraft Retirement
- New Aircraft Delivery - aircraft delivered per 100 aircraft in service | d | 0-20 | Annual | Y | Y | FAA Fleet Data / ICAO Aviation Statistics | FAA | ICAO Aviation | 2nd Reference Search String: National Academies analysis of New Aircraft Delivery

#### Back to Index



## Railroads and Freight

◆ Effort Ideal: Safe, Efficient, and Well-Maintained Rail Infrastructure



### Coverage, Condition, and Rolling Stock

- Rail Track Rated Less Than Good - track below FRA maintenance threshold per 100 miles | d | 0-100 | Annual | Y | Y | FRA Track Safety Standards | FRA Track Safety | DOT Infrastructure Reports | 2nd Reference Search String: National Academies analysis of Rail Track Rated Less Than Good
- Average Years Beyond Recommended Rail Resurfacing Interval - deferred years per segment | d | 0-20 | Annual | Y | Y | FRA Engineering Guidance | FRA Engineering | TRB Rail Studies | 2nd Reference Search String: National Academies analysis of Average Years Beyond Recommended Rail Resurfacing Interval
- Rail Bridge Structural Soundness - bridges rated structurally sound per 100 bridges | i | 0-100 | Annual | Y | Y | FRA Bridge Safety | FRA Bridge Safety | ASCE Bridge Report | 2nd Reference Search String: National Academies analysis of Rail Bridge Structural Soundness
- Locomotives Meeting Emissions Standards - locomotives compliant with EPA Tier standards per 100 locomotives | i | 0-100 | Annual | Y | Y | EPA Locomotive Emissions | EPA Locomotive Data | AAR Environmental Reports | 2nd Reference Search String: National Academies analysis of Locomotives Meeting Emissions Standards
- Average Age of Freight Cars and Locomotives - years in service per unit | d | 0-50 | Annual | Y | Y | AAR Fleet Data | AAR Fleet | DOT Rail Reports | 2nd Reference Search String: National Academies analysis of Average Age of Freight Cars and Locomotives
- Average Years Beyond Recommended Retirement - years beyond recommended retirement per unit | d | 0-20 | Annual | Y | Y | State Rail Plans | State Rail Plans | TRB Rail Studies | 2nd Reference Search String: National Academies analysis of Average Years Beyond Recommended Retirement



### Usage, Access, and User Experience

- Freight Delivered On Time by Rail - shipments delivered on schedule per 100 shipments | i | 0-100 | Annual | Y | Y | AAR Freight Data | AAR Freight | FHWA Freight Reports | 2nd Reference Search String: National Academies analysis of Freight Delivered On Time by Rail

- Passenger Rail Access - population within 25 miles of service per 100 residents | i | 0-100 | Annual | Y | Y | Amtrak Fact Sheets | Amtrak Data | DOT Rail Reports | 2nd Reference Search String: National Academies analysis of Passenger Rail Access
- Intermodal Facility Coverage - counties with intermodal access per 100 counties | i | 0-100 | Annual | Y | Y | FHWA Freight Intermodal | FHWA Freight | DOT Freight Reports | 2nd Reference Search String: National Academies analysis of Intermodal Facility Coverage
- Passenger Satisfaction Index (Railroads and Freight) - passengers rating service good or better per 100 passengers | i | 0-100 | Annual | Y | Y | Amtrak Customer Reports | Amtrak Satisfaction | ACSI Travel | 2nd Reference Search String: National Academies analysis of Passenger Satisfaction Index
- Trains with Wi-Fi and Amenities - trains offering modern onboard features per 100 trains | i | 0-100 | Annual | Y | Y | Amtrak Fleet Modernization | Amtrak Fleet | DOT Rail Reports | 2nd Reference Search String: National Academies analysis of Trains with Wi-Fi and Amenities
- Average Delay - minutes late per passenger trip | d | 0-average passenger trip time | Annual | Y | Y | BTS Rail Performance | BTS Rail | DOT Rail Reports | 2nd Reference Search String: National Academies analysis of Average Delay

#### ⚠ Safety and Professionalism

- Rail-Related Accidents - reportable incidents per 100,000 train miles | d | 0-100,000 | Annual | Y | Y | FRA Safety Data | FRA Safety | NTSB Rail | 2nd Reference Search String: National Academies analysis of Rail-Related Accidents
- Grade Crossing Incidents - collisions at public crossings per 1,000 crossings | d | 0-1,000 | Annual | Y | Y | FRA Crossing Inventory | FRA Crossing | DOT Rail Safety | 2nd Reference Search String: National Academies analysis of Grade Crossing Incidents
- Track-Related Derailments - infrastructure-related derailments per 1,000 miles | d | 0-1,000 | Annual | Y | Y | FRA Derailment Reports | FRA Derailments | NTSB Rail | 2nd Reference Search String: National Academies analysis of Track-Related Derailments
- Serious Passenger Rail Injuries - passenger injuries from rail accidents per 100,000 train Miles | d | 0-100,000 | Annual | Y | Y | FRA & NTSB | NTSB Rail | FRA Safety | 2nd Reference Search String: National Academies analysis of Serious Passenger Rail Injuries

- Passenger Rail Fatalities - passenger deaths from rail accidents per 100,000 train miles | d | 0-100,000 | Annual | Y | Y | FRA & NTSB | NTSB Rail | FRA Safety | 2nd Reference Search String: National Academies analysis of Passenger Rail Fatalities
- Rail Worker Fatalities - deaths among rail employees per 200,000 hours worked | d | 0-10 | Annual | Y | Y | BLS Rail Injury Data | BLS Injuries | DOT Rail Safety | 2nd Reference Search String: National Academies analysis of Rail Worker Fatalities
- Employee Injuries - injuries per 200,000 hours worked | d | 0-20 | Annual | Y | Y | BLS Rail Injury Data | BLS Injuries | DOT Rail Safety | 2nd Reference Search String: National Academies analysis of Employee Injuries
- Safety Training Compliance - employees current on required training per 100 employees | i | 0-100 | Annual | Y | Y | FRA Safety Programs | FRA Safety | DOT Safety Reports | 2nd Reference Search String: National Academies analysis of Safety Training Compliance
- Rule Violations - safety violations per inspection | d | 0-100 | Annual | Y | Y | FRA Inspection Reports | FRA Inspection | DOT Safety Reports | 2nd Reference Search String: National Academies analysis of Rule Violations
- Positive Safety Culture Index - employees reporting proactive safety behavior per 100 employees | i | 0-100 | Annual | Y | Y | DOT Safety Culture Tools | DOT Safety Culture | NTSB Safety Culture | 2nd Reference Search String: National Academies analysis of Positive Safety Culture Index

[← Back to Index](#)



## Public Transit Systems

◆ Effort Ideal: Accessible, Reliable, and Efficient Public Transportation for All

### Coverage and Access

- Population Within ½ Mile of Transit - residents with nearby service per 100 residents | i | 0-100 | Annual | Y | Y | ACS | US Census ACS | TransitCenter Access | 2nd Reference Search String: National Academies analysis of Population Within ½ Mile of Transit
- Transit Access for Disabled Riders - stops and vehicles ADA-compliant per 100 | i | 0-100 | Annual | Y | Y | NTD | NTD Data | ADA National Network | 2nd Reference Search String: National Academies analysis of Transit Access for Disabled Riders
- Transit Routes Operating at Useful Frequency - routes with ≤15 min peak headways per 100 routes | i | 0-100 | Annual | Y | Y | TransitCenter Frequency Reports | TransitCenter | FTA Data | 2nd Reference Search String: National Academies analysis of Transit Routes Operating at Useful Frequency
- Transit Stops with Real-Time Arrival Info - stops with digital signage/app integration per 100 stops | i | 0-100 | Annual | Y | Y | FTA Mobility on Demand Sandbox | FTA MOD | TransitCenter Access | 2nd Reference Search String: National Academies analysis of Transit Stops with Real-Time Arrival Info

### Reliability and Performance

- On-Time Performance - trips on schedule per 100 trips | i | 0-100 | Annual | Y | Y | BTS | BTS Transit | FTA Reliability | 2nd Reference Search String: National Academies analysis of On-Time Performance
- Transit Ridership - average annual rides per resident | i | 0-400 rides per resident per year | Annual | Y | Y | NTD | NTD Ridership | TransitCenter Ridership | 2nd Reference Search String: National Academies analysis of Transit Ridership
- Average Vehicle Age Compared to Recommended Lifespan - years in service vs. FTA standard | d | 0-20 | Annual | Y | Y | FTA Transit Asset Management Guide | FTA TAM | DOT Asset Reports | 2nd Reference Search String: National Academies analysis of Average Vehicle Age Compared to Recommended Lifespan
- Transit Vehicles Completing Trips Without Breakdown - reliability rate per 100 vehicles | i | 0-100 | Annual | Y | Y | FTA Vehicle Reliability Reports | FTA Reliability | TransitCenter Reliability | 2nd Reference Search String: National Academies analysis of Transit Vehicles Completing Trips Without Breakdown

- Maintenance Inspection Compliance - vehicles inspected on schedule per 100 vehicles | i | 0-100 | Annual | Y | Y | FTA Maintenance Reports | FTA Maintenance | DOT Transit Safety | 2nd Reference Search String: National Academies analysis of Maintenance Inspection Compliance

#### Affordability and Emissions

- Average Fare Cost - dollars per ride | g | 0-30 dollars per ride | Annual | Y | Y | BTS Fare Data | BTS Fare | TransitCenter Affordability | 2nd Reference Search String: National Academies analysis of Average Fare Cost
- Farebox Operating Recovery - fare revenue per operating dollar | g | 0-1 | Annual | Y | Y | NTD Financial Reports | NTD Finance | FTA Finance | 2nd Reference Search String: National Academies analysis of Farebox Operating Recovery
- Transit Fleet Emissions - CO<sub>2</sub>e per vehicle mile | d | 0-3000 | Annual | Y | Y | EPA SmartWay Transit Data | EPA SmartWay | FTA Emissions | 2nd Reference Search String: National Academies analysis of Transit Fleet Emissions
- Transit Fleet Electric or Hybrid - clean fleet share per 100 vehicles | i | 0-100 | Annual | Y | Y | FTA Low-No Program Reports | FTA Low-No | EPA Clean Transit | 2nd Reference Search String: National Academies analysis of Transit Fleet Electric or Hybrid

#### Safety and Professionalism

- Transit Safety Incidents Involving Injury or Death - serious events per 100,000 trips | d | 0-100,000 | Annual | Y | Y | FTA Safety and Security Reports | FTA Safety | DOT Transit Safety | 2nd Reference Search String: National Academies analysis of Transit Safety Incidents Involving Injury or Death
- Serious Transit Bus Passenger Injuries - injuries sustained during bus operations per 100,000 trips | d | 0-100,000 | Annual | Y | Y | FTA & NTSB | FTA Safety | NTSB Transit | 2nd Reference Search String: National Academies analysis of Serious Transit Bus Passenger Injuries
- Transit Bus Passenger Fatalities - deaths sustained during bus operations per 100,000 trips | d | 0-100,000 | Annual | Y | Y | FTA & NTSB | FTA Safety | NTSB Transit | 2nd Reference Search String: National Academies analysis of Transit Bus Passenger Fatalities
- Operator Safety Training Compliance - operators current on required certifications per 100 operators | i | 0-100 | Annual | Y | Y | FTA Safety Certification Program | FTA Certification | DOT Safety | 2nd Reference Search String: National Academies analysis of Operator Safety Training Compliance

- Passenger Complaint Resolution - complaints resolved within 30 days per 100 complaints | i | 0-100 | Annual | Y | Y | Transit Agency Customer Service Reports | Transit Agency Reports | TransitCenter Satisfaction | 2nd Reference Search String: National Academies analysis of Passenger Complaint Resolution
- Operator Courtesy Index - riders rating driver behavior good or better per 100 riders | i | 0-100 | Annual | Y | Y | Transit Rider Satisfaction Surveys | Transit Surveys | ACSI Travel | 2nd Reference Search String: National Academies analysis of Operator Courtesy Index

[!\[\]\(1d3a1175dd4902218e694b9c098adb83\_img.jpg\) Back to Index](#)

## Public Vehicle Fleets

◆ Effort Ideal: Efficient, Safe, and Well-Maintained Government Vehicle Fleets

### Condition and Safety

- Average Vehicle Age Compared to Recommended Retirement - years beyond recommended retirement per vehicle | d | 0-20 | Annual | Y | Y | Fleetio Benchmarks | Fleetio Benchmarks | DOT Fleet Reports | 2nd Reference Search String: National Academies analysis of Average Vehicle Age Compared to Recommended Retirement
- Fleet Meeting Safety Inspection Standards - vehicles compliant with state/federal thresholds per 100 vehicles | i | 0-100 | Annual | Y | Y | State Fleet Reports | State Fleet Data | DOT Fleet Safety | 2nd Reference Search String: National Academies analysis of Fleet Meeting Safety Inspection Standards
- Serious Accidents - accidents involving injury or fatality per 100,000 fleet miles | d | 0-100,000 | Annual | Y | Y | FMCSA Safety Data | FMCSA Safety | NHTSA Crash Data | 2nd Reference Search String: National Academies analysis of Serious Accidents
- Percent of School Buses Meeting Safety and Emissions Standards - buses compliant with NHTSA/EPA standards per 100 buses | i | 0-100 | Annual | Y | Y | NHTSA School Bus Safety | NHTSA School Bus | EPA Emissions | 2nd Reference Search String: National Academies analysis of Percent of School Buses Meeting Safety and Emissions Standards
- Serious School Bus Passenger Injuries - injuries sustained during school bus operations per 100,000 miles | d | 0-100,000 | Annual | Y | Y | NHTSA School Bus Safety | NHTSA School Bus | NASDPTS | 2nd Reference Search String: National Academies analysis of Serious School Bus Passenger Injuries
- School Bus Passenger Fatalities - deaths sustained during school bus operations per 100,000 miles | d | 0-100,000 | Annual | Y | Y | NHTSA School Bus Safety | NHTSA School Bus | NASDPTS | 2nd Reference Search String: National Academies analysis of School Bus Passenger Fatalities

### Efficiency and Emissions

- Fuel Economy Rating - miles per gallon equivalent | g | 0-100 | Annual | Y | Y | EPA Fuel Economy Guide | EPA Fuel Economy | DOT Fleet Efficiency | 2nd Reference Search String: National Academies analysis of Fuel Economy Rating
- Fleet Emissions - CO<sub>2</sub>e per vehicle mile | d | 0-3,000 | Annual | Y | Y | EPA SmartWay Fleet Data | EPA SmartWay | DOT Emissions | 2nd Reference Search String: National Academies analysis of Fleet Emissions

- Fleet Electric or Hybrid - electrification progress per 100 vehicles | i | 0-100 | Annual | Y | Y | State Fleet Electrification Plans | State Fleet Plans | DOE EV Data | 2nd Reference Search String: National Academies analysis of Fleet Electric or Hybrid

#### Maintenance and Professionalism

- Meeting Service Schedule - vehicles maintained on schedule per 100 vehicles | i | 0-100 | Annual | Y | Y | Fleet Management Systems | Fleet Management | DOT Fleet Maintenance | 2nd Reference Search String: National Academies analysis of Meeting Service Schedule
- Fleet Reliability - vehicles completing trips without breakdown per 100 vehicles | i | 0-100 | Annual | Y | Y | Fleetio Reliability Reports | Fleetio Reliability | DOT Fleet Reports | 2nd Reference Search String: National Academies analysis of Fleet Reliability
- Maintenance-Determined Accidents - accidents linked to deferred/failed maintenance per 100 accidents | d | 0-100 | Annual | Y | Y | FMCSA Maintenance Impact Study | FMCSA Maintenance | NHTSA Crash Data | 2nd Reference Search String: National Academies analysis of Maintenance-Determined Accidents
- Reported Safety Violations (Public Vehicle Fleets) - disciplinary/compliance events per 1,000 school bus drivers | d | 0-1,000 | Annual | Y | Y | NASDPTS & State School Bus Safety Reports | NASDPTS | NHTSA School Bus | 2nd Reference Search String: National Academies analysis of Reported Safety Violations
- Driver Safety Training Compliance - drivers current on required certifications per 100 drivers | i | 0-100 | Annual | Y | Y | State Driver Training Programs | State Training | DOT Safety | 2nd Reference Search String: National Academies analysis of Driver Safety Training Compliance

 [Back to Index](#)



## Roadside Facilities and Support

◆ Effort Ideal: Safe, Clean, and Functional Roadside Infrastructure



### Facility Condition and Access

- Roadside Facilities Rated Good or Better - facilities rated acceptable per 100 facilities | i | 0-100 | Annual | Y | Y | FTA Facility Assessment Guidebook | FTA Facilities | DOT Facility Reports | 2nd Reference Search String: National Academies analysis of Roadside Facilities Rated Good or Better
- Facility Condition Index (FCI) - Deferred maintenance dollars per \$1,000 of replacement cost | d | 0-1000 | Annual | Y | Y | Gordian FCI Standards | Gordian FCI | DOT Facility Reports | 2nd Reference Search String: National Academies analysis of Facility Condition Index (FCI)
- Facilities Open and Operational - uptime rate per 100 facilities | i | 0-100 | Annual | Y | Y | State DOT Facility Reports | State DOT | DOT Facility Reports | 2nd Reference Search String: National Academies analysis of Facilities Open and Operational
- Facilities ADA-Compliant - facilities meeting accessibility standards per 100 facilities | i | 0-100 | Annual | Y | Y | DOT Accessibility Standards | DOT ADA | ADA National Network | 2nd Reference Search String: National Academies analysis of Facilities ADA-Compliant



### Safety and Cleanliness

- Roadside Lighting and Signage Adequacy - facilities meeting standards per 100 facilities | i | 0-100 | Annual | Y | Y | NCDOT Roadside Environmental Indicators | NCDOT Indicators | DOT Facility Reports | 2nd Reference Search String: National Academies analysis of Roadside Lighting and Signage Adequacy
- Missed Maintenance - missed cleanings per 100 scheduled | g | 0-100 | Annual | Y | Y | State DOT Maintenance Logs | State DOT | DOT Maintenance | 2nd Reference Search String: National Academies analysis of Missed Maintenance
- Average Response Time for Facility Repairs - days to resolve reported issues | d | 0-30 | Annual | Y | Y | Facility Management Systems | Facility Management | DOT Facility Reports | 2nd Reference Search String: National Academies analysis of Average Response Time for Facility Repairs
- Facility Safety Incidents - incidents per 100,000 visitors | d | 0-100,000 | Annual | Y | Y | AAA Roadside Worker Fatality Reports | AAA Safety | DOT Safety | 2nd Reference Search String: National Academies analysis of Facility Safety Incidents

- Serious Crimes Reported at Roadside - violent/property crimes per facility Per Year | d | 0-100 | Annual | Y | Y | Local Crime Reporting Systems | Local Crime Data | DOT Safety | 2nd Reference Search String: National Academies analysis of Serious Crimes Reported at Roadside

#### EV Infrastructure and Staff Behavior

- EV Charging Stations Operational - uptime rate per 100 stations | i | 0-100 | Annual | Y | Y | DOE Alternative Fuels Data Center | DOE AFDC | DOT EV Reports | 2nd Reference Search String: National Academies analysis of EV Charging Stations Operational
- Facility Staff Courtesy Index - users rating staff behavior good or better per 100 users | i | 0-100 | Annual | Y | Y | Facility User Satisfaction Surveys | Facility Surveys | DOT Facility Reports | 2nd Reference Search String: National Academies analysis of Facility Staff Courtesy Index
- Staff Safety Training Compliance - staff current on required certifications per 100 staff | i | 0-100 | Annual | Y | Y | State DOT Training Programs | State DOT | DOT Safety | 2nd Reference Search String: National Academies analysis of Staff Safety Training Compliance

 [Back to Index](#)

## Energy

◆ Effort Ideal: Reliable, Clean, Affordable, and Equitably Distributed Energy and Connectivity for All

### Grid Reliability and Resilience

- Electric Grid Reliability Index (SAIDI) - average outage minutes per customer per year | d | 0-1000 | Annual | Y | Y | DOE Grid Data | DOE Grid | EIA Reliability | 2nd Reference Search String: National Academies analysis of Electric Grid Reliability Index (SAIDI)
- System Average Interruption Frequency Index (SAIFI) - average number of outages per customer per year | d | 0-10 | Annual | Y | Y | EIA Reliability Metrics | EIA Reliability | DOE Grid | 2nd Reference Search String: National Academies analysis of System Average Interruption Frequency Index (SAIFI)
- Grid Infrastructure Rated Less Than Good - substations, lines, transformers below condition threshold per 100 assets | d | 0-100 | Annual | Y | Y | KPI Institute Utility KPIs | KPI Utility | DOE Grid | 2nd Reference Search String: National Academies analysis of Grid Infrastructure Rated Less Than Good
- Average Years Beyond Recommended Lifespan for Grid Assets - years beyond expected service life per asset | d | 0-30 | Annual | Y | Y | Predictive Analytics for Aging Infrastructure | DOE Asset Data | EIA Infrastructure | 2nd Reference Search String: National Academies analysis of Average Years Beyond Recommended Lifespan for Grid Assets
- Grid Meeting Cybersecurity Standards - utilities compliant with NERC CIP protocols per 100 utilities | i | 0-100 | Annual | Y | Y | NERC Reliability Reports | NERC Reliability | DOE Cybersecurity | 2nd Reference Search String: National Academies analysis of Grid Meeting Cybersecurity Standards

### Clean Energy and Emissions

- Renewable Energy Infrastructure Coverage - grid energy from renewables per 100 units | i | 0-100 | Annual | Y | Y | EIA Renewable Data | EIA Renewables | DOE Clean Energy | 2nd Reference Search String: National Academies analysis of Renewable Energy Infrastructure Coverage
- Energy Produced with Zero Emissions - nuclear, hydro, solar, wind per 100 units | i | 0-100 | Annual | Y | Y | EPA Emissions Inventory | EPA Emissions | EIA Clean Energy | 2nd Reference Search String: National Academies analysis of Energy Produced with Zero Emissions



- Energy Sector CO<sub>2</sub> Emissions Annually - metric tons per person per year | d | 0-20 | Annual | Y | Y | EIA Emissions Reports | EIA Emissions | EPA Climate | 2nd Reference Search String: National Academies analysis of Energy Sector CO<sub>2</sub> Emissions Annually
- Utilities Offering Net Metering - utilities offering net metering per 100 utilities | i | 0-100 | Annual | Y | Y | DSIRE Net Metering Database | DSIRE Net Metering | DOE Solar | 2nd Reference Search String: National Academies analysis of Utilities Offering Net Metering
- Dissipation Loss from Production to Use Point - energy lost in transmission/distribution per 100 units | d | 0-100 | Annual | Y | Y | EIA Transmission Data | EIA Transmission | DOE Grid | 2nd Reference Search String: National Academies analysis of Dissipation Loss from Production to Use Point


#### Access and Affordability

- Access to Broadband Internet - households with high-speed access per 100 households | i | 0-100 | Annual | Y | Y | FCC Broadband Data | FCC Broadband | DOE Connectivity | 2nd Reference Search String: National Academies analysis of Access to Broadband Internet
- Households with Reliable Electricity Access - households with uninterrupted service per 100 households | i | 0-100 | Annual | Y | Y | EIA Residential Energy Survey | EIA Residential | DOE Energy Access | 2nd Reference Search String: National Academies analysis of Households with Reliable Electricity Access
- Average Residential Energy Burden - household income spent on energy per household per year | d | 0-10000 | Annual | Y | Y | DOE LEAD Tool | DOE LEAD | EIA Residential | 2nd Reference Search String: National Academies analysis of Average Residential Energy Burden
- Households Eligible for Energy Assistance Receiving It - households receiving LIHEAP per 100 eligible households | i | 0-100 | Annual | Y | Y | HHS LIHEAP Data | HHS LIHEAP | DOE Energy Assistance | 2nd Reference Search String: National Academies analysis of Households Eligible for Energy Assistance Receiving It

#### Safety and Professionalism

- Energy Infrastructure Safety Incidents - reportable injuries or violations per 1,000 workers | d | 0-1,000 | Annual | Y | Y | BLS Energy Sector Injury Data | BLS Injuries | DOE Safety | 2nd Reference Search String: National Academies analysis of Energy Infrastructure Safety Incidents

- Safety Violations Issued Per Year (Energy) - formal citations issued annually per thousand employees | d | 0-50 | Annual | Y | Y | DOE Enforcement InfoCenter | DOE Enforcement | OSHA | 2nd Reference Search String: National Academies analysis of Safety Violations Issued Per Year
- Utility Worker Safety Training Compliance - workers current on required certifications per 100 workers annually | i | 0-100 | Annual | Y | Y | State Utility Safety Programs | State Utility Safety | DOT Safety | 2nd Reference Search String: National Academies analysis of Utility Worker Safety Training Compliance
- Reported Cybersecurity Breaches Per Year - confirmed grid-related incidents reported per 100 grid assets | d | 0-10 breaches per 100 grid assets | Annual | Y | Y | DOE Cybersecurity Reports | DOE Cybersecurity | NERC Reliability | 2nd Reference Search String: National Academies analysis of Reported Cybersecurity Breaches Per Year
- Energy Projects Meeting Environmental Review Standards - projects compliant with NEPA and state review per 100 projects | i | 0-100 | Annual | Y | Y | EPA Environmental Review | EPA NEPA | DOE Environmental | 2nd Reference Search String: National Academies analysis of Energy Projects Meeting Environmental Review Standards
- Substantiated Energy Program Fraud and Misuse – substantiated fraud, waste, or abuse cases in energy grant, loan, or incentive programs per \$1 billion awarded | d | 0–50 | Annual | Y | Y | DOE OIG / GAO | <https://www.energy.gov/ig> | 2nd Reference Search String: National Academies analysis of Energy Program Fraud, Waste, and Abuse

 [Back to Index](#)



## Oil and Natural Gas

◆ Effort Ideal: Safe, Efficient, Environmentally Responsible, and Well-Maintained Energy Infrastructure Across All Lifecycle Stages



### Extraction and Production

- Active Oil and Gas Wells - wells currently producing per 100 wells | g | 0-100 | Annual | Y | Y | EIA Drilling Data | EIA Wells | DOE Oil | 2nd Reference Search String: National Academies analysis of Active Oil and Gas Wells
- Average Age of Wells Compared to Recommended Lifespan - years beyond recommended lifespan per well | d | 0-30 | Annual | Y | Y | State Utility Reports | State Utility | DOE Oil | 2nd Reference Search String: National Academies analysis of Average Age of Wells Compared to Recommended Lifespan
- Environmental Incident Rate at Wells - spills, leaks, violations per 100 wells | d | 0-100 | Annual | Y | Y | EPA Incident Reports | EPA Incidents | DOE Safety | 2nd Reference Search String: National Academies analysis of Environmental Incident Rate at Wells
- Wells Meeting Safety Standards - wells compliant with EPA and state standards per 100 wells | i | 0-100 | Annual | Y | Y | EPA Enforcement Data | EPA Enforcement | DOE Oil | 2nd Reference Search String: National Academies analysis of Wells Meeting Safety Standards



### Refining and Processing

- Active Refineries - refineries currently operating per 100 refineries | g | 0-100 | Annual | Y | Y | EIA Refinery Data | EIA Refineries | DOE Oil | 2nd Reference Search String: National Academies analysis of Active Refineries
- Average Refinery Age Compared to Recommended Lifespan - years beyond recommended lifespan per refinery | d | 0-50 | Annual | Y | Y | State Utility Reports | State Utility | DOE Oil | 2nd Reference Search String: National Academies analysis of Average Refinery Age Compared to Recommended Lifespan
- Refinery Compliance with Emissions Standards - refineries meeting EPA thresholds per 100 refineries | i | 0-100 | Annual | Y | Y | EPA Emissions Data | EPA Emissions | DOE Oil | 2nd Reference Search String: National Academies analysis of Refinery Compliance with Emissions Standards

- Environmental Incident Rate at Refineries - spills, contamination, violations per 100 refineries | d | 0-100 | Annual | Y | Y | EPA Enforcement Data | EPA Enforcement | DOE Safety | 2nd Reference Search String: National Academies analysis of Environmental Incident Rate at Refineries

#### Pipelines and Transport

- Active Pipeline Mileage - miles of pipeline currently in service per 100 miles | g | 0-100 | Annual | Y | Y | PHMSA Pipeline Data | PHMSA Pipelines | DOE Oil | 2nd Reference Search String: National Academies analysis of Active Pipeline Mileage
- Average Pipeline Age Compared to Recommended Lifespan - years beyond recommended lifespan per pipeline segment | d | 0-70 | Annual | Y | Y | State Utility Reports | State Utility | DOE Oil | 2nd Reference Search String: National Academies analysis of Average Pipeline Age Compared to Recommended Lifespan
- Pipeline Safety Compliance - pipelines meeting PHMSA standards per 100 pipelines | i | 0-100 | Annual | Y | Y | PHMSA Safety Reports | PHMSA Safety | DOE Oil | 2nd Reference Search String: National Academies analysis of Pipeline Safety Compliance
- Environmental Incident at Pipelines - leaks, ruptures, violations per 100 pipelines | d | 0-100 | Annual | Y | Y | PHMSA Incident Reports | PHMSA Incidents | DOE Safety | 2nd Reference Search String: National Academies analysis of Environmental Incident at Pipelines


#### Storage and Legacy Sites

- Active Storage Facilities - facilities currently operating per 100 facilities | g | 0-100 | Annual | Y | Y | EIA Storage Data | EIA Storage | DOE Oil | 2nd Reference Search String: National Academies analysis of Active Storage Facilities
- Average Age of Storage Facilities Compared to Recommended Lifespan - years beyond recommended lifespan per facility | d | 0-40 | Annual | Y | Y | State Utility Reports | State Utility | DOE Oil | 2nd Reference Search String: National Academies analysis of Average Age of Storage Facilities Compared to Recommended Lifespan
- Storage Facility Safety Compliance - facilities meeting EPA standards per 100 facilities | i | 0-100 | Annual | Y | Y | EPA Enforcement Data | EPA Enforcement | DOE Oil | 2nd Reference Search String: National Academies analysis of Storage Facility Safety Compliance

- Environmental Incident Rate at Storage Facilities - leaks, contamination, violations per 100 facilities | d | 0-100 | Annual | Y | Y | EPA Incident Reports | EPA Incidents | DOE Safety | 2nd Reference Search String: National Academies analysis of Environmental Incident Rate at Storage Facilities

## Safety and Oversight

- Oil and Gas Worker Safety Incidents - reportable injuries or violations per 1,000 workers | d | 0-1,000 | Annual | Y | Y | BLS Oil and Gas Injury Data | BLS Injuries | DOE Safety | 2nd Reference Search String: National Academies analysis of Oil and Gas Worker Safety Incidents
- Safety Violations Issued Per Year (Oil and Natural Gas) - formal citations issued per 1,000 employees | d | 0-50 | Annual | Y | Y | DOE Enforcement InfoCenter | DOE Enforcement | OSHA | 2nd Reference Search String: National Academies analysis of Safety Violations Issued Per Year
- Facilities with Climate Resilience Plans (Oil and Natural Gas) - facilities with resilience plans per 100 facilities | i | 0-100 | Annual | Y | Y | EPA Climate Resilience Tools | EPA Climate | DOE Oil | 2nd Reference Search String: National Academies analysis of Facilities with Climate Resilience Plans
- Environmental Review Compliance - projects meeting NEPA and state standards per 100 projects | i | 0-100 | Annual | Y | Y | EPA Environmental Review | EPA NEPA | DOE Environmental | 2nd Reference Search String: National Academies analysis of Environmental Review Compliance

 [Back to Index](#)

## Coal

◆ Effort Ideal: Safe, Efficient, Environmentally Responsible, and Well-Maintained Coal Infrastructure Across All Lifecycle Stages

### Treatment and Processing

- Coal Washing Efficiency - impurities removed per 100 units | i | 0-100 | Annual | Y | Y | DOE Coal Preparation Reports | DOE Coal | EIA Coal | 2nd Reference Search String: National Academies analysis of Coal Washing Efficiency
- Energy Consumption Per Ton Treated - kWh per ton treated | d | 0-1000 | Annual | Y | Y | EIA Industrial Energy Use | EIA Industrial | DOE Energy | 2nd Reference Search String: National Academies analysis of Energy Consumption Per Ton Treated
- Processing Equipment Rated Less Than Good - condition assessments per 100 assets | d | 0-100 | Annual | Y | Y | State Mining Equipment Audits | State Mining | DOE Mining | 2nd Reference Search String: National Academies analysis of Processing Equipment Rated Less Than Good
- Process Safety Events Per Year (Coal) - Tier 1 and Tier 2 incidents per 1,000 employees | d | 0-20 | Annual | Y | Y | MSHA Safety Reports | MSHA Safety | DOE Safety | 2nd Reference Search String: National Academies analysis of Process Safety Events Per Year

### Storage

- Storage Utilization - coal stockpile capacity actively used per 100 units | i | 0-100 | Annual | Y | Y | EIA Coal Stocks | EIA Coal Stocks | DOE Storage | 2nd Reference Search String: National Academies analysis of Storage Utilization
- Storage Sites Meeting Environmental Standards - runoff, dust, containment compliance per 100 sites | i | 0-100 | Annual | Y | Y | EPA Facility Compliance | EPA Compliance | DOE Facility Reports | 2nd Reference Search String: National Academies analysis of Storage Sites Meeting Environmental Standards
- Average Age of Storage Infrastructure Compared to Recommended Lifespan - years beyond recommended lifespan per facility | d | 0-40 | Annual | Y | Y | State Utility Reports | State Utility | DOE Asset Reports | 2nd Reference Search String: National Academies analysis of Average Age of Storage Infrastructure Compared to Recommended Lifespan

- Safety Violations Issued Per Year at Storage Sites (Coal) - formal citations per 100 storage sites | d | 0-50 | Annual | Y | Y | DOE Enforcement InfoCenter | DOE Enforcement | OSHA | 2nd Reference Search String: National Academies analysis of Safety Violations Issued Per Year at Storage Sites

#### Distribution Systems

- Coal Transport Efficiency - shipments delivered on time per 100 shipments | i | 0-100 | Annual | Y | Y | BTS Freight Data | BTS Freight | DOT Freight | 2nd Reference Search String: National Academies analysis of Coal Transport Efficiency
- Rail and Barge Infrastructure Condition Index - rated good or better per 100 units | i | 0-100 | Annual | Y | Y | FRA & MARAD Reports | FRA | MARAD | 2nd Reference Search String: National Academies analysis of Rail and Barge Infrastructure Condition Index
- Environmental Incidents During Transport - spills, dust, contamination events per 100 shipments | d | 0-100 | Annual | Y | Y | EPA Incident Reports | EPA Incidents | DOT Safety | 2nd Reference Search String: National Academies analysis of Environmental Incidents During Transport
- Worker Safety Training Compliance in Distribution - workers current on certifications per 100 workers | i | 0-100 | Annual | Y | Y | DOT Safety Programs | DOT Safety | OSHA | 2nd Reference Search String: National Academies analysis of Worker Safety Training Compliance in Distribution

#### Environmental and Safety Oversight

- Coal Sector CO<sub>2</sub> Emissions Per Year - Metric tons CO<sub>2</sub> per ton of coal burned | d | 0-5 | Annual | Y | Y | EPA Emissions Inventory | EPA Emissions | EIA Coal | 2nd Reference Search String: National Academies analysis of Coal Sector CO<sub>2</sub> Emissions Per Year
- Coal Facilities with Active Pollution Controls - scrubbers, filters, etc. per 100 facilities | i | 0-100 | Annual | Y | Y | EIA Environmental Equipment Data | EIA Equipment | EPA Compliance | 2nd Reference Search String: National Academies analysis of Coal Facilities with Active Pollution Controls
- Reported Safety Violations Per Year Across Coal Infrastructure - formal citations annually per 1,000 employees | d | 0-50 | Annual | Y | Y | MSHA & DOE Enforcement Reports | MSHA | DOE Enforcement | 2nd Reference Search String: National Academies analysis of Reported Safety Violations Per Year Across Coal Infrastructure

- Coal Projects Meeting Environmental Review Standards - NEPA/state compliance per 100 projects | i | 0-100 | Annual | Y | Y | EPA Environmental Review | EPA NEPA | DOE Environmental | 2nd Reference Search String: National Academies analysis of Coal Projects Meeting Environmental Review Standards

#### Health and Environmental Legacy

- Abandoned Coal Waste Impoundments Pending Reclamation - Sites pending reclamation per 100 known impoundments | d | 0-100 | Annual | Y | Y | Kentucky AML Program | Kentucky AML | OSMRE | 2nd Reference Search String: National Academies analysis of Abandoned Coal Waste Impoundments Pending Reclamation
- Impoundments Rated High Risk - based on structural integrity/proximity to communities per 100 sites | d | 0-100 | Annual | Y | Y | Appalachian Citizens' Law Center | ACLC | EPA Risk | 2nd Reference Search String: National Academies analysis of Impoundments Rated High Risk
- Average Time Since Last Inspection of Abandoned Impoundments - years since last inspection per site | d | 0-20 | Annual | Y | Y | Federal AML Reclamation Fund Reports | AML Fund | EPA Compliance | 2nd Reference Search String: National Academies analysis of Average Time Since Last Inspection of Abandoned Impoundments
- Environmental Incident Rate at Legacy Impoundments - spills, seepage, contamination events per 100 sites | d | 0-100 | Annual | Y | Y | EPA Compliance Dashboard | EPA Compliance | DOE Environmental | 2nd Reference Search String: National Academies analysis of Environmental Incident Rate at Legacy Impoundments
- Coal Miner Injuries - nonfatal injuries/illnesses per 100 full-time workers | d | 0-100 | Annual | Y | Y | BLS Mining Injury Data | BLS Injuries | MSHA Safety | 2nd Reference Search String: National Academies analysis of Coal Miner Injuries
- Coal Miner Fatalities - work-related deaths per 100,000 workers | d | 0-100,000 | Annual | Y | Y | MSHA Fatality Reports | MSHA Fatalities | BLS Injuries | 2nd Reference Search String: National Academies analysis of Coal Miner Fatalities
- Miners Receiving Regular Health Screenings - compliance with black lung/respiratory monitoring per 100 miners | i | 0-100 | Annual | Y | Y | NIOSH Coal Workers' Health Surveillance Program | NIOSH Surveillance | MSHA Health | 2nd Reference Search String: National Academies analysis of Miners Receiving Regular Health Screenings



- Reported Cases of Pneumoconiosis - black lung disease incidence per 1,000 miners | d | 0-1,000 | Annual | Y | Y | CDC NIOSH Surveillance Data | CDC NIOSH | MSHA Health | 2nd Reference Search String: National Academies analysis of Reported Cases of Pneumoconiosis

[←](#) Back to Index

## Water Supply

◆ Effort Ideal: Safe, Reliable, Environmentally Sustainable, and Equitably Distributed Water Infrastructure Across All Lifecycle Stages

### Source Acquisition

- Water Sources Meeting Quality Standards - compliance with EPA thresholds per 100 sources | i | 0-100 | Annual | Y | Y | EPA SDWIS | EPA SDWIS | EPA Drinking Water | 2nd Reference Search String: National Academies analysis of Water Sources Meeting Quality Standards
- Average Age of Source Infrastructure Compared to Recommended Lifespan - years beyond recommended lifespan per source asset | d | 0-40 | Annual | Y | Y | ASCE Infrastructure Report Card | ASCE Report Card | State Water Reports | 2nd Reference Search String: National Academies analysis of Average Age of Source Infrastructure Compared to Recommended Lifespan
- Watersheds with Active Protection Plans - coverage per 100 watersheds | i | 0-100 | Annual | Y | Y | EPA Source Water Protection | EPA Source Water | State Water Programs | 2nd Reference Search String: National Academies analysis of Watersheds with Active Protection Plans

### Treatment

- Treatment Facilities Meeting Operational Standards - compliance with state/federal rules per 100 facilities | i | 0-100 | Annual | Y | Y | EPA Drinking Water Needs Survey | EPA DWINS | State Water Reports | 2nd Reference Search String: National Academies analysis of Treatment Facilities Meeting Operational Standards
- Average Treatment Plant Age Compared to Recommended Lifespan (Water Supply) - years beyond recommended lifespan per plant | d | 0-50 | Annual | Y | Y | State Water Infrastructure Reports | State Water Reports | ASCE Report Card | 2nd Reference Search String: National Academies analysis of Average Treatment Plant Age Compared to Recommended Lifespan
- Treatment Efficiency - contaminants removed per 100 units | i | 0-100 | Annual | Y | Y | CDC Water Treatment Performance | CDC Water | EPA Water | 2nd Reference Search String: National Academies analysis of Treatment Efficiency
- Process Safety Events Per Year (Water Supply) - Tier 1 and Tier 2 incidents per 1,000 employees in water treatment | d | 0-20 | Annual | Y | Y | EPA Incident Tracking | EPA

Incidents | DOE Safety | 2nd Reference Search String: National Academies analysis of Process Safety Events Per Year

## Storage

- Storage Tanks Rated Good or Better - condition assessments per 100 tanks | i | 0-100 | Annual | Y | Y | State Utility Asset Reports | State Utility | ASCE Report Card | 2nd Reference Search String: National Academies analysis of Storage Tanks Rated Good or Better
- Storage Capacity Utilization - usable volume actively used per 100 units | i | 0-100 | Annual | Y | Y | EPA Water System Capacity | EPA Capacity | DOE Water | 2nd Reference Search String: National Academies analysis of Storage Capacity Utilization
- Average Time Since Last Inspection of Storage Facilities - years since last inspection per facility | d | 0-20 | Annual | Y | Y | State Drinking Water Programs | State DW | EPA Compliance | 2nd Reference Search String: National Academies analysis of Average Time Since Last Inspection of Storage Facilities
- Safety Violations Issued Per Year at Storage Sites (Water Supply) - formal citations per 100 storage sites | d | 0-50 | Annual | Y | Y | EPA Enforcement InfoCenter | EPA Enforcement | DOE Safety | 2nd Reference Search String: National Academies analysis of Safety Violations Issued Per Year at Storage Sites


## Distribution Systems

- Distribution Lines Rated Good or Better - pipe condition per 100 miles | i | 0-100 | Annual | Y | Y | ASCE Infrastructure Report Card | ASCE Report Card | EPA Water | 2nd Reference Search String: National Academies analysis of Distribution Lines Rated Good or Better
- Water Loss - treated water lost before reaching users per 100 units | d | 0-100 | Annual | Y | Y | EPA Water Audit Guidance | EPA Audit | AWWA | 2nd Reference Search String: National Academies analysis of Water Loss
- Average Age of Distribution Pipes Compared to Recommended Lifespan - years beyond recommended lifespan per pipe segment | d | 0-70 | Annual | Y | Y | State Utility Reports | State Utility | ASCE Report Card | 2nd Reference Search String: National Academies analysis of Average Age of Distribution Pipes Compared to Recommended Lifespan

- Distribution System Meeting Pressure Standards - adequate flow/pressure per 100 systems | i | 0-100 | Annual | Y | Y | AWWA Distribution System Performance | AWWA | EPA Water | 2nd Reference Search String: National Academies analysis of Distribution System Meeting Pressure Standards

#### Safety and Environmental Oversight

- Drinking Water Violations - health-based/monitoring violations per 100,000 residents | d | 0-100,000 | Annual | Y | Y | EPA SDWIS Violation Reports | EPA SDWIS | EPA Compliance | 2nd Reference Search String: National Academies analysis of Drinking Water Violations
- Water Systems with Emergency Response Plans - preparedness per 100 systems | i | 0-100 | Annual | Y | Y | EPA Water Security Program | EPA Security | FEMA Water | 2nd Reference Search String: National Academies analysis of Water Systems with Emergency Response Plans
- Operators Current on Safety Certifications (Water Supply) - compliance per 100 operators | i | 0-100 | Annual | Y | Y | State Operator Certification Programs | State Certification | EPA Safety | 2nd Reference Search String: National Academies analysis of Operators Current on Safety Certifications
- Environmental Incident Rate at Water Facilities - spills/contamination/discharge violations per 100 facilities | d | 0-100 | Annual | Y | Y | EPA Enforcement and Compliance History | EPA ECHO | DOE Safety | 2nd Reference Search String: National Academies analysis of Environmental Incident Rate at Water Facilities

 [Back to Index](#)



## Wastewater and Sewer

◆ Effort Ideal: Safe, Reliable, Environmentally Responsible, and Well-Maintained Wastewater and Sewer Systems Across All Lifecycle Stages

### ● Sewer Systems

- Sewer Lines Rated Good or Better - condition assessments per 100 miles | i | 0-100 | Annual | Y | Y | ASCE Infrastructure Report Card | ASCE Report Card | EPA Sewer | 2nd Reference Search String: National Academies analysis of Sewer Lines Rated Good or Better
- Average Age of Sewer Lines Compared to Recommended Lifespan - years beyond recommended lifespan per line segment | d | 0-70 | Annual | Y | Y | EPA Clean Water State Revolving Fund | EPA CWSRF | State Sewer Reports | 2nd Reference Search String: National Academies analysis of Average Age of Sewer Lines Compared to Recommended Lifespan
- Sewer Overflow Incidents (Sanitary Sewers) - overflows per 100 miles of pipe | d | 0-100 | Annual | Y | Y | EPA SSO Program | EPA SSO | EPA Sewer | 2nd Reference Search String: National Academies analysis of Sewer Overflow Incidents
- Sewer Systems with Emergency Response Plans - preparedness per 100 systems | i | 0-100 | Annual | Y | Y | EPA Water Security Program | EPA Security | FEMA Sewer | 2nd Reference Search String: National Academies analysis of Sewer Systems with Emergency Response Plans
- Population in Areas Without Sewers Where Sewers Are Needed - households relying on septic/injection per 100 households | d | 0-100 | Annual | Y | Y | EPA Septic & Decentralized Wastewater Data | EPA Septic | EPA Wastewater | 2nd Reference Search String: National Academies analysis of Population in Areas Without Sewers Where Sewers Are Needed



### Wastewater Treatment Plants

- Treatment Plants Meeting Operational Standards - compliance with NPDES permits per 100 plants | i | 0-100 | Annual | Y | Y | EPA NPDES Compliance Data | EPA NPDES | EPA Wastewater | 2nd Reference Search String: National Academies analysis of Treatment Plants Meeting Operational Standards

- Average Treatment Plant Age Compared to Recommended Lifespan (Wastewater and Sewer) - years beyond recommended lifespan per plant | d | 0-50 | Annual | Y | Y | State Utility Asset Reports | State Utility | ASCE Report Card | 2nd Reference Search String: National Academies analysis of Average Treatment Plant Age Compared to Recommended Lifespan
- Treatment Efficiency - contaminants removed per 100 units | i | 0-100 | Annual | Y | Y | EPA Wastewater Treatment Performance | EPA Wastewater | DOE Water | 2nd Reference Search String: National Academies analysis of Treatment Efficiency
- Process Safety Events Per Year (Wastewater and Sewer) - Tier 1 and Tier 2 incidents per 1,000 employees | d | 0-20 | Annual | Y | Y | EPA Incident Tracking | EPA Incidents | DOE Safety | 2nd Reference Search String: National Academies analysis of Process Safety Events Per Year
- Energy Consumption of Wastewater Treated - kWh per million gallons treated per unit | d | 0-10,000 kWh per million gallons | Annual | Y | Y | DOE Industrial Energy Use | DOE Energy | EIA Industrial | 2nd Reference Search String: National Academies analysis of Energy Consumption of Wastewater Treated
- Wastewater Injected Into Ground Without Treatment - untreated disposal per 100 units | d | 0-100 | Annual | Y | Y | EPA Underground Injection Control Program | EPA UIC | EPA Wastewater | 2nd Reference Search String: National Academies analysis of Wastewater Injected Into Ground Without Treatment
- Active Class I Injection Wells - wells per 100 facilities | g | 0-100 | Annual | Y | Y | EPA UIC Class I Wells | EPA UIC Wells | DOE Water | 2nd Reference Search String: National Academies analysis of Active Class I Injection Wells
- Total Volume of Wastewater Injected Per Year - average volume injected per well | g | 0-10000000 | Annual | Y | Y | EPA UIC Data Reports | EPA UIC Data | EPA Wastewater | 2nd Reference Search String: National Academies analysis of Total Volume of Wastewater Injected Per Year
- Class I Wells Meeting Safety and Environmental Standards - compliance per 100 wells | i | 0-100 | Annual | Y | Y | EPA Enforcement and Compliance History | EPA ECHO | EPA UIC | 2nd Reference Search String: National Academies analysis of Class I Wells Meeting Safety and Environmental Standards

- Average Age of Class I Wells Compared to Recommended Lifespan - years beyond recommended lifespan per well | d | 0-40 | Annual | Y | Y | EPA UIC Program Data | EPA UIC | State Utility Reports | 2nd Reference Search String: National Academies analysis of Average Age of Class I Wells Compared to Recommended Lifespan
- Environmental Incident Rate at Class I Wells - leaks, contamination, violations per 100 wells | d | 0-100 | Annual | Y | Y | EPA UIC Enforcement Reports | EPA UIC Enforcement | DOE Safety | 2nd Reference Search String: National Academies analysis of Environmental Incident Rate at Class I Wells
- Toxic Wastewater Managed by Class I Wells vs. Other Disposal Methods - share per 100 units | g | 0-100 | Annual | Y | Y | EPA Hazardous Waste Management Data | EPA Hazardous Waste | EPA Wastewater | 2nd Reference Search String: National Academies analysis of Toxic Wastewater Managed by Class I Wells vs. Other Disposal Methods

#### Stormwater and Flood Control

- Stormwater Infrastructure Rated Good or Better - drains, culverts, retention basins per 100 assets | i | 0-100 | Annual | Y | Y | ASCE Infrastructure Report Card | ASCE Report Card | EPA Stormwater | 2nd Reference Search String: National Academies analysis of Stormwater Infrastructure Rated Good or Better
- Stormwater Overflow Incidents - flooding or bypass events per 100 miles | d | 0-100 | Annual | Y | Y | EPA Stormwater Program | EPA Stormwater | FEMA Flood | 2nd Reference Search String: National Academies analysis of Stormwater Overflow Incidents
- Stormwater Systems with Green Infrastructure Integration - bioswales, permeable pavement, rain gardens per 100 systems | i | 0-100 | Annual | Y | Y | EPA Green Infrastructure Program | EPA Green Infrastructure | DOE Water | 2nd Reference Search String: National Academies analysis of Stormwater Systems with Green Infrastructure Integration
- Average Response Time to Flooding Events - hours to deploy mitigation per flooding event | d | 0-72 | Annual | Y | Y | FEMA Flood Response Reports | FEMA Flood Response | EPA Stormwater | 2nd Reference Search String: National Academies analysis of Average Response Time to Flooding Events
- Flood Risk Areas Meeting Recommended Flood Control Standards - coverage per 100 areas | i | 0-100 | Annual | Y | Y | FEMA Floodplain Management | FEMA Floodplain | EPA Flood | 2nd Reference Search String: National Academies analysis of Flood Risk Areas Meeting Recommended Flood Control Standards

## Safety and Environmental Oversight

- Wastewater Violations - health-based and monitoring violations per 100,000 residents | d | 0-100,000 | Annual | Y | Y | EPA Enforcement and Compliance History | EPA ECHO | EPA Wastewater | 2nd Reference Search String: National Academies analysis of Wastewater Violations
- Operators Current on Safety Certifications (Wastewater and Sewer) - compliance per 100 operators | i | 0-100 | Annual | Y | Y | State Operator Certification Programs | State Certification | EPA Safety | 2nd Reference Search String: National Academies analysis of Operators Current on Safety Certifications
- Environmental Incident Rate at Wastewater Facilities - spills, contamination, discharge violations per 100 facilities | d | 0-100 | Annual | Y | Y | EPA Incident Reports | EPA Incidents | DOE Safety | 2nd Reference Search String: National Academies analysis of Environmental Incident Rate at Wastewater Facilities
- Facilities with Climate Resilience Plans (Wastewater and Sewer) - preparedness for extreme weather per 100 facilities | i | 0-100 | Annual | Y | Y | EPA CREAT Tool | EPA CREAT | FEMA Climate | 2nd Reference Search String: National Academies analysis of Facilities with Climate Resilience Plans
- Injury and Death Rate Due to Wastewater Incidents and Floods - contextual safety measure per 100 incidents | d | 0-20 injuries/deaths per 100 incidents | Annual | Y | Y | CDC Waterborne Disease Surveillance, FEMA Flood Fatality Data | CDC Waterborne | FEMA Flood Fatalities | 2nd Reference Search String: National Academies analysis of Injury and Death Rate Due to Wastewater Incidents and Floods

 [Back to Index](#)





## Solid Waste

◆ Effort Ideal: Safe, Environmentally Responsible, and Well-Maintained Solid Waste Systems Across All Lifecycle Stages



### Source and Collection

- Municipal Solid Waste Collected vs. Generated - coverage of collection systems per 100 units | i | 0-100 | Annual | Y | Y | EPA Advancing Sustainable Materials Management Reports | EPA SMM | EPA Waste | 2nd Reference Search String: National Academies analysis of Municipal Solid Waste Collected vs. Generated
- Illegal Dumping Incident Rate - reported violations per 100,000 residents | d | 0-100,000 | Annual | Y | Y | State Environmental Enforcement Programs | State Enforcement | EPA Enforcement | 2nd Reference Search String: National Academies analysis of Illegal Dumping Incident Rate
- Population Without Reliable Waste Collection Service - underserved households per 100 households | d | 0-100 | Annual | Y | Y | EPA Community Waste Access Data | EPA Access | EPA Waste | 2nd Reference Search String: National Academies analysis of Population Without Reliable Waste Collection Service



### Treatment and Disposal

- Waste Diverted from Landfills - recycling, composting, energy recovery per 100 units | i | 0-100 | Annual | Y | Y | EPA Recycling and Composting Data | EPA Recycling | EPA Composting | 2nd Reference Search String: National Academies analysis of Waste Diverted from Landfills
- Active vs. Abandoned Waste Dumps - abandoned sites per 100 sites | g | 0-100 | Annual | Y | Y | EPA Facility Registry Service | EPA FRS | EPA Waste | 2nd Reference Search String: National Academies analysis of Active vs. Abandoned Waste Dumps
- Landfills Meeting Environmental Standards - liners, leachate collection, methane capture per 100 sites | i | 0-100 | Annual | Y | Y | EPA Landfill Compliance | EPA Landfills | EPA Compliance | 2nd Reference Search String: National Academies analysis of Landfills Meeting Environmental Standards
- Environmental Incident Rate at Landfills - leaks, contamination, violations per 100 sites | d | 0-100 | Annual | Y | Y | EPA Enforcement Data | EPA Enforcement | EPA Waste | 2nd Reference Search String: National Academies analysis of Environmental Incident Rate at Landfills

- Average Age of Landfill Infrastructure Compared to Recommended Lifespan - years beyond recommended lifespan per landfill | d | 0-40 | Annual | Y | Y | State Solid Waste Reports | State Waste | ASCE Report Card | 2nd Reference Search String: National Academies analysis of Average Age of Landfill Infrastructure Compared to Recommended Lifespan

#### Recycling and Circular Economy

- Recycling Rate of Municipal Solid Waste - recycled share per 100 units | i | 0-100 | Annual | Y | Y | EPA Recycling Data | EPA Recycling | EPA Waste | 2nd Reference Search String: National Academies analysis of Recycling Rate of Municipal Solid Waste
- Composting Rate of Organic Waste - composted share per 100 units | i | 0-100 | Annual | Y | Y | EPA Composting Data | EPA Composting | EPA Waste | 2nd Reference Search String: National Academies analysis of Composting Rate of Organic Waste
- Recyclables Contaminated or Landfilled - rejected recycling loads per 100 units | d | 0-100 | Annual | Y | Y | State Recycling Program Reports | State Recycling | EPA Recycling | 2nd Reference Search String: National Academies analysis of Recyclables Contaminated or Landfilled
- Average Distance to Recycling Facilities - distance per household | g | 0-50 | Annual | Y | Y | EPA Recycling Infrastructure Data | EPA Recycling Infra | EPA Waste | 2nd Reference Search String: National Academies analysis of Average Distance to Recycling Facilities
- Population with Access to Recycling Programs - households covered per 100 households | i | 0-100 | Annual | Y | Y | EPA Recycling Access Reports | EPA Recycling Access | EPA Waste | 2nd Reference Search String: National Academies analysis of Population with Access to Recycling Programs

#### Waste-to-Energy and Innovation

- Solid Waste Processed in Waste-to-Energy Facilities - share per 100 units | i | 0-100 | Annual | Y | Y | EPA Energy Recovery Data | EPA Energy Recovery | DOE Waste | 2nd Reference Search String: National Academies analysis of Solid Waste Processed in Waste-to-Energy Facilities
- Energy Generated From Waste - kWh per ton of waste processed | g | 0-1000 | Annual | Y | Y | DOE Waste-to-Energy Reports | DOE Waste | EPA Energy | 2nd Reference Search String: National Academies analysis of Energy Generated From Waste

- Waste-to-Energy Facilities Meeting Emissions Standards - compliance per 100 facilities | i | 0-100 | Annual | Y | Y | EPA Facility Compliance | EPA Compliance | EPA Waste | 2nd Reference Search String: National Academies analysis of Waste-to-Energy Facilities Meeting Emissions Standards
- Average Age of Waste-to-Energy Facilities Compared to Recommended Lifespan - years beyond recommended lifespan per facility | d | 0-40 | Annual | Y | Y | State Utility Reports | State Utility | DOE Energy | 2nd Reference Search String: National Academies analysis of Average Age of Waste-to-Energy Facilities Compared to Recommended Lifespan
- Innovation Adoption Rate in Solid Waste Systems - facilities using advanced sorting, AI, methane capture per 100 facilities | i | 0-100 | Annual | Y | Y | EPA Sustainable Materials Management | EPA SMM | EPA Waste | 2nd Reference Search String: National Academies analysis of Innovation Adoption Rate in Solid Waste Systems

#### Storage and Legacy Sites


- Abandoned Waste Dumps Pending Reclamation - Pending reclamation sites per 100 known abandoned dumps | g | 0-100 | Annual | Y | Y | EPA Superfund & Brownfields Programs | EPA Superfund | EPA Brownfields | 2nd Reference Search String: National Academies analysis of Abandoned Waste Dumps Pending Reclamation
- Dumps Rated High Risk for Water Contamination - geological shifting/liner failure per 100 sites | d | 0-100 | Annual | Y | Y | EPA Groundwater Protection Program | EPA Groundwater | EPA Waste | 2nd Reference Search String: National Academies analysis of Dumps Rated High Risk for Water Contamination
- Average Time Since Last Inspection of Abandoned Dumps - years since last inspection per site | d | 0-20 | Annual | Y | Y | State Environmental Agencies | State Agencies | EPA Waste | 2nd Reference Search String: National Academies analysis of Average Time Since Last Inspection of Abandoned Dumps

#### Safety and Environmental Oversight

- Solid Waste Violations (Per Resident) - citations/enforcement actions per 100,000 residents | d | 0-100,000 | Annual | Y | Y | EPA Enforcement & Compliance History | EPA ECHO | EPA Waste | 2nd Reference Search String: National Academies analysis of Solid Waste Violations
- Operators Current on Safety Certifications (Solid Waste) - compliance per 100 operators | i | 0-100 | Annual | Y | Y | State Operator Certification Programs | State Certification |

EPA Safety | 2nd Reference Search String: National Academies analysis of Operators Current on Safety Certifications

- Injury and Death Rate Due to Solid Waste Incidents - worker/public safety per 100 incidents | d | 0-100 | Annual | Y | Y | BLS Solid Waste Injury Data | BLS Injuries | OSHA | 2nd Reference Search String: National Academies analysis of Injury and Death Rate Due to Solid Waste Incidents
- Facilities with Climate Resilience Plans (Solid Waste) - preparedness per 100 facilities | i | 0-100 | Annual | Y | Y | EPA Climate Resilience Tools | EPA Climate | FEMA Climate | 2nd Reference Search String: National Academies analysis of Facilities with Climate Resilience Plans

 [Back to Index](#)

## Public Buildings and Facilities

◆ Effort Ideal: Safe, Accessible, Efficient, and Well-Maintained Public Buildings Supporting Governance, Justice, and Public Service Delivery

### Government Buildings

- Government Buildings Rated Good or Better - condition assessments per 100 buildings | i | 0-100 | Annual | Y | Y | GSA Federal Real Property Profile | GSA FRPP | DOE Facilities | 2nd Reference Search String: National Academies analysis of Government Buildings Rated Good or Better
- Average Age of Government Buildings Compared to Recommended Lifespan - years beyond recommended lifespan per building | d | 0-70 | Annual | Y | Y | GSA Asset Management Reports | GSA Asset | ASCE Report Card | 2nd Reference Search String: National Academies analysis of Average Age of Government Buildings Compared to Recommended Lifespan
- Energy Consumption in Government Buildings - kWh per square foot | d | 0-300 kWh per square foot | Annual | Y | Y | DOE Energy Use in Federal Facilities | DOE Energy | EIA Buildings | 2nd Reference Search String: National Academies analysis of Energy Consumption in Government Buildings
- Security Incident Rate in Government Buildings - reported incidents per 100 buildings | d | 0-100 | Annual | Y | Y | DHS Federal Facility Security Reports | DHS Security | FEMA Facilities | 2nd Reference Search String: National Academies analysis of Security Incident Rate in Government Buildings
- Emergency Response Plan Compliance (Government Buildings) - compliance per 100 buildings | i | 0-100 | Annual | Y | Y | FEMA Federal Facility Planning Guidance | FEMA Planning | DOE Safety | 2nd Reference Search String: National Academies analysis of Emergency Response Plan Compliance

### Courthouses

- Courthouses Meeting Accessibility Standards - compliance per 100 courthouses | i | 0-100 | Annual | Y | Y | DOJ ADA Compliance Reports | DOJ ADA | State Judicial Reports | 2nd Reference Search String: National Academies analysis of Courthouses Meeting Accessibility Standards

- Average Time Since Last Courthouse Renovation - years since last renovation per courthouse | d | 0-50 | Annual | Y | Y | State Judicial Facility Reports | State Judicial | ASCE Report Card | 2nd Reference Search String: National Academies analysis of Average Time Since Last Courthouse Renovation
- Security Incidents in Courthouses - reported incidents per 100 courthouses | d | 0-100 | Annual | Y | Y | US Marshals Service Courthouse Security | US Marshals | DOJ Security | 2nd Reference Search String: National Academies analysis of Security Incidents in Courthouses
- Emergency Response Plan Compliance (Courthouses) - compliance per 100 courthouses | i | 0-100 | Annual | Y | Y | DOJ Court Security Planning | DOJ Court Security | FEMA Planning | 2nd Reference Search String: National Academies analysis of Emergency Response Plan Compliance

#### Military Facilities

- Military Facilities Rated Mission-Ready - readiness per 100 facilities | i | 0-100 | Annual | Y | Y | DoD Base Structure Report | DoD Base | DoD Facilities | 2nd Reference Search String: National Academies analysis of Military Facilities Rated Mission-Ready
- Energy Resilience Index for Military Facilities - resilience score per facility | g | 0-100 | Annual | Y | Y | DoD Energy Resilience Reports | DoD Energy | DOE Energy | 2nd Reference Search String: National Academies analysis of Energy Resilience Index for Military Facilities
- Military Housing Condition Index - housing quality per 100 units | i | 0-100 | Annual | Y | Y | DoD Military Housing Reports | DoD Housing | GAO Housing | 2nd Reference Search String: National Academies analysis of Military Housing Condition Index
- Family Support Services Availability - services available per 100 facilities | i | 0-100 | Annual | Y | Y | DoD Family Readiness Programs | DoD Family | Military OneSource | 2nd Reference Search String: National Academies analysis of Family Support Services Availability
- Childcare Facility Compliance Rate (Public) – publicly owned or operated childcare facilities meeting all required building, safety, and licensing standards per 100 facilities | i | 0–100 | Annual | Y | Y | State Licensing Agencies / Local Building Inspectors | <https://www.acf.hhs.gov/occ> | 2nd Reference Search String: National Academies analysis of Public Childcare Facility Compliance

- Childcare Facility Safety Violations (Public) – publicly owned childcare facilities with safety-related violations per 100 facilities | d | 0–20 | Annual | Y | Y | State Licensing Agencies / Local Building Inspectors | <https://www.acf.hhs.gov/occ> | 2nd Reference Search String: National Academies analysis of Public Childcare Facility Safety Violations
- On-Base Safety Incidents - reported incidents per 100 facilities | d | 0-100 | Annual | Y | Y | DoD Safety Data | DoD Safety | OSHA | 2nd Reference Search String: National Academies analysis of On-Base Safety Incidents
- Emergency Response Plan Compliance (Military Facilities) - compliance per 100 facilities | i | 0-100 | Annual | Y | Y | DoD Emergency Management | DoD Emergency | FEMA Military | 2nd Reference Search String: National Academies analysis of Emergency Response Plan Compliance

#### Criminal Justice Facilities

- Correctional Facilities Meeting Safety Standards - compliance per 100 facilities | i | 0-100 | Annual | Y | Y | BJS Correctional Facility Data | BJS Facilities | DOJ Corrections | 2nd Reference Search String: National Academies analysis of Correctional Facilities Meeting Safety Standards
- Employee Injury and Death in Correctional Facilities - incidents per 1,000 employees | d | 0-1,000 | Annual | Y | Y | BLS Injury Data | BLS Injuries | DOJ Safety | 2nd Reference Search String: National Academies analysis of Employee Injury and Death in Correctional Facilities
- Prisoner Injury and Death in Correctional Facilities - incidents per 1,000 prisoners | d | 0-1,000 | Annual | Y | Y | BJS Prison Safety Data | BJS Safety | DOJ Corrections | 2nd Reference Search String: National Academies analysis of Prisoner Injury and Death in Correctional Facilities
- Recruitment and Retention of Correctional Staff - staff hired/retained per 100 positions | g | 0-100 | Annual | Y | Y | BJS Workforce Reports | BJS Workforce | DOJ Corrections | 2nd Reference Search String: National Academies analysis of Recruitment and Retention of Correctional Staff
- Security Incidents in Correctional Facilities - reported incidents per 100 facilities | d | 0-100 | Annual | Y | Y | DOJ Correctional Security Reports | DOJ Security | FEMA Corrections | 2nd Reference Search String: National Academies analysis of Security Incidents in Correctional Facilities

- Emergency Response Plan Compliance (Criminal Justice Facilities) - compliance per 100 facilities | i | 0-100 | Annual | Y | Y | DOJ Correctional Emergency Planning | DOJ Emergency | FEMA Corrections | 2nd Reference Search String: National Academies analysis of Emergency Response Plan Compliance

[!\[\]\(d263118e0bfd47dc6bc704167d936b83\_img.jpg\) Back to Index](#)



## Public Walkways and Access

◆ Effort Ideal: Safe, Accessible, and Well-Maintained Public Pathways Supporting Mobility, Safety, and Community Life

### Sidewalks and Curbs

- Sidewalks Rated Good or Better - condition assessments per 100 sidewalks | i | 0-100 | Annual | Y | Y | FHWA Pedestrian Infrastructure Data | FHWA Pedestrian | DOT Infrastructure | 2nd Reference Search String: National Academies analysis of Sidewalks Rated Good or Better
- Curbs Meeting Accessibility Standards - compliance per 100 curbs | i | 0-100 | Annual | Y | Y | DOJ ADA Compliance Reports | DOJ ADA | DOT Accessibility | 2nd Reference Search String: National Academies analysis of Curbs Meeting Accessibility Standards
- Average Age of Sidewalks Compared to Recommended Lifespan - years beyond recommended lifespan per sidewalk segment | d | 0-70 | Annual | Y | Y | Local Public Works Reports | Local Public Works | ASCE Report Card | 2nd Reference Search String: National Academies analysis of Average Age of Sidewalks Compared to Recommended Lifespan
- Emergency Response Plan Compliance (Public Works) - compliance per 100 facilities | i | 0-100 | Annual | Y | Y | FEMA Local Infrastructure Planning | FEMA Planning | DOT Safety | 2nd Reference Search String: National Academies analysis of Emergency Response Plan Compliance (Public Works)

### Crosswalks and Pedestrian Safety

- Crosswalks Meeting Safety Standards - compliance per 100 crosswalks | i | 0-100 | Annual | Y | Y | FHWA Pedestrian Safety Data | FHWA Safety | DOT Safety | 2nd Reference Search String: National Academies analysis of Crosswalks Meeting Safety Standards
- Pedestrian Injury and Death Rate at Crosswalks - incidents per 1,000 pedestrians | d | 0-1,000 | Annual | Y | Y | NHTSA Pedestrian Safety Data | NHTSA Pedestrian | CDC Injury | 2nd Reference Search String: National Academies analysis of Pedestrian Injury and Death Rate at Crosswalks
- Security Incident Rate in Public Walkways - reported incidents per 100 walkways | d | 0-100 | Annual | Y | Y | FBI Uniform Crime Reports | FBI UCR | DOJ Crime | 2nd Reference Search String: National Academies analysis of Security Incident Rate in Public Walkways

- Emergency Response Plan Compliance (Traffic Safety) - compliance per 100 systems | i | 0-100 | Annual | Y | Y | DOT Traffic Safety Programs | DOT Safety | FEMA Planning | 2nd Reference Search String: National Academies analysis of Emergency Response Plan Compliance (Traffic Safety)

## Stairs, Ramps, and Public Access Points

- Public Stairs and Ramps Meeting Accessibility Standards - compliance per 100 facilities | i | 0-100 | Annual | Y | Y | DOJ ADA Compliance Reports | DOJ ADA | DOT Accessibility | 2nd Reference Search String: National Academies analysis of Public Stairs and Ramps Meeting Accessibility Standards
- Average Time Since Last Inspection of Public Access Points - years since last inspection per access point | d | 0-20 | Annual | Y | Y | Local Public Works Reports | Local Public Works | ASCE Report Card | 2nd Reference Search String: National Academies analysis of Average Time Since Last Inspection of Public Access Points
- Incident Rate at Public Access Points - reported incidents per 100 facilities | d | 0-100 | Annual | Y | Y | CDC Injury Surveillance | CDC Injury | OSHA | 2nd Reference Search String: National Academies analysis of Incident Rate at Public Access Points
- Emergency Response Plan Compliance (Public Facilities Access ) - compliance per 100 facilities | i | 0-100 | Annual | Y | Y | FEMA Local Infrastructure Planning | FEMA Planning | DOT Safety | 2nd Reference Search String: National Academies analysis of Emergency Response Plan Compliance (Public Access Facilities)

 [Back to Index](#)



## Educational

◆ Effort Ideal: Safe, Accessible, Modern, and Equitably Distributed Educational Facilities Supporting Human Capital Development



### Daycare and Early Childhood

- Licensed Daycare Centers Meeting Safety Standards - compliance per 100 centers | i | 0-100 | Annual | Y | Y | State Childcare Licensing Reports | State Childcare | DOE Early Childhood | 2nd Reference Search String: National Academies analysis of Licensed Daycare Centers Meeting Safety Standards
- Average Age of Early Childhood Facilities Compared to Recommended Lifespan - years beyond recommended lifespan per facility | d | 0-40 | Annual | Y | Y | State Education Facility Data | State Education | ASCE Report Card | 2nd Reference Search String: National Academies analysis of Average Age of Early Childhood Facilities Compared to Recommended Lifespan
- Worker Vetting and Abuse Oversight Compliance - compliance per 100 facilities | i | 0-100 | Annual | Y | Y | State Childcare Oversight Programs | State Oversight | DOE Safety | 2nd Reference Search String: National Academies analysis of Worker Vetting and Abuse Oversight Compliance
- Security Incidents in Daycare Facilities - reported incidents per 100 facilities | d | 0-100 | Annual | Y | Y | State Childcare Safety Reports | State Safety | DOJ Safety | 2nd Reference Search String: National Academies analysis of Security Incidents in Daycare Facilities
- Emergency Response Plan Compliance (Daycare and Early Childhood) - compliance per 100 facilities | i | 0-100 | Annual | Y | Y | DOE Early Childhood Safety Guidance | DOE Early Childhood | FEMA Planning | 2nd Reference Search String: National Academies analysis of Emergency Response Plan Compliance



### K-12 Schools

- K-12 Schools Rated Good or Better - condition assessments per 100 schools | i | 0-100 | Annual | Y | Y | NCES School Facilities Data | NCES Facilities | DOE Schools | 2nd Reference Search String: National Academies analysis of K-12 Schools Rated Good or Better

- Schools Meeting Indoor Air Quality Standards - compliance per 100 schools | i | 0-100 | Annual | Y | Y | EPA IAQ Tools for Schools | EPA IAQ | DOE Schools | 2nd Reference Search String: National Academies analysis of Schools Meeting Indoor Air Quality Standards
- Average Age of K-12 School Buildings Compared to Recommended Lifespan - years beyond recommended lifespan per building | d | 0-70 | Annual | Y | Y | NCES School Facilities Data | NCES Facilities | ASCE Report Card | 2nd Reference Search String: National Academies analysis of Average Age of K-12 School Buildings Compared to Recommended Lifespan
- Disability and Special Needs Readiness - readiness per 100 schools | i | 0-100 | Annual | Y | Y | DOE Special Education Data | DOE Special Ed | NCES | 2nd Reference Search String: National Academies analysis of Disability and Special Needs Readiness
- Security Incidents in K-12 Schools - reported incidents per 100 schools | d | 0-100 | Annual | Y | Y | NCES School Safety Data | NCES Safety | DOE Safety | 2nd Reference Search String: National Academies analysis of Security Incidents in K-12 Schools
- Emergency Response Plan Compliance (K-12 Schools) - compliance per 100 schools | i | 0-100 | Annual | Y | Y | DOE School Emergency Planning | DOE Emergency | FEMA Planning | 2nd Reference Search String: National Academies analysis of Emergency Response Plan Compliance

#### Community Colleges and Vocational Training

- Community Colleges Meeting Accessibility Standards - compliance per 100 colleges | i | 0-100 | Annual | Y | Y | DOE Postsecondary Facility Reports | DOE Postsecondary | IPEDS | 2nd Reference Search String: National Academies analysis of Community Colleges Meeting Accessibility Standards
- Vocational Training Centers Rated Good or Better - condition assessments per 100 centers | i | 0-100 | Annual | Y | Y | State Workforce Development Reports | State Workforce | DOE Workforce | 2nd Reference Search String: National Academies analysis of Vocational Training Centers Rated Good or Better
- Facility Condition Index for Community Colleges - condition per 100 facilities | d | 0-100 | Annual | Y | Y | IPEDS Facilities Data | IPEDS Facilities | DOE Postsecondary | 2nd Reference Search String: National Academies analysis of Facility Condition Index for Community Colleges

- Security Incidents in Community Colleges - reported incidents per 100 colleges | d | 0-100 | Annual | Y | Y | DOE Campus Safety Reports | DOE Campus Safety | DOJ Safety | 2nd Reference Search String: National Academies analysis of Security Incidents in Community Colleges
- Emergency Response Plan Compliance (Community Colleges and Vocational Training) - compliance per 100 colleges | i | 0-100 | Annual | Y | Y | DOE Postsecondary Emergency Planning | DOE Emergency | FEMA Planning | 2nd Reference Search String: National Academies analysis of Emergency Response Plan Compliance

### Universities

- University Buildings Meeting Energy Efficiency Standards - compliance per 100 buildings | i | 0-100 | Annual | Y | Y | DOE Higher Education Energy Data | DOE Higher Ed | EPA Energy | 2nd Reference Search String: National Academies analysis of University Buildings Meeting Energy Efficiency Standards
- Average Age of University Buildings Compared to Recommended Lifespan - years beyond recommended lifespan per building | d | 0-80 | Annual | Y | Y | IPEDS Facilities Data | IPEDS Facilities | ASCE Report Card | 2nd Reference Search String: National Academies analysis of Average Age of University Buildings Compared to Recommended Lifespan
- Universities with Climate Resilience Plans for Facilities - preparedness per 100 universities | i | 0-100 | Annual | Y | Y | EPA Climate Resilience Tools | EPA Climate | DOE Universities | 2nd Reference Search String: National Academies analysis of Universities with Climate Resilience Plans for Facilities
- Dorm Security Incidents - reported incidents per 100 dorms | d | 0-100 | Annual | Y | Y | DOE Campus Safety Reports | DOE Campus Safety | DOJ Safety | 2nd Reference Search String: National Academies analysis of Dorm Security Incidents
- Emergency Response Plan Compliance (Universities) - compliance per 100 universities | i | 0-100 | Annual | Y | Y | DOE University Emergency Planning | DOE Emergency | FEMA Planning | 2nd Reference Search String: National Academies analysis of Emergency Response Plan Compliance

 [Back to Index](#)

## Privately Owned Buildings and Facilities

◆ Effort Ideal: Safe, Sustainable, and Well-Maintained Private Buildings Supporting Housing, Commerce, and Industry

### Residential Buildings

- Housing Units Meeting Safety Standards - units compliant with codes per 100 housing units | i | 0-100 | Annual | Y | Y | HUD Housing Quality Standards | HUD HQS | HUD Housing Quality Standards Guide | 2nd Reference Search String: National Academies analysis of Housing Units Meeting Safety Standards
- Average Age of Housing Units Compared to Recommended Lifespan - years beyond recommended lifespan per housing unit | d | 0-70 | Annual | Y | Y | Census Housing Data | Census AHS | Census American Housing Survey | 2nd Reference Search String: National Academies analysis of Average Age of Housing Units Compared to Recommended Lifespan
- Housing Units Meeting Energy Efficiency Standards - units compliant per 100 housing units | i | 0-100 | Annual | Y | Y | DOE Residential Energy Data | DOE Residential Energy | ENERGY STAR Residential Efficiency | 2nd Reference Search String: National Academies analysis of Housing Units Meeting Energy Efficiency Standards
- Abandoned and Condemned Residential Buildings - abandoned/condemned structures per 1,000 housing units | d | 0-1,000 | Annual | Y | Y | HUD Housing Condition Data | HUD Housing Data | HUD Housing Market Data | 2nd Reference Search String: National Academies analysis of Abandoned and Condemned Residential Buildings
- Residential Building Violations - citations per 100 housing units | d | 0-100 | Annual | Y | Y | Local Housing Code Enforcement | HUD Housing Data | HUD Regulatory Data Sets | 2nd Reference Search String: National Academies analysis of Residential Building Violations
- Security Incident Rate in Residential Buildings - incidents per 100 housing units | d | 0-100 | Annual | Y | Y | FBI Uniform Crime Reports | FBI UCR | FBI Crime Data Explorer | 2nd Reference Search String: National Academies analysis of Security Incident Rate in Residential Buildings

- Emergency Response Plan Compliance (High-Rise/Complex Housing) - compliant facilities per 100 complexes | i | 0-100 | Annual | Y | Y | Local Fire Code Requirements | NFPA Codes | NFPA Fire Safety Standards | 2nd Reference Search String: National Academies analysis of Emergency Response Plan Compliance (High-Rise/Complex Housing)

## Commercial Buildings

- Commercial Buildings Rated Good or Better - condition assessments per 100 buildings | i | 0-100 | Annual | Y | Y | EPA ENERGY STAR Portfolio Manager | EPA Portfolio Manager | EPA ENERGY STAR Building Performance | 2nd Reference Search String: National Academies analysis of Commercial Buildings Rated Good or Better
- Energy Consumption Per Square Foot - kWh consumed per square foot | d | 0-200 | Annual | Y | Y | DOE CBECS | DOE CBECS | DOE Commercial Building Energy Consumption Survey | 2nd Reference Search String: National Academies analysis of Energy Consumption Per Square Foot
- Commercial Buildings Meeting Accessibility Standards - ADA-compliant buildings per 100 | i | 0-100 | Annual | Y | Y | DOJ ADA Compliance Reports | DOJ ADA | ADA National Network | 2nd Reference Search String: National Academies analysis of Commercial Buildings Meeting Accessibility Standards
- Commercial Building Violations - citations per 100 buildings | d | 0-100 | Annual | Y | Y | EPA Facility Compliance | EPA ECHO | EPA Enforcement and Compliance Data | 2nd Reference Search String: National Academies analysis of Commercial Building Violations
- Security Incident Rate in Commercial Buildings - incidents per 100 buildings | d | 0-100 | Annual | Y | Y | FBI Uniform Crime Reports | FBI UCR | FBI Crime Data Explorer | 2nd Reference Search String: National Academies analysis of Security Incident Rate in Commercial Buildings
- Emergency Response Plan Compliance (Large Complexes) - compliant facilities per 100 complexes | i | 0-100 | Annual | Y | Y | OSHA Emergency Action Plans | OSHA Emergency Preparedness | OSHA Emergency Action Plan Standards | 2nd Reference Search String: National Academies analysis of Emergency Response Plan Compliance (Large Complexes)

- Childcare Facility Compliance Rate (Private) – privately owned childcare facilities meeting all required building, safety, and licensing standards per 100 facilities | i | 0–100 | Annual | Y | Y | State Licensing Agencies / Local Building Inspectors | <https://www.acf.hhs.gov/occ> | 2nd Reference Search String: National Academies analysis of Private Childcare Facility Compliance
- Childcare Facility Safety Violations (Private) – privately owned childcare facilities with safety-related violations per 100 facilities | d | 0–20 | Annual | Y | Y | State Licensing Agencies / Local Building Inspectors | <https://www.acf.hhs.gov/occ> | 2nd Reference Search String: National Academies analysis of Private Childcare Facility Safety Violations

### Industrial Facilities

- Industrial Facilities Meeting Environmental Standards - compliant facilities per 100 | i | 0-100 | Annual | Y | Y | EPA Facility Compliance | EPA ECHO | EPA Enforcement and Compliance Data | 2nd Reference Search String: National Academies analysis of Industrial Facilities Meeting Environmental Standards
- Average Age Compared to Recommended Lifespan (Industrial Facilities) - years beyond recommended lifespan per facility | d | 0-80 | Annual | Y | Y | Census Manufacturing Data | Census Manufacturing | Census Annual Survey of Manufactures | 2nd Reference Search String: National Academies analysis of Average Age Compared to Recommended Lifespan
- Industrial Facilities with Climate Resilience Plans - facilities with plans per 100 | i | 0-100 | Annual | Y | Y | EPA Climate Resilience Tools | EPA ARC-X | EPA Climate Adaptation Resources | 2nd Reference Search String: National Academies analysis of Industrial Facilities with Climate Resilience Plans
- Industrial Facility Violations - citations per 100 facilities | d | 0-100 | Annual | Y | Y | OSHA/EPA Enforcement Data | OSHA Enforcement | EPA Enforcement and Compliance Data | 2nd Reference Search String: National Academies analysis of Industrial Facility Violations
- Security Incident Rate in Industrial Facilities - incidents per 100 facilities | d | 0-100 | Annual | Y | Y | OSHA Safety Data | OSHA Data | OSHA Workplace Safety Data | 2nd Reference Search String: National Academies analysis of Security Incident Rate in Industrial Facilities



- Emergency Response Plan Compliance - compliant facilities per 100 | i | 0-100 | Annual | Y | Y | OSHA Emergency Action Plans | OSHA Emergency Preparedness | OSHA Emergency Action Plan Standards | 2nd Reference Search String: National Academies analysis of Emergency Response Plan Compliance

[!\[\]\(c8d96c8885d3000a912c2582004aed63\_img.jpg\) Back to Index](#)



## Dams and Locks

◆ Effort Ideal: Safe, Reliable, Environmentally Responsible, and Well-Maintained Dams and Locks Supporting Water Management, Navigation, and Energy



### Structural Condition

- Dams Rated Good or Better - condition assessments per 100 dams | i | 0-100 | Annual | Y | Y | ASCE Infrastructure Report Card | ASCE Report Card | USACE Dam Safety Program | 2nd Reference Search String: National Academies analysis of Dams Rated Good or Better
- Average Age of Dams Compared to Recommended Lifespan - years beyond recommended lifespan per dam | d | 0-100 | Annual | Y | Y | USACE National Inventory of Dams | USACE NID | FEMA Dam Safety Program | 2nd Reference Search String: National Academies analysis of Average Age of Dams Compared to Recommended Lifespan
- Locks Rated Good or Better - condition assessments per 100 locks | i | 0-100 | Annual | Y | Y | USACE Lock Performance Data | USACE Navigation | USACE Lock Condition Data | 2nd Reference Search String: National Academies analysis of Locks Rated Good or Better
- Average Age of Locks Compared to Recommended Lifespan - years beyond recommended lifespan per lock | d | 0-80 | Annual | Y | Y | USACE Navigation Data | USACE Navigation | ASCE Infrastructure Report Card | 2nd Reference Search String: National Academies analysis of Average Age of Locks Compared to Recommended Lifespan



### Safety and Risk Management

- High-Hazard Potential Dams - dams classified high-risk per 100 dams | d | 0-100 | Annual | Y | Y | FEMA Dam Safety Program | FEMA Dam Safety | Association of State Dam Safety Officials | 2nd Reference Search String: National Academies analysis of High-Hazard Potential Dams
- Dam Failure Incidents - reported failures per 100 dams | d | 0-100 | Annual | Y | Y | USACE Dam Safety Reports | USACE Dam Safety | Association of State Dam Safety Officials | 2nd Reference Search String: National Academies analysis of Dam Failure Incidents

- Lock Failure or Closure Incidents - accidents or breakdowns per 100 locks | d | 0-100 | Annual | Y | Y | USACE Navigation Safety Data | USACE Navigation | USACE Lock Condition Data | 2nd Reference Search String: National Academies analysis of Lock Failure or Closure Incidents
- Emergency Response Plan Compliance (Dams and Locks) - compliant facilities per 100 | i | 0-100 | Annual | Y | Y | FEMA Dam Safety Guidance | FEMA Dam Safety | FEMA Emergency Preparedness | 2nd Reference Search String: National Academies analysis of Emergency Response Plan Compliance (Dams and Locks)
- Security Incident Rate at Dams and Locks - breaches, sabotage, vandalism per 100 facilities | d | 0-100 | Annual | Y | Y | DHS Critical Infrastructure Security | DHS CISA | CISA Infrastructure Security | 2nd Reference Search String: National Academies analysis of Security Incident Rate at Dams and Locks

#### Energy and Water Management

- Dams Used for Hydropower - hydropower dams per 100 dams | g | 0-100 | Annual | Y | Y | DOE Hydropower Data | DOE Hydropower | DOE Hydropower Market Report | 2nd Reference Search String: National Academies analysis of Dams Used for Hydropower
- Hydropower Generation - MWh generated per dam per year | g | 0-5000000 | Annual | Y | Y | DOE Hydropower Reports | DOE Hydropower | DOE Hydropower Market Report | 2nd Reference Search String: National Academies analysis of Hydropower Generation
- Dams with Flood Control Capacity - flood control dams per 100 dams | g | 0-100 | Annual | Y | Y | USACE Flood Risk Management | USACE Flood Risk | FEMA Flood Risk Management | 2nd Reference Search String: National Academies analysis of Dams with Flood Control Capacity
- Locks Supporting Commercial Navigation - locks supporting commerce per 100 locks | g | 0-100 | Annual | Y | Y | USACE Navigation Data | USACE Navigation | USACE Lock Condition Data | 2nd Reference Search String: National Academies analysis of Locks Supporting Commercial Navigation

#### Environmental Oversight

- Dams with Fish Passage Facilities - facilities with ladders/bypasses per 100 dams | i | 0-100 | Annual | Y | Y | NOAA Fisheries Data | NOAA Fish Passage | NOAA Fish Passage Program | 2nd Reference Search String: National Academies analysis of Dams with Fish Passage Facilities

- Environmental Incident Rate at Dams and Locks - spills/habitat disruptions per 100 facilities | d | 0-100 | Annual | Y | Y | EPA Facility Compliance | EPA ECHO | EPA Enforcement and Compliance Data | 2nd Reference Search String: National Academies analysis of Environmental Incident Rate at Dams and Locks
- Facilities with Climate Resilience Plans (Dams and Locks)- facilities with plans per 100 | i | 0-100 | Annual | Y | Y | EPA Climate Resilience Tools | EPA ARC-X | EPA Climate Adaptation Resources | 2nd Reference Search String: National Academies analysis of Facilities with Climate Resilience Plans

[!\[\]\(21199eb166cc97331a0c54c649195dcc\_img.jpg\) Back to Index](#)

## Agriculture and Forestry

◆ Effort Ideal: Best Agricultural and Forestry Practices Balancing Productivity, Sustainability, Safety, and Long-Term Stewardship

### Farms

- Family vs. Corporate Farms - family vs. corporate share per 100 farms | g | 0-100 | Annual | Y | Y | USDA Census of Agriculture | USDA Ag Census | USDA ERS Farm Structure | 2nd Reference Search String: National Academies analysis of Family vs. Corporate Farms
- Farm Foreclosures - foreclosure cases per 100 farms | d | 0-100 | Annual | Y | Y | USDA Ag Census / State Ag Statistics | USDA Ag Census | USDA ERS Farm Economy | 2nd Reference Search String: National Academies analysis of Farm Foreclosures
- Net Income - average net income per farm per year | i | 0-500000 | Annual | Y | Y | USDA ERS Farm Income Data | USDA ERS | USDA ERS Farm Sector Income Forecast | 2nd Reference Search String: National Academies analysis of Net Income
- Farmers Using Best Management Practices (BMPs) - adoption per 100 farms | i | 0-100 | Annual | Y | Y | USDA NRCS BMP Data | USDA NRCS | USDA NRCS Conservation Practices | 2nd Reference Search String: National Academies analysis of Farmers Using Best Management Practices (BMPs)
- Highly Erodible Land Set Aside - acres set aside per 100 farms | g | 0-100 | Annual | Y | Y | USDA CRP | USDA CRP | USDA ERS Conservation Programs | 2nd Reference Search String: National Academies analysis of Highly Erodible Land Set Aside
- Productivity - crop yield per acre | i | 0-300 | Annual | Y | Y | USDA NASS Crop Reports | USDA NASS | USDA NASS Quick Stats | 2nd Reference Search String: National Academies analysis of Productivity
- Corn Yield - bushels per acre | i | 0-300 | Annual | Y | Y | USDA NASS Crop Reports | USDA NASS | USDA NASS Corn Data | 2nd Reference Search String: National Academies analysis of Corn Yield
- Soybean Yield - bushels per acre | i | 0-100 | Annual | Y | Y | USDA NASS Crop Reports | USDA NASS | USDA NASS Soybean Data | 2nd Reference Search String: National Academies analysis of Soybean Yield

- Wheat Yield - bushels per acre | i | 0-150 | Annual | Y | Y | USDA NASS Crop Reports | USDA NASS | USDA NASS Wheat Data | 2nd Reference Search String: National Academies analysis of Wheat Yield
- Cotton Yield - pounds per acre | i | 0-2000 | Annual | Y | Y | USDA NASS Crop Reports | USDA NASS | USDA NASS Cotton Data | 2nd Reference Search String: National Academies analysis of Cotton Yield
- Runoff Control Practices - adoption per 100 farms | i | 0-100 | Annual | Y | Y | USDA NRCS Programs | USDA NRCS | USDA NRCS Water Quality Practices | 2nd Reference Search String: National Academies analysis of Runoff Control Practices
- Erosion - average tons lost per acre per year | d | 0-20 | Annual | Y | Y | USDA NRI | USDA NRI | USDA NRCS National Resources Inventory | 2nd Reference Search String: National Academies analysis of Erosion
- Chemical Use - fertilizer/pesticide applications per 100 farms | d | 0-100 | Annual | Y | Y | USDA/EPA Ag Data | USDA PDP | EPA Pesticide Data Program | 2nd Reference Search String: National Academies analysis of Chemical Use
- Agricultural Land Lost to Development - acres lost per 100 farms | d | 0-100 | Annual | Y | Y | USDA ERS Land Use Data | USDA ERS | USDA ERS Land Use and Value | 2nd Reference Search String: National Academies analysis of Agricultural Land Lost to Development
- Emergency Response Plan Compliance (Farm Operations) - compliant farms per 100 | i | 0-100 | Annual | Y | Y | USDA Extension Safety Programs | USDA Extension | USDA NIFA Farm Safety | 2nd Reference Search String: National Academies analysis of Emergency Response Plan Compliance (Farm Operations)

#### Cropland

- Sustainable Farming Practices - adoption per 100 farms | i | 0-100 | Annual | Y | Y | USDA Census of Agriculture | USDA Ag Census | USDA ERS Sustainable Agriculture | 2nd Reference Search String: National Academies analysis of Sustainable Farming Practices
- Certified Organic Operations - certified farms per 1,000 farms | g | 0-1000 | Annual | Y | Y | USDA Organic Data | USDA Organic | USDA Organic Integrity Database | 2nd Reference Search String: National Academies analysis of Certified Organic Operations

- Cropland Minimizing Soil Disturbance - adoption per 100 farms | i | 0-100 | Annual | Y | Y | USDA NRCS Programs | USDA NRCS | USDA NRCS Soil Health Practices | 2nd Reference Search String: National Academies analysis of Cropland Minimizing Soil Disturbance
- Integrated Pest Management (IPM) Practices - adoption per 100 farms | i | 0-100 | Annual | Y | Y | USDA IPM Data | USDA IPM | USDA NIFA IPM Program | 2nd Reference Search String: National Academies analysis of Integrated Pest Management (IPM) Practices
- Pesticide/Herbicide Use - applications per 100 farms | d | 0-100 | Annual | Y | Y | USDA PDP | USDA PDP | EPA Pesticide Data Program | 2nd Reference Search String: National Academies analysis of Pesticide/Herbicide Use
- Crop Toxicity Incidents - reported cases per 100 farms | d | 0-100 | Annual | Y | Y | USDA/FDA Crop Safety Reports | FDA Food Safety | FDA Foodborne Illness Data | 2nd Reference Search String: National Academies analysis of Crop Toxicity Incidents
- Crop Diversity Index - average number of distinct crops per farm | g | 0-10 | Annual | Y | Y | USDA NASS Crop Data | USDA NASS | USDA NASS Quick Stats | 2nd Reference Search String: National Academies analysis of Crop Diversity Index

#### Grazing Land

- Grazing Land Under Best Management Practices - adoption per 100 farms | i | 0-100 | Annual | Y | Y | USDA NRCS Grazing Data | USDA NRCS | USDA NRCS Grazing Practices | 2nd Reference Search String: National Academies analysis of Grazing Land Under Best Management Practices
- Practices Minimizing Soil Disturbance - adoption per 100 farms | i | 0-100 | Annual | Y | Y | USDA NRCS Programs | USDA NRCS | USDA NRCS Soil Health Practices | 2nd Reference Search String: National Academies analysis of Practices Minimizing Soil Disturbance
- Hormone/Antibiotic/Pesticide/Herbicide Use - applications per 100 farms | d | 0-100 | Annual | Y | Y | USDA/FDA Livestock Data | USDA Livestock | FDA Animal Drug Residue Data | 2nd Reference Search String: National Academies analysis of Hormone/Antibiotic/Pesticide/Herbicide Use
- Meat Toxicity Incidents - residue violations per 100 farms | d | 0-100 | Annual | Y | Y | USDA FSIS | USDA FSIS | USDA FSIS Residue Violations Data | 2nd Reference Search String: National Academies analysis of Meat Toxicity Incidents

## Forests

- Forests with Management Plans - coverage per 100 forests | i | 0-100 | Annual | Y | Y | USDA Forest Service | USFS | USFS Forest Management Plans | 2nd Reference Search String: National Academies analysis of Forests with Management Plans
- Forests Under Best Management Practices - adoption per 100 forests | i | 0-100 | Annual | Y | Y | USDA Forest Service BMP Data | USFS BMP | USFS Best Management Practices | 2nd Reference Search String: National Academies analysis of Forests Under Best Management Practices
- Logging Operations Using Best Practices - compliance per 100 operations | i | 0-100 | Annual | Y | Y | USDA Forest Service / State Forestry Agencies | USFS Logging | USFS Logging Practices | 2nd Reference Search String: National Academies analysis of Logging Operations Using Best Practices
- Acreage Lost to Blight, Arson, Development, Mining - acres lost per 100 forests | d | 0-100 | Annual | Y | Y | USDA FIA | USFS FIA | USFS Forest Inventory and Analysis | 2nd Reference Search String: National Academies analysis of Acreage Lost to Blight, Arson, Development, Mining
- Acreage Needing Reforestation - acres needing replanting per 100 forests | g | 0-100 | Annual | Y | Y | USDA Forest Service | USFS Reforestation | USFS Reforestation Programs | 2nd Reference Search String: National Academies analysis of Acreage Needing Reforestation
- Acreage Reforested - acres replanted per 100 forests | g | 0-100 | Annual | Y | Y | USDA Forest Service | USFS Reforestation | USFS Reforestation Programs | 2nd Reference Search String: National Academies analysis of Acreage Reforested
- Pesticide/Herbicide Use in Forests - applications per 100 forests | d | 0-100 | Annual | Y | Y | USDA Forest Service / EPA Forestry Data | EPA Forestry | EPA Pesticides and Forests | 2nd Reference Search String: National Academies analysis of Pesticide/Herbicide Use in Forests
- Old Growth Forests Protected - coverage per 100 forests | i | 0-100 | Annual | Y | Y | USDA Forest Service / NPS | NPS Forests | NPS Old Growth Forest Protection | 2nd Reference Search String: National Academies analysis of Old Growth Forests Protected



- Communities with Forest Programs - adoption per 100 communities | i | 0-100 | Annual | Y | Y | USDA Urban & Community Forestry Program | USDA Urban Forestry | USDA Urban & Community Forestry | 2nd Reference Search String: National Academies analysis of Communities with Forest Programs
- Communities with Tree City Certification - recognition per 100 communities | i | 0-100 | Annual | Y | Y | Arbor Day Foundation Tree City USA | Tree City USA | Arbor Day Foundation Tree City USA | 2nd Reference Search String: National Academies analysis of Communities with Tree City Certification

#### Farmer Practices and Wellbeing

- Farmer Training Participation - attendance per 100 farmers | i | 0-100 | Annual | Y | Y | USDA Extension Services | USDA Extension | USDA NIFA Farmer Training | 2nd Reference Search String: National Academies analysis of Farmer Training Participation
- Average Age of Farmers - age per farmer | d | 0-80 | Annual | Y | Y | USDA Census of Agriculture | USDA Ag Census | USDA Census of Agriculture Demographics | 2nd Reference Search String: National Academies analysis of Average Age of Farmers
- Participation in Conservation Programs - enrollment per 100 farms | i | 0-100 | Annual | Y | Y | USDA NRCS Programs | USDA NRCS | USDA NRCS Conservation Programs | 2nd Reference Search String: National Academies analysis of Participation in Conservation Programs
- Emergency Response Plan Compliance (Farm Safety) - compliant farms per 100 | i | 0-100 | Annual | Y | Y | USDA Extension Safety Programs | USDA Extension | USDA NIFA Farm Safety | 2nd Reference Search String: National Academies analysis of Emergency Response Plan Compliance (Farm Safety)

#### Land and Resource Use

- Farmland Under Conservation Easement - acres under easement per 1,000 farms | g | 0-1,000 | Annual | Y | Y | USDA NRCS Easements Program | USDA Easements | USDA NRCS Easement Programs | 2nd Reference Search String: National Academies analysis of Farmland Under Conservation Easement
- Irrigated Land Share - irrigated acres per 100 farms | i | 0-100 | Annual | Y | Y | USDA NASS Irrigation Data | USDA NASS | USDA NASS Irrigation Reports | 2nd Reference Search String: National Academies analysis of Irrigated Land Share

- Soil Erosion Rate - tons of soil lost per acre | d | 0-20 | Annual | Y | Y | USDA NRI | USDA NRI | USDA NRCS National Resources Inventory | 2nd Reference Search String: National Academies analysis of Soil Erosion Rate
- Water Runoff Control Practices - adoption per 100 farms | i | 0-100 | Annual | Y | Y | USDA NRCS Programs | USDA NRCS | USDA NRCS Water Quality Practices | 2nd Reference Search String: National Academies analysis of Water Runoff Control Practices

[←](#) Back to Index

## Digital Infrastructure / Telecommunications

◆ Effort Ideal: Universal, Affordable, High-Quality, Secure Digital Connectivity Enabling Full Participation in Economic, Civic, Educational, and Social Life

### Broadband Access & Affordability

- Household Broadband Availability - households with access to fixed broadband  $\geq 100$  Mbps per 100 households | i | 0-100 | Annual | Y | Y | FCC Broadband Data Collection | <https://broadbandmap.fcc.gov/> | <https://www.ntia.gov/> | 2nd Reference Search String: National Academies analysis of Household Broadband Availability
- Household Broadband Adoption - households subscribing to broadband  $\geq 100$  Mbps per 100 households | i | 0-100 | Annual | Y | Y | Census ACS Internet Access | <https://www.census.gov/> | <https://www.pewresearch.org/> | 2nd Reference Search String: National Academies analysis of Household Broadband Adoption
- Broadband Affordability Burden - average monthly broadband cost per \$1,000 household income | d | 0-200 | Annual | Y | Y | BLS Consumer Expenditure Survey | <https://www.bls.gov/> | <https://www.oecd.org/> | 2nd Reference Search String: National Academies analysis of Broadband Affordability Burden
- Low-Income Broadband Access - low-income households with broadband per 100 low-income households | i | 0-100 | Annual | Y | Y | Census ACS / FCC ACP Data | <https://www.fcc.gov/acp> | <https://www.urban.org/> | 2nd Reference Search String: National Academies analysis of Low-Income Broadband Access

### Network Quality & Reliability

- Average Broadband Speed - median download speed per 1 resident (Mbps per resident) | i | 0-1000 | Annual | Y | Y | Ookla Speedtest Intelligence | <https://www.speedtest.net/> | <https://www.fcc.gov/> | 2nd Reference Search String: National Academies analysis of Average Broadband Speed
- Network Outage Duration - outage hours per 1,000 broadband subscribers | d | 0-500 | Annual | Y | Y | FCC NORS | <https://www.fcc.gov/> | <https://uptimeinstitute.com/> | 2nd Reference Search String: National Academies analysis of Network Outage Duration
- Latency Performance - average latency (ms) per 1 resident | d | 0-200 | Annual | Y | Y | Ookla / M-Lab | <https://www.measurementlab.net/> | <https://www.fcc.gov/> | 2nd Reference Search String: National Academies analysis of Latency Performance

## Telecommunications Infrastructure

- 5G Coverage - population covered by 5G per 100 residents | i | 0-100 | Annual | Y | Y | FCC Mobile Deployment Data | <https://www.fcc.gov/> | <https://www.gsma.com/> | 2nd Reference Search String: National Academies analysis of 5G Coverage
- Fiber Deployment - fiber-to-the-premises availability per 100 households | i | 0-100 | Annual | Y | Y | FCC Broadband Data Collection | <https://broadbandmap.fcc.gov/> | <https://www.fiberbroadband.org/> | 2nd Reference Search String: National Academies analysis of Fiber Deployment
- Public Wi-Fi Access Points - public Wi-Fi locations per 1,000 residents | i | 0-50 | Annual | Y | Y | NTIA / Local Government Data | <https://www.ntia.gov/> | <https://www.pewresearch.org/> | 2nd Reference Search String: National Academies analysis of Public Wi-Fi Access Points

## Public-Facing Digital Harm & Safety

- Online Fraud Incidents - reported digital fraud cases per 1,000 residents | d | 0-50 | Annual | Y | Y | FBI IC3 | <https://www.ic3.gov/> | <https://www.ftc.gov/> | 2nd Reference Search String: National Academies analysis of Online Fraud Incidents
- Financial Loss from Online Scams - dollars lost to digital scams per 1,000 residents | d | 0-500000 | Annual | Y | Y | FBI IC3 | <https://www.ic3.gov/> | <https://www.ftc.gov/> | 2nd Reference Search String: National Academies analysis of Financial Loss from Online Scams
- Identity Theft Incidents - identity theft reports per 1,000 residents | d | 0-50 | Annual | Y | Y | FTC Consumer Sentinel | <https://www.ftc.gov/> | <https://www.fbi.gov/> | 2nd Reference Search String: National Academies analysis of Identity Theft Incidents
- Child Exploitation Cyber Tips - cyber tips involving child exploitation per 1,000 minors | d | 0-50 | Annual | Y | Y | NCMEC CyberTipline | <https://www.missingkids.org/> | <https://www.justice.gov/> | 2nd Reference Search String: National Academies analysis of Child Exploitation Cyber Tips
- Online Grooming Reports - reports of online grooming per 1,000 minors | d | 0-20 | Annual | Y | Y | NCMEC / DOJ | <https://www.missingkids.org/> | <https://www.justice.gov/> | 2nd Reference Search String: National Academies analysis of Online Grooming Reports

- Digital Harassment & Abuse Reports - reported digital harassment cases per 1,000 residents | d | 0-50 | Annual | Y | Y | FBI / State AGs | <https://www.fbi.gov/> | <https://www.pewresearch.org/> | 2nd Reference Search String: National Academies analysis of Digital Harassment & Abuse Reports

#### Private-Sector Cyber Incidents & Economic Consequences

- Business Cyber Intrusions - reported cyber intrusions per 1,000 firms | d | 0-200 | Annual | Y | Y | FBI IC3 / Private Cyber Firms | <https://www.ic3.gov/> | <https://www.ibm.com/> | 2nd Reference Search String: National Academies analysis of Business Cyber Intrusions
- Ransomware Incidents - ransomware attacks per 1,000 firms | d | 0-50 | Annual | Y | Y | FBI / Cybersecurity Firms | <https://www.fbi.gov/> | <https://www.sophos.com/> | 2nd Reference Search String: National Academies analysis of Ransomware Incidents
- Data Breach Exposure - number of breached records per 1,000 residents | d | 0-50000 | Annual | Y | Y | Privacy Rights Clearinghouse | <https://privacyrights.org/> | <https://www.ibm.com/> | 2nd Reference Search String: National Academies analysis of Data Breach Exposure
- Business Downtime from Cyber Incidents - downtime hours per 1,000 firms | d | 0-500 | Annual | Y | Y | Uptime Institute / Cyber Insurers | <https://uptimeinstitute.com/> | <https://www.naic.org/> | 2nd Reference Search String: National Academies analysis of Business Downtime from Cyber Incidents
- Private-Sector Cyber Readiness Score - composite cybersecurity readiness score per 100 firms | g | 0-100 | Annual | Y | Y | NIST / Cybersecurity Firms | <https://www.nist.gov/> | <https://www.verizon.com/business/resources/reports/dbir/> | 2nd Reference Search String: National Academies analysis of Private-Sector Cyber Readiness Score

#### Public-Sector Cyber Readiness & Resilience

- Public-Sector Cyber Workforce Capacity - cybersecurity professionals per 1,000 public employees | i | 0-20 | Annual | Y | Y | BLS / CyberSeek | <https://www.cyberseek.org/> | <https://www.cisa.gov/> | 2nd Reference Search String: National Academies analysis of Public-Sector Cyber Workforce Capacity
- Government Cyber Readiness Score - composite cybersecurity readiness score per 100 | g | 0-100 | Annual | Y | Y | CISA / NIST | <https://www.cisa.gov/> | <https://www.nist.gov/> | 2nd Reference Search String: National Academies analysis of Government Cyber Readiness Score

- Public-Sector Incident Response Time - average hours to contain cyber incidents per 1 incident | d | 0-200 | Annual | Y | Y | CISA / State CIO Offices | <https://www.cisa.gov/> | <https://www.nasca.org/> | 2nd Reference Search String: National Academies analysis of Public-Sector Incident Response Time
- Government System Outage Duration - outage hours per 1,000 public-sector devices | d | 0-500 | Annual | Y | Y | State IT Offices / CISA | <https://www.cisa.gov/> | <https://www.nasca.org/> | 2nd Reference Search String: National Academies analysis of Government System Outage Duration

#### Digital Equity & Inclusion

- Digital Skills Proficiency - adults with basic digital skills per 100 adults | i | 0-100 | Annual | Y | Y | OECD PIAAC / NTIA Digital Nation | <https://www.ntia.gov/> | <https://www.oecd.org/> | 2nd Reference Search String: National Academies analysis of Digital Skills Proficiency
- Device Access - households with a computer or smart device per 100 households | i | 0-100 | Annual | Y | Y | Census ACS | <https://www.census.gov/> | <https://www.pewresearch.org/> | 2nd Reference Search String: National Academies analysis of Device Access
- Digital Inclusion Index - composite digital inclusion score per 100 index-units | i | 0-100 | Annual | Y | Y | NDIA Digital Inclusion Index | <https://www.digitalinclusion.org/> | <https://www.brookings.edu/> | 2nd Reference Search String: National Academies analysis of Digital Inclusion Index

 [Back to Index](#)

## Rural Development

◆ Effort Ideal: Thriving, resilient rural communities with equitable access to essential services, strong local economies, sustainable land stewardship, and the infrastructure needed for long-term well-being.

### Rural Population & Community Vitality

- Community Services Access – households within 10 miles of essential services per 100 households | i | 0–100 | Annual | Y | Y | USDA / Local Government Data | <https://www.usda.gov/> | 2nd Reference Search String: National Academies analysis of Rural Community Services Access
- Proximity to K–12 Education – rural households within 15 minutes of a K–12 school per 100 households | i | 0–100 | Annual | Y | Y | Local Education Agencies | <https://www.ed.gov/> | 2nd Reference Search String: National Academies analysis of Rural School Access
- Transportation Access – households within 5 miles of public or community transit per 100 households | i | 0–100 | Annual | Y | Y | DOT | <https://www.transportation.gov/> | 2nd Reference Search String: National Academies analysis of Rural Transportation Access
- Rural Older Adult Share – adults age 65+ per 100 rural residents | d | 0–60 | Annual | Y | Y | Census ACS | <https://www.census.gov/> | 2nd Reference Search String: National Academies analysis of Rural Aging
- Rural Outmigration Rate – residents leaving rural counties per 1,000 residents | d | 0–100 | Annual | Y | Y | Census ACS Migration Flows | <https://www.census.gov/> | 2nd Reference Search String: National Academies analysis of Rural Outmigration
- Rural Population Change – net population change per 1,000 rural residents | i | -50–50 | Annual | Y | Y | Census Population Estimates | <https://www.census.gov/> | 2nd Reference Search String: National Academies analysis of Rural Population Change
- Civic Capacity Index – composite index of active civic, faith-based, and community organizations per 1,000 rural residents | g | 0–100 | Annual | Y | Y | Local Government / Nonprofit Registries | <https://www.usa.gov/nonprofits> | 2nd Reference Search String: National Academies analysis of Rural Civic Capacity
- Community Event Participation – attendance at community events per 100 rural residents | i | 0–300 | Annual | Y | Y | Local Government / Nonprofit Event Records | <https://www.usa.gov/nonprofits> | 2nd Reference Search String: National Academies analysis of Rural Community Participation

## Rural Economic Strength

- Access to Rural Banking & Financial Services – rural households within 10 miles of a bank or credit union per 100 households | i | 0–100 | Annual | Y | Y | FDIC / NCUA | <https://www.fdic.gov/> | 2nd Reference Search String: National Academies analysis of Rural Banking Deserts
- Agricultural Economic Output – agricultural GDP per 1,000 rural residents | i | 0–50000 | Annual | Y | Y | USDA ERS | <https://www.ers.usda.gov/> | 2nd Reference Search String: National Academies analysis of Agricultural Economic Output
- Food Access in Rural Communities – rural households within 10 miles of a full-service grocery store per 100 households | i | 0–100 | Annual | Y | Y | USDA ERS Food Access Research | <https://www.ers.usda.gov/> | 2nd Reference Search String: National Academies analysis of Rural Food Deserts
- Proximity to Employment Centers – rural workers within 10 miles of major employment clusters per 100 workers | i | 0–100 | Annual | Y | Y | DOT / Census LODES | <https://www.transportation.gov/> | 2nd Reference Search String: National Academies analysis of Rural Job Proximity
- Childcare Availability in Rural Areas – licensed childcare slots per 100 rural children under age 5 | i | 0–150 | Annual | Y | Y | State Childcare Registries / HHS | <https://www.acf.hhs.gov/> | 2nd Reference Search String: National Academies analysis of Rural Childcare Access
- Migrant Worker Share – migrant or seasonal agricultural workers per 100 rural workers | d | 0–50 | Annual | Y | Y | USDA / DOL National Agricultural Workers Survey | <https://www.dol.gov/> | 2nd Reference Search String: National Academies analysis of Migrant Agricultural Workers
- Non-Migrant Farm Worker Age – median age of non-migrant agricultural workers | d | 20–70 | Annual | Y | Y | USDA Census of Agriculture / BLS OES | <https://www.nass.usda.gov/> | 2nd Reference Search String: National Academies analysis of Aging Agricultural Workforce
- Rural Child Poverty Rate – children below poverty per 100 rural children | d | 0–100 | Annual | Y | Y | Census ACS | <https://www.census.gov/> | 2nd Reference Search String: National Academies analysis of Rural Child Poverty



- Rural Employment Rate – employed adults per 100 rural adults | i | 0–100 | Annual | Y | Y | BLS LAUS | <https://www.bls.gov/> | 2nd Reference Search String: National Academies analysis of Rural Employment
- Rural Poverty Rate – rural residents below poverty per 100 rural residents | d | 0–100 | Annual | Y | Y | Census ACS | <https://www.census.gov/> | 2nd Reference Search String: National Academies analysis of Rural Poverty
- Small Business Density – small businesses per 1,000 rural residents | i | 0–50 | Annual | Y | Y | Census Business Dynamics | <https://www.census.gov/> | 2nd Reference Search String: National Academies analysis of Rural Small Business Density
- Transportation Cost Burden in Rural Areas – average annual transportation cost as percent of household income for rural households | d | 0–50 | Annual | Y | Y | BLS Consumer Expenditure Survey / DOT | <https://www.bls.gov/> | 2nd Reference Search String: National Academies analysis of Rural Transportation Cost Burden

#### Rural Housing & Built Environment

- Affordable Housing Availability – affordable units per 100 low-income rural households | i | 0–100 | Annual | Y | Y | HUD CHAS | <https://www.hud.gov/> | 2nd Reference Search String: National Academies analysis of Rural Affordable Housing
- Rural Housing Quality Index – composite housing quality score per 100 index-units | i | 0–100 | Annual | Y | Y | HUD / Census ACS | <https://www.hud.gov/> | 2nd Reference Search String: National Academies analysis of Rural Housing Quality
- Rural Rental Cost Burden – renter households spending ≥30% of income on rent per 100 rural renter households | d | 0–100 | Annual | Y | Y | HUD CHAS | <https://www.hud.gov/> | 2nd Reference Search String: National Academies analysis of Rural Rental Burden
- Rural Homeownership Rate – owner-occupied rural housing units per 100 rural households | i | 0–100 | Annual | Y | Y | Census ACS | <https://www.census.gov/> | 2nd Reference Search String: National Academies analysis of Rural Homeownership
- Building Materials Proximity & Availability – rural households within 15 miles of a building materials supplier per 100 households | i | 0–100 | Annual | Y | Y | Local Business Registries / USDA | <https://www.usda.gov/> | 2nd Reference Search String: National Academies analysis of Rural Building Materials Access

- Skilled Construction & Repair Labor Availability – licensed or certified construction and repair tradespeople per 1,000 rural residents | i | 0–50 | Annual | Y | Y | State Licensing Boards / BLS OES | <https://www.bls.gov/> | 2nd Reference Search String: National Academies analysis of Rural Skilled Trades Availability

#### Rural Infrastructure & Services


- Advanced EMS Coverage – rural population served by ALS-capable ambulance units per 100 residents | i | 0–100 | Annual | Y | Y | State EMS Registries | <https://www.ems.gov/> | 2nd Reference Search String: National Academies analysis of Rural EMS Access
- Proximity to Hospital – rural residents within 30 minutes of a hospital per 100 residents | i | 0–100 | Annual | Y | Y | HRSA | <https://www.hrsa.gov/> | 2nd Reference Search String: National Academies analysis of Rural Hospital Access
- Rural Health Care Access – rural residents within 30 minutes of a primary care provider per 100 residents | i | 0–100 | Annual | Y | Y | HRSA / CDC | <https://www.hrsa.gov/> | 2nd Reference Search String: National Academies analysis of Rural Health Access
- Mental Health Service Access – rural residents within 30 minutes of a mental health provider per 100 residents | i | 0–100 | Annual | Y | Y | HRSA / SAMHSA | <https://www.samhsa.gov/> | 2nd Reference Search String: National Academies analysis of Rural Mental Health Access
- Rural Broadband Availability – rural households with broadband  $\geq 100$  Mbps per 100 rural households | i | 0–100 | Annual | Y | Y | FCC Broadband Data Collection | <https://broadbandmap.fcc.gov/> | 2nd Reference Search String: National Academies analysis of Rural Broadband
- Rural Power Reliability – average annual outage hours per rural customer | d | 0–200 | Annual | Y | Y | EIA / Utility Data | <https://www.eia.gov/> | 2nd Reference Search String: National Academies analysis of Rural Power Reliability
- Fire & Emergency Response Time – average emergency response time in minutes for rural fire and EMS incidents | d | 0–60 | Annual | Y | Y | Local Fire / EMS Records | <https://www.usfa.fema.gov/> | 2nd Reference Search String: National Academies analysis of Rural Emergency Response
- Law Enforcement Staffing Adequacy – sworn law enforcement officers per 1,000 rural residents compared to recommended staffing benchmarks | i | 0–3 | Annual | Y | Y | Local Sheriff / State Police Data | <https://www.bjs.gov/> | 2nd Reference Search String: National Academies analysis of Rural Law Enforcement Staffing

- Law Enforcement Response Time – average minutes from 911 call to officer arrival for rural incidents | d | 0–60 | Annual | Y | Y | Local Sheriff / State Police Data | <https://www.bjs.gov/> | 2nd Reference Search String: National Academies analysis of Rural Law Enforcement Response
- Rural Crime Resolution Rate – reported rural crimes resulting in case closure per 100 reported incidents | i | 0–100 | Annual | Y | Y | Local Sheriff / State Police Data | <https://www.bjs.gov/> | 2nd Reference Search String: National Academies analysis of Rural Crime Resolution Rates
- Rural Wastewater System Reliability – wastewater system failures per 1,000 rural households | d | 0–200 | Annual | Y | Y | EPA / USDA | <https://www.epa.gov/> | 2nd Reference Search String: National Academies analysis of Rural Wastewater Systems
- Rural Water System Reliability – unplanned water service interruptions per 1,000 rural households | d | 0–200 | Annual | Y | Y | EPA / USDA | <https://www.epa.gov/> | 2nd Reference Search String: National Academies analysis of Rural Water Systems
- Rural Water Main Diameter Adequacy – proportion of rural water distribution lines meeting minimum 6–8 inch diameter standards for firefighting per 100 miles of water mains | i | 0–100 | Annual | Y | Y | Local Water Utilities / USDA Rural Utilities Service | <https://www.rd.usda.gov/> | 2nd Reference Search String: National Academies analysis of Rural Water Infrastructure for Fire Protection
- Wells With Serious Water Quality Problems – private wells exceeding one or more primary drinking water standards per 100 rural wells | d | 0–100 | Annual | Y | Y | EPA / USGS | <https://www.epa.gov/> | 2nd Reference Search String: National Academies analysis of Rural Well Water Quality

#### Land Use, Agriculture & Environmental Stewardship

- Agricultural Chemical Exposure Risk – rural residents or workers with modeled exposure above health-based thresholds per 100 rural residents | d | 0–50 | Annual | Y | Y | EPA / CDC / USDA | <https://www.epa.gov/> | 2nd Reference Search String: National Academies analysis of Rural Pesticide Exposure
- Rural Environmental Quality Index – composite environmental quality score per 100 index-units | g | 0–100 | Annual | Y | Y | EPA / USDA | <https://www.epa.gov/> | 2nd Reference Search String: National Academies analysis of Rural Environmental Quality

- Farmland Loss Rate – acres of farmland lost per 1,000 rural acres | d | 0–50 | Annual | Y | Y | USDA NASS | <https://www.nass.usda.gov/> | 2nd Reference Search String: National Academies analysis of Farmland Loss
- Farmland Preservation Rate – acres of farmland preserved per 1,000 rural acres | i | 0–50 | Annual | Y | Y | USDA NRCS | <https://www.nrcs.usda.gov/> | 2nd Reference Search String: National Academies analysis of Farmland Preservation
- Sustainable Agriculture Adoption – farms using sustainable practices per 100 farms | i | 0–100 | Annual | Y | Y | USDA Census of Agriculture | <https://www.nass.usda.gov/> | 2nd Reference Search String: National Academies analysis of Sustainable Agriculture

 [Back to Index](#)

## Aging & Long Term Care

◆ Effort Ideal: Older adults live with dignity, independence, safety, and meaningful connection, supported by accessible long-term services, age-friendly communities, and a well-prepared caregiving workforce.

### Older Adult Population & Demographics

- Older Adult Share – adults age 65+ per 100 residents | d | 0–40 | Annual | Y | Y | Census ACS | <https://www.census.gov/> | 2nd Reference Search String: National Academies analysis of Aging Demographics
- Oldest-Old Share – adults age 85+ per 100 adults age 65+ | d | 0–30 | Annual | Y | Y | Census ACS | <https://www.census.gov/> | 2nd Reference Search String: National Academies analysis of Oldest-Old Population
- Aging Dependency Ratio – adults age 65+ per 100 working-age adults | d | 0–80 | Annual | Y | Y | Census ACS | <https://www.census.gov/> | 2nd Reference Search String: National Academies analysis of Aging Dependency

### Aging in Place & Community Supports

- Home Accident Rate Among Older Adults – emergency-treated home accidents per 100 older adults | d | 0–50 | Annual | Y | Y | CDC Injury Surveillance | <https://www.cdc.gov/> | 2nd Reference Search String: National Academies analysis of Home Accidents Among Older Adults
- Home Modification Cost Burden – average cost of essential aging-in-place home modifications as percent of median older-adult household income | d | 0–50 | Annual | Y | Y | Local Contractor Data / AARP Surveys | <https://www.aarp.org/> | 2nd Reference Search String: National Academies analysis of Home Modification Costs
- Proximity to Senior Centers – older adults within 15 minutes of a senior center per 100 older adults | i | 0–100 | Annual | Y | Y | Local Government / AOA | <https://acl.gov/> | 2nd Reference Search String: National Academies analysis of Senior Center Access
- Home Modification Availability – households with access to certified aging-in-place contractors per 1,000 older adults | i | 0–50 | Annual | Y | Y | State Licensing Boards | <https://www.nahb.org/> | 2nd Reference Search String: National Academies analysis of Aging-in-Place Supports

- Transportation Access for Older Adults – older adults with access to age-friendly or demand-response transit per 100 older adults | i | 0–100 | Annual | Y | Y | DOT / Local Transit Agencies | <https://www.transportation.gov/> | 2nd Reference Search String: National Academies analysis of Senior Transportation
- Older Adult Social Isolation Index – composite index of social connectedness, frequency of interaction, and community engagement per 100 index-units | d | 0–100 | Annual | Y | Y | CDC / AARP / Local Surveys | <https://www.cdc.gov/> | 2nd Reference Search String: National Academies analysis of Social Isolation Among Older Adults
- Older Adults Living Alone – older adults living alone per 100 older adults | d | 0–60 | Annual | Y | Y | Census ACS | <https://www.census.gov/> | 2nd Reference Search String: National Academies analysis of Older Adults Living Alone



#### Long-Term Services & Supports (LTSS)

- Home- and Community-Based Services Availability – HCBS providers per 1,000 older adults | i | 0–50 | Annual | Y | Y | State Medicaid Agencies | <https://www.medicaid.gov/> | 2nd Reference Search String: National Academies analysis of HCBS Access
- Nursing Home Bed Availability – certified nursing home beds per 1,000 adults age 75+ | i | 0–200 | Annual | Y | Y | CMS Nursing Home Compare | <https://www.cms.gov/> | 2nd Reference Search String: National Academies analysis of Nursing Home Capacity
- Assisted Living Availability – licensed assisted living units per 1,000 adults age 75+ | i | 0–200 | Annual | Y | Y | State Licensing Agencies | <https://acl.gov/> | 2nd Reference Search String: National Academies analysis of Assisted Living Access
- LTSS Workforce Availability – direct care workers per 100 adults age 75+ | i | 0–50 | Annual | Y | Y | BLS OES | <https://www.bls.gov/> | 2nd Reference Search String: National Academies analysis of Direct Care Workforce
- Assisted Living Affordability Index – proportion of older adults able to afford median assisted living costs without Medicaid per 100 older adults | i | 0–100 | Annual | Y | Y | Genworth Cost of Care Survey | <https://www.genworth.com/> | 2nd Reference Search String: National Academies analysis of Assisted Living Affordability
- Assisted Living Standards Compliance – assisted living facilities meeting state staffing, safety, and training standards per 100 facilities | i | 0–100 | Annual | Y | Y | State Licensing Agencies | <https://acl.gov/> | 2nd Reference Search String: National Academies analysis of Assisted Living Standards

- Confirmed Abuse or Neglect in Long-Term Care Facilities – substantiated abuse or neglect cases per 1,000 long-term care residents | d | 0–50 | Annual | Y | Y | State Long-Term Care Ombudsman Programs | <https://acl.gov/> | 2nd Reference Search String: National Academies analysis of LTC Abuse and Neglect

### Caregiving & Family Supports

- Family Caregiver Prevalence – adults providing unpaid care to an older adult per 100 adults | i | 0–40 | Annual | Y | Y | AARP / National Caregiving Surveys | <https://www.aarp.org/> | 2nd Reference Search String: National Academies analysis of Family Caregiving
- Caregiver Burden Index – composite index of time, financial strain, and support availability per 100 index-units | d | 0–100 | Annual | Y | Y | National Caregiving Surveys | <https://www.caregiver.org/> | 2nd Reference Search String: National Academies analysis of Caregiver Burden
- Respite Care Availability – respite care slots per 1,000 family caregivers | i | 0–50 | Annual | Y | Y | State Aging Agencies | <https://acl.gov/> | 2nd Reference Search String: National Academies analysis of Respite Care Access

### Health Access & Age-Friendly Systems

- Proximity to Primary Care for Older Adults – older adults within 30 minutes of a primary care provider per 100 older adults | i | 0–100 | Annual | Y | Y | HRSA | <https://www.hrsa.gov/> | 2nd Reference Search String: National Academies analysis of Primary Care Access for Older Adults
- Proximity to Hospital-Level Services for Older Adults – older adults within 30 minutes of a hospital per 100 older adults | i | 0–100 | Annual | Y | Y | HRSA | <https://www.hrsa.gov/> | 2nd Reference Search String: National Academies analysis of Hospital Access for Older Adults
- Ambulance Response Time for Older Adult Emergencies – average minutes from emergency call to EMS arrival for older adult incidents | d | 0–60 | Annual | Y | Y | Local EMS / State EMS Registries | <https://www.ems.gov/> | 2nd Reference Search String: National Academies analysis of EMS Response for Older Adults
- Proximity to Geriatric Care – older adults within 30 minutes of a geriatric specialist per 100 older adults | i | 0–100 | Annual | Y | Y | HRSA / AAMC | <https://www.aamc.org/> | 2nd Reference Search String: National Academies analysis of Geriatric Workforce


- Age-Friendly Health System Penetration – hospitals or clinics certified as age-friendly per 100 health facilities | i | 0–100 | Annual | Y | Y | Institute for Healthcare Improvement | <https://www.ihl.org/> | 2nd Reference Search String: National Academies analysis of Age-Friendly Health Systems
- Telehealth Access for Older Adults – older adults with broadband and device access sufficient for telehealth per 100 older adults | i | 0–100 | Annual | Y | Y | FCC / Local Surveys | <https://www.fcc.gov/> | 2nd Reference Search String: National Academies analysis of Telehealth Access for Seniors
- Older Adult Digital Engagement – older adults using broadband for essential online tasks (bill pay, banking, shopping, communication) per 100 older adults | i | 0–100 | Annual | Y | Y | Pew Research Center | <https://www.pewresearch.org/> | 2nd Reference Search String: National Academies analysis of Digital Engagement Among Older Adults
- Driving Cessation Among Older Adults – older adults who have stopped driving per 100 older adults | d | 0–60 | Annual | Y | Y | CDC / Local Transportation Surveys | <https://www.cdc.gov/> | 2nd Reference Search String: National Academies analysis of Driving Cessation Among Older Adults
- Mobility Limitation Prevalence – older adults reporting difficulty walking, climbing stairs, or transferring per 100 older adults | d | 0–60 | Annual | Y | Y | CDC BRFSS | <https://www.cdc.gov/> | 2nd Reference Search String: National Academies analysis of Mobility Limitations in Older Adults
- Advance Care Planning Completion Rate – older adults with documented advance directives per 100 older adults | i | 0–100 | Annual | Y | Y | State Health Departments / AARP | <https://www.aarp.org/> | 2nd Reference Search String: National Academies analysis of Advance Care Planning
- Hospice Availability – hospice programs per 1,000 adults age 75+ | i | 0–20 | Annual | Y | Y | CMS Hospice Compare | <https://www.cms.gov/> | 2nd Reference Search String: National Academies analysis of Hospice Access
- Palliative Care Program Penetration – hospitals with palliative care programs per 100 hospitals | i | 0–100 | Annual | Y | Y | CAPC | <https://www.capc.org/> | 2nd Reference Search String: National Academies analysis of Palliative Care Access



## Housing & Economic Security in Later Life

- Food Insecurity Among Older Adults – older adults experiencing food insecurity per 100 older adults | d | 0–50 | Annual | Y | Y | USDA / Census CPS Food Security Supplement | <https://www.ers.usda.gov/> | 2nd Reference Search String: National Academies analysis of Food Insecurity Among Older Adults
- SNAP Participation Among Older Adults – older adults receiving SNAP benefits per 100 older adults | i | 0–100 | Annual | Y | Y | USDA Food and Nutrition Service | <https://www.fns.usda.gov/> | 2nd Reference Search String: National Academies analysis of SNAP Participation Among Older Adults
- Housing Subsidy Participation Among Older Adults – older adults receiving HUD housing assistance per 100 older adult households | i | 0–100 | Annual | Y | Y | HUD | <https://www.hud.gov/> | 2nd Reference Search String: National Academies analysis of Senior Housing Assistance
- Energy Assistance Participation (LIHEAP) – older adult households receiving energy assistance per 100 older adult households | i | 0–100 | Annual | Y | Y | HHS LIHEAP Office | <https://www.acf.hhs.gov/> | 2nd Reference Search String: National Academies analysis of Energy Burden Among Older Adults
- Medicaid Enrollment Among Older Adults – older adults enrolled in Medicaid per 100 older adults | i | 0–100 | Annual | Y | Y | CMS / State Medicaid Agencies | <https://www.medicaid.gov/> | 2nd Reference Search String: National Academies analysis of Medicaid Enrollment Among Older Adults
- Older Adult Housing Cost Burden – older adult households spending  $\geq 30\%$  of income on housing per 100 older adult households | d | 0–100 | Annual | Y | Y | HUD CHAS | <https://www.hud.gov/> | 2nd Reference Search String: National Academies analysis of Senior Housing Burden
- Older Adult Homeownership Rate – owner-occupied homes among older adult households per 100 older adult households | i | 0–100 | Annual | Y | Y | Census ACS | <https://www.census.gov/> | 2nd Reference Search String: National Academies analysis of Senior Homeownership
- Older Adults in Deep Poverty – older adults below 100% of the federal poverty level per 100 older adults | d | 0–50 | Annual | Y | Y | Census ACS | <https://www.census.gov/> | 2nd Reference Search String: National Academies analysis of Senior Deep Poverty

- Older Adults in Near Poverty – older adults between >100% and ≤200% of the federal poverty level per 100 older adults | d | 0–60 | Annual | Y | Y | Census ACS | <https://www.census.gov/> | 2nd Reference Search String: National Academies analysis of Senior Near Poverty
- Older Adults Above 200% FPL – older adults above 200% of the federal poverty level per 100 older adults | i | 0–100 | Annual | Y | Y | Census ACS | <https://www.census.gov/> | 2nd Reference Search String: National Academies analysis of Senior Economic Distribution

 [Back to Index](#)



## Health Care

◆ Effort Ideal: Affordable, Quality Health Insurance and Care for All



### Hospital Infrastructure

- Hospital Facility Condition Index - hospitals rated good or better per 100 hospitals | i | 0-100 | Annual | Y | Y | AHA Hospital Statistics | AHA Data | AHA Annual Survey Database | 2nd Reference Search String: National Academies analysis of Hospital Facility Condition Index
- Hospitals Beyond Recommended Age - hospitals older than recommended lifespan per 100 hospitals | d | 0-100 | Annual | Y | Y | AHA / State Health Facility Data | AHA Data | CDC National Health Care Surveys | 2nd Reference Search String: National Academies analysis of Hospitals Beyond Recommended Age
- Hospital Capital Investment - dollars spent per bed per year | d | 0-150,000 dollars per bed per year | Annual | Y | Y | CMS / AHA Capital Expenditure Reports | CMS Expenditures | AHA Hospital Capital Investment Data | 2nd Reference Search String: National Academies analysis of Hospital Capital Investment
- Compliance with Safety Standards - hospitals meeting codes per 100 hospitals | i | 0-100 | Annual | Y | Y | Joint Commission / State Health Departments | Joint Commission | Joint Commission Accreditation Standards | 2nd Reference Search String: National Academies analysis of Compliance with Safety Standards
- Energy Efficiency in Hospitals - kWh consumed per square foot | d | 0-700 kWh per square foot | Annual | Y | Y | EPA ENERGY STAR | EPA Energy Star | EPA ENERGY STAR for Healthcare | 2nd Reference Search String: National Academies analysis of Energy Efficiency in Hospitals
- Hospital Security Incidents - breaches/violence per 100 hospitals | d | 0-100 | Annual | Y | Y | FBI UCR / Joint Commission Safety Data | FBI UCR | Joint Commission Sentinel Event Data | 2nd Reference Search String: National Academies analysis of Hospital Security Incidents
- Emergency Response Plan Compliance (Hospitals) - compliant hospitals per 100 | i | 0-100 | Annual | Y | Y | CMS / FEMA Guidance | CMS Emergency Preparedness | FEMA Hospital Preparedness Program | 2nd Reference Search String: National Academies analysis of Emergency Response Plan Compliance (Hospitals)



## Access and Coverage

- Health Insurance Coverage - insured residents per 100 | i | 0-100 | Annual | Y | Y | Census ACS | Census ACS | KFF Health Insurance Coverage Data | 2nd Reference Search String: National Academies analysis of Health Insurance Coverage
- Primary Care Provider Density - providers per 100,000 residents | g | 0-100,000 | Annual | Y | Y | HRSA Data | HRSA | HRSA Area Health Resource Files | 2nd Reference Search String: National Academies analysis of Primary Care Provider Density
- Mental Health Provider Access - providers per 100,000 residents | g | 0-100,000 | Annual | Y | Y | HRSA Data | HRSA | HRSA Mental Health Workforce Data | 2nd Reference Search String: National Academies analysis of Mental Health Provider Access
- Indigent/Destitute/Homeless Population - individuals per 100 residents | d | 0-100 | Annual | Y | Y | HUD Homeless Data | HUD Homeless | HUD Annual Homeless Assessment Report | 2nd Reference Search String: National Academies analysis of Indigent/Destitute/Homeless Population
- Patient Proximity to Care - residents within 30 minutes per 100 | i | 0-100 | Annual | Y | Y | HRSA Area Health Resource Files | HRSA AHRF | HRSA Access to Care Data | 2nd Reference Search String: National Academies analysis of Patient Proximity to Care



## Cost and Affordability

- Healthcare Cost per Capita - dollars per resident | d | 0-20,000 dollars per resident | Annual | Y | Y | CMS NHE | CMS NHE | CMS National Health Expenditure Data | 2nd Reference Search String: National Academies analysis of Healthcare Cost per Capita
- Out-of-Pocket Health Spending - dollars per resident | d | 0-3,000 dollars per resident | Annual | Y | Y | KFF Health Costs | KFF Costs | KFF Health Expenditure Data | 2nd Reference Search String: National Academies analysis of Out-of-Pocket Health Spending
- Hospital Readmissions - readmissions per 100 discharges | d | 0-100 | Annual | Y | Y | CMS Hospital Compare | CMS Hospital Compare | CMS Readmissions Reduction Program | 2nd Reference Search String: National Academies analysis of Hospital Readmissions
- Overcharging/Billing Violations - violations per 100 hospitals | d | 0-100 | Annual | Y | Y | CMS / State AG Data | CMS Oversight | OIG Healthcare Fraud Reports | 2nd Reference Search String: National Academies analysis of Overcharging/Billing Violations

## Patient Experience and Quality

- Patient Satisfaction Scores (HCAHPS) - patients rating care highly per 100 surveyed | i | 0-100 | Annual | Y | Y | CMS HCAHPS | CMS HCAHPS | AHRQ HCAHPS Survey Data | 2nd Reference Search String: National Academies analysis of Patient Satisfaction Scores (HCAHPS)
- Preventable Hospitalizations - discharges per 1,000 Medicare enrollees | d | 0-1,000 | Annual | Y | Y | AHRQ Quality Indicators | AHRQ | AHRQ Prevention Quality Indicators | 2nd Reference Search String: National Academies analysis of Preventable Hospitalizations
- Timely Access to Appointments - patients seen within 2 weeks per 100 appointments | i | 0-100 | Annual | Y | Y | CAHPS Survey Data | CAHPS | AHRQ CAHPS Access Measures | 2nd Reference Search String: National Academies analysis of Timely Access to Appointments
- Unneeded/Botched Procedures - cases per 100 procedures | d | 0-100 | Annual | Y | Y | State Medical Boards / CMS | CMS Oversight | FSMB Disciplinary Data | 2nd Reference Search String: National Academies analysis of Unneeded/Botched Procedures
- Prescription Drug Abuse - misuse cases per 100 patients | d | 0-100 | Annual | Y | Y | CDC / State PDMPs | CDC Drug Data | CDC Prescription Drug Monitoring Program | 2nd Reference Search String: National Academies analysis of Prescription Drug Abuse

## System Capacity and Performance

- Hospital Bed Availability - beds per 1,000 residents | g | 0-1,000 | Annual | Y | Y | AHA Hospital Statistics | AHA Data | OECD Hospital Beds Data | 2nd Reference Search String: National Academies analysis of Hospital Bed Availability
- Emergency Room Wait Time - minutes to be seen per patient | d | 0-240 minutes | Annual | Y | Y | CMS Hospital Compare | CMS Hospital Compare | CDC Emergency Department Data | 2nd Reference Search String: National Academies analysis of Emergency Room Wait Time
- Electronic Health Record Adoption - providers using EHRs per 100 providers | i | 0-100 | Annual | Y | Y | ONC Health IT Data | ONC Health IT | ONC EHR Adoption Data | 2nd Reference Search String: National Academies analysis of Electronic Health Record Adoption

- Physician Deficit - physicians missing per 100 residents compared to recommended | d | 0-10 | Annual | Y | Y | HRSA Workforce Data | HRSA | AAMC Physician Workforce Data | 2nd Reference Search String: National Academies analysis of Physician Deficit
- Nurse Deficit - nurses missing per 100 residents compared to recommended | d | 0-20 | Annual | Y | Y | HRSA Workforce Data | HRSA | HRSA Nursing Workforce Data | 2nd Reference Search String: National Academies analysis of Nurse Deficit
- Dentist Density - dentists per 100,000 residents | g | 0-100,000 | Annual | Y | Y | HRSA Oral Health Data | HRSA Oral Health | HRSA Dental Workforce Data | 2nd Reference Search String: National Academies analysis of Dentist Density
- Public Health Clinics Availability - clinics per 100,000 residents | g | 0-100,000 | Annual | Y | Y | State Health Department Data | State Health Data | CDC Public Health Infrastructure | 2nd Reference Search String: National Academies analysis of Public Health Clinics Availability
- First Tier/Second Tier Hospitals Availability - hospitals per 100,000 residents | g | 0-100,000 | Annual | Y | Y | AHA Hospital Statistics | AHA Data | AHA Hospital Data | 2nd Reference Search String: National Academies analysis of First Tier/Second Tier Hospitals Availability
- Nursing Homes Availability - facilities per 100,000 residents | g | 0-100,000 | Annual | Y | Y | CMS Nursing Home Compare | CMS Nursing Homes | CMS Care Compare Nursing Homes | 2nd Reference Search String: National Academies analysis of Nursing Homes Availability
- Public Health/Medical Related Violations - violations per 100 facilities | d | 0-100 | Annual | Y | Y | State Health Departments / CMS Oversight | CMS Oversight | OIG Healthcare Oversight Reports | 2nd Reference Search String: National Academies analysis of Public Health/Medical Related Violations

#### Emergency Preparedness

- Trained EMS Personnel Density - certified personnel per 100,000 residents | g | 0-100,000 | Annual | Y | Y | HRSA EMS Workforce Data | HRSA EMS | NHTSA EMS Workforce Data | 2nd Reference Search String: National Academies analysis of Trained EMS Personnel Density
- Counties with Enhanced 911 Services - counties covered per 100 | i | 0-100 | Annual | Y | Y | FCC / State Emergency Management | FCC 911 | FCC 911 Data | 2nd Reference Search String: National Academies analysis of Counties with Enhanced 911 Services

- Counties with Ambulance Services - counties covered per 100 | i | 0-100 | Annual | Y | Y | State EMS Data | State EMS | NHTSA EMS Data | 2nd Reference Search String: National Academies analysis of Counties with Ambulance Services
- Advanced Life Support Capability - certified facilities per 100 EMS providers | i | 0-100 | Annual | Y | Y | State EMS Certification Data | State EMS | NHTSA EMS Certification Data | 2nd Reference Search String: National Academies analysis of Advanced Life Support Capability
- Certified Emergency Treatment Facility Availability - facilities per 100 counties | g | 0-100 | Annual | Y | Y | CMS Hospital Compare / State EMS Data | CMS Hospital Compare | CMS Care Compare Emergency Services | 2nd Reference Search String: National Academies analysis of Certified Emergency Treatment Facility Availability

#### Prevention and Public Health

- Mothers Without Prenatal Care in First Trimester - births per 100 live births | d | 0-100 | Annual | Y | Y | CDC Natality Data | CDC Natality | CDC Pregnancy Data | 2nd Reference Search String: National Academies analysis of Mothers Without Prenatal Care in First Trimester
- Pregnancy Risk Behaviors - cases per 100 pregnancies | d | 0-100 | Annual | Y | Y | CDC PRAMS | CDC PRAMS | CDC PRAMS Data | 2nd Reference Search String: National Academies analysis of Pregnancy Risk Behaviors
- Children Immunized by Age Two - vaccinations per 100 children | i | 0-100 | Annual | Y | Y | CDC Immunization Data | CDC Immunization | CDC ChildVaxView | 2nd Reference Search String: National Academies analysis of Children Immunized by Age Two
- Children with Hearing/Vision Checked Before School - screenings per 100 children | i | 0-100 | Annual | Y | Y | State School Health Programs | State Health | CDC School Health Data | 2nd Reference Search String: National Academies analysis of Children with Hearing/Vision Checked Before School
- Physical Exam in Previous 2 Years - exams per 100 adults | i | 0-100 | Annual | Y | Y | BRFSS / State Health Surveys | CDC BRFSS | CDC Preventive Health Data | 2nd Reference Search String: National Academies analysis of Physical Exam in Previous 2 Years
- Dental Visit in Last Year - visits per 100 residents | i | 0-100 | Annual | Y | Y | CDC Oral Health Data | CDC Oral Health | CDC Oral Health Surveillance | 2nd Reference Search String: National Academies analysis of Dental Visit in Last Year

- Brushing Teeth Daily - compliance per 100 residents | i | 0-100 | Annual | Y | Y | BRFSS / State Oral Health Surveys | CDC BRFSS | CDC Oral Health Behaviors | 2nd Reference Search String: National Academies analysis of Brushing Teeth Daily
- Population with Fluoridated Public Water Supply - residents covered per 100 | i | 0-100 | Annual | Y | Y | CDC Water Fluoridation Data | CDC Fluoridation | CDC Water Fluoridation Statistics | 2nd Reference Search String: National Academies analysis of Population with Fluoridated Public Water Supply
- Influenza/Pneumonia Immunization - vaccinations per 100 residents | i | 0-100 | Annual | Y | Y | CDC Immunization Data | CDC Immunization | CDC Flu & Pneumonia Vaccination Data | 2nd Reference Search String: National Academies analysis of Influenza/Pneumonia Immunization
- Cholesterol Screening - screenings per 100 adults | i | 0-100 | Annual | Y | Y | CDC Screening Data | CDC Screening | CDC Cholesterol Data | 2nd Reference Search String: National Academies analysis of Cholesterol Screening
- Cervical Cancer Screening - screenings per 100 women | i | 0-100 | Annual | Y | Y | CDC Cancer Screening Data | CDC Cancer Screening | CDC Cervical Cancer Screening Data | 2nd Reference Search String: National Academies analysis of Cervical Cancer Screening
- Colon/Rectal Screening - screenings per 100 adults | i | 0-100 | Annual | Y | Y | CDC Cancer Screening Data | CDC Cancer Screening | CDC Colorectal Cancer Screening Data | 2nd Reference Search String: National Academies analysis of Colon/Rectal Screening

## Oversight and Accountability

- Improper Medicaid Payments – improper Medicaid payments per \$100 paid | d | 0–20 | Annual | Y | Y | CMS Payment Integrity | <https://www.cms.gov/> | 2nd Reference Search String: National Academies analysis of Medicaid Improper Payments
- Improper Medicare Payments – improper Medicare payments per \$100 paid | d | 0–20 | Annual | Y | Y | CMS Payment Integrity | <https://www.cms.gov/> | 2nd Reference Search String: National Academies analysis of Medicare Improper Payments
- Malpractice Claims - substantiated claims per 100 physicians | d | 0-100 | Annual | Y | Y | State Medical Boards / NPDB | NPDB | HRSA NPDB Data | 2nd Reference Search String: National Academies analysis of Malpractice Claims



- Investigative Capacity - investigations completed per 100 needed | i | 0-100 | Annual | Y | Y | State Health Oversight Agencies | State Oversight | CDC Public Health Oversight Resources | 2nd Reference Search String: National Academies analysis of Investigative Capacity
- Fraudulent Billing Cases - investigated/prosecuted cases per 100 hospitals | d | 0-100 | Annual | Y | Y | CMS Program Integrity / DOJ Health Care Fraud Unit | DOJ Health Care Fraud | HHS OIG Health Care Fraud Reports | 2nd Reference Search String: National Academies analysis of Fraudulent Billing Cases
- Licensing and Certification Violations - facilities/providers cited per 100 inspected | d | 0-100 | Annual | Y | Y | State Medical Boards / CMS Certification Data | CMS Certification | CMS Provider Certification Data | 2nd Reference Search String: National Academies analysis of Licensing and Certification Violations
- Transparency in Pricing Compliance - hospitals meeting disclosure rules per 100 hospitals | i | 0-100 | Annual | Y | Y | CMS Price Transparency Data | CMS Price Transparency | CMS Hospital Price Transparency Data | 2nd Reference Search String: National Academies analysis of Transparency in Pricing Compliance
- Prescription Fraud Cases - fraudulent prescriptions prosecuted per 100 pharmacies | d | 0-100 | Annual | Y | Y | DEA Diversion Control / State PDMPs | DEA Diversion | CDC Prescription Drug Monitoring Program | 2nd Reference Search String: National Academies analysis of Prescription Fraud Cases

[← Back to Index](#)

## Economic Development

◆ Effort Ideal: A Robust, Sustainable, and Inclusive Economy

### Economic Growth

- Gross State Product Growth - dollar change per \$100,000 in output | i | 0-20 | Annual | Y | Y | BEA Regional Economic Accounts | BEA Regional | BEA GDP by State | 2nd Reference Search String: National Academies analysis of Gross State Product Growth
- Business Formation - new businesses per 1,000 residents | g | 0-1,000 | Annual | Y | Y | Census Business Dynamics Statistics | Census BDS | Census Business Formation Statistics | 2nd Reference Search String: National Academies analysis of Business Formation
- Capital Investment - investment dollars per \$100,000 in state GDP | i | 0-20,000 | Annual | Y | Y | BEA / State Economic Development Agencies | BEA Investment | BEA Fixed Assets Data | 2nd Reference Search String: National Academies analysis of Capital Investment
- Export Value per Capita - export dollars per resident | i | 0-30,000 dollars per resident | Annual | Y | Y | US Census Foreign Trade Data | Census Trade | Census Trade Statistics | 2nd Reference Search String: National Academies analysis of Export Value per Capita
- Export Value - export dollars per \$100,000 in state GDP | i | 0-20,000 | Annual | Y | Y | US Census Foreign Trade Data | Census Trade | Census State Export Data | 2nd Reference Search String: National Academies analysis of Export Value
- Innovation Index - patents per 100,000 residents | g | 0-100,000 | Annual | Y | Y | USPTO / NSF Indicators | USPTO | NSF Science & Engineering Indicators | 2nd Reference Search String: National Academies analysis of Innovation Index

### Employment

- Unemployment - unemployed workers per 100 labor force participants | d | 0-100 | Monthly | Y | Y | BLS LAUS | BLS LAUS | BLS Local Area Unemployment Statistics | 2nd Reference Search String: National Academies analysis of Unemployment
- Labor Force Participation (Employed Or Seeking Work) - number per 100 working-age residents | i | 0-100 | Annual | Y | Y | BLS CPS | BLS CPS | BLS Current Population Survey | 2nd Reference Search String: National Academies analysis of Labor Force Participation

- Job Creation - net new jobs per 1,000 residents | g | 0-1,000 | Annual | Y | Y | BLS BED | BLS BED | BLS Business Employment Dynamics | 2nd Reference Search String: National Academies analysis of Job Creation
- Employment Diversity Index - normalized industry diversity score per economic sector included | g | 0-100 | Annual | Y | Y | BLS QCEW | BLS QCEW | BLS Quarterly Census of Employment and Wages | 2nd Reference Search String: National Academies analysis of Employment Diversity Index
- Workforce Training Participation - enrollment per 100 workers | i | 0-100 | Annual | Y | Y | DOE Workforce Development | DOE Workforce | DOE Workforce Development Programs | 2nd Reference Search String: National Academies analysis of Workforce Training Participation

#### Income Levels

- Household Income Deficit - shortfall vs. living-wage benchmark per \$100,000 need | d | -50,000-50,000 | Annual | Y | Y | Census ACS | Census ACS | Census ACS Income Data | 2nd Reference Search String: National Academies analysis of Household Income Deficit
- Poverty - residents below poverty line per 100 | d | 0-100 | Annual | Y | Y | Census ACS | Census ACS | Census Poverty Data | 2nd Reference Search String: National Academies analysis of Poverty
- Income Inequality (Gini Index) - inequality measure per 100 households | d | 0-100 | Annual | Y | Y | Census ACS | Census ACS | World Bank Gini Index | 2nd Reference Search String: National Academies analysis of Income Inequality (Gini Index)
- Disposable Income - disposable dollars per \$1,000 earned | i | 0-1,000 | Annual | Y | Y | BEA Regional Accounts | BEA Regional | BEA Personal Income Data | 2nd Reference Search String: National Academies analysis of Disposable Income
- Wage Growth - dollar change per \$1,000 in wages | i | 0-200 | Annual | Y | Y | BLS OES | BLS OES | BLS Occupational Employment Statistics | 2nd Reference Search String: National Academies analysis of Wage Growth

#### Business Environment

- Business Survival - businesses surviving 5 years per 100 new businesses | i | 0-100 | Annual | Y | Y | Census BDS | Census BDS | Census Business Dynamics Statistics | 2nd Reference Search String: National Academies analysis of Business Survival

- Small Business Share of Employment - jobs in small firms per 100 jobs | i | 0-100 | Annual | Y | Y | SBA Advocacy | SBA Advocacy | SBA Small Business Data | 2nd Reference Search String: National Academies analysis of Small Business Share of Employment
- Access to Capital - loans per 1,000 businesses | g | 0-1,000 | Annual | Y | Y | FDIC / SBA Lending Data | FDIC | SBA Lending Statistics | 2nd Reference Search String: National Academies analysis of Access to Capital
- Tax Climate Index - competitiveness score per 100 | i | 0-100 | Annual | Y | Y | Tax Foundation | Tax Foundation | Tax Foundation State Business Tax Climate Index | 2nd Reference Search String: National Academies analysis of Tax Climate Index
- Regulatory Burden Index - compliance dollars per \$100,000 in revenue | d | 0-20 | Annual | Y | Y | OECD / State Agencies | OECD | OECD Regulatory Policy | 2nd Reference Search String: National Academies analysis of Regulatory Burden Index



#### Quality of Life

- Cost of Living Index - relative cost baseline 100 = national average | d | 70-150 | Annual | Y | Y | C2ER Cost of Living Index | C2ER COLI | C2ER Cost of Living Index | 2nd Reference Search String: National Academies analysis of Cost of Living Index
- Housing Affordability Index (Home Price) - median home price vs income per 100 households | i | 0-100 | Annual | Y | Y | NAR / Census ACS | NAR Housing | NAR Housing Affordability Index | 2nd Reference Search String: National Academies analysis of Housing Affordability Index
- Commute Time Average - minutes per worker | d | 0-180 | Annual | Y | Y | Census ACS | Census ACS | Census ACS Transportation Data | 2nd Reference Search String: National Academies analysis of Commute Time Average
- Access to Broadband Internet - households with high-speed access per 100 households | i | 0-100 | Annual | Y | Y | FCC Broadband Deployment Reports | FCC Broadband | FCC Broadband Deployment Data | 2nd Reference Search String: National Academies analysis of Access to Broadband Internet
- Cultural and Recreational Amenities Index - facilities per 1,000 residents | g | 0-1,000 | Annual | Y | Y | NEA / State Tourism Agencies | NEA Data | NEA Arts Data | 2nd Reference Search String: National Academies analysis of Cultural and Recreational Amenities Index

## Sustainability

- Renewable Energy Share of Consumption - renewable share per 100 energy units | i | 0-100 | Annual | Y | Y | EIA State Energy Data | EIA Renewables | EIA Renewable Energy Data | 2nd Reference Search String: National Academies analysis of Renewable Energy Share of Consumption
- Carbon Emissions - metric tons CO<sub>2</sub> equivalent per resident | d | 0-20 | Annual | Y | Y | EPA GHG Inventory | EPA GHG | EPA Greenhouse Gas Inventory Data | 2nd Reference Search String: National Academies analysis of Carbon Emissions
- Green Jobs Share of Employment - clean industry jobs per 100 workers | i | 0-100 | Annual | Y | Y | BLS Green Goods and Services | BLS Green Jobs | BLS Green Jobs Data | 2nd Reference Search String: National Academies analysis of Green Jobs Share of Employment
- Land Use Change - acres converted from farmland/forest to development per 100 acres | d | 0-100 | Annual | Y | Y | USDA / USGS Land Cover Data | USGS Land Cover | USGS National Land Cover Database | 2nd Reference Search String: National Academies analysis of Land Use Change

 [Back to Index](#)

## Opportunity and Mobility

◆ Effort Ideal: An Inclusive Economy Where All Have Pathways to Advance

### Upward Mobility

- Intergenerational Income Mobility - children in bottom quintile moving upward per 100 | i | 0-100 | Annual | Y | Y | Census / Opportunity Insights | Opportunity Insights | Opportunity Insights Mobility Data | 2nd Reference Search String: National Academies analysis of Intergenerational Income Mobility
- Educational Attainment by Family Income - low-income students completing college per 100 | i | 0-100 | Annual | Y | Y | NCES / Opportunity Insights | NCES | NCES Education Attainment Data | 2nd Reference Search String: National Academies analysis of Educational Attainment by Family Income
- Neighborhood Opportunity Index - neighborhoods with high opportunity per 100 | i | 0-100 | Annual | Y | Y | Opportunity Atlas (Harvard / Census) | Opportunity Atlas | Opportunity Atlas Neighborhood Data | 2nd Reference Search String: National Academies analysis of Neighborhood Opportunity Index
- Wealth Building - households in bottom quintile with net worth growth per 100 | i | 0-100 | Annual | Y | Y | Federal Reserve SCF | Federal Reserve SCF | Federal Reserve Survey of Consumer Finances | 2nd Reference Search String: National Academies analysis of Wealth Building
- Homeownership for Low-Income Families - households in bottom quartile owning homes per 100 | i | 0-100 | Annual | Y | Y | Census ACS Housing Data | Census ACS | Census Housing Data | 2nd Reference Search String: National Academies analysis of Homeownership for Low-Income Families
- Social Mobility Index - composite score per 100 | i | 0-100 | Annual | Y | Y | OECD / Opportunity Insights | OECD Mobility | OECD Social Mobility Data | 2nd Reference Search String: National Academies analysis of Social Mobility Index

### Employment and Workforce Access

- Unemployment - unemployed workers per 100 labor force participants | d | 0-100 | Monthly | Y | Y | BLS LAUS | BLS LAUS | BLS Local Area Unemployment Statistics | 2nd Reference Search String: National Academies analysis of Unemployment
- Labor Force Participation (Employed Or Seeking Work) - number per 100 working-age residents | i | 0-100 | Annual | Y | Y | BLS CPS | BLS CPS | BLS Current Population

## Survey | 2nd Reference Search String: National Academies analysis of Labor Force Participation

- Job Creation - net new jobs per 1,000 residents | g | 0-1,000 | Annual | Y | Y | BLS BED | BLS BED | BLS Business Employment Dynamics | 2nd Reference Search String: National Academies analysis of Job Creation
- Employment Diversity Index - normalized industry diversity score per economic sector included | g | 0-100 | Annual | Y | Y | BLS QCEW | BLS QCEW | BLS Quarterly Census of Employment and Wages | 2nd Reference Search String: National Academies analysis of Employment Diversity Index
- Workforce Training Participation - enrollment per 100 workers | i | 0-100 | Annual | Y | Y | DOE Workforce Development | DOE Workforce | DOE Workforce Development Programs | 2nd Reference Search String: National Academies analysis of Workforce Training Participation
- Sectoral Labor Shortage Index - employers reporting unfilled positions per 100 | d | 0-100 | Annual | Y | Y | BLS JOLTS | BLS JOLTS | BLS Job Openings and Labor Turnover Survey | 2nd Reference Search String: National Academies analysis of Sectoral Labor Shortage Index

## Access to Capital and Opportunity

- Small Business Loan Access - loans per 1,000 businesses | g | 0-1,000 | Annual | Y | Y | FDIC / SBA Lending Data | SBA Lending | SBA Loan Program Data | 2nd Reference Search String: National Academies analysis of Small Business Loan Access
- Small Business Lending from Private Sources - financing per 100 businesses | i | 0-100 | Annual | Y | Y | Federal Reserve Small Business Credit Survey | Fed SBCS | Federal Reserve Small Business Credit Survey | 2nd Reference Search String: National Academies analysis of Small Business Lending from Private Sources
- Minority-Owned Business Share - minority-owned businesses per 100 | i | 0-100 | Annual | Y | Y | Census SBO | Census SBO | Census Survey of Business Owners | 2nd Reference Search String: National Academies analysis of Minority-Owned Business Share
- Women-Owned Business Share - women-owned businesses per 100 | i | 0-100 | Annual | Y | Y | Census SBO | Census SBO | Census Survey of Business Owners | 2nd Reference Search String: National Academies analysis of Women-Owned Business Share

- Entrepreneurship - new business starts per 1,000 residents | g | 0-1,000 | Annual | Y | Y  
| Census BDS | Census BDS | Census Business Dynamics Statistics | 2nd Reference  
Search String: National Academies analysis of Entrepreneurship

#### Community Opportunity

- Access to Affordable Housing - households spending <30% income per 100 | i | 0-100 | Annual | Y | Y | HUD / Census ACS | HUD Housing | HUD Affordable Housing Data | 2nd Reference Search String: National Academies analysis of Access to Affordable Housing
- Access to Broadband Internet - households with high-speed access per 100 households | i | 0-100 | Annual | Y | Y | FCC Broadband Reports | FCC Broadband | FCC Broadband Deployment Data | 2nd Reference Search String: National Academies analysis of Access to Broadband Internet
- Transit Access to Jobs - jobs reachable within 30 minutes per 100 | i | 0-100 | Annual | Y | Y | DOT / Brookings Data | Brookings Access | Brookings Transit Access Research | 2nd Reference Search String: National Academies analysis of Transit Access to Jobs
- Childcare Availability Index - childcare slots per 100 children under age 5 | g | 0-100 | Annual | Y | Y | HHS Childcare Data | HHS Childcare | HHS Office of Child Care Data | 2nd Reference Search String: National Academies analysis of Childcare Availability Index
- Childcare Workforce Availability – childcare workers per 100 children under age 5 | i | 0–20 | Annual | Y | Y | BLS OES | <https://www.bls.gov/> | 2nd Reference Search String: National Academies analysis of Childcare Workforce Availability
- Childcare Workforce Retention Rate – childcare worker retention over 12 months per 100 workers | i | 0–100 | Annual | Y | Y | BLS / State Labor Agencies | <https://www.bls.gov/> | 2nd Reference Search String: National Academies analysis of Childcare Workforce Retention
- Access or Proximity to Medical Care - residents within 30 minutes per 100 | i | 0-100 | Annual | Y | Y | HRSA AHRF / State GIS | HRSA AHRF | HRSA Access to Care Data | 2nd Reference Search String: National Academies analysis of Access or Proximity to Medical Care

 Back to Index





## Domestic Waste

◆ Effort Ideal: Everything That Can Be Recycled Will, and Everything That Cannot Will Be Effectively Sequestered



### Recycling and Diversion

- Recycling - municipal solid waste recycled per 100 units | i | 0-100 | Annual | Y | Y | EPA Recycling Data | EPA Recycling | EPA Facts & Figures on Recycling | 2nd Reference Search String: National Academies analysis of Recycling
- Waste Diversion - waste diverted from landfill per 100 units | i | 0-100 | Annual | Y | Y | EPA Waste Diversion | EPA Waste | EPA Sustainable Materials Management | 2nd Reference Search String: National Academies analysis of Waste Diversion
- Composting Participation - households composting per 100 households | i | 0-100 | Annual | Y | Y | State Environmental Agencies | EPA Composting | EPA Composting Basics | 2nd Reference Search String: National Academies analysis of Composting Participation
- Solid Waste Recovered/Recycled/Composted - share of total per 100 units | i | 0-100 | Annual | Y | Y | State Solid Waste Reports / EPA Recycling Data | EPA Recycling | EPA Recycling Statistics | 2nd Reference Search String: National Academies analysis of Solid Waste Recovered/Recycled/Composted



### Household Waste Management

- Household Hazardous Waste Collection - pounds per household | d | 0-50 | Annual | Y | Y | EPA HHW Programs | EPA HHW | EPA Household Hazardous Waste Guidance | 2nd Reference Search String: National Academies analysis of Household Hazardous Waste Collection
- Per Capita Waste Generation - pounds per person per day | d | 0-10 | Annual | Y | Y | EPA Waste Generation | EPA Waste | EPA Waste Generation Data | 2nd Reference Search String: National Academies analysis of Per Capita Waste Generation
- Access to Curbside Collection - households served per 100 households | i | 0-100 | Annual | Y | Y | Municipal Waste Data | EPA Collection | EPA Recycling Collection Data | 2nd Reference Search String: National Academies analysis of Access to Curbside Collection

- Households with Garbage Collection - coverage per 100 households | i | 0-100 | Annual | Y | Y | State Solid Waste Reports | EPA Waste | EPA Solid Waste Management | 2nd Reference Search String: National Academies analysis of Households with Garbage Collection
- Households That Don't Recycle - non-participating households per 100 households | d | 0-100 | Annual | Y | Y | State Solid Waste Reports | EPA Recycling | EPA Recycling Participation Data | 2nd Reference Search String: National Academies analysis of Households That Don't Recycle

#### Wastewater Management

- Wastewater per Person - gallons per capita per day | d | 0-200 | Annual | Y | Y | EPA / State Environmental Agencies | EPA Wastewater | EPA NPDES Program | 2nd Reference Search String: National Academies analysis of Wastewater per Person
- Households Connected to Sewers - connected households per 100 households | i | 0-100 | Annual | Y | Y | EPA Clean Water SRF / State Utility Data | EPA SRF | EPA Clean Water State Revolving Fund | 2nd Reference Search String: National Academies analysis of Households Connected to Sewers
- Straight Pipes (Untreated Discharge) - households with untreated discharge per 1,000 households | d | 0-1,000 | Annual | Y | Y | State Environmental Agencies | EPA Wastewater | EPA NPDES Program | 2nd Reference Search String: National Academies analysis of Straight Pipes (Untreated Discharge)
- Sewer Overflows - incidents per 1,000 miles of sewer line | d | 0-100 | Annual | Y | Y | EPA / State Utility Reports | EPA Sewer | EPA Sanitary Sewer Overflows | 2nd Reference Search String: National Academies analysis of Sewer Overflows
- Wastewater Receiving Secondary Treatment - flow treated per 100 units | i | 0-100 | Annual | Y | Y | EPA Clean Watersheds Needs Survey | EPA CWNS | EPA CWNS Data | 2nd Reference Search String: National Academies analysis of Wastewater Receiving Secondary Treatment
- Storm Water Runoff Untreated - untreated runoff per 100 units | d | 0-100 | Annual | Y | Y | EPA Stormwater Program | EPA Stormwater | EPA Stormwater Program | 2nd Reference Search String: National Academies analysis of Storm Water Runoff Untreated

## Safety and Compliance

- Illegal Dump Remediation - sites remediated per 100 identified illegal dumps per year | i | 0-100 | Annual | Y | Y | EPA / State Solid Waste Agencies | EPA Waste | EPA Illegal Dumping Prevention and Cleanup | 2nd Reference Search String: National Academies analysis of Illegal Dump Remediation
- Illegal Dumping Complaints - complaints per 1,000 households | d | 0-1,000 | Annual | Y | Y | Local Solid Waste Reports | EPA Waste | EPA Illegal Dumping Resources | 2nd Reference Search String: National Academies analysis of Illegal Dumping Complaints
- Waste Facility Compliance - facilities meeting standards per 100 facilities | i | 0-100 | Annual | Y | Y | EPA ECHO Data | EPA ECHO | EPA Enforcement and Compliance Data | 2nd Reference Search String: National Academies analysis of Waste Facility Compliance
- Toxic Waste Disposal - tons per 1,000 residents | d | 0-1,000 | Annual | Y | Y | EPA RCRAInfo | EPA RCRA | EPA RCRA Hazardous Waste Data | 2nd Reference Search String: National Academies analysis of Toxic Waste Disposal
- Wastewater Discharge Violations - violations per 100 permitted facilities | d | 0-50 | Annual | Y | Y | EPA ECHO / State Agencies | EPA ECHO | EPA Enforcement and Compliance Data | 2nd Reference Search String: National Academies analysis of Wastewater Discharge Violations
- Wastewater Treatment Plant Violations - violations per 100 plants | d | 0-50 | Annual | Y | Y | EPA ECHO / State Agencies | EPA ECHO | EPA Enforcement and Compliance Data | 2nd Reference Search String: National Academies analysis of Wastewater Treatment Plant Violations
- Solid Waste Violations (Per Facility) - violations per 100 solid waste facilities | d | 0-50 | Annual | Y | Y | EPA ECHO / State Agencies | EPA ECHO | EPA Enforcement and Compliance Data | 2nd Reference Search String: National Academies analysis of Solid Waste Violations
- Open Dump Violations (Domestic Waste) - violations per 100 known dump sites | d | 0-50 | Annual | Y | Y | State Environmental Agencies | EPA Waste | EPA Illegal Dumping Resources | 2nd Reference Search String: National Academies analysis of Open Dump Violations
- Inspection Capacity/Need - inspectors per 100 facilities | i | 0-100 | Annual | Y | Y | EPA / State Environmental Agencies | EPA ECHO | EPA Enforcement and Compliance Data | 2nd Reference Search String: National Academies analysis of Inspection Capacity/Need

## Public Awareness and Behavior

- Public Participation in Waste Reduction - residents participating per 100 | i | 0-100 | Annual | Y | Y | EPA Outreach Data | EPA Outreach | EPA Recycling Outreach | 2nd Reference Search String: National Academies analysis of Public Participation in Waste Reduction
- School Recycling Program Coverage - schools participating per 100 | i | 0-100 | Annual | Y | Y | State Education Departments | EPA Schools | EPA School Recycling Resources | 2nd Reference Search String: National Academies analysis of School Recycling Program Coverage
- Consumer Awareness of Recycling Guidelines - residents with accurate knowledge per 100 | i | 0-100 | Annual | Y | Y | Recycling Partnership Surveys | Recycling Partnership | Recycling Partnership Research | 2nd Reference Search String: National Academies analysis of Consumer Awareness of Recycling Guidelines
- Litter (Land/Water) - pounds collected per resident | d | 0-50 | Annual | Y | Y | State Environmental Agencies / Local Solid Waste Reports | EPA Litter | EPA Trash-Free Waters Program | 2nd Reference Search String: National Academies analysis of Litter (Land/Water)

 [Back to Index](#)



## Conservation

### ◆ Effort Ideal: America/Kentucky Becomes a Conserving Nation/State



#### Energy and Resource Use

- Energy Consumption per Capita - BTUs consumed per resident | d | 0-500 million BTU/person/year | Annual | Y | Y | EIA State Energy Data | EIA State Energy | EIA Energy Consumption Data | 2nd Reference Search String: National Academies analysis of Energy Consumption per Capita
- Renewable Energy Share - renewable sources per 100 energy units | i | 0-100 | Annual | Y | Y | EIA Renewable Data | EIA Renewables | EIA Renewable Energy Data | 2nd Reference Search String: National Academies analysis of Renewable Energy Share
- Water Use per Capita - gallons per resident per day | d | 0-200 gallons/person/day | Annual | Y | Y | USGS Water Use Data | USGS Water Use | USGS Water Use Statistics | 2nd Reference Search String: National Academies analysis of Water Use per Capita
- Carbon Footprint per Capita - metric tons CO<sub>2</sub> equivalent per resident | d | 0-30 metric tons/person/year | Annual | Y | Y | EPA GHG Inventory | EPA GHG | EPA Greenhouse Gas Inventory | 2nd Reference Search String: National Academies analysis of Carbon Footprint per Capita
- Personal Sustainable Practices - households adopting conservation behaviors per 100 households | i | 0-100 | Annual | Y | Y | EPA Energy Star / State Surveys | EPA Energy Star | EPA Energy Star Residential Programs | 2nd Reference Search String: National Academies analysis of Personal Sustainable Practices



#### Public Participation and Community Involvement

- Conservation Program Participation - households enrolled per 100 households | i | 0-100 | Annual | Y | Y | EPA Energy Star Participation | EPA Energy Star | EPA Energy Star Participation Data | 2nd Reference Search String: National Academies analysis of Conservation Program Participation
- Volunteer Hours in Conservation Projects - hours per 1,000 residents | g | 0-1,000 | Annual | Y | Y | AmeriCorps Environmental Programs | AmeriCorps | AmeriCorps Environmental Volunteering | 2nd Reference Search String: National Academies analysis of Volunteer Hours in Conservation Projects

- School Participation in Environmental Education - schools participating per 100 schools | i | 0-100 | Annual | Y | Y | State Education Departments | NCES | NCES Environmental Education Data | 2nd Reference Search String: National Academies analysis of School Participation in Environmental Education
- Public Transportation Usage - commuters using transit per 100 commuters | i | 0-100 | Annual | Y | Y | DOT Transit Data / Census ACS | DOT Transit | Census ACS Transportation Data | 2nd Reference Search String: National Academies analysis of Public Transportation Usage
- Community Green Initiatives - sustainability programs per 100,000 residents | g | 0-100,000 | Annual | Y | Y | State Environmental Agencies | EPA Sustainability | EPA Community Sustainability Programs | 2nd Reference Search String: National Academies analysis of Community Green Initiatives
- Community Health and Inclusive Growth - equitable access to green spaces per 100 residents | i | 0-100 | Annual | Y | Y | CDC / State Health Departments | CDC Health | CDC Healthy Places | 2nd Reference Search String: National Academies analysis of Community Health and Inclusive Growth



#### Industrial Innovation

- Process Efficiency (output per unit input) - energy use per unit of industrial output | d | 0-100 | Annual | Y | Y | DOE Industrial Energy Data | DOE Industrial | DOE Advanced Manufacturing Office | 2nd Reference Search String: National Academies analysis of Process Efficiency (output per unit input)
- Industrial Waste Reduction - reduction per 100 units year-over-year | d | 0-100 | Annual | Y | Y | EPA TRI Data | EPA TRI | EPA TRI Data | 2nd Reference Search String: National Academies analysis of Industrial Waste Reduction
- Emission Controls Compliance - facilities compliant per 100 facilities | i | 0-100 | Annual | Y | Y | EPA ECHO Data | EPA ECHO | EPA Enforcement and Compliance Data | 2nd Reference Search String: National Academies analysis of Emission Controls Compliance
- Innovation Index (Green Patents) - clean tech patents per 100,000 residents | g | 0-100,000 | Annual | Y | Y | USPTO / NSF Indicators | USPTO | NSF Science & Engineering Indicators | 2nd Reference Search String: National Academies analysis of Innovation Index (Green Patents)

- System Effectiveness Score - composite measure of industrial conservation outcomes per 100 | i | 0-100 | Annual | Y | Y | DOE / EPA | DOE Sustainability | EPA Sustainability Programs | 2nd Reference Search String: National Academies analysis of System Effectiveness Score



## Environmental Protection

- Protected Area Coverage - acres under formal protection per 100 acres of land | i | 0-100 | Annual | Y | Y | USGS PAD-US | USGS PAD-US | USGS Protected Areas Database | 2nd Reference Search String: National Academies analysis of Protected Area Coverage
- Habitat Restoration Projects - Projects per 1,000 square miles of habitat area | d | 0-100 projects/1,000 sq mi/year | Annual | Y | Y | USFWS Habitat Restoration | USFWS Restoration | USFWS Habitat Restoration Programs | 2nd Reference Search String: National Academies analysis of Habitat Restoration Projects
- Conservation Easements - Acres per 1,000 residents | d | 0-500 acres/1,000 residents/year | Annual | Y | Y | Land Trust Alliance | Land Trust Alliance | Land Trust Alliance Easement Data | 2nd Reference Search String: National Academies analysis of Conservation Easements
- Public Stewardship Participation - residents engaged in conservation per 100 | i | 0-100 | Annual | Y | Y | State Environmental Agencies | EPA Stewardship | EPA Stewardship Programs | 2nd Reference Search String: National Academies analysis of Public Stewardship Participation
- Species Pressure Index - threatened/endangered species per 100 species | d | 0-100 | Annual | Y | Y | USFWS Endangered Species Data | USFWS ESA | USFWS Endangered Species Program | 2nd Reference Search String: National Academies analysis of Species Pressure Index
- Pollution Load Index - tons of pollutants per 1,000 residents per year | d | 0-20 tons/1,000 residents/year | Annual | Y | Y | EPA TRI / State Data | EPA TRI | EPA TRI Pollution Data | 2nd Reference Search String: National Academies analysis of Pollution Load Index



## Environmental Quality

- Air Quality Index (AQI) Compliance - days rated good per 100 days | i | 0-100 | Annual | Y | Y | EPA Air Data | EPA AQI | EPA Air Quality Data | 2nd Reference Search String: National Academies analysis of Air Quality Index (AQI) Compliance

- Water Quality Index - water bodies meeting standards per 100 monitored water bodies | i | 0-100 | Annual | Y | Y | EPA Water Quality Data | EPA Water Quality | EPA Water Quality Data | 2nd Reference Search String: National Academies analysis of Water Quality Index
- Soil Health Index - acres with healthy soil per 100 acres | i | 0-100 | Annual | Y | Y | NRCS Soil Health | NRCS Soil Health | NRCS Soil Health Data | 2nd Reference Search String: National Academies analysis of Soil Health Index
- Amelioration Efforts - Projects per 100 contaminated sites | d | 0-50 projects/100 sites/year | Annual | Y | Y | EPA Superfund / State Agencies | EPA Superfund | EPA Superfund Data | 2nd Reference Search String: National Academies analysis of Amelioration Efforts



### Robust Policy Advocacy

- Legislation Enactment - Conservation laws per 100 total bills enacted | d | 0-100 | Annual | Y | Y | State Legislatures / Congress | Congress Legislation | Congress Legislative Data | 2nd Reference Search String: National Academies analysis of Legislation Enactment
- Renewable Energy Adoption (Conservation) - utilities adopting renewables per 100 utilities | i | 0-100 | Annual | Y | Y | EIA / State Utility Commissions | EIA Renewables | EIA Renewable Energy Data | 2nd Reference Search String: National Academies analysis of Renewable Energy Adoption
- National Cooperation - participation in interstate/national conservation compacts per 100 entities | i | 0-100 | Annual | Y | Y | EPA / Federal-State Partnerships | EPA Partnerships | EPA Partnership Programs | 2nd Reference Search String: National Academies analysis of National Cooperation
- Regulatory Compliance - entities meeting conservation regulations per 100 entities | i | 0-100 | Annual | Y | Y | EPA ECHO / State Agencies | EPA ECHO | EPA Enforcement and Compliance Data | 2nd Reference Search String: National Academies analysis of Regulatory Compliance
- Life Cycle Analysis Adoption - industries using life cycle assessments per 100 industries | i | 0-100 | Annual | Y | Y | DOE / EPA SMM | EPA SMM | EPA Sustainable Materials Management | 2nd Reference Search String: National Academies analysis of Life Cycle Analysis Adoption



[Back to Index](#)



## Voting

### ◆ Effort Ideal: All Legitimate Voters Are Registered and Vote

#### Participation and Turnout

- Voter Turnout - eligible voters who voted per 100 | i | 0-100 | Annual | Y | Y | Census Voting Data | Census Voting | Census Voting and Registration Data | 2nd Reference Search String: National Academies analysis of Voter Turnout
- Youth Voter Turnout - voters ages 18-24 per 100 | i | 0-100 | Annual | Y | Y | CIRCLE Youth Voting | CIRCLE | CIRCLE Youth Voting Data | 2nd Reference Search String: National Academies analysis of Youth Voter Turnout
- Voter Turnout by Race/Ethnicity - eligible voters per 100 | i | 0-100 | Annual | Y | Y | Census Voting Data | Census Voting | Census Voting and Registration Data | 2nd Reference Search String: National Academies analysis of Voter Turnout by Race/Ethnicity
- Registered Voters Voting in Local Elections - turnout per 100 registered voters | i | 0-100 | Annual | Y | Y | State Election Data | NCSL Elections | NCSL Election Data | 2nd Reference Search String: National Academies analysis of Registered Voters Voting in Local Elections
- Registered Voters Voting in State Elections - turnout per 100 registered voters | i | 0-100 | Annual | Y | Y | State Election Data | NCSL Elections | NCSL Election Data | 2nd Reference Search String: National Academies analysis of Registered Voters Voting in State Elections
- Registered Voters Voting in Federal Elections - turnout per 100 registered voters | i | 0-100 | Annual | Y | Y | State Election Data | NCSL Elections | NCSL Election Data | 2nd Reference Search String: National Academies analysis of Registered Voters Voting in Federal Elections

#### Registration and Access

- Voter Registration - eligible population registered per 100 | i | 0-100 | Annual | Y | Y | Census Voting Data | Census Voting | Census Voting and Registration Data | 2nd Reference Search String: National Academies analysis of Voter Registration
- Online Voter Registration Availability - states offering per 100 states | i | 0-100 | Annual | Y | Y | NCSL Voter Registration | NCSL Registration | NCSL Online Registration Data | 2nd Reference Search String: National Academies analysis of Online Voter Registration Availability

- Same-Day Registration Usage - voters using per 100 | i | 0-100 | Annual | Y | Y | EAC Election Data | EAC | EAC Election Administration Data | 2nd Reference Search String: National Academies analysis of Same-Day Registration Usage
- Eligible Voters Registered - coverage per 100 eligible voters | i | 0-100 | Annual | Y | Y | State Election Data | NCSL Elections | NCSL Election Data | 2nd Reference Search String: National Academies analysis of Eligible Voters Registered

## Election Integrity

- Election Integrity Index - transparency/security score per 100 | i | 0-100 | Annual | Y | Y | Electoral Integrity Project | Electoral Integrity | Electoral Integrity Project Data | 2nd Reference Search String: National Academies analysis of Election Integrity Index
- Ballot Rejection - ballots rejected per 100 | d | 0-100 | Annual | Y | Y | EAC Election Data | EAC | EAC Election Administration Data | 2nd Reference Search String: National Academies analysis of Ballot Rejection Rate
- Voting Machine Malfunction Reports - incidents per 100,000 voters | d | 0-100,000 | Annual | Y | Y | EAC Voting Systems | EAC Voting Systems | EAC Voting Equipment Data | 2nd Reference Search String: National Academies analysis of Voting Machine Malfunction Reports
- Serious Voting Interference Convictions - convictions per 100,000 voters | d | 0-100,000 | Annual | Y | Y | DOJ Election Crimes Branch | DOJ Election Crimes | DOJ Election Crimes and Security | 2nd Reference Search String: National Academies analysis of Serious Voting Interference Convictions
- Voters in Local Elections Reporting Good Content Presentation - voters satisfied per 100 | i | 0-100 | Annual | Y | Y | State Election Surveys | NCSL Elections | NCSL Election Data | 2nd Reference Search String: National Academies analysis of Voters in Local Elections Reporting Good Content Presentation
- Voters in State Elections Reporting Good Content Presentation - voters satisfied per 100 | i | 0-100 | Annual | Y | Y | State Election Surveys | NCSL Elections | NCSL Election Data | 2nd Reference Search String: National Academies analysis of Voters in State Elections Reporting Good Content Presentation
- Voters in Federal Elections Reporting Good Content Presentation - voters satisfied per 100 | i | 0-100 | Annual | Y | Y | State Election Surveys | NCSL Elections | NCSL Election Data | 2nd Reference Search String: National Academies analysis of Voters in Federal Elections Reporting Good Content Presentation

## Civic Education and Engagement

- Civic Education in Schools - schools with curriculum per 100 | i | 0-100 | Annual | Y | Y | NCES Civic Education | NCES | NCES Civic Education Data | 2nd Reference Search String: National Academies analysis of Civic Education in Schools
- Public Confidence in Elections - residents expressing trust per 100 | i | 0-100 | Annual | Y | Y | Pew Political Trust | Pew Trust | Pew Research Election Confidence | 2nd Reference Search String: National Academies analysis of Public Confidence in Elections
- Participation in Local Elections - voters in municipal races per 100 | i | 0-100 | Annual | Y | Y | Local Election Data | NCSL Local Elections | NCSL Local Election Data | 2nd Reference Search String: National Academies analysis of Participation in Local Elections
- Participation Beyond Voting - residents engaged in electoral activities per 100 | i | 0-100 | Annual | Y | Y | State Election Data | NCSL Elections | NCSL Election Data | 2nd Reference Search String: National Academies analysis of Participation Beyond Voting

 [Back to Index](#)

## Political Corruption

◆ Effort Ideal: No Political Corruption

### Legal Accountability

- Investigations Initiated (Executive, Legislative, Judiciary, Attorneys, Police, Local Governments) - cases per 1,000 officials | d | 0-100 | Annual | Y | Y | State Ethics / DOJ Data | DOJ | DOJ Public Integrity Section Reports | 2nd Reference Search String: National Academies analysis of Investigations Initiated (Executive, Legislative, Judiciary, Attorneys, Police, Local Governments)
- Confidential Reprimands Issued (by branch) - reprimands per 100 officials | d | 0-50 | Annual | Y | Y | State Ethics Commissions | State Ethics | NCSL Ethics and Accountability | 2nd Reference Search String: National Academies analysis of Confidential Reprimands Issued (by branch)
- Adjudicatory Proceedings (by branch) - proceedings per 100 cases investigated | d | 0-50 | Annual | Y | Y | State Ethics Commissions | State Ethics | NCSL Ethics and Accountability | 2nd Reference Search String: National Academies analysis of Adjudicatory Proceedings (by branch)
- Cases Referred to Law Enforcement (by branch) - referrals per 100 cases investigated | d | 0-50 | Annual | Y | Y | DOJ / State Agencies | DOJ | DOJ Public Integrity Section Reports | 2nd Reference Search String: National Academies analysis of Cases Referred to Law Enforcement (by branch)
- Convictions (by branch) - convictions per 100 referrals | d | 0-50 | Annual | Y | Y | DOJ / State Agencies | DOJ | DOJ Criminal Division Data | 2nd Reference Search String: National Academies analysis of Convictions (by branch)
- Investigative Capacity/Need (by branch) - deficit of investigators per 100 cases (100 - investigators available) | i | 0-100 | Annual | Y | Y | State Ethics / DOJ Data | DOJ | DOJ Oversight Resources | 2nd Reference Search String: National Academies analysis of Investigative Capacity/Need (by branch)

### Serious Convictions

- Serious Convictions (Executive Branch) - convictions per 100 officials | d | 0-100 | Annual | Y | Y | DOJ / State Ethics Data | DOJ | DOJ Public Integrity Section Reports | 2nd Reference Search String: National Academies analysis of Serious Convictions (Executive Branch)

- Serious Convictions (Legislative Branch) - convictions per 100 legislators | d | 0-100 | Annual | Y | Y | DOJ / State Ethics Data | DOJ | DOJ Public Integrity Section Reports | 2nd Reference Search String: National Academies analysis of Serious Convictions (Legislative Branch)
- Serious Convictions (Judiciary) - convictions per 100 judges | d | 0-100 | Annual | Y | Y | DOJ / State Ethics Data | DOJ | DOJ Public Integrity Section Reports | 2nd Reference Search String: National Academies analysis of Serious Convictions (Judiciary)
- Serious Convictions (Attorneys) - convictions per 100 licensed attorneys | d | 0-100 | Annual | Y | Y | State Bar / DOJ Data | ABA | ABA Attorney Discipline Data | 2nd Reference Search String: National Academies analysis of Serious Convictions (Attorneys)
- Serious Convictions (Police) - convictions per 1,000 officers | d | 0-1,000 | Annual | Y | Y | DOJ Civil Rights / State Police Oversight | DOJ Civil Rights | DOJ Civil Rights Division | 2nd Reference Search String: National Academies analysis of Serious Convictions (Police)
- Serious Convictions (Urban/Local Governments) - convictions per 100 officials | d | 0-100 | Annual | Y | Y | State Ethics / DOJ Data | DOJ | DOJ Public Integrity Section Reports | 2nd Reference Search String: National Academies analysis of Serious Convictions (Urban/Local Governments)

#### Public Perception and Trust

- Corruption Perception Index - score per 100 (0 = high corruption, 100 = low corruption) | i | 0-100 | Annual | Y | Y | Transparency International | TI Index | Transparency International CPI | 2nd Reference Search String: National Academies analysis of Corruption Perception Index
- Public Trust in Government - residents expressing confidence per 100 | i | 0-100 | Annual | Y | Y | Pew Political Trust | Pew Trust | Pew Research Political Trust Data | 2nd Reference Search String: National Academies analysis of Public Trust in Government
- Perceived Fairness of Government Decisions - residents agreeing per 100 | i | 0-100 | Annual | Y | Y | Gallup Governance Poll | Gallup Governance | Gallup Governance Polls | 2nd Reference Search String: National Academies analysis of Perceived Fairness of Government Decisions


#### Transparency and Oversight

- Freedom of Information Compliance - requests fulfilled per 100 | i | 0-100 | Annual | Y | Y | FOIA.gov | FOIA | FOIA Annual Reports | 2nd Reference Search String: National Academies analysis of Freedom of Information Compliance

- Lobbying Disclosure Compliance - reports filed on time per 100 | i | 0-100 | Annual | Y | Y | Senate Lobbying Disclosure | Senate Lobbying | Senate Lobbying Disclosure Database | 2nd Reference Search String: National Academies analysis of Lobbying Disclosure Compliance
- Open Government Index - composite score per 100 | i | 0-100 | Annual | Y | Y | World Justice Project | WJP Index | World Justice Project Rule of Law Index | 2nd Reference Search String: National Academies analysis of Open Government Index

#### Influence and Ethics

- Political Donations from Corporations - dollars per registered voter per election cycle | d | 0-1,000 | Annual | Y | Y | OpenSecrets Corporate Data | OpenSecrets | OpenSecrets Corporate Contributions | 2nd Reference Search String: National Academies analysis of Political Donations from Corporations
- Revolving Door Employment - officials entering lobbying per 100 officials | d | 0-100 | Annual | Y | Y | OpenSecrets Revolving Door | OpenSecrets Revolving Door | OpenSecrets Revolving Door Database | 2nd Reference Search String: National Academies analysis of Revolving Door Employment
- Corporate Donation Share - dollars donated by corporations per \$1,000 total dollars raised | d | 0-500 | Annual | Y | Y | OpenSecrets Corporate Data | OpenSecrets | OpenSecrets Corporate Contributions | 2nd Reference Search String: National Academies analysis of Corporate Donation Share
- Conflict of Interest Disclosures Filed - officials compliant per 100 officials | i | 0-100 | Annual | Y | Y | State Ethics Boards | State Ethics | NCSL Ethics and Accountability | 2nd Reference Search String: National Academies analysis of Conflict of Interest Disclosures Filed

 [Back to Index](#)



## Communities

### ◆ Effort Ideal: Healthy, Participating Communities



#### Safety and Security

- Community Safety Index - composite score per 100 | i | 0-100 | Annual | Y | Y | Gallup Safety Poll | Gallup Safety | Gallup Crime and Safety Polls | 2nd Reference Search String: National Academies analysis of Community Safety Index
- Emergency Services Coverage - residents within service radius per 100 | i | 0-100 | Annual | Y | Y | USFA Fire Department Data | USFA | USFA Fire Department Statistics | 2nd Reference Search String: National Academies analysis of Emergency Services Coverage
- Neighborhood Watch Participation - communities enrolled per 100 | i | 0-100 | Annual | Y | Y | National Neighborhood Watch | Neighborhood Watch | National Neighborhood Watch Program | 2nd Reference Search String: National Academies analysis of Neighborhood Watch Participation
- Feel Safe in Community - residents reporting safety per 100 | i | 0-100 | Annual | Y | Y | State Surveys | State Surveys | CDC State Health Data | 2nd Reference Search String: National Academies analysis of Feel Safe in Community
- Overall Crime - incidents per 100,000 residents | d | 0-100,000 | Annual | Y | Y | FBI / BJS Crime Data | FBI Crime | BJS Crime Data | 2nd Reference Search String: National Academies analysis of Overall Crime
- Serious Crime Convictions - convictions per 100,000 residents | d | 0-100,000 | Annual | Y | Y | DOJ / FBI / BJS | DOJ Crime | DOJ Criminal Justice Data | 2nd Reference Search String: National Academies analysis of Serious Crime Convictions



#### Access and Inclusion

- Access to Public Amenities - residents within walking distance per 100 | i | 0-100 | Annual | Y | Y | Smart Growth America | Smart Growth | Smart Growth America Community Data | 2nd Reference Search String: National Academies analysis of Access to Public Amenities
- Public Transportation Coverage - residents served per 100 | i | 0-100 | Annual | Y | Y | FTA Transit Data | FTA Transit | FTA National Transit Database | 2nd Reference Search String: National Academies analysis of Public Transportation Coverage

- Community Center Availability - centers per 10,000 residents | g | 0-10,000 | Annual | Y | Y | Local Government Data | Local Gov | CDC State and Local Data | 2nd Reference Search String: National Academies analysis of Community Center Availability
- Housing Adequacy - households meeting standards per 100 | i | 0-100 | Annual | Y | Y | HUD / Census ACS | HUD Housing | Census ACS Housing Data | 2nd Reference Search String: National Academies analysis of Housing Adequacy
- Licensed Childcare Capacity – licensed childcare slots per 100 children under age 5 | i | 0–150 | Annual | Y | Y | State Licensing Agencies | <https://www.acf.hhs.gov/occ> | 2nd Reference Search String: National Academies analysis of Licensed Childcare Capacity
- Childcare Desert Index – children living in census tracts with insufficient childcare supply per 100 children | d | 0–100 | Annual | Y | Y | Center for American Progress / Census ACS | <https://www.americanprogress.org/> | 2nd Reference Search String: National Academies analysis of Childcare Deserts
- Substantiated Childcare Abuse Incidents – substantiated cases of abuse in licensed childcare settings per 1,000 children enrolled | d | 0–10 | Annual | Y | Y | State Child Protective Services / Licensing Agencies | <https://www.acf.hhs.gov/> | 2nd Reference Search String: National Academies analysis of Childcare Abuse Incidents
- Substantiated Childcare Neglect Incidents – substantiated cases of neglect in licensed childcare settings per 1,000 children enrolled | d | 0–10 | Annual | Y | Y | State Child Protective Services / Licensing Agencies | <https://www.acf.hhs.gov/> | 2nd Reference Search String: National Academies analysis of Childcare Neglect Incidents
- Serious Childcare Licensing Violations – serious safety-related licensing violations (supervision, background checks, facility hazards) per 100 licensed childcare facilities | d | 0–20 | Annual | Y | Y | State Licensing Agencies | <https://www.acf.hhs.gov/occ> | 2nd Reference Search String: National Academies analysis of Childcare Licensing Violations
- Improper Childcare Subsidy Payments – improper childcare subsidy payments per \$100 paid | d | 0–20 | Annual | Y | Y | HHS Office of Child Care | <https://www.acf.hhs.gov/occ> | 2nd Reference Search String: National Academies analysis of Childcare Improper Payments
- Parent Child Care Satisfaction – parents reporting satisfaction with childcare quality, safety, and reliability per 100 parents using childcare | i | 0–100 | Annual | Y | Y | Local Surveys / State Early Childhood Agencies | <https://www.acf.hhs.gov/> | 2nd Reference Search String: National Academies analysis of Parent Childcare Satisfaction



- Children in Poverty - children under 18 below poverty line per 100 | d | 0-100 | Annual | Y | Y | Census ACS / Kids Count | Kids Count | Kids Count Data Center | 2nd Reference Search String: National Academies analysis of Children in Poverty
- Overall Poverty - number of individuals below the federal poverty threshold per 100 population | d | 0-100 | Annual | Y | Y | Census ACS | Census ACS | Census Poverty Data | 2nd Reference Search String: National Academies analysis of Overall Poverty
- Homelessness - number of homeless individuals per 10,000 population | d | 0-10,000 | Annual | Y | Y | HUD PIT Counts | HUD PIT | HUD Point-in-Time Homeless Data | 2nd Reference Search String: National Academies analysis of Homelessness
- Children in Foster Care - children per 1,000 children | d | 0-1,000 | Annual | Y | Y | HHS / State Child Welfare Agencies | HHS Child Welfare | HHS Child Welfare Data | 2nd Reference Search String: National Academies analysis of Children in Foster Care

#### Public Space and Environment

- Quality of Public Spaces Index - composite score per 100 | i | 0-100 | Annual | Y | Y | Trust for Public Land | TPL | Trust for Public Land Research | 2nd Reference Search String: National Academies analysis of Quality of Public Spaces Index
- Park Access - residents within 10-minute walk per 100 | i | 0-100 | Annual | Y | Y | ParkScore Index | ParkScore | TPL ParkScore Index | 2nd Reference Search String: National Academies analysis of Park Access
- Green Space Coverage - land area covered per 100 acres | i | 0-100 | Annual | Y | Y | USGS Land Cover Data | USGS Land Cover | USGS National Land Cover Database | 2nd Reference Search String: National Academies analysis of Green Space Coverage
- Living with Polluted Water/Air - households affected per 100 | d | 0-100 | Annual | Y | Y | EPA / State Data | EPA Pollution | EPA Environmental Data | 2nd Reference Search String: National Academies analysis of Living with Polluted Water/Air
- Soil Erosion (Crop/Pasture) - acres eroded per 1,000 acres of cropland/pasture | d | 0-200 | Annual | Y | Y | NRCS / State Agriculture Data | NRCS | NRCS Soil and Water Data | 2nd Reference Search String: National Academies analysis of Soil Erosion (Crop/Pasture)
- Abandoned and Condemned Homes - homes per 1,000 housing units | d | 0-1,000 | Annual | Y | Y | HUD / Local Housing Authorities | HUD Housing | HUD Housing Data | 2nd Reference Search String: National Academies analysis of Abandoned and Condemned Homes

- Brownfield Sites - sites per 100,000 residents | d | 0-100,000 | Annual | Y | Y | EPA Brownfields Program | EPA Brownfields | EPA Brownfields Data | 2nd Reference Search String: National Academies analysis of Brownfield Sites

#### Means of Livelihood and Civic Support

- Labor Force Participation (Employed) - working-age residents in labor force per 100 people | i | 0-100 | Annual | Y | Y | BLS / Census ACS | BLS | Census ACS Labor Force Data | 2nd Reference Search String: National Academies analysis of Labor Force Participation
- Elderly in Poverty - seniors below poverty line per 100 | d | 0-100 | Annual | Y | Y | Census ACS | Census ACS | Census ACS Poverty Data | 2nd Reference Search String: National Academies analysis of Elderly in Poverty
- Illiteracy - adults illiterate per 100 | d | 0-100 | Annual | Y | Y | NCES Literacy Data | NCES Literacy | NCES Adult Literacy Data | 2nd Reference Search String: National Academies analysis of Illiteracy
- Junior Achievement Participation - students participating per 100 | i | 0-100 | Annual | Y | Y | Junior Achievement Reports | Junior Achievement | Junior Achievement Program Data | 2nd Reference Search String: National Academies analysis of Junior Achievement Participation
- Leadership Training Participation - adults participating per 100 | i | 0-100 | Annual | Y | Y | State Workforce Programs | State Workforce | CDC State Workforce Data | 2nd Reference Search String: National Academies analysis of Leadership Training Participation
- Small Business Owner's Assessment of Community Support - owners reporting positive support per 100 | i | 0-100 | Annual | Y | Y | State Surveys | State Surveys | CDC State Survey Data | 2nd Reference Search String: National Academies analysis of Small Business Owner's Assessment of Community Support
- Gross Product Change - dollars change per 1,000 residents per year | d | 0-50,000,000 | Annual | Y | Y | BEA / State Economic Data | BEA | BEA Regional Economic Data | 2nd Reference Search String: National Academies analysis of Gross Product Change
- Net Business Change - net new businesses per 1,000 residents per year | d | -50 to +50 | Annual | Y | Y | BEA / State Economic Data | BEA | BEA Business Dynamics Data | 2nd Reference Search String: National Academies analysis of Net Business Change

- Net Farm Change - net farm operations per 1,000 acres of farmland per year | d | -20 to +20 | Annual | Y | Y | USDA / State Agriculture Data | USDA | USDA Farm Data | 2nd Reference Search String: National Academies analysis of Net Farm Change
- Net Migration - inflow vs outflow per 1,000 residents per year | d | -50 to +50 | Annual | Y | Y | Census ACS Migration Data | Census ACS | Census Migration Data | 2nd Reference Search String: National Academies analysis of Net Migration

### Social Cohesion and Engagement

- Volunteerism - residents volunteering per 100 | i | 0-100 | Annual | Y | Y | AmeriCorps Civic Engagement | AmeriCorps | AmeriCorps Volunteering Data | 2nd Reference Search String: National Academies analysis of Volunteerism
- Community Event Participation - residents attending local events per 100 | i | 0-100 | Annual | Y | Y | Local Government Surveys | Local Gov | CDC State and Local Data | 2nd Reference Search String: National Academies analysis of Community Event Participation
- Sense of Belonging - residents reporting strong ties per 100 | i | 0-100 | Annual | Y | Y | Pew Social Trends | Pew Social | Pew Research Social Cohesion Data | 2nd Reference Search String: National Academies analysis of Sense of Belonging
- People You Can Rely On - residents reporting support per 100 | i | 0-100 | Annual | Y | Y | State Surveys | State Surveys | CDC State Survey Data | 2nd Reference Search String: National Academies analysis of People You Can Rely On
- Trust Others - residents expressing trust per 100 | i | 0-100 | Annual | Y | Y | Pew Social Trends | Pew Social | Pew Research Trust Data | 2nd Reference Search String: National Academies analysis of Trust Others
- Charitable Contributions - residents donating per 100 | i | 0-100 | Annual | Y | Y | IRS / State Surveys | IRS Charitable | IRS Charitable Statistics | 2nd Reference Search String: National Academies analysis of Charitable Contributions
- Express Civic Pride - residents expressing pride per 100 | i | 0-100 | Annual | Y | Y | State Surveys | State Surveys | CDC State Survey Data | 2nd Reference Search String: National Academies analysis of Express Civic Pride

### Health and Well-Being

- Medical Care Availability - primary care providers per 10,000 residents | g | 0-10,000 | Annual | Y | Y | HRSA AHRF | HRSA AHRF | HRSA Area Health Resource File | 2nd Reference Search String: National Academies analysis of Medical Care Availability

- Proximity to Medical Care - residents within 30 minutes per 100 | i | 0-100 | Annual | Y | Y | HRSA / State GIS | HRSA AHRF | HRSA Access to Care Data | 2nd Reference Search String: National Academies analysis of Proximity to Medical Care
- Substance Abuse (Smoking) - residents smoking per 100 | d | 0-100 | Annual | Y | Y | CDC BRFSS | CDC BRFSS | CDC BRFSS Tobacco Data | 2nd Reference Search String: National Academies analysis of Substance Abuse (Smoking)
- Substance Abuse (Alcohol) - residents drinking per 100 | d | 0-100 | Annual | Y | Y | CDC / State Health Data | CDC Alcohol | CDC Alcohol Data | 2nd Reference Search String: National Academies analysis of Substance Abuse (Alcohol)
- Substance Abuse (Drugs) - residents using drugs per 100 | d | 0-100 | Annual | Y | Y | SAMHSA / CDC | SAMHSA | SAMHSA Drug Use Data | 2nd Reference Search String: National Academies analysis of Substance Abuse (Drugs)
- Substance Abuse (Food/Obesity) - residents overweight/obese per 100 | d | 0-100 | Annual | Y | Y | CDC Nutrition Data | CDC Obesity | CDC Obesity Data | 2nd Reference Search String: National Academies analysis of Substance Abuse (Food/Obesity)

## Ways of Life and Cultural Opportunity

- Adults That Completed High School or Higher - adults age 25+ with high school diploma or higher per 100 adults | i | 0-100 | Annual | Y | Y | Census ACS | Census ACS | Census ACS Education Data | 2nd Reference Search String: National Academies analysis of Completed High School or Higher
- Divorce Involving Children - divorces per 1,000 families | d | 0-1,000 | Annual | Y | Y | State Vital Statistics | CDC Vital Stats | CDC Vital Statistics Data | 2nd Reference Search String: National Academies analysis of Divorce Involving Children
- Historic Sites Preserved - sites preserved per 100,000 residents per year | d | 0-50 | Annual | Y | Y | State Historic Preservation Offices | NPS Preservation | NPS Historic Preservation Data | 2nd Reference Search String: National Academies analysis of Historic Sites Preserved
- Museum/Festival/Performance Attendance - residents attending per 100 | i | 0-100 | Annual | Y | Y | State Cultural Agencies | NEA | NEA Arts Data | 2nd Reference Search String: National Academies analysis of Museum/Festival/Performance Attendance

- Voter Behavior in Federal, State, and Local Elections - turnout per 100 voters | i | 0-100  
| Annual | Y | Y | State Election Data | NCSL Elections | NCSL Election Data | 2nd  
Reference Search String: National Academies analysis of Voter Behavior in Federal, State,  
and Local Elections

[!\[\]\(8af806fb1314382d09bc5ec5b767526c\_img.jpg\) Back to Index](#)

## Public Stewardship

◆ Effort Ideal: All Parks, Preserves, and Public Lands Are Well Managed

### Park and Land Management

- Park Maintenance Scores - average condition rating per 100 facilities | i | 0-100 | Annual | Y | Y | National Park Service Metrics | NPS Facility Condition | NPS Facility Condition Data | 2nd Reference Search String: National Academies analysis of Park Maintenance Scores
- Public Land Acreage per Capita - acres per 1,000 residents | g | 0-1,000 | Annual | Y | Y | USGS Protected Areas Database | USGS PAD-US | USGS Protected Areas Database | 2nd Reference Search String: National Academies analysis of Public Land Acreage per Capita
- Trail Condition Ratings - trails rated good/excellent per 100 trails | i | 0-100 | Annual | Y | Y | US Forest Service Data | USFS Trails | USFS Trail Management Data | 2nd Reference Search String: National Academies analysis of Trail Condition Ratings
- Facilities Up-to-Standard - facilities meeting standards per 100 facilities | i | 0-100 | Annual | Y | Y | State Parks / Local Government Data | State Parks Reports | State Parks Data | 2nd Reference Search String: National Academies analysis of Facilities Up-to-Standard
- Infrastructure Up-to-Standard - infrastructure meeting standards per 100 units | i | 0-100 | Annual | Y | Y | State Parks / Local Government Data | Local Government Infrastructure | National League of Cities Infrastructure Data | 2nd Reference Search String: National Academies analysis of Infrastructure Up-to-Standard
- Public Land Management Cost (Deficit) - gap between benchmark need (\$2,500/acre/year) and actual dollars spent per acre | d | 0-2,500 | Annual | Y | Y | NPS / USFS / State Parks Financial Reports | NPS Budget | NPS Budget Data | 2nd Reference Search String: National Academies analysis of Public Land Management Cost (Deficit)
- Public Facility Management Cost (Deficit) - gap between benchmark need (\$5M/facility/year) and actual dollars spent per facility | d | 0-5,000,000 | Annual | Y | Y | NPS / USFS / State Parks Financial Reports | NPS Budget | NPS Budget Data | 2nd Reference Search String: National Academies analysis of Public Facility Management Cost (Deficit)
- Revenue from Public Assets (Deficit) - gap between benchmark potential (\$5M/1,000 visitors/year) and actual dollars generated per 1,000 visitors | d | 0-5,000,000 | Annual |

Y | Y | NPS / State Tourism / Local Government Data | NPS Visitor Spending | NPS Visitor Spending Effects | 2nd Reference Search String: National Academies analysis of Revenue from Public Assets (Deficit)

- Cost-to-Revenue Ratio - maintenance cost per 100 revenue units | d | 0-100 | Annual | Y | Y | NPS / State Parks / Tourism Agencies | State Parks Finance | State Parks Finance Data | 2nd Reference Search String: National Academies analysis of Cost-to-Revenue Ratio

### Visitor Experience

- Visitor Satisfaction Scores - visitors rating experience excellent per 100 visitors | i | 0-100 | Annual | Y | Y | NPS Visitor Use Statistics | NPS Visitor Use | NPS Visitor Use Statistics | 2nd Reference Search String: National Academies analysis of Visitor Satisfaction Scores
- Park Accessibility - population within 10 miles per 100 residents | i | 0-100 | Annual | Y | Y | Trust for Public Land | TPL ParkScore | TPL ParkScore Index | 2nd Reference Search String: National Academies analysis of Park Accessibility
- Recreational Facility Usage - visits per 1,000 residents | g | 0-1,000 | Annual | Y | Y | Local Parks and Rec Data | NRPA Facility Use | NRPA Facility Use Data | 2nd Reference Search String: National Academies analysis of Recreational Facility Usage

### Biodiversity and Habitat

- Biodiversity in Public Lands - species richness index per 100 species | i | 0-100 | Annual | Y | Y | USGS Biodiversity Data | USGS Biodiversity | USGS Biodiversity Data | 2nd Reference Search String: National Academies analysis of Biodiversity in Public Lands
- Invasive Species Management Success - targeted areas restored per 100 areas | i | 0-100 | Annual | Y | Y | USDA Invasive Species | USDA Invasive Species | USDA Invasive Species Data | 2nd Reference Search String: National Academies analysis of Invasive Species Management Success
- Habitat Connectivity Index - connectivity score per 100 | i | 0-100 | Annual | Y | Y | NatureServe Habitat Data | NatureServe | NatureServe Habitat Data | 2nd Reference Search String: National Academies analysis of Habitat Connectivity Index
- Serious Pest Events - major pest outbreaks per 1,000,000 acres of forest/public land per year | d | 0-50 | Annual | Y | Y | USDA Forest Service / APHIS Pest Data | USFS Forest Health | USFS Forest Health Data | 2nd Reference Search String: National Academies analysis of Serious Pest Events

## Stewardship Engagement

- Volunteer Hours in Public Lands - hours per 1,000 residents | g | 0-1,000 | Annual | Y | Y | AmeriCorps Environmental Programs | AmeriCorps Environment | AmeriCorps Environmental Volunteering | 2nd Reference Search String: National Academies analysis of Volunteer Hours in Public Lands
- Public Participation in Stewardship - population engaged per 100 residents | i | 0-100 | Annual | Y | Y | EPA Environmental Education | EPA EE | EPA Environmental Education Data | 2nd Reference Search String: National Academies analysis of Public Participation in Stewardship
- School Partnerships with Public Lands - schools involved per 100 schools | i | 0-100 | Annual | Y | Y | NPS Education Programs | NPS Education | NPS Education Programs | 2nd Reference Search String: National Academies analysis of School Partnerships with Public Lands

## Public Lands and Environmental Protection

- Rivers and Streams Impacted by Pollution - impaired rivers/streams per 100 | d | 0-100 | Annual | Y | Y | EPA Water Quality Data | EPA Water Quality | EPA Water Quality Data | 2nd Reference Search String: National Academies analysis of Rivers and Streams Impacted by Pollution
- Public Lakes Impacted by Pollution - impaired lakes per 100 | d | 0-100 | Annual | Y | Y | EPA Water Quality Data | EPA Lakes | EPA Water Quality Data | 2nd Reference Search String: National Academies analysis of Public Lakes Impacted by Pollution
- Public Lands Impacted by Pollution - acres impaired per 1,000 acres of public land per year | d | 0-200 | Annual | Y | Y | EPA / State Environmental Agencies | EPA Land | EPA Land Research Data | 2nd Reference Search String: National Academies analysis of Public Lands Impacted by Pollution
- Public Forests Under Best Management Practices - forests under BMP per 100 forests | i | 0-100 | Annual | Y | Y | USFS / State Forestry Agencies | USFS BMP | USFS Best Management Practices | 2nd Reference Search String: National Academies analysis of Public Forests Under Best Management Practices
- Arson/Careless Behavior Fires - acres burned per 1,000 acres of public land per year | d | 0-500 | Annual | Y | Y | USFS Fire Data / State Forestry Agencies | USFS Fire | USFS Fire Management Data | 2nd Reference Search String: National Academies analysis of Arson/Careless Behavior Fires



- Serious Crime on Public Assets - incidents per 100,000 visitors | d | 0-100,000 | Annual | Y | Y | DOJ / NPS / Local Law Enforcement | DOJ Crime | DOJ Crime Data | 2nd Reference Search String: National Academies analysis of Serious Crime on Public Assets
- Serious Accidents on Public Assets - incidents per 100,000 visitors | d | 0-100,000 | Annual | Y | Y | NPS Safety Reports / USFS / State Parks | NPS Safety | NPS Safety Data | 2nd Reference Search String: National Academies analysis of Serious Accidents on Public Assets

[!\[\]\(c8d96c8885d3000a912c2582004aed63\_img.jpg\) Back to Index](#)

## Amelioration (Remediation)

◆ Effort Ideal: All solid waste, sewage, wastewater, hazardous waste, and toxic chemicals are eliminated, properly recycled, or sequestered

### Hazardous Waste Management

- Hazardous Waste Reduction Rate - reduction per 100 units year-over-year | d | 0-100 | Annual | Y | Y | EPA RCRAInfo | EPA RCRAInfo | EPA RCRA Hazardous Waste Data | 2nd Reference Search String: National Academies analysis of Hazardous Waste Reduction Rate
- Hazardous Waste Treatment Compliance - facilities compliant per 100 facilities | i | 0-100 | Annual | Y | Y | EPA ECHO Data | EPA ECHO | EPA Enforcement and Compliance Data | 2nd Reference Search String: National Academies analysis of Hazardous Waste Treatment Compliance
- Toxic Chemical Release Inventory - pounds released per 1,000 residents per year | d | 0-10,000 | Annual | Y | Y | EPA TRI Explorer | EPA TRI | EPA TRI Data Explorer | 2nd Reference Search String: National Academies analysis of Toxic Chemical Release Inventory
- Non-Permitted Hazardous Waste Facilities - facilities non-compliant per 100 facilities | d | 0-100 | Annual | Y | Y | EPA RCRAInfo | EPA RCRAInfo | EPA RCRA Hazardous Waste Data | 2nd Reference Search String: National Academies analysis of Non-Permitted Hazardous Waste Facilities
- Hazardous Spills - incidents per 1,000 facilities per year | d | 0-100 | Annual | Y | Y | EPA Emergency Response Data | EPA Emergency Response | EPA Emergency Response Data | 2nd Reference Search String: National Academies analysis of Hazardous Spills
- Untreated Hazardous Waste Disposal - tons disposed untreated per 100 tons generated | d | 0-100 | Annual | Y | Y | EPA RCRAInfo / TRI Data | EPA TRI | EPA TRI Data Explorer | 2nd Reference Search String: National Academies analysis of Untreated Hazardous Waste Disposal

### Water and Sewage Systems

- Sewage Treatment Compliance - facilities in compliance per 100 facilities | i | 0-100 | Annual | Y | Y | EPA Clean Water Act Data | EPA CWA | EPA Clean Water Act Compliance | 2nd Reference Search String: National Academies analysis of Sewage Treatment Compliance

- Stormwater Management Effectiveness - runoff captured per 100 units runoff | i | 0-100 | Annual | Y | Y | EPA Green Infrastructure | EPA Green Infrastructure | EPA Green Infrastructure Data | 2nd Reference Search String: National Academies analysis of Stormwater Management Effectiveness
- Sewer Overflow Incidents - events per 1,000 miles of pipe | d | 0-1,000 | Annual | N | Y | Local Utility Reports | Local Utility Data | EPA NPDES Program | 2nd Reference Search String: National Academies analysis of Sewer Overflow Incidents
- Industrial Toxic Discharges - tons per 100 wastewater units | d | 0-100 | Annual | Y | Y | EPA NPDES Data | EPA NPDES | EPA NPDES Compliance Data | 2nd Reference Search String: National Academies analysis of Industrial Toxic Discharges
- Groundwater Contamination - impaired sites per 100 monitoring sites | d | 0-100 | Annual | Y | Y | USGS / EPA Groundwater Data | USGS Groundwater | USGS Groundwater Data | 2nd Reference Search String: National Academies analysis of Groundwater Contamination



#### Community Risk Reduction

- Brownfield Remediation Projects - sites remediated per 100 identified sites | i | 0-100 | Annual | Y | Y | EPA Brownfields Program | EPA Brownfields | EPA Brownfields Data | 2nd Reference Search String: National Academies analysis of Brownfield Remediation Projects
- Environmental Emergency Response Time - deficit hours per incident beyond benchmark target (12 hours) | d | 0-60 | Annual | Y | Y | EPA Emergency Response | EPA Emergency Response | EPA Emergency Response Data | 2nd Reference Search String: National Academies analysis of Environmental Emergency Response Time
- Public Exposure to Remediated Sites - exposed population per 100 residents | d | 0-100 | Annual | Y | Y | CDC Environmental Tracking | CDC Tracking | CDC Environmental Public Health Tracking | 2nd Reference Search String: National Academies analysis of Public Exposure to Remediated Sites
- Impoverished/Abandoned Urban Land - acres abandoned per 100 acres urban land | d | 0-100 | Annual | Y | Y | HUD / EPA Land Use Data | HUD Land Use | HUD Land Use Data | 2nd Reference Search String: National Academies analysis of Impoverished/Abandoned Urban Land

- Contaminated Waste Sites - reported sites per 100 sites | d | 0-100 | Annual | Y | Y | EPA Superfund / State Agencies | EPA Superfund | EPA Superfund Data | 2nd Reference Search String: National Academies analysis of Contaminated Waste Sites
- Closed Landfills Not Fully Retired - sites not retired per 100 closed landfills | d | 0-100 | Annual | Y | Y | EPA / State Solid Waste Agencies | EPA Landfills | EPA Landfill Data | 2nd Reference Search String: National Academies analysis of Closed Landfills Not Fully Retired
- Waste Tire Dumps / Abandoned Cars - sites per 100 waste sites | d | 0-100 | Annual | N | Y | EPA / Local Government Data | EPA Solid Waste | EPA Sustainable Materials Management | 2nd Reference Search String: National Academies analysis of Waste Tire Dumps / Abandoned Cars

#### Mineral and Land Use Impacts

- Mining Land Disturbed vs. Reclaimed - acres reclaimed per 100 disturbed acres | i | 0-100 | Annual | Y | Y | USGS / State Mining Agencies | USGS Mining | USGS Mining Data | 2nd Reference Search String: National Academies analysis of Mining Land Disturbed vs. Reclaimed
- Slurry Impoundments - closed sites per 100 impoundments | i | 0-100 | Annual | Y | Y | EPA / State Mining Agencies | EPA Mining | EPA Mining Data | 2nd Reference Search String: National Academies analysis of Slurry Impoundments
- Slag Heaps - reclaimed sites per 100 slag heaps | i | 0-100 | Annual | Y | Y | EPA / State Mining Agencies | EPA Mining | EPA Mining Data | 2nd Reference Search String: National Academies analysis of Slag Heaps
- Brownfields - remediated sites per 100 identified sites | i | 0-100 | Annual | Y | Y | EPA Brownfields Program | EPA Brownfields | EPA Brownfields Data | 2nd Reference Search String: National Academies analysis of Brownfields
- Mountain Tops Removed (Acres) - acres removed per 1,000 acres of mining land per year | d | 0-200 | Annual | Y | Y | USGS / State Mining Agencies | USGS Mining | USGS Mining Data | 2nd Reference Search String: National Academies analysis of Mountain Tops Removed

#### Toxic Releases and Sites

- Industrial Toxic Chemical Releases - tons released per 1,000 residents per year | d | 0-500 | Annual | Y | Y | EPA TRI Data | EPA TRI | EPA TRI Data Explorer | 2nd Reference Search String: National Academies analysis of Industrial Toxic Chemical Releases

- Toxic Spills - incidents per 1,000 facilities per year | d | 0-50 | Annual | Y | Y | EPA Emergency Response Data | EPA Emergency Response | EPA Emergency Response Data | 2nd Reference Search String: National Academies analysis of Toxic Spills
- Toxic Chemical Sites - contaminated sites per 100 sites | d | 0-100 | Annual | Y | Y | EPA Superfund / State Agencies | EPA Superfund | EPA Superfund Data | 2nd Reference Search String: National Academies analysis of Toxic Chemical Sites
- Hot Zones of Industrial Contamination - contaminated sites with population at risk per 100 residents | d | 0-100 | Annual | Y | Y | EPA Superfund / ATSDR Hazardous Sites | ATSDR Hazardous Sites | ATSDR Hazardous Sites Data | 2nd Reference Search String: National Academies analysis of Hot Zones of Industrial Contamination
- Potential Hazard Sites/Processes Not Yet Designated - sites/processes identified per 100 sites | d | 0-100 | Annual | N | Y | EPA Emerging Contaminants / State Watchlists | EPA Emerging Contaminants | EPA Contaminant Candidate List | 2nd Reference Search String: National Academies analysis of Potential Hazard Sites/Processes Not Yet Designated


#### Monitoring and Reporting

- Environmental Incident Reporting - reports per 10,000 residents | g | 0-10,000 | Annual | Y | Y | EPA Incident Data | EPA Incident Reporting | EPA Compliance and Enforcement Data | 2nd Reference Search String: National Academies analysis of Environmental Incident Reporting
- Public Access to Remediation Data - sites with online records per 100 sites | i | 0-100 | Annual | Y | Y | EPA Envirofacts | EPA Envirofacts | EPA Envirofacts Database | 2nd Reference Search String: National Academies analysis of Public Access to Remediation Data
- Inspection Capacity vs. Need (Sites) - inspectors per 100 sites needing inspection | i | 0-100 | Annual | Y | Y | EPA / State Agencies | EPA Enforcement | EPA Enforcement Data | 2nd Reference Search String: National Academies analysis of Inspection Capacity vs. Need
- Violations - violations per 100 facilities per year | d | 0-100 | Annual | Y | Y | EPA Enforcement | EPA Enforcement | EPA Enforcement and Compliance Data | 2nd Reference Search String: National Academies analysis of Violations

- Improper Disaster Relief Payments – improper payments in disaster relief programs per \$100 paid | d | 0–20 | Annual | Y | Y | FEMA / DHS OIG | <https://www.oig.dhs.gov/> | 2nd Reference Search String: National Academies analysis of Disaster Relief Improper Payments

#### Efficiency of Remediation

- Remediation Efficiency - sites restored per \$1,000,000 spent | g | 0-5 sites per \$1,000,000 | Annual | Y | Y | EPA / State Agencies | EPA Remediation | EPA Superfund Remediation Data | 2nd Reference Search String: National Academies analysis of Remediation Efficiency
- Waste Recycling Efficiency - recycled waste per 100 units generated | i | 0-100 | Annual | Y | Y | EPA Sustainable Materials Management | EPA SMM | EPA Sustainable Materials Management Data | 2nd Reference Search String: National Academies analysis of Waste Recycling Efficiency
- Cost-to-Risk Reduction Ratio - dollars per unit reduction in risk exposure per 1,000 residents protected | d | 0-1,000,000 | Annual | Y | Y | EPA / CDC Risk Assessment | EPA Risk Assessment | EPA Risk Assessment Guidance | 2nd Reference Search String: National Academies analysis of Cost-to-Risk Reduction Ratio

 [Back to Index](#)

## Process Adaptation (Prevention)

◆ Effort Ideal: All processes/products re-engineered to eliminate toxicity, accident potential, and waste

### Industrial Safety

- Safety Measures in High-Risk Industries - facilities with certified safety plans per 100 facilities | i | 0-100 | Annual | Y | Y | OSHA Safety Programs | OSHA Safety Programs | OSHA Safety and Health Management Systems | 2nd Reference Search String: National Academies analysis of Safety Measures in High-Risk Industries
- Reduction in Workplace Accidents - decrease in accidents per 100 workers year-over-year | d | 0-100 | Annual | Y | Y | BLS Injury and Illness Data | BLS Injuries | BLS Injury and Illness Data | 2nd Reference Search String: National Academies analysis of Reduction in Workplace Accidents
- Emergency Preparedness Drills - drills conducted per 100 facilities | g | 0-100 | Annual | Y | Y | FEMA Preparedness Data | FEMA Preparedness | FEMA Preparedness Resources | 2nd Reference Search String: National Academies analysis of Emergency Preparedness Drills
- Product-Related Injuries/Deaths - incidents per 100,000 population | d | 0-1,000 | Annual | Y | Y | CPSC Data | CPSC Injury Data | CPSC Injury Statistics | 2nd Reference Search String: National Academies analysis of Product-Related Injuries/Deaths
- Home-Related Injuries/Deaths - incidents per 100,000 population | d | 0-1,000 | Annual | Y | Y | CDC Injury Data | CDC Injury Data | CDC Injury Prevention Data | 2nd Reference Search String: National Academies analysis of Home-Related Injuries/Deaths
- Work-Related Injuries/Deaths - incidents per 100,000 workers | d | 0-1,000 | Annual | Y | Y | BLS Injury and Illness Data | BLS Injuries | BLS Injury and Illness Data | 2nd Reference Search String: National Academies analysis of Work-Related Injuries/Deaths
- Serious Industrial Accidents - catastrophic events per 1,000 facilities per year | d | 0-20 | Annual | Y | Y | OSHA / EPA / FEMA | EPA Accidents | EPA Risk Management Program Accident Data | 2nd Reference Search String: National Academies analysis of Serious Industrial Accidents

## Environmental Standards Compliance

- Environmental Standards Compliance - facilities compliant per 100 facilities | i | 0-100 | Annual | Y | Y | EPA ECHO Data | EPA ECHO | EPA Enforcement and Compliance Data | 2nd Reference Search String: National Academies analysis of Environmental Standards Compliance
- ISO 14001 Certification - facilities certified per 100 facilities | i | 0-100 | Annual | Y | N | ISO Environmental Management | ISO 14001 | ISO 14001 Environmental Management Standards | 2nd Reference Search String: National Academies analysis of ISO 14001 Certification
- Pollution Prevention Plan Adoption - facilities with plans per 100 facilities | i | 0-100 | Annual | Y | Y | EPA P2 Program | EPA P2 | EPA Pollution Prevention Program | 2nd Reference Search String: National Academies analysis of Pollution Prevention Plan Adoption
- Industrial Hazardous/Toxic Releases - tons released per 1,000 residents per year | d | 0-500 | Annual | Y | Y | EPA TRI Data | EPA TRI | EPA TRI Data Explorer | 2nd Reference Search String: National Academies analysis of Industrial Hazardous/Toxic Releases
- Industrial Hazardous/Toxic Waste Discharges - tons discharged per 100 wastewater units | d | 0-100 | Annual | Y | Y | EPA NPDES Data | EPA NPDES | EPA NPDES Program Data | 2nd Reference Search String: National Academies analysis of Industrial Hazardous/Toxic Waste Discharges
- Hazardous/Toxic Chemical Transfers - tons transferred per 1,000 facilities per year | d | 0-5,000 | Annual | Y | Y | EPA TRI Data | EPA TRI | EPA TRI Data Explorer | 2nd Reference Search String: National Academies analysis of Hazardous/Toxic Chemical Transfers
- Hazardous/Toxic Spills - incidents per 1,000 facilities per year | d | 0-50 | Annual | Y | Y | EPA Emergency Response Data | EPA Emergency Response | EPA Emergency Response Data | 2nd Reference Search String: National Academies analysis of Hazardous/Toxic Spills
- Non-Permitted Hazardous Waste Facilities - facilities non-compliant per 100 facilities | d | 0-100 | Annual | Y | Y | EPA RCRAInfo | EPA RCRAInfo | EPA RCRA Hazardous Waste Data | 2nd Reference Search String: National Academies analysis of Non-Permitted Hazardous Waste Facilities



- Untreated Hazardous Waste Disposal - tons Disposed untreated per 100 tons generated | d | 0-100 | Annual | Y | Y | EPA RCRAInfo / TRI Data | EPA TRI | EPA TRI Data Explorer | 2nd Reference Search String: National Academies analysis of Untreated Hazardous Waste Disposal
- Hot Zones of Industrial Contamination - contaminated sites with population at risk per 100 residents | d | 0-100 | Annual | Y | Y | EPA Superfund / ATSDR | ATSDR Hazardous Sites | ATSDR Hazardous Sites Data | 2nd Reference Search String: National Academies analysis of Hot Zones of Industrial Contamination
- Serious Environmental Violations - enforcement actions per 100 facilities | d | 0-100 | Annual | Y | Y | EPA Enforcement | EPA Enforcement | EPA Enforcement Data | 2nd Reference Search String: National Academies analysis of Serious Environmental Violations

#### Waste Management

- Part of Product as Waste - product mass wasted per 100 units | d | 0-100 | Annual | Y | Y | EPA Sustainable Materials Management | EPA SMM | EPA Sustainable Materials Management Data | 2nd Reference Search String: National Academies analysis of Part of Product as Waste
- Part of Process as Waste - process inputs wasted per 100 units | d | 0-100 | Annual | Y | Y | EPA Sustainable Materials Management | EPA SMM | EPA Sustainable Materials Management Data | 2nd Reference Search String: National Academies analysis of Part of Process as Waste
- Product/Process-Related Municipal Waste - tons generated per 1,000 residents per year | d | 0-2,000 | Annual | Y | Y | EPA Waste Generation Data | EPA Waste | EPA Waste and Recycling Data | 2nd Reference Search String: National Academies analysis of Product/Process-Related Municipal Waste
- Hazardous Waste Generated - tons per 1,000 residents per year | d | 0-500 | Annual | Y | Y | EPA RCRAInfo | EPA RCRAInfo | EPA RCRA Hazardous Waste Data | 2nd Reference Search String: National Academies analysis of Hazardous Waste Generated
- Hazardous Waste Rendered Non-Hazardous On Site - tons treated per 100 tons generated | i | 0-100 | Annual | Y | Y | EPA RCRAInfo | EPA RCRAInfo | EPA RCRA Hazardous Waste Data | 2nd Reference Search String: National Academies analysis of Hazardous Waste Rendered Non-Hazardous On Site

- Toxic Waste Generated - tons per 1,000 residents per year | d | 0-200 | Annual | Y | Y | EPA TRI Data | EPA TRI | EPA TRI Data Explorer | 2nd Reference Search String: National Academies analysis of Toxic Waste Generated
- Hazardous Waste from Product Maintenance - tons per 100 products maintained | d | 0-100 | Annual | Y | Y | EPA RCRAInfo / State Agencies | EPA RCRAInfo | EPA RCRA Hazardous Waste Data | 2nd Reference Search String: National Academies analysis of Hazardous Waste from Product Maintenance
- Hazardous Waste from Product Use - tons per 100 products used | d | 0-100 | Annual | Y | Y | EPA RCRAInfo / State Agencies | EPA RCRAInfo | EPA Hazardous Waste Data | 2nd Reference Search String: National Academies analysis of Hazardous Waste from Product Use
- Hazardous Waste from Product Disposal - tons per 100 products disposed | d | 0-100 | Annual | Y | Y | EPA RCRAInfo / State Agencies | EPA RCRAInfo | EPA Hazardous Waste Data | 2nd Reference Search String: National Academies analysis of Hazardous Waste from Product Disposal
- Hazardous Waste from Process Residuals - tons per 100 process units | d | 0-100 | Annual | Y | Y | EPA RCRAInfo / State Agencies | EPA RCRAInfo | EPA Hazardous Waste Data | 2nd Reference Search String: National Academies analysis of Hazardous Waste from Process Residuals

#### Innovation and Learning

- Investment in Environmental R&D - dollars invested per capita | g | 0-600 dollars per capita | Annual | Y | Y | NSF Science & Engineering Indicators | NSF Indicators | NSF Science & Engineering Indicators | 2nd Reference Search String: National Academies analysis of Investment in Environmental R&D
- Participation in Sustainability Training - workforce trained per 100 workers | i | 0-100 | Annual | Y | Y | DOE Industrial Assessment Centers | DOE IAC | DOE Industrial Assessment Centers | 2nd Reference Search String: National Academies analysis of Participation in Sustainability Training
- Technology Adoption Rate in Industry - facilities using clean tech per 100 facilities | i | 0-100 | Annual | Y | Y | DOE Clean Energy Manufacturing | DOE Clean Energy Manufacturing | DOE Clean Energy Manufacturing Data | 2nd Reference Search String: National Academies analysis of Technology Adoption Rate in Industry

## Transparency and Reporting

- Public Disclosure of Environmental Performance - firms publishing reports per 100 firms | i | 0-100 | Annual | Y | Y | GRI Sustainability Reports | GRI Reports | GRI Sustainability Reporting Standards | 2nd Reference Search String: National Academies analysis of Public Disclosure of Environmental Performance
- Third-Party Environmental Audits - audits per 1,000 facilities | g | 0-500 | Annual | Y | Y | EPA Audit Policy | EPA Audit Policy | EPA Audit Policy Guidance | 2nd Reference Search String: National Academies analysis of Third-Party Environmental Audits
- Community Right-to-Know Compliance - facilities reporting per 100 facilities | i | 0-100 | Annual | Y | Y | EPA EPCRA | EPA EPCRA | EPA EPCRA Program Data | 2nd Reference Search String: National Academies analysis of Community Right-to-Know Compliance
- Organizations Complying with Pretreatment Standards - facilities compliant per 100 facilities | i | 0-100 | Annual | Y | Y | EPA NPDES Pretreatment Program | EPA Pretreatment | EPA Pretreatment Program Data | 2nd Reference Search String: National Academies analysis of Organizations Complying with Pretreatment Standards
- Organizations Complying with Hazardous/Toxic Standards - facilities compliant per 100 facilities | i | 0-100 | Annual | Y | Y | EPA RCRAInfo / TRI Data | EPA RCRAInfo | EPA RCRA Hazardous Waste Data | 2nd Reference Search String: National Academies analysis of Organizations Complying with Hazardous/Toxic Standards

## Efficiency and Productivity

- Process Efficiency Index - useful output per 100 input units | i | 0-100 | Annual | Y | Y | DOE / EPA Industrial Efficiency Data | DOE Industrial Efficiency | DOE Advanced Manufacturing Office Data | 2nd Reference Search String: National Academies analysis of Process Efficiency Index
- Product Efficiency Index - performance per 100 resource units consumed | i | 0-100 | Annual | Y | Y | EPA Energy Star / DOT / Industry Data | EPA Energy Star | EPA Energy Star Program Data | 2nd Reference Search String: National Academies analysis of Product Efficiency Index
- Product Lifespan Measure - average years of use before replacement | g | 0-20 | Annual | Y | Y | CPSC / Industry Reports | CPSC Product Safety | CPSC Product Safety Data | 2nd Reference Search String: National Academies analysis of Product Lifespan Measure


- Productivity Corrected for Outsourcing - domestic productivity adjusted per 100 units offshored | d | 0-100 | Annual | Y | Y | BLS / BEA Accounts | BEA Productivity | BEA Productivity Data | 2nd Reference Search String: National Academies analysis of Productivity Corrected for Outsourcing
- Circular Economy Utilization - products/processes designed for reuse/recycling per 100 products | i | 0-100 | Annual | Y | Y | EPA Sustainable Materials Management | EPA SMM | EPA Circular Economy Data | 2nd Reference Search String: National Academies analysis of Circular Economy Utilization

#### Product Adaptation

- Automobile Adaptation Index - composite score per 100 | i | 0-100 | Annual | Y | Y | EPA / DOT / Auto Industry Data | EPA Vehicle Emissions | EPA Vehicle Emissions Data | 2nd Reference Search String: National Academies analysis of Automobile Adaptation Index
- Vehicle Maintenance Hazardous Waste - tons per 100 vehicles maintained | d | 0-100 | Annual | Y | Y | EPA RCRAInfo / DOT / State Agencies | EPA RCRAInfo | EPA RCRA Hazardous Waste Data | 2nd Reference Search String: National Academies analysis of Vehicle Maintenance Hazardous Waste
- Automotive Fuel Use - gallons consumed per vehicle-mile per year | d | 0-0.2 | Annual | Y | Y | EPA / DOT Fuel Economy Data | EPA Vehicle Emissions | EPA Fuel Economy Data | 2nd Reference Search String: National Academies analysis of Automotive Fuel Use
- Automotive Emissions - CO<sub>2</sub>, NO<sub>x</sub>, PM, metals, hydrocarbons per vehicle-mile per year | d | 0-2 | Annual | Y | Y | EPA / DOT Emissions Data | EPA Vehicle Emissions | EPA Emissions Data | 2nd Reference Search String: National Academies analysis of Automotive Emissions
- Aviation Fuel Use - gallons consumed per passenger-mile per year | d | 0-1 | Annual | Y | Y | FAA / EPA Aviation Data | FAA Aviation Data | FAA Aviation Environmental Data | 2nd Reference Search String: National Academies analysis of Aviation Fuel Use
- Aviation Emissions - CO<sub>2</sub>, NO<sub>x</sub>, PM, metals, hydrocarbons per passenger-mile per year | d | 0-5 | Annual | Y | Y | FAA / EPA Aviation Data | FAA Aviation Data | FAA Aviation Environmental Data | 2nd Reference Search String: National Academies analysis of Aviation Emissions

- Aircraft Maintenance Hazardous Waste - tons per 100 aircraft maintained | d | 0-100 | Annual | Y | Y | FAA / EPA / State Agencies | EPA RCRAInfo | EPA RCRA Hazardous Waste Data | 2nd Reference Search String: National Academies analysis of Aircraft Maintenance Hazardous Waste
- Maritime Fuel Use - gallons consumed per ton-mile per year | d | 0-0.5 | Annual | Y | Y | IMO / EPA Marine Transport Data | IMO Marine Data | IMO Marine Transport Data | 2nd Reference Search String: National Academies analysis of Maritime Fuel Use
- Maritime Emissions - CO<sub>2</sub>, NO<sub>x</sub>, PM, metals, hydrocarbons per ton-mile per year | d | 0-2 | Annual | Y | Y | IMO / EPA Marine Transport Data | IMO Marine Data | IMO Marine Transport Data | 2nd Reference Search String: National Academies analysis of Maritime Emissions
- Ship Maintenance Hazardous Waste - tons per 100 ships maintained | d | 0-100 | Annual | Y | Y | IMO / EPA / State Port Authorities | EPA RCRAInfo | EPA RCRA Hazardous Waste Data | 2nd Reference Search String: National Academies analysis of Ship Maintenance Hazardous Waste
- Food Production and Distribution Adaptation - sustainable supply chain per 100 supply chain units | i | 0-100 | Annual | Y | Y | USDA / FDA Food Systems Data | USDA Food Systems | USDA Food Systems Data | 2nd Reference Search String: National Academies analysis of Food Production and Distribution Adaptation
- Food System Hazardous Waste - tons per 100 facilities maintained | d | 0-100 | Annual | Y | Y | EPA RCRAInfo / USDA / FDA | EPA RCRAInfo | EPA RCRA Hazardous Waste Data | 2nd Reference Search String: National Academies analysis of Food System Hazardous Waste
- Food-Related Wastewater (Deep Well Injection) - gallons per Class I well per year | d | 0-1,000,000 | Annual | Y | Y | EPA UIC Program / State Agencies | EPA UIC | EPA UIC Program Data | 2nd Reference Search String: National Academies analysis of Food-Related Wastewater (Deep Well Injection)
- Industrial Food Additives - approved additives per 100 processed foods | d | 0-100 | Annual | Y | Y | FDA Food Additive Database | FDA Food Additives | FDA Food Additive Database | 2nd Reference Search String: National Academies analysis of Industrial Food Additives

- Body and Household Product Toxicity Index - products with toxic potential per 100 products | d | 0-100 | Annual | Y | Y | EPA Safer Choice / FDA Consumer Product Safety | EPA Safer Choice | EPA Safer Choice Program | 2nd Reference Search String: National Academies analysis of Body and Household Product Toxicity Index
- Product Innovation Rate - new products designed with reduced toxicity/waste per 100 new products | i | 0-100 | Annual | Y | Y | DOE / EPA Sustainable Product Design Programs | EPA Sustainable Products | EPA Sustainable Product Design Data | 2nd Reference Search String: National Academies analysis of Product Innovation Rate

 [Back to Index](#)

## Air Pollution

◆ Effort Ideal: No air pollution

### Emissions & Levels

- PM2.5 Concentration - micrograms per cubic meter (annual average concentration) | d | 0-100 | Annual | Y | Y | EPA Air Data | EPA Air Quality | EPA Outdoor Air Quality Data | 2nd Reference Search String: National Academies analysis of PM2.5 Concentration
- Ozone Exceedance Days - exceedance days per year (days above 70 ppb 8-hour standard) | d | 0-365 | Annual | Y | Y | EPA Air Quality Index | EPA AQI | EPA Air Quality System (AQS) | 2nd Reference Search String: National Academies analysis of Ozone Exceedance Days
- Air Toxics Emissions - pounds emitted per 1,000 residents per year | d | 0-10,000 | Annual | Y | Y | EPA National Air Toxics Assessment | EPA NATA | EPA National Air Toxics Assessment | 2nd Reference Search String: National Academies analysis of Air Toxics Emissions
- Air Emissions (Permitted vs. Violations) - tons released per 100 permitted facilities | d | 0-100 | Annual | Y | Y | EPA ECHO Data | EPA ECHO | EPA Enforcement and Compliance History Online (ECHO) | 2nd Reference Search String: National Academies analysis of Air Emissions (Permitted vs. Violations)

### Compliance & Oversight

- Air Quality Violations - violations per 100 facilities per year | d | 0-100 | Annual | Y | Y | EPA / State Agencies | EPA Enforcement | EPA Enforcement Data | 2nd Reference Search String: National Academies analysis of Air Quality Violations
- Air Quality Citizen Complaints - complaints per 10,000 residents | d | 0-10,000 | Annual | N | Y | State Environmental Agencies | State Air Complaints | EPA Air Quality Management Process | 2nd Reference Search String: National Academies analysis of Air Quality Citizen Complaints
- Inspection Capacity vs. Need (Air Pollution) - inspectors per 100 facilities needing inspection | i | 0-100 | Annual | Y | Y | EPA / State Agencies | EPA Enforcement | EPA Enforcement Capacity Data | 2nd Reference Search String: National Academies analysis of Inspection Capacity vs. Need (Air)

- Improper Environmental Grant Payments (Air) – improper payments in environmental grant programs per \$100 paid | d | 0–20 | Annual | Y | Y | EPA OIG | <https://www.epa.gov/oig> | 2nd Reference Search String: National Academies analysis of Environmental Grant Improper Payments

## Exposure & Health

- People Living with Air Exceeding Standards - residents exposed per 100 residents | d | 0-100 | Annual | Y | Y | EPA EJScreen | EPA EJScreen | EPA Environmental Justice Screening and Mapping Tool | 2nd Reference Search String: National Academies analysis of People Living with Air Exceeding Standards
- Asthma/Respiratory Illness Incidence - cases per 100,000 residents | d | 0-100,000 | Annual | Y | Y | CDC Environmental Tracking | CDC Tracking | CDC Environmental Public Health Tracking | 2nd Reference Search String: National Academies analysis of Asthma/Respiratory Illness Incidence
- Noise Pollution Exposure - residents above EPA standards per 100 residents | d | 0-100 | Annual | Y | Y | EPA Noise Guidelines | EPA Noise | EPA Noise Pollution Data | 2nd Reference Search String: National Academies analysis of Noise Pollution Exposure

 [Back to Index](#)



## Water Pollution

◆ Effort Ideal: No water pollution

### Violations & Discharges

- Water Quality Violations - systems with violations per 100 systems | d | 0-100 | Annual | Y | Y | EPA Safe Drinking Water | EPA SDWIS | EPA Safe Drinking Water Information System | 2nd Reference Search String: National Academies analysis of Water Quality Violations
- Wastewater Quality Violations - facilities with violations per 100 facilities | d | 0-100 | Annual | Y | Y | EPA NPDES Data | EPA NPDES | EPA NPDES Program Data | 2nd Reference Search String: National Academies analysis of Wastewater Quality Violations
- Discharges to Waterways - violations per 100 permits | d | 0-100 | Annual | Y | Y | EPA NPDES | EPA NPDES | EPA NPDES Program Data | 2nd Reference Search String: National Academies analysis of Discharges to Waterways
- Toxic Chemical Releases to Waterways - pounds released per 1,000 residents per year | d | 0-10,000 | Annual | Y | Y | EPA TRI Data | EPA TRI | EPA TRI Data Explorer | 2nd Reference Search String: National Academies analysis of Toxic Chemical Releases to Waterways
- Sewer Overflows - incidents per 1,000 miles of sewer line | d | 0-1,000 | Annual | N | Y | Local Utility Reports | EPA Sewer Overflows | EPA NPDES Sewer Overflow Data | 2nd Reference Search String: National Academies analysis of Sewer Overflows

### Contamination & Impacts

- Groundwater Contamination Incidents - incidents per 1,000 wells per year | d | 0-50 | Annual | Y | Y | USGS / EPA Groundwater Data | USGS Groundwater | USGS Groundwater Data | 2nd Reference Search String: National Academies analysis of Groundwater Contamination Incidents
- Stream and River Miles Impacted - impaired miles per 100 miles | d | 0-100 | Annual | Y | Y | EPA Watershed Data | EPA Watershed | EPA Watershed Assessment Data | 2nd Reference Search String: National Academies analysis of Stream and River Miles Impacted
- Public Lakes Impacted - impaired lakes per 100 monitored lakes | d | 0-100 | Annual | Y | Y | EPA Clean Lakes Program | EPA Lakes | EPA Clean Lakes Program | 2nd Reference Search String: National Academies analysis of Public Lakes Impacted

- Acidic Rainfall Measure - average pH units below neutral (7.0) per monitoring site per year | d | 0-7 | Annual | Y | Y | EPA Acid Rain Program | EPA Acid Rain | EPA Acid Rain Program Data | 2nd Reference Search String: National Academies analysis of Acidic Rainfall Measure
- Alkaline Rainfall Measure - average pH units above neutral (7.0) per monitoring site per year | d | 0-7 | Annual | Y | Y | EPA Acid Rain Program / Regional Monitoring | EPA Acid Rain | EPA Acid Rain Program Data | 2nd Reference Search String: National Academies analysis of Alkaline Rainfall Measure

### Public Experience

- Citizen Water Complaints - complaints per 10,000 residents | d | 0-10,000 | Annual | N | Y | State Environmental Agencies | State Water Complaints | EPA Water Data | 2nd Reference Search String: National Academies analysis of Citizen Water Complaints
- Swimming Advisories - advisories per 100 monitored beaches per year | d | 0-100 | Annual | Y | Y | EPA / Local Health Departments | EPA Beach Advisories | EPA Beach Advisory Data | 2nd Reference Search String: National Academies analysis of Swimming Advisories
- Fish Kills - incidents per 1,000 water bodies per year | d | 0-50 | Annual | N | Y | State Wildlife Agencies | State Wildlife | US Fish & Wildlife Service Data | 2nd Reference Search String: National Academies analysis of Fish Kills

### Oversight

- Stormwater Management Effectiveness - runoff captured per 100 units runoff | i | 0-100 | Annual | Y | Y | EPA Green Infrastructure | EPA Green Infrastructure | EPA Green Infrastructure Data | 2nd Reference Search String: National Academies analysis of Stormwater Management Effectiveness
- Inspection Capacity vs. Need (Water Pollution) - inspectors per 100 facilities needing inspection | i | 0-100 | Annual | Y | Y | EPA / State Agencies | EPA Enforcement | EPA Enforcement Data | 2nd Reference Search String: National Academies analysis of Inspection Capacity vs. Need (Water)
- Facilities - facilities non-compliant per 100 facilities | d | 0-100 | Annual | Y | Y | EPA RCRAInfo | EPA RCRAInfo | EPA RCRA Hazardous Waste Data | 2nd Reference Search String: National Academies analysis of Facilities

- Improper Environmental Grant Payments (Water) – improper payments in environmental grant programs per \$100 paid | d | 0–20 | Annual | Y | Y | EPA OIG | <https://www.epa.gov/oig> | 2nd Reference Search String: National Academies analysis of Environmental Grant Improper Payments

[←](#) Back to Index

## Land Pollution

◆ Effort Ideal: No land pollution

### Mining & Industrial Impacts

- Mining Land Disturbed vs. Reclaimed - acres reclaimed per 100 disturbed acres | i | 0-100 | Annual | Y | Y | USGS / State Mining Agencies | USGS Mining | USGS Mining and Minerals Data | 2nd Reference Search String: National Academies analysis of Mining Land Disturbed vs. Reclaimed
- Slurry Impoundments - closed sites per 100 impoundments | i | 0-100 | Annual | Y | Y | EPA / State Mining Agencies | EPA Mining | EPA Mining Program Data | 2nd Reference Search String: National Academies analysis of Slurry Impoundments
- Slag Heaps - reclaimed sites per 100 slag heaps | i | 0-100 | Annual | Y | Y | EPA / State Mining Agencies | EPA Mining | EPA Mining Program Data | 2nd Reference Search String: National Academies analysis of Slag Heaps
- Mountain Tops Removed (Acres) - acres removed per 1,000 acres of mining land per year | d | 0-10,000 | Annual | Y | Y | USGS / State Mining Agencies | USGS Mining | USGS Mining and Minerals Data | 2nd Reference Search String: National Academies analysis of Mountain Tops Removed
- Mountain Tops Removed (Residents) - acres removed per 1,000 residents per year | d | 0-500 | Annual | Y | Y | USGS / State Mining Agencies | USGS Mining | USGS Mining and Minerals Data | 2nd Reference Search String: National Academies analysis of Mountain Tops Removed
- Industrial/Toxic Chemical Releases to Land (Residents) - thousand pounds released per 1,000 residents per year | d | 0-10,000 | Annual | Y | Y | EPA TRI Data | EPA TRI | EPA TRI Data Explorer | 2nd Reference Search String: National Academies analysis of Industrial/Toxic Chemical Releases to Land
- Industrial/Toxic Chemical Releases to Land (Acres) - thousand pounds released per 1,000 acres of land area per year | d | 0-10,000 | Annual | Y | Y | EPA TRI Data | EPA TRI | EPA TRI Data Explorer | 2nd Reference Search String: National Academies analysis of Industrial/Toxic Chemical Releases to Land

## Waste & Disposal

- Municipal Solid Waste Generated vs. Collected - tons collected per 100 tons generated | i | 0-100 | Annual | Y | Y | EPA Waste Generation Data | EPA Waste | EPA Waste and Recycling Data | 2nd Reference Search String: National Academies analysis of Municipal Solid Waste Generated vs. Collected
- Disposal of Wastes at Land Farms/Transfer/Construction Sites (Residents) - thousand tons disposed per 1,000 residents per year | d | 0-5,000 | Annual | Y | Y | EPA / State Agencies | EPA Waste | EPA Sustainable Materials Management Data | 2nd Reference Search String: National Academies analysis of Disposal of Wastes at Land Farms/Transfer/Construction Sites
- Disposal of Wastes at Land Farms/Transfer/Construction Sites (Acres) - thousand tons disposed per 1,000 acres of land area per year | d | 0-5,000 | Annual | Y | Y | EPA / State Agencies | EPA Waste | EPA Sustainable Materials Management Data | 2nd Reference Search String: National Academies analysis of Disposal of Wastes at Land Farms/Transfer/Construction Sites
- Closed Landfills Not Fully Retired - sites not retired per 100 closed landfills | d | 0-100 | Annual | Y | Y | EPA / State Solid Waste Agencies | EPA Landfills | EPA Landfill Data | 2nd Reference Search String: National Academies analysis of Closed Landfills Not Fully Retired
- Waste Tire Dumps - sites per 100 waste sites | d | 0-100 | Annual | N | Y | EPA / Local Government Data | EPA Tires | EPA Tire Management Data | 2nd Reference Search String: National Academies analysis of Waste Tire Dumps
- Abandoned Vehicles - sites per 100 waste sites | d | 0-100 | Annual | N | Y | Local Government Data | Local Government Reports | EPA Sustainable Materials Management Data | 2nd Reference Search String: National Academies analysis of Abandoned Vehicles
- Litter Incidents - incidents per 100 residents per year | d | 0-100 | Annual | N | Y | Local Government Reports | EPA Litter | EPA Trash-Free Waters Program | 2nd Reference Search String: National Academies analysis of Litter Incidents
- Litter Collected - pounds collected per 1,000 residents per year | d | 0-10,000 | Annual | N | Y | Local Government Reports / Cleanup Programs | EPA Litter | EPA Trash-Free Waters Program | 2nd Reference Search String: National Academies analysis of Litter Collected

## Contaminated Sites

- Land Contamination Sites - sites per 1,000 square miles | d | 0-1,000 | Annual | Y | Y | EPA Superfund Sites | EPA Superfund | EPA Superfund Data | 2nd Reference Search String: National Academies analysis of Land Contamination Sites
- Soil Contamination Index - composite score per 100 | d | 0-100 | Annual | Y | Y | USDA Soil Health | USDA Soil Health | USDA Soil Health Data | 2nd Reference Search String: National Academies analysis of Soil Contamination Index
- Brownfields - remediated sites per 100 identified sites | i | 0-100 | Annual | Y | Y | EPA Brownfields Program | EPA Brownfields | EPA Brownfields Data | 2nd Reference Search String: National Academies analysis of Brownfields
- Contaminated Waste Sites - reported sites per 100 sites | d | 0-100 | Annual | Y | Y | EPA Superfund / State Agencies | EPA Superfund | EPA Superfund Data | 2nd Reference Search String: National Academies analysis of Contaminated Waste Sites
- Toxic Chemical Sites - contaminated sites per 100 sites | d | 0-100 | Annual | Y | Y | EPA Superfund / State Agencies | EPA Superfund | EPA Superfund Data | 2nd Reference Search String: National Academies analysis of Toxic Chemical Sites
- Unprotected Watersheds - unprotected watersheds per 100 watersheds | d | 0-100 | Annual | Y | Y | EPA Watershed Data | EPA Watershed | EPA Watershed Assessment Data | 2nd Reference Search String: National Academies analysis of Unprotected Watersheds

## Compliance & Oversight

- Open Dump Violations (Land Pollution) - violations per 1,000 facilities per year | d | 0-100 | Annual | N | Y | EPA / State Agencies | EPA Enforcement | EPA Enforcement Data | 2nd Reference Search String: National Academies analysis of Open Dump Violations
- Underground Storage Tanks - violations per 100 tanks | d | 0-100 | Annual | Y | Y | EPA UST Program | EPA UST | EPA Underground Storage Tank Program Data | 2nd Reference Search String: National Academies analysis of Underground Storage Tanks
- Hazardous/Toxic Waste Violations - violations per 100 facilities per year | d | 0-100 | Annual | Y | Y | EPA Enforcement | EPA Enforcement | EPA Enforcement Data | 2nd Reference Search String: National Academies analysis of Hazardous/Toxic Waste Violations

- Non-Permitted Hazardous Waste Facilities - facilities non-compliant per 100 facilities | d | 0-100 | Annual | Y | Y | EPA RCRAInfo | EPA RCRAInfo | EPA RCRA Hazardous Waste Data | 2nd Reference Search String: National Academies analysis of Non-Permitted Hazardous Waste Facilities
- Inspection Capacity vs. Need (Land Pollution) - inspectors per 100 sites needing inspection | i | 0-100 | Annual | Y | Y | EPA / State Agencies | EPA Enforcement | EPA Enforcement Capacity Data | 2nd Reference Search String: National Academies analysis of Inspection Capacity vs. Need (Land)
- Improper Environmental Grant Payments (Land) – improper payments in environmental grant programs per \$100 paid | d | 0–20 | Annual | Y | Y | EPA OIG | <https://www.epa.gov/oig> | 2nd Reference Search String: National Academies analysis of Environmental Grant Improper Payments

 [Back to Index](#)



## Food Pollution

◆ Effort Ideal: No food pollution



## Water & Drinking Supply

- Spring/Wells Exceeding Standards - wells exceeding standards per 100 wells | d | 0-100 | Annual | Y | Y | EPA / State Agencies | EPA Drinking Water | EPA Ground Water and Drinking Water Data | 2nd Reference Search String: National Academies analysis of Spring/Wells Exceeding Standards
- Households Not Served by Public Water - households unserved per 100 households | d | 0-100 | Annual | Y | Y | EPA / State Agencies | EPA Drinking Water | EPA Ground Water and Drinking Water Data | 2nd Reference Search String: National Academies analysis of Households Not Served by Public Water
- Public Water System Violations (At Tap) - systems with violations per 100 systems | d | 0-100 | Annual | Y | Y | EPA Safe Drinking Water | EPA SDWIS | EPA Safe Drinking Water Information System | 2nd Reference Search String: National Academies analysis of Public Water System Violations (At Tap)
- Drinking Water Advisories - advisories issued per 1,000 public water systems per year | d | 0-100 | Annual | Y | Y | EPA / Local Health Departments | EPA Drinking Water Advisories | EPA Drinking Water Advisory Data | 2nd Reference Search String: National Academies analysis of Drinking Water Advisories



## Food Contaminants

- Tissue Contaminant Levels in Fish - average contaminant load (mg/kg) per 100 fish samples | d | 0-100 | Annual | Y | Y | EPA / State Wildlife Agencies | EPA Fish Tissue | EPA Fish Tissue Data | 2nd Reference Search String: National Academies analysis of Tissue Contaminant Levels in Fish
- Pesticide/Herbicide Residue Violations in Produce - samples exceeding standards per 1,000 samples | d | 0-100 | Annual | Y | Y | USDA Pesticide Data Program | USDA PDP | USDA Pesticide Data Program | 2nd Reference Search String: National Academies analysis of Pesticide/Herbicide Residue Violations in Produce
- Beef/Pork/Chicken Contaminant Levels - samples exceeding standards per 1,000 samples | d | 0-100 | Annual | Y | Y | USDA Food Safety Inspection Service | USDA FSIS | USDA FSIS Inspection Data | 2nd Reference Search String: National Academies analysis of Beef/Pork/Chicken Contaminant Levels



- Additive Load in Food Products - additives exceeding safe thresholds per 100 products | d | 0-100 | Annual | Y | Y | FDA Food Additive Database | FDA Food Additives | FDA Food Additive Database | 2nd Reference Search String: National Academies analysis of Additive Load in Food Products
- Heavy Metal Contamination in Food - samples exceeding lead/mercury/cadmium standards per 1,000 samples | d | 0-50 | Annual | Y | Y | FDA / USDA | FDA Metals in Food | FDA Metals in Food Data | 2nd Reference Search String: National Academies analysis of Heavy Metal Contamination in Food

#### Food Safety & Oversight

- Food Safety Inspection Failures - establishments failing per 100 establishments | d | 0-100 | Annual | Y | Y | FDA Food Safety | FDA Food Safety | FDA Food Safety Data | 2nd Reference Search String: National Academies analysis of Food Safety Inspection Failures
- Industry Health Code Violations - violations per 100 facilities per year | d | 0-100 | Annual | Y | Y | FDA / USDA Food Safety | FDA Food Safety | FDA Food Safety Data | 2nd Reference Search String: National Academies analysis of Industry Health Code Violations
- Consumer Product Recalls Due to Toxins - recalls per 1,000 food products per year | d | 0-50 | Annual | Y | Y | CPSC Recall Data | CPSC Recalls | CPSC Recall Database | 2nd Reference Search String: National Academies analysis of Consumer Product Recalls Due to Toxins
- Inspection Capacity vs. Need (Food Pollution) - inspectors per 100 facilities needing inspection | i | 0-100 | Annual | Y | Y | FDA / USDA | FDA Inspections | FDA Food Inspection Data | 2nd Reference Search String: National Academies analysis of Inspection Capacity vs. Need (Food)
- Traceability of Food Supply Chains - facilities with full traceability systems per 100 facilities | i | 0-100 | Annual | Y | Y | FDA / USDA | FDA Food Traceability | FDA Food Traceability Rule | 2nd Reference Search String: National Academies analysis of Traceability of Food Supply Chains

#### Public Health Outcomes

- Fish/Produce/Meat Consumption Advisories - advisories issued per 1,000 food products per year | d | 0-100 | Annual | Y | Y | State Health Departments | State Health Advisories | CDC Environmental Health Services | 2nd Reference Search String: National Academies analysis of Fish/Produce/Meat Consumption Advisories

- Reported Food-Borne Disease Cases - cases per 100,000 residents per year | d | 0-1,000 | Annual | Y | Y | CDC Foodborne Illness Data | CDC Foodborne Illness | CDC Foodborne Illness Data | 2nd Reference Search String: National Academies analysis of Reported Food-Borne Disease Cases
- Hospitalizations Due to Foodborne Illness - hospitalizations per 100,000 residents per year | d | 0-100 | Annual | Y | Y | CDC Foodborne Illness Data | CDC Foodborne Illness | CDC Foodborne Illness Data | 2nd Reference Search String: National Academies analysis of Hospitalizations Due to Foodborne Illness
- Deaths Due to Foodborne Illness - deaths per 100,000 residents per year | d | 0-10 | Annual | Y | Y | CDC Foodborne Illness Data | CDC Foodborne Illness | CDC Foodborne Illness Data | 2nd Reference Search String: National Academies analysis of Deaths Due to Foodborne Illness

[← Back to Index](#)



## Exposure and Risk- Key Burden Measures

◆ Effort Ideal: No exposure



### Burden

- Urban vs. Non-Urban Toxicity Index - average toxicity score per 100 monitored sites (urban vs. non-urban comparison) | d | 0-100 | Annual | Y | Y | EPA EJScreen / CDC Environmental Tracking | EPA EJScreen | CDC Environmental Public Health Tracking | 2nd Reference Search String: National Academies analysis of Urban vs. Non-Urban Toxicity Index
- Population in High-Pollution Areas - residents exposed per 100 residents | d | 0-100 | Annual | Y | Y | EPA EJScreen | EPA EJScreen | EPA Environmental Justice Screening and Mapping Tool | 2nd Reference Search String: National Academies analysis of Population in High-Pollution Areas
- Children Exposed to Multiple Pollutants - children exposed per 100 children | d | 0-100 | Annual | Y | Y | CDC Environmental Tracking | CDC Tracking | CDC Environmental Public Health Tracking | 2nd Reference Search String: National Academies analysis of Children Exposed to Multiple Pollutants
- Pollution-Related Health Complaints - complaints per 10,000 residents | d | 0-10,000 | Annual | N | Y | State Health Departments | State Health Complaints | CDC National Center for Environmental Health | 2nd Reference Search String: National Academies analysis of Pollution-Related Health Complaints
- Occupational Exposure to Pollutants - workers exposed per 100 workers | d | 0-100 | Annual | Y | Y | OSHA / NIOSH | NIOSH Exposure | NIOSH Occupational Exposure Data | 2nd Reference Search String: National Academies analysis of Occupational Exposure to Pollutants
- Vulnerable Populations at Risk (Elderly, Immunocompromised) - residents at risk per 100 residents | d | 0-100 | Annual | Y | Y | CDC Environmental Health | CDC Environmental Health | CDC Environmental Health Data | 2nd Reference Search String: National Academies analysis of Vulnerable Populations at Risk (Elderly, Immunocompromised)
- Cumulative Exposure Index - composite score of multi-pollutant exposure per 100 | d | 0-100 | Annual | Y | Y | EPA / CDC | EPA Exposure | EPA Exposure Assessment Toolbox | 2nd Reference Search String: National Academies analysis of Cumulative Exposure Index

- Environmental Burden of Disease - DALYs (disability-adjusted life years) lost per 100,000 residents | d | 0-10,000 | Annual | Y | Y | WHO / CDC | WHO Burden of Disease | WHO Global Health Observatory Data | 2nd Reference Search String: National Academies analysis of Environmental Burden of Disease
- Economic Cost of Pollution Exposure - dollars lost per capita per year (with national/state totals) | d | 0-10,000 | Annual | Y | Y | EPA / BEA | EPA Economic Impacts | EPA Environmental Economics Data | 2nd Reference Search String: National Academies analysis of Economic Cost of Pollution Exposure



#### Response Capacity

- Best Management Practices Coverage - acres of land and miles of shoreline/waterways under BMPs per 100 eligible acres/miles | i | 0-100 | Annual | Y | Y | EPA / USDA / USGS | EPA BMPs | EPA Nonpoint Source BMPs | 2nd Reference Search String: National Academies analysis of Best Management Practices Coverage
- Reclamation Effectiveness - acres of land and water needing serious reclamation successfully reclaimed per 100 acres needing reclamation | i | 0-100 | Annual | Y | Y | EPA / USGS / State Agencies | EPA Reclamation | EPA Brownfields Program | 2nd Reference Search String: National Academies analysis of Reclamation Effectiveness
- Organizational Adaptation Rate - organizations adapting to regulations and nudges per 1,000 regulated organizations | i | 0-1,000 | Annual | Y | Y | EPA / DOE / Corporate Sustainability Reports | EPA Sustainability | DOE Sustainability Programs | 2nd Reference Search String: National Academies analysis of Organizational Adaptation Rate
- Species Recovery Ratio - species moved from endangered/threatened to unendangered per 100 endangered species | i | 0-100 | Annual | Y | Y | USFWS ECOS | USFWS ECOS | USFWS Endangered Species Recovery | 2nd Reference Search String: National Academies analysis of Species Recovery Ratio



[Back to Index](#)

## Species Pressure

◆ Effort Ideal: No species at risk or exotic pests

### Vascular Plants

- Federally Listed Endangered/Threatened Vascular Plants - species listed per 1,000 vascular plant species per year | d | 0-50 | Annual | Y | Y | USFWS ECOS | USFWS ECOS Plants | USFWS ECOS Plant Listings | 2nd Reference Search String: National Academies analysis of Federally Listed Endangered/Threatened Vascular Plants
- Rare Plant Species - species identified per 1,000 vascular plant species per year | d | 0-100 | Annual | Y | Y | NatureServe / State Natural Heritage Programs | NatureServe Explorer | NatureServe Plant Data | 2nd Reference Search String: National Academies analysis of Rare Plant Species
- Extinct/Extirpated Plant Species - species lost per 1,000 vascular plant species per year | d | 0-10 | Annual | Y | Y | USFWS / State Heritage Data | USFWS ECOS | USFWS ECOS Plant Listings | 2nd Reference Search String: National Academies analysis of Extinct/Extirpated Plant Species
- Exotic Plant Pests - new invasive species identified per 1,000 vascular plant species per year | d | 0-20 | Annual | Y | Y | USDA Invasive Plant Data | USDA Invasive Plants | USDA Invasive Plant Data | 2nd Reference Search String: National Academies analysis of Exotic Plant Pests
- Change in Plant Status - net change in listings per 1,000 vascular plant species per year | d | -20 to +20 | Annual | Y | Y | USFWS ECOS | USFWS ECOS | USFWS ECOS Plant Listings | 2nd Reference Search String: National Academies analysis of Change in Plant Status

### Birds

- Federally Listed Endangered/Threatened Birds - species listed per 1,000 bird species per year | d | 0-20 | Annual | Y | Y | USFWS ECOS | USFWS ECOS Birds | USFWS ECOS Bird Listings | 2nd Reference Search String: National Academies analysis of Federally Listed Endangered/Threatened Birds
- Rare Bird Species - species identified per 1,000 bird species per year | d | 0-50 | Annual | Y | Y | Audubon / State Wildlife Agencies | Audubon Birds | Audubon Bird Data | 2nd Reference Search String: National Academies analysis of Rare Bird Species

- Extinct/Extirpated Bird Species - species lost per 1,000 bird species per year | d | 0-5 | Annual | Y | Y | USFWS / State Heritage Data | USFWS ECOS | USFWS ECOS Bird Listings | 2nd Reference Search String: National Academies analysis of Extinct/Extirpated Bird Species
- Exotic Bird Pests - new invasive bird species identified per 1,000 bird species per year | d | 0-10 | Annual | Y | Y | USDA / State Wildlife Agencies | USDA Invasive Birds | USDA Invasive Bird Data | 2nd Reference Search String: National Academies analysis of Exotic Bird Pests
- Change in Bird Status - net change in listings per 1,000 bird species per year | d | -10 to +10 | Annual | Y | Y | USFWS ECOS | USFWS ECOS | USFWS ECOS Bird Listings | 2nd Reference Search String: National Academies analysis of Change in Bird Status

#### Amphibians/Reptiles

- Federally Listed Endangered/Threatened Amphibians/Reptiles - species listed per 1,000 amphibian/reptile species per year | d | 0-20 | Annual | Y | Y | USFWS ECOS | USFWS ECOS Amphibians/Reptiles | USFWS ECOS Amphibian/Reptile Listings | 2nd Reference Search String: National Academies analysis of Federally Listed Endangered/Threatened Amphibians/Reptiles
- Rare Amphibian/Reptile Species - species identified per 1,000 amphibian/reptile species per year | d | 0-50 | Annual | Y | Y | State Wildlife Agencies | State Wildlife Data | USFWS State Wildlife Data | 2nd Reference Search String: National Academies analysis of Rare Amphibian/Reptile Species
- Extinct/Extirpated Amphibians/Reptiles - species lost per 1,000 amphibian/reptile species per year | d | 0-5 | Annual | Y | Y | USFWS / State Heritage Data | USFWS ECOS | USFWS ECOS Amphibian/Reptile Listings | 2nd Reference Search String: National Academies analysis of Extinct/Extirpated Amphibians/Reptiles
- Exotic Amphibian/Reptile Pests - new invasive species identified per 1,000 amphibian/reptile species per year | d | 0-10 | Annual | Y | Y | USDA / State Wildlife Agencies | USDA Invasives | USDA Invasive Species Data | 2nd Reference Search String: National Academies analysis of Exotic Amphibian/Reptile Pests
- Change in Amphibian/Reptile Status - net change in listings per 1,000 amphibian/reptile species per year | d | -10 to +10 | Annual | Y | Y | USFWS ECOS | USFWS ECOS | USFWS ECOS Amphibian/Reptile Listings | 2nd Reference Search String: National Academies analysis of Change in Amphibian/Reptile Status

## Mussels

- Federally Listed Endangered/Threatened Mussels - species listed per 100 mussel species per year | d | 0-10 | Annual | Y | Y | USFWS ECOS | USFWS ECOS Mussels | USFWS ECOS Mussel Listings | 2nd Reference Search String: National Academies analysis of Federally Listed Endangered/Threatened Mussels
- Rare Mussel Species - species identified per 100 mussel species per year | d | 0-20 | Annual | Y | Y | State Wildlife Agencies | State Wildlife Data | USFWS State Wildlife Data | 2nd Reference Search String: National Academies analysis of Rare Mussel Species
- Extinct/Extirpated Mussels - species lost per 100 mussel species per year | d | 0-5 | Annual | Y | Y | USFWS / State Heritage Data | USFWS ECOS | USFWS ECOS Mussel Listings | 2nd Reference Search String: National Academies analysis of Extinct/Extirpated Mussels
- Exotic Mussel Pests - new invasive mussel species identified per 100 mussel species per year | d | 0-5 | Annual | Y | Y | USDA Aquatic Invasive Species Data | USDA Aquatic Invasives | USDA Aquatic Invasive Species Data | 2nd Reference Search String: National Academies analysis of Exotic Mussel Pests
- Change in Mussel Status - net change in listings per 100 mussel species per year | d | -5 to +5 | Annual | Y | Y | USFWS ECOS | USFWS ECOS | USFWS ECOS Mussel Listings | 2nd Reference Search String: National Academies analysis of Change in Mussel Status

## Freshwater Fish

- Federally Listed Endangered/Threatened Freshwater Fish - species listed per 1,000 freshwater fish species per year | d | 0-20 | Annual | Y | Y | USFWS ECOS | USFWS ECOS Fish | USFWS ECOS Fish Listings | 2nd Reference Search String: National Academies analysis of Federally Listed Endangered/Threatened Freshwater Fish
- Rare Freshwater Fish Species - species identified per 1,000 freshwater fish species per year | d | 0-50 | Annual | Y | Y | State Wildlife Agencies | State Wildlife Data | USFWS State Wildlife Data | 2nd Reference Search String: National Academies analysis of Rare Freshwater Fish Species
- Extinct/Extirpated Freshwater Fish - species lost per 1,000 freshwater fish species per year | d | 0-5 | Annual | Y | Y | USFWS / State Heritage Data | USFWS ECOS | USFWS ECOS Fish Listings | 2nd Reference Search String: National Academies analysis of Extinct/Extirpated Freshwater Fish

- Exotic Fish Pests - new invasive freshwater fish species identified per 1,000 freshwater fish species per year | d | 0-10 | Annual | Y | Y | USDA Aquatic Invasive Species Data | USDA Aquatic Invasives | USDA Aquatic Invasive Species Data | 2nd Reference Search String: National Academies analysis of Exotic Fish Pests
- Change in Fish Status - net change in listings per 1,000 freshwater fish species per year | d | -10 to +10 | Annual | Y | Y | USFWS ECOS | USFWS ECOS | USFWS ECOS Fish Listings | 2nd Reference Search String: National Academies analysis of Change in Fish Status

## Mammals

- Federally Listed Endangered/Threatened Mammals - species listed per 1,000 mammal species per year | d | 0-20 | Annual | Y | Y | USFWS ECOS | USFWS ECOS Mammals | USFWS ECOS Mammal Listings | 2nd Reference Search String: National Academies analysis of Federally Listed Endangered/Threatened Mammals
- Rare Mammal Species - species identified per 1,000 mammal species per year | d | 0-50 | Annual | Y | Y | State Wildlife Agencies | State Wildlife Data | USFWS State Wildlife Data | 2nd Reference Search String: National Academies analysis of Rare Mammal Species
- Extinct/Extirpated Mammals - species lost per 1,000 mammal species per year | d | 0-5 | Annual | Y | Y | USFWS / State Heritage Data | USFWS ECOS | USFWS ECOS Mammal Listings | 2nd Reference Search String: National Academies analysis of Extinct/Extirpated Mammals
- Exotic Mammal Pests - new invasive mammal species identified per 1,000 mammal species per year | d | 0-10 | Annual | Y | Y | USDA / State Wildlife Agencies | USDA Invasives | USDA Invasive Species Data | 2nd Reference Search String: National Academies analysis of Exotic Mammal Pests
- Change in Mammal Status - net change in listings per 1,000 mammal species per year | d | -10 to +10 | Annual | Y | Y | USFWS ECOS | USFWS ECOS | USFWS ECOS Mammal Listings | 2nd Reference Search String: National Academies analysis of Change in Mammal Status

## Habitat and Ecosystem Health

- Habitat Preservation Rate - acres protected per 1,000 acres of habitat per year | i | 0-50 | Annual | Y | Y | USGS Land Cover Data | USGS Land Cover | USGS National Land Cover Database | 2nd Reference Search String: National Academies analysis of Habitat Preservation Rate



- Habitat Fragmentation Index - fragmentation score per 100 | d | 0-100 | Annual | Y | Y | NatureServe Habitat Data | NatureServe | NatureServe Habitat Data | 2nd Reference Search String: National Academies analysis of Habitat Fragmentation Index
- Wetland Loss Rate - acres lost per 1,000 acres of wetlands per year | d | 0-50 | Annual | Y | Y | USFWS Wetlands Data | USFWS Wetlands | USFWS National Wetlands Inventory | 2nd Reference Search String: National Academies analysis of Wetland Loss Rate

#### Environmental Stressors

- Pollution in Critical Habitats - sites affected per 100 sites | d | 0-100 | Annual | Y | Y | EPA Ecological Indicators | EPA Ecological Indicators | EPA Ecological Research Indicators | 2nd Reference Search String: National Academies analysis of Pollution in Critical Habitats
- Invasive Species Spread Rate - new infestations per 1,000 sites surveyed per year | d | 0-50 | Annual | Y | Y | USDA Invasive Species Data | USDA Invasives | USDA Invasive Species Data | 2nd Reference Search String: National Academies analysis of Invasive Species Spread Rate
- Climate Vulnerability of Species - species at high risk per 100 species | d | 0-100 | Annual | Y | Y | USGS Climate Adaptation Science Centers | USGS Climate Adaptation | USGS Climate Adaptation Science Centers | 2nd Reference Search String: National Academies analysis of Climate Vulnerability of Species
- General Habitat Destruction Rate - acres lost per 1,000 acres of habitat per year | d | 0-50 | Annual | Y | Y | USGS / USDA Land Use Data | USGS Land Use | USGS Land Use Data | 2nd Reference Search String: National Academies analysis of General Habitat Destruction Rate

#### Conservation and Awareness

- Public Participation in Species Monitoring - population involved per 100 residents | i | 0-100 | Annual | Y | Y | USFWS Citizen Science | USFWS Citizen Science | USFWS Citizen Science Program | 2nd Reference Search String: National Academies analysis of Public Participation in Species Monitoring
- School-Based Conservation Programs - schools participating per 100 schools | i | 0-100 | Annual | Y | Y | State Education Departments | State Education Data | NCES Education Data | 2nd Reference Search String: National Academies analysis of School-Based Conservation Programs

- Public Awareness of Endangered Species - residents recognizing local species at risk per 100 residents | i | 0-100 | Annual | Y | N | Pew Environmental Awareness | Pew Environment | Pew Environmental Awareness Data | 2nd Reference Search String: National Academies analysis of Public Awareness of Endangered Species

[!\[\]\(529949c2c3dadbaa4e538e8c643454bc\_img.jpg\) Back to Index](#)

## Environment

### ◆ Effort Ideal: A Healthy, Protected Environment

#### Protected Areas and Land Use

- Protected Area Coverage - acres under formal protection per 100 acres of land | i | 0-100 | Annual | Y | Y | USGS Protected Areas Database | USGS PAD-US | USGS Protected Areas Database | 2nd Reference Search String: National Academies analysis of Protected Area Coverage
- Urban Sprawl Index - developed acres per 100 acres of urban land | d | 0-100 | Annual | Y | Y | Smart Growth America | Smart Growth America | Smart Growth America Reports | 2nd Reference Search String: National Academies analysis of Urban Sprawl Index
- Forest Cover Change Rate - acres of forest lost or gained per 100 acres year-over-year | d | 0-100 | Annual | Y | Y | USFS Forest Inventory | USFS FIA | USFS Forest Inventory and Analysis | 2nd Reference Search String: National Academies analysis of Forest Cover Change Rate
- Brownfield Coverage - identified brownfield sites per 1,000 square miles | d | 0-1,000 | Annual | Y | Y | EPA Brownfields Program | EPA Brownfields | EPA Brownfields Program Data | 2nd Reference Search String: National Academies analysis of Brownfield Coverage
- Brownfield Reclamation Rate - sites remediated per 100 identified brownfield sites per year | i | 0-100 | Annual | Y | Y | EPA Brownfields Program | EPA Brownfields | EPA Brownfields Program Data | 2nd Reference Search String: National Academies analysis of Brownfield Reclamation Rate
- Sites of Severe Land Pollution - contaminated sites per 1,000 square miles | d | 0-1,000 | Annual | Y | Y | EPA Superfund / State Agencies | EPA Superfund | EPA Superfund Data | 2nd Reference Search String: National Academies analysis of Sites of Severe Land Pollution

#### Environmental Quality

- Air Quality Index Compliance - days rated “good” per 100 monitored days | i | 0-100 | Annual | Y | Y | EPA Air Data | EPA Air Quality | EPA Outdoor Air Quality Data | 2nd Reference Search String: National Academies analysis of Air Quality Index Compliance
- Water Quality Index - water bodies meeting standards per 100 monitored water bodies | i | 0-100 | Annual | Y | Y | EPA Water Quality Data | EPA Water Quality | EPA Water Quality Data | 2nd Reference Search String: National Academies analysis of Water Quality Index

- Soil Health Index - acres with healthy soil per 100 acres | i | 0-100 | Annual | Y | Y | NRCS Soil Health | NRCS Soil Health | USDA NRCS Soil Health Data | 2nd Reference Search String: National Academies analysis of Soil Health Index
- Severe Air Pollution Incidents - hazardous exceedance days per 100 monitored days | d | 0-100 | Annual | Y | Y | EPA AQI | EPA AQI | EPA Air Quality System (AQS) | 2nd Reference Search String: National Academies analysis of Severe Air Pollution Incidents
- Severe Water Pollution Incidents - water bodies failing standards per 100 monitored water bodies | d | 0-100 | Annual | Y | Y | EPA Water Quality Data | EPA Water Quality | EPA Water Quality Data | 2nd Reference Search String: National Academies analysis of Severe Water Pollution Incidents
- Severe Land Pollution Incidents - contaminated sites per 1,000 square miles | d | 0-1,000 | Annual | Y | Y | EPA Superfund / State Agencies | EPA Superfund | EPA Superfund Data | 2nd Reference Search String: National Academies analysis of Severe Land Pollution Incidents
- Food Contamination Index - food samples exceeding safety thresholds per 100 tested samples | d | 0-100 | Annual | Y | Y | USDA / FDA Food Safety Data | FDA Food Safety | FDA Food Safety Data | 2nd Reference Search String: National Academies analysis of Food Contamination Index

#### Public Engagement and Behavior

- Conservation Program Participation - households enrolled per 100 households | i | 0-100 | Annual | Y | Y | EPA Energy Star Participation | EPA Energy Star | EPA Energy Star Program Data | 2nd Reference Search String: National Academies analysis of Conservation Program Participation
- Environmental Education in Schools - schools with curriculum per 100 schools | i | 0-100 | Annual | Y | Y | NCES Environmental Education | NCES | NCES Education Data | 2nd Reference Search String: National Academies analysis of Environmental Education in Schools
- Public Environmental Concern Index - residents expressing concern per 100 residents | i | 0-100 | Annual | Y | N | Gallup Environment Poll | Gallup Environment | Gallup Environment Poll Data | 2nd Reference Search String: National Academies analysis of Public Environmental Concern Index

- Business Environmental Participation Rate - firms engaged in sustainability per 100 firms | i | 0-100 | Annual | Y | Y | EPA / Corporate Sustainability Reports | EPA Sustainability | EPA Sustainable Materials Management Data | 2nd Reference Search String: National Academies analysis of Business Environmental Participation Rate

#### Monitoring and Enforcement

- Environmental Violation Rate - violations per 1,000 regulated facilities | d | 0-1,000 | Annual | Y | Y | EPA ECHO Data | EPA ECHO | EPA Enforcement and Compliance History Online (ECHO) | 2nd Reference Search String: National Academies analysis of Environmental Violation Rate
- Inspection Frequency of Regulated Sites - inspections per facility per year | g | 0-3 inspections per facility per year | Annual | Y | Y | EPA Compliance Monitoring | EPA Compliance | EPA Compliance Monitoring Data | 2nd Reference Search String: National Academies analysis of Inspection Frequency of Regulated Sites
- Public Access to Environmental Data - datasets online per 100 datasets | i | 0-100 | Annual | Y | Y | EPA Envirofacts | EPA Envirofacts | EPA Envirofacts Database | 2nd Reference Search String: National Academies analysis of Public Access to Environmental Data
- Repeat Environmental Violations Rate - facilities with multiple violations per 100 facilities | d | 0-100 | Annual | Y | Y | EPA ECHO Data | EPA ECHO | EPA Enforcement and Compliance History Online (ECHO) | 2nd Reference Search String: National Academies analysis of Repeat Environmental Violations Rate
- Improper Environmental Grant Payments – improper payments in environmental grant programs per \$100 paid | d | 0–20 | Annual | Y | Y | EPA OIG | <https://www.epa.gov/oig> | 2nd Reference Search String: National Academies analysis of Environmental Grant Improper Payments

 [Back to Index](#)



## Sustainability

### ◆ Effort Ideal: America Becomes a Sustainable Nation



#### Economic Sustainability

- Resource/Process Efficiency - useful output per 100 input units | i | 0-100 | Annual | Y | Y | DOE/EPA Industrial Efficiency | DOE Industrial Efficiency | EPA Sustainable Manufacturing | 2nd Reference Search String: National Academies analysis of Resource/Process Efficiency
- Waste Reduction - reduction per 100 units year-over-year | i | 0-100 | Annual | Y | Y | EPA Waste Diversion | EPA Waste Reduction | EPA Recycling and Waste Reduction | 2nd Reference Search String: National Academies analysis of Waste Reduction
- Green Investment (Per Capita) - dollars invested per resident per year | i | 0-10,000 | Annual | Y | Y | DOE Clean Energy Innovation | DOE Clean Energy | DOE Office of Energy Efficiency & Renewable Energy | 2nd Reference Search String: National Academies analysis of Green Investment (Per Capita)
- Green Investment (Relative to Expenditures) - dollars invested per \$10,000 in total state/national expenditures | i | 0-500 | Annual | Y | Y | DOE Clean Energy Innovation | DOE Clean Energy | DOE Office of Energy Efficiency & Renewable Energy | 2nd Reference Search String: National Academies analysis of Green Investment (Relative to Expenditures)
- Financial Performance of Sustainable Firms - ROI compared to baseline per 100 firms | i | 0-100 | Annual | Y | Y | SEC/GRI Reports | GRI Sustainability Reporting | GRI Sustainability Standards | 2nd Reference Search String: National Academies analysis of Financial Performance of Sustainable Firms
- System Effectiveness - sustainable outcomes achieved per 100 indicators | i | 0-100 | Annual | Y | Y | ICLEI/UN SDG Indicators | ICLEI Sustainability | UN SDG Indicators | 2nd Reference Search String: National Academies analysis of System Effectiveness



#### Social Sustainability

- Health and Well-Being - composite score per 100 health indicators | i | 0-100 | Annual | Y | Y | CDC/WHO Health Data | CDC Health Data | WHO Health Data | 2nd Reference Search String: National Academies analysis of Health and Well-Being

- Education and Training in Sustainability - schools/programs with sustainability per 100 schools | i | 0-100 | Annual | Y | Y | NCES/DOE | NCES Education | DOE Education | 2nd Reference Search String: National Academies analysis of Education and Training in Sustainability
- Inclusive Growth - disadvantaged groups benefiting per 100 groups | i | 0-100 | Annual | Y | Y | Census/BLS | US Census | BLS Equity Indicators | 2nd Reference Search String: National Academies analysis of Inclusive Growth
- Personal Adaptation - households adopting sustainable practices per 100 households | i | 0-100 | Annual | Y | Y | EPA Sustainability Programs | EPA Sustainability | EPA Sustainability Programs | 2nd Reference Search String: National Academies analysis of Personal Adaptation
- Community Engagement - communities active per 100 communities | i | 0-100 | Annual | Y | Y | ICLEI Local Governments | ICLEI | ICLEI Local Government Data | 2nd Reference Search String: National Academies analysis of Community Engagement
- Resource Conservation Participation - households conserving per 100 households | i | 0-100 | Annual | Y | Y | USGS/EPA Energy Star | USGS Water Use | EPA Energy Star | 2nd Reference Search String: National Academies analysis of Resource Conservation Participation

#### Environmental Sustainability

- Carbon Footprint - metric tons CO<sub>2</sub> emitted per capita per year | d | 0-50 | Annual | Y | Y | EPA GHG Inventory | EPA GHG Inventory | EPA Greenhouse Gas Inventory | 2nd Reference Search String: National Academies analysis of Carbon Footprint
- Methane Footprint - metric tons CH<sub>4</sub> emitted per capita per year | d | 0-5 | Annual | Y | Y | EPA GHG Inventory | EPA GHG Inventory | EPA Greenhouse Gas Inventory | 2nd Reference Search String: National Academies analysis of Methane Footprint
- Biodiversity/Habitat Protection - land/water protected per 100 acres | i | 0-100 | Annual | Y | Y | USGS/USFWS | USGS Biodiversity | USFWS | 2nd Reference Search String: National Academies analysis of Biodiversity/Habitat Protection
- Pollution Reduction - reduction in pollutants per 100 monitored sites | i | 0-100 | Annual | Y | Y | EPA/USDA/USGS | EPA Pollution Data | USDA Food Safety | 2nd Reference Search String: National Academies analysis of Pollution Reduction

- Brownfield Reclamation - sites remediated per 100 identified sites | i | 0-100 | Annual | Y | Y | EPA Brownfields Program | EPA Brownfields | EPA Brownfields Program Data | 2nd Reference Search String: National Academies analysis of Brownfield Reclamation
- Renewable Energy Adoption (Sustainability) - renewable energy share per 100 total energy units | i | 0-100 | Annual | Y | Y | EIA Renewable Data | EIA Renewables | EIA Renewable Energy Data | 2nd Reference Search String: National Academies analysis of Renewable Energy Adoption
- Effective Waste Management - waste properly managed per 100 waste units | i | 0-100 | Annual | Y | Y | EPA Waste Management | EPA Waste | EPA Recycling and Waste Management | 2nd Reference Search String: National Academies analysis of Effective Waste Management
- Severe Environmental Incidents - critical contamination events per 1,000 regulated facilities | d | 0-10 | Annual | Y | Y | EPA/USDA/FDA | EPA Environmental Data | FDA Food Safety | 2nd Reference Search String: National Academies analysis of Severe Environmental Incidents

#### Policy and Governance

- Sustainability Policy Adoption - municipalities adopting policies per 100 municipalities | i | 0-100 | Annual | Y | Y | ICLEI Local Governments | ICLEI | ICLEI Local Government Data | 2nd Reference Search String: National Academies analysis of Sustainability Policy Adoption
- Compliance and Reporting - firms publishing sustainability reports per 100 firms | i | 0-100 | Annual | Y | Y | GRI Reports | GRI Reporting | GRI Sustainability Standards | 2nd Reference Search String: National Academies analysis of Compliance and Reporting
- Stakeholder Involvement - stakeholders engaged per 100 stakeholders | i | 0-100 | Annual | Y | Y | ICLEI/UN SDG Indicators | UN SDG Indicators | UN SDG Indicator Database | 2nd Reference Search String: National Academies analysis of Stakeholder Involvement
- Innovation and R&D (Per Capita) - dollars invested per resident per year | i | 0-10,000 | Annual | Y | Y | DOE Clean Energy Innovation | DOE Clean Energy | DOE Office of Energy Efficiency & Renewable Energy | 2nd Reference Search String: National Academies analysis of Innovation and R&D (Per Capita)



- Innovation and R&D (Relative to Expenditures) - dollars invested per \$10,000 in total state/national expenditures | i | 0-500 | Annual | Y | Y | DOE Clean Energy Innovation | DOE Clean Energy | DOE Office of Energy Efficiency & Renewable Energy | 2nd Reference Search String: National Academies analysis of Innovation and R&D (Relative to Expenditures)
- Business Sustainability Participation - firms engaged in sustainability programs per 100 firms | i | 0-100 | Annual | Y | Y | EPA/Corporate Reports | EPA Sustainability | EPA Sustainability Programs | 2nd Reference Search String: National Academies analysis of Business Sustainability Participation
- Repeat Sustainability Violations - firms with multiple violations per 100 firms | d | 0-100 | Annual | Y | Y | EPA ECHO/GRI Reports | EPA ECHO | EPA Enforcement and Compliance History Online (ECHO) | 2nd Reference Search String: National Academies analysis of Repeat Sustainability Violations

[← Back to Index](#)