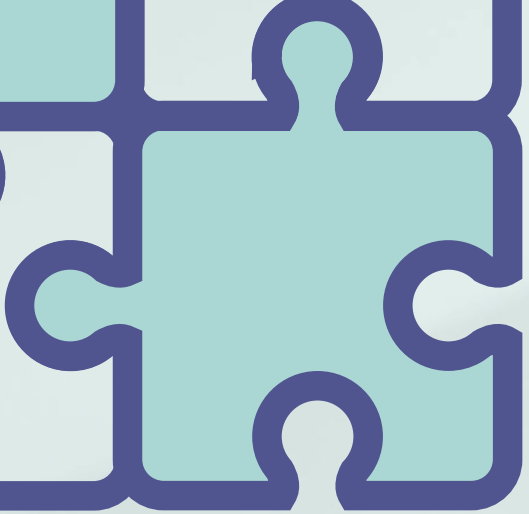


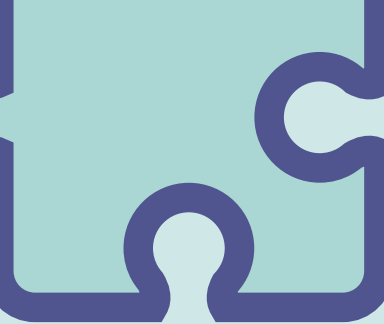


FOOD INSECURITY AND THE IMPLICATIONS OF TOBACCO FLAVORING ON OVERALL TOBACCO PRODUCT AND E-CIGARETTE USE

**FRANCINE SOLIZ
CALIFORNIA STATE UNIVERSITY, FRESNO
BITER PROGRAM
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What Do We Know?

- E-cigarette Usage Rates Increase
- Young Adults Use of Nicotine Products
- Flavoring Usage
- Food Insecurity and Tobacco Use
- U.S. Latinx adults' Smoking Rates (3x)
- Latinx college students' vulnerabilities

What Now?



Project Aims

Filling in the Blanks

Does Food insecurity
increase tobacco usage?

What role does flavoring
have?

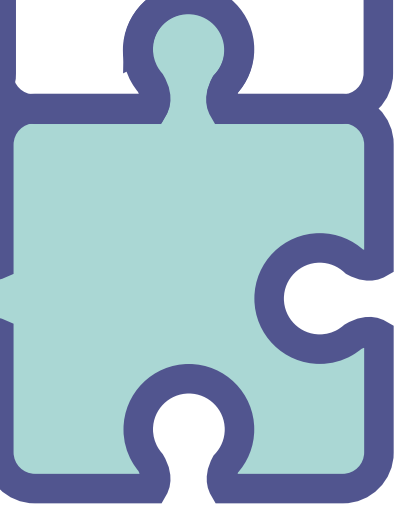
Scales/Question

- US Household Food Security Module: Six Item Short Form for Food Insecurity
- National Youth Tobacco Survey (NYTS) 2023 Questionnaire
 - “In total, on how many days have you used e-cigarettes in your entire life?”
- Scales used by Landry et al.
 - “What is the e-liquid flavor your typically buy?”

Who is our Population?

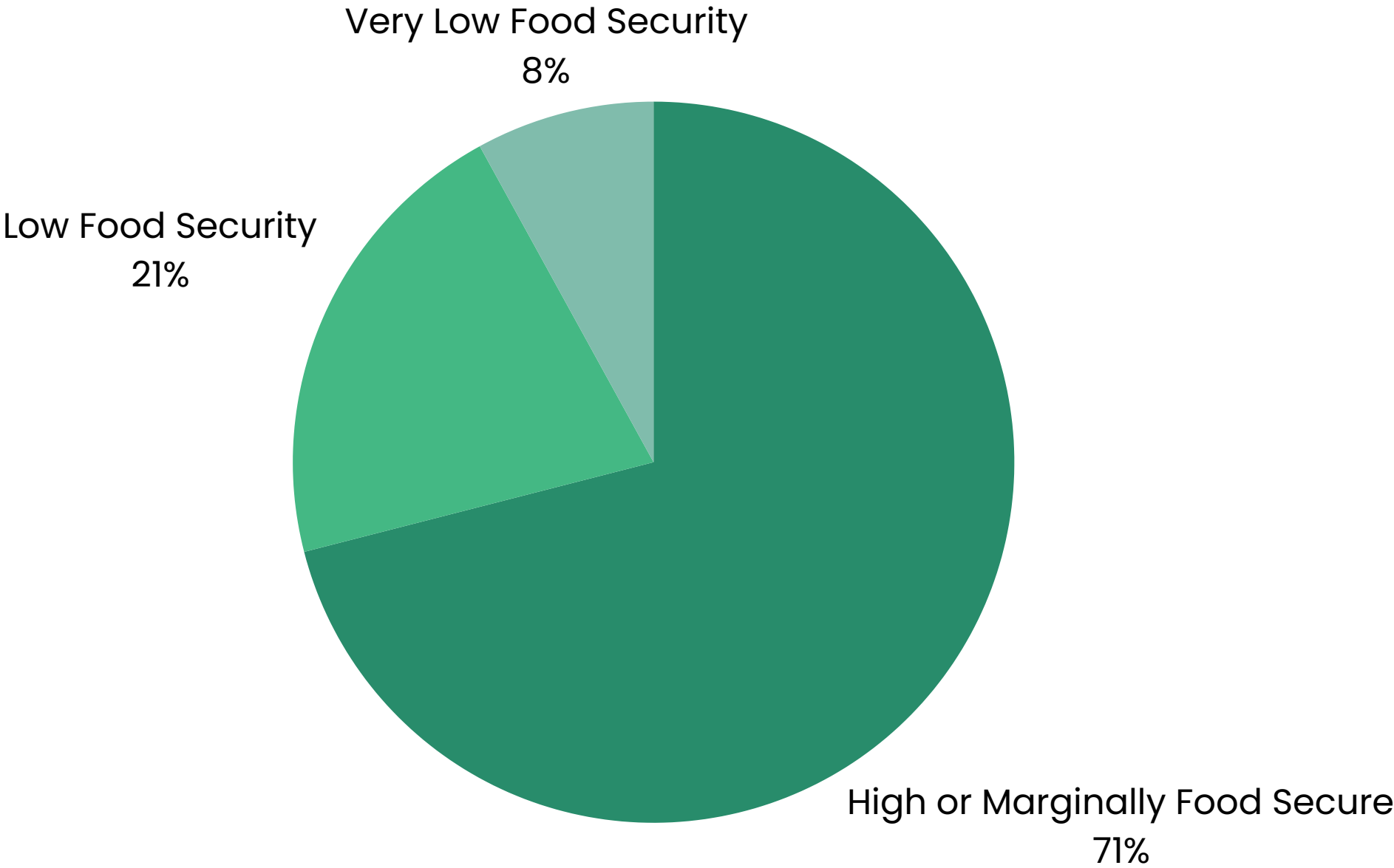
- Number of participants= 348
- Participants
 - Fresno City College (65)
 - Fresno State Psych (237)
 - Fresno State Non-Pych (46)

- Form of compensation
 - Amazon Gift Card
 - Credit for the course
 - Extra credit
- 70.7% female, 25% male
- Mean Age = 19.92



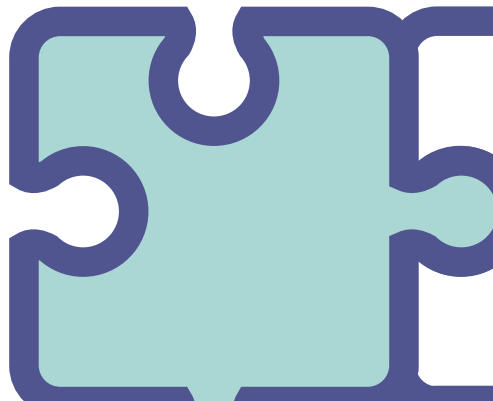
What We Found

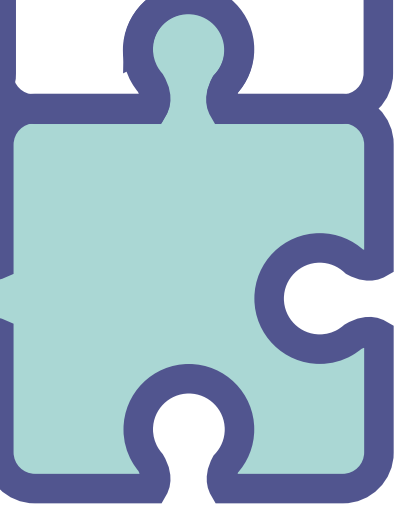
Reports of Food Security



National Average

- Low Food Security: 8.4%
- Very Low Food Security: 5.1%
- Food-insecure Household: 13.5%
- Food-secure household: 86.5%





What We Found

Table 2. Correlation among Very Low Food Security

	1	2	3	4	5	6	7
1 E-cig							
2 Lifetime Use (E-Cig)							
3 tobnic_tried	.66**	.26**					
4 foodsec_vlow	0.03	0.07					
5 Flavor Total	.52**	.28**	.51**	0.01			
6 FEMALE	0.09	-0.06	-0.03	0.03	-0.03		
7 f_born	-0.05	-0.16	-0.04	0	0.02	0	

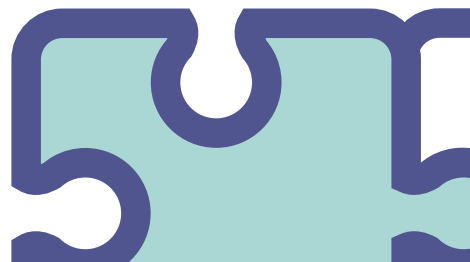
Note. N=348 * $p < 0.05$; ** $p < .01$

- Significance: Low Security
- Tobnic_tried and E-cig and Lifetime Use
 - Foodsec_low and E-Cig
 - Foodsec_low and Lifetime Use
 - Flavoring and Lifetime Use

Nonsignificance: Very Low Security

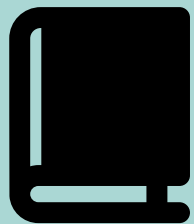
- Foodsec_low = Low Food security
- Foodsec_vlow= Very low Food security
- Flavor Total=Total of flavors reported
- E-Cig= Electronic cigarettes
- Tobnic_tried= Reports of Trying tobacco/nicotine
- F_Born= Foreign Born

What Does this Mean..





Diving Deeper



“Low Food Security” had 83% higher odds of using e-cigarettes than those who were food secure



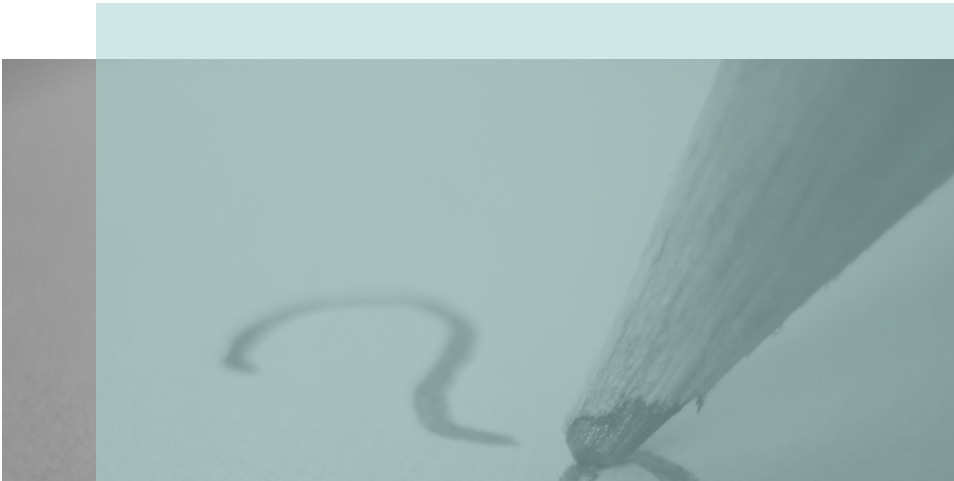
Low food security was indirectly related to e-cigarette use



Flavor was not a mediator for very low food security

Table 3 <i>Analysis of Indirect and Total Effects Involving Food Insecurity, Flavored Tobacco, and E-Cigarette Use</i>				
Effect Type	Estimate	SE	z	p
Indirect Effects				
Low Food Security → Flavored Tobacco → E-Cig Use				
	0.10	0.05	2.23	0.03
Very Low Food Security → Flavored Tobacco → E-Cig Use				
	0.08	0.07	1.24	0.22

Does this Match/Why did this happen?



WHAT DID WE LEARN?

M

Movement

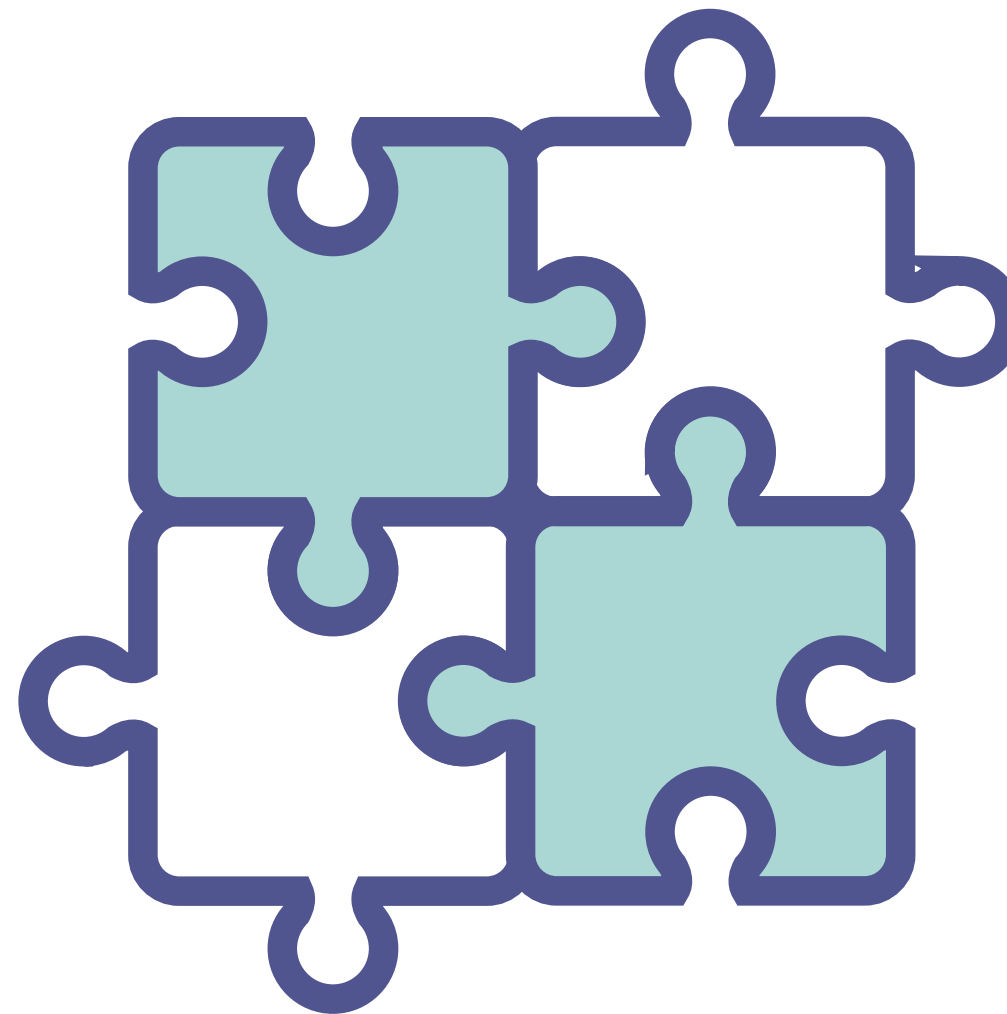
Move to support the community

O

Organization

Organize the information and present to the community

M.O.R.E can be Done!



R

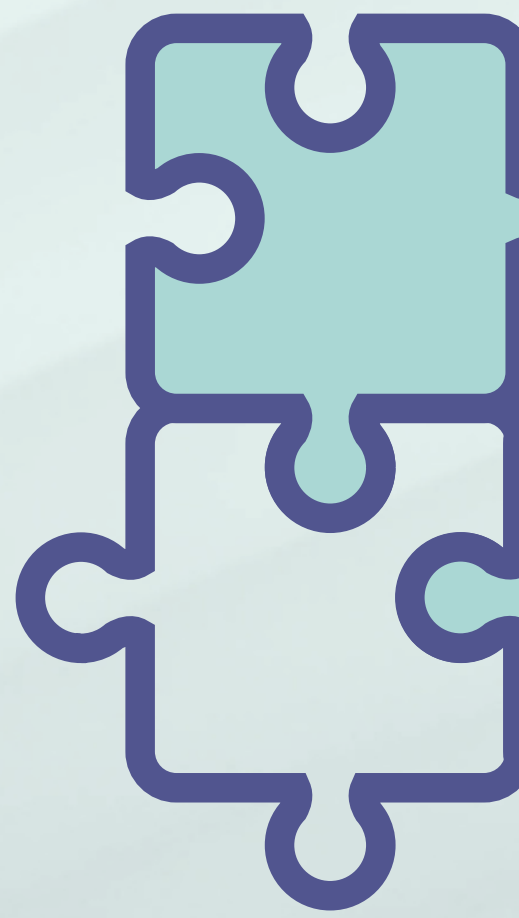
Rethink and Research

Research can always help add to our understanding

E

Evaluation

Evaluations for after, more research can mean we can better assist our communities



**Thank you very
much!**