

VERMONT CENTER FOR GEOGRAPHIC INFORMATION

## VERMONT OPPORTUNITY ZONES WORKSHOP Teling your story with data.

John E. Adams Director john.e.adams@vermont.gov

> vcgi.vermont.gov 06.27.2019

# opportunity.mapvt.com

## **OPPORTUNITY ZONES**

#### **MAPPING & DATA RESOURCES**



# What happened on January 28, 1986?

# What happened on January 28, 1986?



EDWARD R. TUFTE

VISUAL AND STATISTICAL THINKING: DISPLAYS OF EVIDENCE FOR MAKING DECISIONS

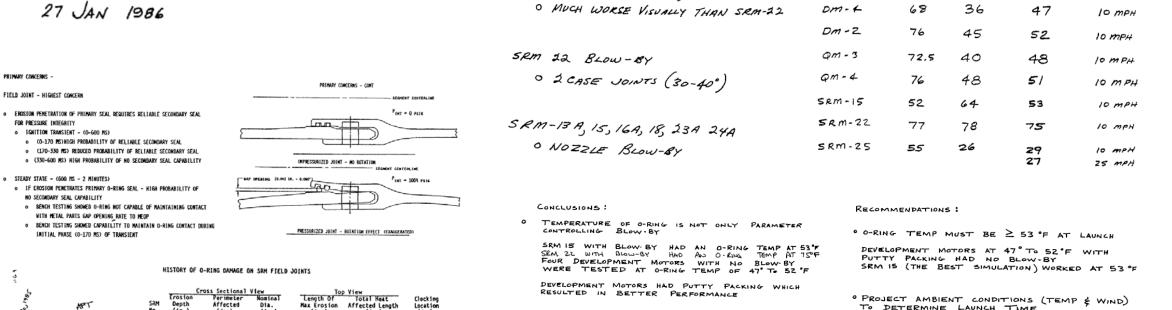
#### TEMPERATURE CONCERN ON

## SRM JOINTS

PRIMARY CONCERNS -

3

27 JAN 1986



BLOW BY HISTORY

SRM-15 WORST BLOW-BY

0 2 CASE JOINTS ( 80'), (110°) ARC

5		Cross Sectional View			Top View			
and the second	SRM No.	Erosion Depth (in.)	Perimeter Affected {deg}	Nominal Dia. (in.)	Length Of Max Erosion (in.)	Total Heat Affected Length (in.)	Clocking Location (deg)	
	22A 22A 15A 15B 15B	None NONE 0.010 0.038 None	None NONE 154.0 130.0 45.0	0.280 0.280 0.280 0.280 0.280 0.280	None NONE 4.25 12.50 None	None NONE 5.25 58.75 29.50	36*66* 338*-18* 163 354 354	
41D RH Forward Field 41C LH Aft Field* 418 LH Forward Field	138 11A 10A	0.028 None 0.040	110.0 None 217.0	0.280 0.280 0.280	3.00 None 3.00	None None 14,50	275 351	
STS-2 RH Aft Field	28	0.053	116.0	0.280			90	

\*Hot gas path detected in putty. Indication of heat on O-ring, but no damage. \*\*Soot behind primary O-ring. \*\*\*Soot behind primary O-ring, heat affected secondary O-ring.

Clocking location of leak check port - 0 deg.

OTHER SRM-15 FIELD JOINTS HAD NO BLOWHOLES IN PUTTY AND NO SOOT NEAR OR BEYOND THE PRIMARY O-RING.

SRM-22 FORWARD FIELD JOINT HAD PUTTY PATH TO PRIMARY O-RING, BUT HO O-RING EROSION AND HO SOOT BLOWBY. OTHER SRM-22 FIELD JOINTS HAD NO BLOWHOLES IN PUTTY.

O TEMP FOR SRM 25 ON 1-28-B6 LAUNCH WILL BE 29 F 9AM 38 F 2 PM

AT ABOUT 50 F BLOW-BY COULD BE EXPERIENCED IN CASE JOINTS

O HAVE NO DATA THAT WOULD INDICATE SEM 25 IS DIFFERENT THAN SRM IS OTHER THAN TEMP

-

TO DETERMINE LAUNCH TIME

HISTORY OF O-RING

AMB

MBT

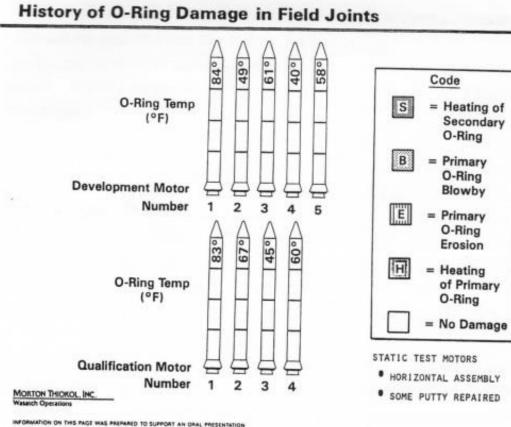
MOTOR

( DEGREES - F

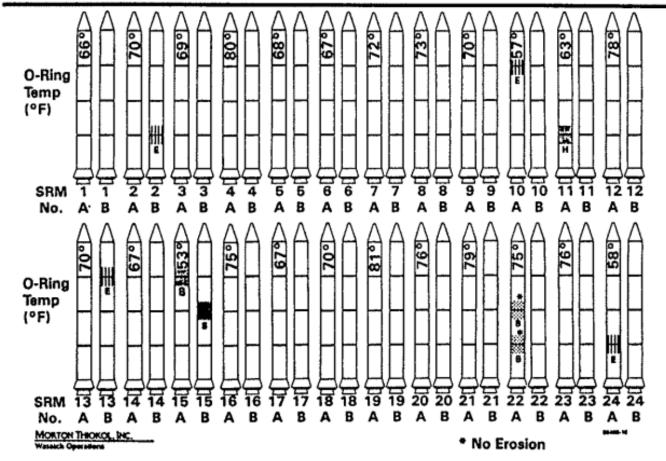
O-RING

TEMPERATURES

WIND

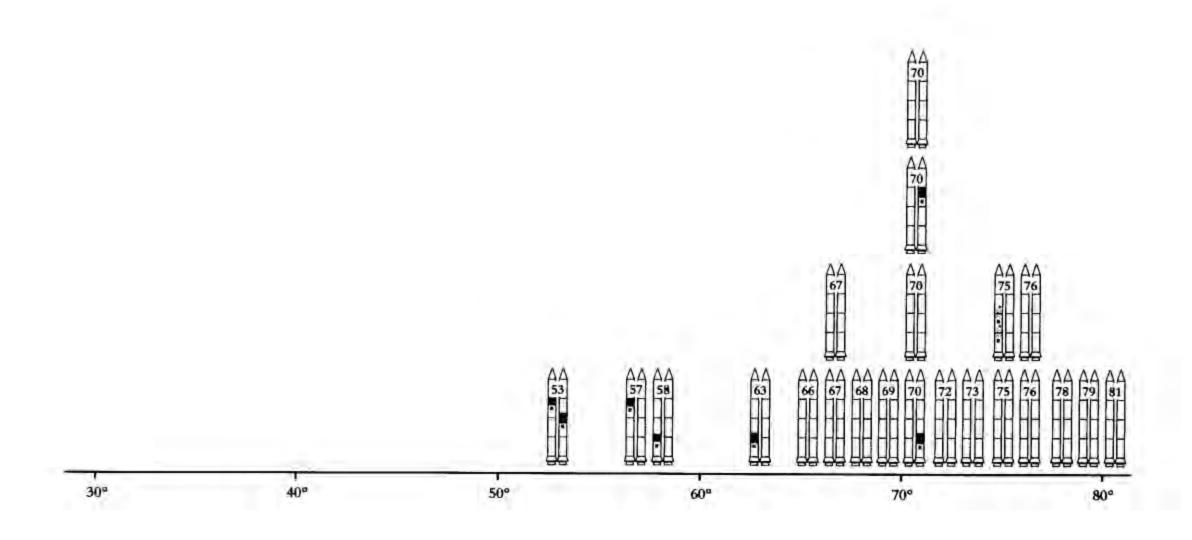


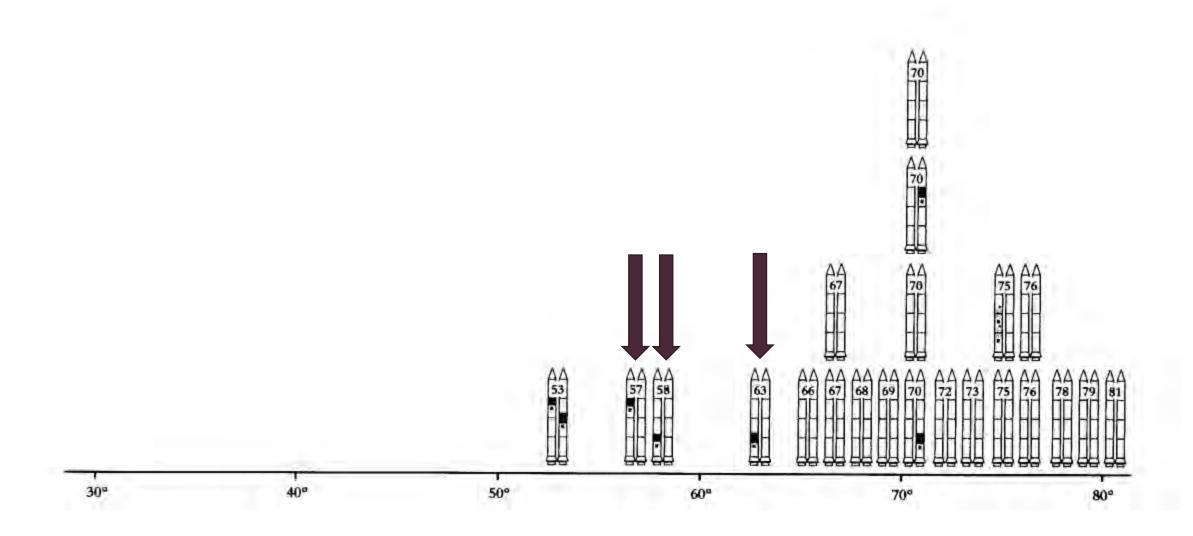
#### History of O-Ring Damage in Field Joints (Cont)

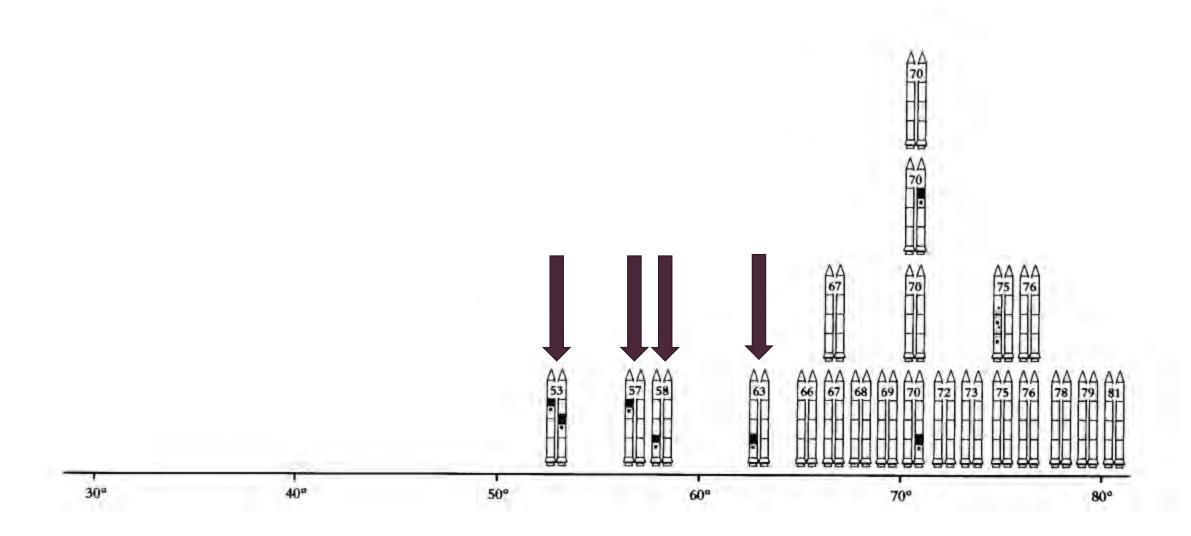


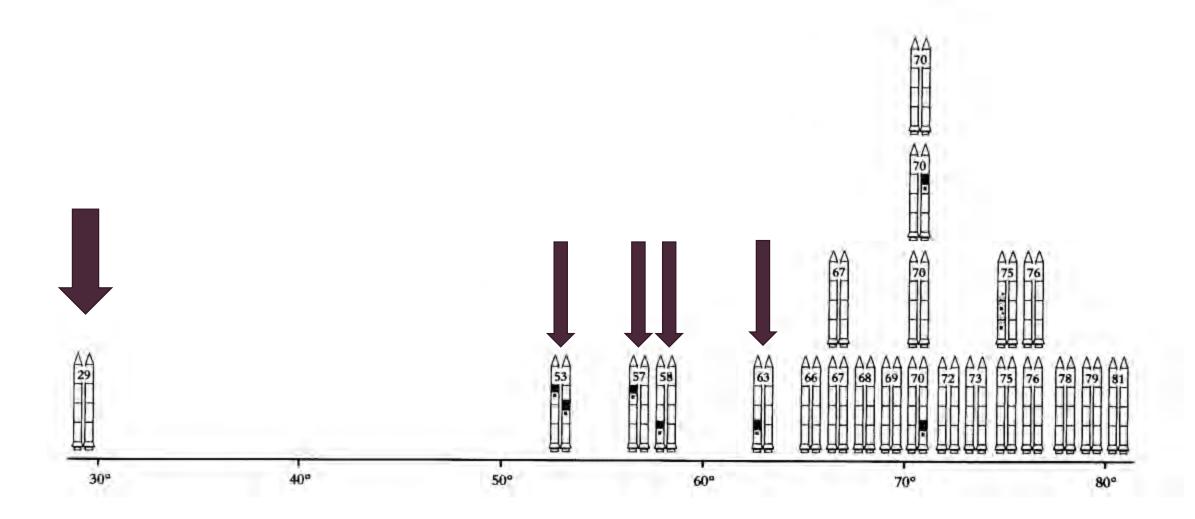
INFORMATION ON THIS PAGE WAS PREMARED TO SUPPORT AN GRAL PRESENTATION AND CANNOT BE CONSIDERED COMPLETE WITHOUT THE GRAL DISCUSSION

AND CANNOT BE CONSIDERED COMPLETE WITHOUT THE DRAL DISCUSSION



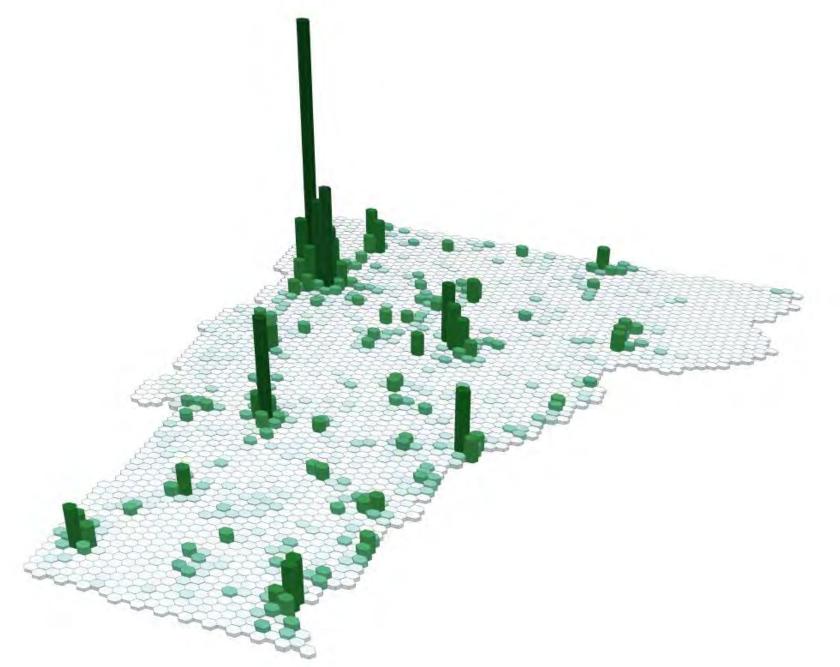




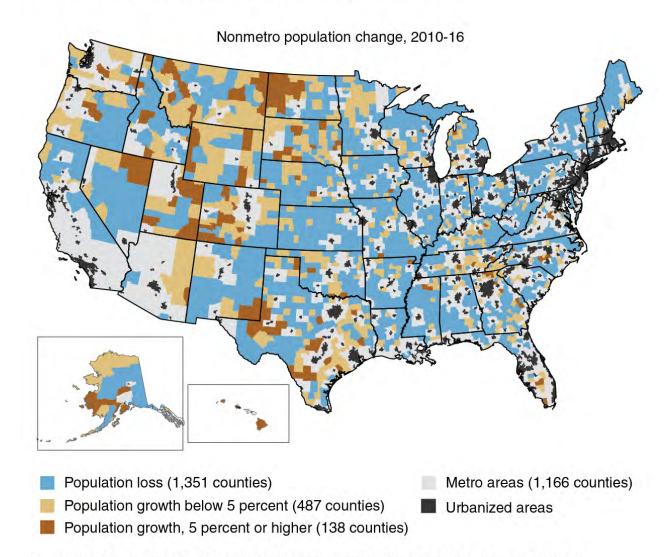


# "Don't bring data to a story fight."

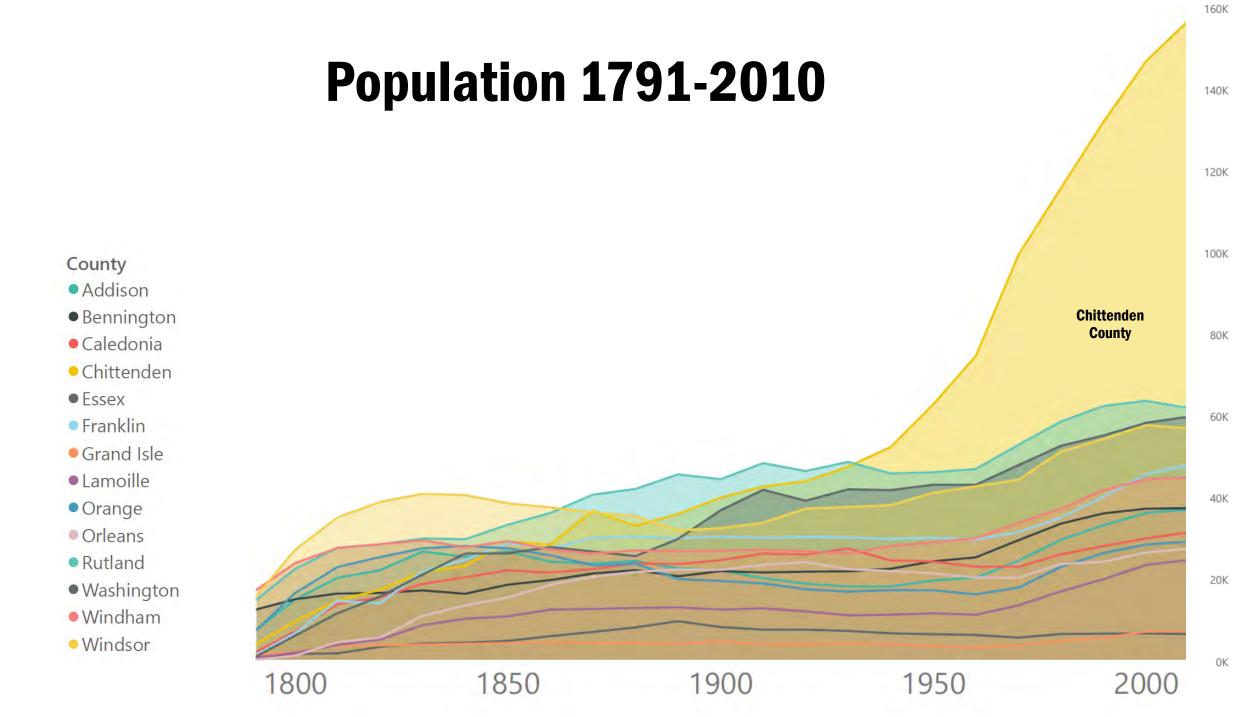
## JOBS (2015 LEHD)



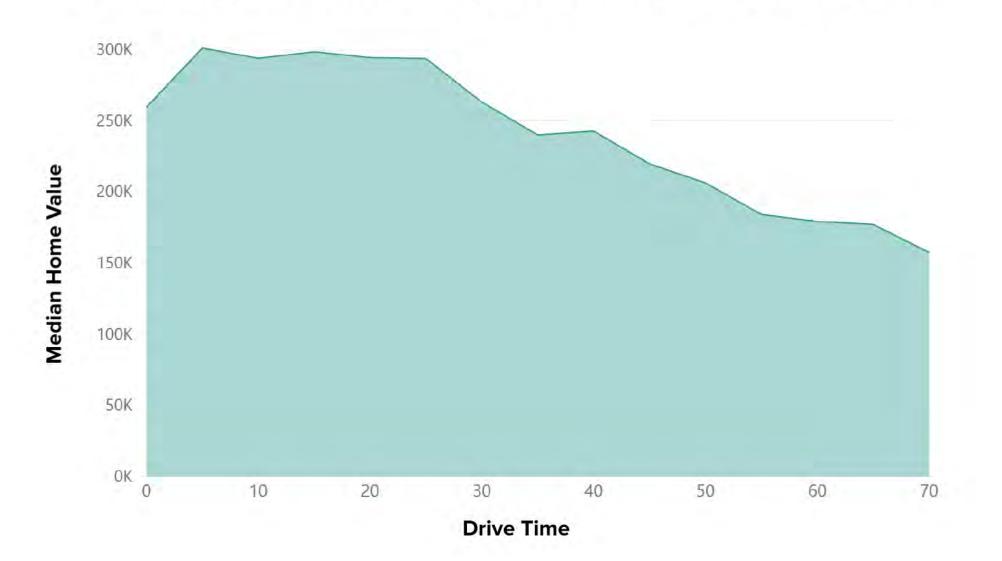
#### Population loss now widespread in the Eastern United States

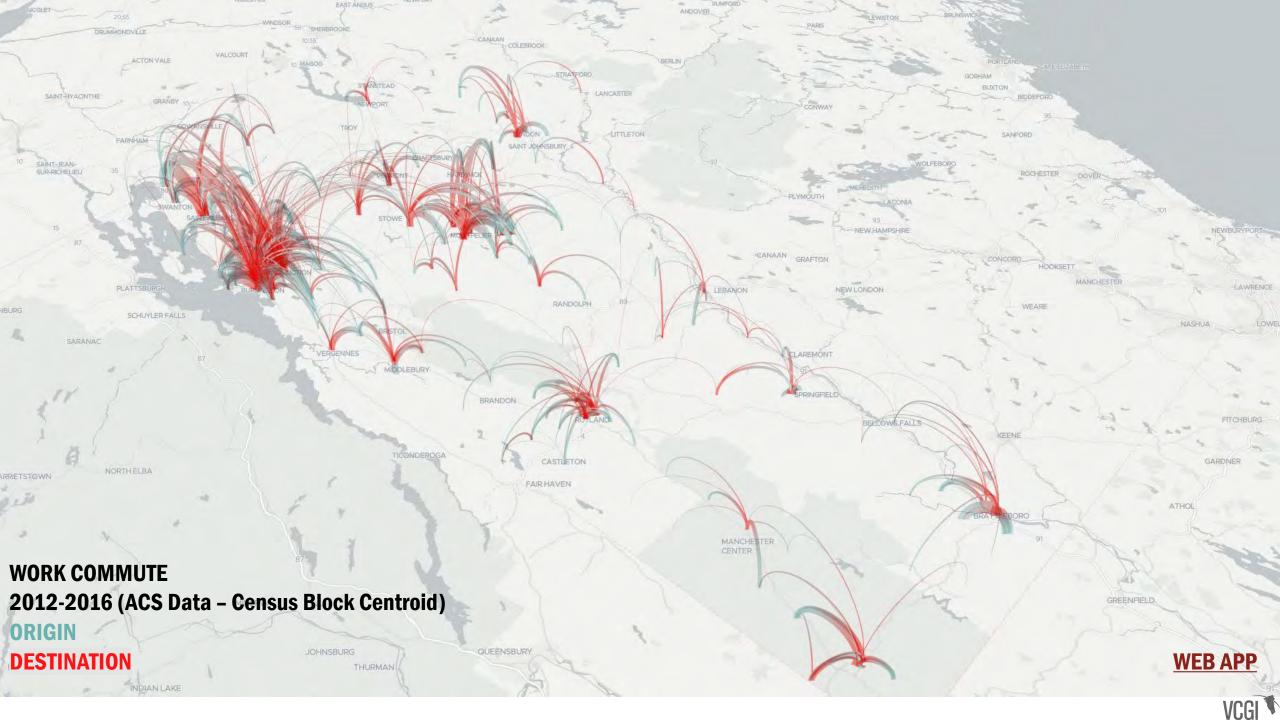


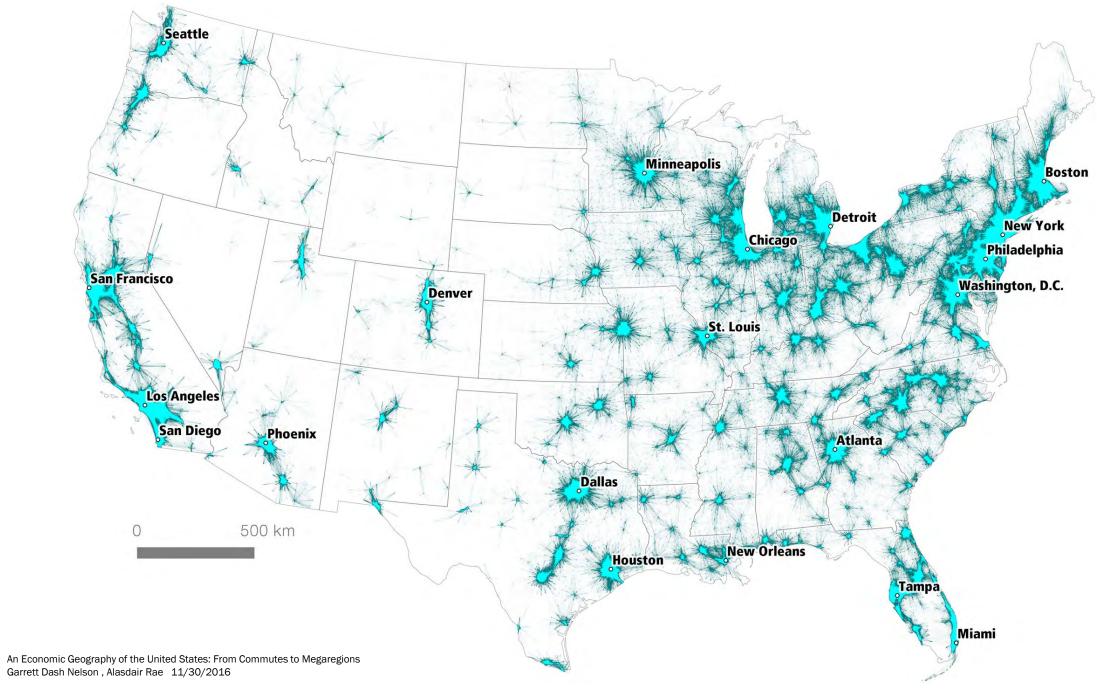
Source: USDA, Economic Research Service using data from the U.S. Census Bureau.



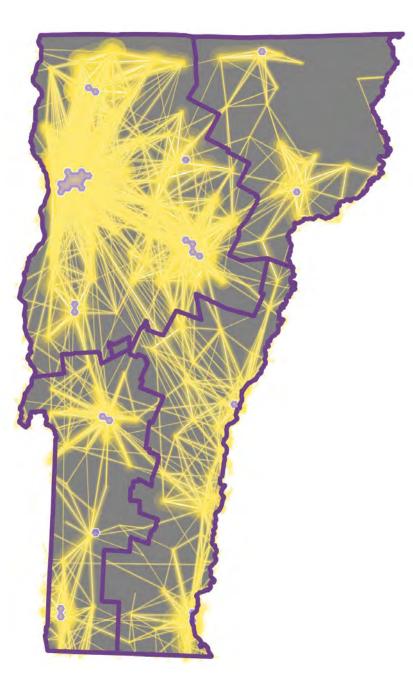
## Median Home Value & Drive Time to Burlington



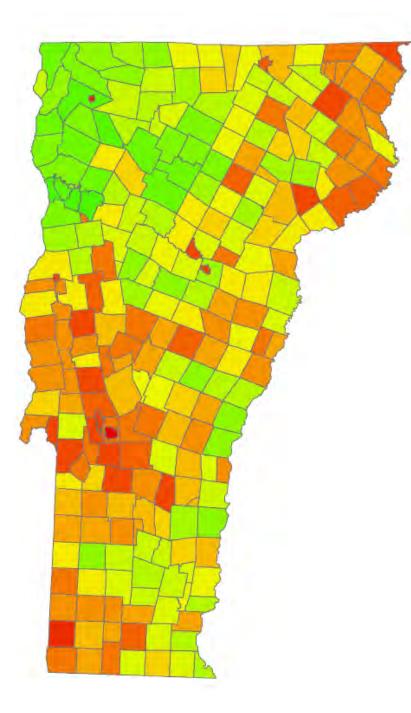




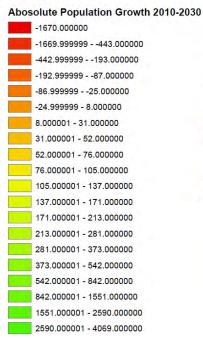
#### •https://doi.org/10.1371/journal.pone.0166083



Projected Population Changes 2010-2030

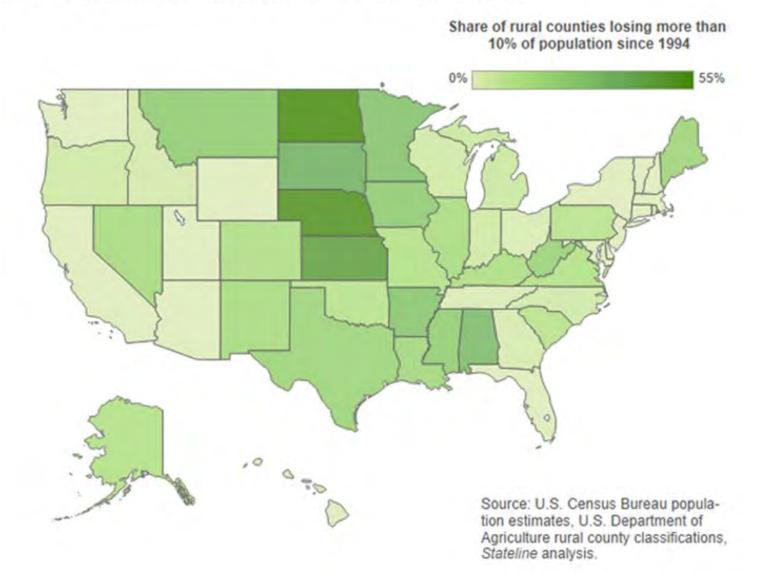






### **Rural Population Loss**

Population loss has accelerated in recent years for much of rural America. Twenty-nine states saw a drop in population in their rural counties this decade. About half the rural counties in Kansas, Nebraska and North Dakota lost more than 1 in 10 of their residents since 1994. Delaware, New Jersey and Rhode Island have no counties classified as rural by the U.S. Department of Agriculture. Hover over states for details. ..



#### Population change by county type, 2001-08 and 2010-17 Percent change 2001-08 2010-17 9 7.4 7 6.3 Non-Metro Areas without 5.6 recreation economy all losing 5 population 3.0 3 2.4 2.2 1.7 1 -0.4 -1 -0.7 -0.9 -1.8 -2.2 -3 Nonmetro Nonmetro Nonmetro Nonmetro Other Metro

manufacturing

recreation

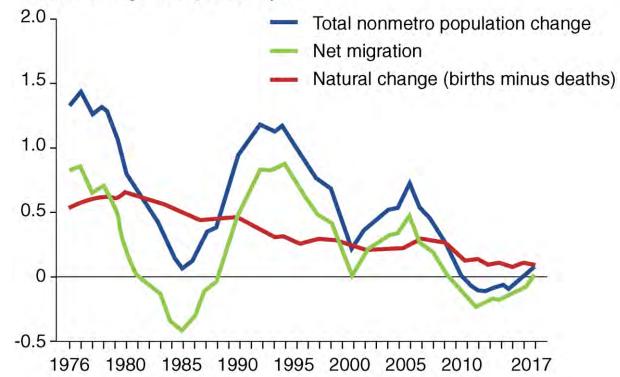
nonmetro

farming

mining

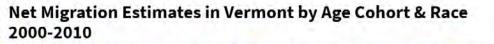
Net migration has driven growth in the rural (nonmetro) population since 2011-12

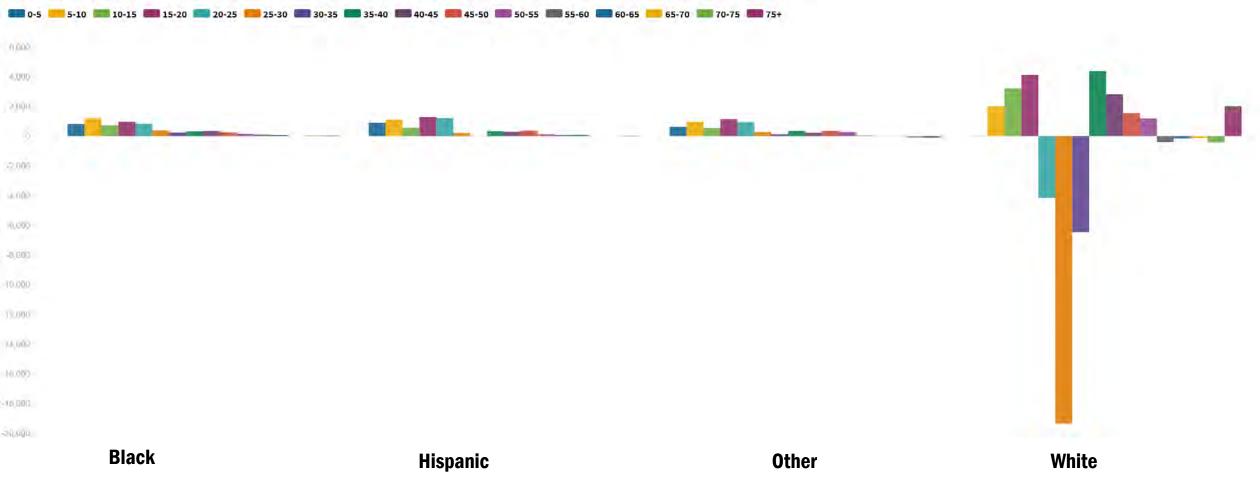
Percent change from previous year



Note: Nonmetro is determined by the Office of Management and Budget, 2013 metro/nonmetro area definitions. Nonmetro status changed for some countries in 1980, 1990, 2000, and 2010.

Source: USDA, Economic Research Service using data from the U.S. Census Bureau.

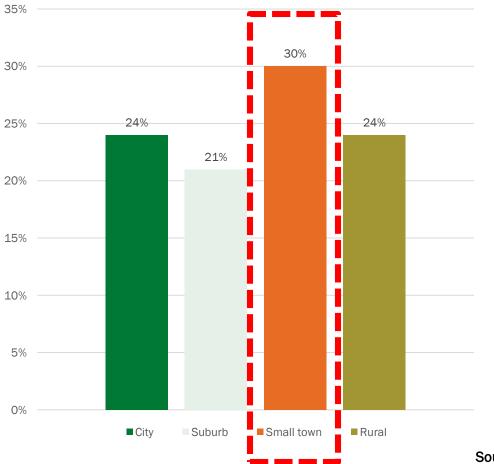




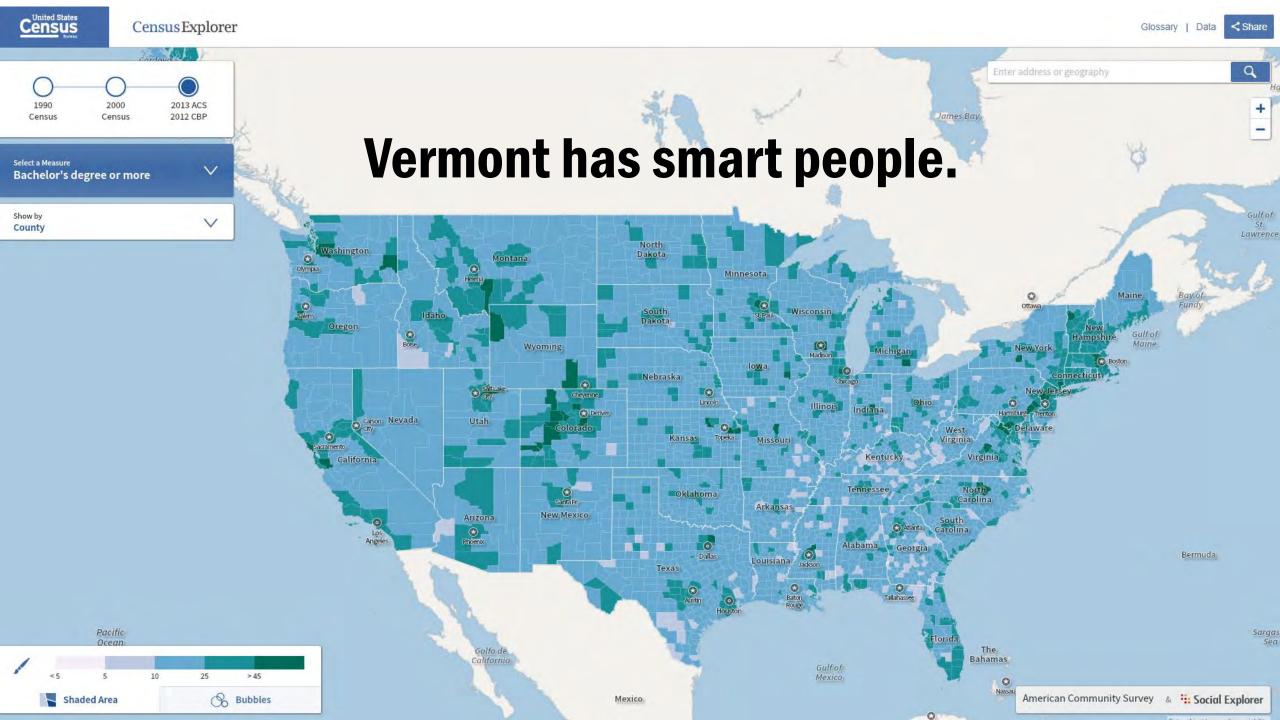
Source: Winkler, Richelle, Kenneth M. Johnson, Cheng Cheng, Jim Beaudoin, Paul R. Voss, and Katherine J. Curtis. Age-Specific Net Migration Estimates for US Counties, 1950-2010. Applied Population Laboratory, University of Wisconsin- Madison, 2013.

## People want to live in small towns

If you could live anywhere in the United States that you wanted to, would you prefer a city, a suburban area, a small town or a rural area? n: 3,341



Source: Pew Research Center 2014



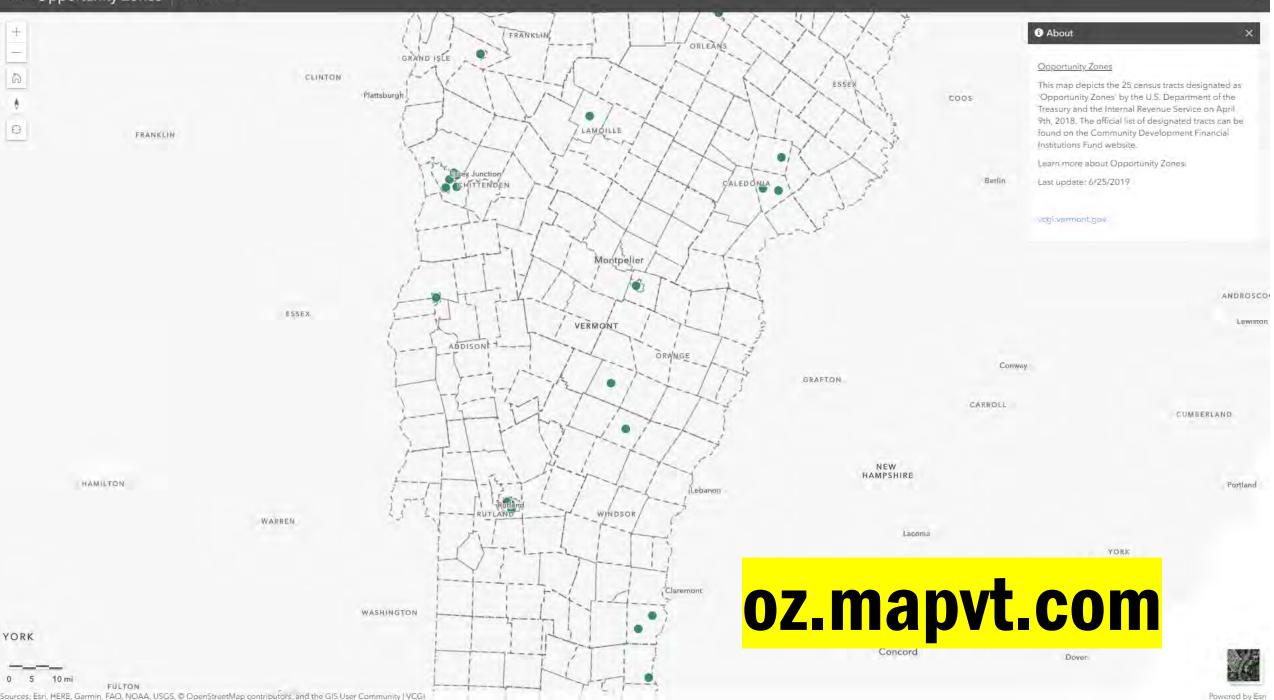


## VERMONT \_\_\_\_ EVERYWHERE USA



# That's nice. I sort of already knew that.

# What are some helpful tools available to me?



Q

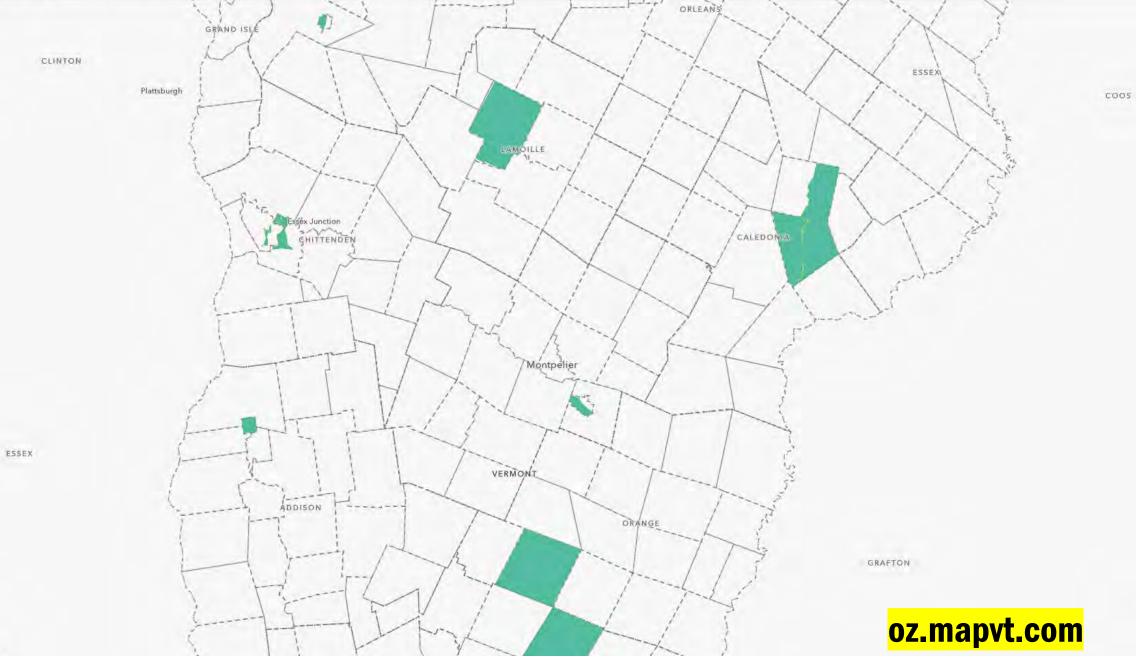
Berlin

Con

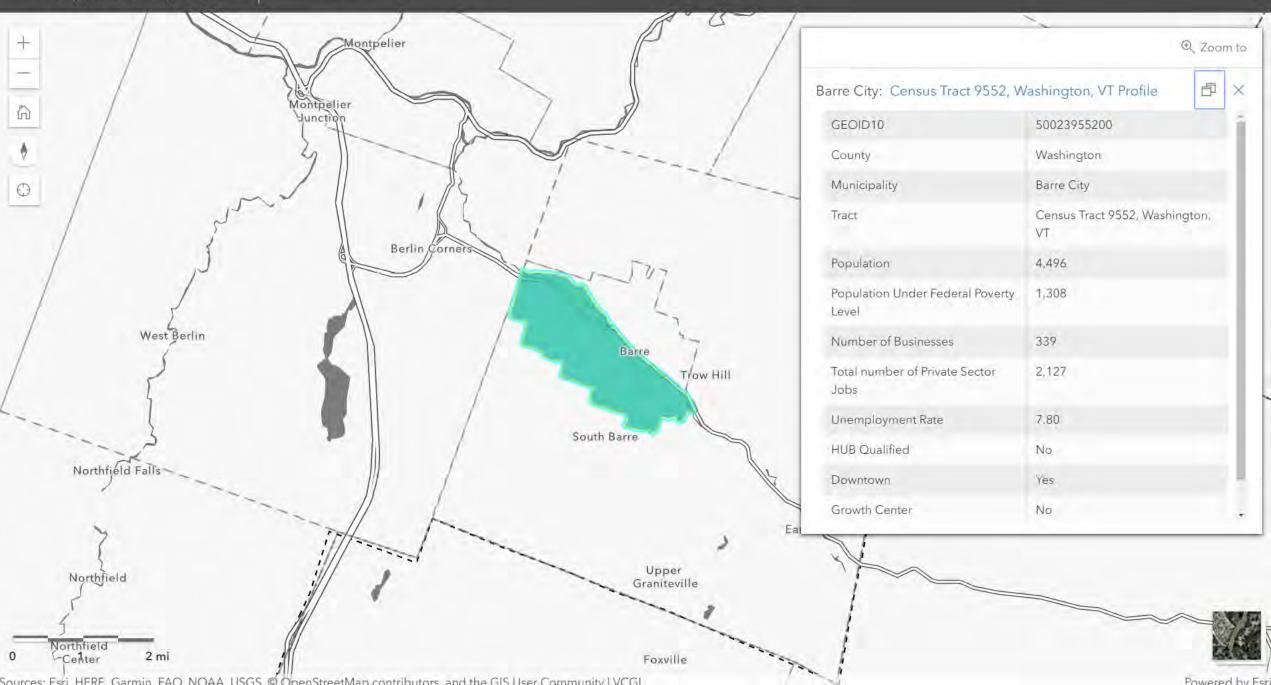
CARROLL

+ | 4 • 0

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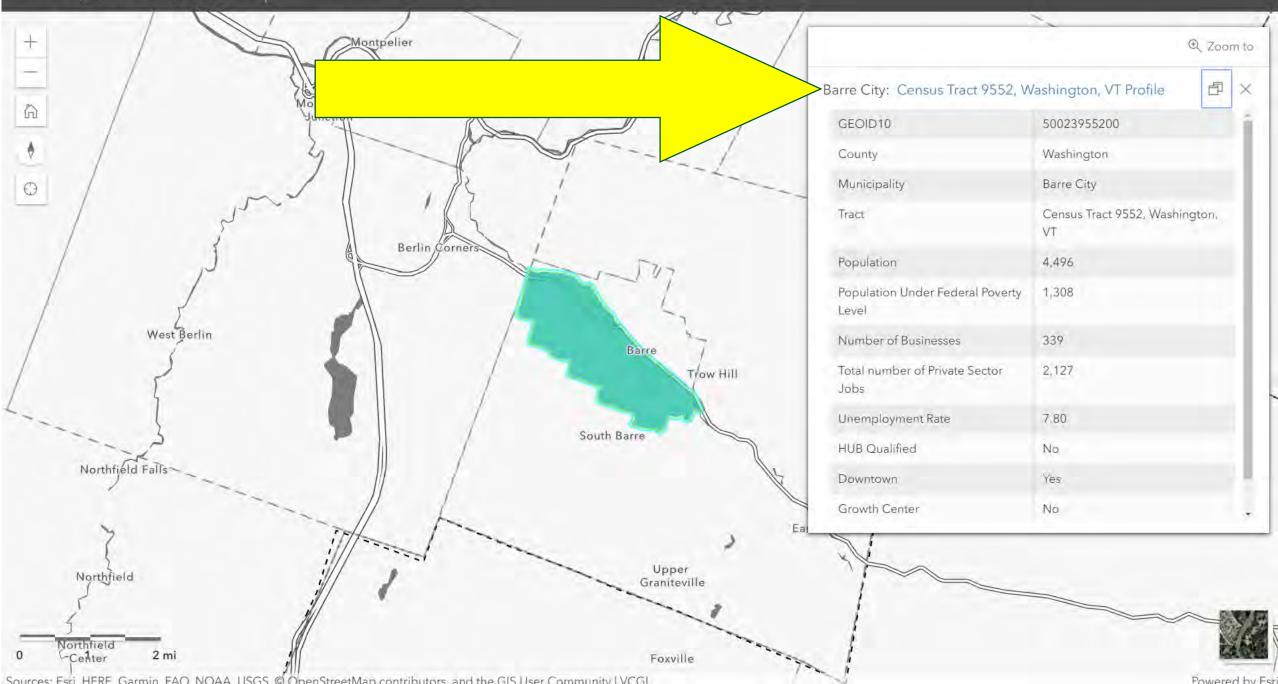


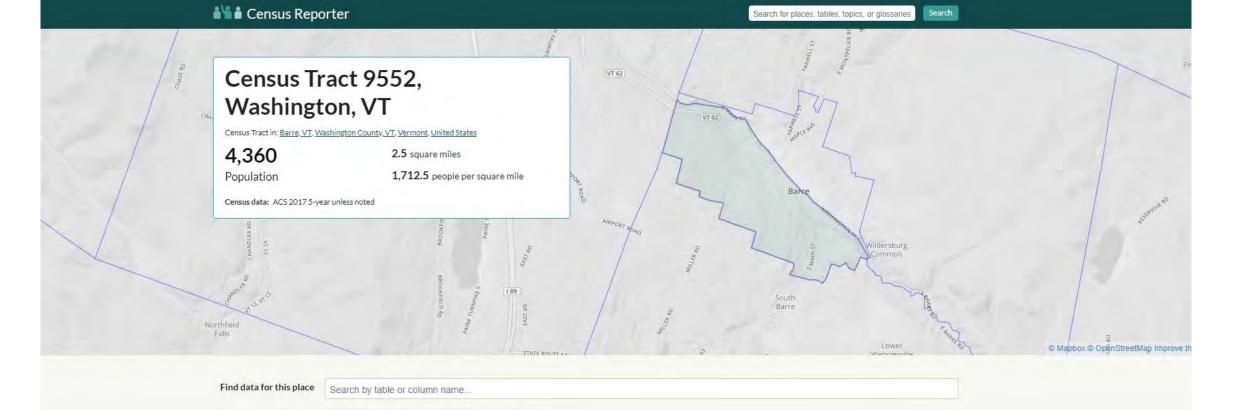
#### **Opportunity Zones** Ξ State of Vermont



#### **Opportunity Zones** Ξ State of Vermont

Q









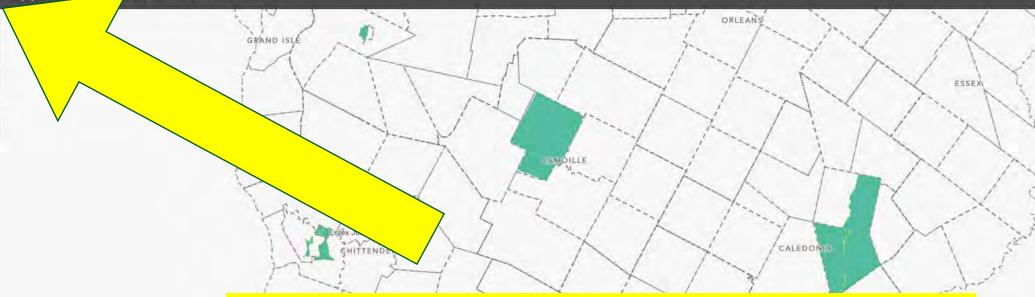
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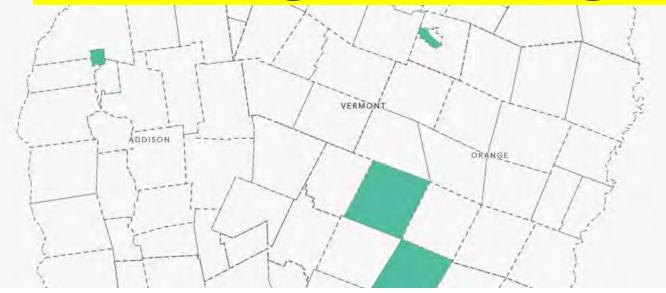
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ESSEX



# Hamburger looking thing



GRAFTON

oz.mapvt.com

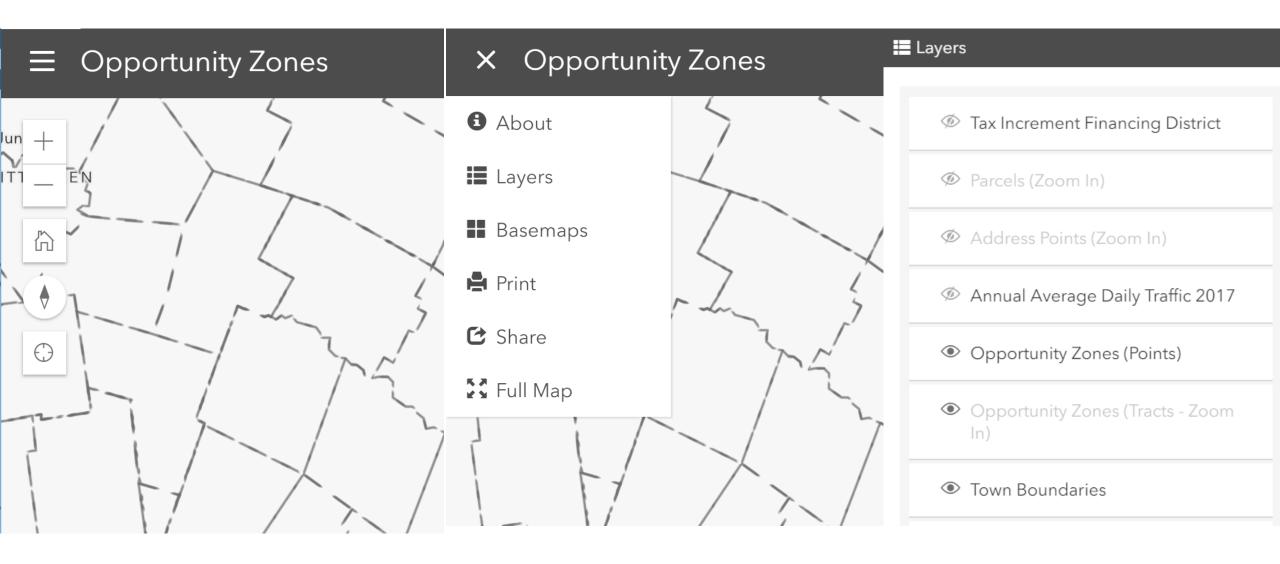
CARROLL

Berlin

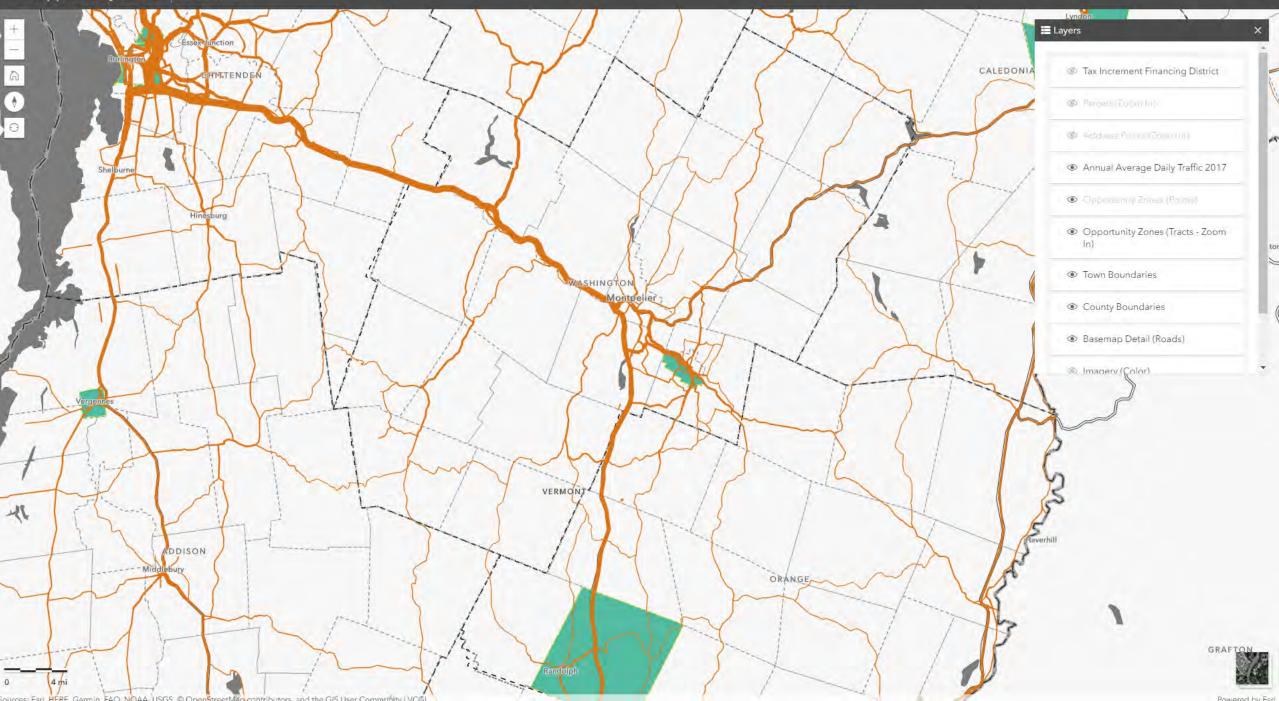


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C005



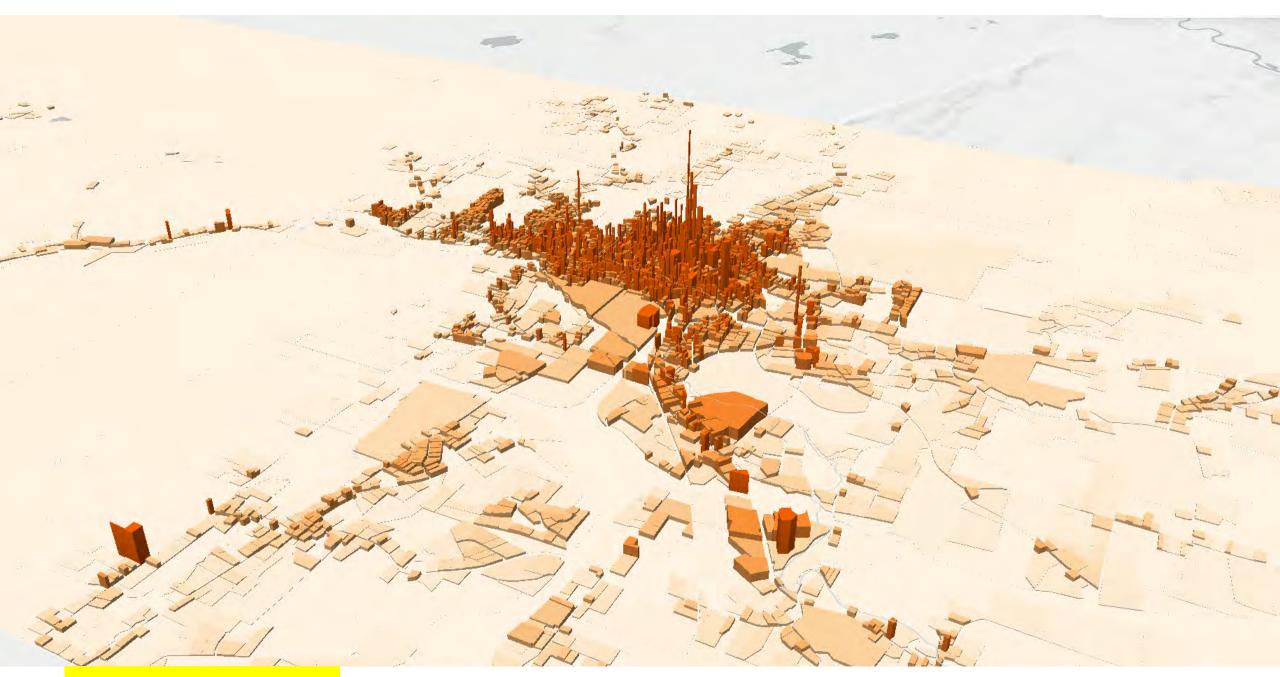
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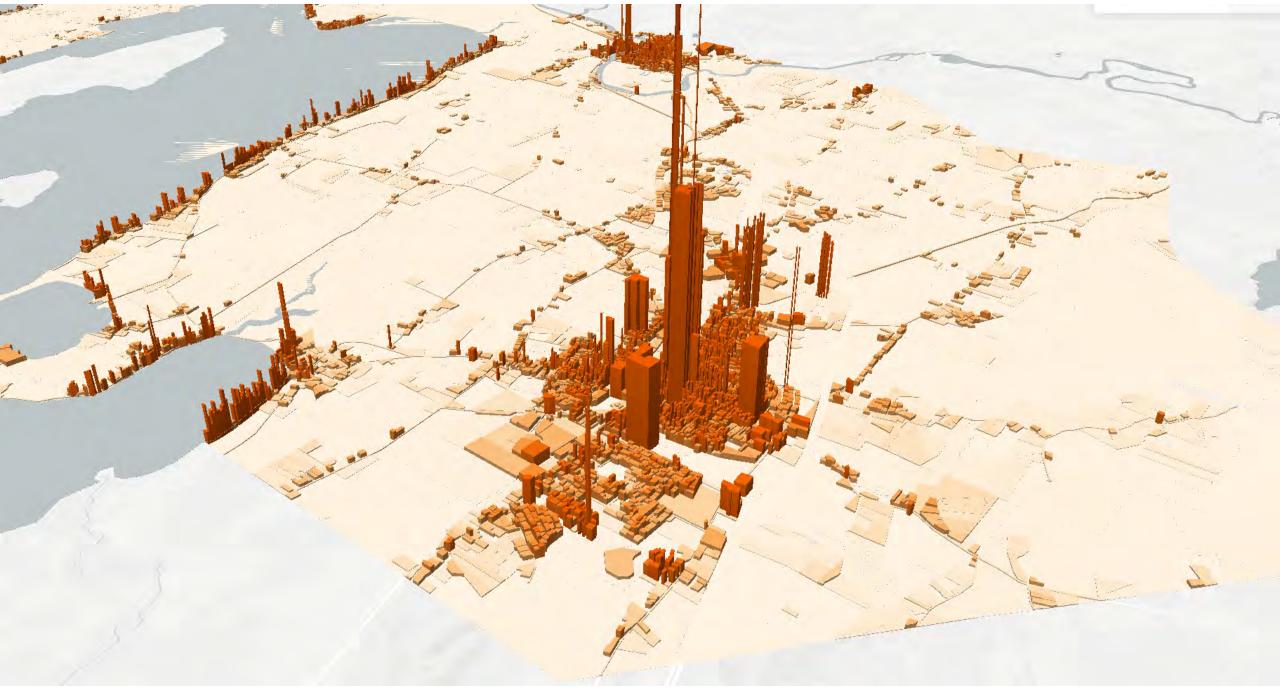


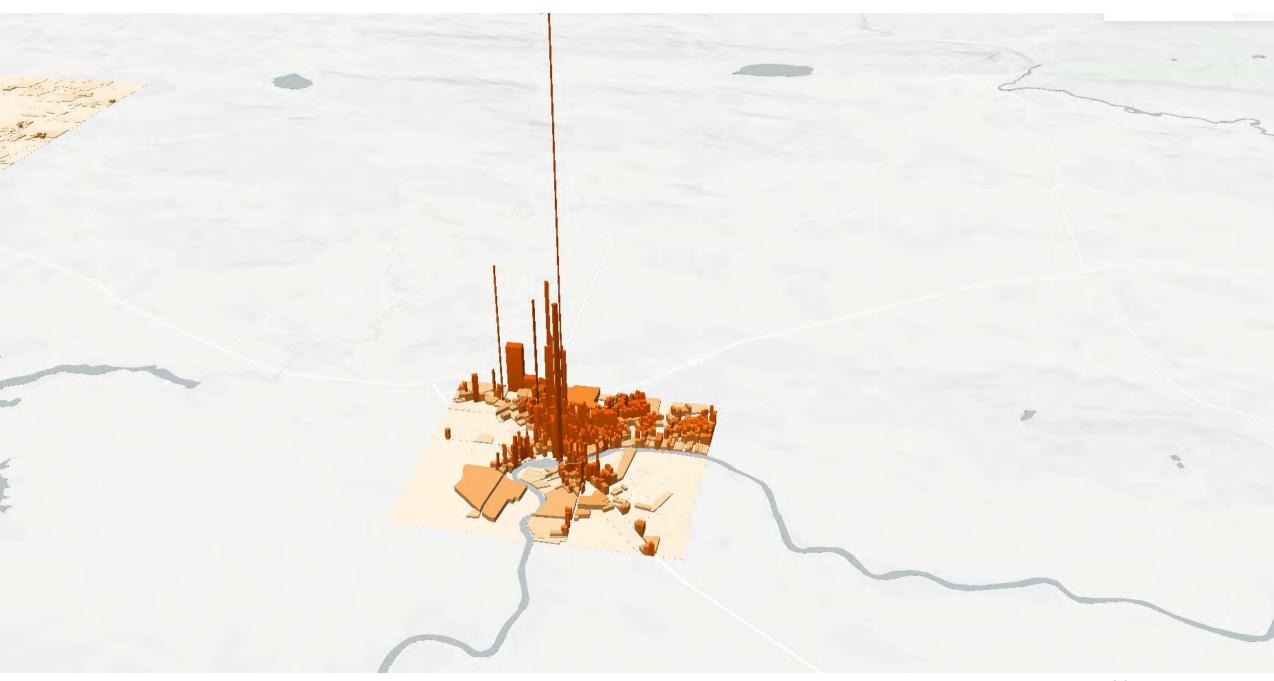
	4 2 of 3 ▷	€ Zoom to				
PARCEL SPAN: 036-011	-10178	百 ×				
TOWN	BARRE CITY					
Category (Real Estate onl	y) Commercial					
Owner Name 1	BARRE HISTORI	BARRE HISTORICAL SOCIETY INC				
Owner Name 2						
Mailing Address 1	PO BOX 496					
Mailing Address 2						
Mailing Address City	BARRE					
Mailing Address State	VT					
Mailing Address Zip	05641-0496					
Property Description	LABOR HALL & INDUSTRIAL-0.4					
Location	GRANITE ST 46	& 48				
Total Acres	0.45					
Listed Real Value (Full)	1,038,500					



vcgi.vermont.gov/parcels

### Bennington





Vergennes

# maps.vermont.gov

VERMONT VERMONT CENTER FOR GEDORAPHIC INFORMATION Home Navigation Data Draw Query Measure

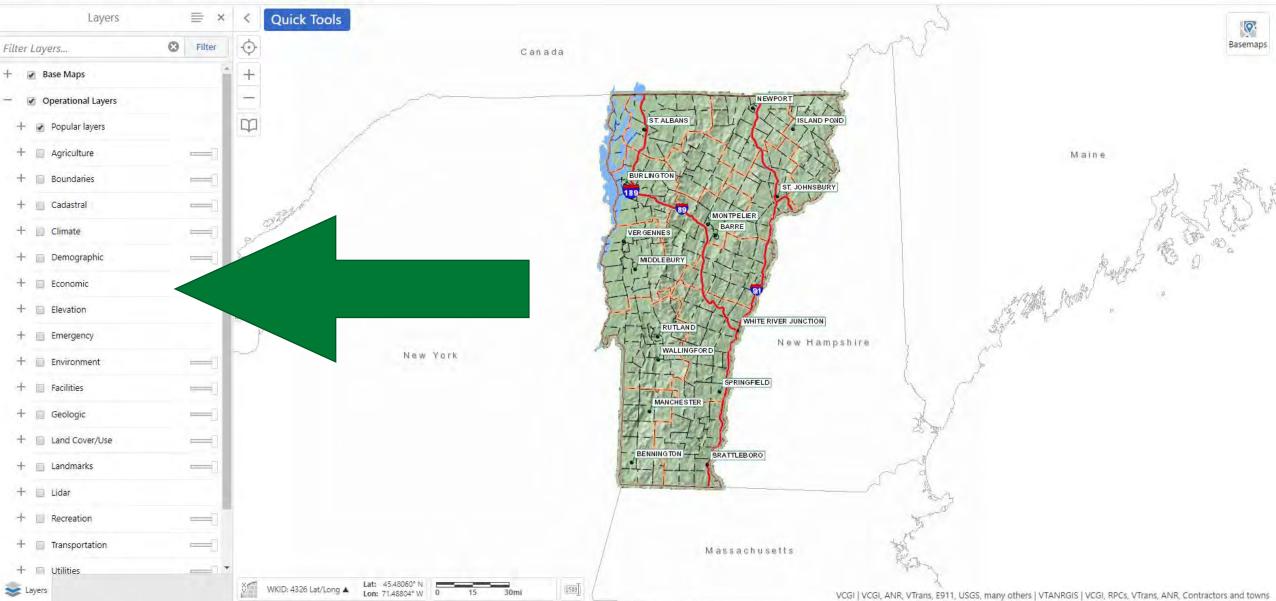
Search...

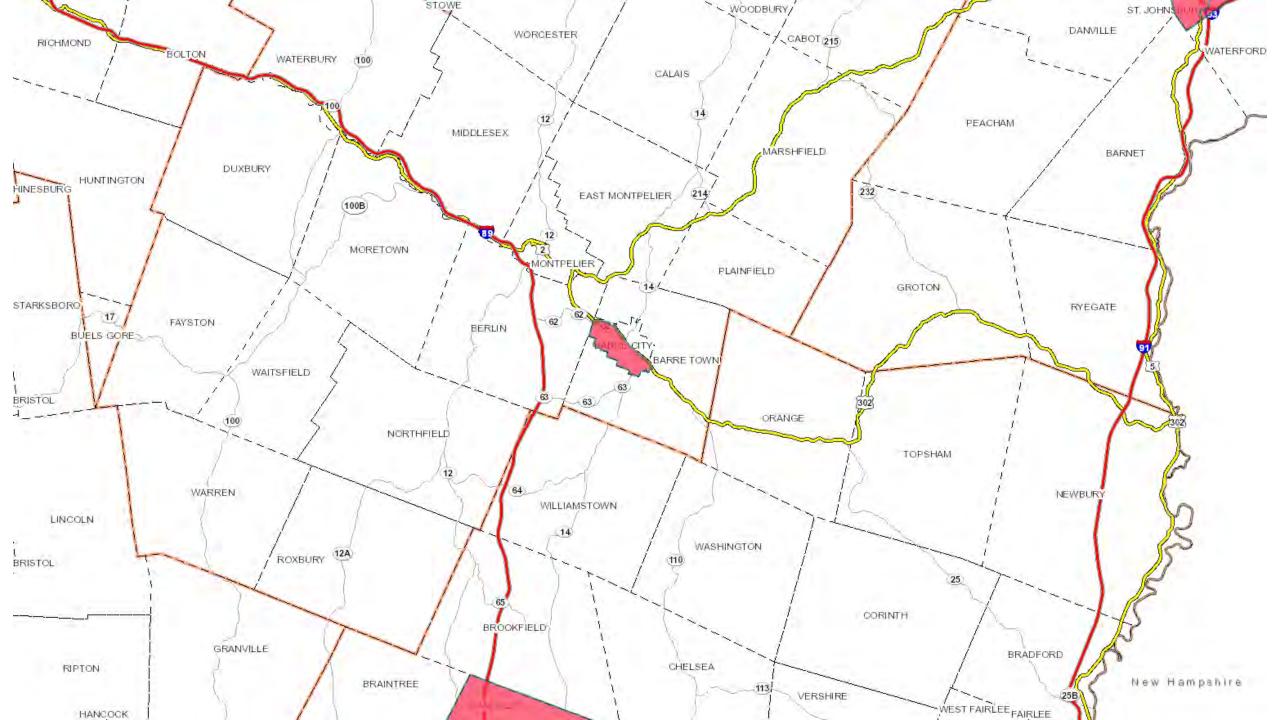
Tool Labels 🗙

Sign in

#### Image: State of the s

Pan Zoom In Zoom Out Zoom to Town Full Extent Plane Sheet Bookmarks. Google Street View





#### Image: Second condition Image: Second

SPAN: 036-011-13336	
Town	BARRE CITY
Parcel Type	PARCEL
Owner Name 1	CITY OF BARRE
Owner Name 2	
Property Description	SAFETY BLDG-4
Category (Real Estate only)	Commercial
Resident Ownership Code	С
Total Acres	4.08
Listed Real Value (Full)	5383300
Listed Value of Land	164300
Listed Value of Improvements	5219000
Last GIS Update:	2018
Last Grand List Update:	2018

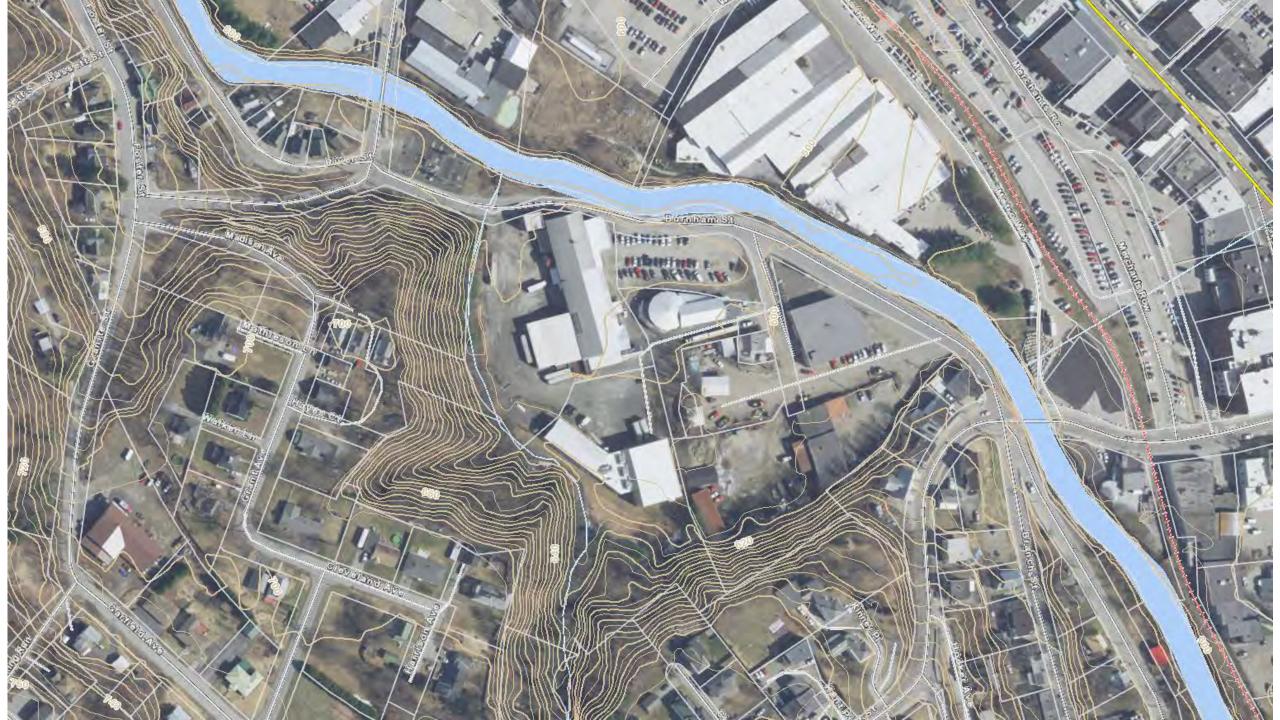
NOTICE: Parcel data is general in nature and does not represent survey grade boundary information. Substantial inaccuracies in boundary lines or grand list attributes should



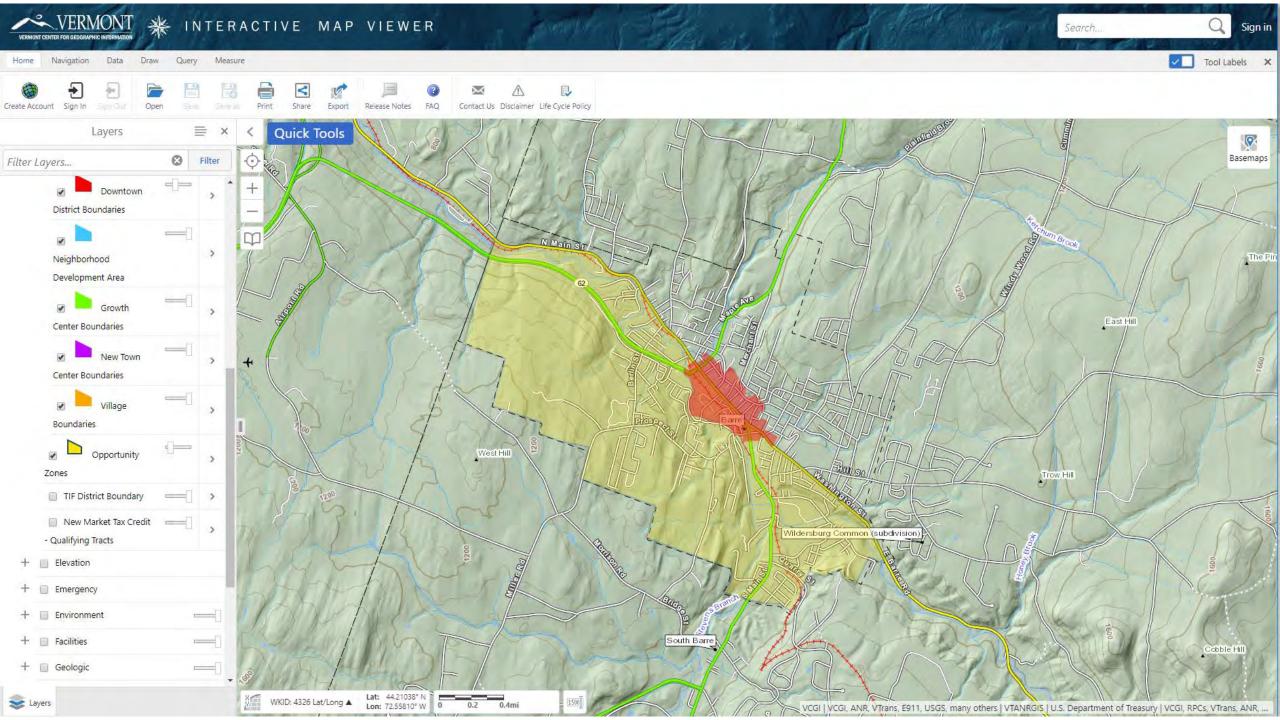
Select Map

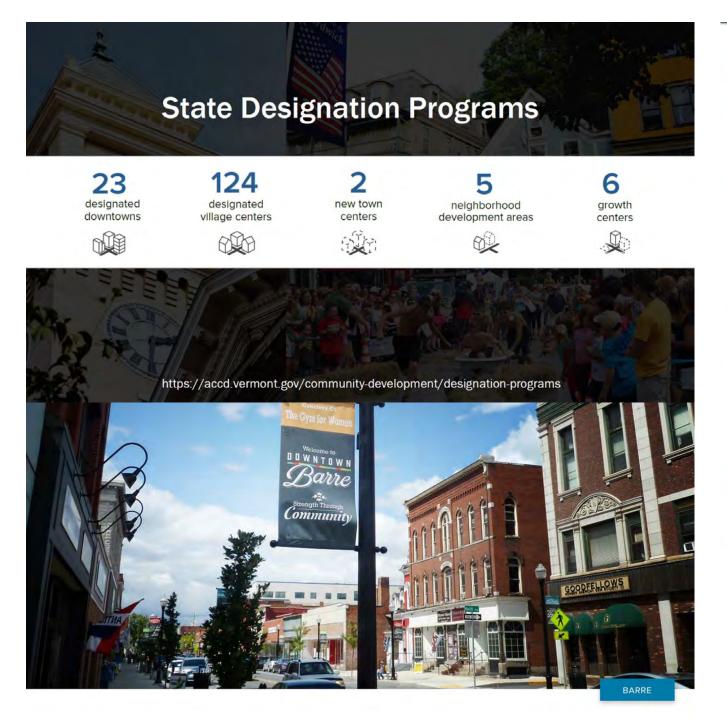


Tool Labels X









State Designation Programs Benefits Overview	DOWN	OWN THE CENT	R NEW TOW	the GROWTH	REAL DEVE
AUTHORITY					
Statute Section (24 V.S.A. Chapter 76A)	2793	2793a	2793b	2793c	2793e
Date Established	1998	2002	2002	2006	2013
PURPOSE					
Historic Preservation*	V	V		V	V
Economic Revitalization*	V	V		V	V
Smart Growth	V	V	V	V	V
Economic Development	V	×	V	V	V
BENEFITS					
10% State Historic Rehabilitation Tax Credit	V	V			
25% Façade Improvement Tax Credit	$\checkmark$	V			
50% Code Improvement Tax Credit	V	V			
50% Technology Tax Credits	V	V			
Downtown Transportation Fund	V				
Sprinkler System Rebate	V				
Special Assessment District	V	V	1		
Reallocation of Sales Tax on Construction Materials	V				
Traffic Calming Options	V				
Signage Options	V				
No appeal of decision on character of neighborhood for housing	V			V	V
Act 250 Threshold for Mixed-Income Housing & Mixed-Use Projects	V		V	V	V
Act 250 Limited Review & Criteria - "Downtown Findings"	1				
Act 250 Findings and Conclusions for Growth Centers				V	
Act 250 Master Plan Permit Application				V	
Act 250 Mitigation for Loss of Primary Agricultural Soils**	V		V	V	V
Act 250 fee reduction					1
Act 250 Existing Settlement under criterion 9(L)	V	V	V	V	V
Exemption from land gains tax					V
ANR Wastewater fee capped at \$50/application					V
PRIORITY CONSIDERATION***					
All State Agencies and Funding Programs - first priority	1	V			
Specific State Agencies and Funding Programs:					
Municipal Planning Grants	V	V		V.	V
Bike/Ped and Transportation Alternatives Grants	V	V		V	V
Property Assessment Fund (Contaminated Sites / Brownfields)	V	V		V	V
Community Development Block Grants	Ń	×		V	V
ANR Wastewater funding	V	V		V	
State affordable housing funds	V	V		V	V
Locating State Buildings	V	V	V	$\checkmark$	
May not apply to all growth centers.					
	and the second second	Contraction of the		and the second second	Table in

"'Agricultural soil mitigation benefits apply to designated neighborhood development areas only when they are associated with a designated downtown and applies only to new town centers created before 1/1/14.

\*\*\*Statute establishes that designated downtowns and village centers should have greater priority for state funding and programs than new town centers and growth centers. (24 V.S.A. §2790(d) and 24 V.S.A. §2793c(i)(2)(A))

#### For more information, please contact:

Chris Cochran: chris.cochran@vermont.gov or 802.595.5410 Website: http://accd.vermont.gov/community-development/designation-programs



0.0

# The Big Dig



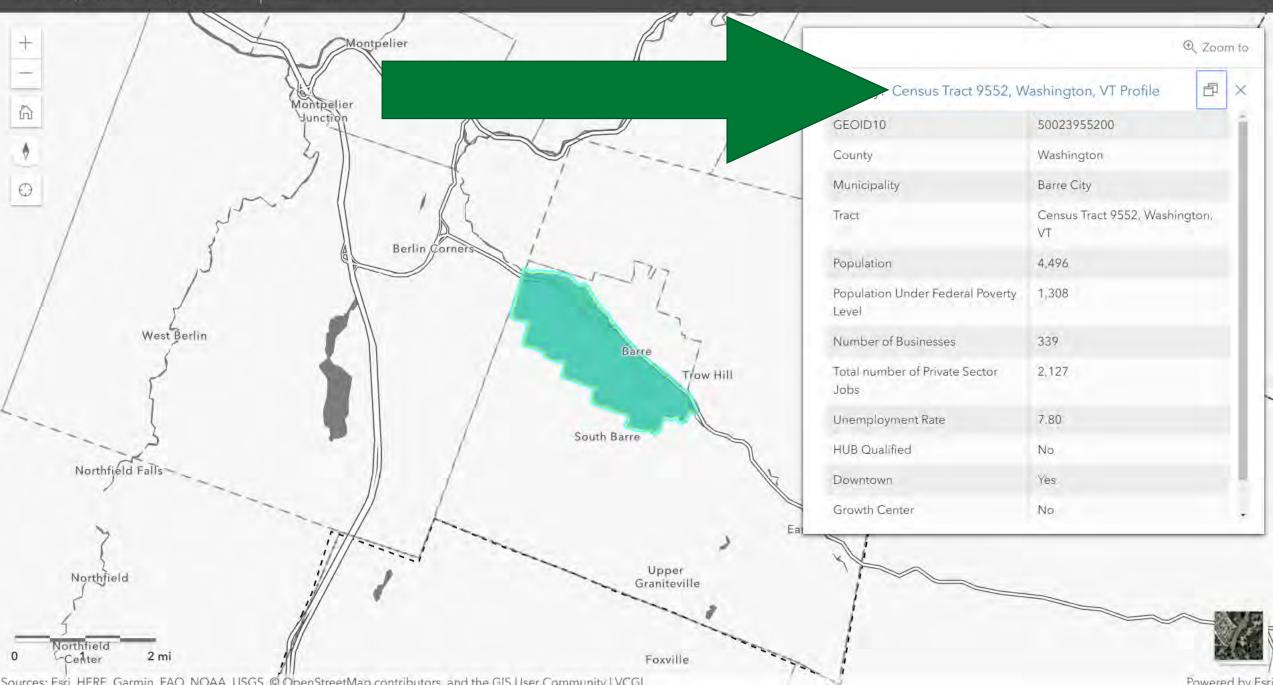


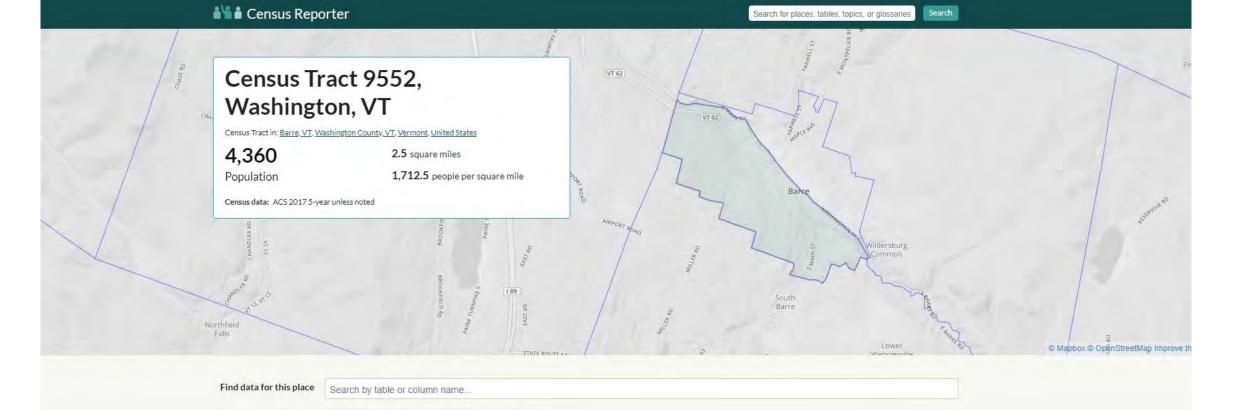




# censusreporter.org

#### **Opportunity Zones** Ξ State of Vermont



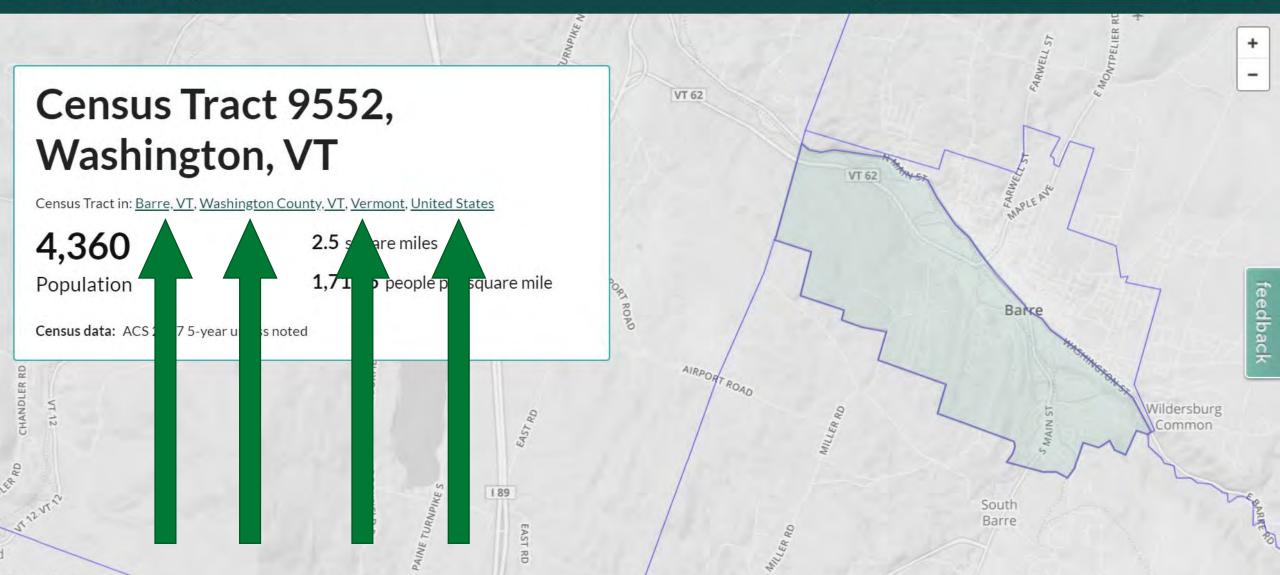






## Census Reporter

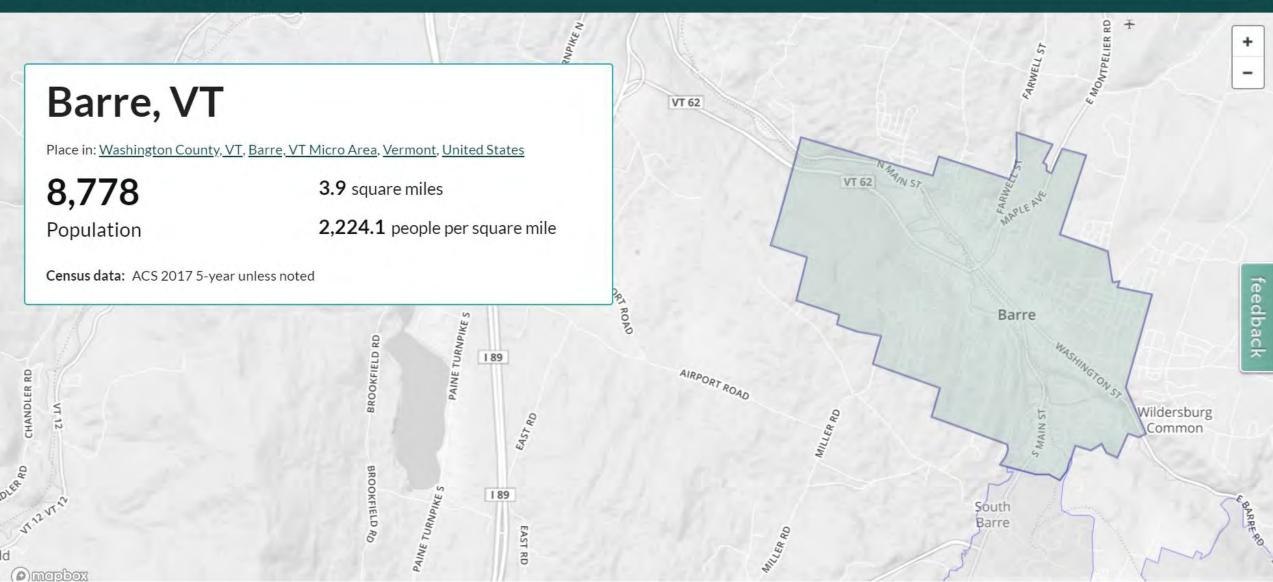
Search for places, tables, topics, or glossaries Search

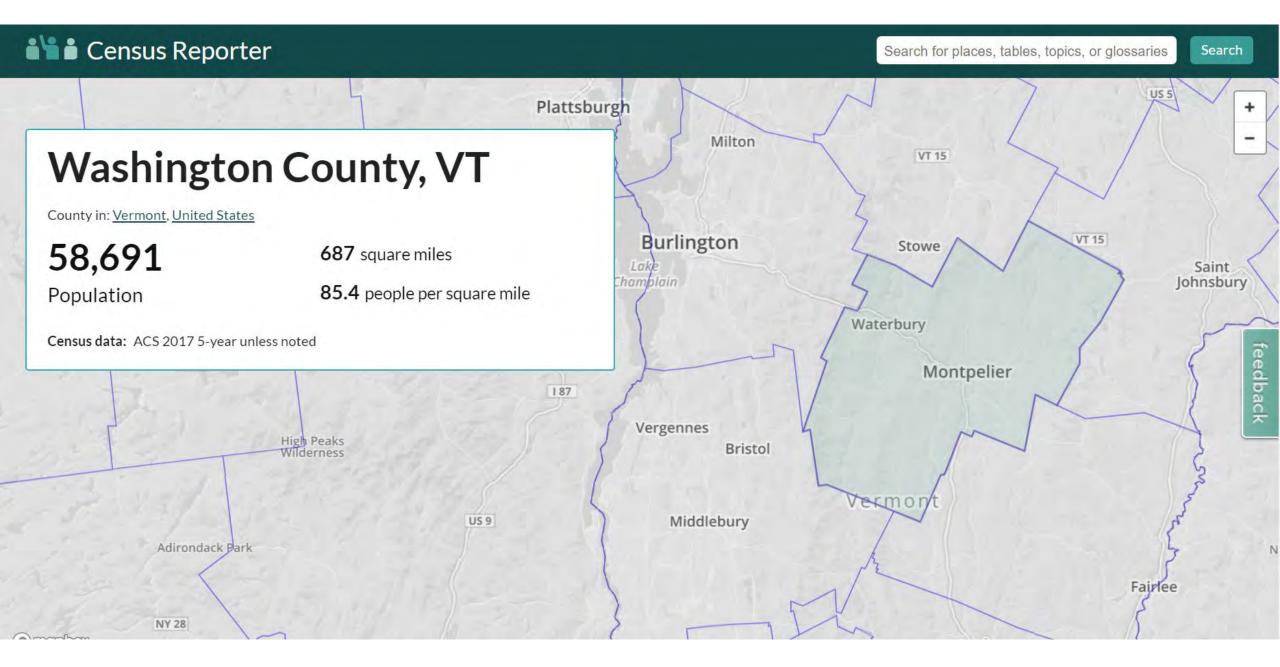


### Census Reporter

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Search



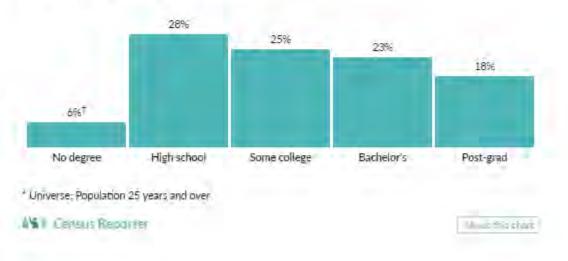


# 40.5%

# Population with bachelor's degree or higher.

About 1.3 times the rate in United States: 30.9%

Washington County, VT Population by minimum level of education



### Census Reporter

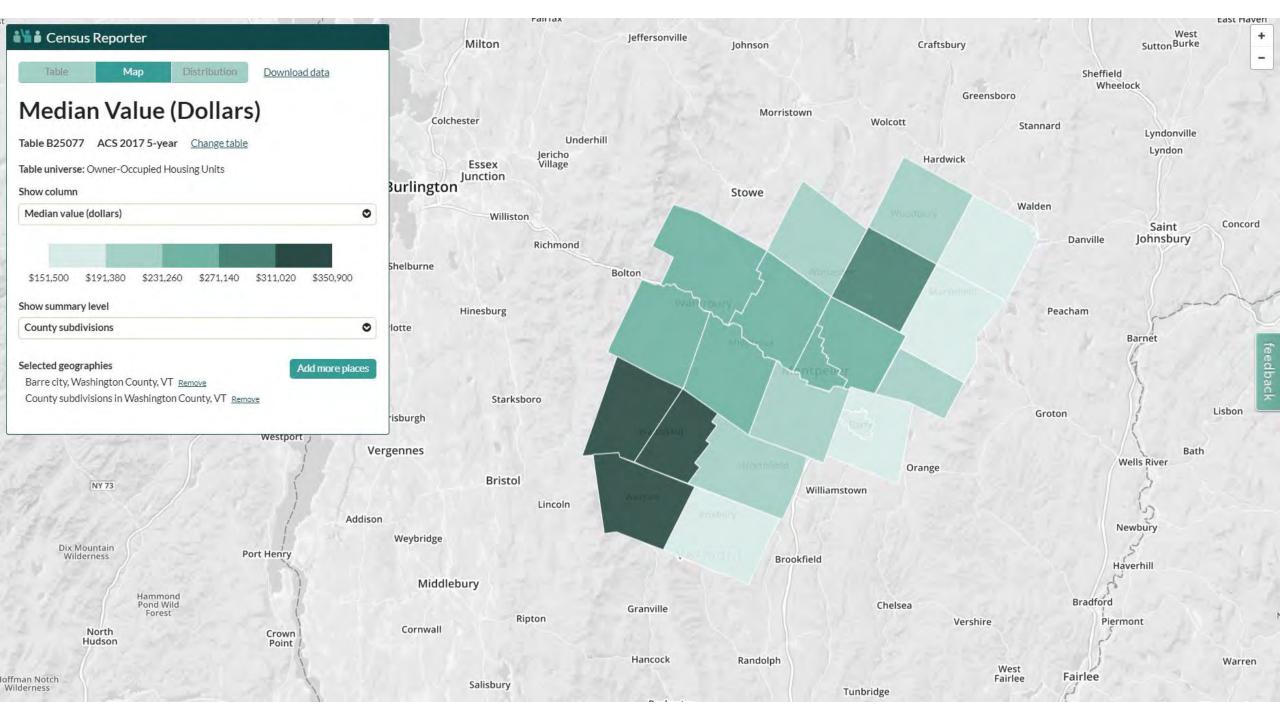
Median Value (	Dollars)		Table	Мар	Distribution	Download data
Table B25077 Change	ACS 2017 5-year					
Table B25077 Change   Add data for more places below; visualize or download this data with controls at right. Selected geographies   Selected geographies Barre city, Washington County, VT   Add a geography Find a place   Add all county subdivisions in Washington County, VT   Washington County, VT Vermont   United States Divide Barre city, Washington County, VT into	ACS 2017 5-year Table universe: Owner-Occupied Housing Units Column → Barre city, Washington County, VT Median value (dollars) \$151,500 ±\$7,677				Clic	k a row to highligh
census tracts block groups places native areas metro areas congressional districts state houses (upper) state houses (lower) ZIP codes school districts (elementary) school districts (secondary) school districts (unified)						

#### Census Reporter Search for places, tables, topics, or glossaries Search Median Value (Dollars) Map Distribution Download data Table B25077 ACS 2017 5-year Change Charts show how data in Table universe: Owner-Occupied Housing Units Find Barre city, Washington County, VT 7 this table is distribute ' helping identify patte: Barre city, Washington County, VT clusters and outliers. lars) \$151,500 ±\$7,677 can click a point to loc and unlock display. 0 0 0 0 0 0 0 00 0 00 0 00 Selected geographies Min: \$151.500 Median: \$226,100 Max: \$350,900 Barre city, Washington County, VT Remove

#### Census Reporter Search for places, tables, topics, or glossaries Search Median Value (Dollars) Map Distribution Download data Table B25077 ACS 2017 5-year Change Find Barre city, Washington County, VT Charts show how data in Table universe: Owner-Occupied Housing Units . this table is distribute Barre city, Washington County, helping identify patte: VT clusters and outliers. lars) \$151.500 ±\$7.677 can click a point to loc and unlock display. 0 00 0 00 00 -0-00 Selected geographies Min: \$151.500 Median: \$226,100 Max: \$350,900 Barre city, Washington County, VT Remove Median Value (Dollars) Map Distribution Download data Table B25077 ACS 2017 5-year Change Find Select a geography NYC-Brooklyn Community Charts show how data in Table universe: Owner-Occupied Housing Units NYC-Brooklyn Community District 6--Park Slope, Carroll this table is distribute helping identify patte: Barre city, Washington County, District 1--Greenpoint & Gardens & Red Hook PUMA. Williamsburg PUMA, NY Portsmouth, NH VT Seattle, WA NY clusters and outliers. ars) \$151,500 ±\$7,677 \$373,000 ±\$10.639 \$537,800 ±\$5,503 \$830,400 ±\$40,039 \$1.092.200 ±\$34,300 can click a point to loc and unlock display. 00000000000 000 Selected geographies Min: \$151,500 Max: \$1.092.200

Boston, MA <u>Remove</u> Portsmouth, NH <u>Remove</u> Seattle, WA <u>Remove</u> Median: \$254.000

U.S. Census Bureau (2013-2017). Median Value (Dollars) American Community Survey 5-year estimates.



## ATLAS OF RURAL AND SMALL-TOWN AMERICA

United States Department of Agriculture Economic Research Service LONGITUDINAL Employer-Household Dynamics

Census Center for Economic Studies VERMONT FUTURES PROJECT

Vermont Chamber Foundation

BUREAU OF ECONOMIC ANALYSIS

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