

When we CARE about older adults, we all benefit

Ensuring Equitable Service Delivery:

A Primer for Mathphobes and Data Nerds, Too!

Tammy Mermelstein, JD, MSW, Executive Director Collaboratory for Aging Resources and Education Aging in Texas Conference 2022





The Obligatory

Participants will:

- Learn about how to quantify higher at-risk communities
- Use hypothetical data to explore how they can measure whether they are providing services equitably or create a plan to address growth opportunities
- Leave with ideas about how to increase equitable service delivery



There are no disclosures for this presentation.









Source: Beilock, S. (Oct. 23, 2019). Americans need to get over their fear of math. Harvard Business Review, https://hbr.org/2019/10/americans-need-to-get-over-their-fear-of-math.



Why is data important in our field?

Data is Critically Important

- Funding
- Central to our roles as storytellers and advocates
- Manage scarce resources
- Numbers/visualization are powerful

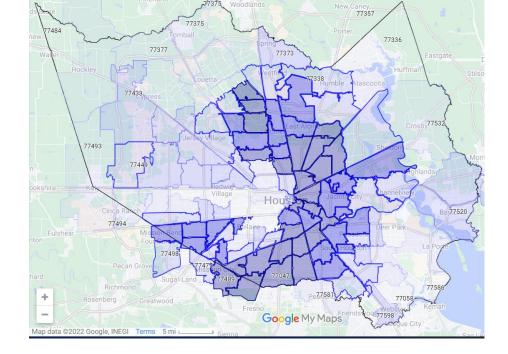


A Brief Example

 The majority of Harris County's population belongs to a racial or ethnic minority.

• 1 out of every 2 older adults in Harris County is from a

racial or ethnic minority group.





Today's Central Question

How do we work to ensure equitable service delivery when we have limited resources?





What does equitable service delivery mean to you?



How do people in your community learn about your services?

One Traditional Method

Meet someone in community

Service Access

Partnership



Meet potential clients

Outreach invitation

Why It Works







Today's Proposal

- Use the CARE Index and American Community Survey/Census data to identify pockets of potentially vulnerable older adult
- Compare findings with data on service delivery
- Congratulate yourself or create a plan to address gaps



First, the Florida Elder Needs Index

- Modified from Florida's Elder Needs Index created by the Florida Department of Elder Affairs
 - Uses factors from the Older Americans Act to estimate pockets of potential need
 - Information used to target potential areas of high need and evaluate service delivery



The CARE Index

% 55+ living <150%* FPL

% 55+ who identify as racial/ethnic minority

Ratio of # disabilities to 65+ population

% of 60+ older than age 85

% 60+ with limited English proficiency

% 65+ living alone



ACS vs. Census Data

- ACS collected from a small statistically representative sample every year
- Available in 1-year and 5-year estimates
- Available at zip code level (most of the time) and other geographical breakdowns
- Similar to "long form" Census questions
- Captures changes over time vs. snapshot



Where to Find this Data

- Data.census.gov
- Explore or search by table code
 - FPL B17024
 - Race/Ethnicity B01001H
 - Number of Disabilities to 65+ population S1810
 - % of older population 85+ S0101
 - Limited English Proficiency B16004
 - % 65+ Living Alone B11010
- A little math involved but Excel can handle it (and you can, too!)



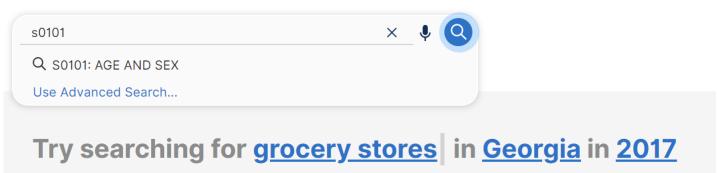
Step 1: Choose Your Table/Topic

Start at data.census.gov



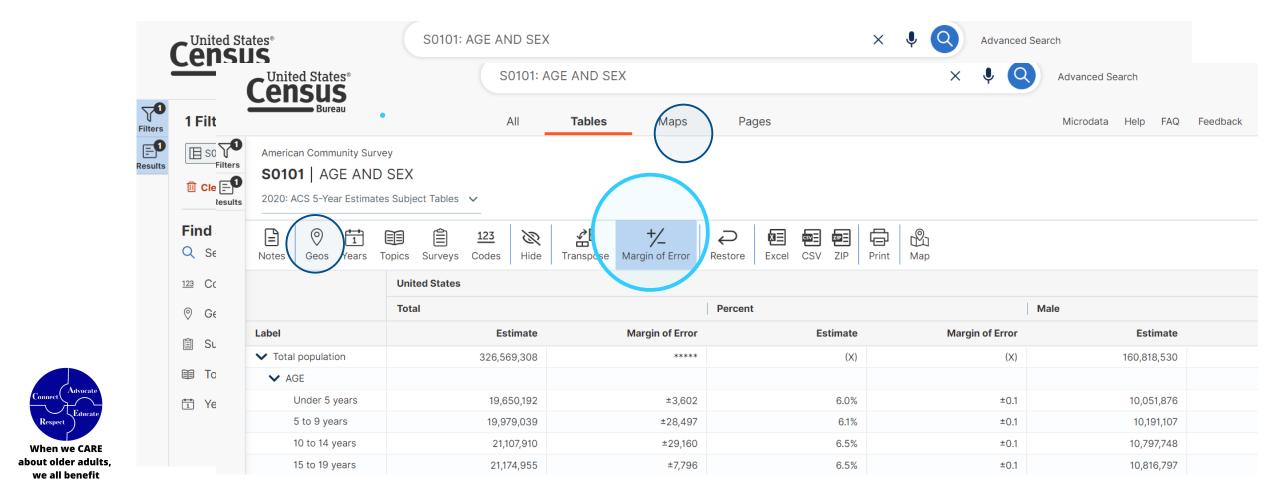
Explore Census Data

Learn about America's People, Places, and Economy

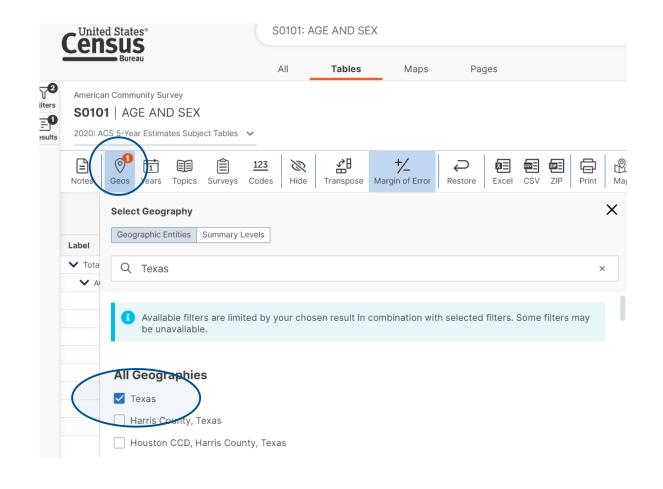




Step 2: Adjust Your View



Step 3: Choose Your Geographies

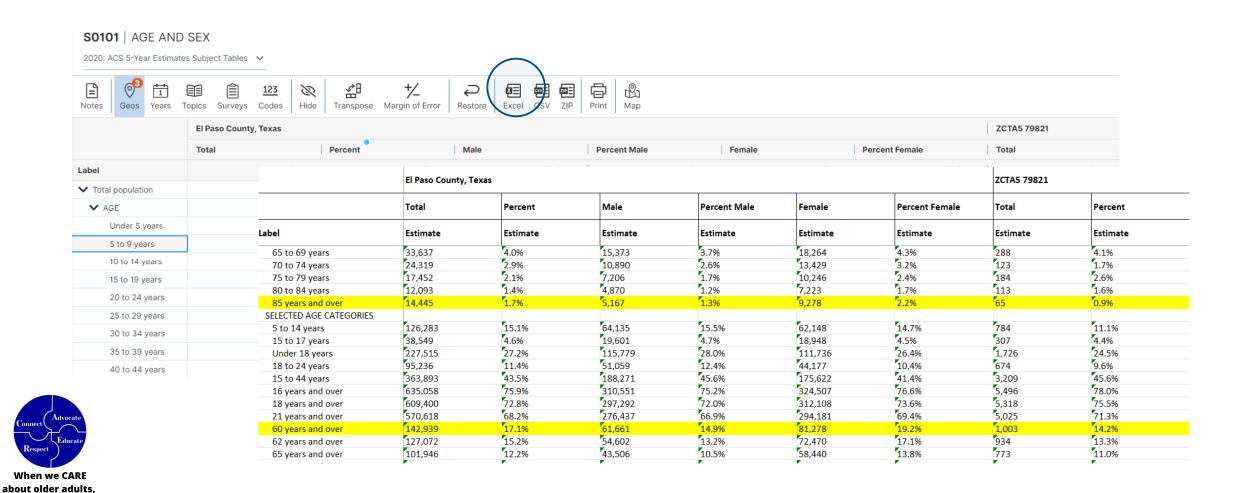


State,
County,
Zip Code
(ZCTA)



Step 4: Download, Calculate, Repeat

we all benefit



Pitfall: Numbers or look-alikes?

- If you see the little green triangles be careful
- You may need to right click and choose "Convert to Number"
- Good news you can do a chunk at a time, just don't include words

	El Paso County, Texas	ZCTA5 79821	ZCTA5 79835	ZCTA5 79902
Label	Estimate	Estimate	Estimate	Estimate
55 to 64 years:	86,222	586	1,096	2,576
Under .50	5,035	51	125	109
.50 to 74	4,153	35	69	114
.75 tc	4,649	24	11	128
1.00 t	4,597	63	40	1 78
1.25 to 1.49	5,395	67	111	73
1.50 to 1.74	4,293	18	227	39
1.75 to 1.84	1,761	5	27	o
1.85 to 1.99	3,052	0	42	93
2.00 to 2.99	15,360	122	142	294
3.00 to 3.99	11,380	155	129	441
4.00 to 4.99	7,914	6	104	171
5.00 and over	18,633	40	69	936
65 to 74 years:	57,524	329	981	2,438
Under .50	2,580	0	51	284
FO.4- 74	2 724	7 0	740	r _{cc}



Step 5: Combine Results on New Excel Sheet

- Add up the results and divide by 6
- An index is about relationship

		El Paso County	79821	79835	79902
Poverty <1	50%	0.313075872	0.541895	0.335329	0.331033
55+ Racial/	ethnic mine	0.686924128	0.458105	0.664671	0.668967
Disabilities		1.024466081	0.962373	0.898477	0.825646
85+		0.101057094	0.064806	0.051528	0.133054
LEP		0.09864367	0.067339	0.057351	0.161152
Living alon	e	0.238860708	0.17945	0.236675	0.287633
Raw score		2.463027554	2.273968	2.244031	2.407485
		0.410504592	0.378995	0.374005	0.401248





In what order would you target these communities? El Paso County has 140,000 older adults (17%)

79849 (2,100 older adults/18%)

79853 (466 older adults/20%)

79901 (2,800 older adults/28%)

79936 (18,061 older adults/17%)

Communities by the Numbers

Community	Data Description
El Paso County	More than 140,000 older adults (17%) of the population live in the county; almost 1 in 3 are below 150% FPL and 1 in 3 have LEP; high rate of disability (1.02); 69% are a racial or ethnic minority
79849	2,100 older adults (18%); almost 100% racial/ethnic minority, 49% below 150% FPL; 80% don't speak English "very well;" one of the highest rates of disability in the county
79853	466 older adults (20%); almost 100% racial/ethnic minority; 81% with LEP, 57% below FPL; high disability rate but not quite as high as the county
79901	Home to 2,800 older adults (28% population); most residents at or below 150% FPL; there are more than 1.4 disabilities per person living in the zip code
79936	18,061 older adults (17%); 19% below 150% FPL, disability rate is 16% lower than county; 22% LEP; 86% a racial/ethnic minority



CARE Index Results

Location		Score		
	79901	0.783755	79935	0.457404
	79849	0.62802	El Paso County	0.451032
	79905			0.444098
	79915	0.581741	79902	0.417973
	79853	0.572168	79924	0.417434
	79904	0.56251	<mark>79936</mark>	0.401311
	79907	0.537156	79935	0.395174



Using (Fabricated) Data

El Paso County

• 142,939/3,476 unduplicated

• 2.4%

77849

• 2,078/125 unduplicated

• 6.0%

79853

• 466/32 unduplicated

• 4.5%

3

79901

• 2,521/33 unduplicated

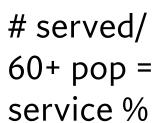
• 1.3%

about older adults, we all benefit

79936

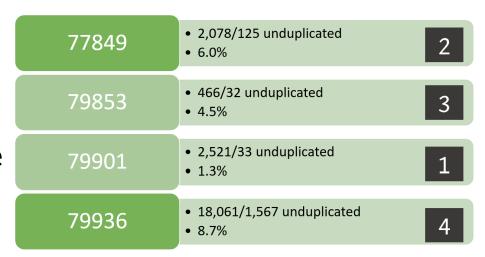
• 18,061/1,567 unduplicated

• 8.7%



A Potential Mismatch

- Highest indexed zip code had lowest service percentage
- Ask questions
 - Why is it this way?
 - Why does it have to be this way?
 - In what ways are we contributing to the situation?
 - Where can we make even incremental improvements?
 - Who needs to be at the table to help us reach our goals?



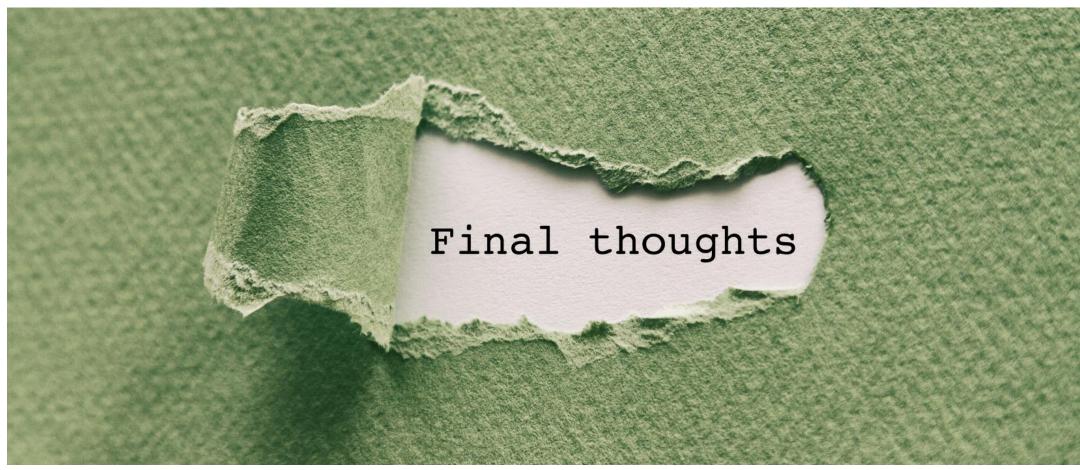


Become the Puzzle Master





You Got This!



Connect with CARE

Tammy Mermelstein, JD, MSW tammy@whenwecare.org 346-704-4233



Pick Up Your Copy Today







If you cannot access Google Drive, email tammy@whenwecare.org for a PDF of this presentation.

ACS Table Math

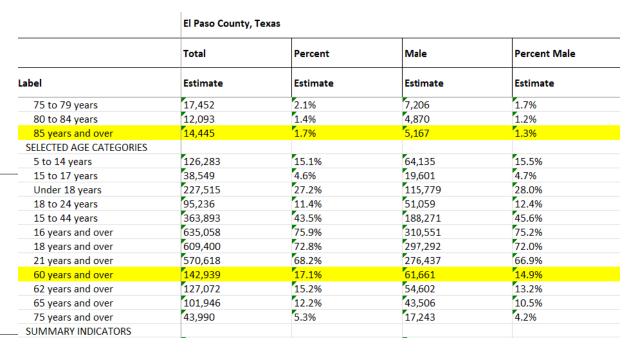
The following slides have formulas to calculate each of the CARE Index factors. Please reach out to me at tammy@whenwecare.org if you need assistance.



S0101 (Age) Math

- Broken down by age sex
- Find the "60 and over" cell in the Selected Age Categories section
- Do the same for 85 and over in the Age section

Example formula
=B23/B33





B17024 (Ratio of Income to Poverty) Math

- Broken down by age and poverty level (55-64, 65-74, 75+)
- Add cells for "Under .50" to "1.25-1.49") for each age range
- You will need total population (55+) just add the total for age ranges

	El Paso County, Texas	ZCTA5 79821	ZCTA5 79835	ZCTA5 79902	
Label	Estimate	Estimate	Estimate	Estimate	
55 to 64 years:	86,222	586	1,096	2,576	
Under .50	5,035	51	125	109	
.50 to .74	4,153	35	69	114	
.75 to .99	4,649	24	1 11	128	
1.00 to 1.24	4,597	63	40	178	
1.25 to 1.49	5,395	67	111	73	
1.50 to 1.74	4,293	18	227	39	
1.75 to 1.84	1,761	5	27	0	
1.85 to 1.99	3,052	o	42	93	
2.00 to 2.99	15,360	122	142	294	
3.00 to 3.99	11,380	155	129	441	
4.00 to 4.99	7,914	6	104	171	
5.00 and over	18,633	40	69	936	
65 to 74 years:	57,524	329	981	2,438	
Under .50	2,580	o	51	284	
FO+- 74	2 724	70	40	r _{CC}	

Example formula

=SUM(Data!B96:B100)+SUM(Data!B109:B113)+ SUM(Data!B122:B126)



Number Below/Total Pop = ratio

B01001H (Race/Ethnicity) Math

- Avoids data suppression issues
- Use 55+ population #s
- Add rows from both male and female
- White, not Hispanic/Total Pop (% White, not Hispanic)
- Subtract from 1 for % racial/ethnic minority

Example formulas

=SUM(Data!B15:B18+Data!C30)

Answer/Total Pop 55+ = ratio White

1-ratio White = % racial/ethnic minority



	El Paso County, Te	exas ZCTA5 79821	ZCTA5 79835	ZCTA5 7990	2
Label	Estimate	Estimate	Estimate	Estimate	
65 to 74 years		5,349	101	72	440
75 to 84 years		2,443	34	25	80
85 years and over		1,197	0	12	137
Female:	44,203	180	354	1,643	
Under 5 years	2,918	o	13	81	
5 to 9 years	2,431	o	o	80	
10 to 14 years	2,449	o	37	33	
15 to 17 years	1,296	o	17	18	
18 and 19 years	697	o	16	44	
20 to 24 years	2,897	o	o	100	
25 to 29 years	3,625	41	32	137	
30 to 34 years	3,073	11	29	43	
35 to 44 years	5,009	o	58	205	
45 to 54 years	4,626	29	25	72	
55 to 64 years		5,722	34	19	364
65 to 74 years		4,814	18	60	197

S1810 (Disabilities) Math

- Use 65+ population #s
- Add "With a disability" for each type of disability for the 65+ population
- # of people reporting disabilities/65+ population

Example formulas

=Data!C33+Data!C43+Data!C51+Data!C5 9+Data!C67+Data!C74

Answer/Total Pop 65+ = disability ratio



	El Paso County, Texas			ZCTA5 79821		
	Total	With a disability	Percent with a disability	Total	With a disability	
abel	Estimate	Estimate	Estimate	Estimate	Estimate	
65 to 74 years	57,524	18,665	32.40%	329	13	
75 years and over	42,819	24,808	57.90%	362	13	
DISABILITY TYPE BY DETAILED AGE						
With a hearing difficulty	(X)	27,418	3.40%	(X)	18	
Population under 18 years	227,407	1,378	0.60%	1,726		
Population under 5 years	62,683	398	0.60%	635		
Population 5 to 17 years	164,724	980	0.60%	1,091		
Population 18 to 64 years	485,458	10,223	2.10%	3,589	8	
Population 18 to 34 years	205,158	1,906	0.90%	1,500	2	
Population 35 to 64 years	280,300	8,317	3.00%	2,089	5	
Population 65 years and over	100,343	15,817	15.80%	691	10	
Population 65 to 74 years	57,524	5,742	10.00%	329	2	
Population 75 years and over	42,819	10,075	23.50%	362	7	

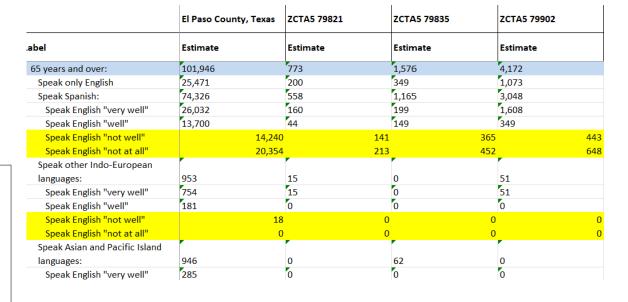
B16004 (Limited English) Math

- Use 65+ population #s in this chart for this calculation only
- For 65+ add "not well" and "not at all" for each language
- # LEP/65+ population from this chart

Example formulas

=Data!B53+Data!B54+Data!B58+Data!B59+Data !B63+Data!B64+Data!B68+Data!B69

Answer/Total Pop 65+ = LEP ratio





B11010 (Living Alone) Math

- Use 65+ population #s from S1810 (community living)
- Add Male, Living Alone, 65+ and Female, Living Alone, 65+
- # living alone/65+ population

Example formulas

=Data!B7+Data!B14

Answer/Total Pop 65+ = living alone

	El Paso County, Texas	ZC1A5 /9821	ZC1A5 /9855	ZC1A5 /9902
Label	Estimate	Estimate	Estimate	Estimate
Male householder:	36,965	212	456	2,167
Living alone:	30,803	184	414	1,795
Householder 15 to 64 years	23,278	97	347	1,371
Householder 65 years and over	7,525	87	67	424
Not living alone:	6,162	28	42	372
Householder 15 to 64 years	5,504	10	42	353
Householder 65 years and over	658	18	0	19
Female householder:	38,533	172	460	2,079
Living alone:	34,248	164	427	1,687
Householder 15 to 64 years	17,805	127	121	976
Householder 65 years and over	16,443	37	306	711
Not living alone:	4,285	8	33	392
Householder 15 to 64 years	3,497	8	9	325

