

ORTHOPHOTOGRAPHY ACQUISITION

HOUSE COMMITTEE ON CORRECTIONS & INSTITUTIONS

FEBRUARY 12, 2019

JOHN E. ADAMS





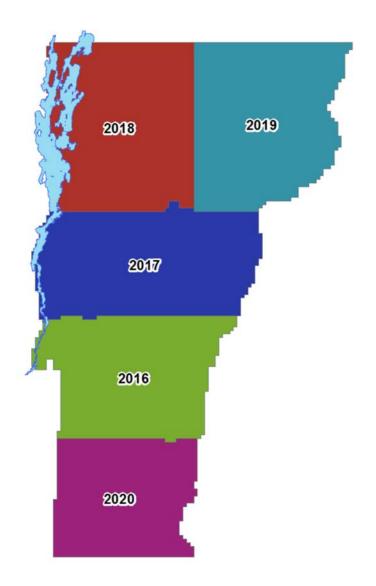
Orthophotographic Imagery

2016-2020 ACQUISITION PLAN

Annual request of \$125k

SPECIFICATIONS

- Color and Infrared
- Leaf-Off, No Snow, No Clouds
- Accuracy within 73.4cm meeting NSSDA accuracy
- 30cm resolution (15cm targeted area)
- Independent QA/QC



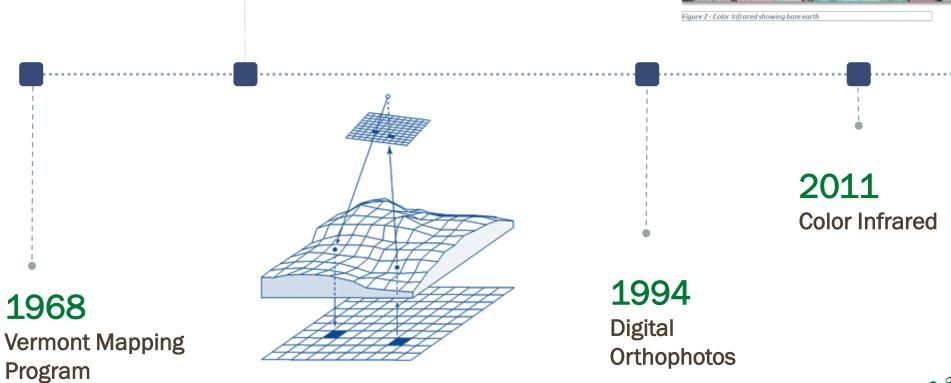


History of Orthophotos in Vermont



2016

VCGI Officially takes over duties from Tax Dept



1974

Orthophotographs





50cm resolution



15cm resolution

Availability and Users

AVAILABILITY

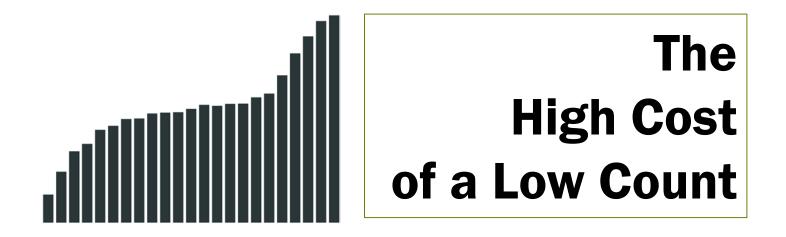
- Free for use by all (including commercial uses)
- Imagery available for download & web service
- Uncompressed available on hard drives
 USERS
- State Agencies (AOT, DPS, Tax, ANR, AHS, E911, PSD, ACCD)
- Municipalities, RPCs and Federal Agencies
- Academia
- Private Sector (Engineers, Surveyors, Foresters, Attorneys, Landscape Architects Ecologists, and many more.)







Use Case: Update of Census Master Address File

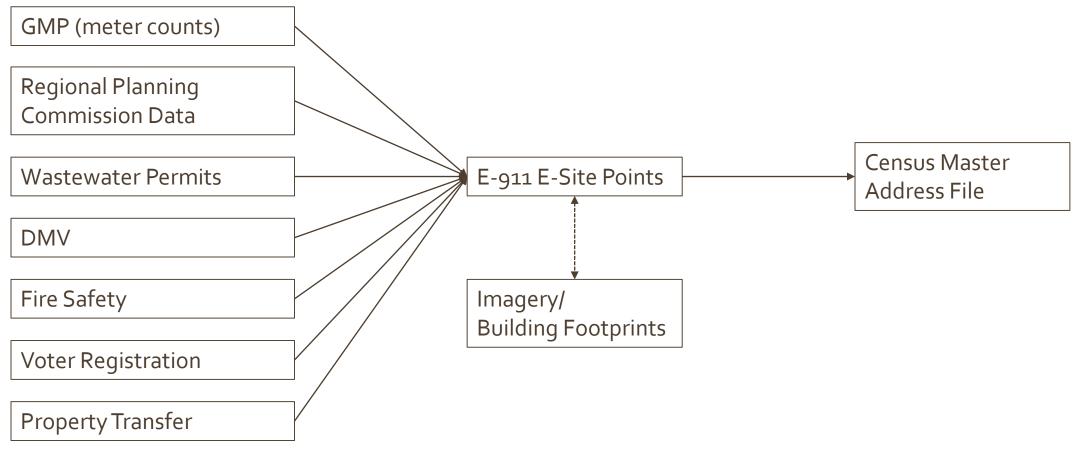


Why counting every person in Census 2020 matters and how we use imagery to help make that happen.



Process

Address Databases



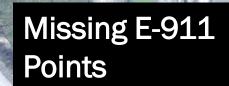


Building Footprint Extraction

Courtesy of UVM Spatial Analysis L







Courtesy of UVM Spatial Analysis Lab

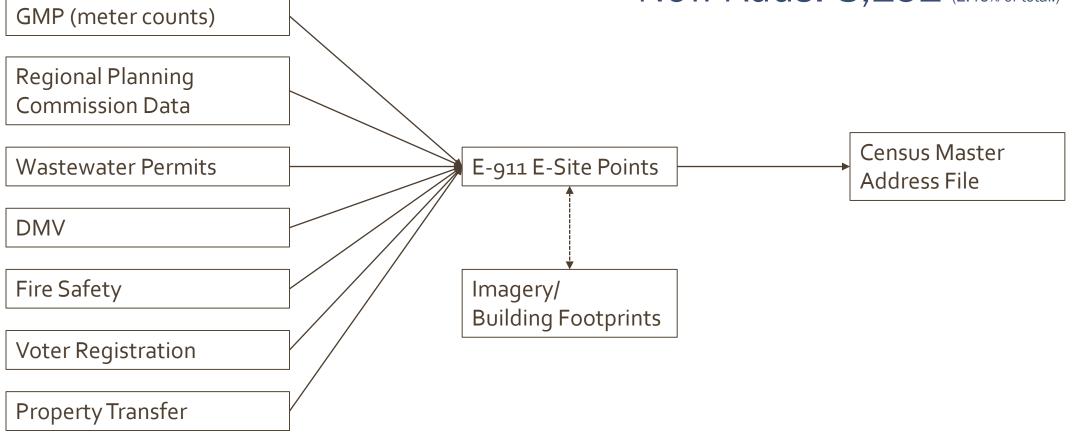
- 1: 9792

Process

Address Databases

Corrections: 8,595 New Adds: 8,151 (2.46% of total.)

VERMONT



Program	Amount
Medicaid	1,083,604,791.00
Highway Planning and Construction	206,395,926.00
SNAP	124,409,407.00
Medicare Part B	102,460,625.00
Section 8 Housing Choice Vouchers	51,055,000.00
Title 1 Grants	33,348,961.00
Section 8 Housing Assistance	27,754,627.00
Special Education Grant	27,076,591.00
Low Income Energy Assistance	18,990,787.00
Health Center Programs	17,800,109.00
Head Start	17,172,180.00
State Childrens Health Insurace	15,584,000.00
National School Lunch Program	15,412,941.00
Supplemental Nutrition Program for Women Infants and Children	13,615,878.00
Foster Care	10,072,000.00
Child Care and Development Fund	6,670,000.00
Total	1,771,423,823.00

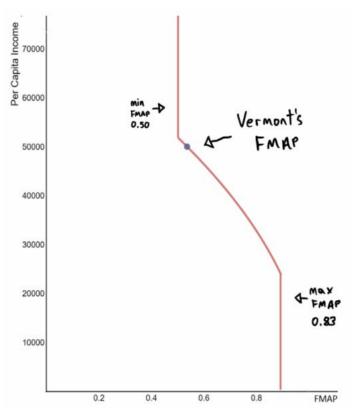
Census Guided Federal Assistance Program Distributions to Vermont (FY15)



Federal Medical Assistance Percentage (FMAP)

U.S. Code > Title 42 > Chapter 7 > Subchapter XIX > § 1396d

$$FMAP = 1.00 - 0.45 \times \left(\frac{StatePCI}{U.S.PCI}\right)$$



State Per Capita Income

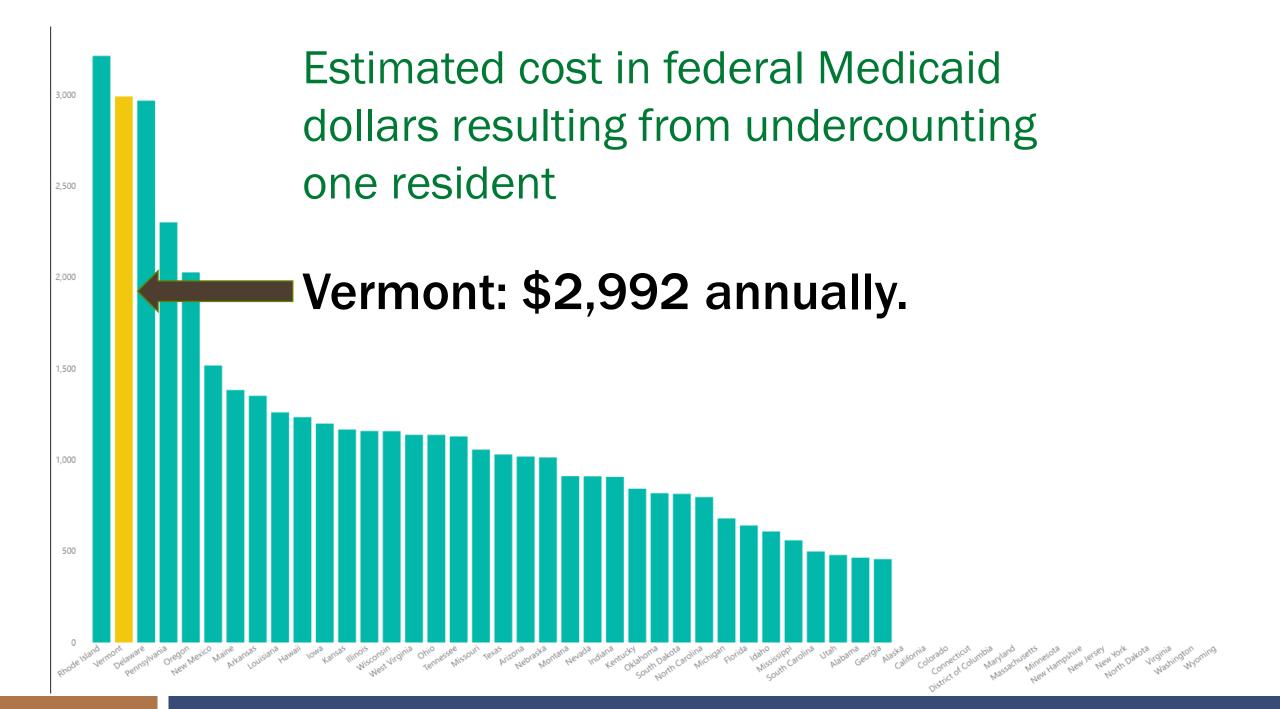
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Population





How much money would undercounting 2% of Vermont's population cost in Medicaid dollars?

\$324 million dollars over ten years.

Read more here: <u>https://arcg.is/1bPDKHo</u>





