



Eugene Sidewalk Inventory

JWN | February 2024

Anne Brown, PhD

School of Planning, Public Policy, and Management

We know where Eugene's sidewalk are...
but what condition are they in?



O

Method: sidewalk audit

- City of Eugene staff discussion
- Reviewed sidewalk audit research + ADA guidelines
- Interviewed City of Seattle Public Works
- Developed data collection tool



10:06 AM

Location* Anne

Please adjust pin as needed

Find address or place

Map data © OpenStreetMap contributors, CC-... Powered by Esri

Sidewalk condition ▾

See the [Sidewalk Condition Guide](#) for help in measuring surface condition.

How many adjoining sidewalk pavers are affected?

How large are the affected sidewalk pavers

Please select the closest approximate size of each individual affected paver.

10:06 AM

Location* Anne

How large are the affected sidewalk pavers

Please select the closest approximate size of each individual affected paver.

2.5 x 2.5 ft

5 x 5 ft

Other paver size

Passage

Passable sidewalk width.
See [Sidewalk Condition Guide](#) for help in measuring passage.

Less than 48 inches

48 inches or wider

Uplift

For records with multiple areas of uplift, measure the greatest uplift you observe.
See [Sidewalk Condition Guide](#) for help in measuring uplift.

1/4 inch or less

10:06 AM

Location* Anne

Surface condition

Measured on a five-point scale.
See [Sidewalk Condition Guide](#) for help in measuring surface condition.

Perfect/very good

Good

Moderate

Poor

Critical

Obstructions

See [Sidewalk Condition Guide](#) for additional information on obstructions.

None

Post or pole

Fire hydrant



What did we measure?

We measured different sidewalk conditions, focusing on...



Height Differences

Height Differences occur when two or more sidewalk slabs meet at different heights. We categorized sidewalks as:

- $\leq \frac{1}{4}$ inch
- $\frac{1}{4}$ inch - $\frac{1}{2}$ inch
- $\geq \frac{1}{2}$ inch

What did we measure?

We measured different sidewalk conditions, focusing on...



Height Differences

Height Differences occur when two or more sidewalk slabs meet at different heights. We categorized sidewalks as:

- $\leq \frac{1}{4}$ inch
- $\frac{1}{4}$ inch - $\frac{1}{2}$ inch
- $\geq \frac{1}{2}$ inch



Passage

Passage refers to the passable width of the sidewalk at a given point. We categorized sidewalks as:

- "Less than 48 inches"
- "48 inches or wider"

Obstructions

Obstructions are physical objects that prevent a sidewalk from meeting ADA requirements.

What did we measure?

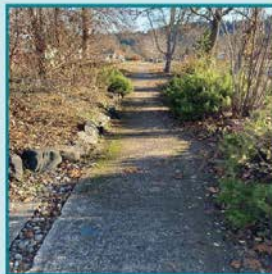
We measured different sidewalk conditions, focusing on...



Height Differences

Height Differences occur when two or more sidewalk slabs meet at different heights. We categorized sidewalks as:

- $\leq \frac{1}{4}$ inch
- $\frac{1}{4}$ inch - $\frac{1}{2}$ inch
- $\geq \frac{1}{2}$ inch



Passage

Passage refers to the passable width of the sidewalk at a given point. We categorized sidewalks as:

- "Less than 48 inches"
- "48 inches or wider"

Obstructions

Obstructions are physical objects that prevent a sidewalk from meeting ADA requirements.



Running slope

The running slope is the slope or grade in the direction of travel. We categorized sidewalks as:

- $< 5\%$
- $5\% - 8\%$
- $> 8\%$

What did we measure?

We measured different sidewalk conditions, focusing on...



Height Differences

Height Differences occur when two or more sidewalk slabs meet at different heights. We categorized sidewalks as:

- $\leq \frac{1}{4}$ inch
- $\frac{1}{4}$ inch - $\frac{1}{2}$ inch
- $\geq \frac{1}{2}$ inch



Passage

Passage refers to the passable width of the sidewalk at a given point. We categorized sidewalks as:

- "Less than 48 inches"
- "48 inches or wider"

Obstructions

Obstructions are physical objects that prevent a sidewalk from meeting ADA requirements.



Running slope

The running slope is the slope or grade in the direction of travel. We categorized sidewalks as:

- $< 5\%$
- $5\% - 8\%$
- $> 8\%$



Cross slope

Cross slope indicates the grade of the sidewalk perpendicular to the direction of travel. We categorized sidewalks as:

- $\leq 2\%$
- $> 2\%$

What did we measure?

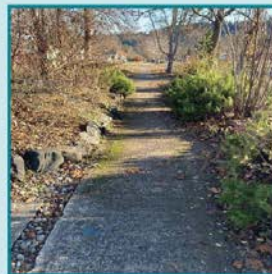
We measured different sidewalk conditions, focusing on...



Height Differences

Height Differences occur when two or more sidewalk slabs meet at different heights. We categorized sidewalks as:

- $\leq \frac{1}{4}$ inch
- $\frac{1}{4}$ inch - $\frac{1}{2}$ inch
- $\geq \frac{1}{2}$ inch



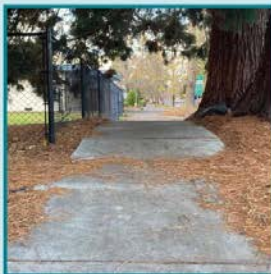
Passage

Passage refers to the passable width of the sidewalk at a given point. We categorized sidewalks as:

- "Less than 48 inches"
- "48 inches or wider"

Obstructions

Obstructions are physical objects that prevent a sidewalk from meeting ADA requirements.



Running slope

The running slope is the slope or grade in the direction of travel. We categorized sidewalks as:

- $< 5\%$
- $5\% - 8\%$
- $> 8\%$

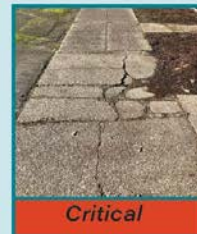


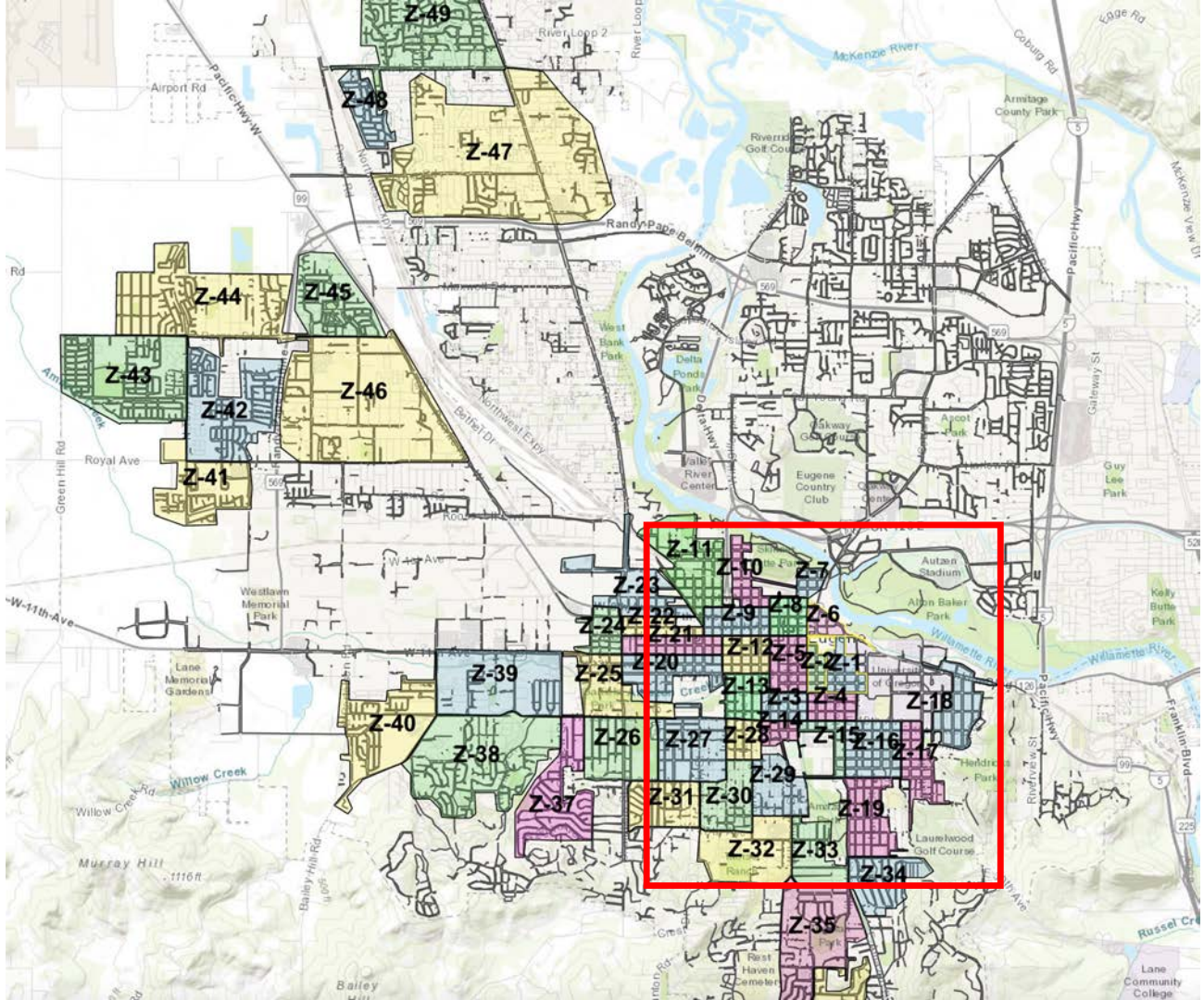
Cross slope

Cross slope indicates the grade of the sidewalk perpendicular to the direction of travel. We categorized sidewalks as:

- $\leq 2\%$
- $> 2\%$

Surface Conditions



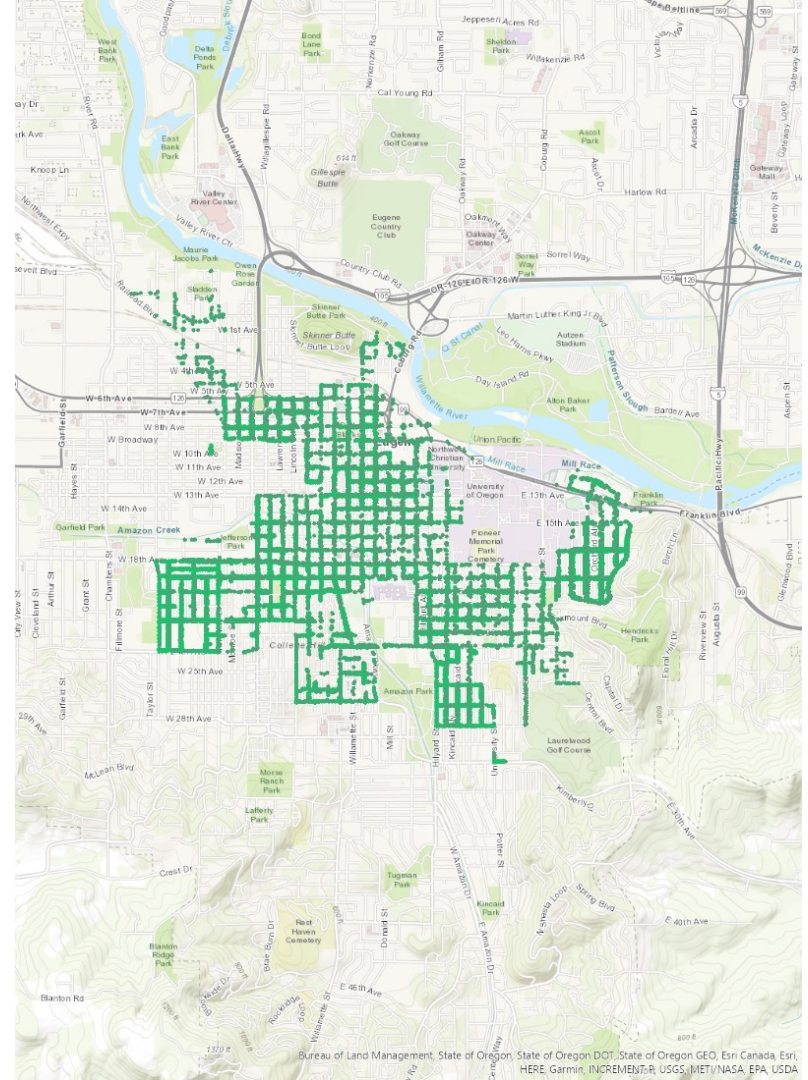


13,890

observations

about 20 acres of sidewalk pavers

*(Also 1,385 crossing treatments,
but that's for another day)*

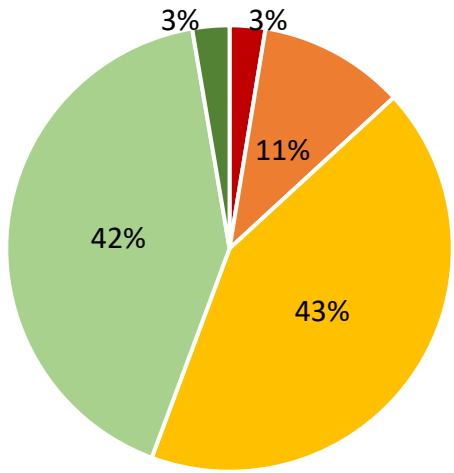




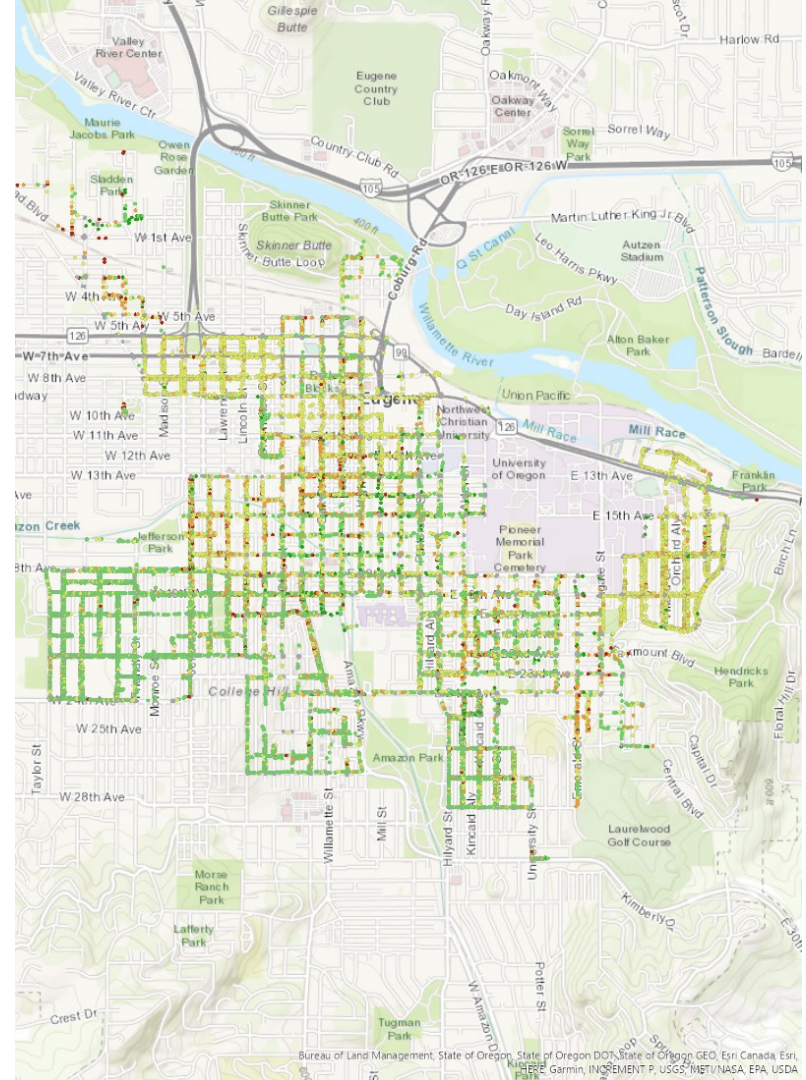
Findings

All data in this presentation have been shared with city staff and are intended to be publicly available.

SIDEWALK CONDITION

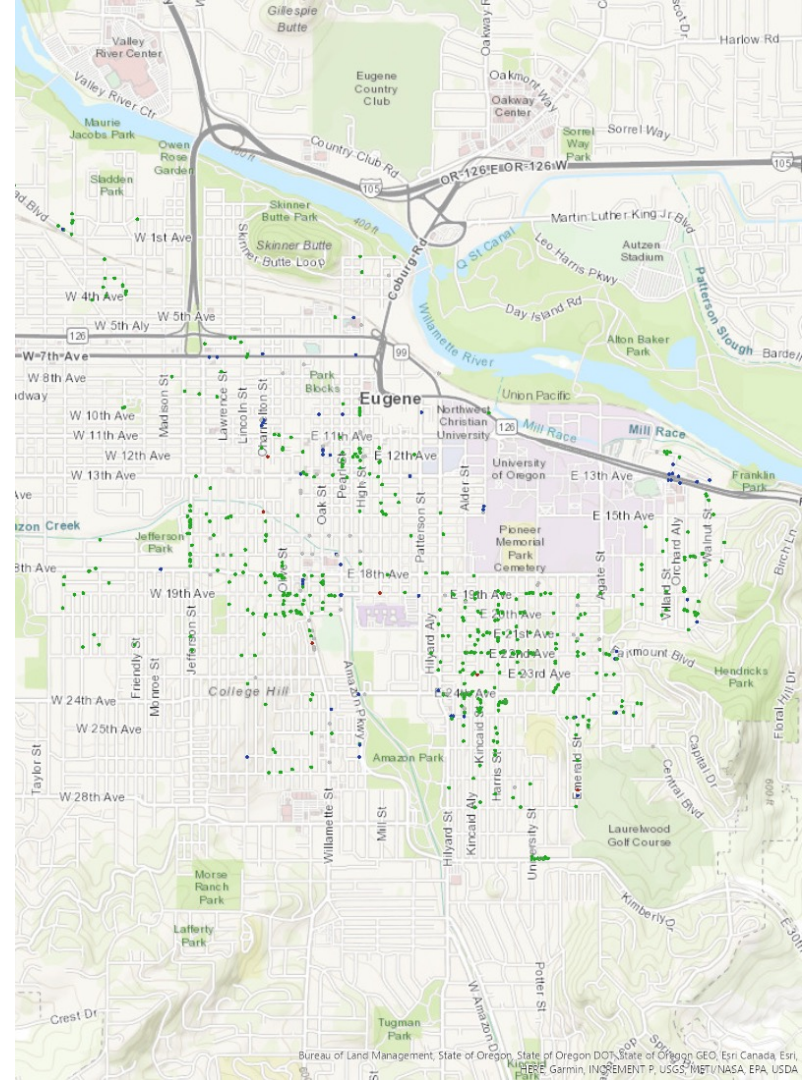
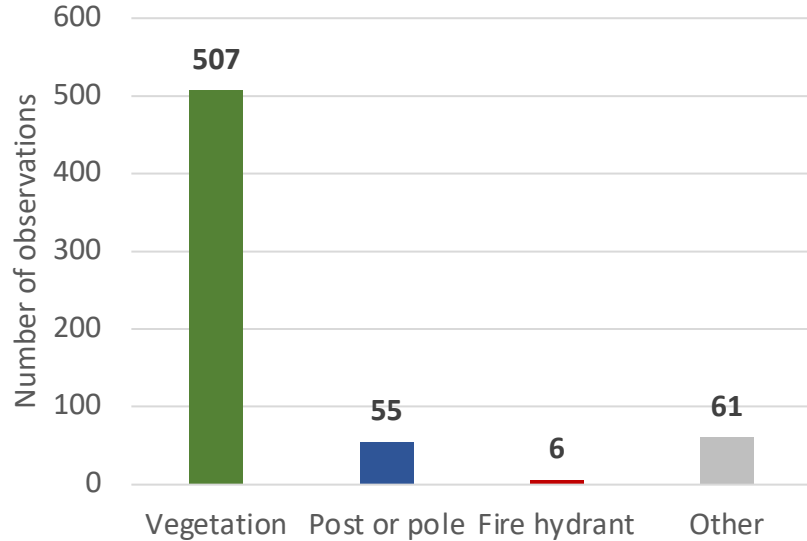


■ Critical ■ Poor ■ Moderate ■ Good ■ Perfect/very good



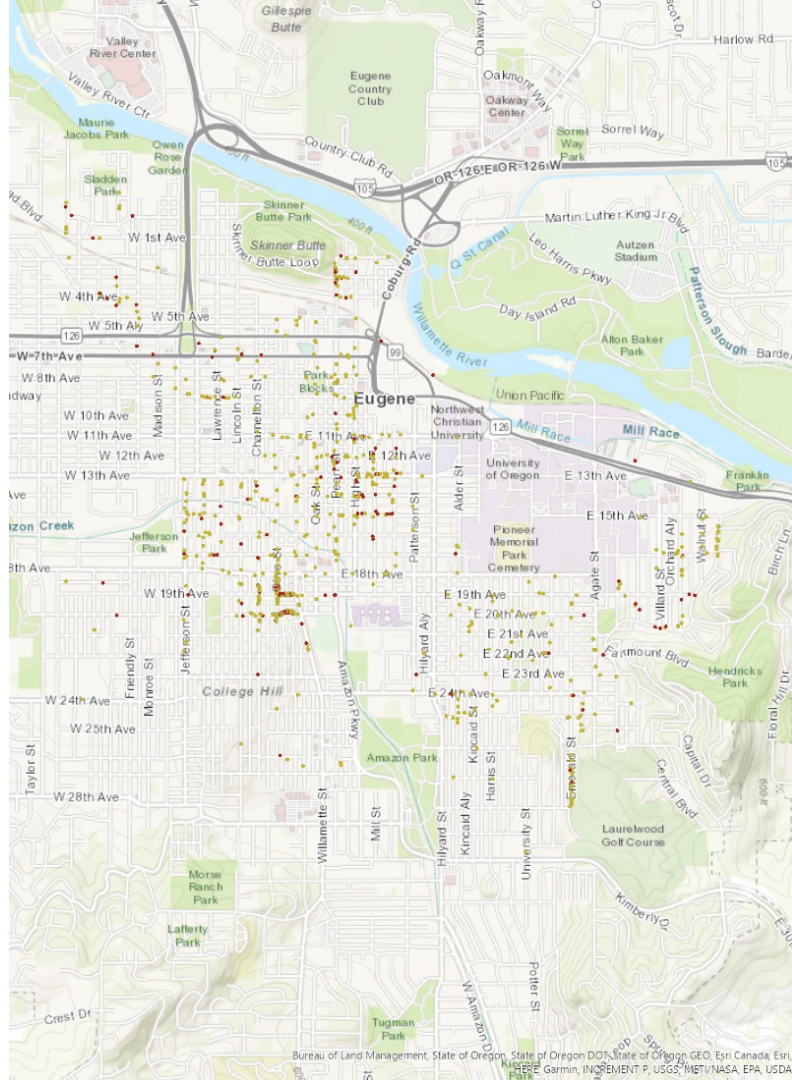
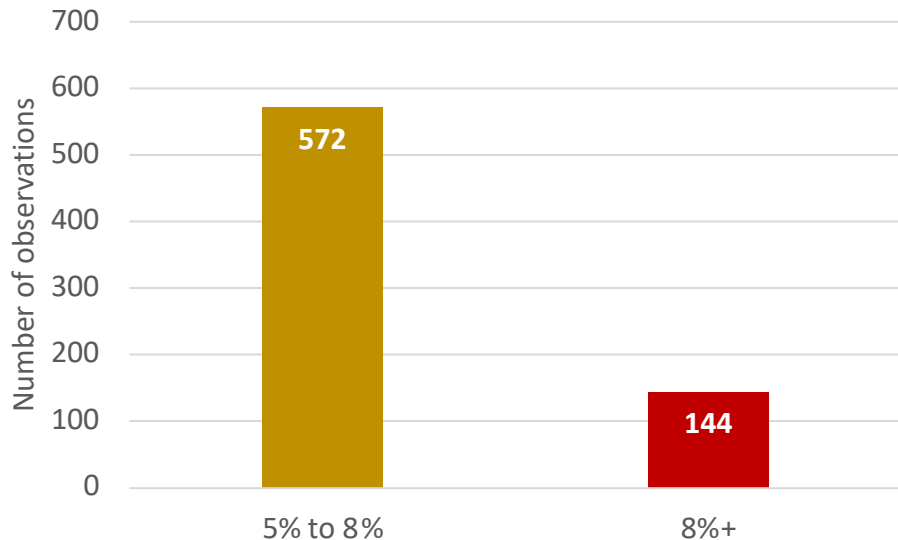
OBSTRUCTIONS

95% of observations weren't obstructed...



RUNNING SLOPE

95% of observations were ADA compliant...





Thanks to UO students

Aidan Austin

Alex Alonso

Amena Martinez-Smith

Ben Bedard

Blaire West

Braden Ravenscroft

Chris Skawski

Cory Frost

Mack Gray

Matt McCreary

Jacob Roth

Jordan Rhoror

Rae Grant

Sierra Rodriguez