



THE VISION AND EYE HEALTH SURVEILLANCE SYSTEM

A national data system for vision and eye health

Understanding and using VEHSS to access vision and eye health prevalence information

John Wittenborn

NORC at the University of Chicago



THE VISION AND EYE HEALTH SURVEILLANCE SYSTEM

A national data system for vision and eye health

- CDC – NORC cooperative agreement



- Partner organizations



What is in VEHSS?

- Summary prevalence estimates of vision and eye health indicators
 - Percentage of persons in a dataset with a condition, divided by the population of people in the data source
- Indicators
 - The outcome measures selected or defined by the VEHSS team that are measured in each data source
- Data Sources
 - Surveys, claims databases and registries selected for analysis
- Composite Estimates
 - Model-based predictions of the total prevalence of conditions the VEHSS team creates by combining prevalence estimates from multiple datasets



What is not in VEHSS

- Person level or micro data
 - National survey micro-data files are available from the government agencies that administers each survey
 - Person-level administrative data (claims and registries) cannot be publicly released
- Highly detailed data, programmatic data, incidence, other outcomes
 - VEHSS is a public health surveillance system with limited scope and resources



VEHSS Indicator Topics

1. Visual function

- Measured visual acuity, including best corrected, presenting, or uncorrected refractive error
- Functional limitations
- Other vision disorders

2. Eye health conditions

- Eye diseases such as glaucoma, cataract, diabetic retinopathy, age related macular degeneration and others

3. Service utilization

- Eye exams, imaging/tests
- Medical procedures, surgeries and drugs
- Glasses, contacts
- Screenings



Data Sources Types

- National telephone surveys
 - National surveys ask questions about vision, eye health conditions and service utilization, like...
 - “Are you blind or do you have serious difficulty seeing even when wearing glasses?”
 - “Do you currently wear eyeglasses or contact lenses? Does [NAME] wear eyeglasses or contact lenses?”
 - “Have you EVER been told by a doctor or other health professional that you had Diabetic retinopathy?”
 - Nationally representative samples with variable recruitment methods, response rates, sample sizes
 - Unknown validity/accuracy of self-report measures



Data Sources Types

- Administrative claims databases
 - Claims contain diagnosis and procedure codes
 - Can identify detailed eye diseases and specific treatments
 - Claims databases are convenience samples
 - Claims are filed by healthcare providers for billing purposes, and may miss
 - Undiagnosed conditions
 - Untreated conditions
 - Conditions treated by other payers, or out of pocket
 - Any person who is not a member, customer or beneficiary of that insurer
 - All uninsured persons



Data Sources Types

- Electronic health records registries
 - EHR systems and registries have detailed records of diagnoses, procedures and best corrected acuity
 - VEHSS includes the IRIS Registry that includes >95% of US ophthalmology practices
 - IRIS Registry captures more detailed diagnosis history than claims:
 - Untreated conditions
 - Prior diagnoses
 - IRIS Registry will miss:
 - Undiagnosed conditions
 - Conditions or services provided by emergency depts, general practitioners and most optometrists
 - Denominator includes only patients with visits to an IRIS-participating ophthalmology practice



Data Sources Types

- Examination studies
 - Gold-standard eye examinations to measure vision and identify eye diseases
 - Examinations provided to as many people as possible within a defined population
 - Town, zip code, healthcare facility, mobile clinic
 - Studies may not be representative
 - Small, locally-derived samples
 - Most studies are now old, predating major changes in eye care



Current Data Sources in VEHSS

National surveys	
ACS	American Community Survey (National, state, county)
BRFSS	Behavioral Risk Factors Surveillance System (National, state)
NHIS	National Health Interview Survey (National)
NHANES	National Health and Nutrition Examination Survey (National)
NSCH	National Survey of Children's Health (National, state).
Administrative claims	
Commercial Medical Insurance	MarketScan private commercial medical insurance (National, state; ~50% private insurance market coverage)
Medicaid	Medicaid MAX, TMSIS coming soon (National, state, county coming soon; 100% coverage)
Medicare	Medicare Fee-For-Service (National, state, county; 100% coverage)
Managed Vision Care	VSP Global managed vision plan insurance (National, state, ~60% vision insurance market coverage)
EHR/Registry	
IRIS Registry	IRIS Registry (National, state, county coming 2022; 95%+ ophthalmology practice coverage)
Examination Studies	
Published examination studies	Literature review of published studies, meta-analyses of selected studies for composite estimates



Composite Estimates

- No single indicator can answer general questions like “how many people in the US are blind?”
- Integrating information from different indicators and data sources can produce more comprehensive estimates
 - Visual Acuity Loss released in May 2021
 - AMD, diabetic retinopathy and glaucoma in-progress



Data Sources vs. Composite Estimates

Data Sources (survey, claims, registry data)	Composite Estimates
VEHSS summarizes prevalence information from 10 data sources, including on:	VEHSS creates composite estimates by combining information from multiple datasets from different types of data
<ul style="list-style-type: none">• 200+ indicators• More granularity and detail• More limitations and caveats to their interpretation	<ul style="list-style-type: none">• The primary estimates available in VEHSS• Less detail• Fewer caveats or limitations to their interpretation





THE VISION AND EYE HEALTH SURVEILLANCE SYSTEM

A national data system for vision and eye health

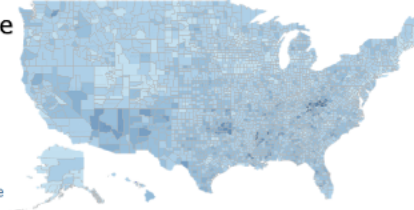
VEHSS Website

VISION & EYE HEALTH SURVEILLANCE SYSTEM

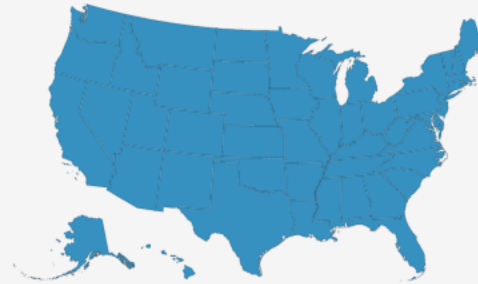
Now Available: Composite Estimates of the Prevalence of Vision Loss and Blindness

VEHSS integrates multiple data sources into composite estimates of the prevalence of vision loss and blindness.

[Click for more information and to explore the estimates.](#)



Explore VEHSS Data for One Location



Territories [GU](#) [MH](#) [MP](#) [PR](#) [VI](#)

Select an Item

[National Data](#)

Composite Estimates

[VEHSS Integrated Prevalence Estimates](#)

Data Sources

[Review of Examination-Based Studies](#)

A review of published examination studies on vision loss and major eye disorders

[National and State Surveys](#)

Nationally representative survey indicators for vision and eye health

[Electronic Health Records Registries](#)

Vision, eye health, and healthcare services data extracted from medical records

[Administrative Claims Databases](#)

Medical services and treated eye health conditions

Explore VEHSS Data for All Locations

Type

Claims Database

Topic

Category

Indicator

About VEHSS

[Project Overview](#)

[Reports and Papers](#)

[Data Indicators \(Case Definitions\)](#)

[Help](#)

Use the Data Portal

Need to work with the Vision & Eye Health data directly?

Go to the Vision & Eye Health Data Portal to create your own filtered dataset, customize visualizations, download data, and more.

[Vision & Eye Health Data Portal](#)

Quick access
to the
Composite
Estimates

Location Explorer:
shows all data
available for a
state or national
location

Data
Documentation

Data Explorer:
shows all data
available for any
location

Indicator
Documentation and
Help pages

Access the data portal for
back-end data access, PUFs
and APIs

Data Documentation Pages

Data overview

Analytic methods

Indicators analyzed

Limitations

VEHSS Data access

VEHSS Data Portal PUF access

PDF reports

Vision and Eye Health Surveillance System (VEHSS)

Vision Health Initiative > VEHSS Home > Information on Data Sources > Administrative Claims Records

- VEHSS Home
- Project Description
- Case Definitions & Data Indicators
- Information on Data Sources**
 - National Surveys
 - Examination-Based Studies
 - Electronic Health Records and Registries
 - Administrative Claims Records**
 - Medicare**
 - Medicaid
 - MarketScan
 - VSP Global
 - Military
- Reports and Publications
- Prevalence Estimates
- Help

Get Email Updates

To receive email updates about diabetes and vision topics, enter your email address:

Email Address

Medicare

Medicare Claims at a Glance

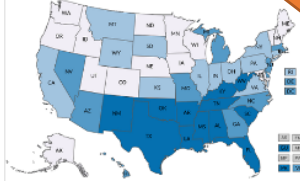
	Medicare Part B Fee for Service Claims
Data type	100% Medicare Part B Fee for Service Medical claims
Sample	Convenience sample of Medicare beneficiaries, including nearly 89% of the US population aged 65 years and older, as well as 3.3% of the US population younger than 65, including persons disabled due to blindness
VEHSS Topics Included	Service Utilization Eye Health Conditions
Years Analyzed	2014, 2015, 2016, 2017
Approximate Size	30 million persons per year

The analysis of Medicare claims for the Vision and Eye Health Surveillance System (VEHSS) includes beneficiaries who were fully enrolled in Medicare Part B Fee-for-Service (FFS) for the duration of 2014, 2015, 2016, or 2017.

Medicare claims represent a convenience sample that includes approximately 30 million individuals annually. Data from patients enrolled in Medicare managed-care plans were not included, as these plans do not include individualized claims for services. In 2018, 2.2 million Americans were enrolled in Medicare advantage plans.

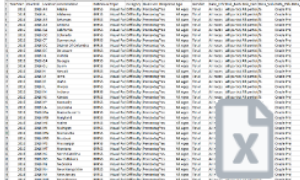
Medicare covers ophthalmologic services for nearly the entire US population aged 65 and older, for people younger than 65 who have received social security benefits as a result of disability for 24 months; for people who have end stage renal disease and receive dialysis or a kidney transplant; and for people who have amyotrophic lateral sclerosis (ALS). Like others with a disability, people with US defined blindness (a best corrected acuity of 20/200 or worse in the better-seeing eye) become eligible for Medicare after 24 months of social security enrollment. In 2015, approximately 42.5 million out of 47.8 million Americans aged 65 and older (88.9%) were enrolled in Medicare Part B (which covers outpatient services).¹⁴ Because of this high coverage rate, those enrolled are roughly representative of the overall population aged 65 and older. In contrast, only 9 million out of 273.6 million Americans aged 0 to 64 (3.3%) were enrolled in Medicare, and because these

Explore Summary Data



Medicare Claims

Download Summary Data



Medicare Claims

Download the full Medicare Data Documentation Report [PDF - 1.5 MB]
[PDF]

Download the Claims and Registry Data Analysis Plan [PDF - 570]

Access data explorer

Data portal

Additional documentation and reports



VEHSS - THE VISION & EYE HEALTH SURVEILLANCE SYSTEM

Indicator Documentation Pages

Overview

Datasets represented

Variables included

Disorders of Optic Nerve and Visual Pathways						+
Disorders of Refraction and Accommodation						+
Glaucoma						-
VEHSS includes indicators for Glaucoma from examination-based data including NHANES and published studies, self-reported diagnosis history from NHANES, treated cases from claims databases, and diagnosed cases from IRIS Registry.						
Examination-based						
Examination-based glaucoma indicates the respondent had graded probably or definite glaucoma in either eye based on retinal imaging.						
Examination Surveys						
Dataset	Description	Variable name(s)	Years available	Years analyzed	Response options	
NHANES	Percentage of people with glaucoma, based on examination	OPASCST2 – Exam status; OPXDGLAU – Glaucoma, right eye; OPXSGLAU – Glaucoma, left eye	2005, 2008	2005, 2008	2 – Probable 3 – Definite	
Published Examination Studies						
Study	Years	Location	Citation			
Eye Diseases Prevalence Research Group (EDPRG)	1985-2000	Multi-national	Friedman DS, Wolfs RC, O'Colmain BE, et al. Prevalence of open-angle glaucoma among adults in the United States. <i>Arch Ophthalmol.</i> 2004;122(4):532–538.			
Los Angeles Latino Eye Study (LALES)	2000-2003	California	Kim E, Varma R. Glaucoma in Latinos/Hispanics. <i>Curr Opin Ophthalmol.</i> 2010;21(2):100–105.			
Salisbury Eye Evaluation Glaucoma Study	2001-2003	Maryland	Friedman DS, Jampel HD, Munoz B, West SK. The Prevalence of Open-Angle Glaucoma Among Blacks and Whites 73 years and Older: The Salisbury Eye Evaluation Glaucoma Study. <i>Arch Ophthalmol.</i> 2006;124(11):1625–1630.			

Click + to open indicator details



VEHSS - THE VISION & EYE HEALTH SURVEILLANCE SYSTEM

1. Selector Box:
Complete all 6
dropdowns and click
GO

1. Location
Georgia

2. Type
Claims

3. Claims Database
Medicare Claims
[Data Source Information](#)

4. Topic
Service Utilization

5. Category
Eye Exams
[Category Definition](#)

6. Indicator
Annual examination rate

GO

Explore VEHSS Data for Georgia

☒ View one year
 ☐ View all available years

Compare variable 1
 Race/Ethnicity

Compare variable 2
 Gender

Compare

Apply Filters

Reset

Year
 2017

Subgroup
 By any provider type

Age Group
 All Ages

Gender
 Compare All

Race/Ethnicity
 Compare All

Risk Factor
 Diabetes

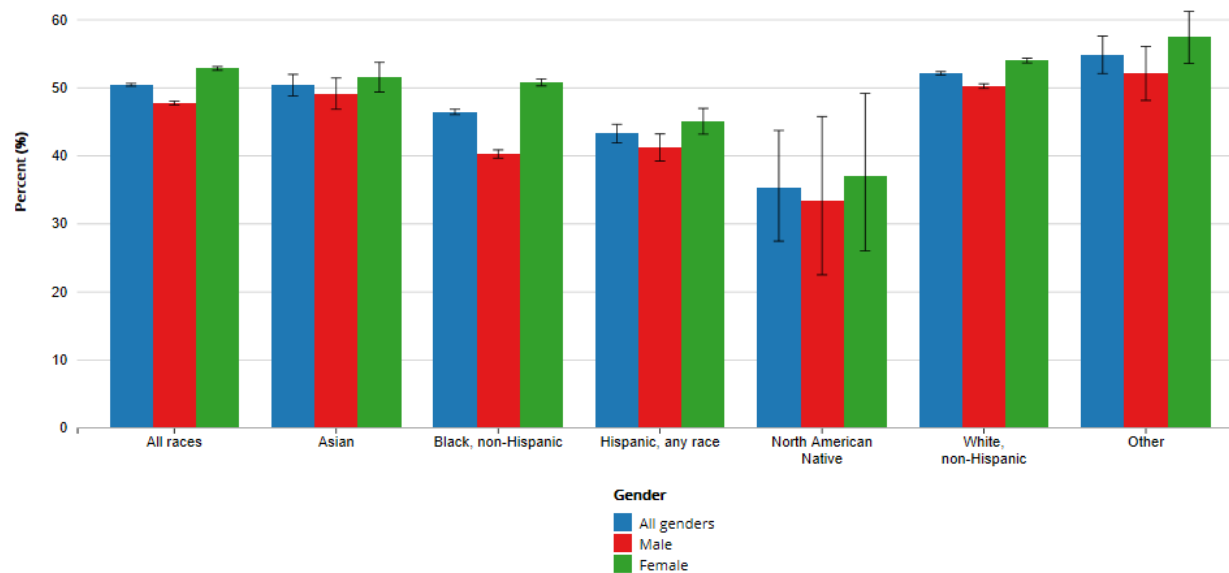
Risk factor response
 Yes

2. Compare Box:
Compare 1-2
stratification factors
and click Compare

3. Filter Box:
Filter data to
selected groups and
click Apply Filters

4. Results Panel

Proportion of patients who had an eye exam in selected year
By any provider type
Georgia | 2017 | Medicare (Fee for Service)
Crude Prevalence
Diabetes-Yes
Compare By: Race/Ethnicity & Gender



	All genders	Male	Female
All races			
Percent (%)	50.37	47.71	52.78



VEHSS - THE VISION & EYE HEALTH SURVEILLANCE SYSTEM

1. Selector Box

Selecting **All available locations** defaults to state level map

Selecting **National** or any state defaults to chart+table with compare box

CDC Centers for Disease Control and Prevention
CDC 24/7: Saving Lives, Protecting People™

Vision and Eye Health Surveillance System (VEHSS)

1. Location
National
All available locations
National
Alabama
Alaska
Arizona
Arkansas
California
Colorado

2. Type
Select one

3. Data Source
Select one
[Data Source Information](#)

4. Category
Select one
[Category Definition](#)

6. Indicator
Select one
GO Clear

Click **Data Source Information** to open documentation page for selected data source

Click **Category Definition** to open documentation page for selected indicator category



VEHSS - THE VISION & EYE HEALTH SURVEILLANCE SYSTEM

2. Compare Box:

Not available in map views

Select all years of data for trend line analyses

3. Filter Box:

Filters get reset when Compare changes

Explore VEHS Data for Georgia

☐ View one year
☒ View all available years

Compare variable 1
Years

Compare variable 2
Diabetes

Compare

Apply Filters

Reset

Year
Compare All

Response
Yes

Age Group
All Ages

Gender
All genders

Race/Ethnicity
All races

Risk Factor
Compare All Diabetes

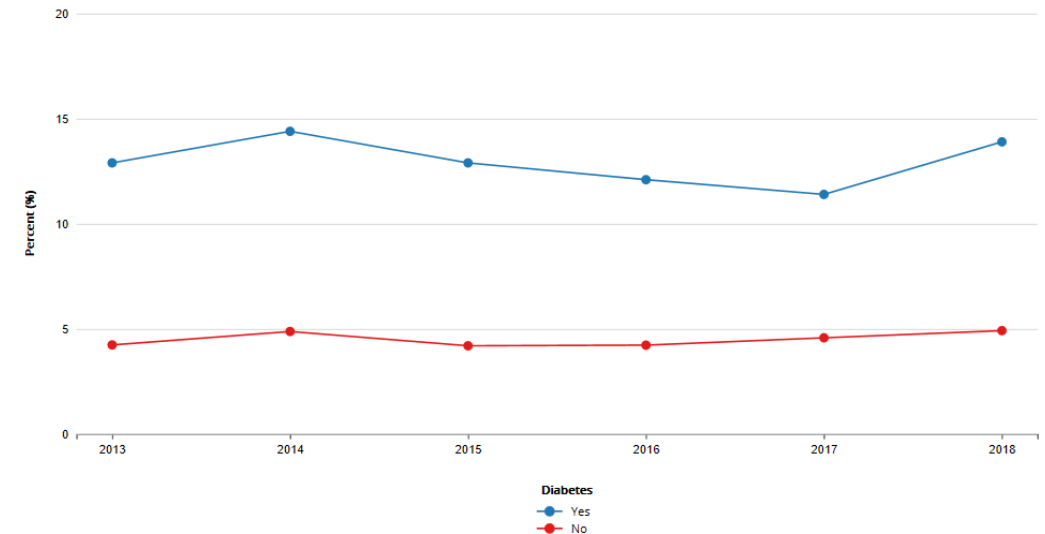
Data Type
Crude Prevalence

Apply Filters

Reset

Percentage of people who are blind or have serious difficulty seeing even when wearing glasses

Response: Yes
Georgia | All Available Years | BRFSS
Crude Prevalence
Compare By: Diabetes

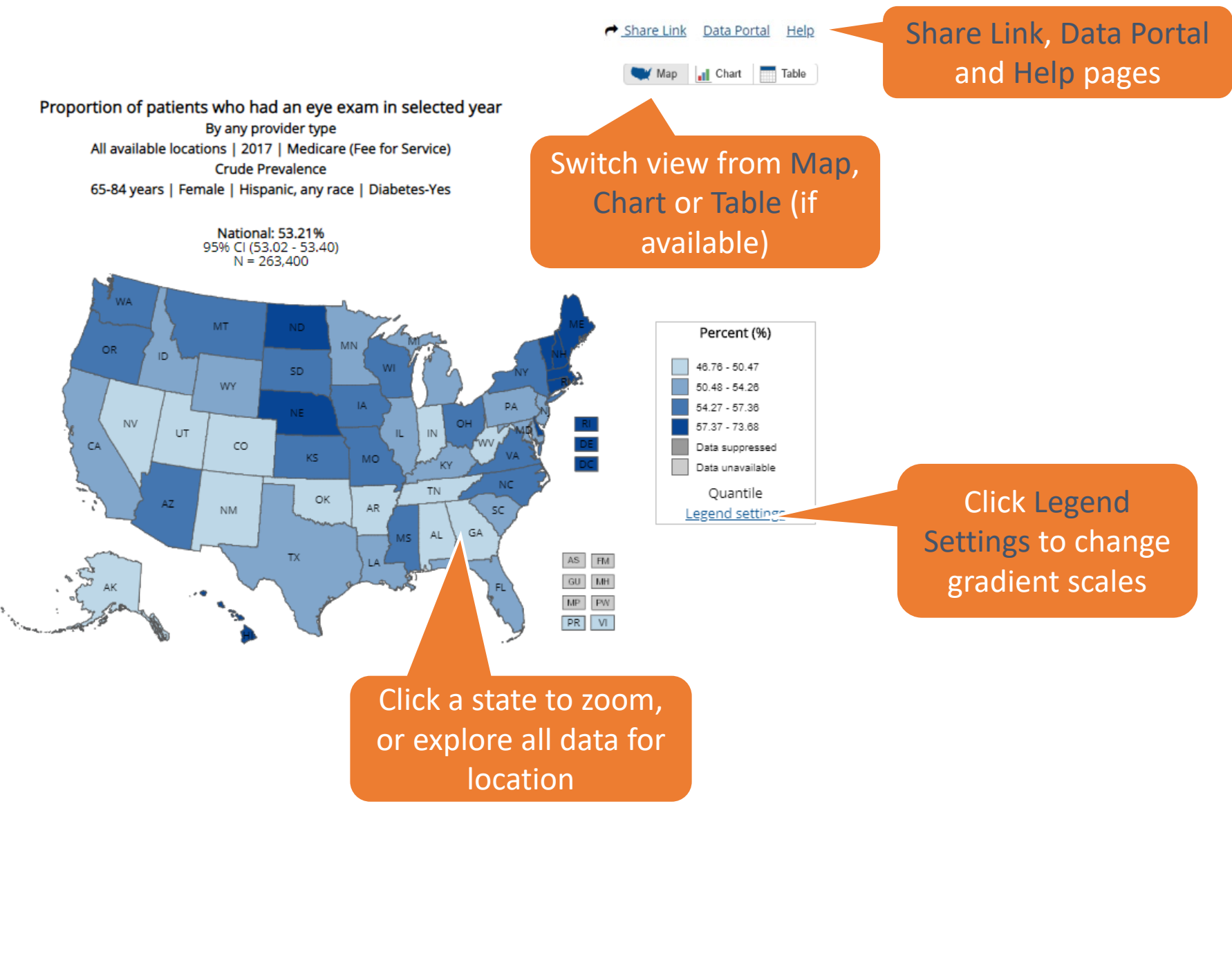


	Yes	No
2018		
Percent (%)	13.90	4.92
95% CI	11.70 - 16.50	4.35 - 5.56
n	136,000	333,000
2017		
Percent (%)	11.40	4.58
95% CI	8.71 - 14.80	3.94 - 5.33
n	99,000	310,000
2016		
Percent (%)	12.10	4.23
95% CI	9.53 - 15.10	3.52 - 5.07
n	111,000	283,000
2015		
Percent (%)	12.90	4.20



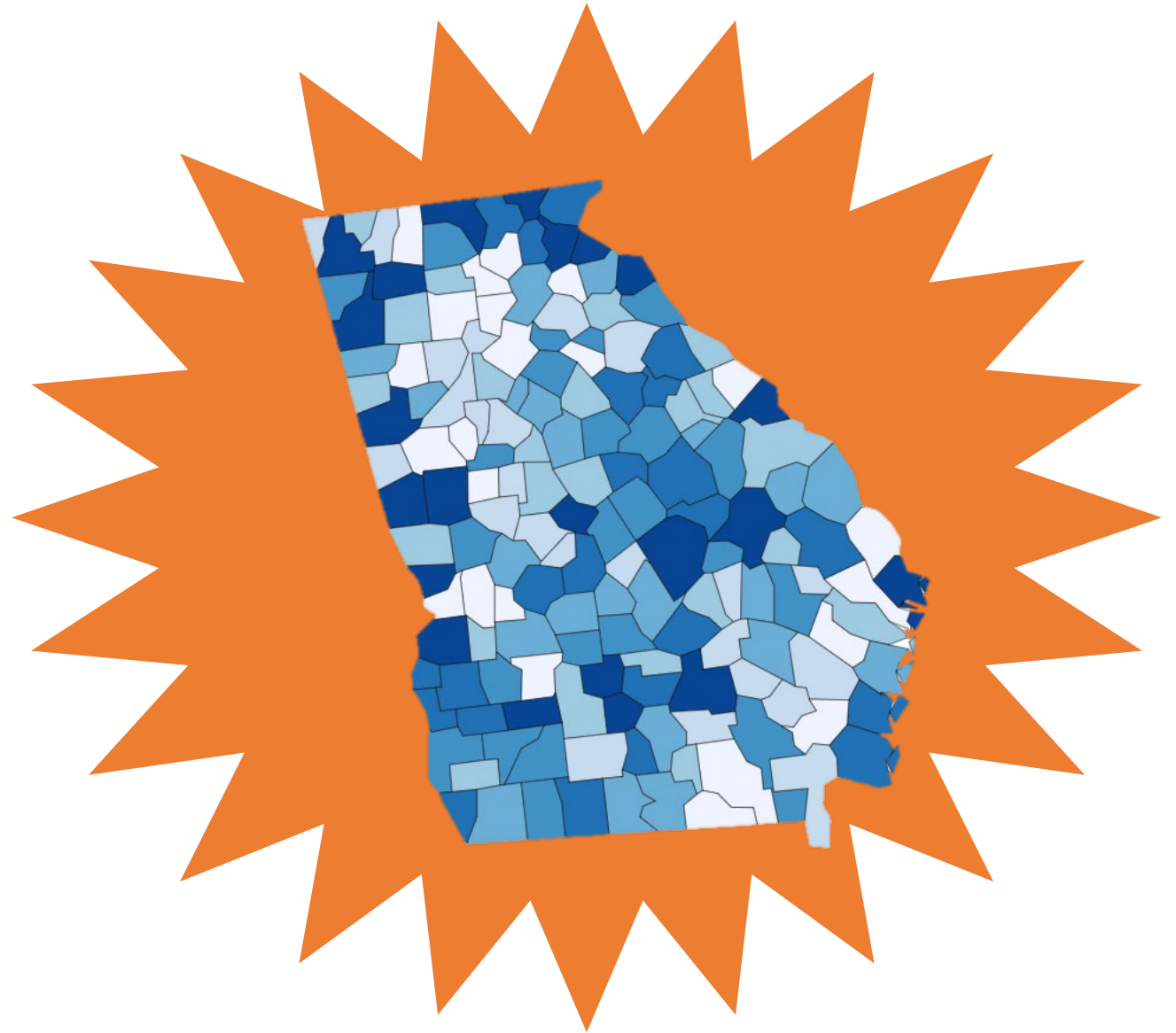
VEHSS - THE VISION & EYE HEALTH SURVEILLANCE SYSTEM

4.Results Panel



New for 2021:

- Composite estimates of the prevalence of visual acuity loss
- County-level mapping:
 - ACS
 - Medicare
 - Composite estimates of vision loss
 - Medicaid coming soon



1. Location

North Carolina

2. Type

Composite Estimates

3. Composite Estimates

Prevalence Estimates

[Data Source Information](#)

☒ View as county map

4. Topic

Visual Function

5. Category

Measured Visual Acuity

[Category Definition](#)

6. Indicator

Prevalence of Vision Loss, by major age groups

GO

Clear

County map option is shown if user selects a state and a data source that has county-level results

Explore VEHSS Data for North Carolina

Apply Filters

Reset

Year

2017

Subgroup

Any vision loss

Age Group

All Ages

Gender

All genders

Race/Ethnicity

All races

Risk Factor

All persons

Risk factor response

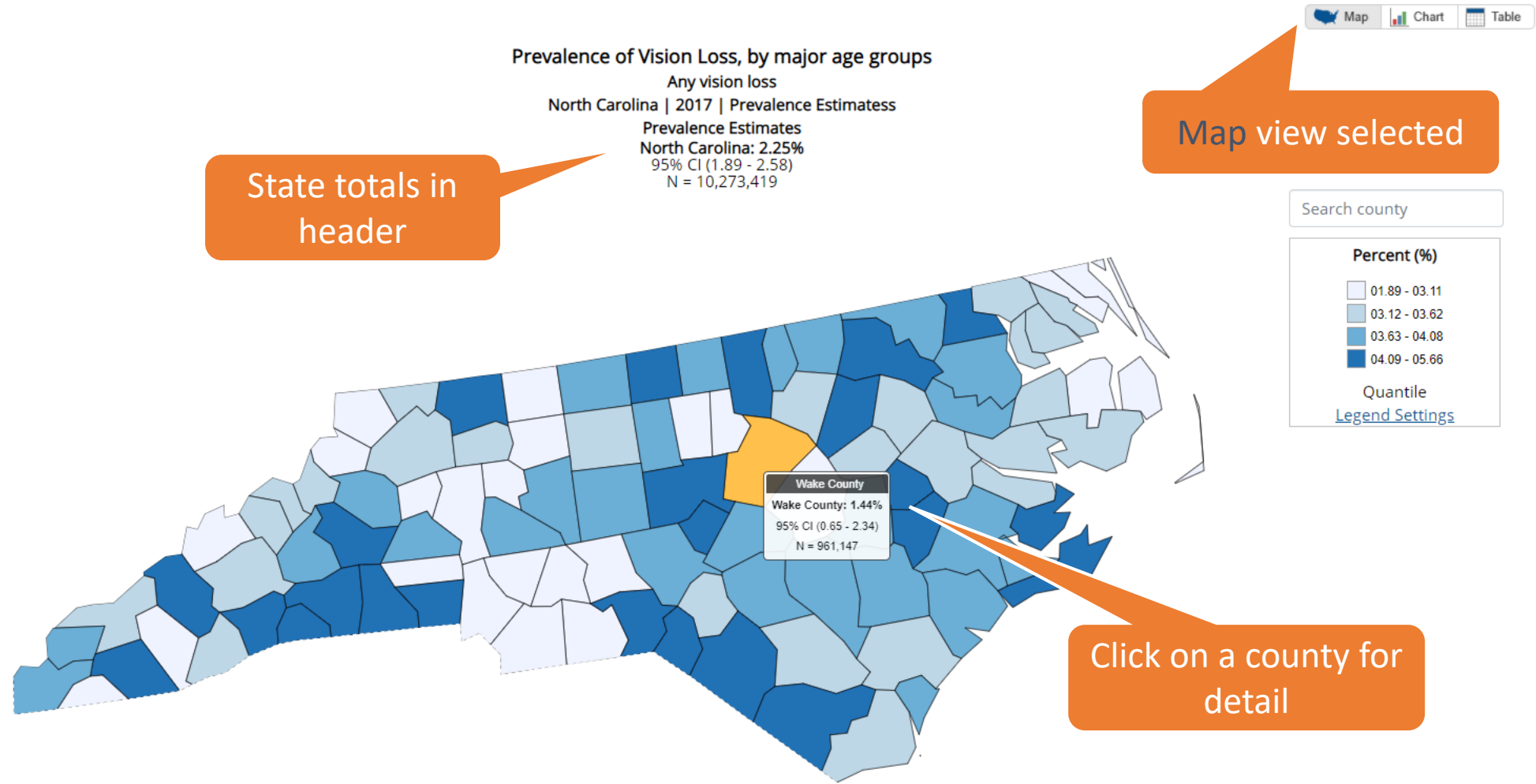
Total

Data Type

Prevalence Estimates

Apply Filters

Reset



1. Location

North Carolina

2. Type

Composite Estimates

3. Composite Estimates

Prevalence Estimates

☒ View as county map

[Data Source Information](#)

4. Topic

Visual Function

5. Category

Measured Visual Acuity

[Category Definition](#)

6. Indicator

Prevalence of Vision Loss, by major age groups

GO [Clear](#)

Explore VEHSS Data for North Carolina

[Share Link](#) [Data Portal](#) [Help](#)

[Map](#) [Chart](#) [Table](#)

Chart view selected

Compare box available in Chart and Table views

Prevalence of Vision Loss, by major age groups

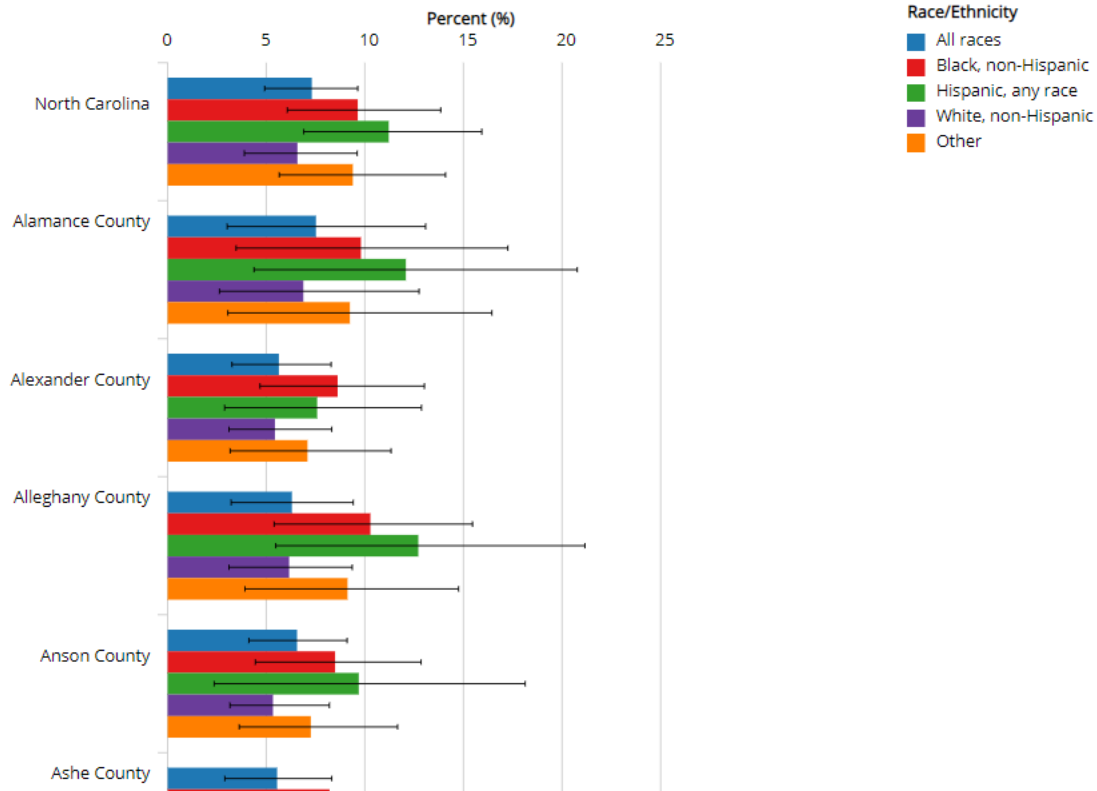
Any vision loss

North Carolina | 2017 | Prevalence Estimates

Prevalence Estimates

65-84 years | Female

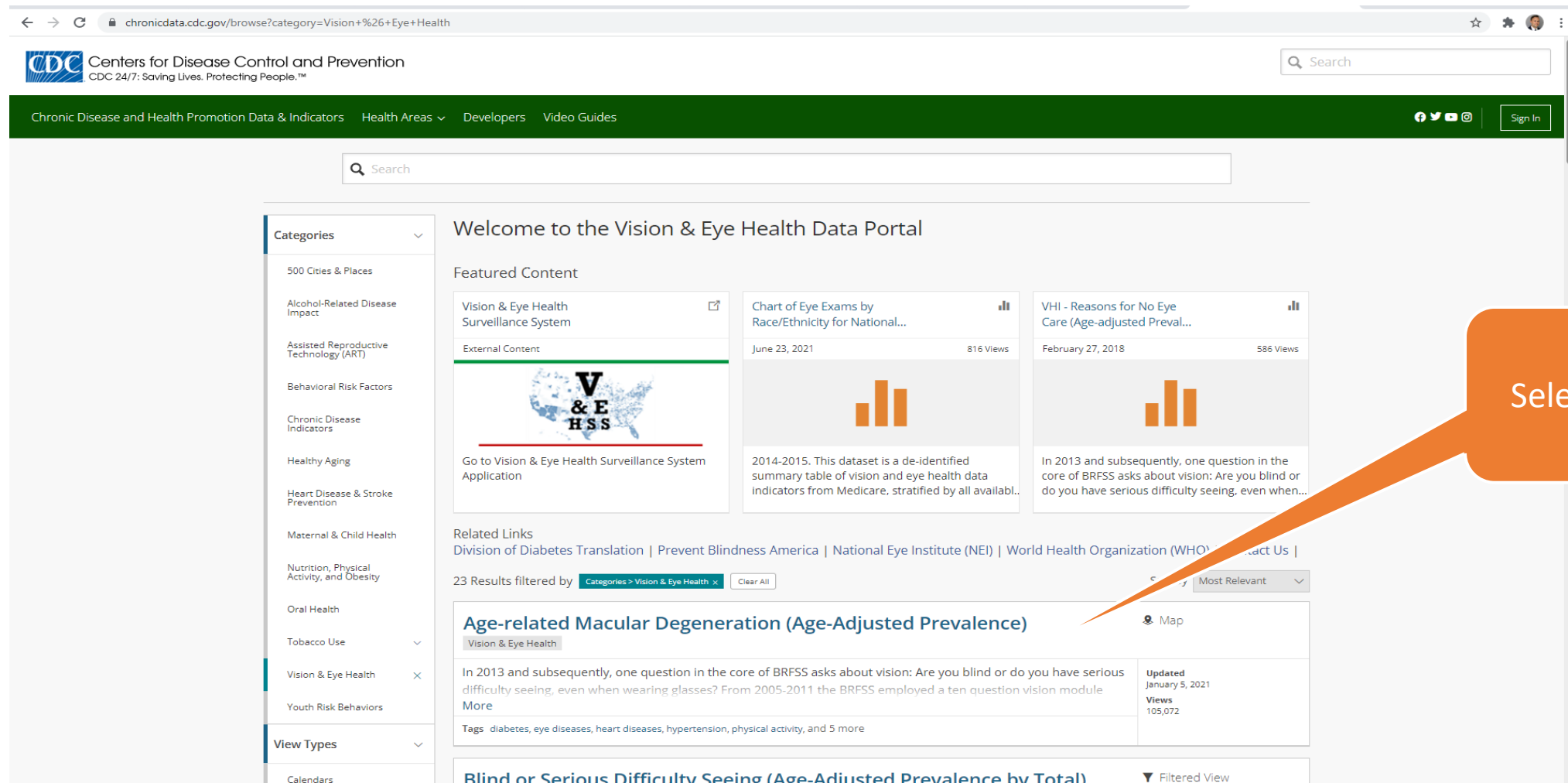
Compare By: Race/Ethnicity



Race/Ethnicity

- All races
- Black, non-Hispanic
- Hispanic, any race
- White, non-Hispanic
- Other

Data Portal



The screenshot shows the CDC Vision & Eye Health Data Portal. The header includes the CDC logo and navigation links. A search bar is present. The left sidebar lists categories like '500 Cities & Places', 'Alcohol-Related Disease Impact', and 'Vision & Eye Health'. The main content area features a 'Welcome to the Vision & Eye Health Data Portal' message, 'Featured Content' with three cards (Vision & Eye Health Surveillance System, Chart of Eye Exams by Race/Ethnicity, and VHI - Reasons for No Eye Care), and 'Related Links'. Below this, a search result for 'Age-related Macular Degeneration (Age-Adjusted Prevalence)' is shown, including a description, tags, and a 'Map' button. An orange callout bubble points to the 'Map' button with the text 'Select a data file'.

chronicdata.cdc.gov/browse?category=Vision+%26+Eye+Health

CDC Centers for Disease Control and Prevention
CDC 24/7: Saving Lives. Protecting People.™

Chronic Disease and Health Promotion Data & Indicators Health Areas ▾ Developers Video Guides

Search

Categories ▾

- 500 Cities & Places
- Alcohol-Related Disease Impact
- Assisted Reproductive Technology (ART)
- Behavioral Risk Factors
- Chronic Disease Indicators
- Healthy Aging
- Heart Disease & Stroke Prevention
- Maternal & Child Health
- Nutrition, Physical Activity, and Obesity
- Oral Health
- Tobacco Use ▾
- Vision & Eye Health ×
- Youth Risk Behaviors

View Types ▾


- Calendars

Welcome to the Vision & Eye Health Data Portal

Featured Content

Vision & Eye Health Surveillance System


External Content



Go to Vision & Eye Health Surveillance System Application

Chart of Eye Exams by Race/Ethnicity for National...


June 23, 2021 816 Views



2014-2015. This dataset is a de-identified summary table of vision and eye health data indicators from Medicare, stratified by all availabl..

VHI - Reasons for No Eye Care (Age-adjusted Preval...

February 27, 2018 588 Views



In 2013 and subsequently, one question in the core of BRFSS asks about vision: Are you blind or do you have serious difficulty seeing, even when...

Related Links

Division of Diabetes Translation | Prevent Blindness America | National Eye Institute (NEI) | World Health Organization (WHO) | Contact Us |

23 Results filtered by Categories > Vision & Eye Health × Clear All

Age-related Macular Degeneration (Age-Adjusted Prevalence)

Vision & Eye Health

In 2013 and subsequently, one question in the core of BRFSS asks about vision: Are you blind or do you have serious difficulty seeing, even when wearing glasses? From 2005-2011 the BRFSS employed a ten question vision module

More

Tags: diabetes, eye diseases, heart diseases, hypertension, physical activity, and 5 more

Updated January 5, 2021
Views 105,072

Map

Blind or Serious Difficulty Seeing (Age-Adjusted Prevalence by Total)

Filtered View

Select a data file



VEHSS - THE VISION & EYE HEALTH SURVEILLANCE SYSTEM

Data Portal: Selected Data

American Community Survey (ACS) – Vision and Eye Health Surveillance

Vision & Eye Health

View Data

Click View Data

2014, 2015, 2016, 2017, 2018. This dataset is a de-identified summary table of vision and eye health data indicators from ACS, stratified by all available combinations of age group, race/ethnicity, gender, and state. ACS is an annual nationwide survey conducted by the U.S. Census Bureau that collects information on demographic, social, economic, and housing

[More](#)

Updated
June 15, 2021

Data Provided by
Centers for Disease Control and
Prevention

About this Dataset

Mute Dataset

Updated
June 15, 2021

Data Last Updated
June 15, 2021

Metadata Last Updated
June 15, 2021

Date Created
February 13, 2018

Views
1,262

Downloads
3,191

Data Provided by
Centers for Disease Control and
Prevention

Dataset
Owner
CDC UserKF

Contact Dataset Owner

Common Core

Publisher
Centers for Disease Control and Prevention

Contact Name
DDT Public Inquiries

Contact Email
ddtpubsmailbox@cdc.gov

Bureau Code
009:20

Program Code
009:020

Public Access Level
Public Domain

Data Dictionary
<https://chronicdata.cdc.gov/d/thir-stei>
https://www.census.gov/content/dam/Census/programs-surveys/acs/about/ACS_Information_Guide.pdf, <https://www.cdc.gov/visionhealth/vehss/data/national-surveys/american-community-survey.html>

Topics

Category
Vision & Eye Health

Tags
acs, visual function, glasses, contact lenses

[Show More](#)

What's in this Dataset?

Rows
21,116

Columns
26



VEHSS - THE VISION & EYE HEALTH SURVEILLANCE SYSTEM

Data Portal: Filter

chronicdata.cdc.gov/Vision-Eye-Health/American-Community-Survey-ACS-Vision-and-Eye-Health/thir-stei/data

CDC Centers for Disease Control and Prevention
CDC 24/7: Saving Lives. Protecting People.™

Chronic Disease and Health Promotion Data & Indicators Health Areas ▾ Developers Video Guides

Search

Changes will not be saved unless you first sign in. close

American Community Survey (ACS) – Vision and Eye He...
Based on [American Community Survey \(ACS\) – Vision and Eye Health Surveillance](#)
2014, 2015, 2016, 2017, 2018. This dataset is a de-identified summary table of vision and eye

Year...	Year...	Loca...	LocationDesc	Data...	Topic	Category	Question
2018	2018	Plumas	Plumas County	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	Wheeler	Wheeler County	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	Monroe	Monroe County	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	Adams	Adams County	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	Pawnee	Pawnee County	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	Sharkey	Sharkey County	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	Clinton	Clinton County	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	Clay	Clay County	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	Wallowa	Wallowa County	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	CO	Colorado	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	AK	Alaska	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	AZ	Arizona	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	Borden	Borden County	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	Lamb	Lamb County	ACS	Visual Function	Blind or Difficulty Seeing	Percentag

< Previous Next > Showing rows 1 to 100 out of 25,849

More Views Filter Visualize Export Embed About

Filter

Conditional Formatting

Sort & Roll-Up

Filter

Filter this dataset based on contents.

YearStart is 2018

Add a New Filter Condition

Click Filter

Select a variable,
enter a value

Add more filters



VEHSS - THE VISION & EYE HEALTH SURVEILLANCE SYSTEM

Data Portal: Export

← → ↻ chronicdata.cdc.gov/Vision-Eye-Health/American-Community-Survey-ACS-Vision-and-Eye-Health/thir-stei/data

CDC Centers for Disease Control and Prevention
CDC 24/7: Saving Lives. Protecting People.™

Chronic Disease and Health Promotion Data & Indicators Health Areas ▾ Developers Video Guides

American Community Survey (ACS) – Vision and Eye He...
Based on [American Community Survey \(ACS\) – Vision and Eye Health Surveillance](#)
2014, 2015, 2016, 2017, 2018. This dataset is a de-identified summary table of vision and eye ▶

Year...	Year...	Loca...	LocationDesc	Data...	Topic	Category	Question
2018	2018	DE	Delaware	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	DE	Delaware	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	DE	Delaware	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	DE	Delaware	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	DE	Delaware	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	DE	Delaware	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	DE	Delaware	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	DE	Delaware	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	DE	Delaware	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	DE	Delaware	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	DE	Delaware	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	DE	Delaware	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	DE	Delaware	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	DE	Delaware	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	DE	Delaware	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	DE	Delaware	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	DE	Delaware	ACS	Visual Function	Blind or Difficulty Seeing	Percentag
2018	2018	DE	Delaware	ACS	Visual Function	Blind or Difficulty Seeing	Percentag

More Views Filter Visualize **Export** Embed About

Export

SODA API
OData
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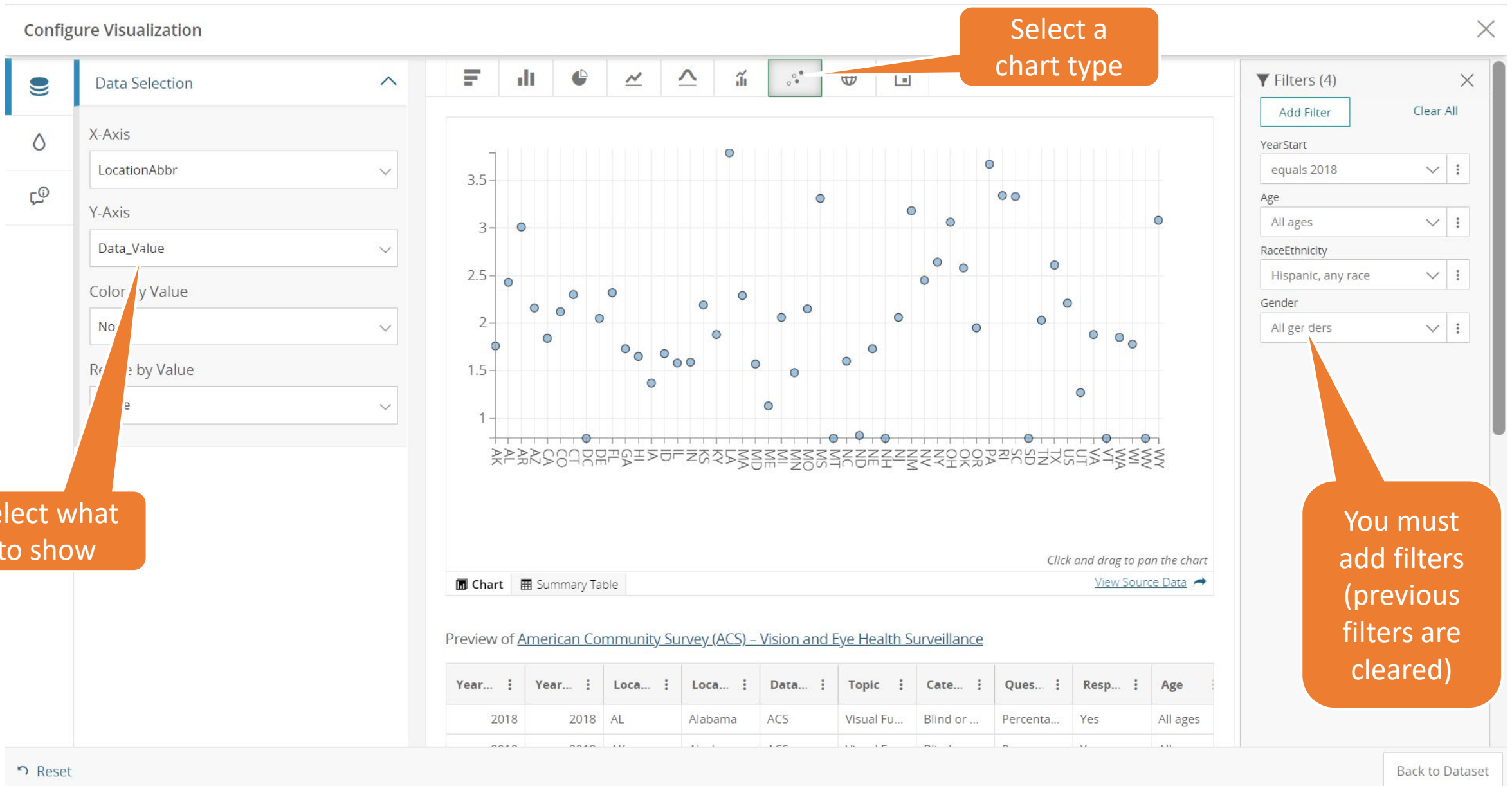
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VEHSS - THE VISION & EYE HEALTH SURVEILLANCE SYSTEM

Data Portal: Visualize a scatterplot



Data Portal: Visualize a map

