



# ALICE RESEARCH METHODOLOGY

## Overview & Rationale

April 2023



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# ALICE RESEARCH AND METHODOLOGY

United for ALICE conducts timely, high-quality research to better understand the nature and scope of financial hardship in the U.S. – from a national perspective down to the local level. To develop the ALICE Methodology, ALICE researchers collaborate with a Methodology Advisory Committee composed of experts from across the country, drawn from the Research Advisory Committees for each ALICE partner state. This process takes place every two years. This collaborative model ensures that all ALICE products and tools are based on publicly available data that is transparent, replicable, current, and sensitive to local context.

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Learn more about the ALICE Research Team on our website at [UnitedForALICE.org/ALICE-Team](https://UnitedForALICE.org/ALICE-Team)

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# METHODOLOGY OVERVIEW & RATIONALE

## FOR USE WITH 2022 AND 2023 ALICE REPORTS (2020 AND 2021 DATA YEARS)

### Introduction

**ALICE**, an acronym for **A**sset **L**imited, **I**ncome **C**onstrained, **E**mloyed, represents the growing number of individuals and families who are working, but are unable to afford the basics of housing, child care, food, transportation, health care, and technology.

Each ALICE Report uses standardized measurements to quantify the cost of a basic household budget in each county in each state, and to show how many households are unable to afford that budget.

This Methodology Overview describes the rationale for developing ALICE, an alternative to the Federal Poverty Level; the guiding parameters for ALICE measures; the seven current ALICE measures; and the methodology and data sources used for each measure.

To learn more about United for ALICE, go to [UnitedForALICE.org/Overview](https://UnitedForALICE.org/Overview)

## TABLE OF CONTENTS

<b>Background: Shortcomings of Official Economic Indicators</b> .....	<b>1</b>
<b>Parameters</b> .....	<b>2</b>
<b>The ALICE Measures</b> .....	<b>3</b>
<b>Methodology: ALICE Household Survival, Senior, and Stability Budgets</b> .....	<b>4</b>
<b>Methodology: The ALICE Threshold</b> .....	<b>16</b>
<b>Methodology: The ALICE Essentials Index</b> .....	<b>19</b>
<b>Methodology: The ALICE Income Assessment</b> .....	<b>19</b>
<b>Methodology: Economic Benefits of Equity</b> .....	<b>21</b>
<b>Additional Considerations</b> .....	<b>23</b>

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# BACKGROUND: SHORTCOMINGS OF OFFICIAL ECONOMIC INDICATORS

An accurate and comprehensive measure of the scope, causes, and consequences of financial hardship forms the basis for identifying problems, planning policy solutions, and allocating resources. However, the existing official economic indicators can mask the extent of hardship that ALICE households face.

## The Federal Poverty Level

Since the War on Poverty began in 1964, the Federal Poverty Level (FPL) has provided the standard for determining the number and proportion of people living in poverty in the U.S. Despite the FPL's benefit of providing a nationally recognized income threshold for determining who is poor, its shortcomings are well documented.

Primarily, the measure is not based on the cost of contemporary household necessities, and except for Alaska and Hawai'i, it is not adjusted to reflect cost-of-living differences across the U.S. The net effect is an undercount of households living in economic hardship. The official poverty level is so understated that many government and nonprofit agencies use multiples of the FPL to determine eligibility for assistance programs. For example, Pennsylvania's Low Income Home Energy Assistance Program uses 150% of the FPL and Tennessee's Women, Infants, and Children Program uses 185%. Even the Children's Health Insurance Program uses multiples of the FPL to determine eligibility across the country.

In addition, the term "poverty" itself, which the FPL seeks to measure, is vague and lacks any assessment of the depth, duration, or consequences of financial hardship. In addition, the term has negative connotations and is often and inaccurately associated with a lack of employment.

In light of the FPL's limitations, a plethora of alternatives have been developed, demonstrating the need for better measures of economic insecurity:

**The Supplemental Poverty Measure (SPM)** is based on the costs of food, clothing, shelter, and utilities (but not health care and child care), as well as the value of noncash benefit government programs designed to assist low-income families and individuals. The U.S. Census Bureau generally uses the SPM to describe economic need. In 2020, for the first time, the national SPM rate was lower than the FPL, 9.1% versus 11.4%. Though it does not differ greatly from the FPL in nine states, the SPM is lower than the FPL in more than half of states and higher in the rest.

**Area Median Income (AMI)**, also referred to as Family Median Income, reports relative income within a geographic area. The Department of Housing and Urban Development (HUD) typically uses percentages of AMI to determine eligibility for housing assistance: Low-income households earn less than 80% of the AMI, very low-income households earn less than 50%, and extremely low-income households earn less than 30%. AMI is the basis for other measures such as the National Poverty Plan Standards (NPPS). Because AMI is an income measure, it does not necessarily reflect actual costs in the area, especially the cost of housing, as HUD has even acknowledged by adjusting the limits in metro areas. As a result, the measure does not reflect how many low-income households can support themselves; households at 50% AMI might be able to afford a Household Survival Budget, but they might not.

**Cost of Living Budgets** estimate the cost of basic household needs, generally calculated at the state or county level. These are produced by myriad universities and think-tanks; they include the Massachusetts Institute of Technology's Living Wage Calculator, the Economic Policy Institute's Family Budget Calculator, the University of Washington's Self-Sufficiency Standard, and several state-level budgets, including The Cost of Living in Iowa. Each has its own definition and purpose, such as defining the cost of stability or good health, or a living wage. Some are an academic pursuit, and others are linked to a public policy agenda.

**The ALICE Household Survival Budget** is the lowest-cost budget and fills the gap left by the other measures by comprehensively measuring the actual cost of the basic household goods that families need in the county where they live. The two most common measures used in public policy fall short: the FPL is not based on current or local costs, and AMI does not reflect costs at all, but rather income.

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# Inflation

Official measures of inflation make it difficult to assess the increase in expenses that ALICE families face over time. The most common measure of inflation, the Bureau of Labor Statistics' Consumer Price Index (CPI), measures the change in the price consumers pay for a specified large collection of goods and services across urban areas in the U.S. While this measure provides important information on year-to-year inflation and spending habits, two fundamental shortcomings make it less relevant for ALICE households: 1) Because the CPI covers a wide range of goods and services that all Americans buy regularly, it masks changes in the cost of household essentials – those things that matter most to ALICE, including housing, child care, food, transportation, health care, and technology; and 2) the CPI only tracks the prices paid by urban consumers, while ALICE households live in urban, suburban, and rural areas.

The ALICE measures outlined in this Methodology Overview address these shortcomings, to more accurately identify and assess financial hardship in the U.S.

## PARAMETERS

All ALICE measures are transparent, replicable, current, sensitive to local context, and developed based on the following parameters:

1. **Base financial status on household income.** Because people live in a variety of economic units (alone, in families, with roommates, etc.), all ALICE measures are based on household income. Consistent with the U.S. Census Bureau's American Community Survey (our primary source of data), ALICE households do not include those living in group quarters, such as college dorms, nursing homes, homeless shelters, or prisons.
2. **Define the basic cost of living.** The ALICE measures provide a conservative estimate for the costs of household essentials: housing, child care, food, transportation, health care, and technology, plus miscellaneous expenses and taxes.
3. **Measure the number of all households unable to afford the basic cost of living.** To provide a full understanding of a community, the ALICE analysis includes all households. Most households have at least one member who is working, and because employment is fluid, other households include those who have worked or are looking for work. Where possible, it is also important to understand households' demographic characteristics and geographic distribution, as well as the demographic characteristics and access to resources of the individuals within those households.
4. **Analyze the differences in experience between households above and below the ALICE Threshold** (those able and unable to afford the basic cost of living). Because national averages often conceal the challenges and difficulties that low-income households face, the ALICE measures can be helpful in uncovering differences.
5. **Provide data at the local level.** Counties serve as the base geographic unit of analysis because they are the smallest jurisdiction for which there is reliable data across the country. Where possible, ALICE indicators are also presented at the U.S. Census Bureau's municipal, county subdivision, and ZIP code levels. Providing local-level data, whenever possible, helps address significant intracounty variation.
6. **Use official and publicly available sources to ensure transparency and replicability.** All ALICE data comes from official or other publicly available sources, including the U.S. Census Bureau, HUD, the U. S. Department of Agriculture (USDA), and the Bureau of Labor Statistics (BLS). Specifically, using readily available data from the American Community Survey's tabulated data as the basis for estimates ensures that calculations are transparent and easily verifiable.
7. **Use data that is regularly updated and available for all U.S. counties.** ALICE measures are standardized using county-level data that is publicly available and regularly collected and updated to allow for transparency and accurate change-over-time comparison.
8. **Identify important contextual conditions.** Because economic hardship does not occur in a vacuum, the ALICE measures provide the means to understand the conditions that struggling households face (such as fewer job opportunities), as well as the consequences of those struggles for the wider community (for example, longer

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commutes as workers find lower-cost homes farther away from job sites, or stress on emergency rooms overused for primary care).

9. **Use neutral language.** Because the term “poverty” carries negative connotations, a more specifically descriptive acronym is offered. The term “ALICE” describes a household that is Asset Limited, Income Constrained, Employed, and “households below the ALICE Threshold” indicates both ALICE households and those living in poverty (employed and unemployed), drawing a more inclusive and accurate picture of the number of households in hardship.

## The Impact of the Pandemic

The COVID-19 pandemic impacted life in so many ways in 2020 and 2021, disrupting long-term patterns in how and where people lived, worked, studied, saved, and spent their time. The pandemic also disrupted data collection. For the American Community Survey, the closure of its processing center in mid-March 2020 impacted printing and sending of surveys; reduced staff and social-distancing limited mailing capabilities following the shut-down; and in-person follow-ups were suspended for almost three months. The Census Bureau has already acknowledged that the 2020 American Community Survey data had the lowest response rate in the history of the survey at 71% (down from 86% in 2019 and 92% in 2018) and did not meet their quality standards. In addition, with many stores, businesses, and schools closed, consumption patterns were largely disrupted. As a result, we do not include 2020 ACS data in our reports. There are other anomalies in spending and cost data during this time period; we note specifically the BLS’ Consumer Expenditure Survey (CEX) and the cost of public transportation. In addition, with many child care providers closed during 2020, regular collection of market-rate surveys of child care costs either was delayed or included incomplete cost information.

## THE ALICE MEASURES

The following measures are used by United for ALICE to quantify the basic cost of living, identify and assess financial hardship, identify gaps in assistance and community resources, and track change over time:

**The ALICE Household Survival Budget** is the bare-minimum estimated cost of household basics needed to live and work in the modern economy. These basic budget items include housing, child care, food, transportation, health care, and technology, plus taxes and a contingency fund (miscellaneous) equal to 10% of the household budget. The budget is calculated separately for each county and for different household types and is updated as costs and household needs change over time. **The ALICE Senior Survival Budget** adjusts the Household Survival Budget to reflect reduced spending on food, as seniors typically spend less on food than younger and family households; reduced spending on transportation, as seniors travel fewer miles for work and family responsibilities; and, because seniors have greater health needs, increased spending on health care, even when enrolled in Medicare. Finally, for comparison to a budget that provides stability to a household over time, United For ALICE also reports **the ALICE Household Stability Budget**, which provides an estimate of slightly higher standards than the Household Survival Budget, including a 10% savings category.

**The ALICE Threshold** represents the minimum income level necessary to afford a bare-minimum household budget. Derived from the Household Survival Budget, the ALICE Threshold is rounded to the nearest American Community Survey income category and adjusted for household size and composition for each county. Households earning **below the ALICE Threshold** include both those in poverty (with income below the FPL) and those that are ALICE (earning above the FPL but below the Household Survival Budget for their county).

**The ALICE Essentials Index** is a state and national measure that tracks the increase in costs of specific necessities and that can be seen as a companion to or subset of the BLS’ CPI, which covers all goods and services people buy regularly. The basic goods included in the Essentials Index are found in the Household Survival Budget and

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standardized to provide a way to track them for all households, whereas a budget focuses on a particular household composition. The ALICE Essentials Index is calculated for both urban and rural areas.

**The ALICE Income Assessment** is a tool that measures: 1) how much income households in a state need to reach the ALICE Threshold; 2) how much they actually earn; 3) how much public and nonprofit assistance is provided to help households below the ALICE Threshold meet their basic needs; and 4) the Unfilled Gap – the amount still needed for these households to reach the ALICE Threshold despite both income and assistance.

**The Economic Benefits of Equity** quantifies the benefits of raising the income of all households in a state to the ALICE Threshold. The analysis includes additional earnings; additional taxes paid on higher incomes and reduced usage of tax credits for low-income earners; savings on government programs that alleviate poverty; and the multiplier effect of each category on the state GDP.

## METHODOLOGY: ALICE HOUSEHOLD SURVIVAL, SENIOR, AND STABILITY BUDGETS

### Overview

**ALICE**, an acronym for **A**sset **L**imited, **I**ncome **C**onstrained, **E**mloyed, represents the growing number of individuals and families who are working, but are unable to afford the household basics of housing, child care, food, transportation, health care, and technology. The Household Survival Budget is one of a suite of measures from United For ALICE to quantify the basic cost of living, identify and assess financial hardship, identify gaps in assistance and community resources, and track change over time.

For the rationale for developing ALICE, an alternative to the Federal Poverty Level (FPL), as well as the guiding parameters for ALICE measures; details of all the ALICE measures; and the methodology and data sources used for each measure, see the Methodology page on our website: [UnitedForALICE.org/Methodology](https://UnitedForALICE.org/Methodology)

### The ALICE Household Survival Budget

The Household Survival Budget is comprised of conservative estimates of the cost of household essentials – housing, child care, food, transportation, health care, and technology, plus taxes and a 10% contingency (miscellaneous expenses) – in each county in the U.S. The budget is the bare-minimum cost to live and work in the modern economy. It is not sustainable over time, and it is not meant to be a recommended budget. There are many short- and long-term consequences of living on a budget at or below this level, and they are highlighted in our 2019 Report, *The Consequences of Insufficient Household Income*.

### Survival Budget for Households Headed by Someone Under 65 Years Old

The Household Survival Budget is calculated for different household combinations of adults, infants, preschoolers, and school-age children (5–17). The data definitions and sources follow, along with notes about the practical applications of these sources.

- **Housing:** The housing budget is composed of rent and utilities.
  - Rent:** Rent is based on HUD’s Fair Market Rent (HUD FMR – generally the 40<sup>th</sup> percentile of gross rents, but in some locations HUD reports the 50<sup>th</sup> percentile) for an efficiency apartment for a single person; a one-bedroom apartment for a head of household with a child or a household with two adults; a two-bedroom apartment for a family of three or four people; and an additional bedroom for each additional two people (based on the average cost increase from one- to two-, two- to three-, and three- to four-bedroom apartments). Since FMRs are not



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published for apartments with over four bedrooms, the HUD adjustment factor rule from the [Federal Register](#) is used to create FMRs for larger units.

Gross rent, as reported by the FMR, includes the sum of the rent paid to the owner plus any utility costs incurred by the tenant. To report just the rent, we subtract the cost of utilities as estimated by the CEX, described further below.

Since HUD uses the same FMR for all counties within a metropolitan area, the Household Survival Budget adjusts the rent in these areas using the standard deviation from the lowest of the American Community Survey's Median Gross Rent 5-year estimates (which includes the cost of utilities). Specifically, counties at or below the median value within the metropolitan area will be assigned the FMR as their housing cost, and counties for which the American Community Survey housing cost is higher will be adjusted upward based on the deviation from the metropolitan median.

**Practical Application:** Housing at the 40<sup>th</sup> rent percentile is [often not available](#). From the data on housing burden, it is clear that housing units are not always allocated by income, making it even harder for ALICE and poverty-level households to find housing at or below HUD's FMR. Alternative measures or data sources, such as [rent reasonableness](#), may be more accurate in some contexts but are not possible to calculate for all counties in the U.S., and are therefore not included in the ALICE measures.

**Utilities:** The annual cost of utilities is based on the CEX's estimate of natural gas, electricity, fuel oil and other fuels, and water and other public services. The cost is adjusted by the number of people in the household.

**Practical Application:** The cost of utilities is often higher for [low-income households](#), many of which do not have resources to maintain or update furnaces, air conditioners, water heaters, etc. As a result, their units are less efficient and use larger – and costlier – amounts of energy. Research shows that 34% of households faced [energy insecurity](#) in 2020, and across all metro areas, low-income, Black, Hispanic, Native American, and older-adult households had [disproportionally higher energy burdens](#) than the average household.

### Housing Data Sources

U.S. Department of Housing and Urban Development (HUD). (2021). *Fair Market Rents*. Retrieved from [https://www.huduser.gov/portal/datasets/fmr.html#2021\\_data](https://www.huduser.gov/portal/datasets/fmr.html#2021_data)

American Community Survey. (2021). *5-year estimates* [Table B25064: Median gross rent (dollars)]. U.S. Census Bureau. Retrieved from <https://data.census.gov/cedsci/>

*Utilities, fuels, and public services:* Bureau of Labor Statistics. (2021). *Consumer Expenditure Surveys: Size of consumer unit by income before taxes* [Table 3404; Table 3424; Table 3434; Table 3444; Table 3454]. Retrieved from <https://www.bls.gov/cex/tables/cross-tab/mean.htm#cu-sizebyinc>

- **Child Care:** The child care budget is for registered Family Child Care Homes for infants (age 0–2 years), preschool-age (age 3–4), and school-age children (age 5–12), using data provided by each state's governmental department in charge of child care regulations. States are [required to survey market rate costs](#) every three years. Some states, however, conduct their surveys more frequently. Data collection varies by state. When available, the costs presented are the 75<sup>th</sup> percentile; otherwise, the percentile is noted. Children under 5 years old are assumed to need full-time year-round care, where full-year care means 5 days per week for 50 weeks per year. Costs for school-age children are the least systematically reported, so are calculated at 3/8 the cost of full-time care for a 4-year-old; thus school-age children are assumed to need part-time care throughout the year. When data is missing, regional or state averages are used (although missing data may mean that child care facilities are not available in those counties, and residents may be forced to use facilities in neighboring counties). In a few instances, counties will not have data for family child care homes, but will have data for child care centers; in that case, if the county's center cost is lower than the regional or state average for family homes, the center costs are used for the Survival

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Budget. When early years of child care cost reports by county are no longer available from the state, the state averages recorded by [Child Care Aware of America](#) are used to back fill; county variation from the most recent reports is applied.

During the pandemic, data collection of child care costs was severely impacted due to COVID-19 shutdowns and stay-at-home orders, and many states filed waivers to extend their collection period. The Household Budgets use the latest market rate survey data available.

**Practical Application:** While Family Child Care Homes are the least expensive registered child care option, [availability is limited](#) in many communities, which means that households below the ALICE Threshold often pay more, travel farther, or sacrifice quality and safety. In addition, it is often a challenge to find care for [children age 5–12 during the summer](#), and there are health and safety concerns if they are on their own.

### Child Care Data Sources

State governmental department in charge of child care regulation, such as:

Hawaii: State of Hawaii Department of Human Services. (2022, June). *Hawaii child care market rate study: Summary of results*. Retrieved from <https://humanservices.hawaii.gov/bessd/files/2022/06/2022-Hawaii-Child-Care-Market-Rate-Survey.pdf>

Illinois: Norton, J., Salrin, R., Lee, C., & Whitehead, J. (2021). *Market rate survey of licensed child care programs in Illinois fiscal year 2021*. Illinois Department of Human Services. Retrieved from <https://www.dhs.state.il.us/page.aspx?item=138558>

Maryland: Maryland Family Network. (2021, June). *Final report: Maryland child care market rate June 2021 market rate survey*. Retrieved from [https://earlychildhood.marylandpublicschools.org/system/files/filedepot/19/09-15-2021\\_june\\_2021\\_mrs\\_report.pdf](https://earlychildhood.marylandpublicschools.org/system/files/filedepot/19/09-15-2021_june_2021_mrs_report.pdf)

- **Food:** The food budget is based on the Thrifty Level (the lowest of four levels) of the USDA Food Plans. Traditionally, the Thrifty Food Plan has been required to be updated annually on a cost neutral basis. Following the 2018 Farm Bill, updates to the Thrifty Food Plan, starting in 2021, must be based instead on data and evidence on the cost for which resource-constrained households can purchase a [healthy, practical diet](#). As a result, the costs for the Thrifty Food Plan increased substantially from prior years, and this increase will be reflected in the food costs in the 2021 Household Survival Budget.

The household food budget is adjusted for six select household compositions including: single adult (calculated as the average of the male and female cost), 20–50 years old; family of two adults, 20–50 years old; one adult and one child, 2–3 years old; one adult and one child, 9–11 years old; family of four with two adults and two children, 2–3 and 4–5 years old; and family of four with two adults and two children, 6–8 and 9–11 years old. Data is drawn from June, the basis for the following October’s [SNAP benefit adjustment](#). The USDA publishes a U.S. average for the cost of food; like the FPL, the USDA also publishes costs specific to Alaska and Hawai’i. The percent difference between reported costs for a Thrifty Food Plan for a reference family of four (two adults, 20–50 years old and two children, 6–8 and 9–11 years old) in Alaska and Hawai’i and the U.S. average is used to adjust final costs for the two states separately.

**Options for food for families with pregnant individuals, mothers of young children, or children:** The amount of WIC and free school meals can be added to cover the cost to [supplement the diets](#) of mothers and children with specific nutrients from specific foods each month as prescribed by legislation.

- WIC amounts are based on reimbursement rates set in [2007 legislation](#) and then [adjusted for inflation](#) as prescribed by subsequent legislation.
- Since school meal prices are [set by local school districts](#), the Survival Budget uses the standardized reimbursement rates as published annually in the Federal Register, [accessed through USDA](#).

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Food budget numbers are adjusted to the county level using Feeding America’s Cost-of-Food Index, with a lag of one year, starting in 2009. This indicator is generated by [Feeding America](#) using data from Nielsen PLC on Universal Product Code (UPC) barcodes of Thrifty Level Food Plan items in grocery stores throughout the country, and it [includes state and county sales tax](#) on food where applicable. The calculations for Alaska and Hawai’i are adjusted using county-level Feeding America’s Cost-of-Food Index within each respective state. Prior to 2009, prices are adjusted at the regional level using an [adjustment factor from the USDA](#).

**Practical Application:** The Thrifty Food Plan was designed to meet the nutritional requirements of a healthy diet; however, it includes foods that need a lot of [home preparation time](#) with little waste, plus skill in both buying and preparing food. This means that food costs are routinely underestimated: Even ALICE households trying to keep food costs at a minimum [may not be able to feed their families](#) on a Thrifty Food Plan Budget.

### Food Data Sources

*Food Costs: U.S. Department of Agriculture (USDA). (2021). Thrifty Food Plan, 2021 [June 2021 tables]. Retrieved from <https://fns-prod.azureedge.us/sites/default/files/resource-files/TFP2021.pdf>*

*Alaska and Hawai’i Food Costs: U.S. Department of Agriculture (USDA). (2022). Official USDA Alaska and Hawaii Thrifty Food Plans. Retrieved from [https://fns-prod.azureedge.us/sites/default/files/media/file/AKHI\\_June%202022.pdf](https://fns-prod.azureedge.us/sites/default/files/media/file/AKHI_June%202022.pdf)*

*County Variation After 2009: Gundersen, C., Strayer, M., Dewey, A., Hake, M., & Engelhard, E. (2022). Map the Meal Gap 2022: An Analysis of County and Congressional District Food Insecurity and County Food Cost in the United States in 2020. Feeding America. Retrieved from <https://map.feedingamerica.org/>*

*Regional Variation Before 2009: Economic Research Service (n.d.). Regional variation nearly double inflation rate for food prices. Retrieved from [https://www.ers.usda.gov/webdocs/publications/44331/10609\\_page19.pdf?v=41055](https://www.ers.usda.gov/webdocs/publications/44331/10609_page19.pdf?v=41055)*

- **Transportation:** The transportation budget is calculated using average annual expenditures for transportation by car and by public transportation. Because public transportation is generally less expensive than owning a car, low-income households are more likely to use transit for work where it is available. The Household Survival Budget uses the cost of public transportation when it is deemed a viable option, which is defined as 8% or more of the metropolitan statistical area and county population using public transportation to commute to work (in counties where the working population is over 25,000), as reported by the American Community Survey. This threshold suggests there is [sufficient infrastructure](#) to make transit a viable means to commute to work. The budget includes the average annual expenditures for public transportation from the CEX. CEX data is reported by metropolitan statistical areas and U.S. regions; the budget matches counties to these jurisdictions. Costs are adjusted for household size. Public transportation includes bus, trolley, subway, elevated train, railroad, and ferryboat. The drastic reduction in ridership on public transportation during the pandemic largely excluded on-site ALICE workers who still had to commute, and transit fares did not decrease during this period. Therefore, to best reflect the actual cost of public transportation in 2021, the budget uses the average annual expenditures for public transportation in 2019.

For transportation by car, the budget is tailored to household size and composition. State-level annual costs for minimum-liability car insurance from the insurance aggregator The Zebra are used, which due to differing minimum requirements and insurance marketplaces show the largest variation of all car-related costs (ranging from \$255 in South Dakota to \$1,191 in Michigan in 2021). For many low-income households, car insurance rates are [higher for those with a low credit score](#).

Car maintenance expense data comes from AAA and includes gas, oil, and other vehicle maintenance expenses, but not major repairs. Because AAA estimates costs for a new car, maintenance costs are likely higher for ALICE

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families who, for this budget, we assume drive a 10-year-old car. The costs include depreciation (though minimal on a 10-year-old car), but not capital costs such as lease payments or car loan payments.

The calculation is the sum of household members' average daily miles of travel, from the Federal Highway Administration, per person by age, times the cost per mile by car type times 300 days (50 work weeks, 6 days per week), plus license and fees by type of car, plus depreciation, plus minimum liability insurance by state.

$$[(\text{Average daily miles} * \text{cost per mile}) * 300] + \text{license and fees} + \text{depreciation} + \text{insurance}$$

The budget assumes one car per family, though the size of the car increases from a small sedan to a medium sedan when more than two people live in the household. When estimating miles driven, adults are assumed to be between 36 and 65 years old and children are assumed to be under 16. The budget assumes each additional adult is an additional driver. The budget also assumes that each driver has a clean driving record and that those who are high-risk drivers do not drive.

**Practical Application:** Since ALICE families often drive older cars, the cost of vehicle maintenance is likely higher than the budget allots. [Consumer Reports 2020 Auto Survey](#) found that maintenance costs for a 10-year-old car were almost double the costs for a 5-year-old car. And for many households, there are additional costs for young drivers or those with a recent accident.

For public transportation, even within metro areas, coverage varies. In some cities, public transportation is efficient in and out of suburbs but not across town. In others, there are large areas with no coverage. In most places, however, public transportation often does not go the full distance that most workers need, leaving gaps getting to and from work. Transportation costs are also likely underestimated for rural areas. With almost no public transportation, rural residents rely more on cars, and with greater distances to travel, they drive more than urban residents (as much as 33% more). As a result, their gas and maintenance costs are higher as well.

### Transportation Data Sources

*Transportation by Car:* AAA. (2021). *Your driving costs*. Retrieved from <https://newsroom.aaa.com/wp-content/uploads/2021/08/2021-YDC-Fact-Sheet-FINAL-8-9-21.pdf>

Federal Highway Administration. (2017). *2017 National Household Travel Survey*. U.S. Department of Transportation. Retrieved from [https://nhts.ornl.gov/assets/2017\\_nhts\\_summary\\_travel\\_trends.pdf](https://nhts.ornl.gov/assets/2017_nhts_summary_travel_trends.pdf)

*Car Insurance:* The Zebra. (2022). *Average premiums by coverage 2022* [Unpublished raw data].

*Public Transportation:* Bureau of Labor Statistics. (2021). *Consumer Expenditure Surveys [2020–21 MSA tables]*. Retrieved from <https://www.bls.gov/cex/tables.htm#geo>

American Community Survey. (2021). *5-year estimates* [TableB08301: Means of transportation to work]. U.S. Census Bureau. Retrieved from <https://data.census.gov/cedsci/>

- **Health Care:** The health care budget is the hardest to estimate because needs vary greatly based on a person's health status, age, and resources. The Household Survival Budget focuses on average health care spending but recognizes that this greatly underestimates the needs of many households. The health care estimate is made up of two separate components: 1) health insurance premiums, and 2) out-of-pocket costs, including copayments and medical services, prescription drugs, and medical supplies not covered by health insurance. According to a [Peterson Center/Kaiser Family Foundation study](#), low-income households are more likely to have someone in fair or poor health, which then adds 30% to 60% to family health care spending, even for people with employer-based coverage. To account for this, the Household Survival Budget includes a poor-health multiplier, a conservative 30% increase to out-of-pocket costs.

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**Health insurance premiums:** Employer-sponsored health insurance is still the most common form of coverage (57% of the population under 65 years old is covered under employer plans, compared to 26% through Medicaid and other government programs, and 7% through non-group plans such as the Affordable Care Act (ACA) Marketplace, leaving 10% uninsured). Employee contributions to employer-sponsored health care plans are used as reported at the state level by the Agency for Healthcare Research and Quality (AHRQ) from their annual Medical Expenditure Panel Survey (MEPS).

**Out-of-pocket costs:** The biggest variation in health care spending is by age; therefore, to estimate the out-of-pocket costs for each household, the Household Survival Budget uses average out-of-pocket costs for families headed by someone 35–54 years old, by income, as reported by the CEX. Because people with lower incomes often spend less because they have limited funds, the cost estimate is based on an annual household income of \$40,000–\$69,000.

**Options for Health Insurance Premiums:** Not all families obtain health insurance through their employer. In fact, many low-income jobs do not offer health-insurance. Households might instead purchase health insurance on the private market or obtain it through Medicaid eligibility.

- *Private health insurance:* The monthly cost of private health insurance is estimated using state-level Health Insurance Marketplace data provided by the Kaiser Family Foundation (KFF). KFF provides the average premium for the second-lowest-cost Silver Plan (benchmark plan) purchased for a 40-year-old on each state’s health insurance exchange. Premiums for other ages can be determined using either the age curve set by federal law or state-specific age curves which describe price discrimination by age permitted by the state using data from the Centers for Medicare & Medicaid Services (CMS). Also included are tax credits which reduce the cost of purchasing health insurance on the exchange for eligible Americans with income between 100% and 400% of the FPL. See the Federal Reserve Bank of Atlanta’s Policy Rules Database to determine the subsidized cost of private health insurance, after the tax-credit is taken into account.
- *Medicaid/CHIP:* Monthly premiums for Medicaid or CHIP enrollees are typically \$0. However, some states have premiums, and these premiums sometimes vary by income level and household composition. The annual cost of Medicaid/CHIP can be added to the budget by using the Federal Reserve Bank of Atlanta’s Policy Rules Database, which outlines Medicaid premiums by state, family composition, and income level using data from the Kaiser Family Foundation (KFF).

**Practical Application:** Health care is the budget item with the largest variation by household. Those who are healthy incur fewer costs, while households with a member with a serious health condition have significantly higher costs. In 2019 the 5% of people who spent the most on health care spent on average \$61,000 annually; people in the top 1% spent over \$130,000. Conversely, the 50% of the population with the lowest costs spent \$374 per year.

Recent surveys have also noted that the greatest growth in people who are underinsured (lacking adequate insurance coverage) is occurring among those with employer-sponsored health care.

Employees at private-sector businesses with more than 50% low-wage workers pay more for their health insurance than those at firms with less than 50% low-wage workers. This suggests that private sector low-wage workers pay a larger share of health insurance costs than higher-wage workers.

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## Health Care Data Sources

*Health Insurance Premiums:* Agency for Healthcare Research and Quality. (2021). Medical Expenditure Panel Survey (MEPS) Insurance Component (IC) [Premiums/Contributions/Enrollments tables]. U.S. Department of Health and Human Services. Retrieved from <https://datatools.ahrq.gov/meps-ic?type=tab&tab=mepsich3ps>

*Note:* 2007 data not available; average of 2006 and 2008 used instead

*Out-of-Pocket Costs:* Bureau of Labor Statistics. (2021). Consumer Expenditure Surveys: *Cross-tabulated Tables* [Table 3224; Table 3234]. Retrieved from <https://www.bls.gov/cex/tables/cross-tab/mean/reference-person-age-by-income-35-44-2021.pdf>; <https://www.bls.gov/cex/tables/cross-tab/mean/reference-person-age-by-income-45-54-2021.pdf>

- **Technology:** Smartphones have become an essential part of life for people of all ages and incomes, with 97% of Americans owning a cellphone of some kind and 85% owning a smartphone in 2021. This data does not vary greatly between urban and rural areas or across income brackets, and the only significant variation by age is for those 65 or older (who have lower rates of use). Because cellphones have become essential to work in the U.S., the cost of a smartphone plan is included in the Household Survival Budget for each adult. The cost is based on the cheapest available plan as reported by Consumer Reports. This cost does not include the added expense of the phone itself.

With COVID-19 lockdowns starting in the first quarter of 2020, broadband internet usage increased 47%. New and essential uses of the internet became widespread, including working from home, online learning, telemedicine, digital banking, and online social connection when in-person connection was not possible. Analysis of the U.S. Census Bureau's Household Pulse Survey in United For ALICE's 2021 Report, *The Pandemic Divide*, showed that households below the ALICE Threshold were more likely than those above to face technology barriers in securing employment and online learning.

Despite the increase in broadband usage, many ALICE households did not become connected. In early 2021, only 57% of adults in households with income below \$30,000 had a broadband connection; for adults in households with income between \$30,000 and \$50,000, the rate was 74%. Of those who are not connected, many live in rural counties where broadband access is not readily available. In October 2020, more than 900 counties in the U.S. reported fewer than 15% of households using a strong broadband signal (25 Mbps download). Other barriers to internet connectivity include high monthly subscription costs as well as the cost of equipment.

A common alternative for many low-income households is to use their smartphone for connection to the internet. In fact, one in four lower income families (27%) depended on their smartphones for internet access in 2021. Therefore, to reflect the increased need for internet access starting in 2020, the Household Survival Budget will expand the technology budget to upgrade the basic smartphone plan to a 10GB monthly data plan for each adult in the household.

**Practical Application:** Because low-cost smartphone plans have limited functionality and accessibility, ALICE workers who need higher performance have to pay more. While there are government subsidies for low-income residents, the income eligibility threshold is significantly less than the ALICE Threshold, so these subsidies are generally not available to ALICE households.

In 2021, the lowest-cost cell phone plan according to Consumer Reports was a 4GB monthly plan at \$60. The upgrade to the larger data allowance, 10GB, was an additional \$15 per month. At-home broadband would offer ALICE households a much more comfortable option to connect to the internet. According to USTelecom, in 2021, the average most-popular internet connection was \$48 per month. However, the Household Survival Budget reflects bare minimum costs, which do not include at-home broadband. The Pew Research Center found that in 2019, the most important reason respondents did not have broadband was cost (27%); respondents also cited "Other options for internet outside of home" (11%) or "Service not available or sufficient" (7%).

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An alternative to purchasing the larger smartphone plan is to access free Wi-Fi services available in the community. Yet as we saw during the pandemic, free Wi-Fi services are not always easily available, and don't offer reliable speed or workspace. For example, some [public libraries](#) that provide internet access for many students and adults were closed to visitors during the pandemic, and [commercial sites](#) like McDonald's parking lots do not always have strong signals and were never designed to be online workspaces.

In addition, as the pandemic has highlighted, there are many [limitations to using only a cellular phone](#) for working and learning remotely or connecting to necessary services such as job searches and telehealth. For more details, see United For ALICE's 2021 Report, [The Pandemic Divide](#), and 2019 Report, [The Consequences of Insufficient Household Income](#).

### Technology Data Source

*Smartphone Plan Cost*: Fowler, B. (2021, July 14). Best low-cost cell phone plans. *Consumer Reports* (2021 prices). Retrieved from <https://www.consumerreports.org/cell-phone-service-providers/best-low-cost-cell-phone-plans-a8977819742/>

- **Miscellaneous:** The Miscellaneous category includes 10% of the budget total (excluding taxes) as a provision for unforeseen cost increases in these budget items.

**Practical Application:** This category provides some recognition of the conservative nature of the budget. Including a miscellaneous expense category has been [standard practice](#) in estimating basic household expenses. It is important to note that this category is used to cover cost overruns on basic budget items, with few or no funds ever left over for dinner at a restaurant, tickets to the movies, or travel, let alone a financial indulgence such as holiday gifts or a new television – expenses that many financially secure households take for granted. It also does not allow for any savings, leaving a family vulnerable to any unexpected expense, such as a costly car repair, natural disaster, or health issue.

- **Taxes:** Taxes are calculated by assuming income is the same as total expenses, except for taxes. The tax budget includes federal and [state income taxes](#), payroll taxes, and federal and state tax credits. State sales taxes are not included in the taxes section but are included in the calculations of expenditures on food and miscellaneous expenses. Real estate taxes are not included because they are included instead in the cost of rental housing. Income taxes are calculated using the Federal Reserve Bank of Atlanta's [Policy Rules Database](#).
  - Federal and state tax credits include the federal and state Child Tax Credit (CTC) and the federal and state Child and Dependent Care Tax Credit (CDCTC) as defined in the Internal Revenue Service *1040: Individual Income Tax, Forms and Instructions*. The Earned Income Tax Credit is not relevant for ALICE households (see practical application below).
  - Payroll taxes – also known as Federal Insurance Contributions Act (FICA) taxes – cover the employee's contribution required to fund Social Security and Medicare.

**Practical Application:** Taxes are a legal requirement of earning income in the U.S., even for low-income households. The Earned Income Tax Credit (EITC), a benefit for working individuals with low to moderate incomes, is not included in the tax calculation because the [eligibility cut-off](#) is well below the Household Survival Budget and the credit is not available to most households without children. However, the [EITC helps a large number of families](#) living near or below the FPL: [In 2021](#), 25 million workers and families received, on average, \$2,411.

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While the federal income tax system is progressive, in every state in the U.S., at least some low- or middle-income groups pay a higher share of their income in state and local taxes than wealthy families, especially in states where there is a sales tax.

### Tax Data Sources

*Federal Income Taxes:* Internal Revenue Service. (2021, December 21). *1040 and 1040-SR: Instructions*. Retrieved from <https://www.irs.gov/pub/irs-pdf/i1040gi.pdf>

*State Income Taxes:* Vermeer, T., & Loughead, K. (2022, February 15). *State individual income tax rates and brackets for 2022*. Tax Foundation. Retrieved from <https://taxfoundation.org/publications/state-individual-income-tax-rates-and-brackets/>

*Federal Insurance Contributions Act (FICA) taxes:* Internal Revenue Service. (2020, January 3). Topic no. 751 Social Security and Medicare withholding rates. Retrieved from <https://www.irs.gov/taxtopics/tc751>

## The ALICE Senior Survival Budget

As people age, their household needs change. With more data available by age, the Household Survival Budget includes a budget for those 65 years and older. The Senior Survival Budget reflects the fact that seniors typically spend less on food than younger and family households, travel fewer miles for work and family responsibilities, and have increasing health needs, though these additional health care expenses are often offset through Medicare. Social Security provides a valuable safety net ensuring that most seniors stay out of poverty, but it is not enough to afford even the basic Survival Budget costs faced by most seniors.

- **Housing, Technology, and Taxes:** Housing, technology, and tax budget calculations are the same as in the under-65 Household Survival Budget.
- **Food and Transportation:** The food and transportation budget items use the same sources as the under-65 Household Survival Budget but reflect more specific costs by age (65+).
- **Health Care:** The health care costs reflect two important differences for older Americans: the universal provision of Medicare, and increasing health care needs. The Senior Survival Budget uses the cost for Medicare Part A and B: It assumes that when seniors turn 65, they are enrolled in Medicare Part A, which is free, and elect to purchase Part B. While Part B is not required, most seniors enroll because the cost for the premium is significantly less than the out-of-pocket costs for those with only Part A. The Senior Survival Budget therefore includes average out-of-pocket costs, such as copayments, coinsurance, and deductibles for seniors with Medicare Part B. Out-of-pocket costs also include prescription drugs.

Because 85% of older adults have at least one chronic disease and over 60% have at least two, the Senior Survival Budget assumes that each senior has one chronic condition. The costs for seniors with two or more conditions are significantly higher than the costs included in this budget, and because poor health is significantly correlated with low income, this is likely the case for a disproportionate number of ALICE households. The Senior Survival Budget uses the average cost of the top five chronic diseases: hypertension, arthritis, heart disease, cancer, and diabetes. The budget assumes the out-of-pocket portion of chronic disease cost is the same as the average percentage of all health care costs paid out-of-pocket as reported annually in the Medicare Current Beneficiary Survey; in 2019 (the latest year available), it was 17.6%. Cost for chronic disease is reported at the county level, allowing the Senior Survival Budget to reflect important local variation.



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Data from CMS' Chronic Conditions Data Warehouse is only available from 2008 to 2018, and there is a three-year lag in data with the budget year (i.e., the 2021 Household Survival Budget uses 2018 CMS data). Data prior to 2008 were deflated using the non-seasonally adjusted [CPI-All Urban Consumers](#) for all items.

Seniors may face additional costs depending on their disability status. [One-third of seniors have a disability](#) related to hearing, vision, cognitive ability, ambulation, self-care, or independent living. These add to basic needs, ranging from assistive devices and special transport to personal assistance and housing adaptation, and can [add 30% to the cost of daily living](#).

**Practical Applications:** Out-of-pocket costs for prescription drugs are included in the budget because 89% of people 65 and older take one or more medications daily. Yet seniors often skimp or forgo prescriptions altogether; 21% of seniors do not take their prescriptions [due to cost](#).

#### Health Care Data Sources (Senior Survival Budget)

*Medicare Premiums:* Medicare.gov. (n.d). *Part B costs*. U.S. Centers for Medicare & Medicaid Services. Retrieved from <https://www.medicare.gov/your-medicare-costs/part-b-costs>

*Average Out of Pocket Costs:* Centers for Medicare & Medicaid Services. (2022, August 31). CMS program statistics – Medicare part A & part B – All types of services [MDCR Summary AB 2]. Retrieved from <https://data.cms.gov/summary-statistics-on-use-and-payments/medicare-service-type-reports/cms-program-statistics-medicare-part-a-part-b-all-types-of-service>

*Note:* Data is only available up to 2020, therefore there is a lag of one year; for example, 2021 ALICE data uses the 2020 data

*Additional Chronic Disease Costs:* Centers for Medicare & Medicaid Services. (2021, January 15). Chronic Conditions [Spending County Level: All Beneficiaries, 2007-2018]. Retrieved from [https://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/Chronic-Conditions/CC\\_Main.html](https://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/Chronic-Conditions/CC_Main.html)

Chronic disease average percent out-of-pocket costs at 17.6% from Centers for Medicare & Medicaid Services. (2019). *2019 Medicare Current Beneficiary Survey annual chartbook and slides* [Table 5.1.a - Total Health Care Service Expenditures Among All Medicare Beneficiaries by Source of Payment, 2019]. Retrieved from <https://www.cms.gov/research-statistics-data-and-systems/researchmcbdata-tables/2019-medicare-current-beneficiary-survey-annual-chartbook-and-slides>

## Survival vs. Stability: Comparison of Household Budgets

The objective of the ALICE Household Survival Budget and ALICE Senior Survival Budget is to calculate the bare-minimum amount needed to live and work in the modern economy, while the ALICE Household Stability Budget and ALICE Senior Stability Budget aim to show what is needed to support and sustain a secure and economically viable household. Figure 1 compares the components of the Survival and Stability Budgets, as detailed in the previous sections.

**Figure 1.**  
**Summary of Sources Used in ALICE Household Budgets**

Budget Category	Household Survival Budget	Household Stability Budget
<b>Housing – Rent/Mortgage</b>	HUD’s FMR (40 <sup>th</sup> percentile) for an efficiency, one-bedroom, or two-bedroom apartment (based on family size), adjusted in metropolitan areas using the American Community Survey (minus utilities)	HUD’s median rent for single adults and single parents, and a moderate house with a mortgage for a two-parent family, as reported by the American Community Survey (minus utilities)
<b>Housing – Utilities</b>	The annual cost of utilities which include natural gas, electricity, fuel oil and other fuels, and water and other public services from the Consumer Expenditure Surveys	The annual cost of utilities which include natural gas, electricity, fuel oil and other fuels, and water and other public services from the Consumer Expenditure Surveys
<b>Child Care</b>	Registered Family Child Care Homes for an infant and a preschooler (using state-specific sources)	Licensed and accredited child care center for an infant and a preschooler (using state-specific sources)
<b>Food</b>	USDA’s Thrifty Food Plan by age with county variation from Feeding America	USDA’s Moderate Food Plan by age plus average cost of food away from home as reported by the CEX
<b>Transportation</b>	Operating costs for a small or medium sedan (based on average daily miles by age, cost per mile, license, fees, and insurance costs from Federal Highway Administration, AAA, and The Zebra), or public transportation where viable as reported by the CEX	Operating costs for a small or medium SUV (based on average daily miles by age, cost per mile, license, fees, and insurance costs from Federal Highway Administration, AAA, and The Zebra), or public transportation where viable as reported by the CEX and a small or medium sedan for two days a week
<b>Health Care</b>	Health insurance premiums based on employer-sponsored health insurance as reported by MEPS plus out-of-pocket costs for \$40K–\$69K households by age CEX weighted with poor health multiplier. For senior budget, cost of Medicare Part A & B, out-of-pocket costs, plus out-of-pocket average spending for the top five chronic diseases as reported by CMS	Health insurance premiums based on employer-sponsored health insurance as reported by MEPS plus out-of-pocket costs for \$70K+ households by age from the CEX.
<b>Technology</b>	Consumer Report’s smartphone plan for 10GB of data for each adult in a household	Consumer Report’s smartphone plan for 10GB of data for each adult in a household and basic home internet service reported by Telogical Systems
<b>Taxes</b>	Federal and state taxes and tax credits computed by the Atlanta Federal Reserve’s Policy Rules Database	Federal and state taxes and tax credits computed by the Atlanta Federal Reserve’s Policy Rules Database
<b>Savings</b>	None	To ensure stability over time, monthly savings set at 10% of budget
<b>Miscellaneous</b>	Cost overruns, estimated at 10% of budget excluding taxes	Cost overruns, estimated at 10% of budget excluding taxes

## The ALICE Household Stability Budget

The Household Stability Budget represents a more financially stable, less austere standard of living compared to the Household Survival Budget. The Household Stability Budget is comprised of the actual cost of household essentials for stability plus a 10% savings allocation and a 10% contingency allocation, as well as relevant taxes. The data builds on the sources from the Household Survival Budget; differences are outlined below.

- **Housing:** The housing budget is composed of rent or mortgage and utilities.

**Rent/mortgage:** Rent or mortgage for a single adult is based on HUD’s median rent for a one-bedroom apartment (rather than the efficiency apartment used in the Survival Budget) at the FMR of 50<sup>th</sup> percentile. For one adult with one child, the budget is based on a two-bedroom apartment at the median rent (instead of a one-bedroom). Housing for a family of four is based on the American Community Survey’s median monthly

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owner costs for those with a mortgage (instead of rent for a two-bedroom or larger apartment used in the Survival Budget). Real estate taxes are included here for households with a mortgage. Adjustments are made for variation within a metropolitan area through the American Community Survey's 5-year estimates of Median Gross Rent, as discussed in the Household Survival Budget.

**Utilities:** The annual cost of utilities is based on the CEX's estimate of natural gas, electricity, fuel oil and other fuels, and water and other public services. The cost is adjusted by the number of people in the household.

- **Child Care:** The child care budget is based on the cost of a fully licensed and accredited child care center using the same source as the Household Survival Budget – the cost reported by each state's governmental department in charge of child care regulations. These costs are typically more than 30% higher than the cost of registered home-based child care used in the Survival Budget.
- **Food:** The food budget is based on the USDA's Moderate Level Food Plan for cost of food at home (the second of four levels), adjusted for county variation using the Feeding America Cost-of-Food Index, plus the average cost of food away from home as reported by the CEX by metropolitan statistical areas and national regions.
- **Transportation:** The sources used for transportation in the Stability Budget are the same as those used in the Survival Budget (i.e., CEX for public transportation and the Federal Highway Administration and AAA for car-related expenses); however, the budget allocations differ slightly. Where public transportation is deemed a viable option (see Survival Budget for definition), transportation expenses include public transportation plus gas and running costs for one small sedan (including 50/100/50 liability + comp-collision insurance with a \$500 deductible, more coverage than in the Survival Budget), though the size of the car increases from a small sedan to a medium sedan when more than two people live in the household.

Because these households have both access to public transportation and a car, it is assumed that they have increased expenses compared to households that only rely on public transportation (as reflected in the Survival Budget), but also drive fewer miles than households that only have a car and no access to public transportation. The calculation is the sum of household members' average daily miles of travel per person by age, times the cost per mile by car type times 104 days (52 weeks, 2 days/week), plus license and fees by type of car, plus depreciation (assuming a 10-year-old car), plus 50/100/50 liability + comp-collision with \$500 deductible insurance by state.

$$[(\text{Average daily miles} * \text{cost per mile}) * 104] + \text{license and fees} + \text{depreciation} + \text{insurance}$$

**Where there is no viable public transportation, the formula is:**

$$[(\text{Average daily miles} * \text{cost per mile}) * 300] + \text{license and fees} + \text{depreciation} + \text{insurance} + \text{vehicle outlay}$$

And car allocations by household composition are as follows:

- One- and two-person households: small SUV
- Three or more person households: medium SUV
- **Health Care:** Health care costs are similar to those in the Survival Budget and are derived from the same sources. Health insurance premiums are based on employer-sponsored health insurance at private-sector establishments as reported by the AHRQ in the MEPS. For out-of-pocket health care spending, the Stability Budget uses spending

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for households headed by someone 45–54 years old with annual income above \$70,000, as reported by the CEX. (This is a higher income bracket than that used in the Survival Budget.)

Income is closely related to health, and in general, people with higher incomes are healthier and use fewer health services. Therefore, the Stability Budget assumes all family members are in good health. To reflect this, the 30% multiplier for health care spending included in the Survival Budget is not included in the Stability Budget. In some cases, this can result in lower health care costs for the Stability Budget compared to the Survival Budget.

- **Technology:** Most jobs now require access to the internet and a smartphone. These are necessary to receive work schedules, changes in start time or location, access to work support services, and customer follow-up. The Stability Budget includes the cost of a smartphone plan for each adult in the family and basic broadband access in the house.

#### Technology Data Sources (Stability Budget)

*Smartphone Plan Cost:* Fowler, B. (2021, July 14). Best low-cost cell phone plans. *Consumer Reports* (2021 prices). Retrieved from <https://www.consumerreports.org/cell-phone-service-providers/best-low-cost-cell-phone-plans-a8977819742/>

*Home Internet Cost:* Telogical Systems. (2022). *High speed internet* [Unpublished raw data].

- **Miscellaneous and Savings:** As in the Household Survival Budget, there is a miscellaneous category as a provision for unforeseen cost increases in these budget items. In addition, there is a savings category. They are each 10% of the budget total (not including taxes).
- **Taxes:** Taxes are calculated in the same manner as in the Household Survival Budget. Because the size of credits and exemptions does not increase with income while tax rates do, the tax line item is much larger in the Stability Budget than in the Survival Budget. Real estate taxes are added to the cost of homeownership for the family budget and included in the cost of rental housing for all others.

## METHODOLOGY: THE ALICE THRESHOLD

In addition to understanding the basic cost of living, it is important to know the number and proportion of households not able to afford that cost of living, as well as their demographic features and geographic distribution. Therefore, there is an ALICE Threshold for each county in the U.S. Calculations differ for tabulated and untabulated data sets.

### Threshold for Tabulated Data (American Community Survey)

When using the American Community Survey, the ALICE Threshold is based on the Household Survival Budget for different age groups and adjusted for household size and costs at the county level. Because the American Community Survey presents income in ranges, the Threshold is rounded to the nearest income category. The details are outlined below:

**Two Thresholds:** Because there are significant differences among households by age, there are two separate ALICE Thresholds. In addition to the differences in the cost of basic needs by age, household sizes differ by age as well. For households headed by someone under 65 years old, the median household size across the U.S. is three, while the median household size across the U.S. for a household headed by someone 65 and older is two.

- **Threshold for Under 65:** The Threshold for households headed by someone under 65 years is calculated for each county based on the average household size.

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The average household size for households headed by someone under 65 is calculated as the number of households headed by someone under 65 divided by the total population under 65. To ensure that results reflect local conditions as closely as possible, averages are calculated at the county level. Results are compared to American Community Survey average family size calculations to ensure reliability where there is a wide discrepancy (defined as the American Community Survey's average household size +/- 1 full person).

The cost per person is calculated from the budget closest to the household size, per below. Then the per-person cost is multiplied by the average household size for the county.

**HH = 2 or less:** Household Survival Budget one adult \* average HH size under-65; if the result is greater than the cost of the Household Survival Budget for two adults, then the cost of the Household Survival Budget for two adults is used

**HH = between 2 and 2.5:** Household Survival Budget two adults / 2 \* average HH size under-65

**HH = between 2.5 and 3.5:** Household Survival Budget two adults and one school-age child / 3 \* average HH size under-65

**HH = 3.5 or more:** Household Survival Budget two adults, one child in child care (preschool), and one school-age child / 4 \* average HH size under-65

- **Threshold for 65 and Over:** The Threshold for households headed by someone over 65 years old is calculated for each county based on the average household size. The average household size for households headed by someone 65 and older is calculated as the number of households headed by someone 65 and older divided by the total population 65 and older.

Recognizing that a household headed by someone 65 years and older has different costs than younger households, the Threshold for senior households is based on the Senior Survival Budget for one and two adults, the most common senior household sizes. The cost per person is calculated from the budget closest to the household size.

Senior Survival Budget Adult \* average HH size 65+

If the result is greater than the cost of the Senior Survival Budget for two adults, then the cost of the Household Survival Budget for two seniors is used.

**Household Income:** The average budgets are rounded to the tabulated American Community Survey estimates for household income in the following categories: \$30,000, \$35,000, \$40,000, \$45,000, \$50,000, \$60,000, \$75,000, or \$100,000.

**Number of Households in Poverty:** Households in Poverty are reported by the Census Bureau, which uses the [Poverty Thresholds](#). (Note: In the ALICE Reports, we often reference the U.S. Department of Health and Human Services' [Poverty Guidelines](#) when referencing the FPL because these simplified values are used for program administration and are most familiar/relevant for our many partners.)

**Number of ALICE Households:** The number of ALICE households is derived by subtracting the number of households in poverty from the total below the ALICE Threshold. Poverty numbers are provided by the American Community Survey for most demographic groups. Because the American Community Survey does not provide poverty estimates by race/ethnicity, the income category of less than \$15,000 per year is used as a proxy, since income figures are broken down by those characteristics.

**Rounding:** To correct for rounding, the percentage of households deemed "Above the ALICE Threshold" may be adjusted so that the sum of the three income categories (Poverty, ALICE, Above the ALICE Threshold) equals 100%.

## Income Data Sources

American Community Survey. (2007-2021). 1-Year and 5-Year Estimates. U.S. Census Bureau. Retrieved from <https://data.census.gov/cedsci/>

Table DP05: American Community Survey Demographic and Housing Estimates

Table B17010: Poverty Status in past 12 months of Families by Family Type by Presence of Related Children under 18 years of Age

Table B17017: Poverty Status in past 12 months by Household Type by Age of Householder

Table B19131: Family type by Presence of Own Children under 18 years by Family in the past 12 months

Table B19037: Age of Householder by Income in last 12 months

Table S2501: Occupancy Characteristics

## Threshold for Untabulated Data

For the analysis of surveys where the raw data is available, there is a second method for the ALICE Threshold. This is used for surveys such as the University of Southern California Center for Economic and Social Research's Understanding Coronavirus in America tracking survey, the Federal Reserve's Survey of Household Economics and Decisionmaking (SHED), and the Census' PUMS and Household Pulse Surveys.

To determine a respondent's ALICE status, three variables are necessary: household income, county of residence, and household composition. Income is then compared to the Household Survival Budget for that household combination in that county. A new variable is added to the respondent's record: Above or Below the ALICE Threshold.

Because many surveys rely on ZIP code rather than county as geographic identifier, we use a ZIP code-to-county matchup. When a ZIP code is in more than one county, it is affiliated to the county with the largest overlap. For surveys that report respondents at the state level, such as SHED and Household Pulse Surveys, the Household Survival Budget is calculated at the state level using a weighted average by county population.

All other parameters that define ALICE should be maintained – for example, including all households. Those who are working or have a health issue or a family member with a disability cannot be excluded.

## APPLYING THE THRESHOLD: COMPARISONS

The numbers and demographics of households experiencing financial hardship differ depending on which population is included in the analysis. ALICE analyses include all households unless otherwise noted. Other measures, such as the Self-Sufficiency Standard and the Real Cost Measure, do not include adults with disabilities (39 million adults) or elderly household members who no longer work (46 million seniors). As such, their analyses report fewer households that are struggling. The groups excluded are disproportionately below ALICE Threshold: non-senior disabled (53%) and senior disabled (56%).

**Practical Applications:** This approach enables access to datasets far beyond the American Community Survey. Care should be taken to understand the quality of the data and the sample size per breakout group – age, geography, race/ethnicity, etc. It is important to qualify whether the survey is a representative sample (and at what level of geography) or if it is a convenience survey, and if so, what bias it might represent.

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## METHODOLOGY: THE ALICE ESSENTIALS INDEX

The ALICE Essentials Index provides a national standardized measure of the average change over time in the costs of household essentials – a much narrower definition than the more commonly used rate of inflation based on the BLS’ CPI. The Index includes only essential household items (those found in the Household Survival Budget – housing, child care, food, transportation, health care, and a smartphone plan), calculated for both urban and rural areas. In contrast, the most commonly used national inflation rate is based on the CPI, which covers all the goods and services that the general population buys regularly (food and beverages, housing, apparel, transportation, medical care, recreation, education, and communication services). Both indices include taxes where included in the price of the item, such as real estate tax included in rent, but not income or work taxes. With such a broad basket of items, the CPI obscures the change in cost of the bare essentials that ALICE buys. The ALICE Essentials Index can be used as a companion to the CPI to highlight how changes in the economy affect low-income families differently than they affect the general population.

The Index tracks the core costs of the three most common household compositions as reported in the Household Survival Budget:

- **Two adults:** Housing in a one-bedroom apartment, food, transportation, health care, and two smartphone plans
- **Family of four with two children in pre-K:** Housing in a two-bedroom apartment, one infant and one 4-year-old in registered Family Child Care Homes, food, transportation, health care, and two smartphone plans
- **Single senior:** Housing in an efficiency apartment, food, transportation, health care, and one smartphone plan

The ALICE Essentials Index tracks prices in urban and rural counties, compared to the CPI, which just tracks prices for all urban consumers in Metropolitan Statistical Areas. Counties are separated by U.S. Census designation for urban and rural, and each county is weighted according to its total household population.

Starting in 2023, the ALICE Essentials Index will be calculated for each state and at the national level on an annual basis. Because current inflation is a critical measure of the economy, the Index will also include an estimate for the most current year that data is available; likely this will be ahead of the full calculation that can be provided for the Household Survival Budget. As an estimate, it will be revised when final data sources are confirmed.

For more detailed methodology and sources, see [UnitedForALICE.org/Essentials-Index](https://UnitedForALICE.org/Essentials-Index)

## METHODOLOGY: THE ALICE INCOME ASSESSMENT

The ALICE Income Assessment looks at the impact of public and nonprofit resources on the needs of households below the ALICE Threshold. This tool measures the “Unfilled Gap” between the total amount that households below the ALICE Threshold receive in income and assistance and the total amount these households still need to reach the ALICE Threshold. It is the basis for several ALICE tools including the Economic Benefits of Equity analysis (see below). The basic methodology will also prove useful as a guide to analyze the impact of the American Rescue Plan Act of 2021 and other large federal spending initiatives on households below the ALICE Threshold.

**ALICE Household Income:** The total income households below the ALICE Threshold currently receive includes wages, dividends, cash government assistance, Social Security, and in-kind public assistance. These totals are reported in the tabulated American Community Survey estimates by income bracket. The Income Assessment uses the aggregate amount, calculated using the midpoint of each income bracket multiplied by the number of households in each bracket below the Threshold.

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The aggregate income that all households would need to reach the ALICE Threshold is calculated by multiplying the number of households with income below the ALICE Threshold in each county by the Threshold value, and then adding the county totals to reach the state total.

**Public and Nonprofit Resources:** Public assistance used in this analysis includes only programs for low-income households that directly help them meet the basic Household Survival Budget, such as TANF and Medicaid. It does not include programs that assist low-income households in broader ways (such as to attend college) or that assist communities (such as community policing). The analysis is only of funds spent, not an evaluation of the programs or their efficacy in meeting household needs. The ALICE Income Assessment includes the following categories:

**Federal Assistance (excluding Health Care):**

- **Social Services:** Temporary Assistance for Needy Families (TANF), Supplemental Security Income (SSI), and Social Services Block Grant (SSBG)
- **Child Care and Education:** Only programs that help children meet their basic needs or that are necessary to enable their parents to work are included. They are Head Start, Title I educational services, and the Child Care and Development Fund Block Grant. Though post-secondary education is vital to future economic success, it is not a component of the basic Household Survival Budget, so programs such as Pell grants are not included.
- **Food:** Supplemental Nutrition Assistance Program (SNAP), School Lunch Program, School Breakfast Program, Child and Adult Care Food Program (CACFP), and Special Supplemental Nutrition Program for Women, Infants, and Children (WIC)
- **Housing:** HUD Housing Choice Vouchers, Low Income Home Energy Assistance Program (LIHEAP), Public Housing Operating Funds, and Community Development Block Grant (CDBG)
- **Taxes:** Earned Income Tax Credit

**Health Care Assistance:**

- **Medicaid:** Provides money to states, which states must match, to offer health insurance for low-income residents as well as some families and children, pregnant women, seniors, and people with disabilities. Also known as the Medical Assistance Program.
- **Children's Health Insurance Program (CHIP):** Provides funds to states to enable them to maintain and expand child health assistance to uninsured, low-income children and, at a state's discretion, to low-income pregnant women and documented immigrants.
- **Community Health Benefits:** Spending by hospitals on low-income patients that includes charity care and means-tested expenses, including Unreimbursed Medicaid minus direct offsetting revenue as reported on Form 990 by a 501(c)(3) organization.

**State and Local Government Assistance:** This figure includes funds from state and local government (not pass-throughs from the federal government) in the areas of health, social services, cash assistance, and workforce development.

**Nonprofit Assistance:** This figure includes spending by nonprofit organizations identified as Human Services organizations. Human Services nonprofit programs are those under section 501(c)(3) reported on Form 990EZ and 990 minus program service revenue, dues, and government grants as reported to the Internal Revenue Service. Because of a lag in data from the Urban Institute's National Center for Charitable Statistics (NCCS), 2012 state-level expenditures are adjusted upward using national estimates of growth in nonprofit spending.



**The “Unfilled Gap”:** The gap is the remainder after current need and assistance are subtracted from total need:

$$\begin{array}{r} \text{Total aggregate household income to ALICE Threshold} \\ - \text{Current aggregate household income} \\ - \text{Public assistance} \\ \hline = \text{Unfilled Gap} \end{array}$$

### Income Assessment Data Sources

*Community Health Benefits:* McKeever, B. S. (2018, December 13). *The nonprofit sector in brief 2018*. Urban Institute, National Center for Charitable Statistics. Retrieved from <https://nccs.urban.org/publication/nonprofit-sector-brief-2018#finances>

*Earned income Tax Credit:* Internal Revenue Service. (2019, October 2). *Statistics for 2018 tax returns with EITC*. Retrieved from <https://www.eitc.irs.gov/eitc-central/statistics-for-tax-returns-with-eitc/statistics-for-tax-returns-with-the-earned-income#Previous%20Tax%20Years>

*Federal Spending Data:* U.S. Office of Management and Budget. (2017). Aid to State & Local Governments. In *Analytical perspectives: Budget of the U.S. Government: Fiscal year 2018* (pp. 171-184). Retrieved from <https://www.gpo.gov/fdsys/pkg/BUDGET-2018-PER/pdf/BUDGET-2018-PER.pdf>

*Nonprofit Assistance:* McKeever, B. S. (2018, December 13). *The nonprofit sector in brief 2018*. Urban Institute, National Center for Charitable Statistics. Retrieved from <https://nccs.urban.org/publication/nonprofit-sector-brief-2018#finances>

*State and Local Government Spending Data:* National Association of State Budget Officers. (2019). *State expenditure report: Fiscal years 2017-2019*. Retrieved from <http://www.nasbo.org/mainsite/reports-data/state-expenditure-report>

*Supplemental Nutrition Assistance Program (SNAP) Data:* U.S. Department of Agriculture (USDA). (n.d.). SNAP data tables [State level participation and benefits]. Retrieved from <http://www.fns.usda.gov/pd/supplemental-nutrition-assistance-program-snap>

*Supplemental Security Income:* American Community Survey. (2018). *1-year and 5-year estimates* [Table B19066: Aggregate Supplemental Security Income (SSI) in the past 12 months (in 2017 inflation-adjusted dollars) for households]. U.S. Census Bureau. Retrieved from <https://data.census.gov/cedsci/>

## METHODOLOGY: ECONOMIC BENEFITS OF EQUITY

To better understand the extent to which financial hardship is a drain on a state’s economy, the Economic Benefits of Equity builds on the [work of Ani Turner](#) and others to quantify the benefits of raising the income of all households to the ALICE Threshold. This analysis includes additional earnings; additional taxes paid on higher incomes, and reduced usage of tax credits such as EITC for low-income earners; savings on government programs that alleviate poverty, such as SNAP and TANF; and the multiplier effect of each category on the [state economy](#). Lifting family income would be an enormous undertaking; this exercise shows the statewide benefits, in order to make a compelling case for moving both policy and investment toward that goal.

- **Additional Earnings:** Using the methodology from the Income Assessment, the current and additional aggregate income estimates are calculated from the American Community Survey tables on household income and the ALICE Threshold for each county in the state. The aggregate additional income has added impact because additional wages earned by low-wage workers are [put back into the economy](#).

Increased consumer spending is estimated using the [macroeconomic multiplier](#) calculated by Moody’s Analytics Chief Economist Mark Zandi and methods used by the Economic Policy Institute. Zandi estimated that every additional dollar in compensation for low-wage workers produces a [\\$1.20 increase](#) in economic activity.

- **Additional Tax Revenue:** In parallel to the methodology for additional income, tax revenue is calculated by multiplying the median value of each income bracket below the ALICE Threshold by their associated tax rate, then multiplying by the number of households in that tax bracket in each county. To determine the aggregate amount, do the same for all income brackets. Finally, for the statewide number, add the county totals to reach the state total.

Additional tax revenue gives state and local governments the opportunity to make investments that matter most to the well-being of residents and businesses – from tax cuts for small businesses to improvements in infrastructure, health care, and education – and that can yield a high return on investment. The Congressional Budget Office reports that the impact of tax cuts is greater when targeted at lower- and middle-income people and achieved without borrowing, and it can be a multiplier as high as 1.5. To be conservative, this analysis uses Zandi’s estimate for the multiplier for increased infrastructure spending of 1.44.

- **Redirected Community Spending and Indirect Benefits:** The current and additional aggregate assistance estimates are the same government programs and spending by hospitals on low-income patients. The Economic Benefits of Equity analysis reports only the indirect benefits of increasing financial stability for households below the ALICE Threshold, and does not include the direct impact of redeploying private and nonprofit spending currently used to alleviate poverty.

Increased financial stability is also associated with indirect benefits such as improved health (and reduced health care expenditures), reduced crime and homelessness, and greater community engagement. The National Academies of Sciences, Engineering, and Medicine analyzes the cost of childhood poverty and estimates that reversing it would add 5.4% to each state GDP. To be conservative, this analysis uses Holzer’s estimate that childhood poverty costs 2.5% of GDP in related health and criminal justice expenses.

### Economic Benefits of Equity Data Sources

Internal Revenue Service. (n.d.). 1040 and 1040-SR: Instructions. Retrieved from <https://www.irs.gov/pub/irs-pdf/i1040qi.pdf>

Internal Revenue Service. (n.d.). *Statistics for 2018 tax returns with EITC*. Retrieved from <https://www.eitc.irs.gov/eitc-central/statistics-for-tax-returns-with-eitc/statistics-for-tax-returns-with-the-earned-income#Previous%20Tax%20Years>

Internal Revenue Service. (2020, January 3). Topic no. 751 Social Security and Medicare withholding rates. Retrieved from <https://www.irs.gov/taxtopics/tc751>

McKeever, B. S. (2018, December 13). *The nonprofit sector in brief 2018*. Urban Institute, National Center for Charitable Statistics. Retrieved from <https://nccs.urban.org/publication/nonprofit-sector-brief-2018#finances>

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Office of Management and Budget. (2017). *Analytical perspectives: Budget of the U.S. government: Fiscal year 2018*. Retrieved from <https://www.gpo.gov/fdsys/pkg/BUDGET-2018-PER/pdf/BUDGET-2018-PER.pdf>

Scarboro, M. (2018, March). *State individual income tax rates and brackets for 2018*. Tax Foundation. Retrieved from <https://files.taxfoundation.org/20180315173118/Tax-Foundation-FF576-1.pdf>

U.S. Department of Agriculture (USDA). (n.d.). SNAP data tables [*State level participation and benefits*]. Retrieved from <http://www.fns.usda.gov/pd/supplemental-nutrition-assistance-program-snap>

Walczak, J. (2019, July). *Local income taxes in 2019*. Tax Foundation. Retrieved from <https://files.taxfoundation.org/20190730170302/Local-Income-Taxes-in-20191.pdf>

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## ADDITIONAL CONSIDERATIONS

Below are additional factors that should be considered when using ALICE measures and tools:

- The American Community Survey – which is a primary source used in the calculation of the ALICE measures – relies on self-reported income, and therefore may be reported incorrectly for a variety of reasons. Respondents may also only report income from what they consider their primary occupation and not include other forms of income from more informal sources such as gig economy work.
- The ALICE measures provide a point-in-time estimate of expenses and financial need. They do not reflect the fact that for many households, income fluctuates throughout the year, and households may draw on savings or other assets when income is not sufficient to meet basic needs. These measures also do not distinguish between permanent and transitory income; students, for example, may have low transitory incomes while they are in school, but may have higher incomes after securing permanent employment.
- To ensure accuracy and confidentiality in ALICE maps, tables, and figures, county-level breakout groups (e.g., by age, race/ethnicity, and family status) with fewer than 100 households are not presented. At the sub-county level, geographies (e.g., ZIP code, place, and congressional district) with fewer than 100 households are not displayed.
- All racial categories used in the ALICE data except "Two or More Races" are for one race alone. Race and ethnicity are overlapping categories; the Asian, Black, American Indian/Alaska Native, Native Hawaiian/ Pacific Islander, and Two or More Races groups may include Hispanic households. The White group includes only White, non-Hispanic households. The Hispanic group may include households of any race. Because household poverty data is not available for the American Community Survey's race/ethnicity categories, annual income below \$15,000 is used as a proxy.

## FOR MORE INFORMATION

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