



Vibrancy Index

Community Indicators + Sustainable Development Goal (SDG) alignment

This table provides additional detailed documentation on indicators used to calculate the Vibrancy Index found at vibrancy.newsunrising.org. Since 2019, the Vibrancy Index data set has evolved based on the feedback, conversations, and experiences with over 100 grassroots leaders, nonprofit intermediaries, community development consultants, university students and faculty, and data experts across southwestern PA. New Sun Rising acknowledges the limitations and imperfect nature of these data sets. As a learning organization we view the Vibrancy Portal project as dynamic and welcome community input to continue improving the available information, insights, and practical benefits of the platform.

Measures that are highlighted in red have been identified as desirable by the community but a census level data source has not been located. Want to help contribute to this project? Have a recommended data source to include or a suggestion to make it better?

Email us at info@newsunrising.org.

Sustainable Development Goal (SDG)	Vibrancy Index	Measure ID	Measure Description	Exact Definition	SDG Target	Source
Federal Environmental Justice (Disadvantaged) Census Tract	N/A	N/A	Designation as a Federally recognized Environmental Justice Disadvantaged census tract <i>(note - this designation was terminated by federal executive order in 2025)</i>	Census tracts that are overburdened and underserved according to data on the Climate & Economic Justice Screening Tool. Designation is 'True' or 'False'. Some tracts are listed as 'Partial' as 2010 census tract boundaries are used by the Climate & Economic Justice		Climate & Economic Justice Screening Tool (Council on Environmental Quality) <i>(note - this tool was removed by the EPA in 2025)</i>



				Screening Tool and the 2020 census tracts used by the Vibrancy Index do not correspond exactly.		
Goal 1: No Poverty	Opportunity	1.2.1n1	Poverty level of families and single-women headed households	Average of % of families considered poor and single-women-headed households considered poor	1.2 By 2030, reduce at least by half the proportion of men, women, and children of all ages living in poverty in all its dimensions according to national definitions	US Census API - ACS 2020
Goal 1: No Poverty	Opportunity		Youth poverty		1.2 By 2030, reduce at least by half the proportion of men, women, and children of all ages living in poverty in all its dimensions according to national definitions	US Census API - ACS 2020
Goal 1: No Poverty	Opportunity	1.3.1n3	Percentage of population receiving TANF	% of household receiving TANF benefits	1.3 Implement nationally appropriate social protection systems and measures for all, including floors, and by 2030 achieve substantial coverage of the poor and the vulnerable	US Census API - ACS 2020
Goal 1: No Poverty	Opportunity	1.3.1n4	Percent of people covered by at least one social protection benefit	% of household receiving SNAP benefits	1.3 Implement nationally appropriate social protection systems and measures for all, including floors, and by 2030 achieve substantial coverage of the poor and the vulnerable	US Census API - ACS 2020
Goal 1: No Poverty	Opportunity	1.4.2	Homeownership rate		1.4 By 2030, ensure that all men and women, in particular the poor and the vulnerable, have equal rights to economic resources, as well as access to basic services, ownership and control over land	US Census API - ACS 2020



					and other forms of property, inheritance, natural resources, appropriate new technology and financial services, including Microfinance.	
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Goal 2: Zero Hunger	Culture	2.1	Percent of population receiving SNAP benefits	% of households receiving SNAP benefits	2.1 By 2030, end hunger and ensure access by all people, in particular the poor and people in vulnerable situations, including infants, to safe, nutritious and sufficient food all year round.	US Census API - ACS 2020
Goal 2: Zero Hunger	Culture	2.2	Percent of adult population (≥ 18) that is obese	% of Adults (≥ 18) that are obese	2.1 By 2030, end hunger and ensure access by all people, in particular the poor and people in vulnerable situations, including infants, to safe, nutritious and sufficient food all year round.	CDC Places
Goal 2: Zero Hunger	Culture		Percent of women who are obese	% of Women Adults (≥ 18) that are obese	2.1 By 2030, end hunger and ensure access by all people, in particular the poor and people in vulnerable situations, including infants, to safe, nutritious and sufficient food all year round.	

Goal 3: Good Health & Wellbeing	Culture	3.4.1n1	Percent of people with cardiovascular disease	% of Adults (≥ 18) who Experienced Coronary Heart Disease	3.4 By 2030, reduce by one third premature mortality from non-communicable diseases through prevention and treatment and promote mental health and well-being.	CDC Places
Goal 3: Good Health & Wellbeing	Culture	3.4.1n2	Percent of people with cancer	% of Adults (≥ 18) with Cancer (except skin)	3.4 By 2030, reduce by one third premature mortality from	CDC Places



					non-communicable diseases through prevention and treatment and promote mental health and well-being.	
Goal 3: Good Health & Wellbeing	Culture	3.4.1n3	Percent of people with diabetes disease	% of Adults (≥ 18) diagnosed with diabetes	3.4 By 2030, reduce by one third premature mortality from non-communicable diseases through prevention and treatment and promote mental health and well-being.	CDC Places
Goal 3: Good Health & Wellbeing	Culture	3.5.1n3	Number or percent of people who are experiencing issues with substance abuse and/or addiction	Binge drinking among adults aged ≥ 18 years	3.5 Strengthen the prevention and treatment of substance abuse, including narcotic drug abuse and harmful use of alcohol.	CDC Places
Goal 3: Good Health & Wellbeing	Culture		Infant mortality rate		3.2 By 2030, end preventable deaths of newborns and children under 5 years of age, with all countries aiming to reduce neonatal mortality to at least as low as 12 per 1,000 live births and under-5 mortality to at least as low as 25 per 1,000 live births.	
Goal 3: Good Health & Wellbeing	Culture		Suicide rate			

Goal 4: Quality Education	Opportunity	4.2.2n1	Percentage of 2, 3, and 4 year children attending preschool programs	% of 3 and 4 children attending preschool programs	4.2 By 2030, ensure that all girls and boys have access to quality early childhood development, care and pre-primary education so that they are ready for primary education	US Census API - ACS 2020
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Goal 4: Quality Education	Opportunity	4.3.1n1	Percentage of adults with did not complete high school or high school equivalency	% of Adults (≥ 25) that did not complete high school or equivalent, as % of the total adult population	4.1 By 2030, ensure that all girls and boys complete free, equitable and quality primary and secondary education leading to relevant and effective learning outcomes.	US Census API - ACS 2020
Goal 4: Quality Education	Opportunity	4.3.1n2	Percentage of adults that the highest educational level is high school or high school equivalency	% of Adults (≥ 25) that only complete high school or equivalent, as % of the total adult population	4.3 By 2030, ensure equal access for all women and men to affordable and quality technical, vocational and tertiary education, including university.	US Census API - ACS 2020
Goal 4: Quality Education	Opportunity	4.3.1n3	Percentage of adults who have attending college	% of Adults (≥ 25) that attended college but didn't earn a degree, as % of the total adult population	4.3 By 2030, ensure equal access for all women and men to affordable and quality technical, vocational and tertiary education, including university.	US Census API - ACS 2020
Goal 4: Quality Education	Opportunity	4.3.1n4	Percentage of adults who have earned a 1 year or 2 year professional certificate or an Associates Degree	% of Adults (≥ 25) that earned an Associate's degree, as % of the total adult population	4.3 By 2030, ensure equal access for all women and men to affordable and quality technical, vocational and tertiary education, including university.	US Census API - ACS 2020
Goal 4: Quality Education	Opportunity	4.3.1n5	Percentage of adults who have earned a 4 year degree	% of Adults (≥ 25) that earned a Bachelor degree, as % of the total adult population	4.3 By 2030, ensure equal access for all women and men to affordable and quality technical, vocational and tertiary education, including university.	US Census API - ACS 2020
Goal 4: Quality Education	Opportunity	4.3.1n6	Percentage of adults who have earned a Graduate degree or higher	% of Adults (≥ 25) that earned a Master's, Professional or Doctorate degree, as % of the total adult population	4.3 By 2030, ensure equal access for all women and men to affordable and quality technical, vocational and tertiary education, including university.	US Census API - ACS 2020
Goal 4: Quality Education	Opportunity		Dollars spent per student (K-12)			



Goal 4: Quality Education	Opportunity		Percentage of students who are proficient in reading and math			
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Goal 5: Gender Equality	Culture	5.1.1	Median earnings gap between women and men (5.1)	Difference median income men/women	5.A Undertake reforms to give women equal rights to economic resources, as well as access to ownership and control over land and other forms of property, financial services, inheritance and natural resources, in accordance with national laws.	US Census API - ACS 2020
Goal 5: Gender Equality	Culture	5.2.1	Adolescent birth rate (births per 1,000 women aged 15-19 years)			US Census API - ACS 2020
Goal 5: Gender Equality	Culture	5.3.1	Proportion of women living below the poverty line		5.A Undertake reforms to give women equal rights to economic resources, as well as access to ownership and control over land and other forms of property, financial services, inheritance and natural resources, in accordance with national laws.	
Goal 5: Gender Equality	Culture		Women victims of violence (per 100,000 population)		5.2 Eliminate all forms of violence against all women and girls in the public and private spheres, including trafficking and sexual and other types of exploitation.	
Goal 5: Gender Equality	Culture		LGBTQ+ victims of violence (per 100,000 population)			
Goal 5: Gender Equality	Culture		Maternal mortality ratio (per 100,000 live births)			
Goal 5: Gender Equality	Culture		Percentage of young women (aged 15-24 years) not in		5.A Undertake reforms to give women equal rights to economic resources, as well as access to	



			education, employment or training (NEET)		ownership and control over land and other forms of property, financial services, inheritance and natural resources, in accordance with national laws.	
Goal 5: Gender Equality	Culture		Percentage of women represented in local government, by SOGIE		5.5 Ensure women's full and effective participation and equal opportunities for leadership at all levels of decision-making in political, economic and public life.	

Goal 6: Clean Water	Sustainability		Water Toxicity from EPA-Monitored Wastewater Discharge Sources	RSEI modeled toxic concentrations at stream segments within 500 meters, divided by distance in kilometers (km) (Toxicity-weighted concentration/ meters)	6.3 By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally	EPA EJ Screen
Goal 6: Clean Water	Sustainability	6.4.1				
Goal 6: Clean Water	Sustainability		Density of Underground storage tanks (UST) and leaking UST (LUST)	Count of LUSTs (multiplied by a factor of 7.7) and the number of USTs within a 1,500-foot buffered block group. Potentially indicative of groundwater contamination risks. (facilities/sq. km.)	6.3 By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally	EPA EJ Screen
		6.5.1				

Goal 7: Clean & Affordable Energy	Sustainability		Percent of population with primary reliance on clean fuels and technology	% of clean fuel, total	7.2 By 2030, increase substantially the share of renewable energy in the global energy mix.	US Census API - ACS 2020
		7.1.2n1				



Goal 7: Clean & Affordable Energy	Sustainability	7.1.1	Household utility costs	dollar amount average utility costs	7.1 By 2030, ensure universal access to affordable, reliable and modern energy services	US Census API - ACS 2020
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Goal 8: Workforce & Economy	Opportunity	8.5.2n1	Unemployment rate, by section of population.	Unemployment rate	8.5 By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities and equal pay for work of equal value	US Census API - ACS 2020
Goal 8: Workforce & Economy	Opportunity	8.6.1n2	Disconnected Youth (age 16-24 who are out of work and not in school)	% of 15 to 24 years old that are not enrolled in the school and/or in the labor force	8.6 By 2020, Substantially reduce the proportion of youth not in employment, education, or training	US Census API - ACS 2020
Goal 8: Workforce & Economy	Opportunity		Percentage of adults with a bank account		8.10 Strengthen the capacity of domestic financial institutions to encourage and expand access to banking, insurance and financial services for all	

Goal 9: Industry, Innovation, & Infrastructure	Opportunity	9.2.2n1	Ratio of manufacturing jobs to all jobs	% of people employed in the manufacturing sector	9.2 Promote inclusive and sustainable industrialization and, by 2030, significantly raise industry's share of employment and gross domestic product, in line with national circumstances, and double its share in least developed countries	US Census API - ACS 2020
Goal 9: Industry, Innovation, & Infrastructure	Opportunity	9.b.1n1	Percentage of degrees in STEM fields	% of Adults (>=25) that get a Bachelor degree from a STEM field, as % of total bachelors	9.5 Enhance scientific research, upgrade the technological capabilities of industrial sectors in all countries, particular developing countries, including by	US Census API - ACS 2020



					2030 encouraging innovation and substantially increasing the number of research and development workers per 1 million people and public and private research and development spending	
Goal 9: Industry, Innovation, & Infrastructure	Opportunity	9.c.1n1	Percentage of Homes with High-speed Data Services	% of houses with high-speed data services	9.C Significantly increase access to information and communications technology and strive to provide universal and affordable access to the internet in least developed countries by 2020	US Census API - ACS 2020

Goal 10: Reduced Racial & Ethnic Inequalities	Culture	10.2	Income distribution between highest and lowest earners, GINI coefficient (higher score = greater inequality)	% GINI coefficient within each tract	10.1 By 2030, progressively achieve and sustain income growth of the bottom 40% of the population at a rate higher than the national average	US Census API - ACS 2020
Goal 10: Reduced Racial & Ethnic Inequalities	Culture	10.3	Racial segregation, % difference between white population in tract and county	Percentage points difference between each tract and the total % of white population living in the county	10.2 By 2030, empower and promote the social, economic and political inclusion of all, irrespective of age, sex, disability, race, ethnicity, origin, religion or economic or other status	US Census API - ACS 2020
Goal 10: Reduced Racial & Ethnic Inequalities	Culture	10.4.1	Median Household income (black, latin, asian)		10.2 By 2030, empower and promote the social, economic and political inclusion of all, irrespective of age, sex, disability, race, ethnicity, origin, religion or economic or other status	US Census API - ACS 2020
Goal 10: Reduced Racial & Ethnic Inequalities	Culture	10.5.1	Homeownership rates (black, latin, asian)			US Census API - ACS 2020



Goal 10: Reduced Racial & Ethnic Inequalities	Culture	10.6.1	Commute time (black, latin, asian)			
Goal 10: Reduced Racial & Ethnic Inequalities	Culture	10.7.1	Percentage high school attainment highest level (black, latin, asian)			US Census API - ACS 2020
Goal 10: Reduced Racial & Ethnic Inequalities	Culture	10.7.2	Percentage college attainment (black, latin, asian)			US Census API - ACS 2020
Goal 10: Reduced Racial & Ethnic Inequalities	Culture	10.4.2	Percentage poverty (black, latin, asian)		10.2 By 2030, empower and promote the social, economic and political inclusion of all, irrespective of age, sex, disability, race, ethnicity, origin, religion or economic or other status	US Census API - ACS 2020
Goal 10: Reduced Racial & Ethnic Inequalities	Culture	10.5.2	Cost of housing, utilities as a percentage of income (black, latin, asian)			
Goal 10: Reduced Racial & Ethnic Inequalities	Culture	10.8.1	Percentage of youth (aged 15-24) not in education, employment or training (NEET) (black, latin, asian)		10.2 By 2030, empower and promote the social, economic and political inclusion of all, irrespective of age, sex, disability, race, ethnicity, origin, religion or economic or other status	US Census API - ACS 2020
Goal 10: Reduced Racial & Ethnic Inequalities	Culture	10.8.2	Percentage unemployed (black, latin, asian)		10.2 By 2030, empower and promote the social, economic and political inclusion of all, irrespective of age, sex, disability, race, ethnicity, origin, religion or economic or other status	US Census API - ACS 2020
Goal 10: Reduced Racial & Ethnic Inequalities	Culture		Dollars spent per student			



Goal 10: Reduced Racial & Ethnic Inequalities	Culture		Life expectancy (black, latin, asian)			
Goal 10: Reduced Racial & Ethnic Inequalities	Culture		% business ownership (black, latin, asian)			

Goal 11: Sustainable Cities & Communities	Opportunity	11.1.1n1	Percent of people living in inadequate housing, by sections of the population.	% of house with no plumbing system, % of house with more than one people living in each room	11.1 By 2030, ensure access for all to adequate, safe and affordable housing and basic services and upgrade slums	US Census API - ACS 2020
Goal 11: Sustainable Cities & Communities	Opportunity	11.1.2	Housing affordability (cost is >35% of total income)	% of the household where the rent is more than 35% of total income	11.1 By 2030, ensure access for all to adequate, safe and affordable housing and basic services and upgrade slums	US Census API - ACS 2020
Goal 11: Sustainable Cities & Communities	Opportunity		Homeownership rates			US Census API - ACS 2020
Goal 11: Sustainable Cities & Communities	Opportunity		Cost of housing, utilities as a percentage of income			US Census API - ACS 2020
Goal 11: Sustainable Cities & Communities	Opportunity		Commute time		11.2 By 2030, provide access to safe, affordable, accessible and sustainable transport systems for all, improving road safety, notably by expanding public transport with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons	US Census API - ACS 2020
Goal 11: Sustainable Cities &	Opportunity	11.2n1n1	Percent of people using public transportation	% of workers that use public transportation when	11.2 By 2030, provide access to safe, affordable, accessible and	US Census API - ACS 2020



Communities				they don't work at home, and they have vehicles available	sustainable transport systems for all, improving road safety, notably by expanding public transport with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons	
Goal 11: Sustainable Cities & Communities	Sustainability	11.6.1	Air Quality, level of Particulate Matter (PM2.5), annually	PM2.5 levels in air, µg/m3 annual avg. summarized by tract; EPA, Office of Air and Radiation (OAR) fusion of model and monitor data	11.6 By 2030, reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and other waste management	EPA EJ Screen
Goal 11: Sustainable Cities & Communities	Sustainability	11.7.1n1	Number of parks and green spaces	% of Tract Area in a Local or State Park	11.7 By 2030, provide universal access to safe, inclusive and accessible, green and public spaces, in particular for women and children, older persons and persons with disabilities	PASDA: PA DCNR Parks Layers

Goal 12: Responsible Consumption & Production	Sustainability	12.1.1	Toxic chemicals released (facility reported)	On-site total toxic release (lbs/yr)	12.4 By 2020, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle in accordance with agreed international frameworks, and significantly reduce their release to air, water, and soil in order to minimize their adverse impacts on health and the environment	EPA TRI GIS Web Service
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Goal 15: Life on Land	Sustainability	15.1.1n1	Forest area in square miles	% Tree Canopy	15.2 By 2020, promote the implementation of sustainable management of all types of forests halt deforestation restore degraded forests and substantially increase afforestation and reforestation globally	PASDA: PA Tree Canopy GIS Web Service
Goal 15: Life on Land	Sustainability	15.2.1n1	Green open space meters per capita	% of Tract Area that is in a vegetated class		PASDA: PA High Resolution Land Cover GIS Web Service

