

Cooperative Extension Health Metrics Landscape Analysis: Annotated Bibliography

Introduction

Findings from the NIFA funded Cooperative Extension Systemwide Assessment of Readiness to implement the *National Framework for Health Equity and Well-Being* (Framework) were shared with the Extension Health Leadership Committee, which serves as ECOP’s health program action team, in September 2022. In response, the committee developed a Framework Implementation plan, with a focus on what can be catalyzed at the national level. One strategy in the plan is to gather information and develop metrics at the individual, program, system, and community level by which Extension can assess and communicate the results of its health-related work. To help address this Extension leaders and stakeholders were invited to participate in an Extension Health Metrics Workgroup. To inform workgroup efforts the project team conducted a landscape analysis to gather existing examples of metrics across Extension.

Landscape Analysis: Annotated Bibliography

The landscape analysis was generated by an open call for resources from workgroup members, Leadership Committee members, and other stakeholders. The resulting annotated bibliography, or list of resources, is by no means a full picture of all the metrics collected across the vast and varied Cooperative Extension system, however it does provide a starting point from which to build from. It documents the resources that were gathered and organizes them by metric area (see table below) and provides a brief summary with content relevant to the workgroup. Notably, the majority of resources fell into more than one metric area. Italicized words or resource IDs link to the relevant page in the document. The annotated bibliography has four sections:

- **List of resources** - 20 examples of how Extension uses metrics to assess and communicate their work
- **Appendix A** - table cross-referencing the resources by health topic
- **Appendix B** - high-level descriptive table of the program, community, and equity resources by metric types
- **Appendix C** - key methods for understanding community impact: examples from two Extension institutions

Metric areas	Description	Number of Resources (Resource IDs)
Individual Performance	Measures to understand how health and well-being work, in particular health equity work, is “counted” towards individual Extension staff job performance.	2 (006, 007)
Program	Measures to understand the reach and impact of particular Extension health-related programs or across programs. Most measures are based on particular health topic areas.	14 (001, 002, 003, 004, 005, 008, 011, 013, 014, 016, 017, 018, 019, 020)
Community	Measures to understand how community health and well-being benefits, especially in the ways they partner, use local data, and work with coalitions.	11 (001, 002, 003, 004, 005, 007, 011, 012, 013, 014, 015)
System	Measures to understand supportive organizational structures and systems, including incentives, recognition, leadership support, strategic vision/prioritization, funding, and adequate/diverse staffing	6 (006, 009, 010, 018, 019, 020)
Equity	Measures to understand how well initiatives are reaching the populations they serve and addressing health disparities. This includes diversity, equity and inclusion (DEI) efforts.	12 (001, 003, 004, 006, 009, 010, 011, 013, 014, 015, 017, 018)

List of Resources

Resource ID: 001	Title: SNAP-Ed Toolkit Evaluation Framework	Year Published: 2016
Metric area(s) <input type="checkbox"/> Individual <input checked="" type="checkbox"/> Program <input checked="" type="checkbox"/> Community <input type="checkbox"/> System <input checked="" type="checkbox"/> Equity	Author(s): University of North Carolina Center for Health Promotion and Disease Prevention	
	Link or way to access: https://snapedtoolkit.org/framework/index/	
	Health topics addressed: nutrition, food availability, food safety, physical activity, diabetes prevention, community assessment, obesity prevention, Policy Systems & Environment (PSE), health-related coalitions, community partnerships, well-being, education, agriculture, food systems, and healthcare	
Metric Type: <input type="checkbox"/> Quantitative <input type="checkbox"/> Qualitative <input checked="" type="checkbox"/> Both	Data collection instruments/tools available: websites for each framework component contain indicator descriptions, a list of specific outcome measures, suggestions of what to measure, links to relevant surveys and data collection tools and related publication citations.	
	Brief description: Comprehensive online platform based on the SNAP-Ed Evaluation Framework developed by USDA. Users can select a framework component (individual, environmental settings, or sectors of influence) and a level (Short-term, medium-term, long-term or population results to look at specific measures. Includes an Interpretive Guide that describes step-by-step how states can use the framework.	
Related to Framework Rec: <input checked="" type="checkbox"/> 1- Health equity <input checked="" type="checkbox"/> 2- Community Assessment <input type="checkbox"/> 3- System Support <input checked="" type="checkbox"/> 4- Grow Partnerships <input checked="" type="checkbox"/> 5- Coalition work		

Resource ID: 002	Title: National Community Resource and Economic Development (NCRED) Indicators Team Webinars	Year Published: N/A
Metric area(s) <input type="checkbox"/> Individual <input checked="" type="checkbox"/> Program <input checked="" type="checkbox"/> Community <input type="checkbox"/> System <input type="checkbox"/> Equity	Author(s): NCRED Indicators team (“a self-directed group of Extension professionals who strive to tell compelling stories at state, local, and national levels about the collective impact of their community and economic development work”)	
	Link or way to access: https://www.usu.edu/rrdc/national-cred-team	
	Health topics addressed: community development, community assessment, economic development	
Metric Type: <input type="checkbox"/> Quantitative <input type="checkbox"/> Qualitative <input checked="" type="checkbox"/> Both	Data collection instruments/tools available: individual webinars contain information and availability of relevant data collection instruments and tools.	
	Brief description: Website hosted by Utah State University and the Regional Rural Development Centers, housing a collection of 16 recorded webinars to date focused on sharing relevant evaluation frameworks, strategies, and methods for evaluating community and economic development work and their practical application. Webinar topics include (bold emphasis added): <ul style="list-style-type: none"> • Strategies for understanding impact: evaluating public value through impact stories, using the ‘but for’ principle, using the community capitals framework, documenting the return on investment (dollar value) of Extension programming, evaluating collective impact initiatives, estimating economic impact, and qualitative indicators for evaluating community development impacts • Methods: ripple effects mapping online, survey question design and best practices, and social network analysis • Ways of reporting impact: communicating impacts in the NIFA Reporting System, impact statement writing, and data visualization for a community audience, • Evaluation when you have limited capacity and expertise • Importance of common indicators to promote community development work 	
Related to Framework Rec: <input type="checkbox"/> 1- Health equity <input checked="" type="checkbox"/> 2- Community Assessment <input type="checkbox"/> 3- System Support <input type="checkbox"/> 4- Grow Partnerships <input type="checkbox"/> 5- Coalition work		

Resource ID: 003	Title: Food Sovereignty Assessment Tool (2 nd edition)	Year Published: 2015
Metric area(s) <input type="checkbox"/> Individual <input checked="" type="checkbox"/> Program <input checked="" type="checkbox"/> Community <input type="checkbox"/> System <input checked="" type="checkbox"/> Equity	Author(s): First Nations Development Institute	
	Link or way to access: https://www.firstnations.org/publications/food-sovereignty-assessment-tool-2nd-edition/ (you will need to enter your email and organization name to download a copy)	
	Health topics addressed: nutrition, food availability, diabetes prevention, obesity prevention, community assessment	
Metric Type: <input type="checkbox"/> Quantitative <input type="checkbox"/> Qualitative <input checked="" type="checkbox"/> Both	Data collection instruments/tools available: see appendices for examples of exercises to use with communities, a sample survey, an asset mapping exercise, and worksheets that can be used in the planning and assessment of a food sovereignty assessment.	
	Brief description: An updated version of the initial tool shared in 2004, this resource was developed to provide a framework for Native communities to measure and assess food access, land use, and food policy in their communities to increase local food system control. The appendices include examples of exercises to use with communities, a sample survey, an asset mapping exercise, and worksheets that could be used in the planning and assessment of a food sovereignty assessment. More recently in 2018 the authors published a report with vignettes on how communities use this data, including community partner advice to other communities conducting a food sovereignty assessment which can be accessed here: https://www.firstnations.org/publications/food-sovereignty-assessments-a-tool-to-grow-healthy-native-communities/	
Related to Framework Rec: <input checked="" type="checkbox"/> 1- Health equity <input checked="" type="checkbox"/> 2- Community Assessment <input type="checkbox"/> 3- System Support <input type="checkbox"/> 4- Grow Partnerships <input type="checkbox"/> 5- Coalition work		

Resource ID: 004	Title: Cornell University Cooperative Extension Health and Wellbeing/ Social Determinants of Health (SDOH) indicators	Year Published: N/A
Metric area(s) <input type="checkbox"/> Individual <input checked="" type="checkbox"/> Program <input checked="" type="checkbox"/> Community <input type="checkbox"/> System <input checked="" type="checkbox"/> Equity	Author(s): Cornell University Cooperative Extension	
	Link or way to access: For more information, please contact Adam Hughes (ath66@cornell.edu) or Celeste Carmichael (cjc17@cornell.edu)	
	Health topics addressed: health disparities, well-being, health-related coalitions, community health assessments (CHA), community health improvement planning (CHIP), PSE, SDOH	
Metric Type: <input checked="" type="checkbox"/> Quantitative <input type="checkbox"/> Qualitative <input type="checkbox"/> Both	Data collection instruments/tools available: None currently available.	
	Brief description: Initiated in 2022, collection and reporting of statewide health and well-being/SDOH indicators within Cornell University Cooperative Extension is promising. County-based Extension educators report on the following indicators as part of annual program reporting: <ul style="list-style-type: none"> • # of participants in direct educational activities designed to address health disparities who indicate improved knowledge or skills • # of participants in direct educational activities designed to address health disparities documented to have applied their improved knowledge or skills • # of health-related coalition, working group, and partnership members who demonstrate knowledge and skill gains related to conducting community health assessments • # of health-related coalition, working group, and partnership members who demonstrate knowledge and skill gains related to adapting evidence-based programs and policies to address community health needs/disparities • # of coalition, working group, and partnership members who articulate an intent to contribute to county or regional community health assessments or community health improvement plans (CHIPS) • # of health-related coalition, working group, and partnership members who contribute to county or regional community health assessments and improvement planning process • # of health-related coalition, working group, and partnership members who contribute to county or regional community health initiatives (that are not yet part of the CHIP) 	
Related to Framework Rec: <input checked="" type="checkbox"/> 1- Health equity <input checked="" type="checkbox"/> 2- Community Assessment <input type="checkbox"/> 3- System Support <input type="checkbox"/> 4- Grow Partnerships <input checked="" type="checkbox"/> 5- Coalition work		

Resource ID: 005	Title: National 4-H Common Measures	Year Published: N/A
Metric area(s) <input type="checkbox"/> Individual <input checked="" type="checkbox"/> Program <input checked="" type="checkbox"/> Community <input type="checkbox"/> System <input type="checkbox"/> Equity	Author(s): National 4-H Council led, measures developed in partnership with the Land Grant University (LGU) system. National 4-H Collaborative: Cooperative Extension System, National 4-H Council, 4-H National Headquarters NIFA USDA.(2016). <i>National 4-H Common Measures 2.0</i> . [Measurement library]. Retrieved from https://4-h.org/professionals/common-measures/#!common-measures-2-0	
	Link or way to access: https://4-h.org/resources/professionals/common-measures/ (for registered 4-H professionals) Registration is free and can be done online via this address: https://4-h.org/4-h/signup/ . Complete a brief contact form and request access to “Common Measures”. Approval for access may take up to 3 business days. Contact Jill Lingard (jlingard@unl.edu) or Jessie Mullendore (jmullendore@unl.edu) if you need assistance.	
	Health topics addressed: youth development, education, nutrition, physical activity, risk prevention, civic engagement	
Metric Type: <input checked="" type="checkbox"/> Quantitative <input type="checkbox"/> Qualitative <input type="checkbox"/> Both	Data collection instruments/tools available: CM survey library includes 7 survey instruments (topics listed below) and demographics measures designed for youth self-report in grades 4-12.	
	Brief description: Launched in 2012, the National 4-H Common Measures (CM) was developed through a joint partnership between the LGU System, 4-H National Headquarters (NIFA) and the National 4-H Council. Data is submitted via the online data collection platform Qualtrics or through compatible systems used by LGUs. The goals of the CM are to 1) identify common core youth outcomes and indicators used to improve programs and report impact; 2) provide a process for assessment and report from a national database; 3) provide state 4-H programs with resources to assist in the planning of local/state/regional evaluations. National calls for data are collected every 2 years and an annual index study (started in 2022 and integrated with the 4-H Thriving Model) are offered and all LGUs are invited to participate. Data is not collected on aggregate except from LGUs receiving grants from National 4-H Council or participation in the previously mentioned national studies. The CM library consists of seven instruments and demographics measures designed for youth self-report in grades 4-12 in the areas of Animal Science, Civic Engagement, Healthy Living (healthy eating habits, being active, healthy decision making, and food preparation), College-Career Readiness (8-12 th grades only), Science, Universal Positive Youth Development (aspects of character considered to be influenced by the 4-H experience) and overall 4-H experience.	
Related to Framework Rec: <input type="checkbox"/> 1- Health equity <input checked="" type="checkbox"/> 2- Community Assessment <input checked="" type="checkbox"/> 3- System Support <input type="checkbox"/> 4- Grow Partnerships <input type="checkbox"/> 5- Coalition work		

Resource ID: 006	Title: Colorado State University Extension Faculty Code	Year Published: 2022
Metric area(s) <input checked="" type="checkbox"/> Individual <input type="checkbox"/> Program <input type="checkbox"/> Community <input checked="" type="checkbox"/> Equity <input checked="" type="checkbox"/> System	Author(s): Office of Engagement and Extension at Colorado State University (CSU) Extension	
	Link or way to access: https://extension.colostate.edu/docs/jobs/CSU-Extension-Faculty-Code-202212.pdf	
	Health topics addressed: staff performance guidelines, community partnerships, Diversity Equity and Inclusion (DEI)	
Metric Type: <input type="checkbox"/> Quantitative <input type="checkbox"/> Qualitative <input checked="" type="checkbox"/> Both	Data collection instruments/tools available: Appendices have guidelines for annual evaluation of faculty including performance expectations, ratings and a rubric for weighting DEI activities (pg. 31)	
	Brief description: Robust set of CSU Extension faculty performance expectations that includes rating guidelines as well as guidance tables with examples. Content based on the mission of CSU Extension, which includes a focus on collaborative engaged scholarship as well as Diversity Equity and Inclusion. This resource contains narrative annual rating guidelines and guidance on faculty appointment, governance, performance activities, administration, committee work, rank and promotion information, evaluation process, as well as three appendices with guidelines for rating and guidance across three focus areas (educate, create, and connect), DEI, and leadership in administrative operations.	
Related to Framework Rec: <input checked="" type="checkbox"/> 1- Health equity <input checked="" type="checkbox"/> 2- Community Assessment <input checked="" type="checkbox"/> 3- System Support <input checked="" type="checkbox"/> 4- Grow Partnerships <input type="checkbox"/> 5- Coalition work		

Resource ID: 007	Title: Purdue “Monthly Educator to Supervisor Communiqué”	Year Published: 2022
Metric area(s) <input checked="" type="checkbox"/> Individual <input type="checkbox"/> Program <input checked="" type="checkbox"/> Community <input type="checkbox"/> System <input type="checkbox"/> Equity	Author(s): Purdue University Extension	
	Link or way to access: For more information please contact: Donna Vandergraff (dvanderg@purdue.edu) To learn more about how this fits into coalition reporting more broadly, see the April 2022 “Purdue Extension Coalition Reporting Webinar” https://iu.mediaspace.kaltura.com/media/t/1_5olfzekt	
	Health topics addressed: staff performance guidelines, health-related coalitions, PSE, community partnerships	
Metric Type: <input type="checkbox"/> Quantitative <input type="checkbox"/> Qualitative <input checked="" type="checkbox"/> Both	Data collection instruments/tools available: email template of monthly communicate available in the webinar, or by request	
	Brief description: Monthly email template from educator/agent to supervisor to provide ongoing information on community engaged work (coalition related, in this case) that is explicitly connected to an employee’s performance goals and objectives. Predominantly narrative description of activity, role, and data on new connections, opportunities, needs, and engagement in coalition activities with both numeric and narrative information. Includes positions reporting such as: HHS Educator, CWC, Agriculture and Natural Resources Educator, 4-H Youth Development Educator, Community Development Educator, Program Assistant.	
Related to Framework Rec: <input type="checkbox"/> 1- Health equity <input checked="" type="checkbox"/> 2- Community Assessment <input type="checkbox"/> 3- System Support <input checked="" type="checkbox"/> 4- Grow Partnerships <input checked="" type="checkbox"/> 5- Coalition work		

Resource ID: 008	Title: Purdue Local Health Coalition Reporting	Year Published: 2022
Metric area(s) <input type="checkbox"/> Individual <input checked="" type="checkbox"/> Program <input checked="" type="checkbox"/> Community <input type="checkbox"/> System <input type="checkbox"/> Equity	Author(s): Purdue Extension Coalition Engagement Team	
	Link or way to access: https://www.purdue.edu/hhs/extension/program8/?_ga=2.215943059.542256215.1690210437-1379370651.1690210422 (coalition map) https://iu.mediaspace.kaltura.com/media/t/1_5olfzekt (webinar on coalition reporting) https://coalitiontrip.indianactsi.org/resources/ (assessing community readiness resources)	
	Health topics addressed: health-related coalitions, community partnerships, community assessment, community development	
Metric Type: <input type="checkbox"/> Quantitative <input type="checkbox"/> Qualitative <input checked="" type="checkbox"/> Both	Data collection instruments/tools available: Webinar (linked above) includes examples of metrics reported on and a template from their Digital Measures reporting system.	
	Brief description: Since 2012 Connections IN Health (Indiana Clinical Translational Sciences Institute and Purdue Extension (Community Development (CD), Health and Human Sciences and the Nutrition Education Program) have partnered to strengthen Purdue Extension’s role in health coalitions. They developed several resources on assessing community readiness and manage two data collection systems that quantify and describe the work Extension is doing with communities: <ul style="list-style-type: none"> • An annual Qualtrics survey captures all health-related Purdue Extension activity with coalitions as reported by each county team. Data feeds into an annually updated dynamic coalition map by county reflecting the level of activity, coalition status and focus, and description of Purdue’s involvement. This data is also used to collect CD regional and North Central region indicators. • Digital Measures (DM) is a monthly reporting (started in 2020) tool that captures information on all coalition meetings + events among Extension staff with active roles in coalitions (as opposed to passive roles, like attending meetings. Data rolls up to Purdue Extension, CD region, North Central region, and NIFA/Purdue College of Ag measures. Data collected includes detailed information about the demographics of participants at the meeting/event, topics covered, # of volunteers, # of volunteer hours, # of grants and resources leveraged. 	
Related to Framework Rec: <input type="checkbox"/> 1- Health equity <input checked="" type="checkbox"/> 2- Community Assessment <input type="checkbox"/> 3- System Support <input checked="" type="checkbox"/> 4- Grow Partnerships <input checked="" type="checkbox"/> 5- Coalition work		

Resource ID: 009	Title: Urban Universities for HEALTH Metrics Generator	Year Published: N/A
Metric area(s) <input type="checkbox"/> Individual <input type="checkbox"/> Program <input type="checkbox"/> Community <input checked="" type="checkbox"/> System <input checked="" type="checkbox"/> Equity	Author(s): Urban Universities for HEALTH (Health Equity through Alignment, Leadership, and Transformation of the Health Workforce)	
	Link or way to access: https://www.aamc.org/about-us/equity-diversity-inclusion/urban-universities-health/metrics-generator	
	Health topics addressed: Diversity Equity and Inclusion (DEI), staff hiring practices, cultural competency	
Metric Type: <input checked="" type="checkbox"/> Quantitative <input type="checkbox"/> Qualitative <input type="checkbox"/> Both	Data collection instruments/tools available: No data collection instruments. The web-based generator allows you to build a customized plan and creates a pdf of the results.	
	Brief description: Online platform hosted by the Association of American Medical Colleges designed for university leaders to measure efforts to build a diverse and culturally competent health and scientific workforce. This tool allows the user to create a customized list of measures by selecting between 1 to 4 goals to receive relevant strategies and metrics via the generator. Metrics under Goal 2 (Increase the diversity of the leadership, faculty, and student body) apply to university staff and are most relevant to the Framework. Different indicator levels (basic, intermediate, and complex) are offered. Examples of metrics under Goal 2: Percent of department chairs who are under-represented racial and ethnic minority, Faculty gender gap/ratio, Faculty under-represented racial and ethnic minority faculty ratio.	
Related to Framework Rec: <input type="checkbox"/> 1- Health equity <input type="checkbox"/> 2- Community Assessment <input checked="" type="checkbox"/> 3- System Support <input type="checkbox"/> 4- Grow Partnerships <input type="checkbox"/> 5- Coalition work		

Resource ID: 010	Title: Faculty Cluster Hiring for Diversity and Institutional Climate	Year Published: 2015
Metric area(s) <input type="checkbox"/> Individual <input type="checkbox"/> Program <input type="checkbox"/> Community <input checked="" type="checkbox"/> System <input checked="" type="checkbox"/> Equity	Author(s): Urban Universities for HEALTH (Health Equity through Alignment, Leadership, and Transformation of the Health Workforce)	
	Link or way to access: https://www.aplu.org/wp-content/uploads/faculty-cluster-hiring-for-diversity-and-institutional-climate.pdf	
	Health topics addressed: Diversity Equity and Inclusion (DEI), staff hiring practices	
Metric Type: <input type="checkbox"/> Quantitative <input type="checkbox"/> Qualitative <input checked="" type="checkbox"/> Both	Data collection instruments/tools available: No instruments included. Resource describes promising practices and examples.	
	Brief description: Final report of a qualitative research study conducted by the Coalition of Urban Serving Universities, Association of Public and Land-Grant Universities, and the Association of American Medical Colleges that aimed to assess the impact of faculty cluster hiring programs on diversity and institutional climate and identify success factors and problems associated with the practice. Faculty cluster hiring is when faculty in multiple departments or colleges are hired at the same time around interdisciplinary research topics or “clusters.” Some cluster hiring programs aim to increase faculty diversity or other areas of expertise the institution wants to grow in (e.g., health equity). The report details eight promising practices that institutions should consider as they develop their own faculty cluster hiring programs. To measure impact quantitatively of a faculty cluster hiring program the report suggests measuring the average faculty dollar for awarded research for cluster faculty compared to faculty overall. Qualitatively collecting perspectives from cluster participants on their accomplishments (via interviews or surveys) is also recommended.	
Related to Framework Rec: <input type="checkbox"/> 1- Health equity <input type="checkbox"/> 2- Community Assessment <input checked="" type="checkbox"/> 3- System Support <input type="checkbox"/> 4- Grow Partnerships <input type="checkbox"/> 5- Coalition work		

Resource ID: 011	Title: Extension Collaboration on Immunization Teaching and Engagement (EXCITE) dashboard	Year Published: N/A
Metric area(s) <input type="checkbox"/> Individual <input checked="" type="checkbox"/> Program <input checked="" type="checkbox"/> Community <input type="checkbox"/> System <input checked="" type="checkbox"/> Equity	Author(s): Extension Foundation	
	Link or way to access: https://excite.extension.org/ (dashboard site) https://experience.arcgis.com/experience/f611a239d636482e9beb81faff08c0db (programs map) https://connect.extension.org/db/excite-assets/record/excite-activity-2-evaluation-tools (asset library of evaluation tools)	
	Health topics addressed: COVID-19 response, COVID-19 vaccination, immunization, community assessment	
Metric Type: <input type="checkbox"/> Quantitative <input type="checkbox"/> Qualitative <input checked="" type="checkbox"/> Both	Data collection instruments/tools available: Numerous evaluation tools including sample IRB documentation, survey questionnaires, and needs assessments are available in the asset library.	
	Brief description: Extension Collaboration on Immunization Teaching and Engagement (EXCITE) is a nationwide local response by Cooperative Extension made possible through an interagency agreement between USDA-NIFA and the Centers for Disease Control and Prevention and a cooperative agreement with the Extension Foundation in partnership with the ECOP Health Program Action Team. Includes 96 Projects representing 73 Land-grant Universities with the aim of decreasing COVID-19 vaccine hesitancy, increasing accessibility to adult vaccines, and reducing health disparities. The dynamic programs map reports total # of individuals reached by its two main activities (COVID Immunization Education Programs and Adult Immunization Education Pilot Projects) and details by project the number of individuals reached, a description of their activities, partners involved, and the priority population. The dashboard site includes links to relevant contacts, implementation resources, and an asset library for the initiative. COVID Immunization Education Programs report monthly via a programmatic reporting system on their target population, demographic information, partnership elements, engagement activities and individuals reached, as well as any assets (communication/education materials) developed and/or adopted. Appendix 1 of the annual report available on the EXCITE website includes a full list of key indicators for these projects. Adult Immunization Education Pilot Projects report quarterly via the programmatic reporting system on their target population demographic information, community assessment activities, and implementation of educational campaigns.	
Related to Framework Rec: <input checked="" type="checkbox"/> 1- Health equity <input checked="" type="checkbox"/> 2- Community Assessment <input type="checkbox"/> 3- System Support <input checked="" type="checkbox"/> 4- Grow Partnerships <input type="checkbox"/> 5- Coalition work		

Resource ID: 012	Title: Community Assets and Attributes Model (CAAM)	Year Published: 2020
Metric area(s) <input type="checkbox"/> Individual <input type="checkbox"/> Program <input checked="" type="checkbox"/> Community <input type="checkbox"/> System <input type="checkbox"/> Equity	Author(s): Daniel Mueller, Season Hoard, Kelli Roemer, Christina Sanders, & Sanne A.M. Rijkhoff,	
	Link or way to access: https://dgss.wsu.edu/services/caam/	
	Health topics addressed: community development, community assessment, COVID-19 vaccination, agriculture	
Metric Type: <input checked="" type="checkbox"/> Quantitative <input type="checkbox"/> Qualitative <input type="checkbox"/> Both	Data collection instruments/tools available: website includes links to CAAM scores, indicators, and codebooks.	
	Brief description: The Community Assets and Attributes Model (CAAM) is a method for measuring human, cultural, social, and political capital in U.S. counties. The CAAM uses various national datasets to create comparative, county-level scores of each capital. The capital scores are benchmarked to their Census Region to determine if a county performs or underperforms in comparison to the regional average. These scores can be adapted to your region or area of interest. CAAM is used to assess the impact of social capital on uptake of agricultural innovations, COVID-19 vaccinations, and more.	
Related to Framework Rec: <input type="checkbox"/> 1- Health equity <input checked="" type="checkbox"/> 2- Community Assessment <input type="checkbox"/> 3- System Support <input checked="" type="checkbox"/> 4- Grow Partnerships <input type="checkbox"/> 5- Coalition work		

Resource ID: 013	Title: Well-being in the Nation (WIN) Measures	Year Published: 2020
Metric area(s) <input type="checkbox"/> Individual <input checked="" type="checkbox"/> Program <input checked="" type="checkbox"/> Community <input type="checkbox"/> System <input checked="" type="checkbox"/> Equity	Author(s): Well-being and Equity (WE) in the World, Healthy People 2030, and the National Committee on Vital and Health Statistics (NCVHS)	
	Link or way to access: https://www.winmeasures.org/ (main page) https://www.dropbox.com/s/ezue2h2mr9int4g/WIN%20Measures%20AJPH-%20All.pdf (table of WIN measures)	
	Health topics addressed: agriculture, health disparities, well-being, mental health, SDOH, community assessment, community development, economic development, education, risk prevention, environmental health, nutrition, food availability, food systems, housing, public safety, healthcare	
Metric Type: <input checked="" type="checkbox"/> Quantitative <input type="checkbox"/> Qualitative <input type="checkbox"/> Both	Data collection instruments/tools available: No instruments available. The table of WIN measures details specific measures and sources by theme and domain. Each domain has a webpage with measures, links to data sources, and examples.	
	Brief description: Publicly available cross-sector measures aligned with Thriving Together and the Vital Conditions that drive improvement in population health, social determinants of health and equity to improve the health and well-being of people and communities. More than 100 groups and local communities contributed to the “living library of measures.” WIN measures are organized into core measures, leading indicators, and a flexible expanded set of measures. The nine core measures fall under 3 themes: well-being of people, well-being of places, and equity and are meant to be used across initiatives. The leading indicators are highly recommended measures that have readily available data and cover the 12 NCVHS domains of community vitality, economy, education, environment and infrastructure, equity, food and agriculture, health, housing, public safety, transportation, well-being, and demographics. The flexible expanded set of measures are highly promising, valid measures that lack research or data availability and fall into the same categories as the leading indicators.	
Related to Framework Rec: <input checked="" type="checkbox"/> 1- Health equity <input checked="" type="checkbox"/> 2- Community Assessment <input type="checkbox"/> 3- System Support <input type="checkbox"/> 4- Grow Partnerships <input type="checkbox"/> 5- Coalition work		

Resource ID: 014	Title: National Extension Association of Family & Consumer Sciences (NEAFCS) Impact Statements	Year Published: N/A
Metric area(s) <input type="checkbox"/> Individual <input checked="" type="checkbox"/> Program <input checked="" type="checkbox"/> Community <input type="checkbox"/> System <input checked="" type="checkbox"/> Equity	Author(s): NEAFCS Extension professionals	
	Link or way to access: https://www.neafcs.org/impact-statements	
	Health topics addressed: obesity prevention, health disparities, well-being, mental health, physical activity, diabetes prevention, food safety, agriculture, nutrition, food availability, financial wellness, housing, environmental health, youth development, education, SDOH	
Metric Type: <input type="checkbox"/> Quantitative <input type="checkbox"/> Qualitative <input checked="" type="checkbox"/> Both	Data collection instruments/tools available: No instruments available. Each impact statement includes the number of individuals reached and state-level measures by individual programs. There are links to resources on writing compelling impact statements.	
	Brief description: Updated annually, the 2023 the impact statements highlight state-level programs across 8 topic areas: childhood obesity prevention, community health and wellness, diabetes prevention and management, family stability and vitality, financial management, food and nutrition, healthy homes and environment, and home food safety and preservation. Each impact statement includes the number of individuals reached and descriptions of individual program outcome measures to celebrate the work accomplished across Family & Consumer Sciences Extension programs. NEAFCS impact statements are used to raise public awareness of FCS Extension among consumers, the media, and policy makers.	
Related to Framework Rec: <input checked="" type="checkbox"/> 1- Health equity <input checked="" type="checkbox"/> 2- Community Assessment <input type="checkbox"/> 3- System Support <input type="checkbox"/> 4- Grow Partnerships <input type="checkbox"/> 5- Coalition work		

Resource ID: 015	Title: Civic capacity index (CCI): measuring community capacity to respond to civic challenges	Year Published: 2022
Metric area(s) <input type="checkbox"/> Individual <input type="checkbox"/> Program <input checked="" type="checkbox"/> Community <input type="checkbox"/> System <input checked="" type="checkbox"/> Equity	Author(s): Colorado State University Extension	
	Link or way to access: https://engagement.colostate.edu/civic-capacity-index/ https://www.emerald.com/insight/content/doi/10.1108/IJPL-06-2022-0036/full/html (full text article not publicly available)	
	Contact David MacPhee (david.macphee@colostate.edu) for questions about administration and interpretation of the CCI or Patti Schmitt for all other information (flti-colorado@colostate.edu)	
	Health topics addressed: COVID-19 response, community development, community assessment, health-related coalitions, Diversity, Equity and Inclusion (DEI), civic engagement	
Metric Type: <input checked="" type="checkbox"/> Quantitative <input type="checkbox"/> Qualitative <input type="checkbox"/> Both	Data collection instruments/tools available: the CCI is not publicly available. The article describes the theoretical concepts and key facets of the index.	
	Brief description: The Civic Capacity Index (CCI) is a diagnostic tool for communities to determine how well they can work together to make decisions, solve problems, and adapt in a crisis. The CCI was created in partnership by a national panel of community members, practitioners and leadership experts using a concept mapping process. Experts identified what is needed in communities for community-driven change. The CCI assesses a community’s capacity for community-driven change (the capacity to create change from within rather than from a top-down approach) and is currently being piloted in rural and urban communities in Colorado measuring 6 dimensions of civic capacity: leadership, inclusion, institutions, civic culture, coalitions, and collaboration. The CCI helps inform, share, and evaluate local community development and intervention strategies such as civic leadership training programs, needs assessment, capacity building initiatives, policy development, problem-solving, and technical assistance. Publications on the validity and application of the tool are forthcoming.	
Related to Framework Rec: <input type="checkbox"/> 1- Health equity <input checked="" type="checkbox"/> 2- Community Assessment <input type="checkbox"/> 3- System Support <input checked="" type="checkbox"/> 4- Grow Partnerships <input checked="" type="checkbox"/> 5- Coalition work		

Resource ID: 016	Title: University of Georgia (UGA) Cross Family and Consumer Sciences Common Measures Survey	Year Published: 2020
Metric area(s) <input type="checkbox"/> Individual <input checked="" type="checkbox"/> Program <input type="checkbox"/> Community <input type="checkbox"/> System <input type="checkbox"/> Equity	Author(s): UGA College of Family and Consumer Sciences (FACS)	
	Link or way to access: For more information, please contact: Virginia Lee Brown (vlb85850@uga.edu) about the UGA FACS survey https://doi.org/10.34068/joe.58.06.06 (information about the Extension Public Value instrument): Lamm, A. J., Rabinowitz, A., Lamm, K. W., & Faulk, K. (2020). Measuring the Aggregated Public Value of Extension. The Journal of Extension, 58(6), Article 6.	
	Health topics addressed: agriculture, health disparities, well-being, mental health, SDOH, financial wellness, community development, economic development, education, environmental health, nutrition, food availability, housing, public safety, healthcare, risk prevention	
Metric Type: <input type="checkbox"/> Quantitative <input type="checkbox"/> Qualitative <input checked="" type="checkbox"/> Both	Data collection instruments/tools available: UGA FACS seven- question survey tool: not publicly posted (Note: content for 4 UGA novel questions is below.)	
	Brief description: One time, post program, participant seven question survey. Made up of 3 questions from the Extension Public Value instrument (see article above) and 4 novel questions (see below.) The Extension Public Value instrument was developed and used in GA to measure the impacts of Extension programs. Includes the three questions related to: Self-reported knowledge gain, intent to change behavior, and economic value. The UGA Cross FACS measure tool also includes these four questions: <ul style="list-style-type: none"> • Topic “Which of the following best describes the topic of the program?” Family, Food, Health, Home, Money • Broad health outcomes “Please indicate how you feel by marking the appropriate circle. As a result of this program, I feel...” (5 point scale Better → Worse, More healthy→ less healthy, More stable→ less table, Less stress→ more Stress, More in control→ less in control) • Open ended write in: “What was the most beneficial part of the program? Write your answer below.” • Open ended write in: “How would you summarize your experience in the program in one sentence?” 	
Related to Framework Rec: <input type="checkbox"/> 1- Health equity <input type="checkbox"/> 2- Community Assessment <input checked="" type="checkbox"/> 3- System Support <input type="checkbox"/> 4- Grow Partnerships <input type="checkbox"/> 5- Coalition work		

Resource ID: 017	Title: Expanded Food and Nutrition Education Program (EFNEP) impacts and reporting	Year Published: N/A
Metric area(s) <input type="checkbox"/> Individual <input checked="" type="checkbox"/> Program <input type="checkbox"/> Community <input type="checkbox"/> System <input checked="" type="checkbox"/> Equity	Author(s): U.S. Department of Agriculture (USDA) National Institute of Food and Agriculture (NIFA)	
	Link or way to access: https://www.nifa.usda.gov/grants/programs/capacity-grants/efnep/impacts-reporting-national-efnep-reports	
	Health topics addressed: nutrition, physical activity, financial wellness, food safety, youth development	
Metric Type: <input type="checkbox"/> Quantitative <input type="checkbox"/> Qualitative <input checked="" type="checkbox"/> Both	Data collection instruments/tools available: No instruments available. All program indicators listed in the national data report.	
	Brief description: The Expanded Food and Nutrition Education Program (EFNEP) is the nation’s first federal nutrition education program for low-income populations managed by USDA NIFA. Annual national data reports and impact reports are publicly available. EFNEP data by university is available through USDA's Research, Education and Economics Information System . National data reports share quantitative data by programmatic indicators (disaggregated by demographic groups) including counts of adult/youth participants, staff, and volunteers by institution. Impact reports share key highlights about the program including the demographics of adult and youth participants, changes to youth knowledge or practices and changes to adult behavior in the areas of diet quality, food resource management, food preparation, food safety and physical activity. This includes highlighted stories from individual institutions.	
Related to Framework Rec: <input checked="" type="checkbox"/> 1- Health equity <input checked="" type="checkbox"/> 2- Community Assessment <input type="checkbox"/> 3- System Support <input type="checkbox"/> 4- Grow Partnerships <input type="checkbox"/> 5- Coalition work		

Resource ID: 018	Title: North Central Region Community Development Extension Impact Report	Year Published: N/A
Metric area(s) <input type="checkbox"/> Individual <input checked="" type="checkbox"/> Program <input type="checkbox"/> Community <input checked="" type="checkbox"/> System <input checked="" type="checkbox"/> Equity	Author(s): North Central Regional Center for Rural Development	
	Link or way to access: https://ncrcrd.ag.purdue.edu/community-development/impact-reports/	
	Health topics addressed: community development, economic development, community partnerships, PSE	
Metric Type: <input type="checkbox"/> Quantitative <input type="checkbox"/> Qualitative <input checked="" type="checkbox"/> Both	Data collection instruments/tools available: No instruments available. Page 5 of the report includes an info graphic of the regional indicators.	
	Brief description: Annual reports describing the activities and impact of the North Central Region’s Community Development efforts. All four regional rural development centers produce annual impact reports, but the North Central and Southern regions appear to be the only ones collecting common quantitative measures on their community development work across their institutions. In the North Central Region’s 2022 annual report twelve institutions reported on some or all of the following indicators: <ul style="list-style-type: none"> • # of overall/BIPOC program participants • # participants who reported new leadership roles and opportunities • # of community or organizational plans/policies developed • # of jobs retained • # of business plans developed and # of businesses created • # volunteer hours for community generated work • \$ amount of grants and resources generated by communities • \$ amount of volunteer hours leveraged to deliver programs • \$ amount of resources leveraged by businesses <p>The report also displays data on the above indicators for each institution in the region along with a narrative description of their activities and relevant outcomes.</p>	
Related to Framework Rec: <input type="checkbox"/> 1- Health equity <input type="checkbox"/> 2- Community Assessment <input type="checkbox"/> 3- System Support <input checked="" type="checkbox"/> 4- Grow Partnerships <input checked="" type="checkbox"/> 5- Coalition work		

Resource ID: 019	Title: Southern Region Extension Community Development Impacts	Year Published: N/A
Metric area(s) <input type="checkbox"/> Individual <input checked="" type="checkbox"/> Program <input type="checkbox"/> Community <input checked="" type="checkbox"/> System <input type="checkbox"/> Equity	Author(s): Southern Rural Development Center (SRDC)	
	Link or way to access: https://srdc.msstate.edu/annual-reports	
	Health topics addressed: community development, economic development, community partnerships, PSE	
Metric Type: <input type="checkbox"/> Quantitative <input type="checkbox"/> Qualitative <input checked="" type="checkbox"/> Both	Data collection instruments/tools available: No instruments available. Page 8 of the report includes an info graphic of the regional indicators.	
	Brief description: Annual reports describing the activities and impact of the Southern Region’s Community Development efforts. All four regional rural development centers produce annual impact reports but the North Central and Southern regions appear to be the only ones collecting common quantitative measures on their community development work across their institutions. In the Southern Rural Development Center’s 2022 annual report twenty-nine institutions reported on the following indicators: <ul style="list-style-type: none"> • # of jobs created/retained • # new alliances/networks formed • # plans adopted and implemented in communities, agencies, local government, businesses or disaster • # participants who reported new leadership roles and opportunities • # businesses created, retained or expanded • # of full-time equivalent staff • \$ amount of in-kind resources contributed by organizations/communities • \$ amount of grants acquired by organizations/communities 	
Related to Framework Rec: <input type="checkbox"/> 1- Health equity <input type="checkbox"/> 2- Community Assessment <input type="checkbox"/> 3- System Support <input checked="" type="checkbox"/> 4- Grow Partnerships <input checked="" type="checkbox"/> 5- Coalition work		

Resource ID: 020	Title: University of Tennessee Extension Impact Report	Year Published: 2022
Metric area(s) <input type="checkbox"/> Individual <input checked="" type="checkbox"/> Program <input type="checkbox"/> Community <input checked="" type="checkbox"/> System <input type="checkbox"/> Equity	Author(s): University of Tennessee Institute of Agriculture	
	Link or way to access: https://utextension.tennessee.edu/wp-content/uploads/sites/5/2023/01/Extension-Impact-Report-WEB_12.21.2022.pdf	
	Health topics addressed: community development, economic development, agriculture, youth development	
Metric Type: <input type="checkbox"/> Quantitative <input type="checkbox"/> Qualitative <input checked="" type="checkbox"/> Both	Data collection instruments/tools available: No instruments available. Pages 3 and 4 of the report have info graphics of the institution-wide indicators.	
	Brief description: Annual report describing the activities and impact of University of Tennessee Extension. Although many institutions produce annual reports this is an example of cross-program metrics being used to tell the story of Extension’s impact. In addition to highlighting individual Extension programs activities their 2022 annual report reported on the following indicators across programs (“Extension by the Numbers”): <ul style="list-style-type: none"> • cost benefit analysis (i.e., for every \$1 of public funds invested in UT Extension programs, an estimated \$8.29 is returned to the people of Tennessee) • \$ amount of grants and contracts as well as total funding for Extension • \$ amount of economic impact by Extension programs, total and by program • # of Extension agents, specialists/faculty, staff, and volunteers • # of contacts with the public (includes # of contacts through group meetings, on-site visits, and digital contacts) • # of volunteer hours • \$ amount estimate of volunteer time (calculated using the standard rate for volunteer hours by independentsector.org/resource/value-of-volunteer-time/) 	
Related to Framework Rec: <input type="checkbox"/> 1- Health equity <input type="checkbox"/> 2- Community Assessment <input type="checkbox"/> 3- System Support <input checked="" type="checkbox"/> 4- Grow Partnerships <input checked="" type="checkbox"/> 5- Coalition work		

Appendix A: Cross-Reference of Resources by Health Topics

Health Topic	Relevant Resource IDs	Health Topic (cont'd)	Relevant Resource IDs
Agriculture	001, 012, 013, 014, 016, 017, 020	Obesity prevention	001, 003, 014
Civic engagement	005, 015	Physical activity	001, 005, 014, 017
Community development	002, 008, 012, 013, 015, 016, 018, 019, 020	Policy Systems & Environment (PSE)	001, 004, 007, 018, 019
Community health assessment (CHA)	001, 002, 003, 004, 008, 011, 012, 015	Public safety	013, 016
Community health improvement planning (CHIP)	004	Risk prevention	005, 013, 016
Community partnerships	001, 006, 007, 008, 018, 019	Social Determinants of Health (SDOH)	004, 013, 014, 016
COVID-19 response	011, 015	Staff hiring practices	009, 010
COVID-19 vaccination	011, 012	Staff performance guidelines	006, 007
Cultural competency	009	Well-being	001, 004, 013, 014, 016
Diabetes prevention	001, 003, 014	Youth development	005, 014, 017, 020
Diversity, Equity, and Inclusion (DEI)	006, 009, 010, 015		
Economic development	002, 013, 016, 018, 019, 020		
Education	001, 005, 013, 014, 016		
Environmental health	013, 014, 016		
Financial wellness	014, 016, 017		
Food availability	001, 003, 013, 014, 016		
Food safety	001, 014, 017		
Food systems	001, 013		
Healthcare	001, 013, 016		
Health disparities	004, 013, 014, 016		
Health-related coalitions	001, 004, 007, 008, 015		
Housing	013, 014, 016		
Immunization	011		
Mental health	013, 014, 016		
Nutrition	001, 003, 005, 013, 014, 016, 017		

Appendix B: Program, Community, and Equity Metric Areas by Metric Type

Descriptive table of program, community, and equity metric areas. Connections to the Framework recommendations indicated in the first column.

Element (Framework)	Metric types	Examples of metrics
PROGRAM: Promote healthy behaviors through communication & education	Reach	# participants in programs/trainings/events; # people reached by ed campaigns
	Individual outcomes	# and % change in participants' awareness, knowledge, attitudes, or behaviors
	Communications	# and type of communication products/ed campaigns; website/social media stats
COMMUNITY: Create healthy communities through collective action (Recs 2, 4, & 5)	Coalition descriptors	# coalitions per County; status, Ext staff involved, focus area(s), role of Extension in coalition; # of youth engaged in coalitions; ways Ext benefits coalitions
	Build capacity of partners/coalitions	
	Volunteers & Partnerships	# and types of trainings completed w/ coalition members
	Impact	# and % change in coalition members' awareness, knowledge, or actions
	\$ Value	# and types of partnerships/alliances/networks; # of champions
		# volunteers; # volunteer hours for community-generated work
		# and type of PSE changes; % of sites/organizations with PSE changes
	# and type of community-wide recognition programs applied for/achieved	
	\$ value of volunteer hours leveraged to deliver programs	
	\$ value of grants/resources leveraged/generated by communities	
EQUITY: Identify and address health inequities (Recs 1 & 2)	Participant/community descriptors	Participant demographics (age, race, ethnicity); % at or below 100% of the poverty line
	Population-level trends and change in disparities	% participants by demographic group who report or demonstrate desired behavior over time

Appendix C: Key methods for understanding community impact: Examples from two Extension institutions

Cochise Building Healthy Communities Summative Evaluation Report 2018-2021

Link: <https://extension.arizona.edu/sites/extension.arizona.edu/files/attachment/bhc-summative-report-2022.pdf>

University of Arizona Cooperative Extension

Evaluation of the 3-year Building Healthy Communities initiative using the **collective impact framework**. The team used **ripple effects mapping** and **social network analysis** to evaluate collective impact design and implementation. For more information, please contact Michele Walsh (mwalsh@arizona.edu).

The LSU AgCenter *Healthy Communities Initiative*: Community-Participatory Policy, Systems, and Environmental Change

Link: <https://doi.org/10.1016/j.jneb.2023.02.003>

Louisiana State University Agriculture Center

Article in the *Journal of Nutrition Education and Behavior* describing the Healthy Communities Initiative and evaluation results. The aim of the initiative is to solicit community input support for the implementation of PSE change interventions through coalitions. The mixed methods evaluation utilized **quantitative indicators of PSE change from the SNAP-Ed evaluation framework** and a participatory **ripple effects mapping (REM) exercise** using the community capitals framework to qualitatively understand the impact of changes. Program materials are publicly available via a link in the article and include a timeline and plan for a community needs assessment, communication materials, coalition member job descriptions, REM protocol, and a PSE change and collaborative decision-making tool. For more information, please contact Matthew Green (mgreene@agcenter.lsu.edu).