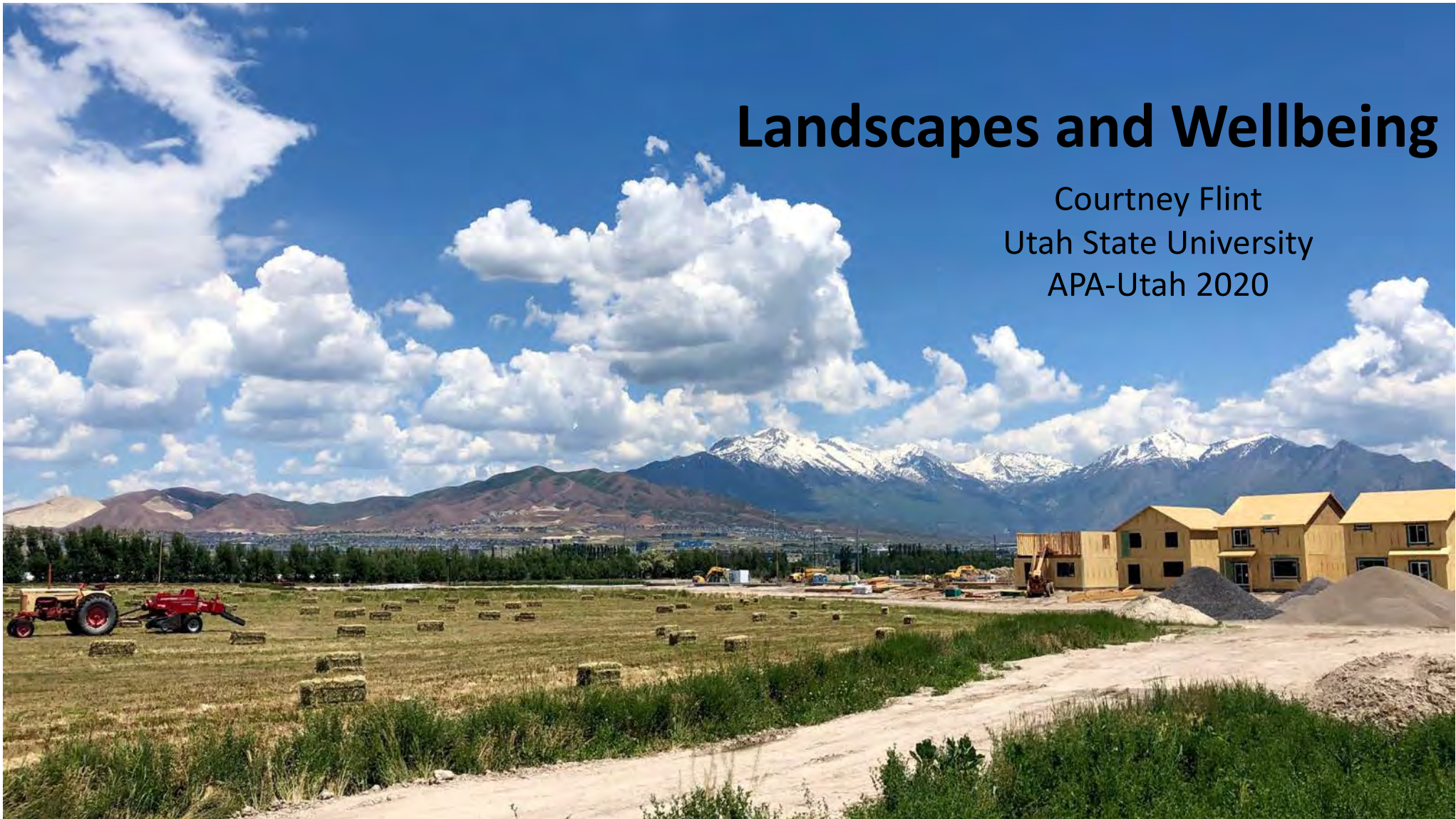


Landscapes and Wellbeing

Courtney Flint
Utah State University
APA-Utah 2020

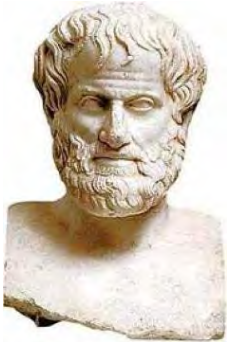








Doug Flint

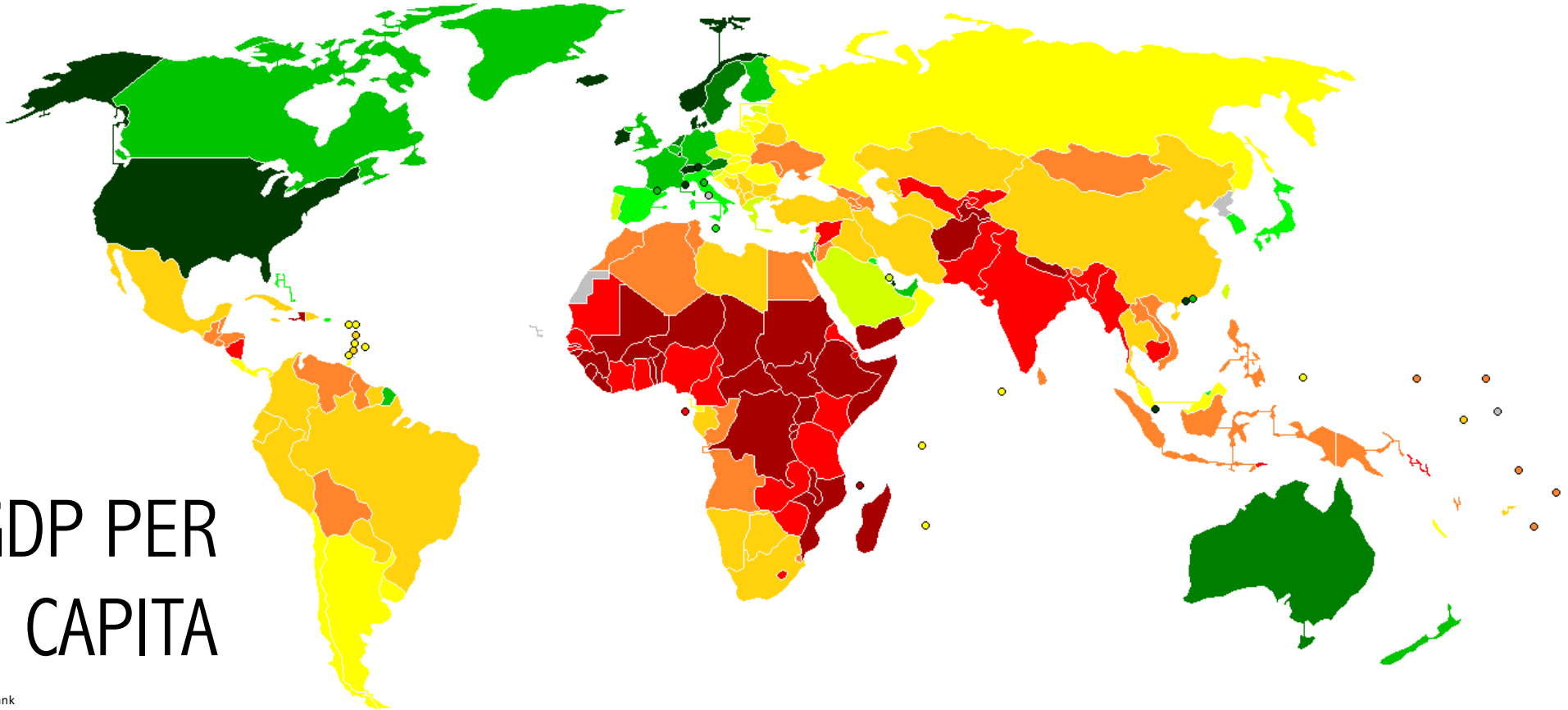


<https://thegreatthinkers.org/aristotle/>





GDP PER
CAPITA



GDP “...measures everything in short, except that which makes life worthwhile.”



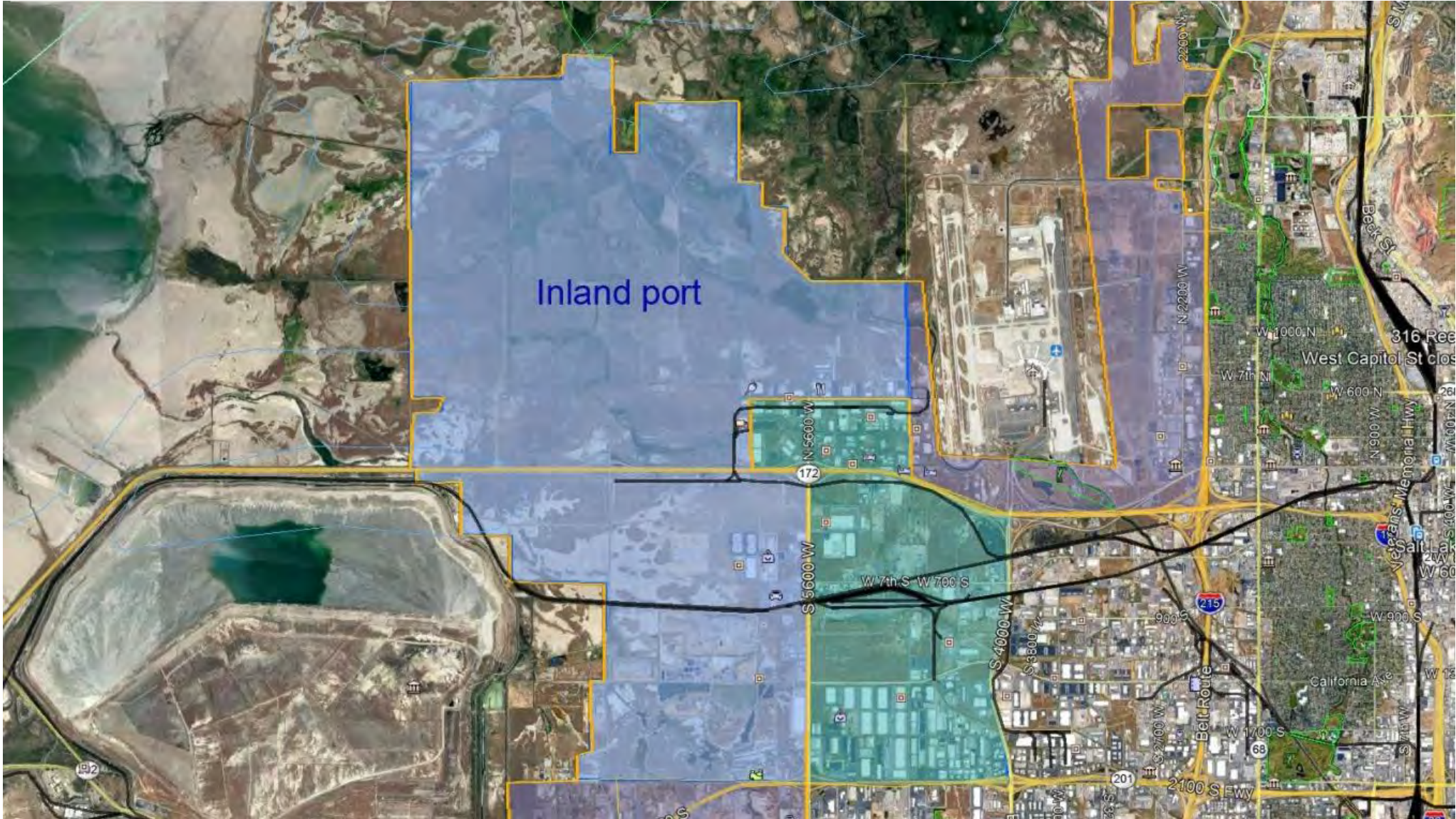
Robert Kennedy, University of
Kansas Speech March 18, 1968

<https://www.theguardian.com/news/datablog/2012/may/24/robert-kennedy-gdp>



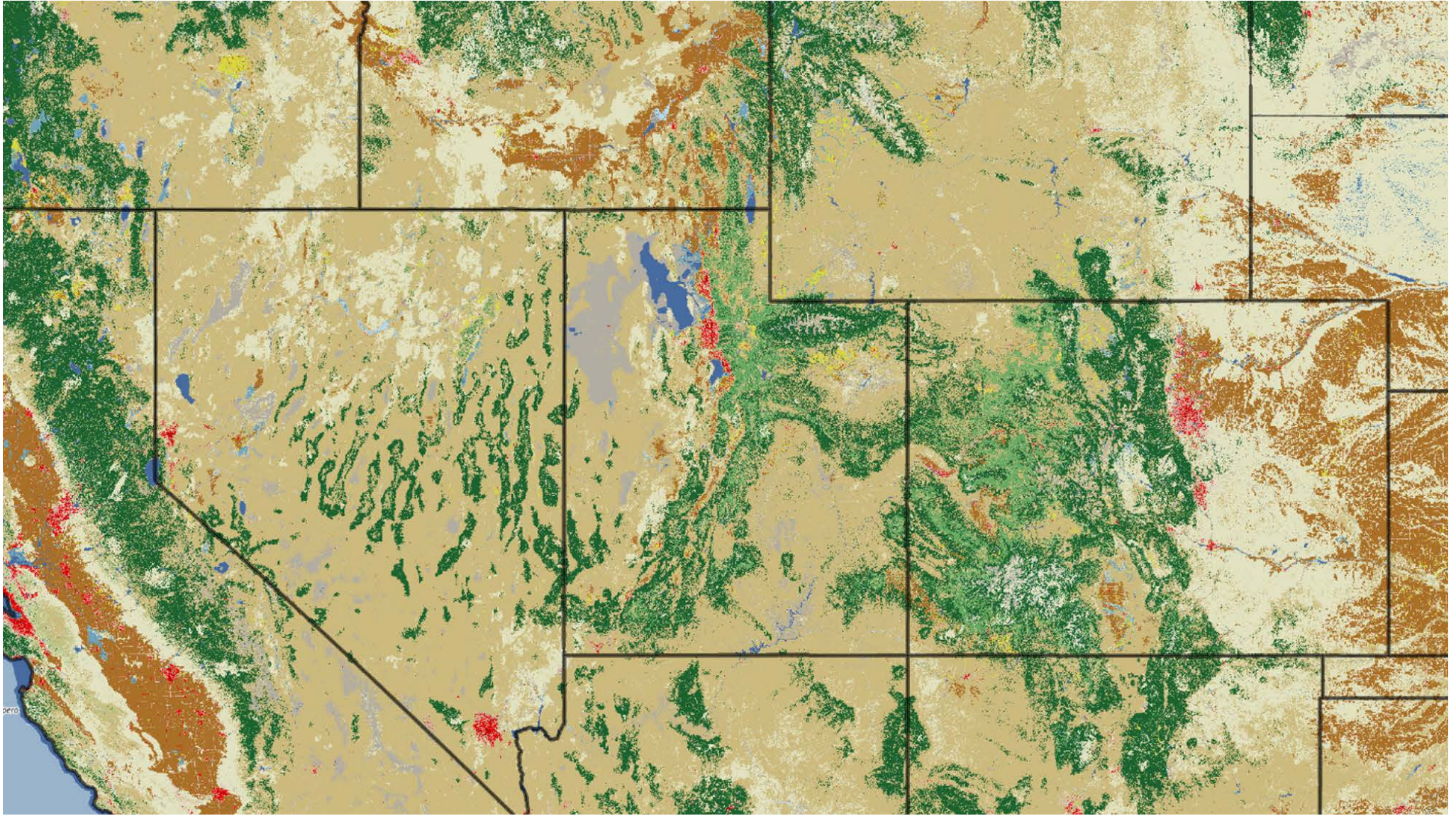


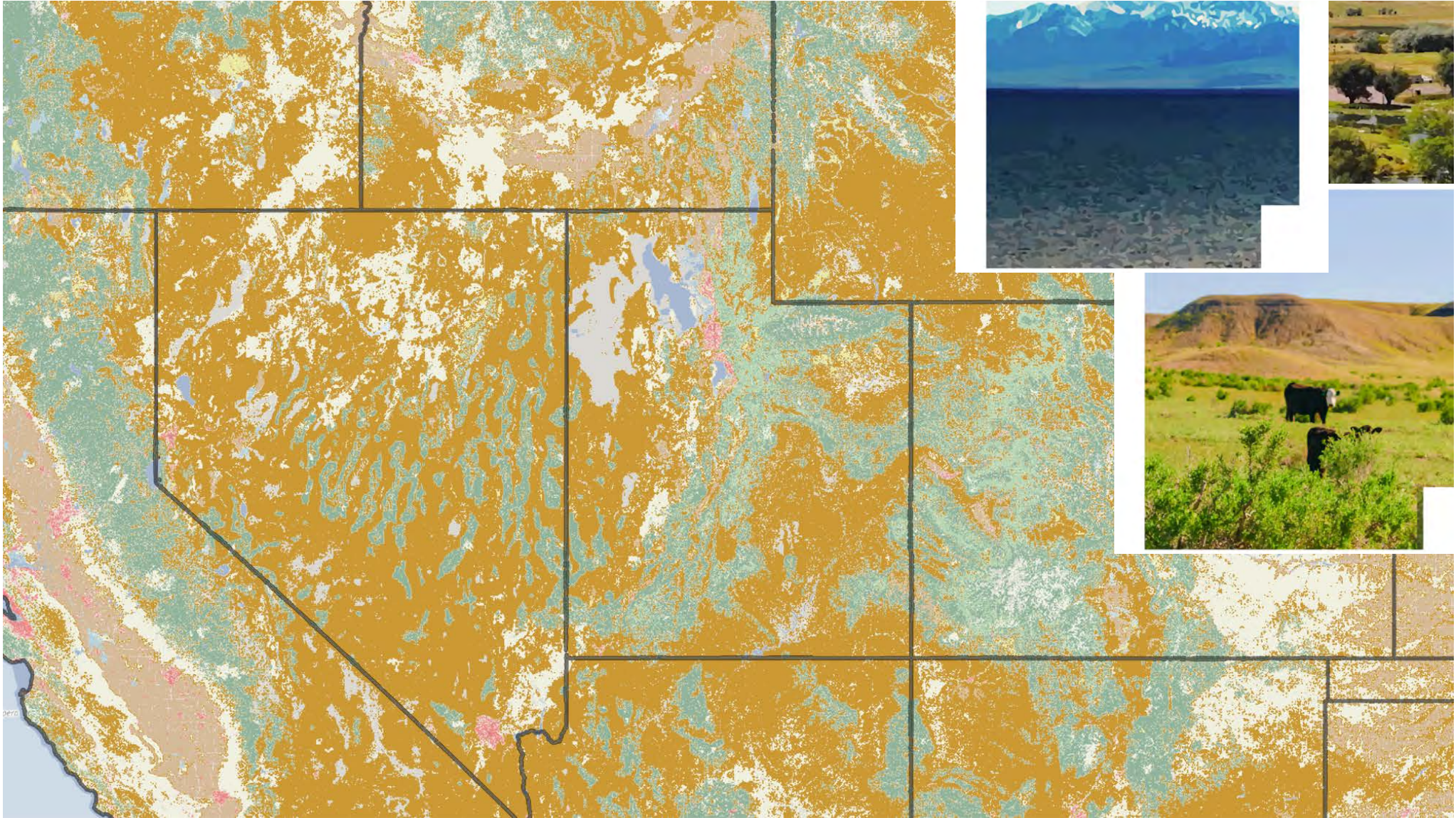




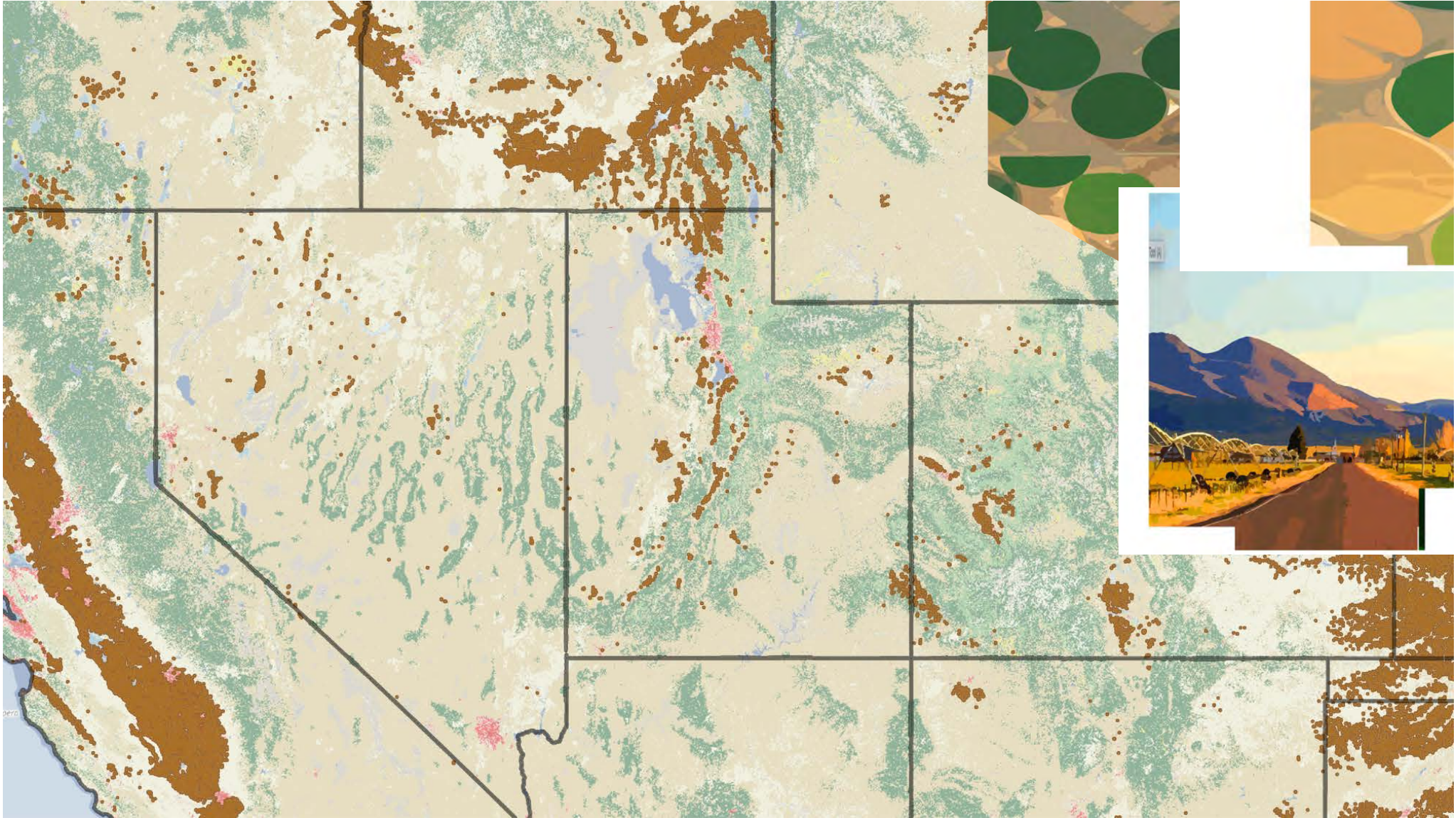


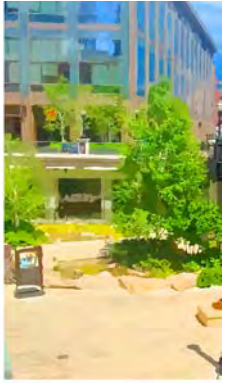
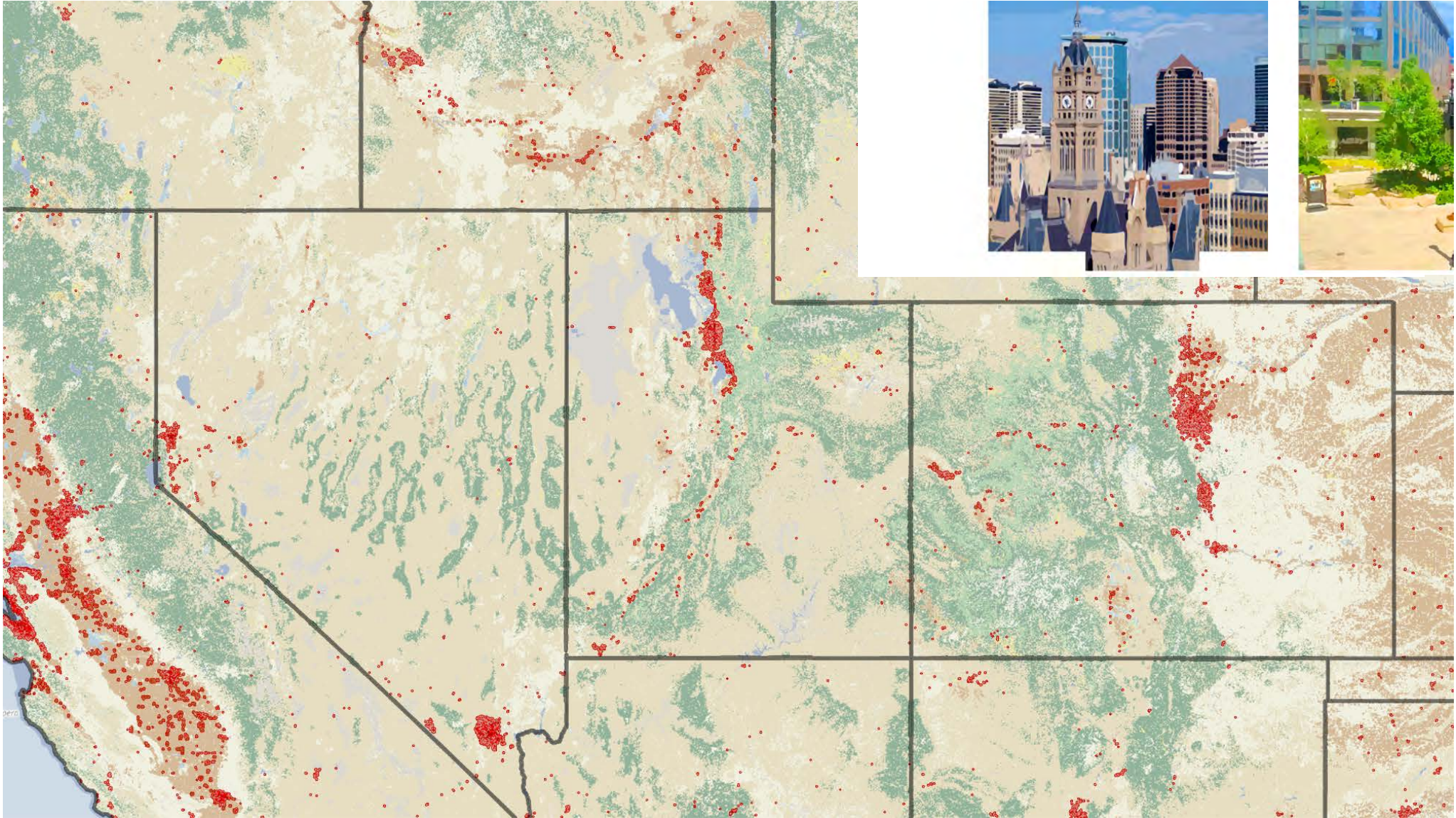


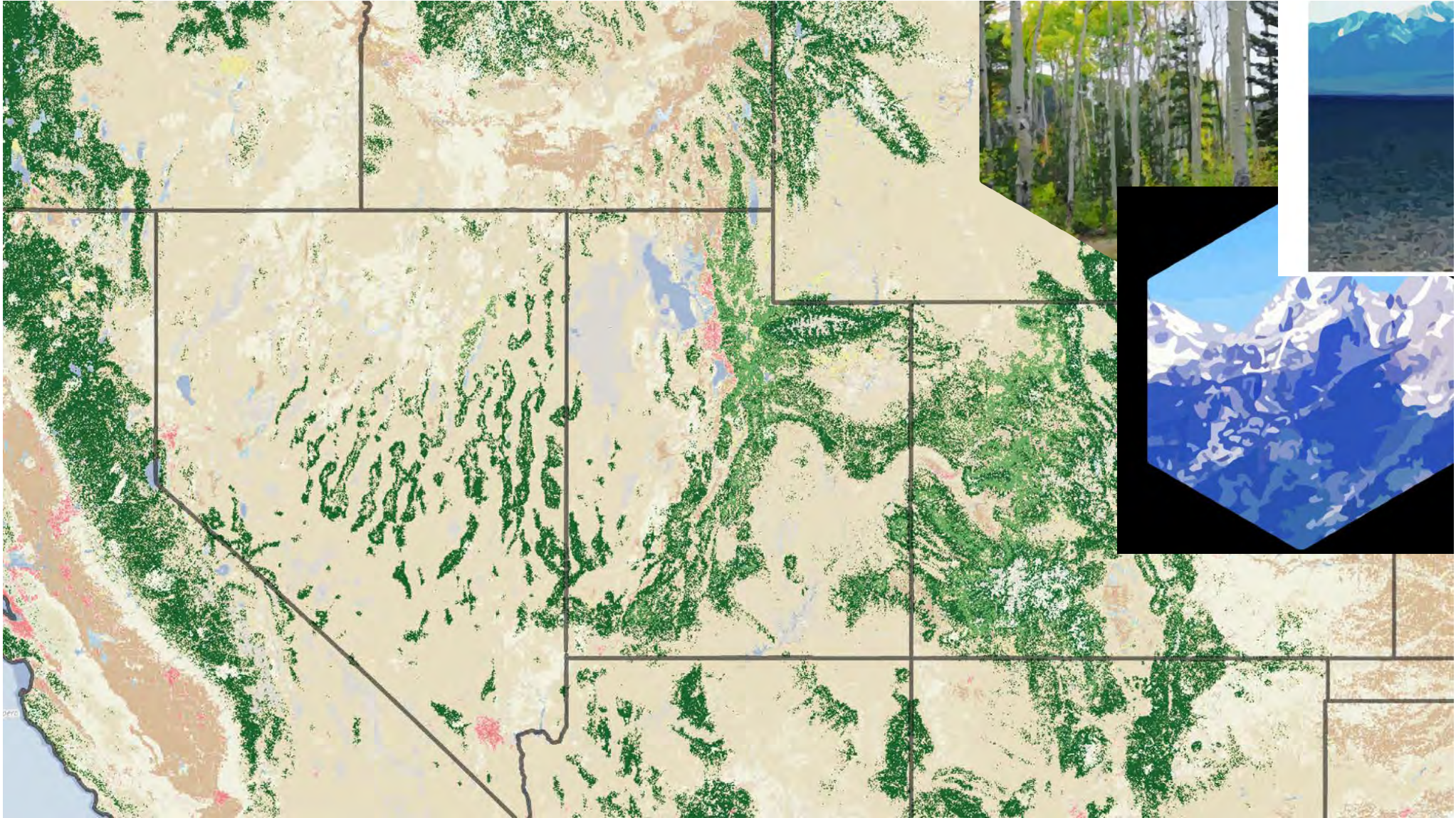


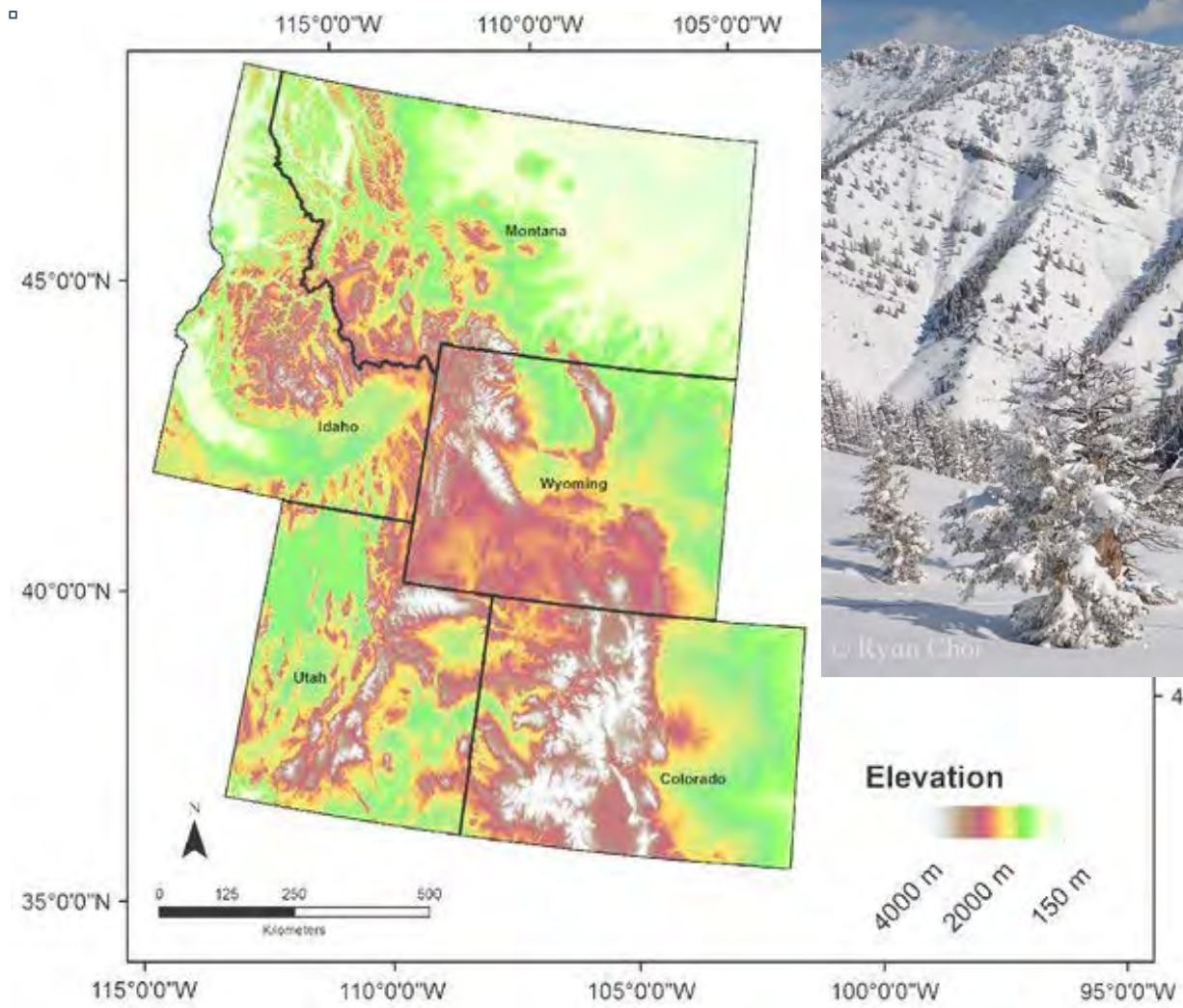














Utah State University



WELLBEING PROJECT

2019 study sites



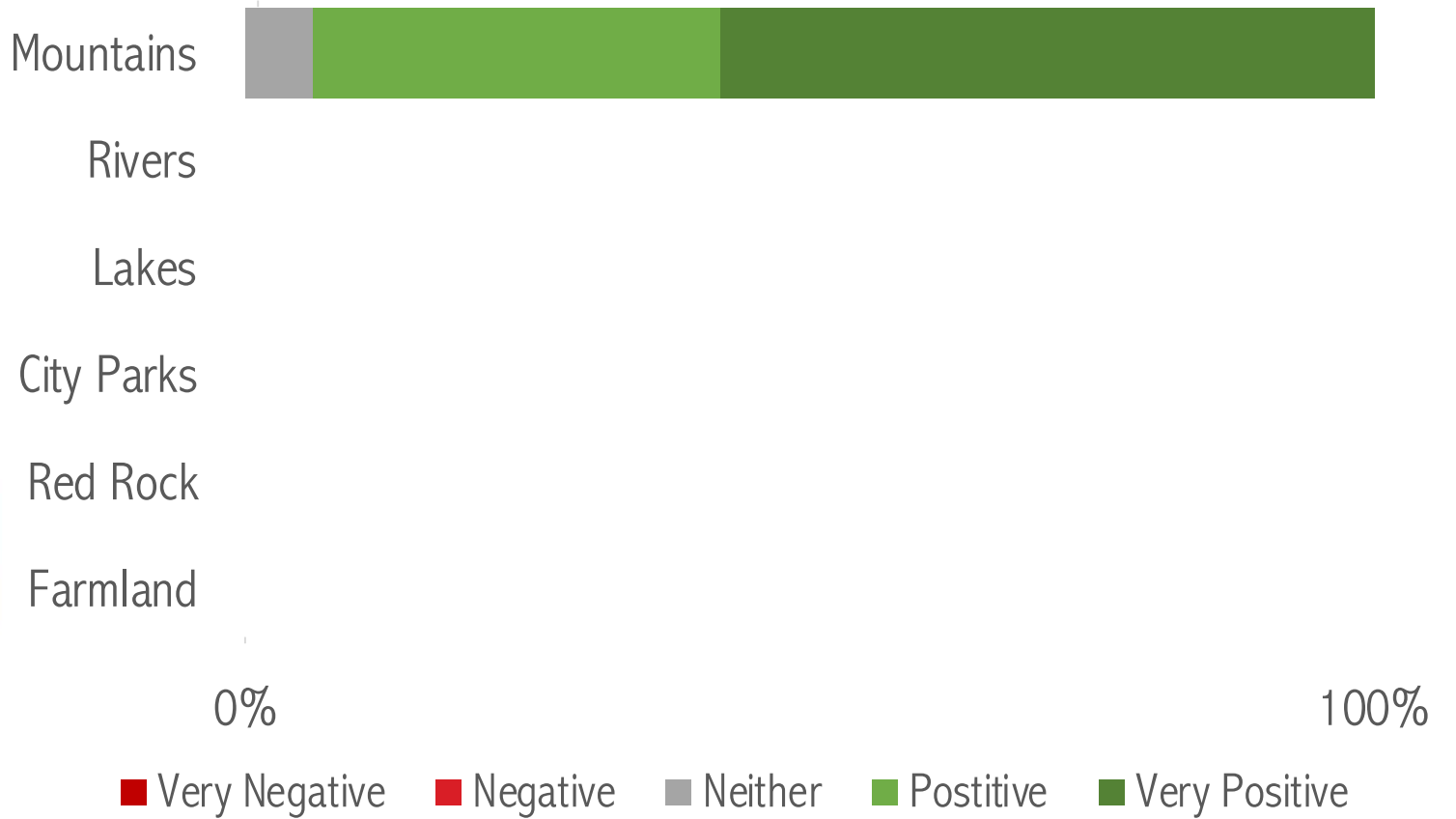
WELLBEING PROJECT

2019-20 study sites



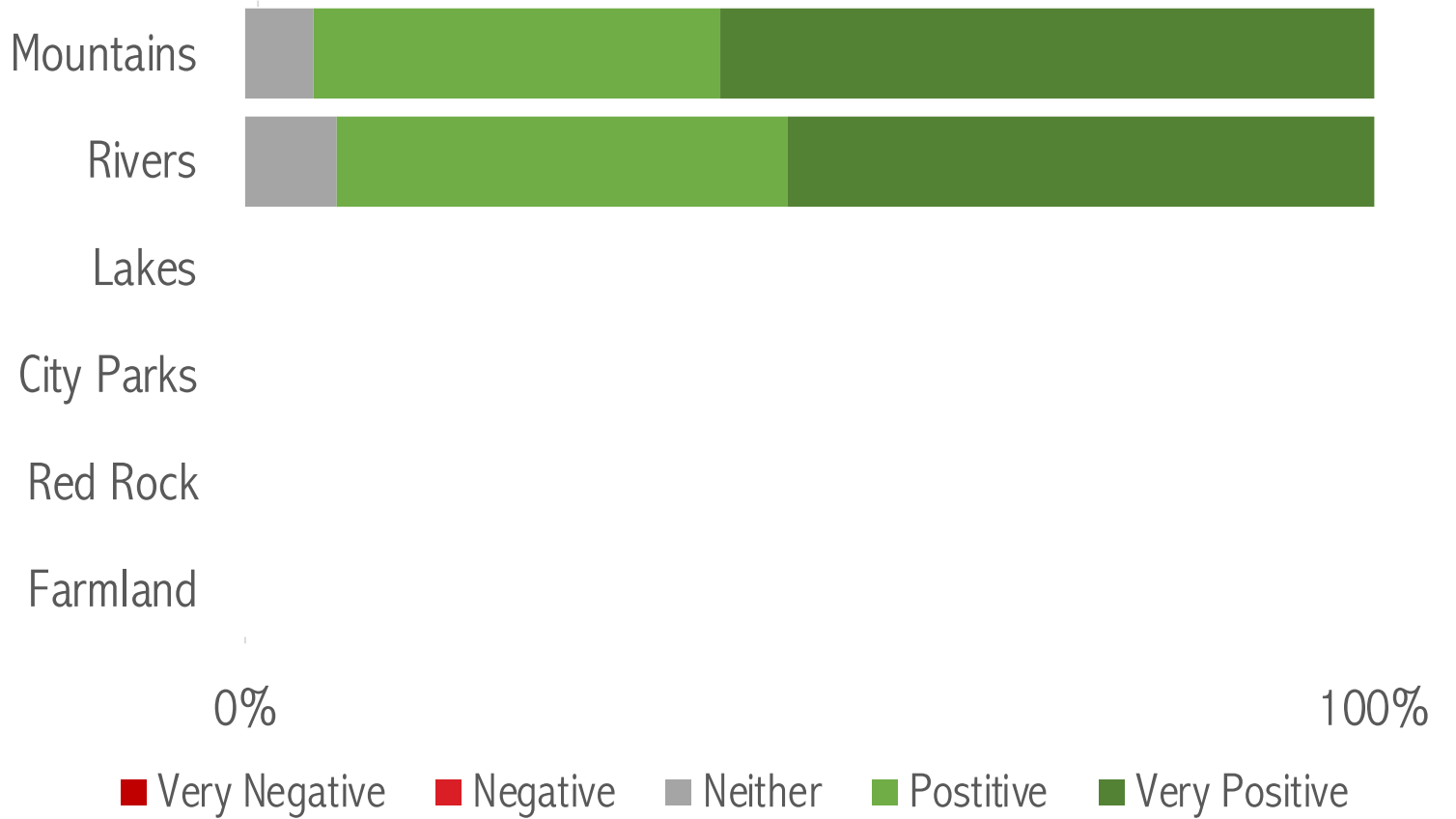


LANDFORMS' INFLUENCE ON WELLBEING



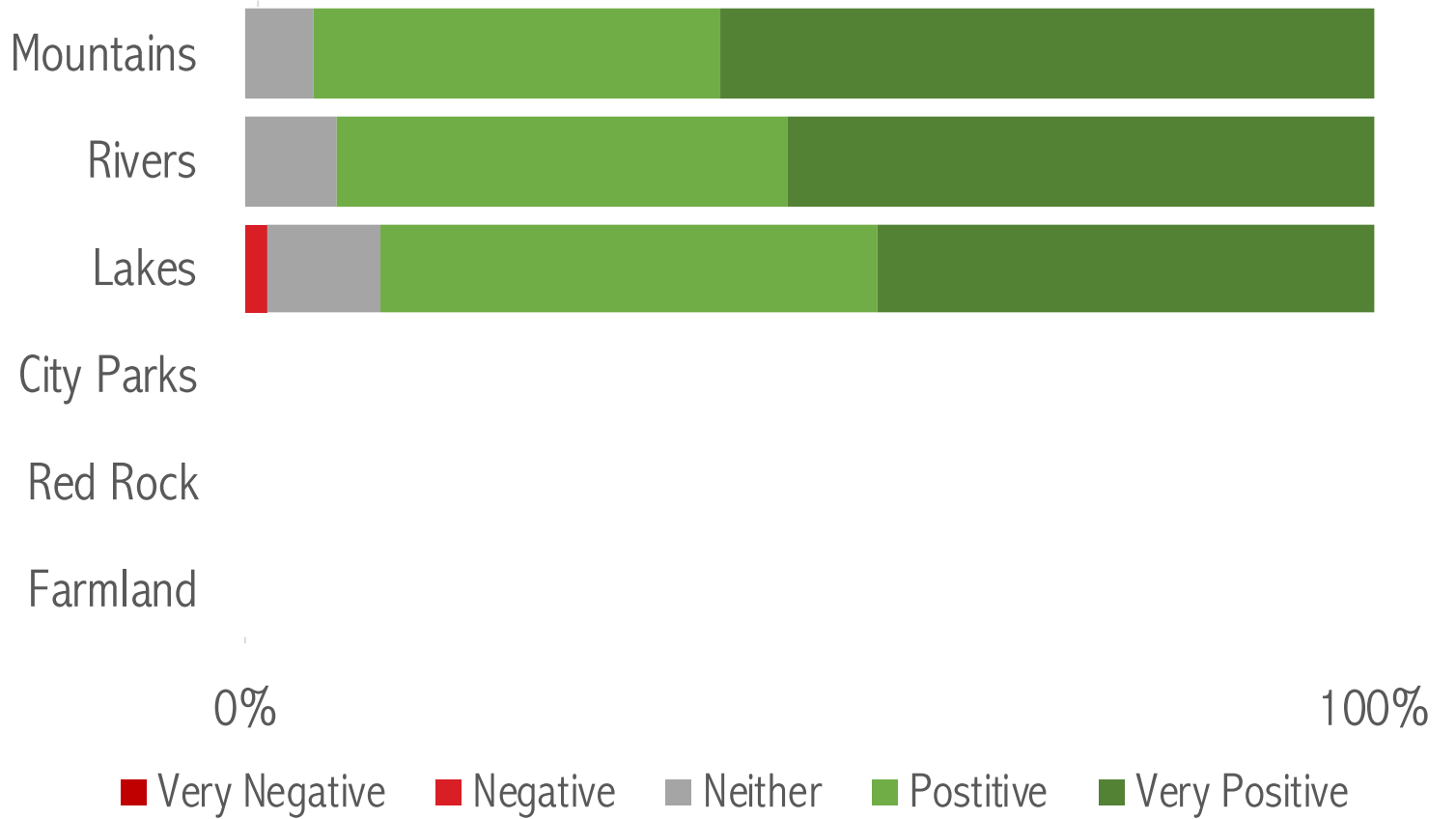


LANDFORMS' INFLUENCE ON WELLBEING



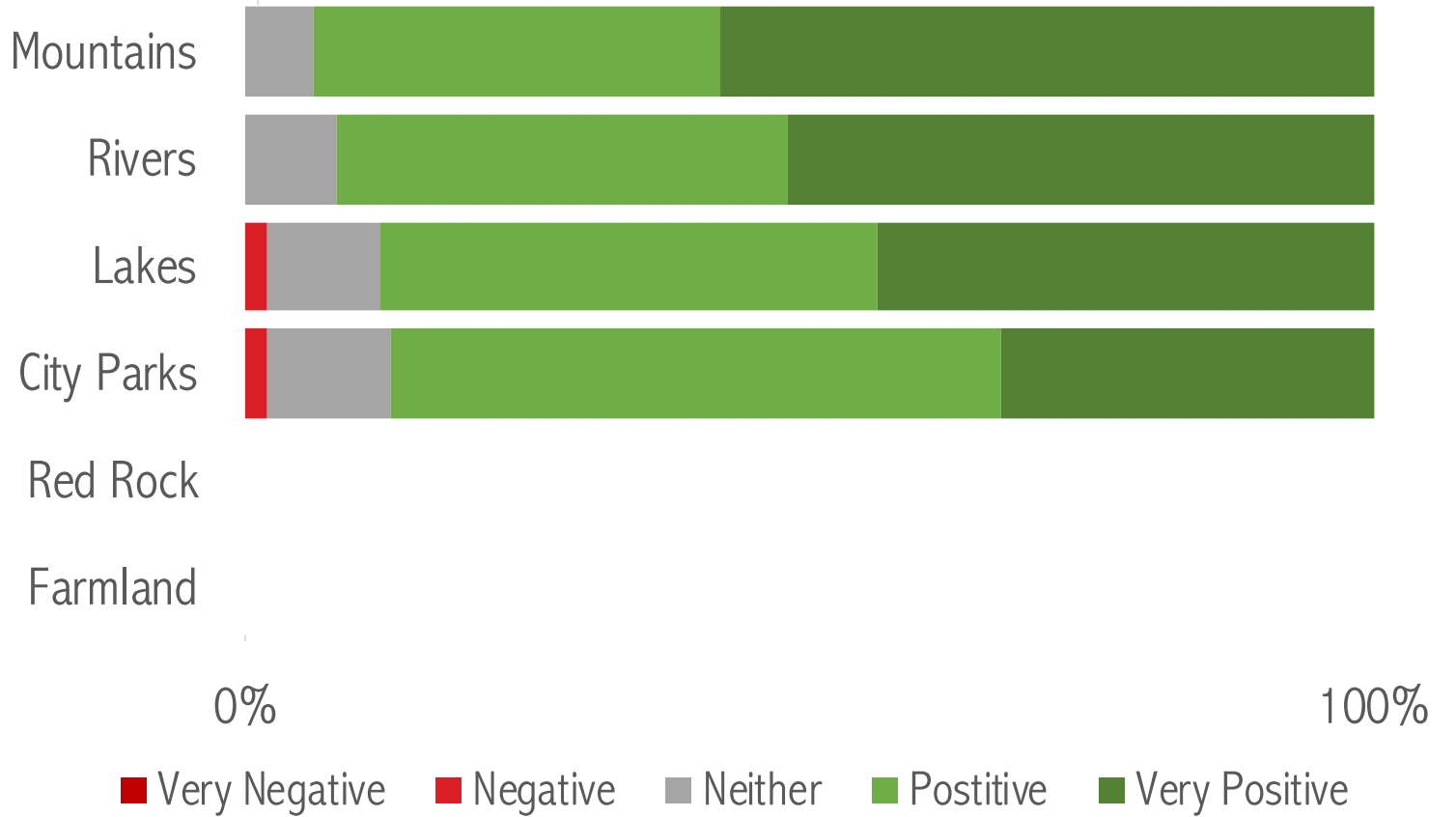


LANDFORMS' INFLUENCE ON WELLBEING



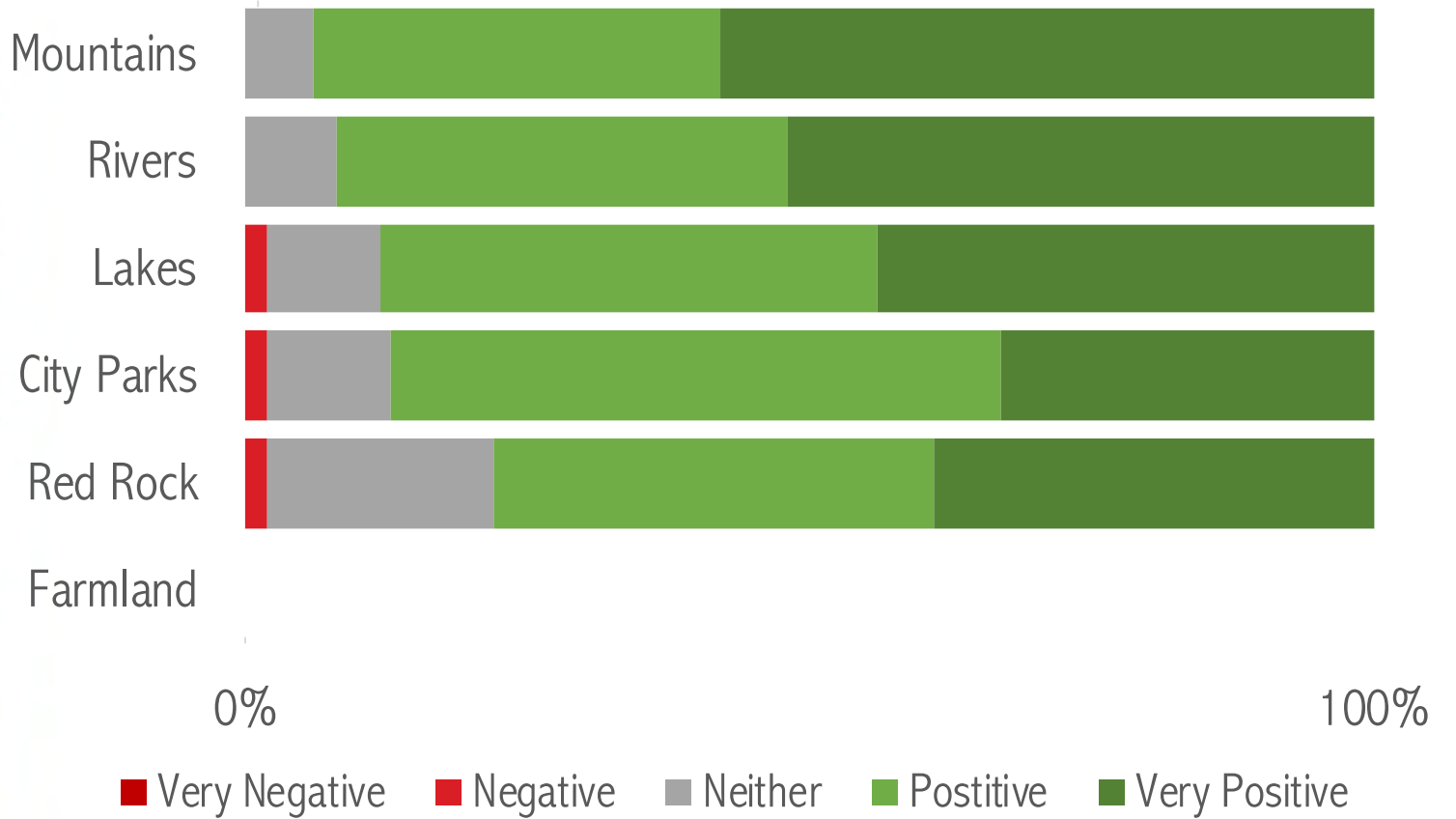


LANDFORMS' INFLUENCE ON WELLBEING



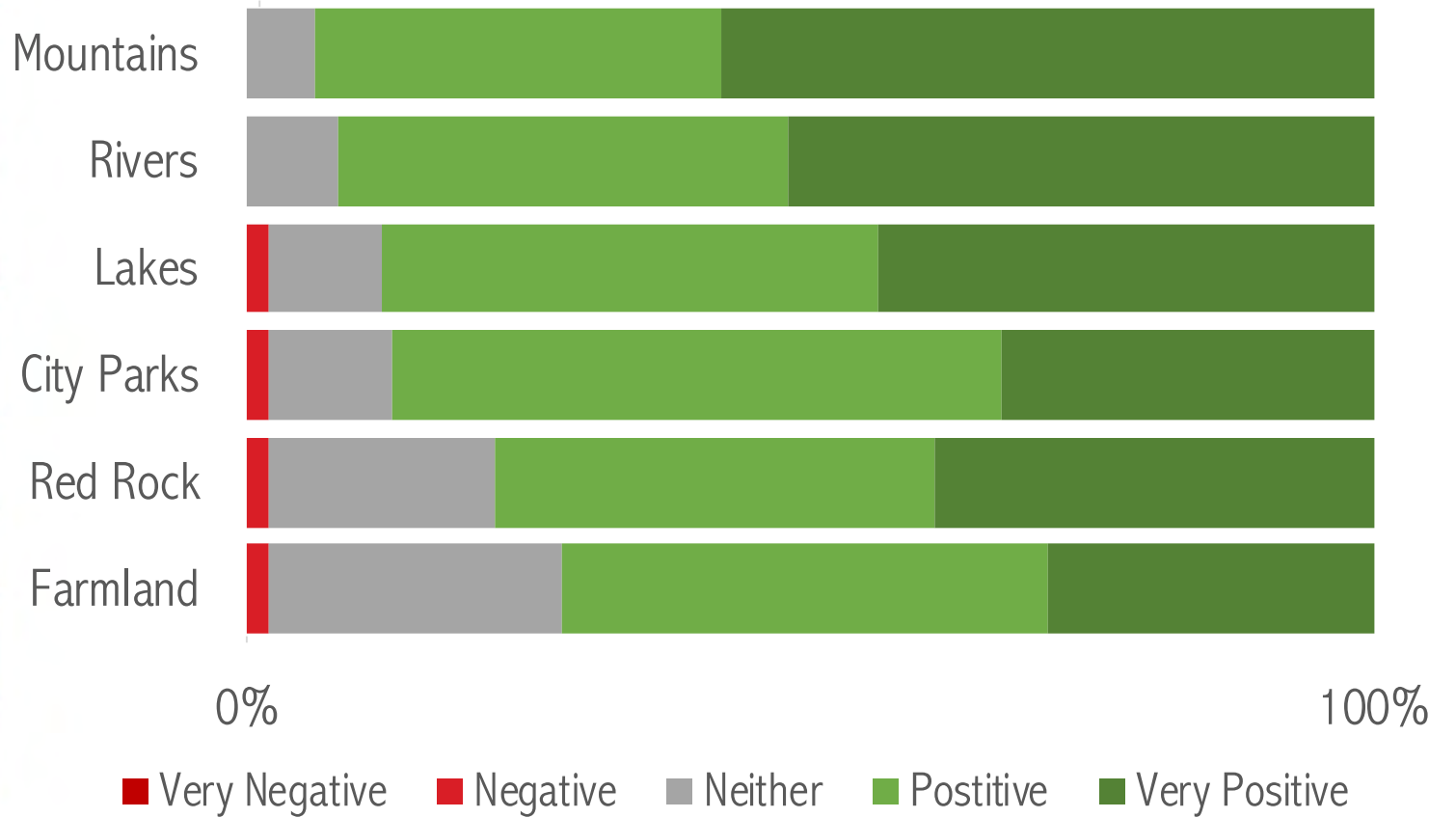


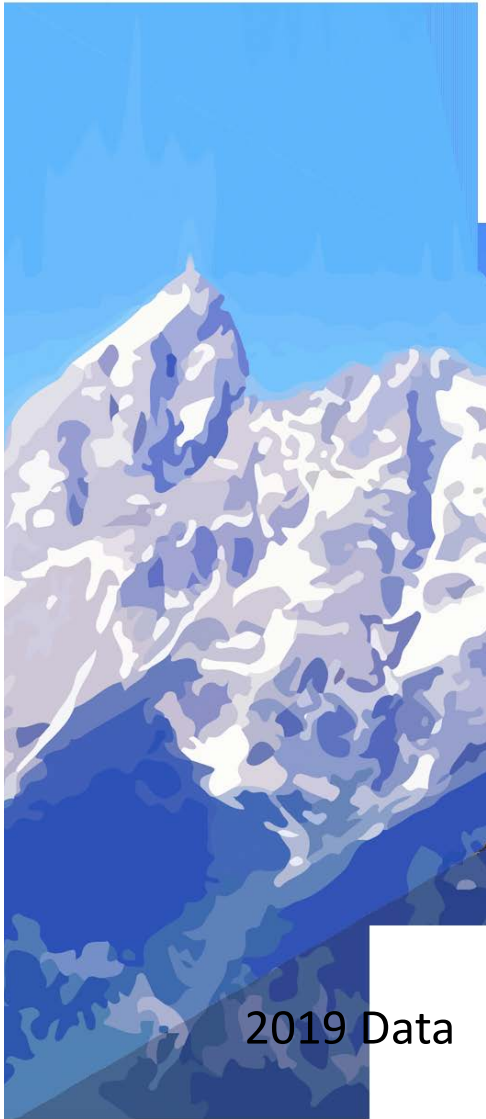
LANDFORMS' INFLUENCE ON WELLBEING





LANDFORMS' INFLUENCE ON WELLBEING





LANDFORMS' INFLUENCE ON WELLBEING

Mountains

Rivers

Lakes

City Parks

Red Rock

Farmland

1

2

3

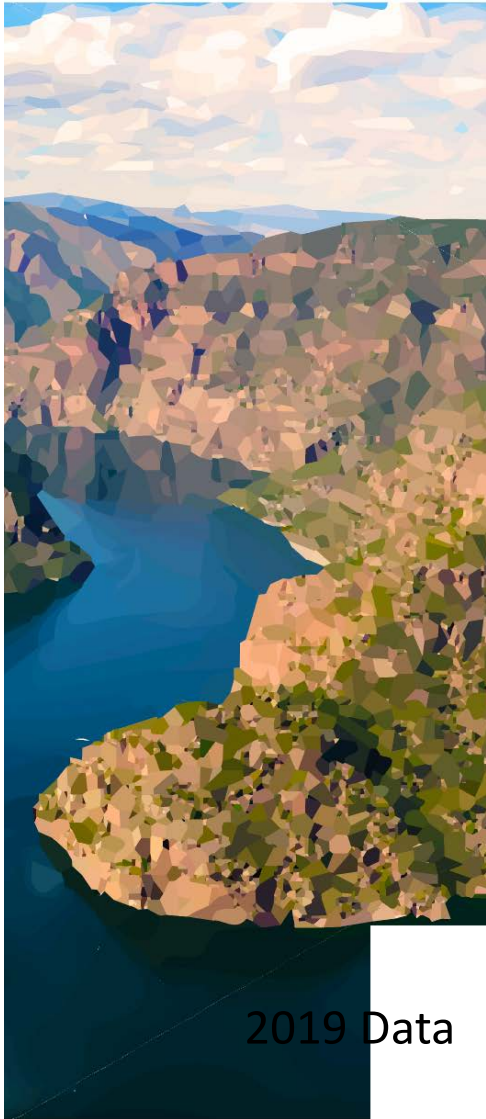
4

5

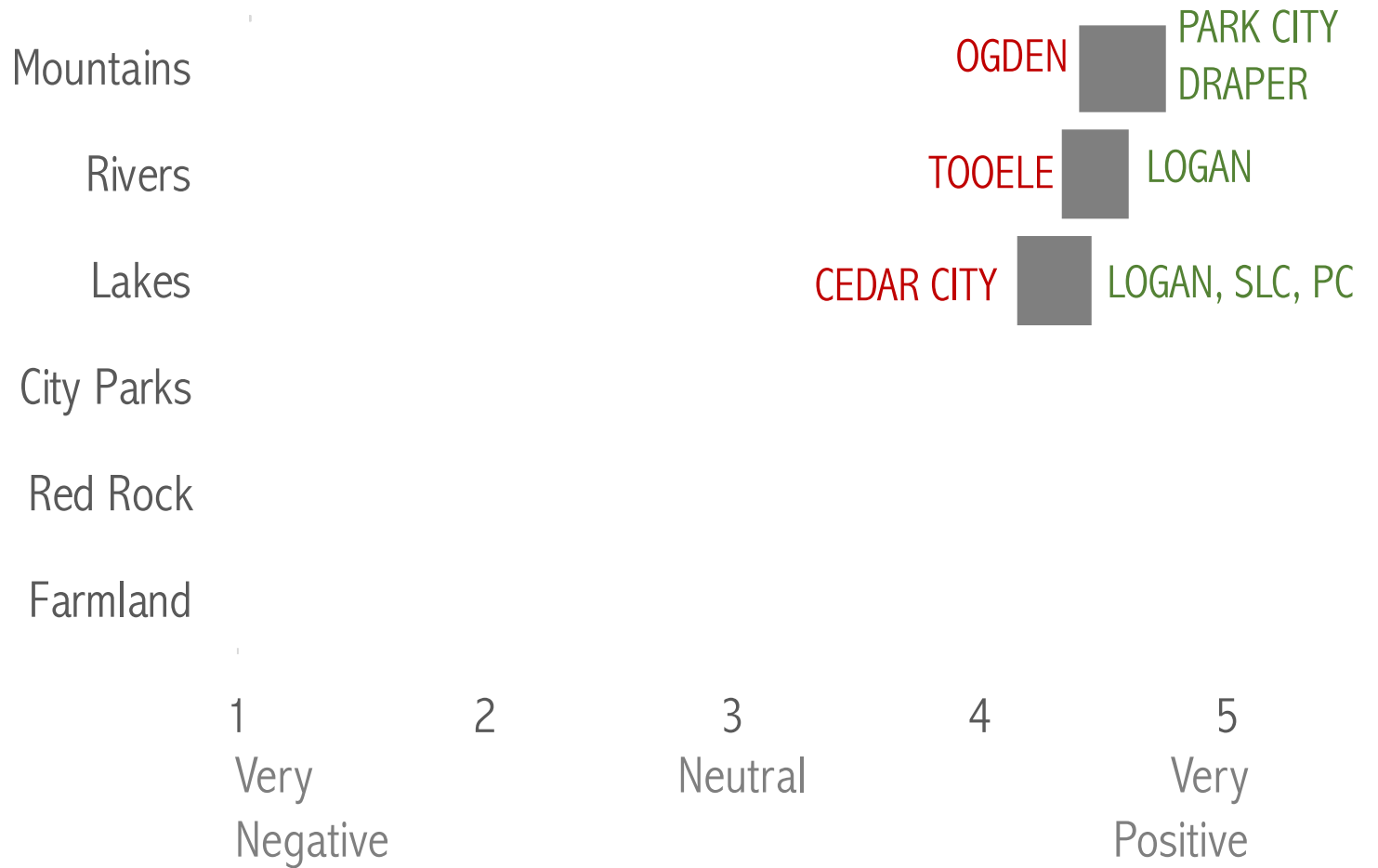
Very
Negative

Neutral

Very
Positive

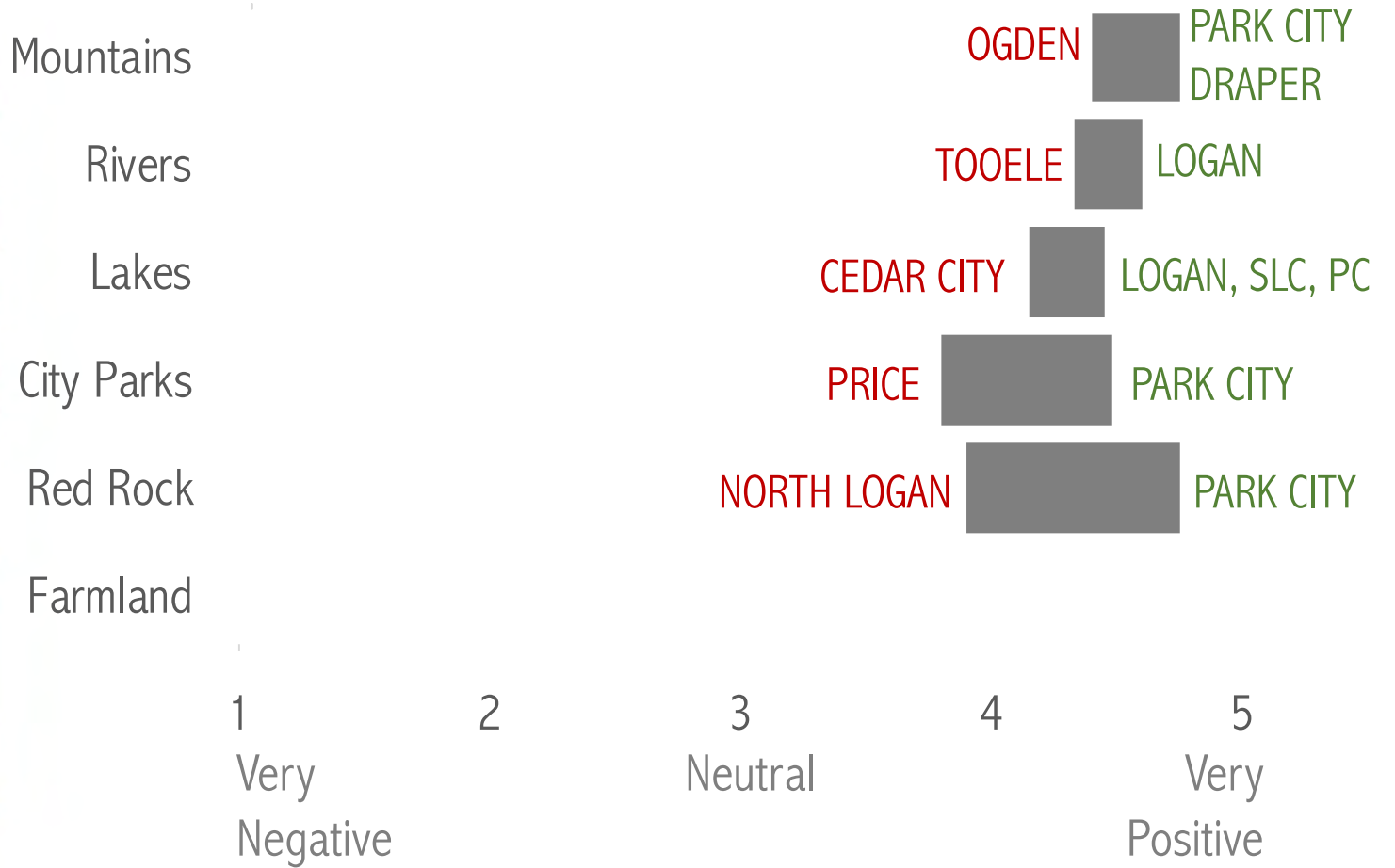


LANDFORMS' INFLUENCE ON WELLBEING



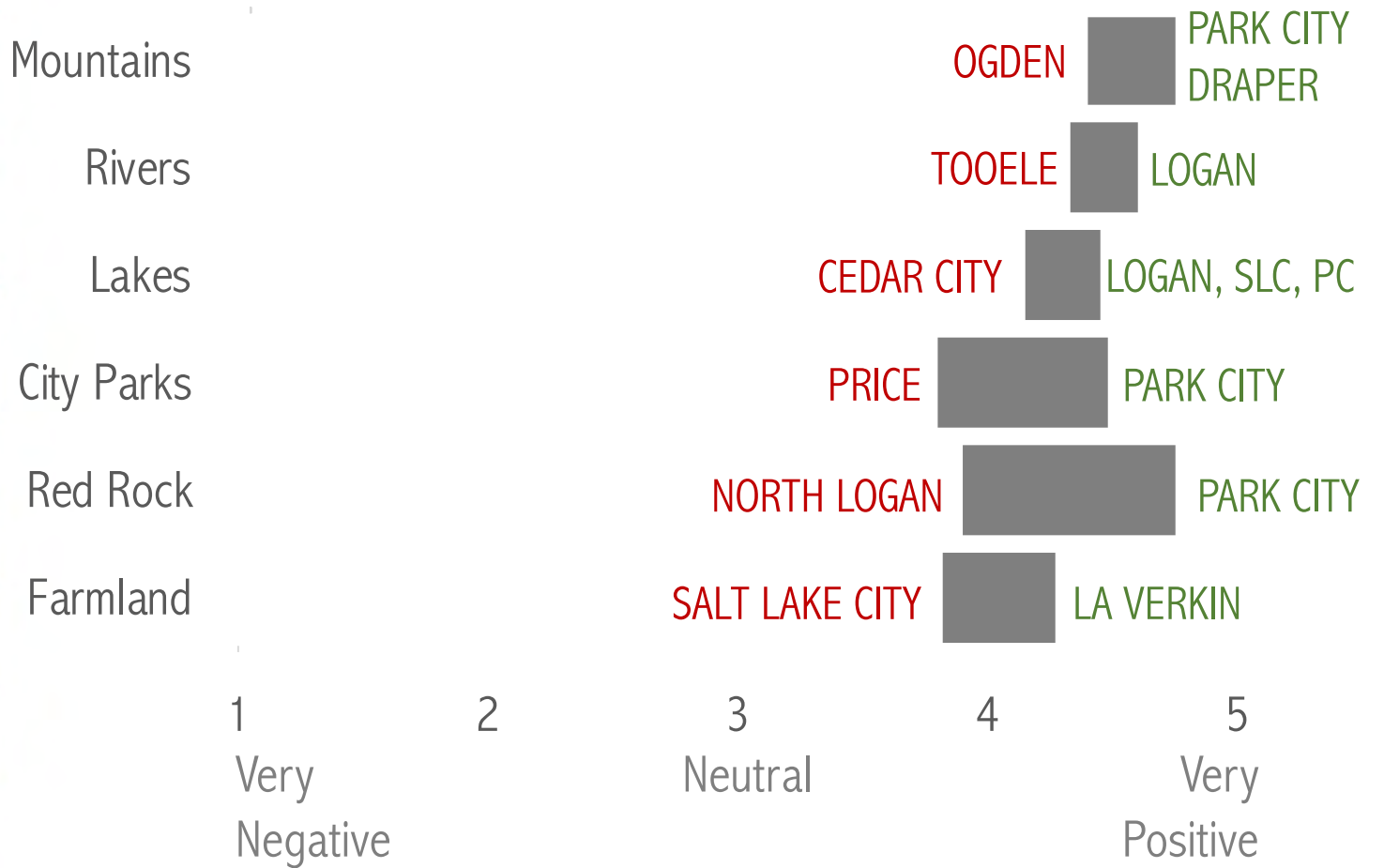


LANDFORMS' INFLUENCE ON WELLBEING



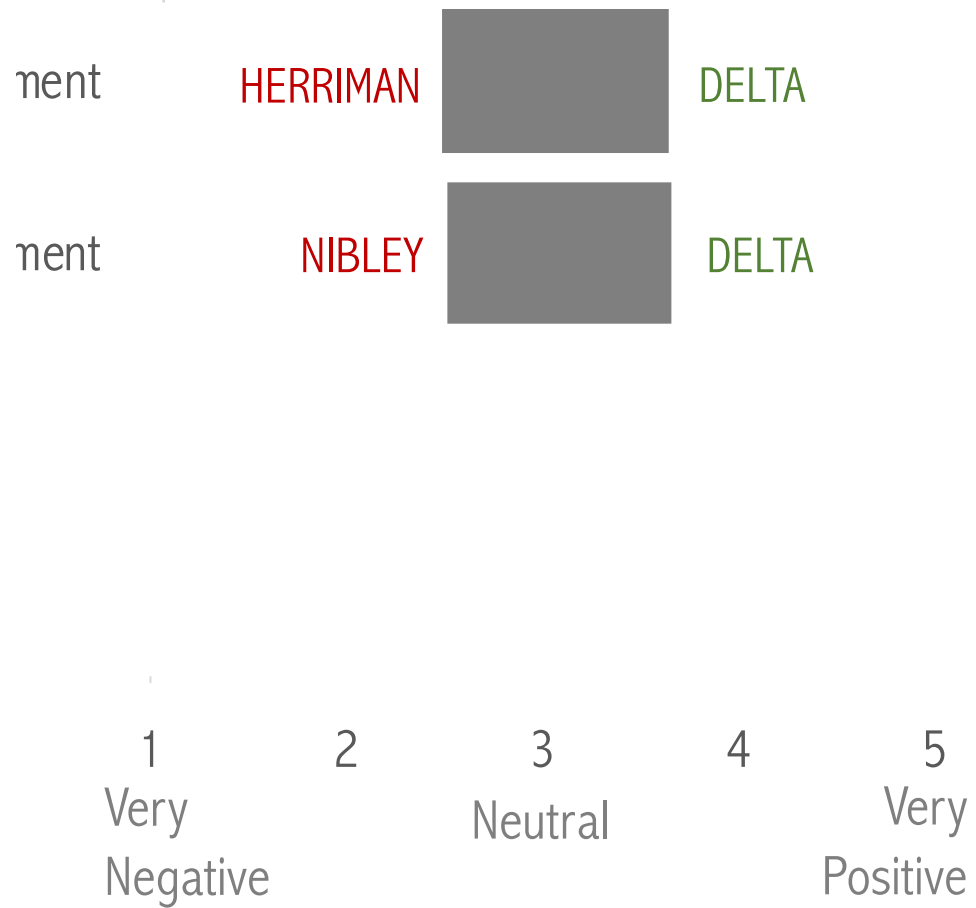


LANDFORMS' INFLUENCE ON WELLBEING



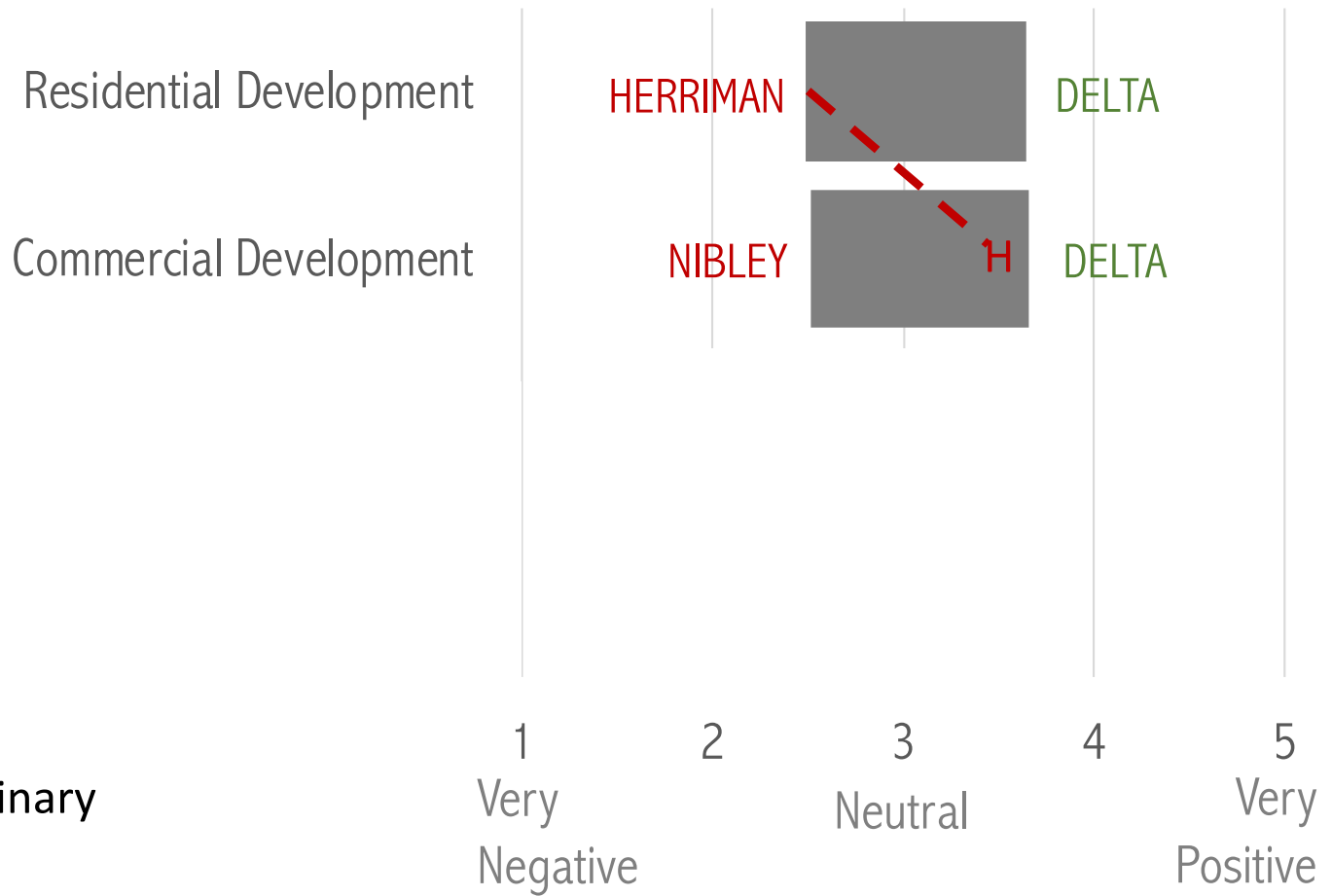


S' INFLUENCE ON WELLBEING



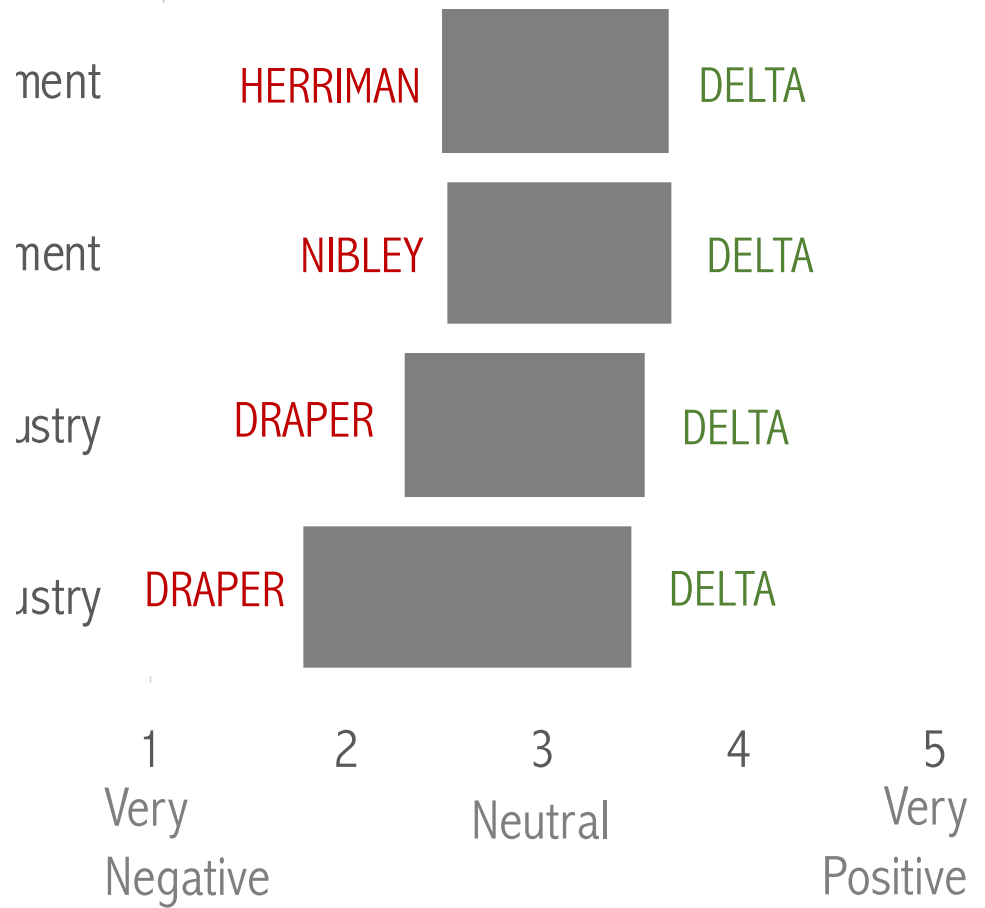


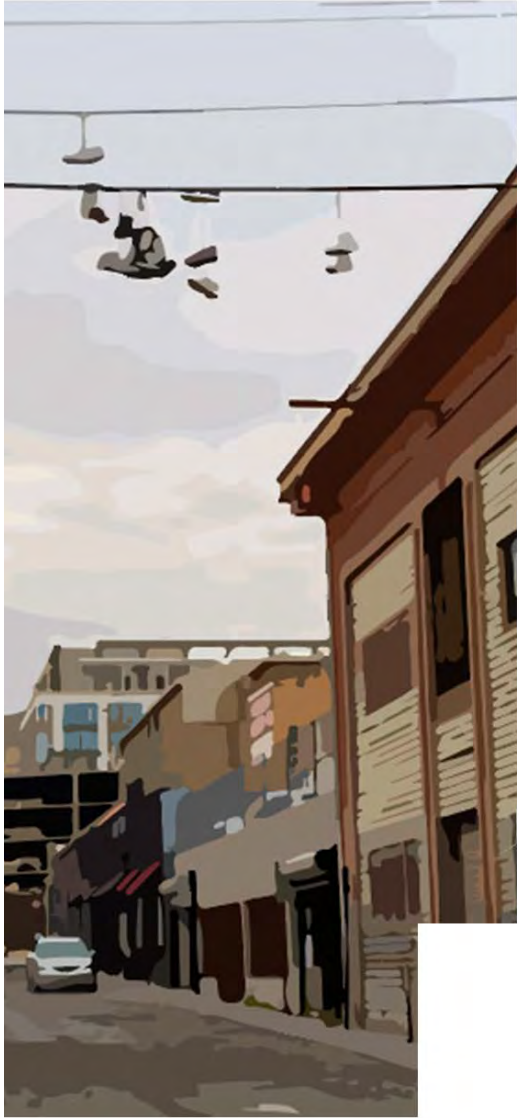
LANDFORMS' INFLUENCE ON WELLBEING



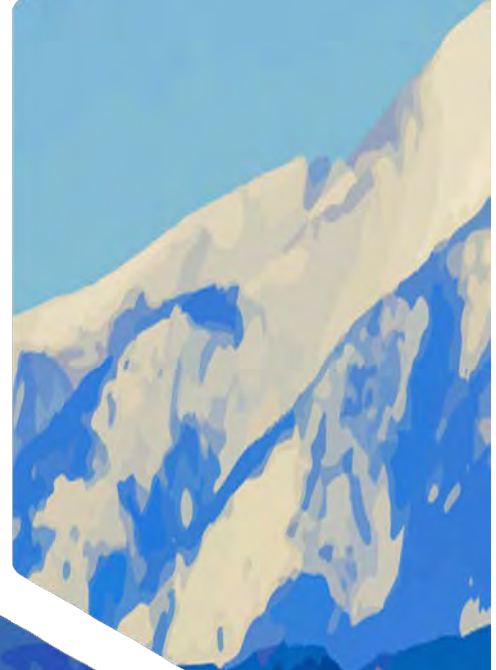
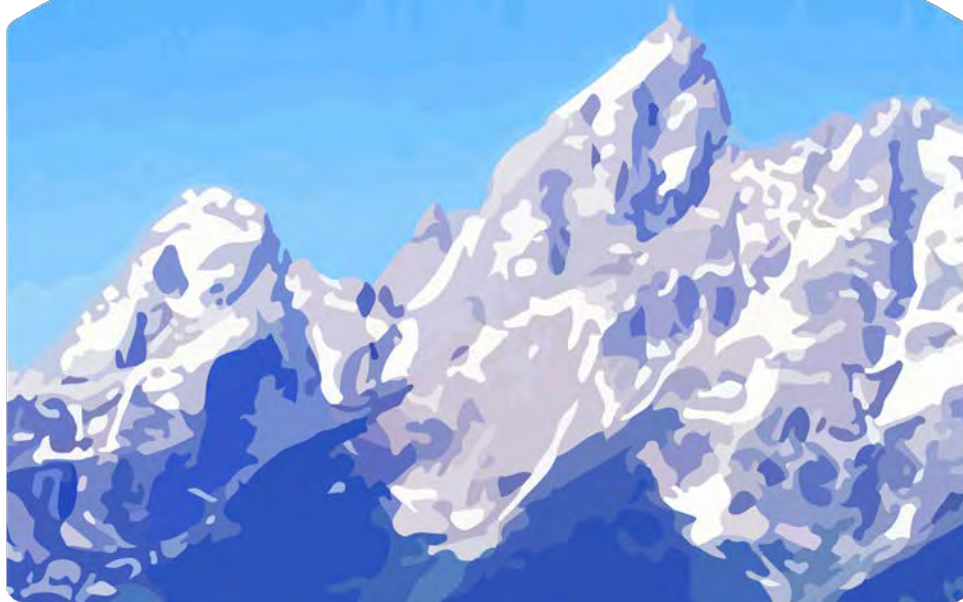


S' INFLUENCE ON WELLBEING





MOUNTAINS
AND
WELLBEING



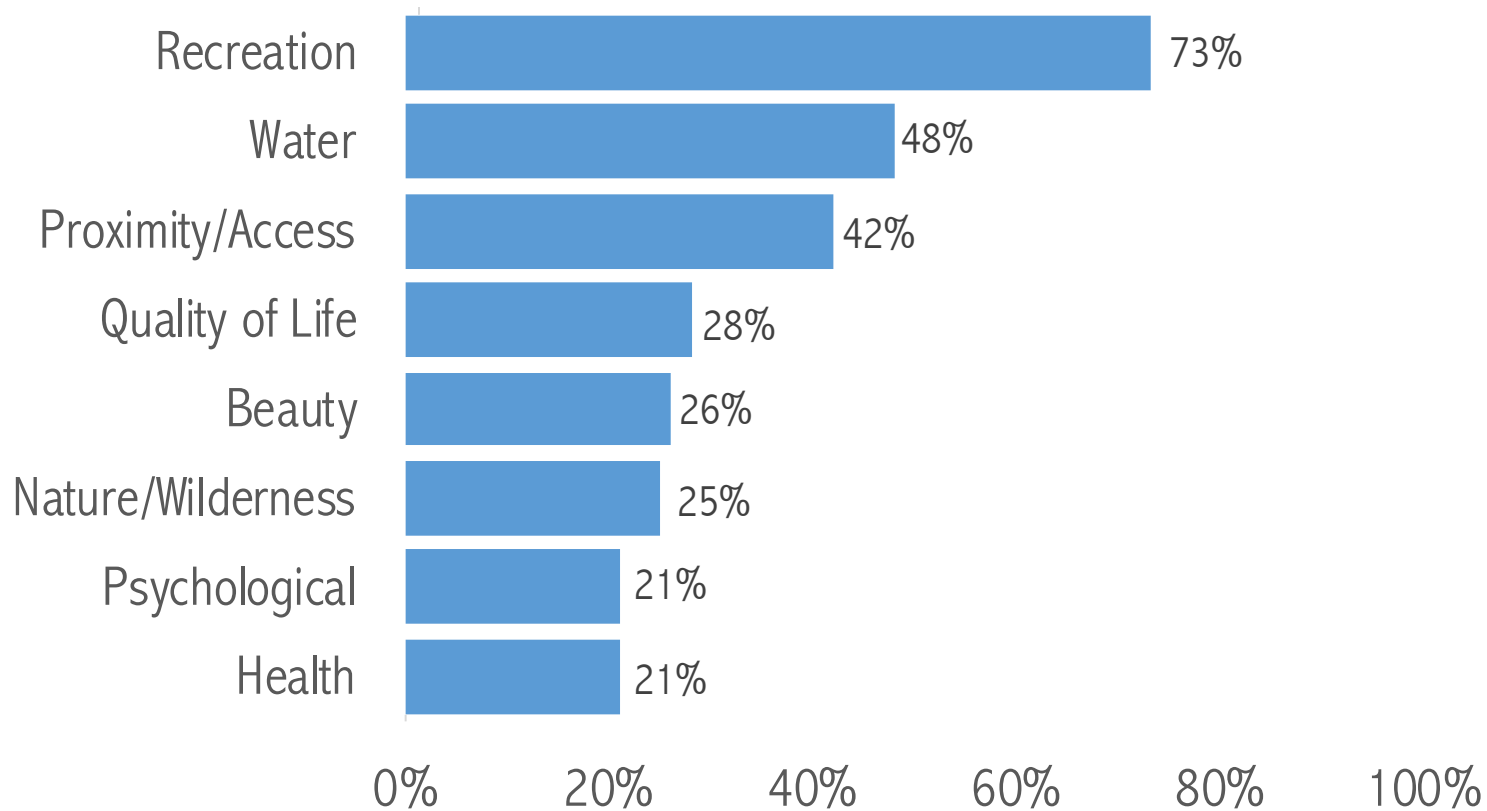



89 KEY INFORMANT INTERVIEWS

| | Northern Wasatch | Central Wasatch | Wasatch Front | Wasatch Back | Southern Wasatch |
|---------------------------|------------------|-----------------|---------------|--------------|------------------|
| Emergency Managers | ☺ ☺ | ☺ ☺ ☺ | ☺ | ☺ | ☺ |
| Planners | ☺ ☺ | ☺ ☺ ☺ ☺ ☺ | ☺ ☺ ☺ | ☺ ☺ ☺ ☺ | ☺ ☺ ☺ |
| Natural Resource Managers | ☺ ☺ ☺ ☺ ☺ ☺ | ☺ | ☺ ☺ ☺ ☺ ☺ | ☺ ☺ ☺ | ☺ ☺ ☺ |
| Environmental Interests | ☺ ☺ ☺ ☺ ☺ | ☺ ☺ | ☺ ☺ ☺ | ☺ ☺ ☺ | ☺ |
| Recreational Interests | ☺ ☺ ☺ | ☺ ☺ ☺ | ☺ ☺ ☺ | ☺ ☺ ☺ | ☺ ☺ ☺ |
| Business / Real Estate | ☺ ☺ ☺ ☺ | ☺ ☺ ☺ | ☺ ☺ ☺ | ☺ ☺ ☺ | ☺ ☺ ☺ |




MOUNTAINS' INFLUENCE ON WELLBEING





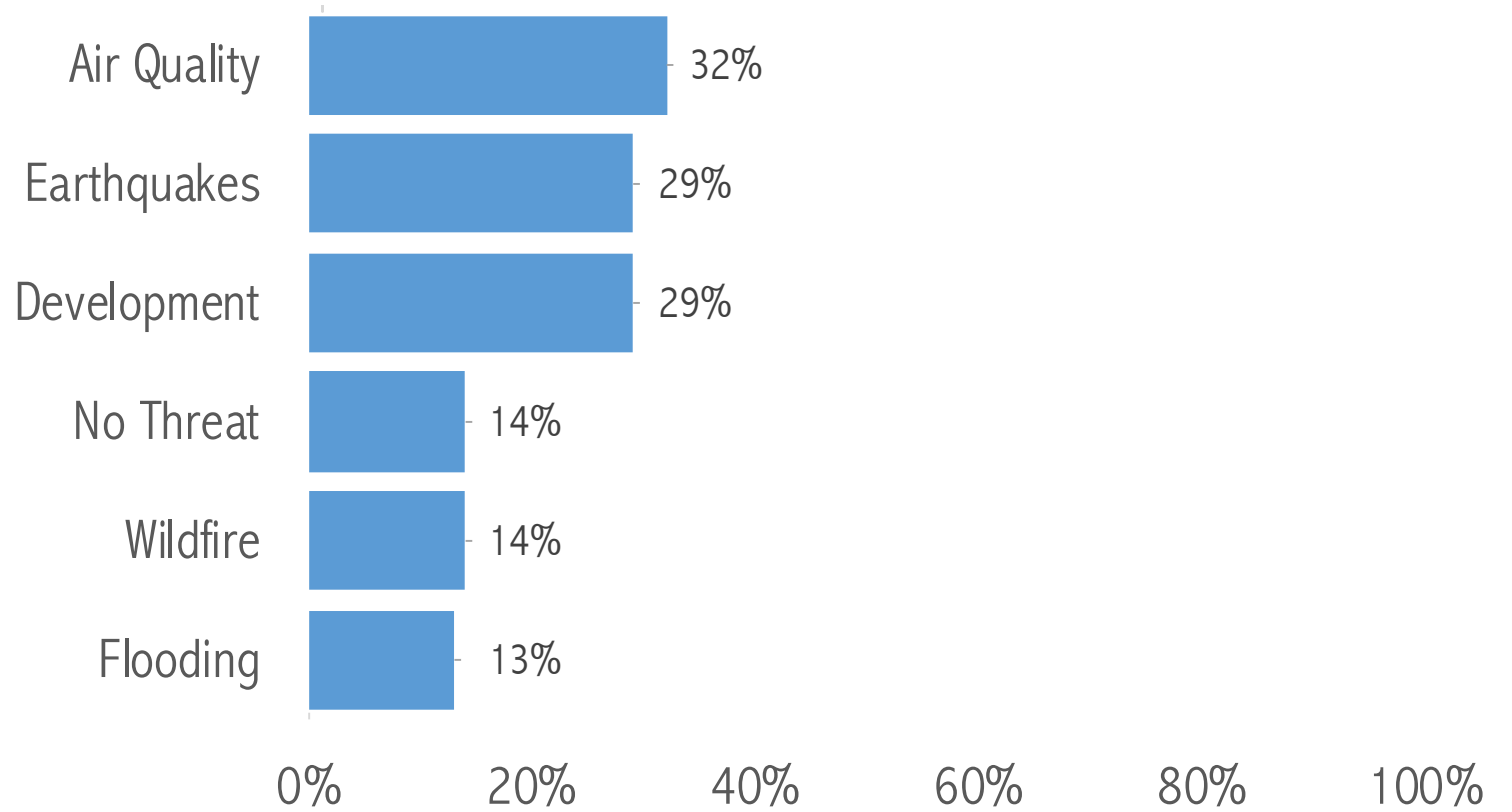
“Most people live here because of the mountains and the culture that we have and the **outdoor lifestyle.**”

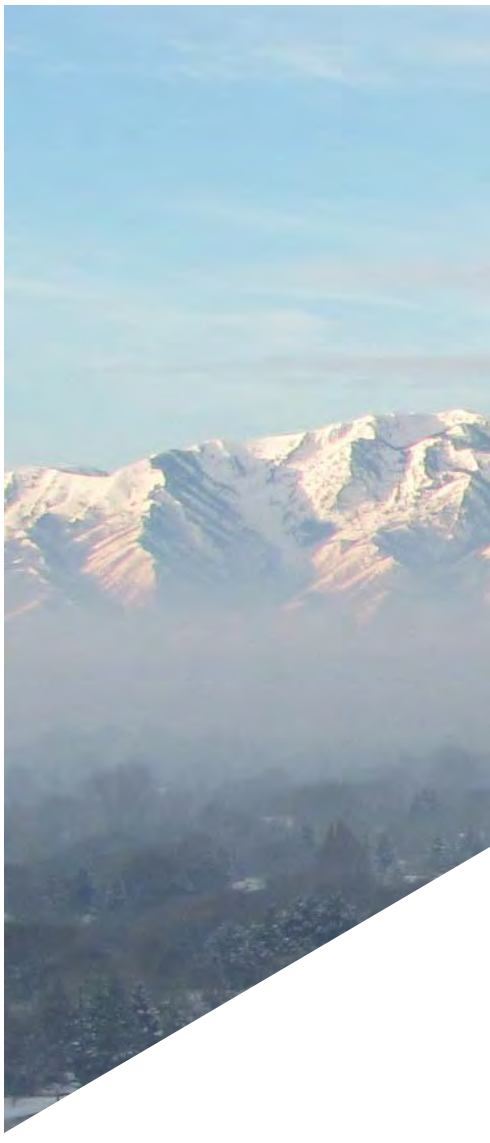


“They are also really key because of our state’s recreation economy, a **\$12 billion economy.**”

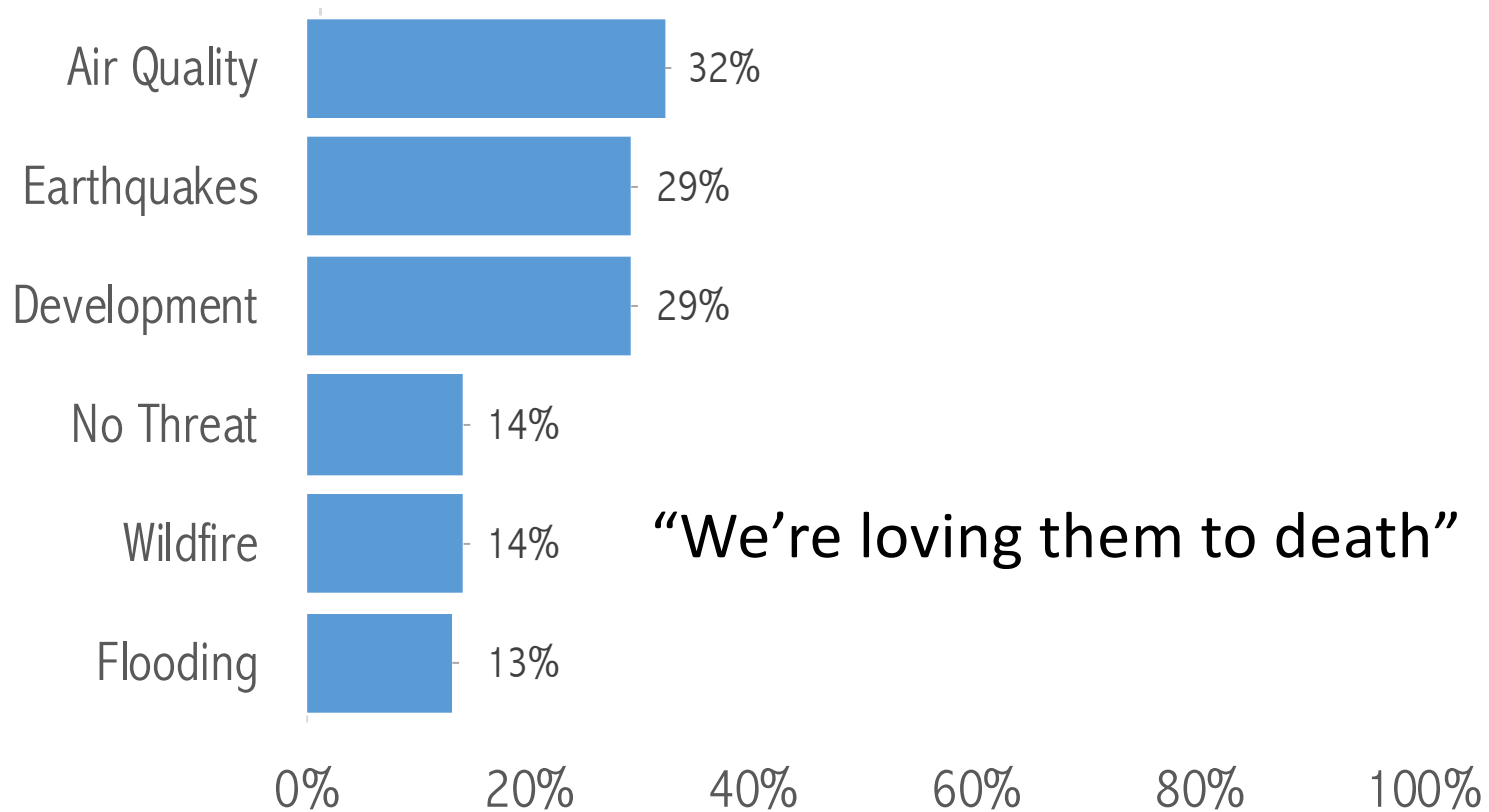


MOUNTAINS' THREATS TO WELLBEING





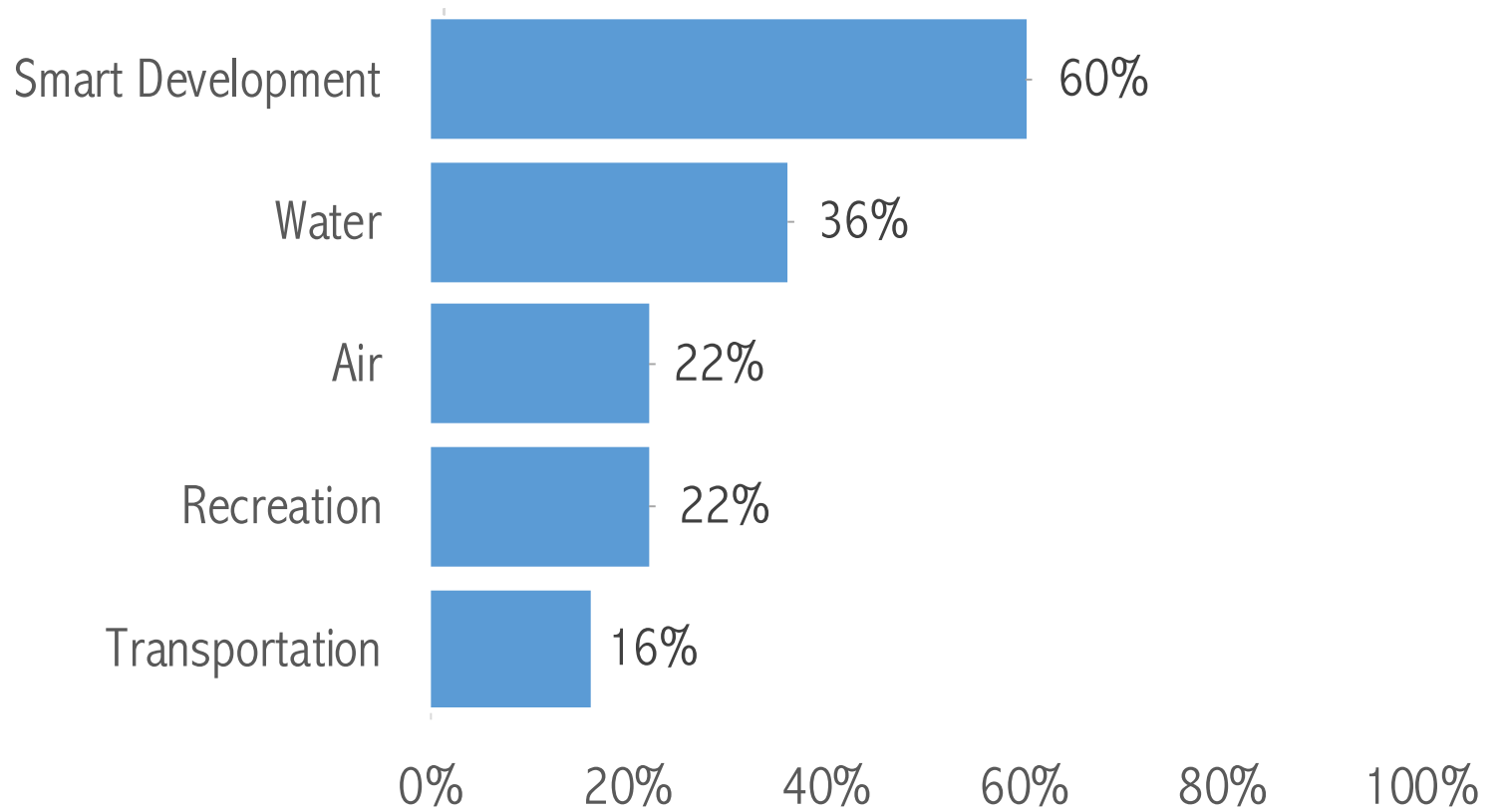
MOUNTAINS' THREATS TO WELLBEING



“We’re loving them to death”



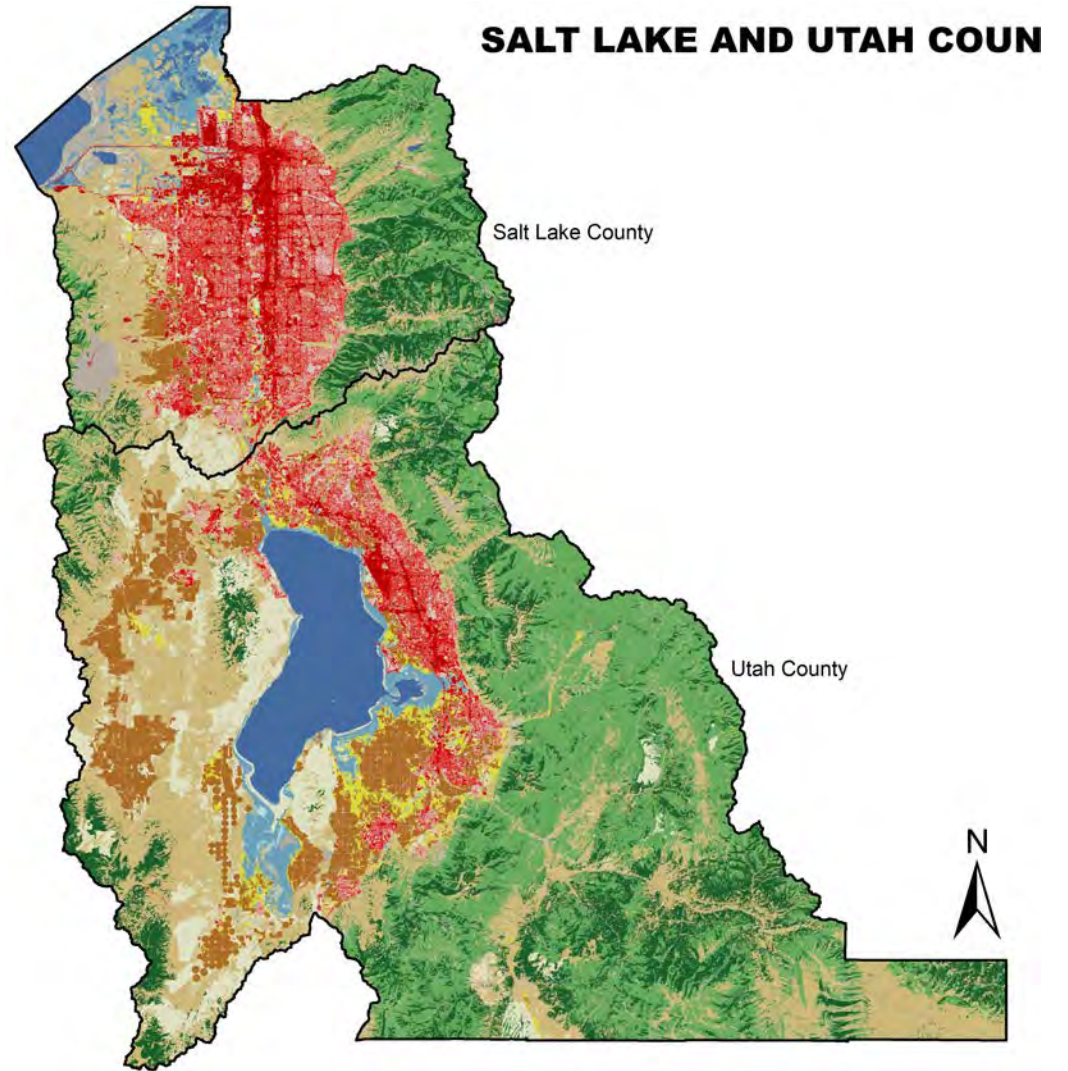
SUSTAINABILITY ISSUES ON WASATCH FRONT

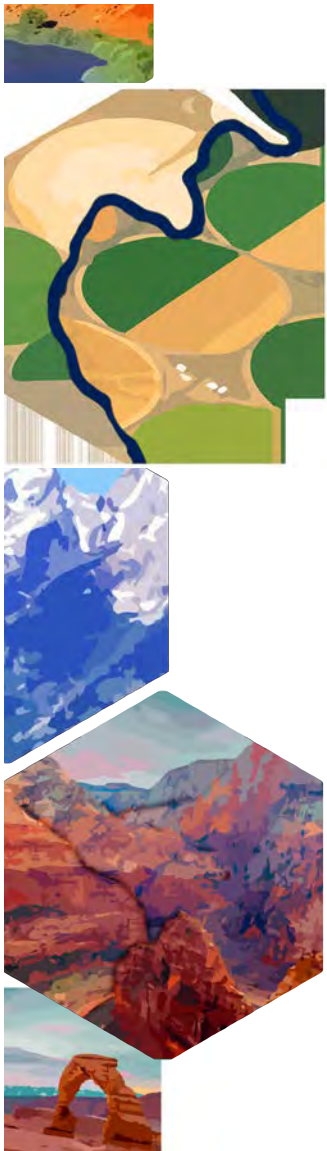




LAND COVER

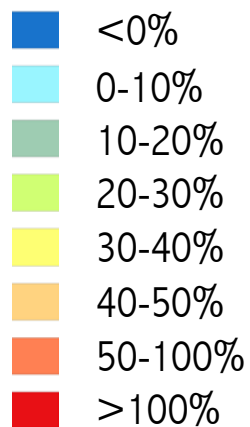
2016 (SALT LAKE
& UTAH COUNTIES)



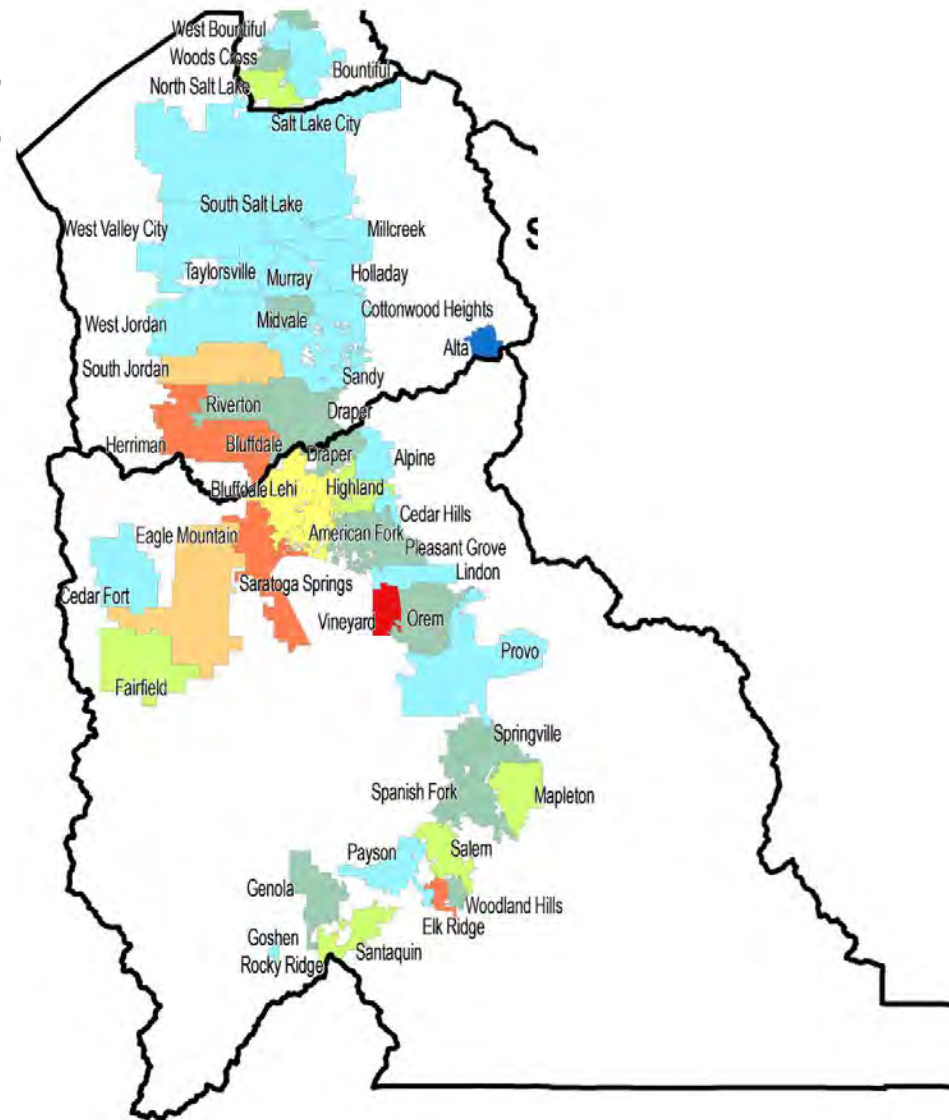


POPULATION CHANGE SALT LAKE & UTAH COUNTIES

2010-2017



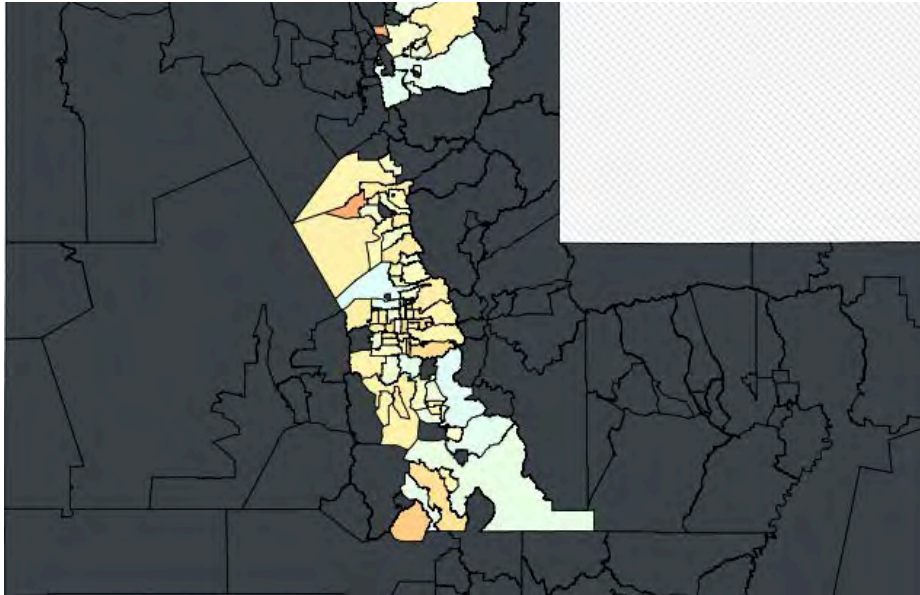
Vineyard







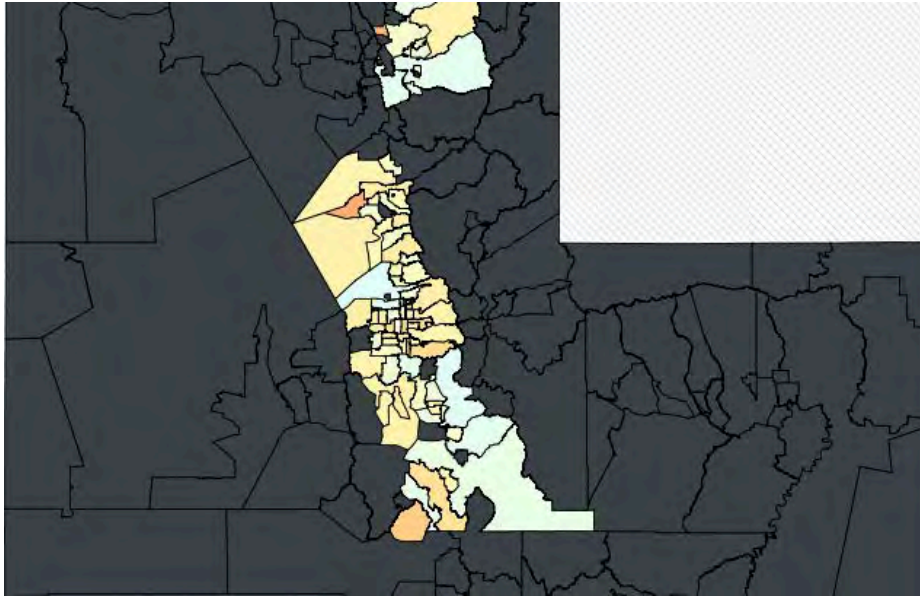
© Ryan Choi



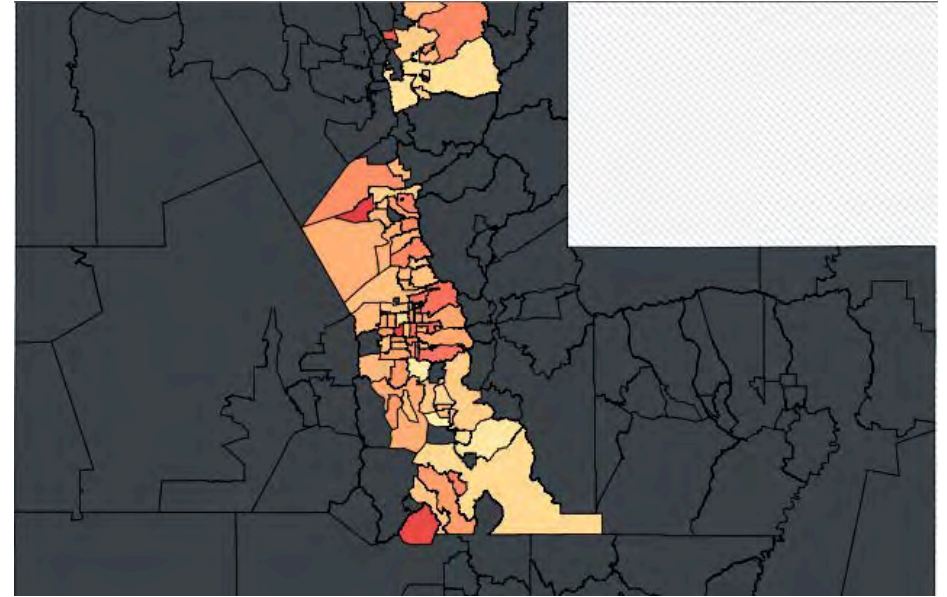
Agreement that
water supply is
adequate to meet
current city needs



From Utah Water Survey 2015
<http://data.iutahepscor.org/surveys/survey/UTWS>



Agreement that
water supply is
adequate to meet
current city needs

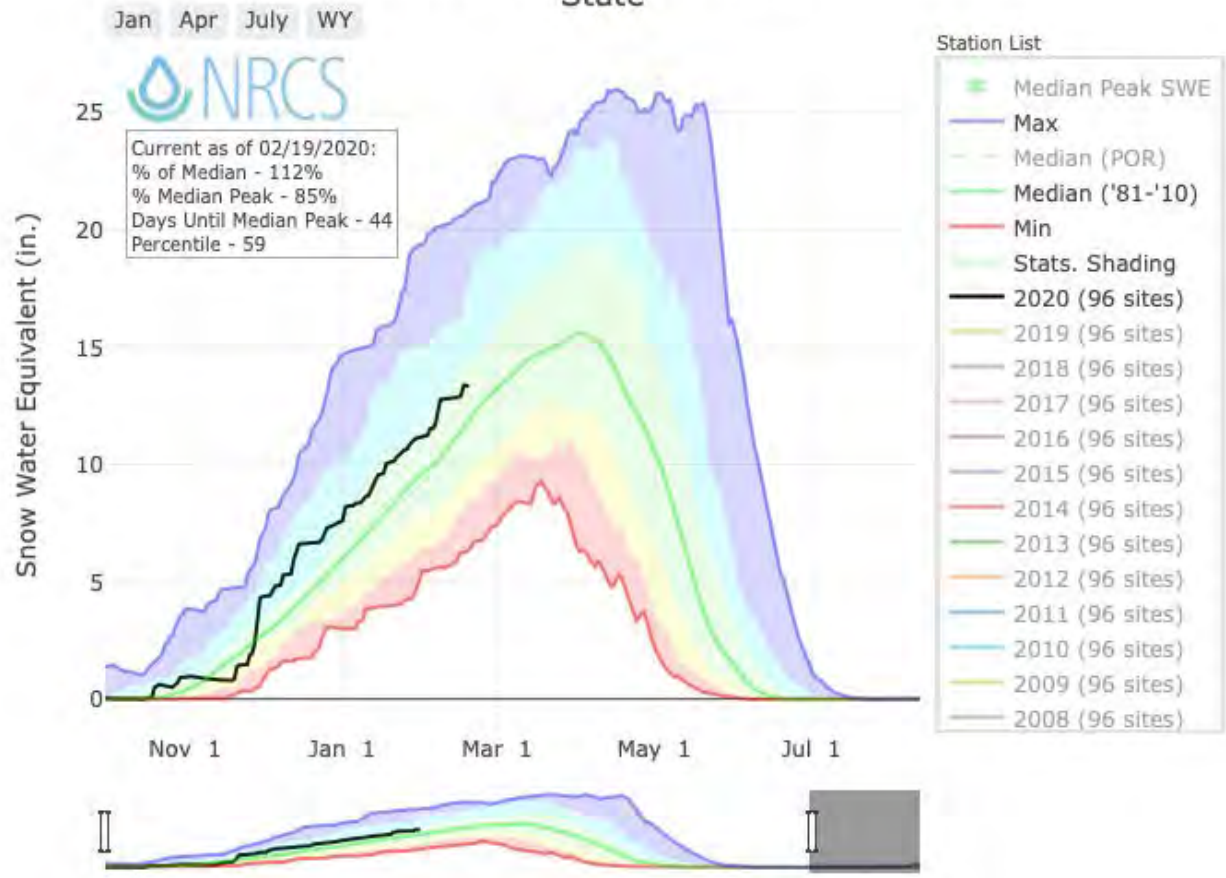


Agreement that
water supply is
adequate to meet
future city needs

From Utah Water Survey 2015

<http://data.iutahepscor.org/surveys/survey/UTWS>

Snow Water Equivalent in State



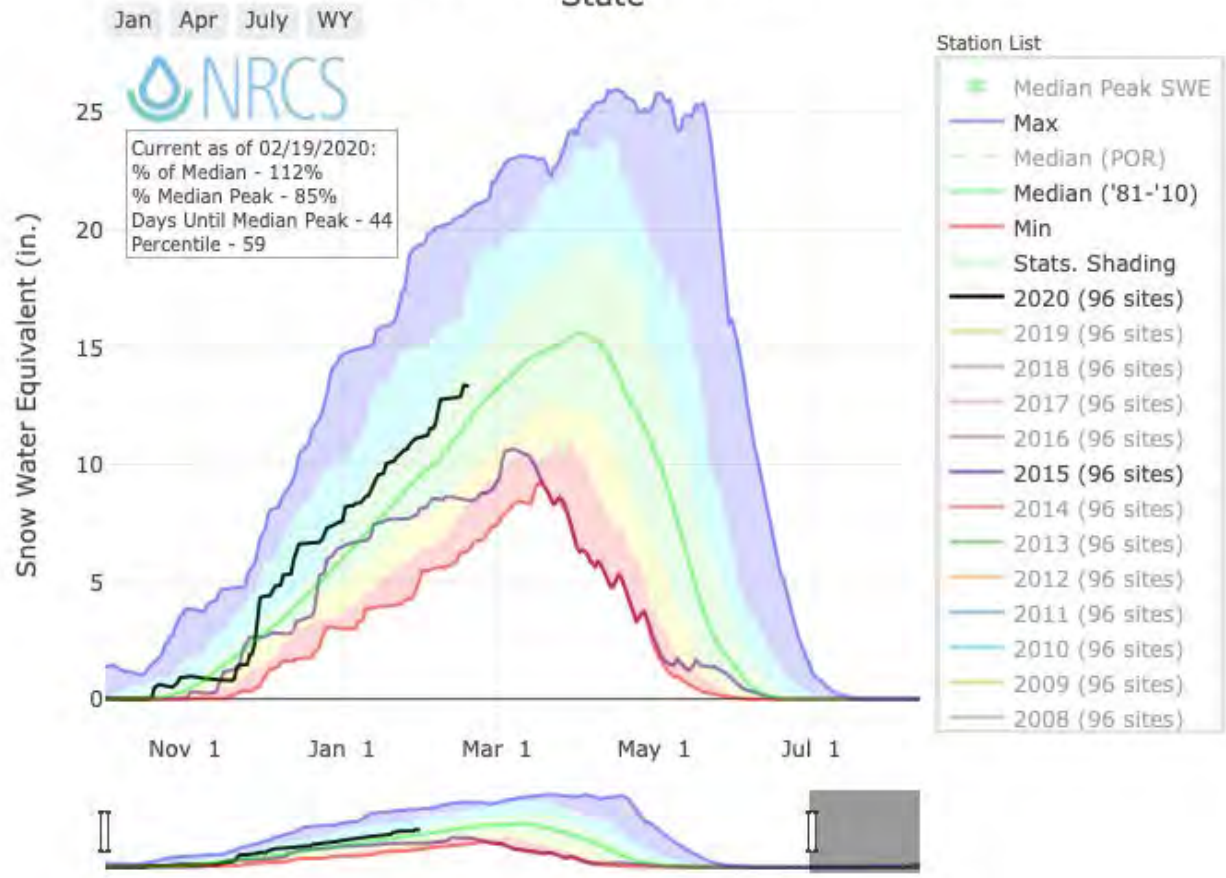
Statistical shading breaks at 10th, 30th, 50th, 70th, and 90th Percentiles.

For more information visit: [30 year normals calculation description.](#)

Source: NRCS Snow Survey

<https://www.nrcs.usda.gov/wps/portal/nrcs/detail/ut/snow/products/?cid=nrcseprd1330021>

Snow Water Equivalent in State



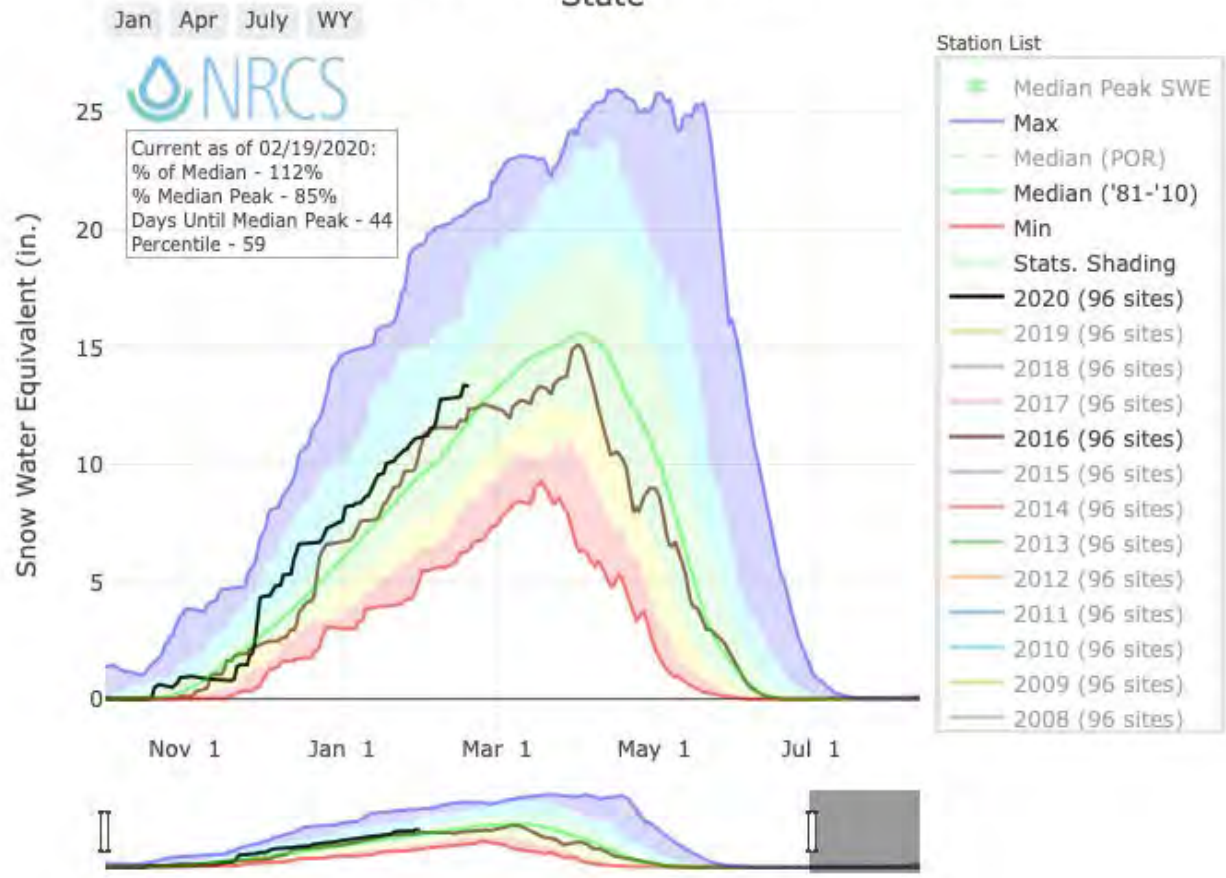
Statistical shading breaks at 10th, 30th, 50th, 70th, and 90th Percentiles.

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Source: NRCS Snow Survey

<https://www.nrcs.usda.gov/wps/portal/nrcs/detail/ut/snow/products/?cid=nrcseprd1330021>

Snow Water Equivalent in State



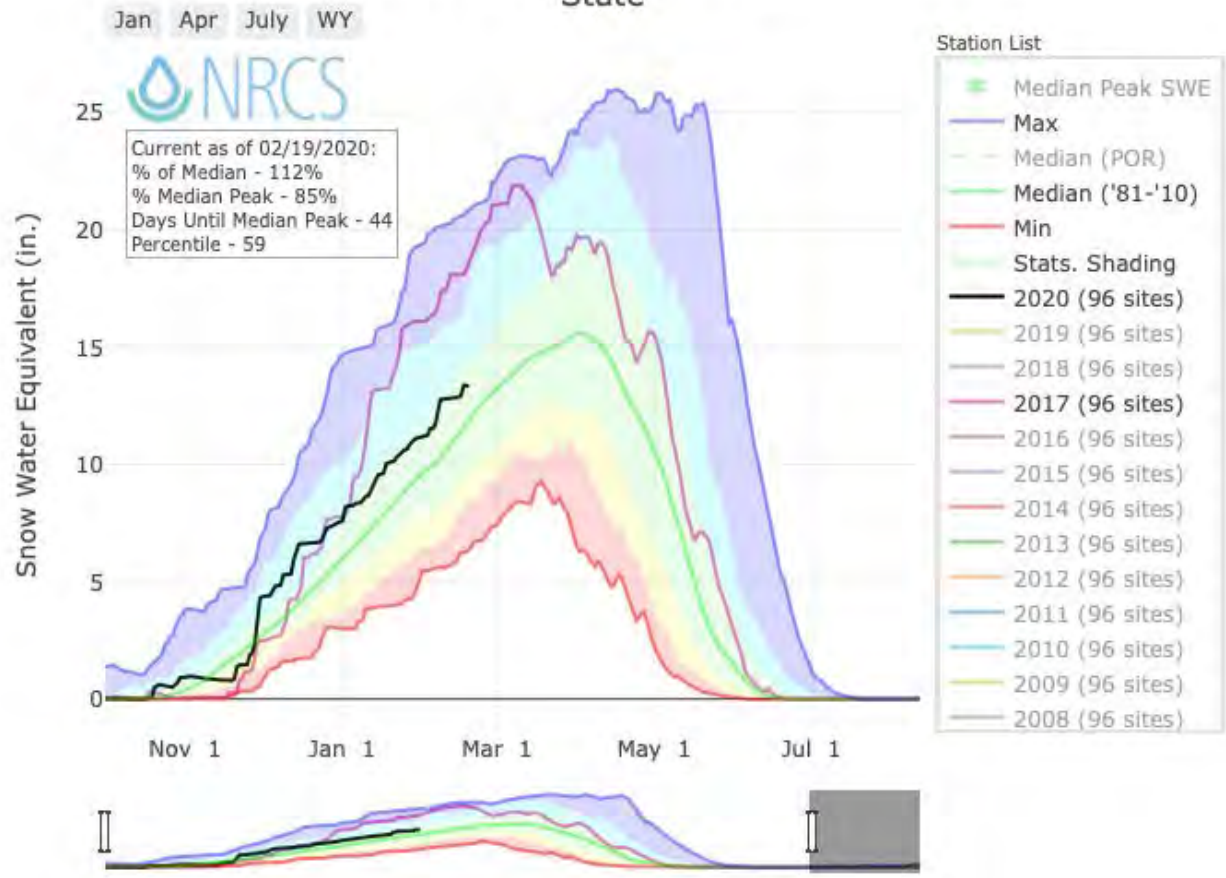
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Snow Water Equivalent in State



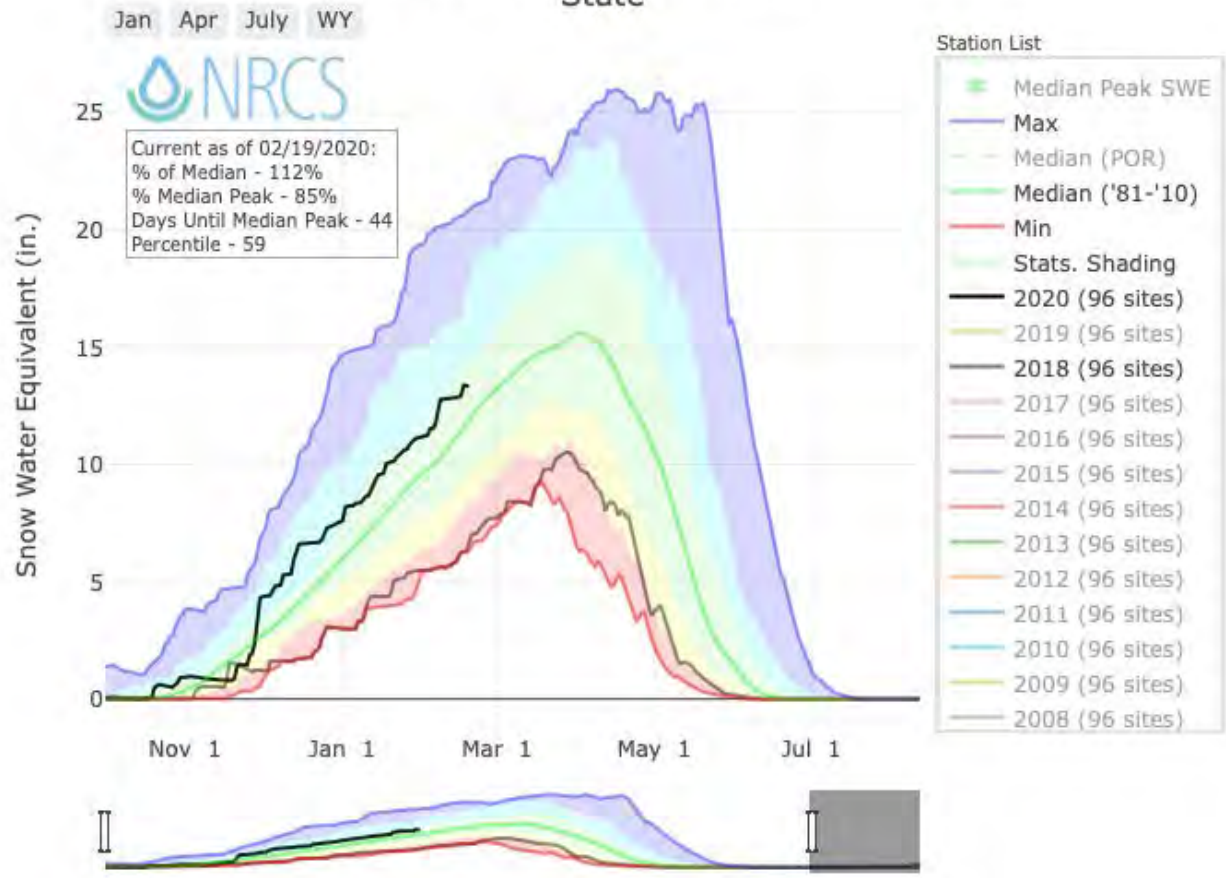
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Source: NRCS Snow Survey

<https://www.nrcs.usda.gov/wps/portal/nrcs/detail/ut/snow/products/?cid=nrcseprd1330021>

Snow Water Equivalent in State

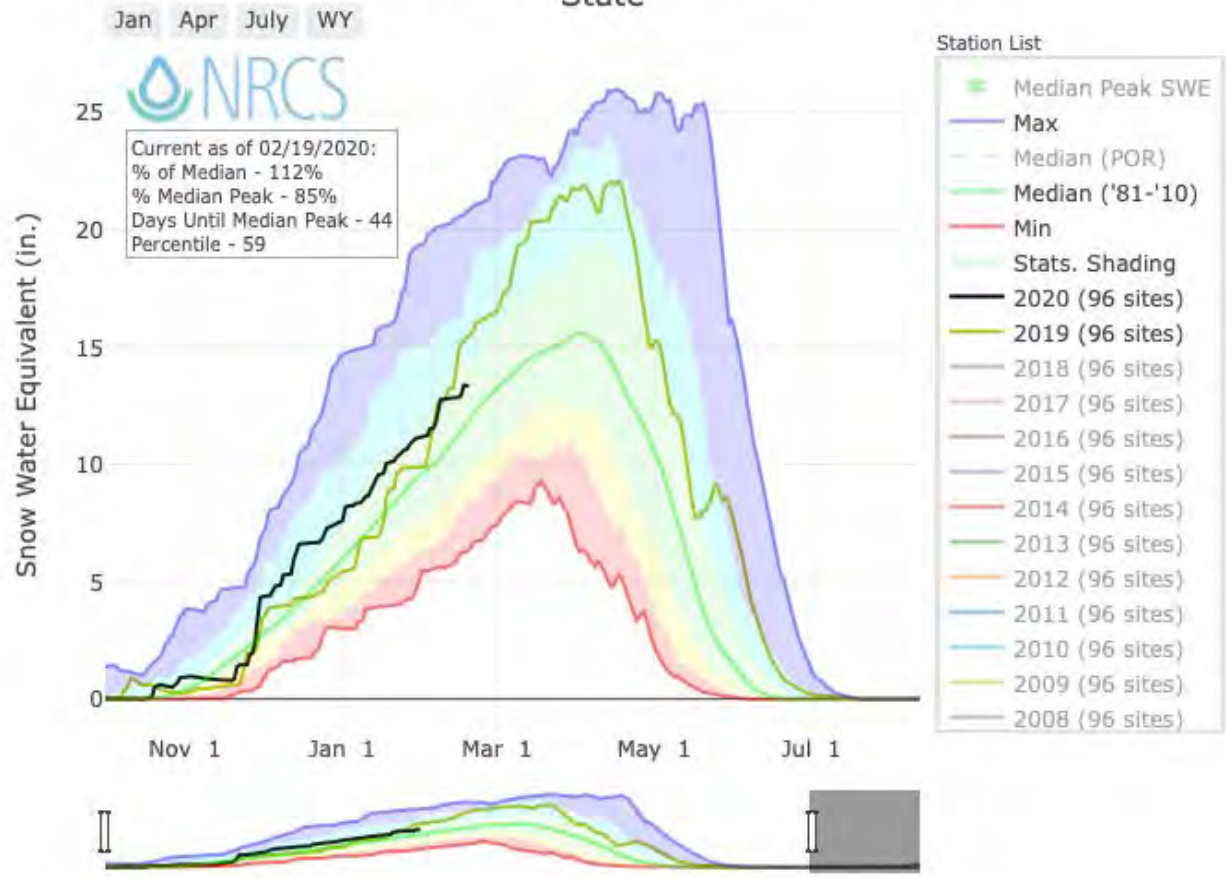


Statistical shading breaks at 10th, 30th, 50th, 70th, and 90th Percentiles.

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Source: NRCS Snow Survey
<https://www.nrcs.usda.gov/wps/portal/nrcs/detail/ut/snow/products/?cid=nrcseprd1330021>

Snow Water Equivalent in State



Statistical shading breaks at 10th, 30th, 50th, 70th, and 90th Percentiles.

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Source: NRCS Snow Survey
<https://www.nrcs.usda.gov/wps/portal/nrcs/detail/ut/snow/products/?cid=nrcseprd1330021>

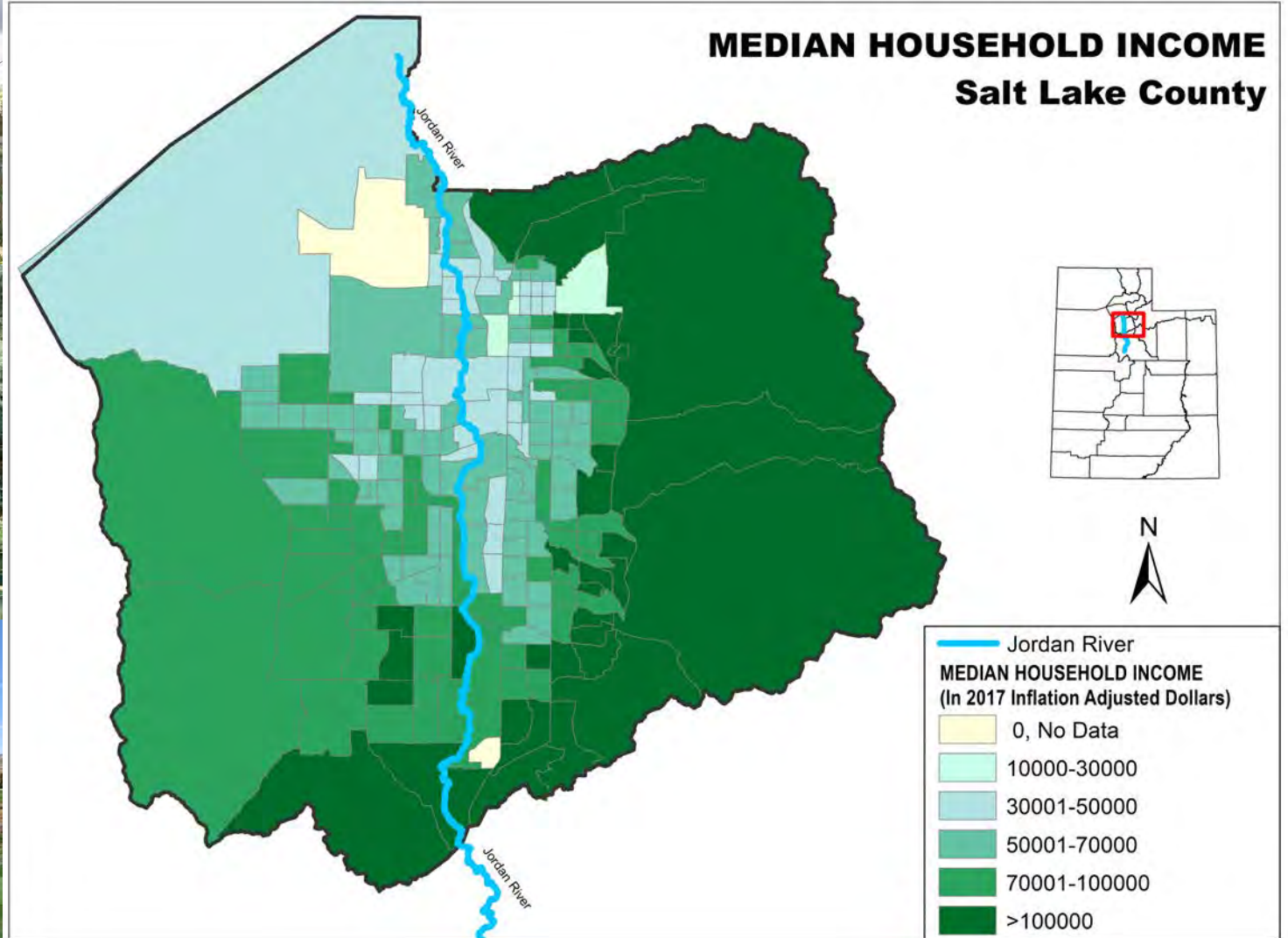
JORDAN RIVER

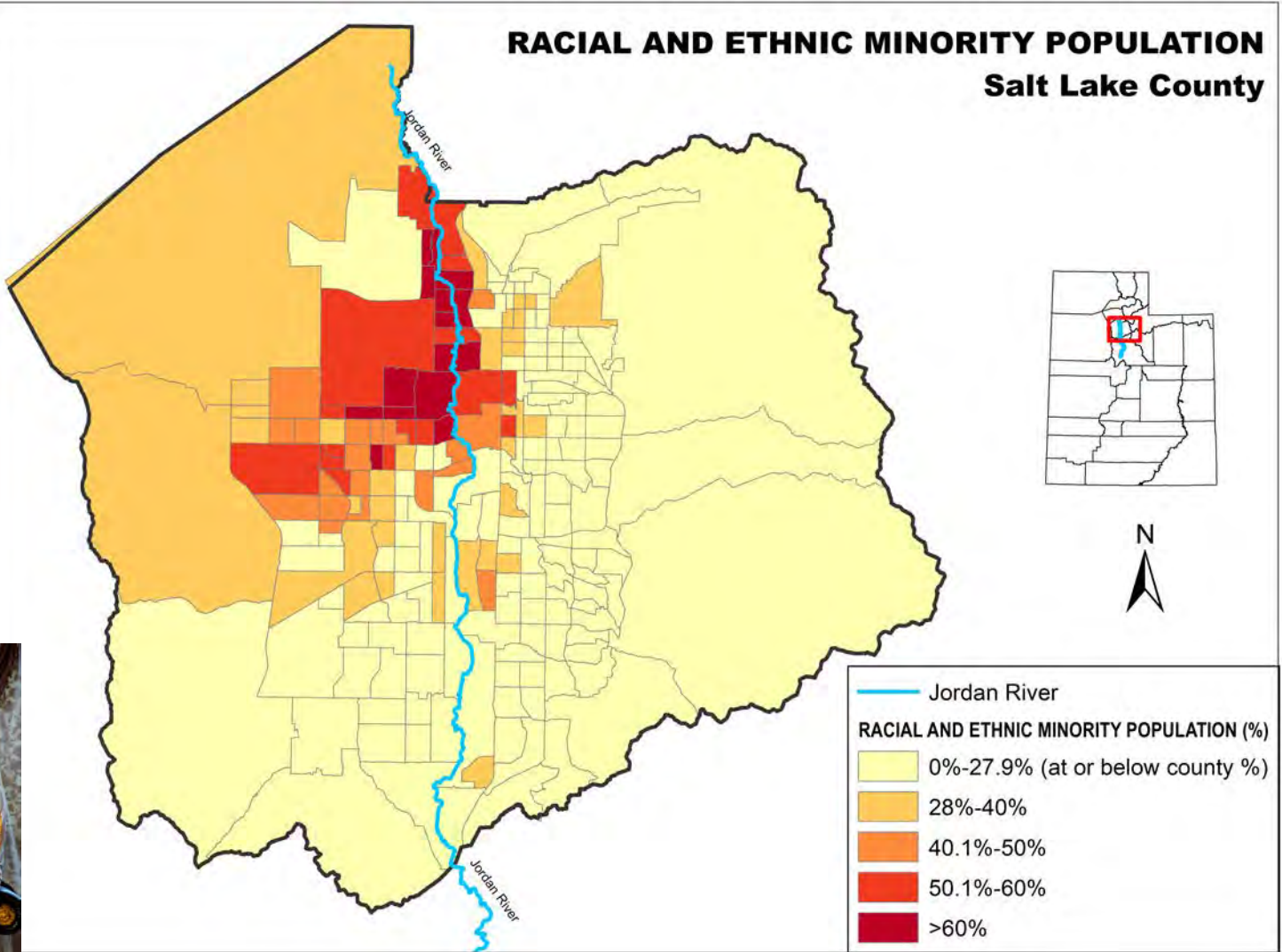


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www.visitsaltlake.com





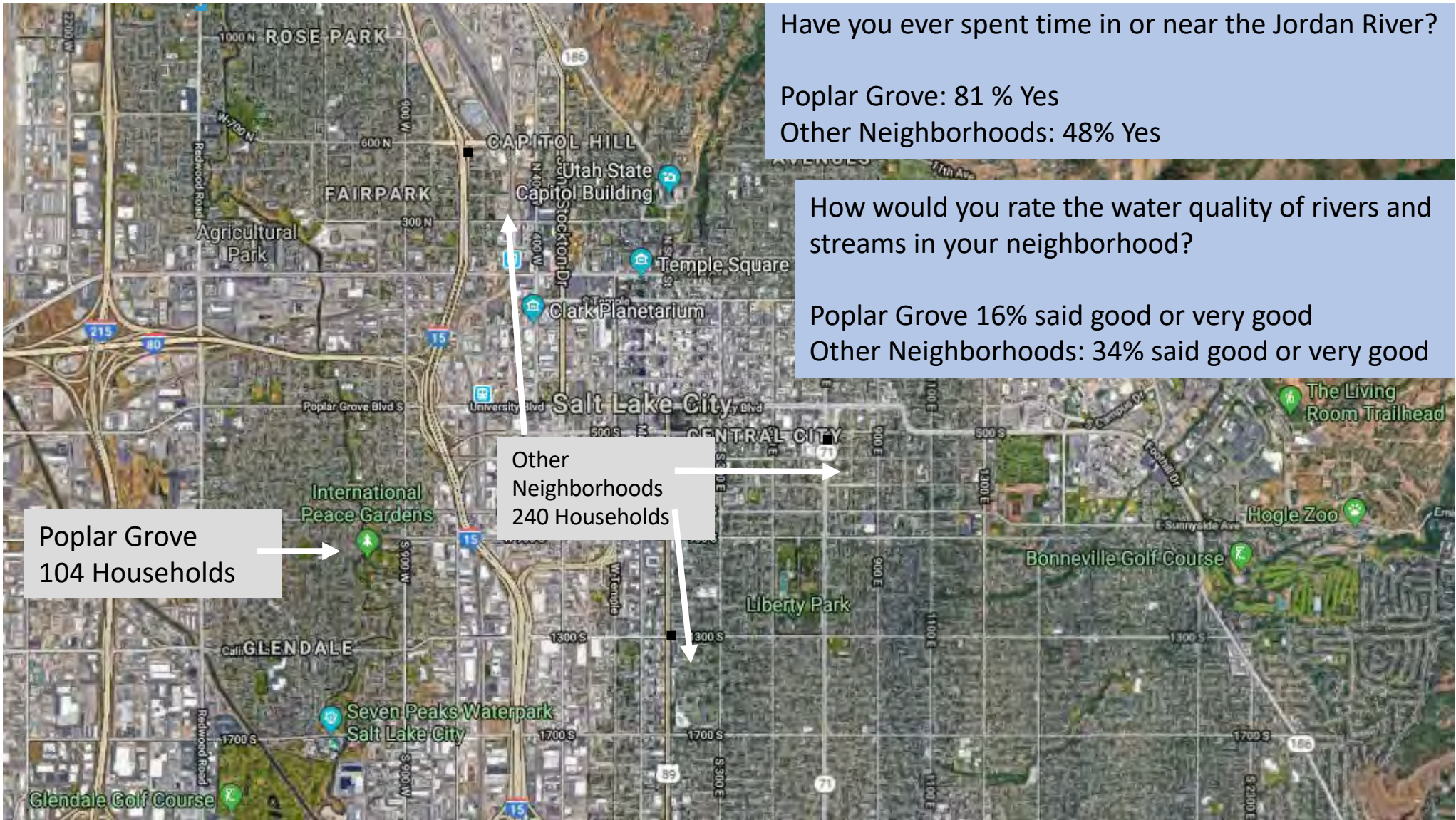




Jamie Pluta



Jamie Pluta



Have you ever spent time in or near the Jordan River?

Poplar Grove: 81 % Yes
Other Neighborhoods: 48% Yes

How would you rate the water quality of rivers and streams in your neighborhood?

Poplar Grove 16% said good or very good
Other Neighborhoods: 34% said good or very good

Poplar Grove
104 Households

Other
Neighborhoods
240 Households



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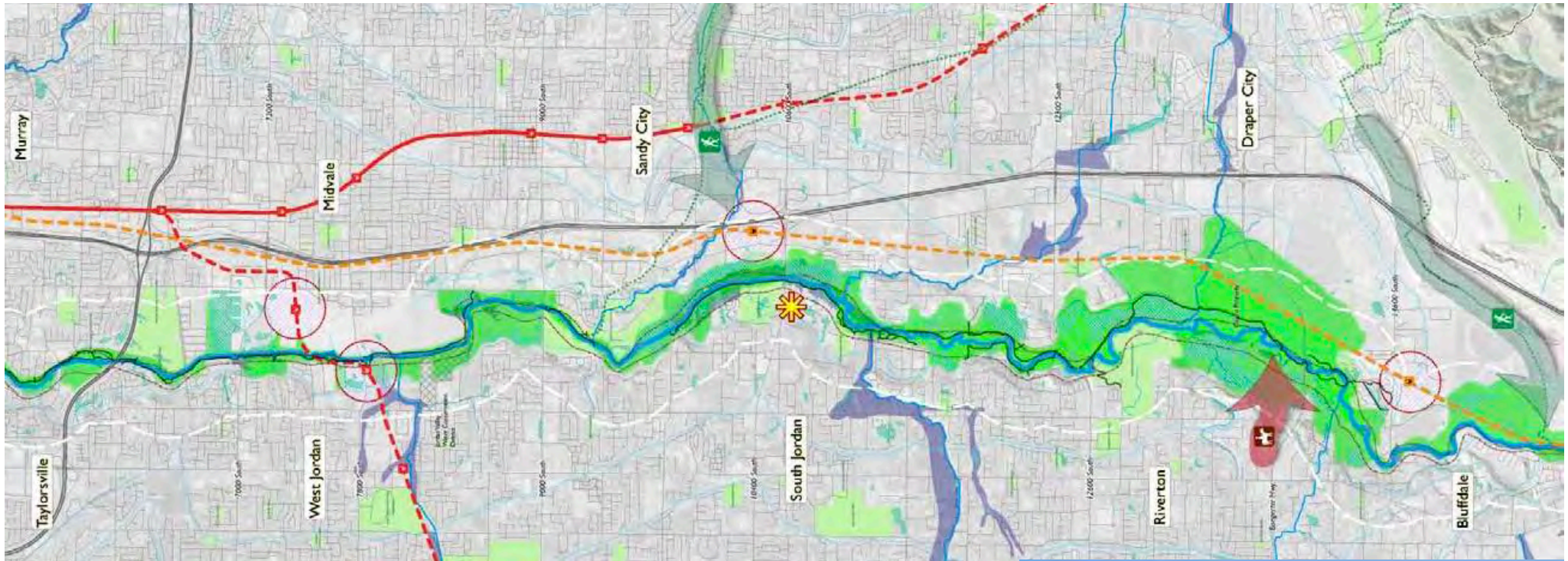
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Poplar Grove
104 Households

Other
Neighborhoods
240 Households

Overall, how do you think the Jordan River influences quality of life in this neighborhood?

Poplar Grove: 69% said positive influence
Other Neighborhoods: 53% said positive influence



Jordan River
Commission



Eric McCully



Commission

Three Creeks Confluence Daylighting Project Goal:

To restore a neglected, hazardous area by bringing piped tributaries up above ground into an accessible recreation space and wetland area.

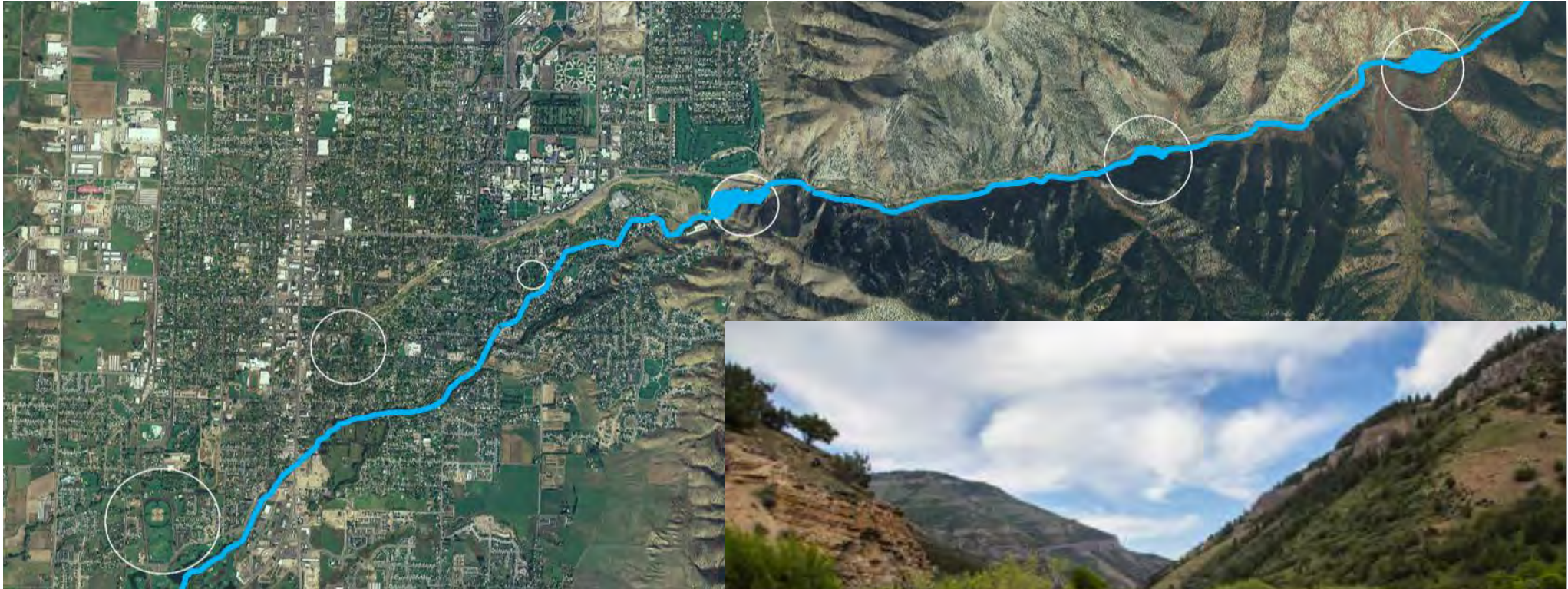


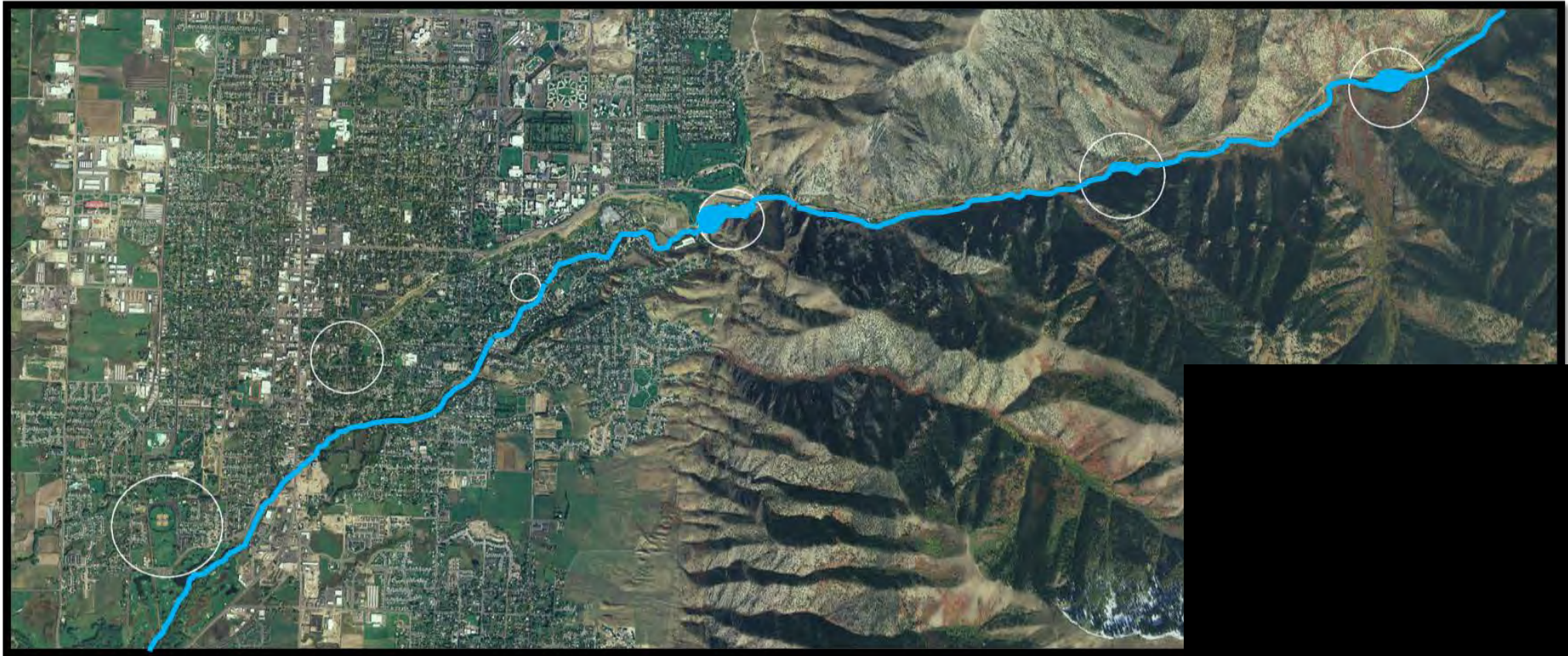
Taya Carothers

Community-based participation using public intercept surveys

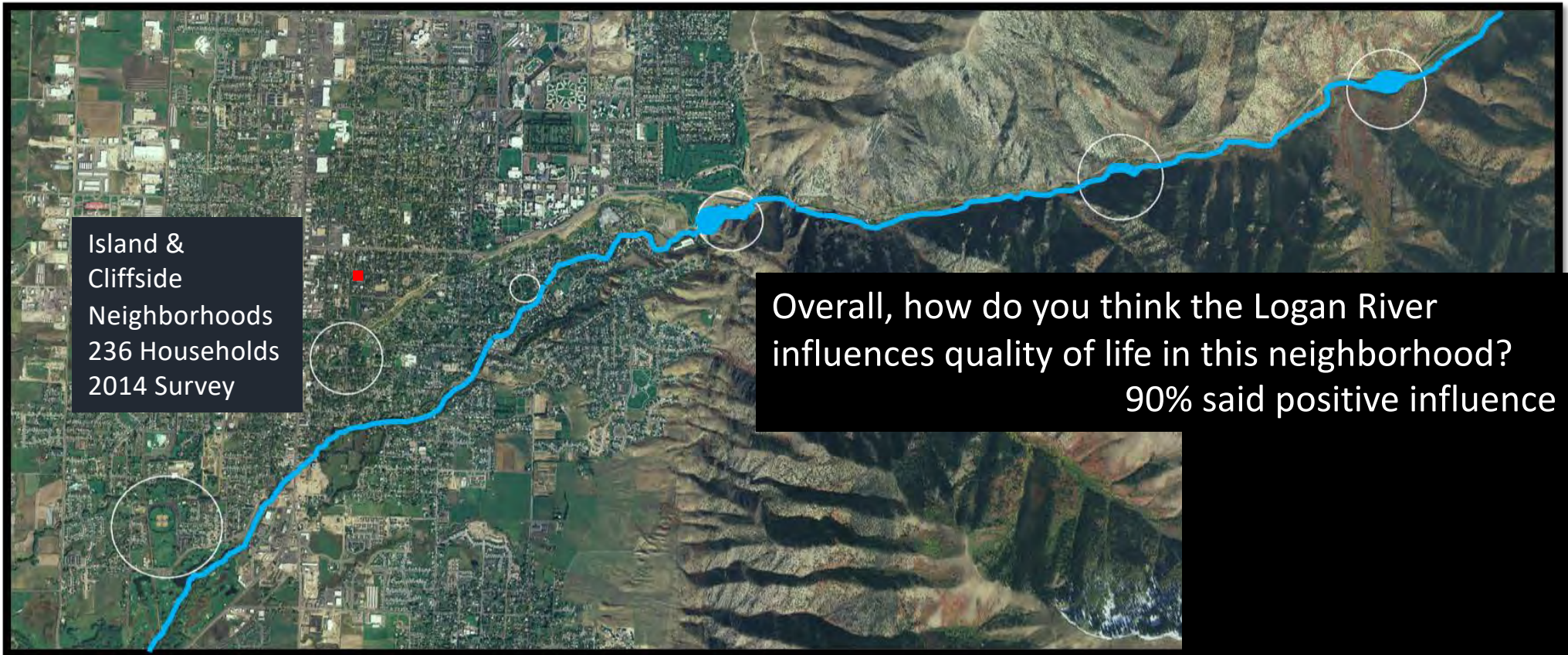
“I think the greatest benefit of the research they did for us was it provided a representative sample of the Glendale community. And I think it was rather eye-opening for us to see how we were really missing a demographic.”







“Water's important for life obviously, for our survival. But it's also a great amenity. I mean we recreate in it. We enjoy it by just looking at it, sitting by the stream or swimming in the river or swimming in the lake. I mean it's just a...it's just something that comes with nature.”



Island &
Cliffside
Neighborhoods
236 Households
2014 Survey

Overall, how do you think the Logan River
influences quality of life in this neighborhood?
90% said positive influence

“Water's important for life obviously, for our survival. But it's also a great amenity. I mean we recreate in it. We enjoy it by just looking at it, sitting by the stream or swimming in the river or swimming in the lake. I mean it's just a...it's just something that comes with nature.”

SUBSCRIBE NOW!



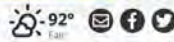
Flood mitigation on Logan River upsets many

Dec. 30, 2014



Manuel Johnson holds up a collage of photos from he has taken throughout the Logan River restoration work near his home on 400 E and 300 S during a meeting of concerned residents on Thursday night. [Buy Now](#)
John, jzay@tribune.com

SUBSCRIBE NOW!



Logan River project could have used some USU expertise

By Thad Box





Logan River Restoration at Rendezvous Park

What's being done?
Continuation of work completed upstream of here last year to improve river condition and riparian habitat.

Conservation Action Plan (CAP)

Vision
Make the Logan River system a showcase of ecologically viable, socially beneficial river restoration.

How?
By working to improve key indicators. Some examples:

| Indicator | Condition before projects | Desired Condition |
|------------------------|---------------------------|-------------------|
| Flood conveyance | Fair | Good |
| Instream habitat | Fair | Good |
| Trout density and size | Poor | Very good |
| Riparian vegetation | Poor | Good |
| Water quality | Good | Very good |

To learn more...
Visit YouTube to see a video about Logan River Restoration!

Visit the Parks & Recreation Department at loganutah.org to learn more about the Logan River Conservation Action Plan.

SUBSCRIBE NOW!

94° Partly Cloudy

Residents invited to plant native trees by Logan River

87° Sunny

Reactions to Logan River restoration mostly positive

By Sean Dolan staff writer Nov 17, 2017



A trackhoe excavates a trench where the Logan River will soon be rerouted between the Logan River Golf Course and Rendezvous Park.

“They’ve done a great job. The banks used to be eroding and there were flooded homes. Now, it’s a great place to walk and to be by the river.” (local resident)



News Trending Today

- 1 Smithfield
- 2 Logan man c
- 3 Man dead in
- 4 'Intactivists
- 5 Icehouse F

ENTER **Fur-nature** on Pet Photo Contest

Brought to you by **Palmer** NOW FURNITURES

Logan River Restoration at Rendezvous Park

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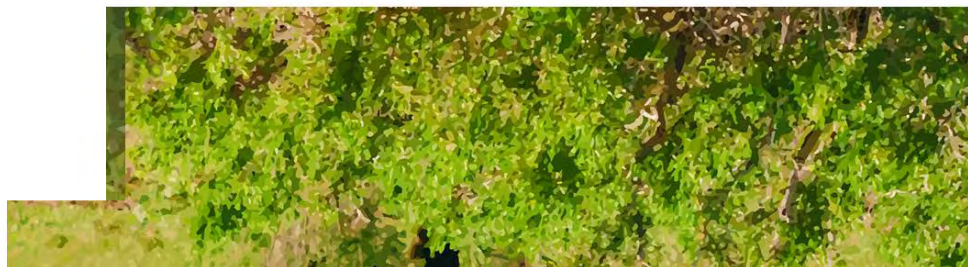
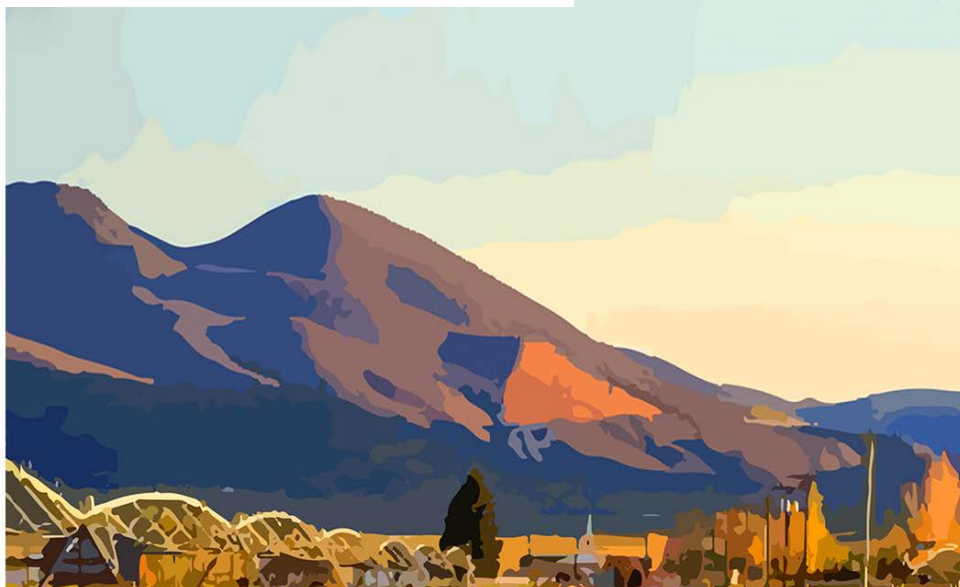
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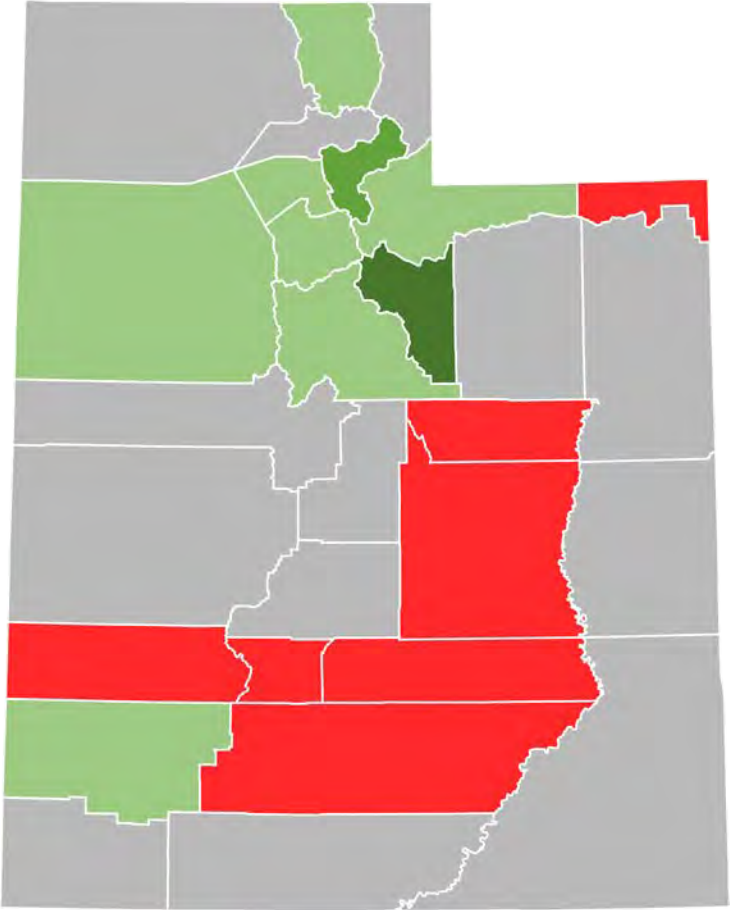
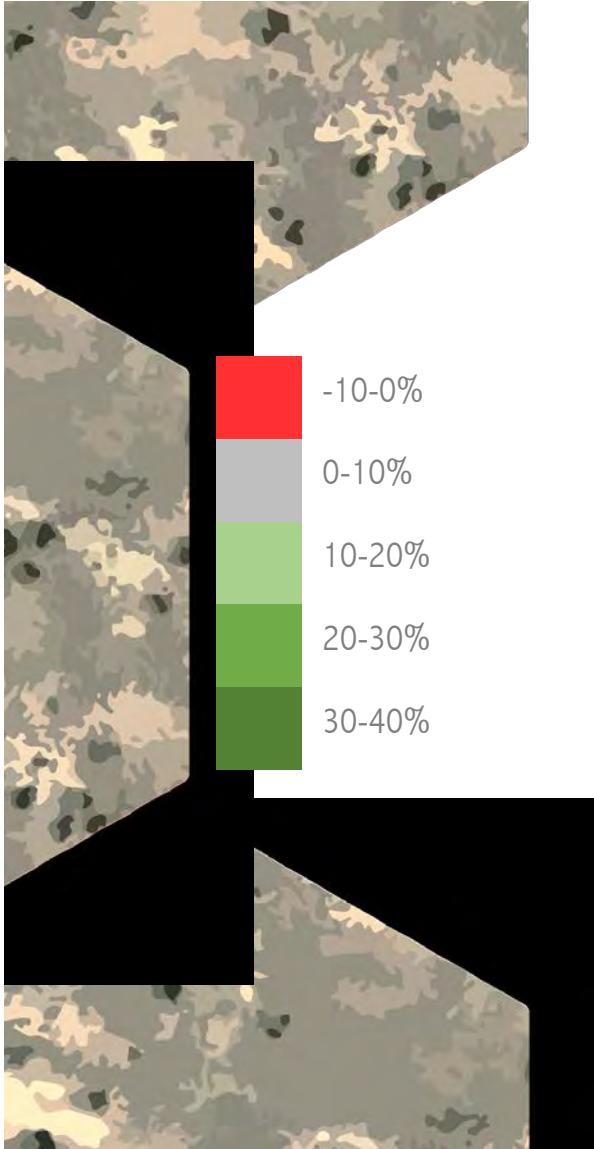
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RURAL LAND



COUNTY POPULATION CHANGE 2010-17



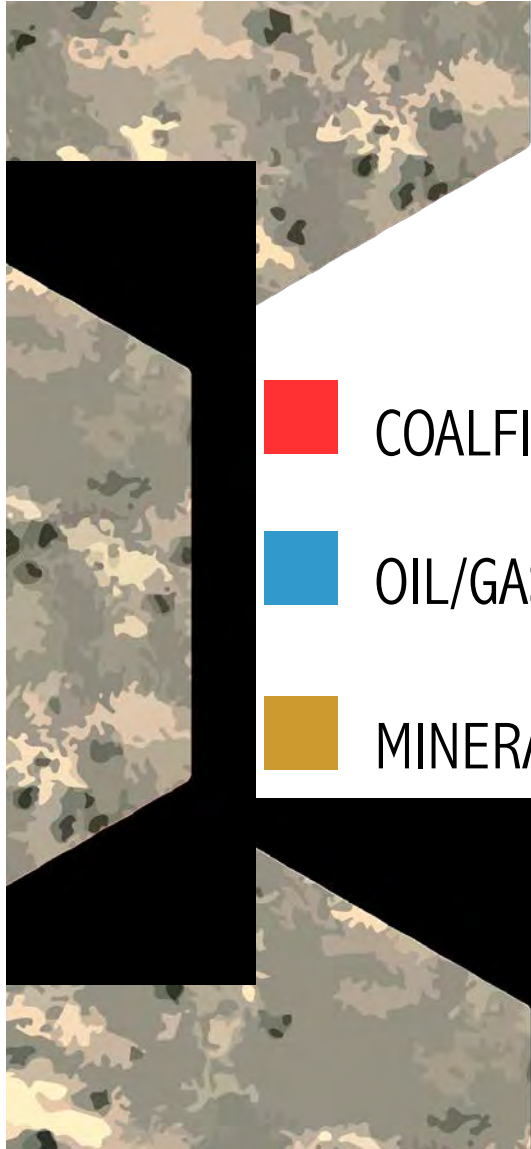






MINING
LAND





COALFIELDS



OIL/GAS



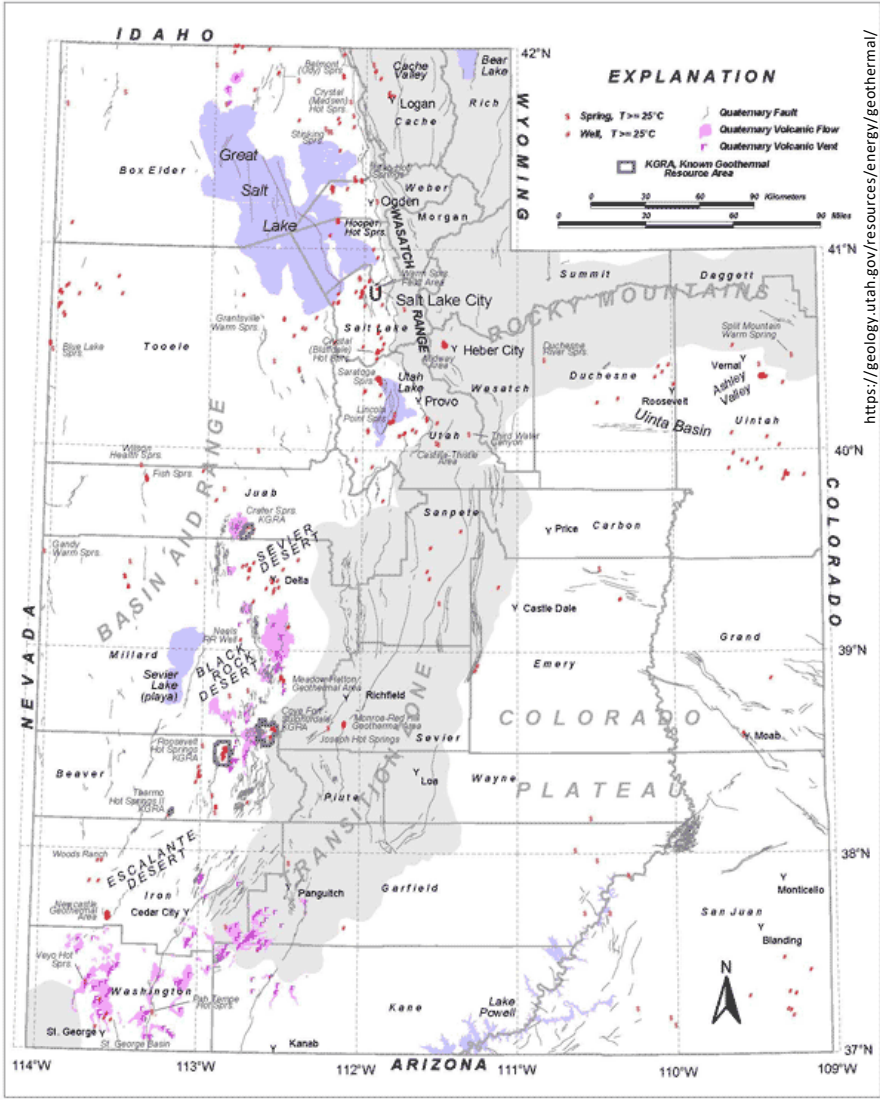
MINERAL/OTHER





<https://www.reuters.com/news/picture/renewable-energy-no-longer-a-niche-to-in-idUSKBN19D25A>

GEOHERMAL ENERGY



<https://geology.utah.gov/resources/energy/geothermal/>

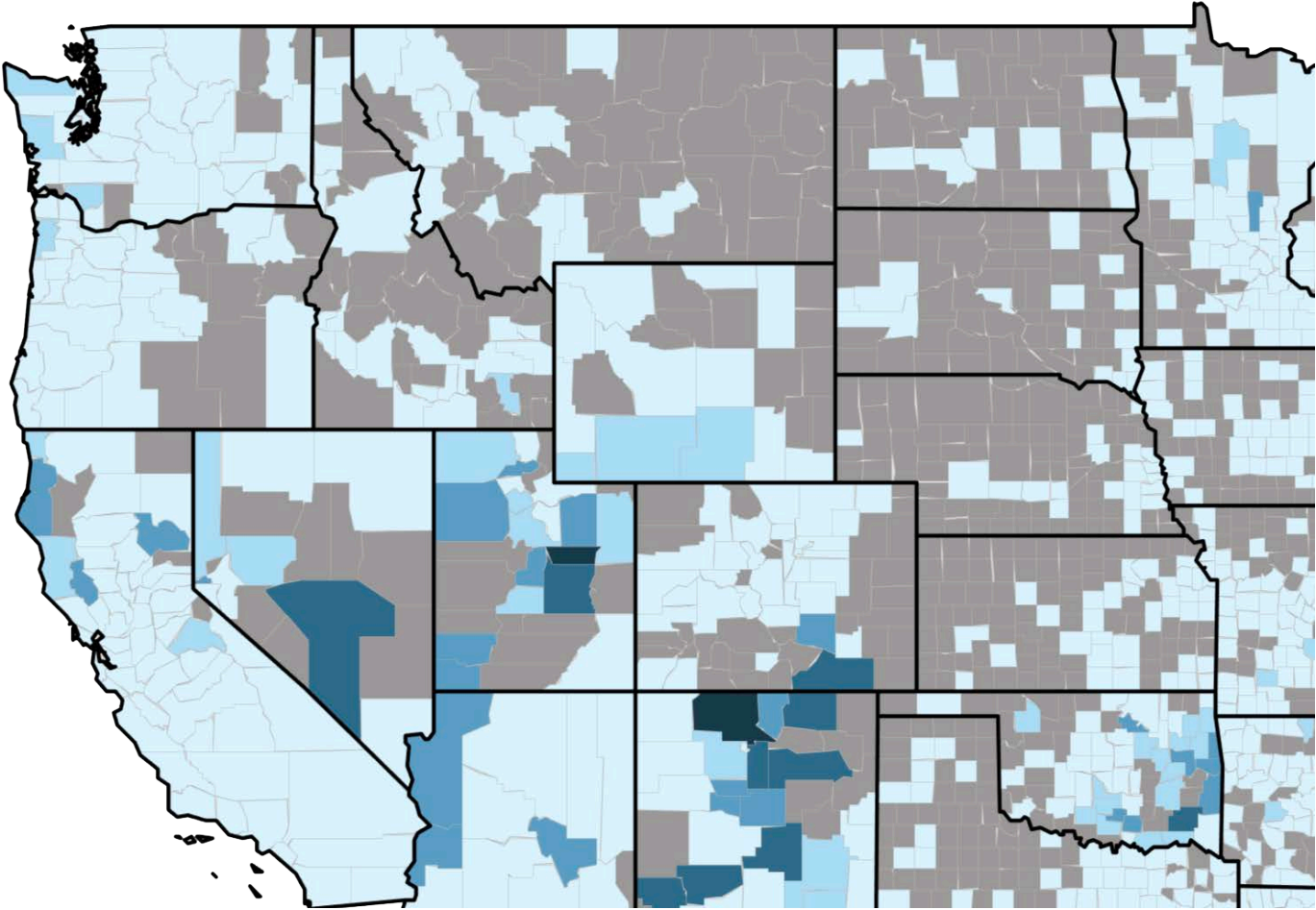
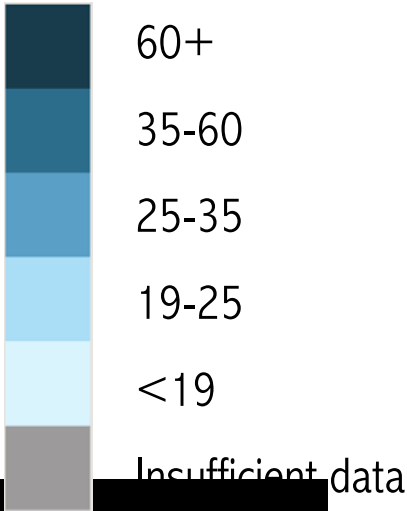


Raser Technologies

Geothermal resources of Utah showing thermal wells and springs, Quaternary tectonic and volcanic features, and major physiographic regions.

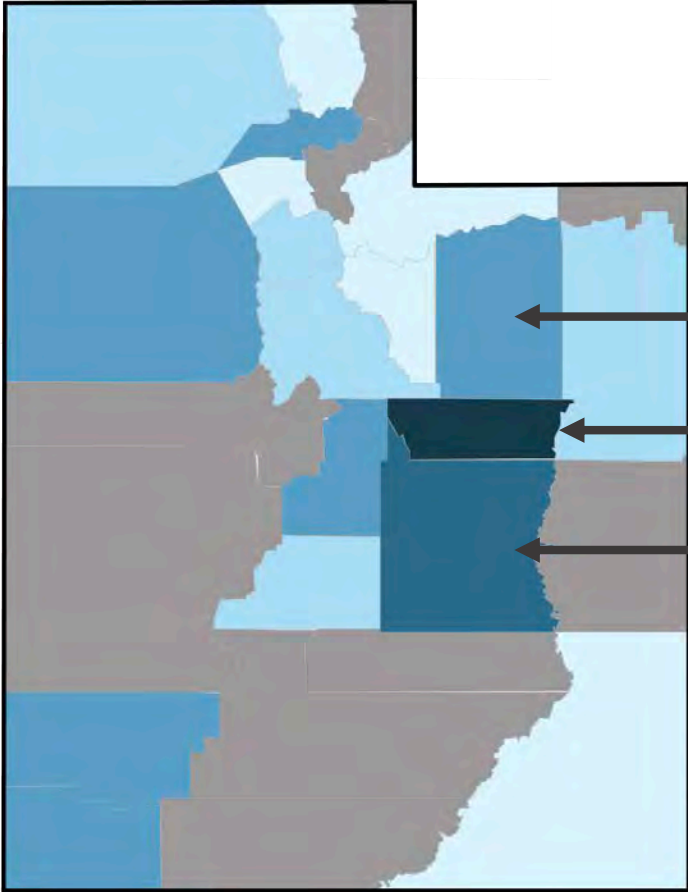
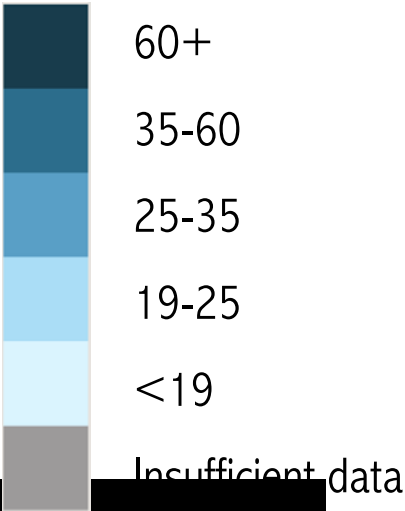
OPIOID DRUG OVERDOSE

MORTALITY RATE



OPIOID DRUG OVERDOSE

MORTALITY RATE



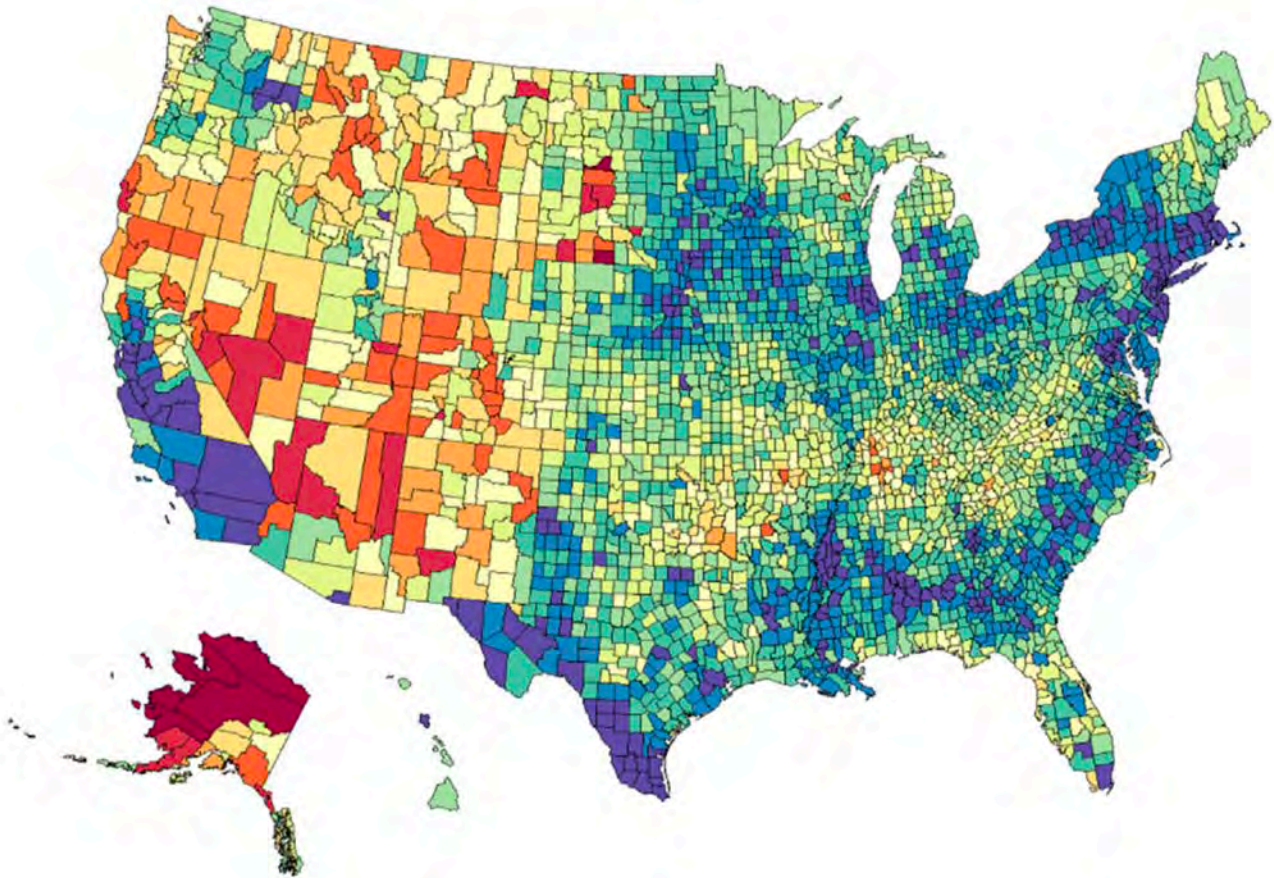
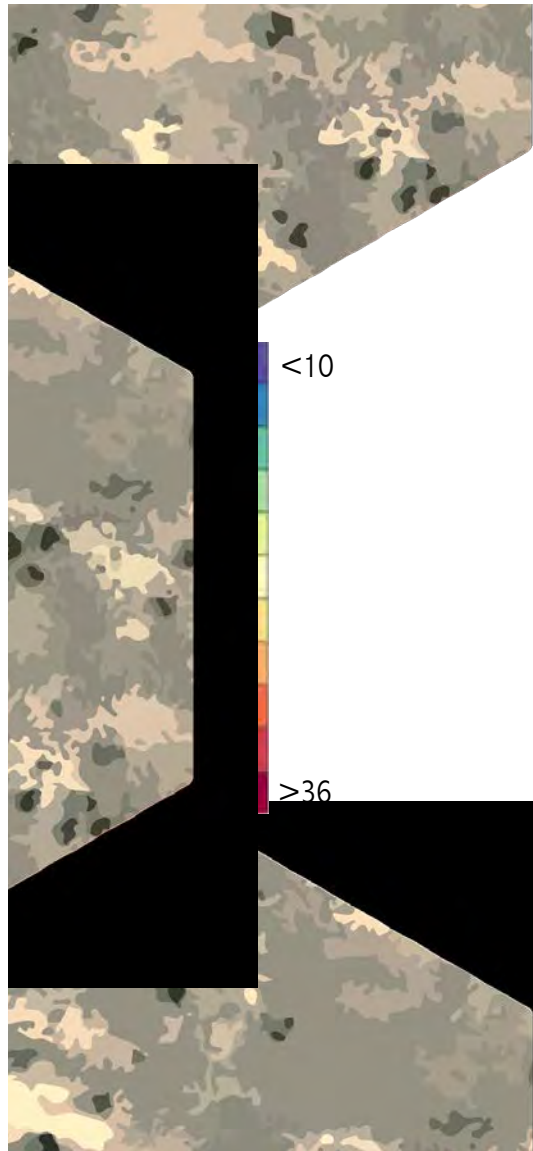
Percent Employed in Mining, Agriculture & Natural Resources

| | |
|-------------|-----|
| Duchesne Co | 23% |
| Carbon Co | 8% |
| Emery Co | 10% |
| Utah | 2% |

SUICIDE RATES

COUNTY-LEVEL TRENDS

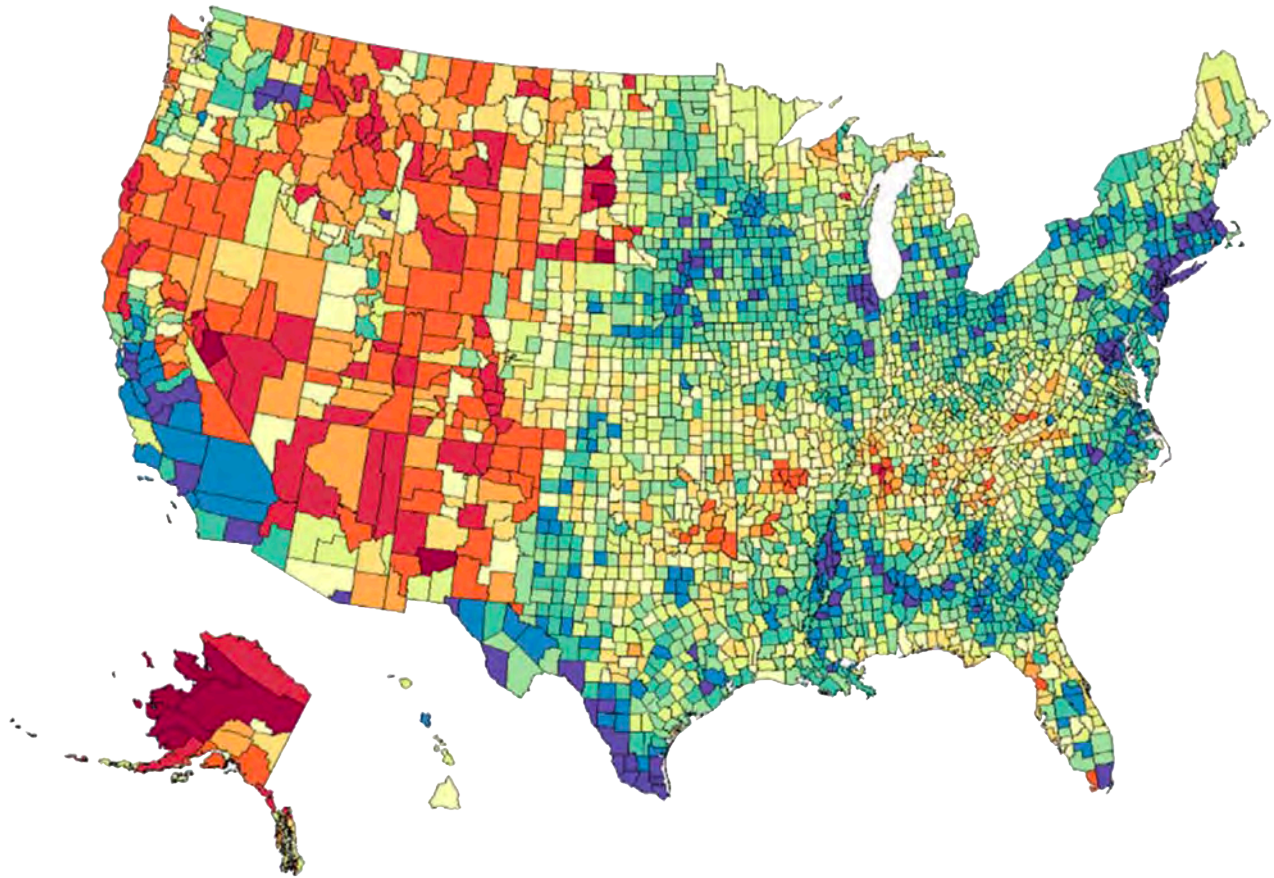
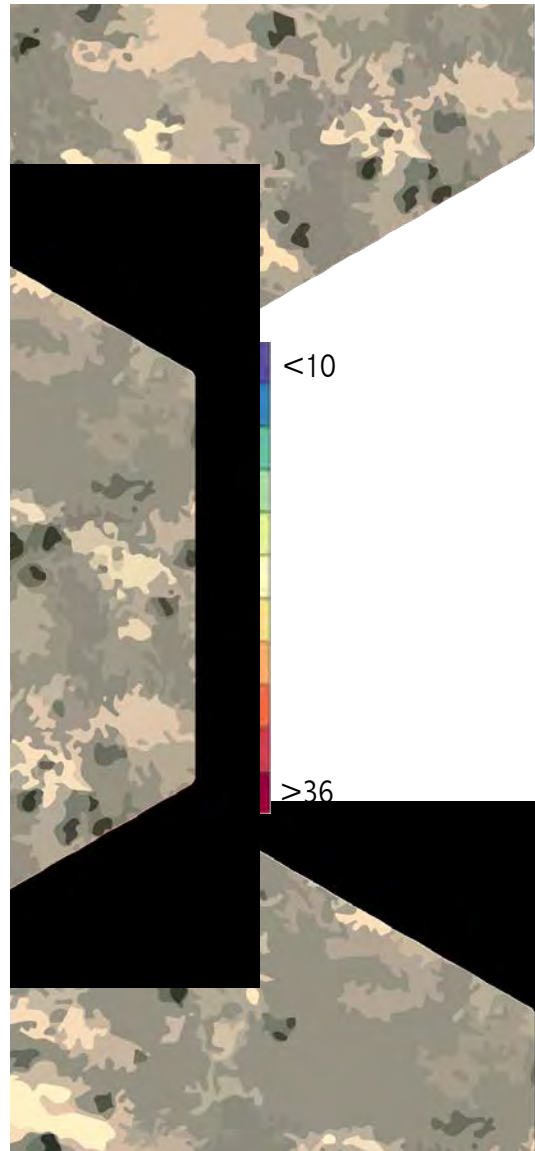
2005



SUICIDE RATES

COUNTY-LEVEL TRENDS

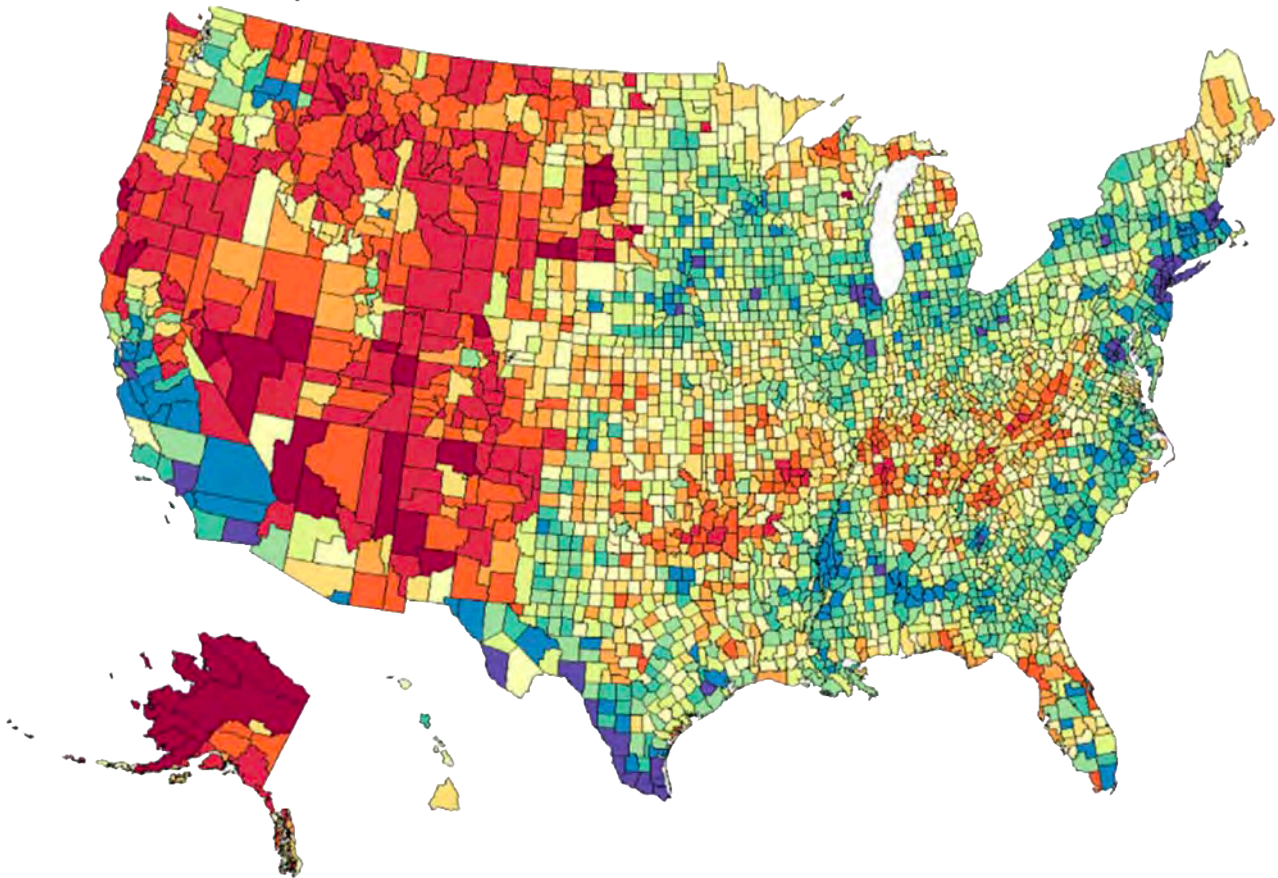
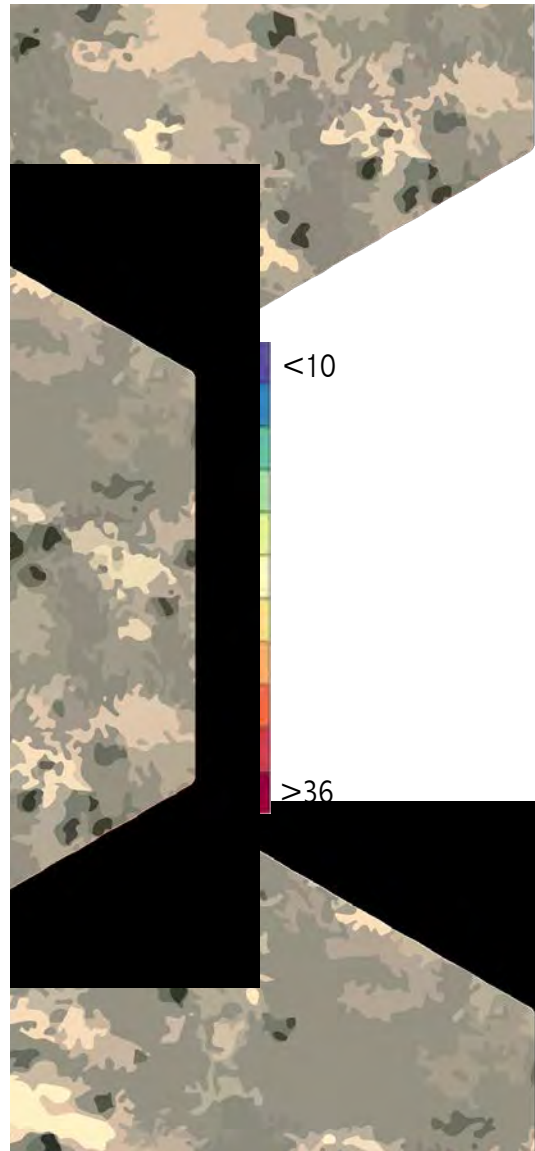
2010



SUICIDE RATES

COUNTY-LEVEL TRENDS

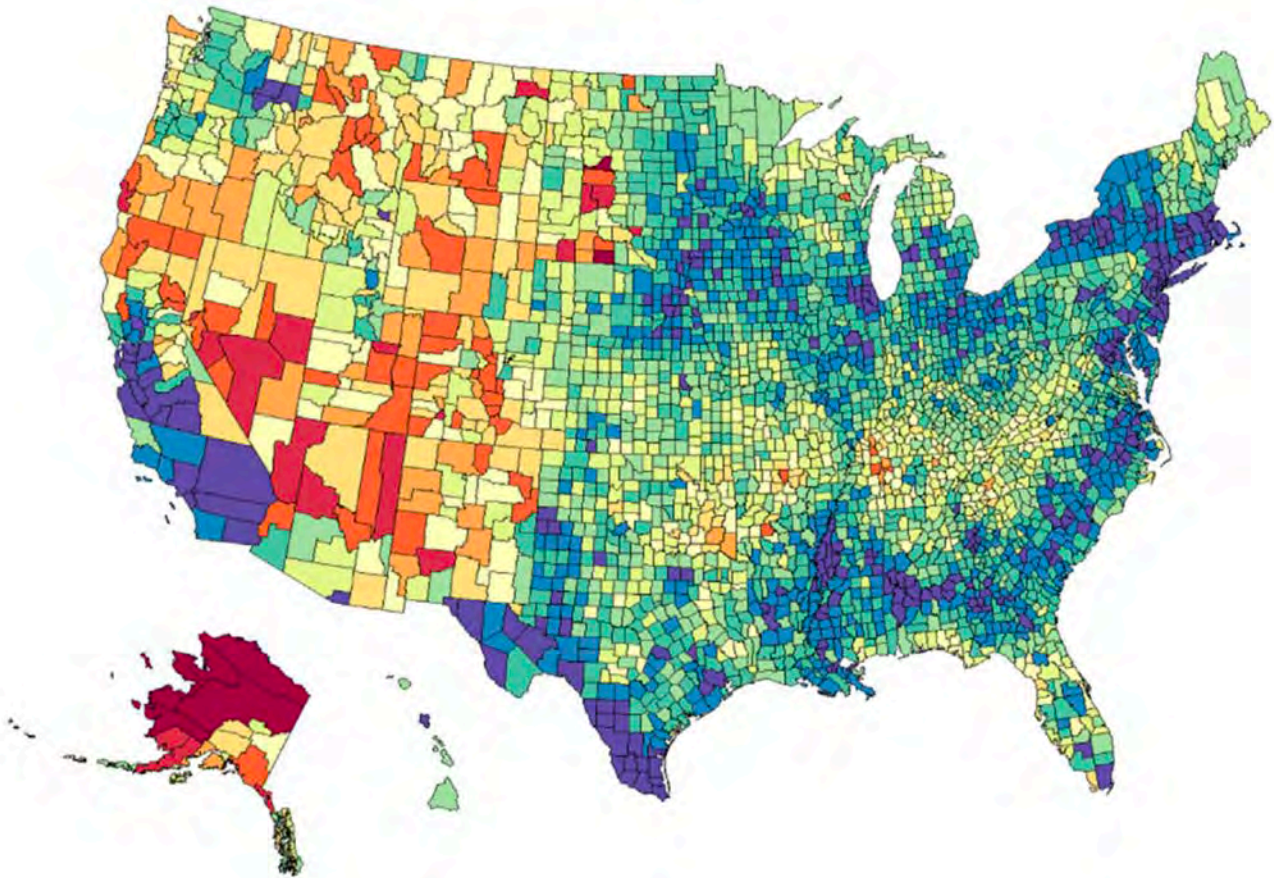
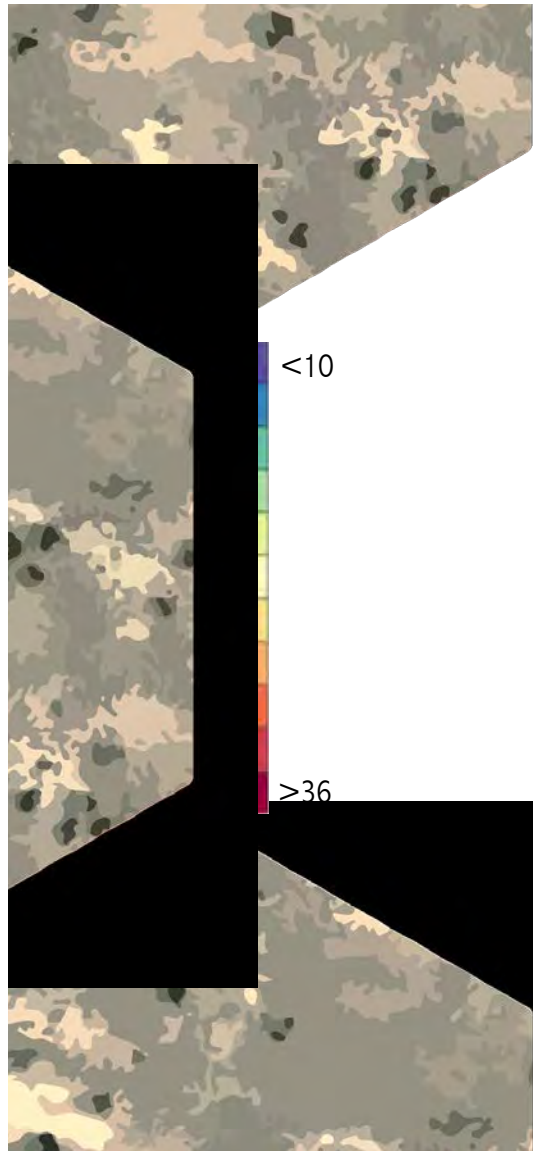
2015



SUICIDE RATES

COUNTY-LEVEL TRENDS

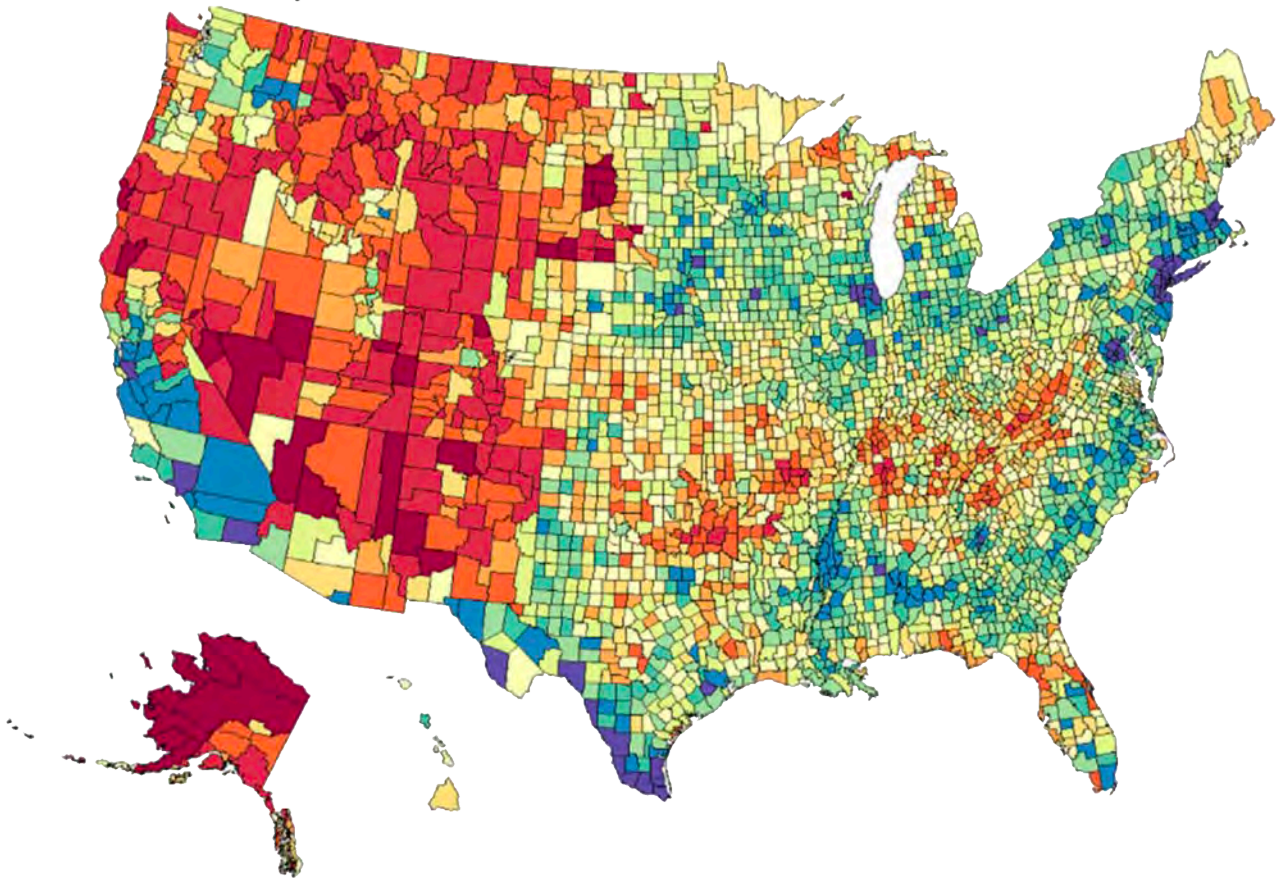
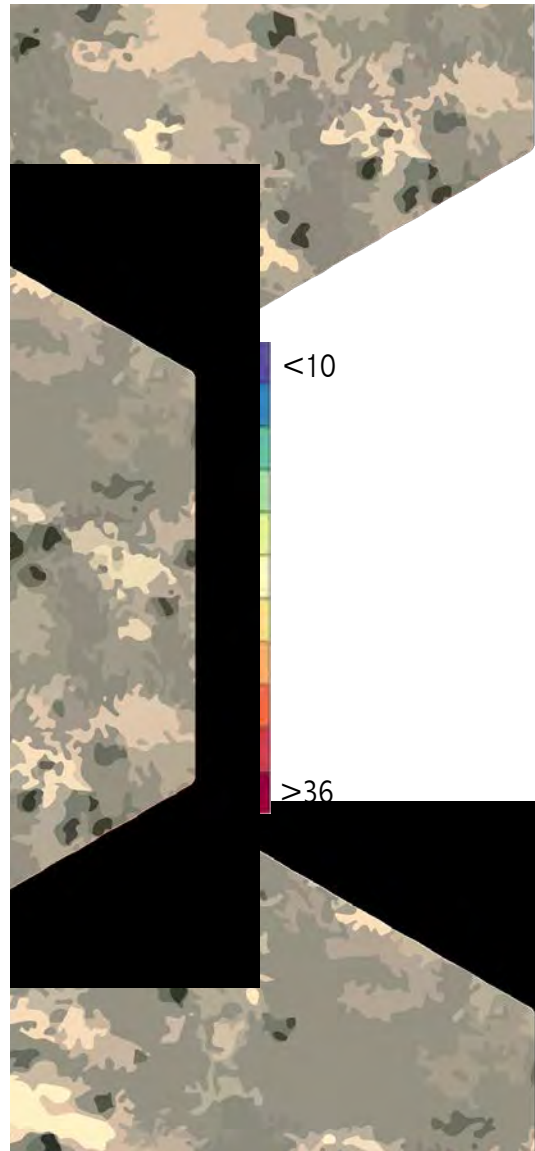
2005



SUICIDE RATES

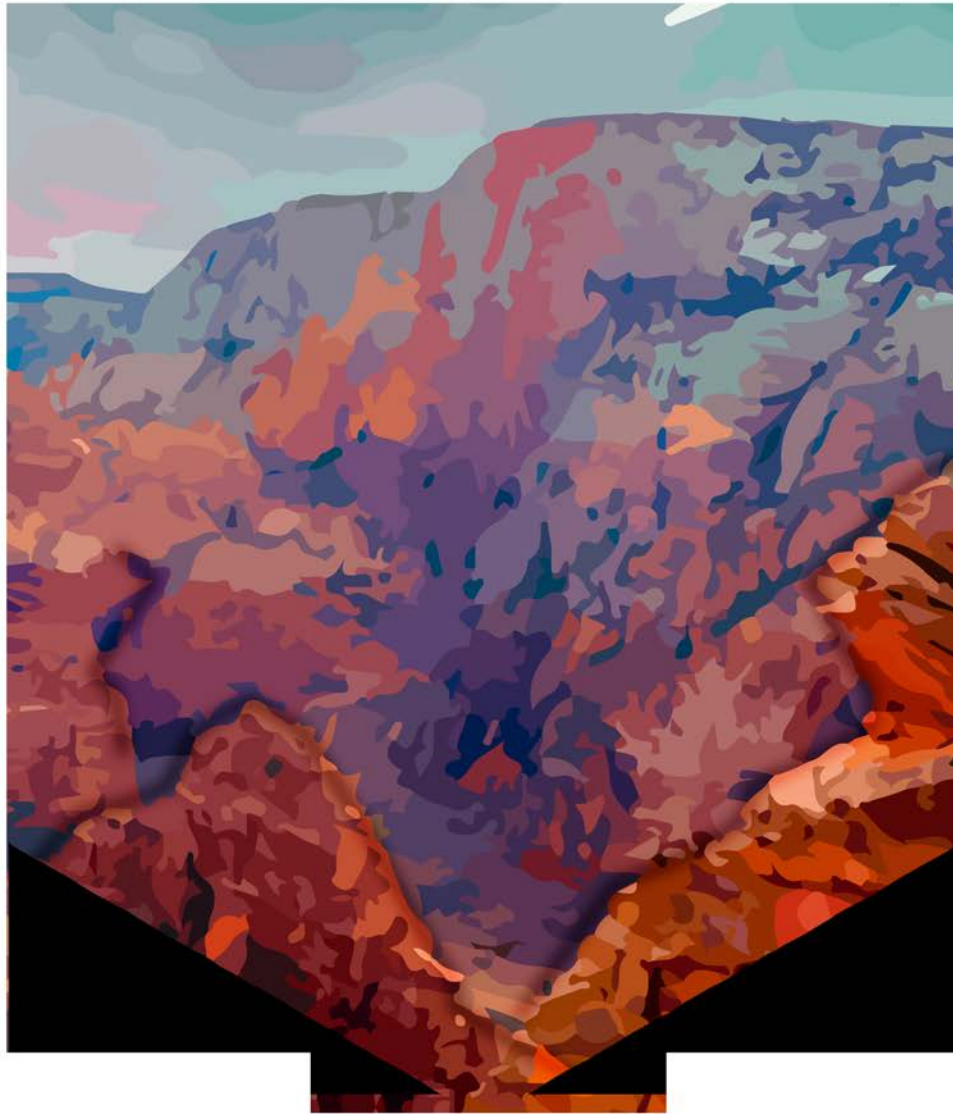
COUNTY-LEVEL TRENDS

2015










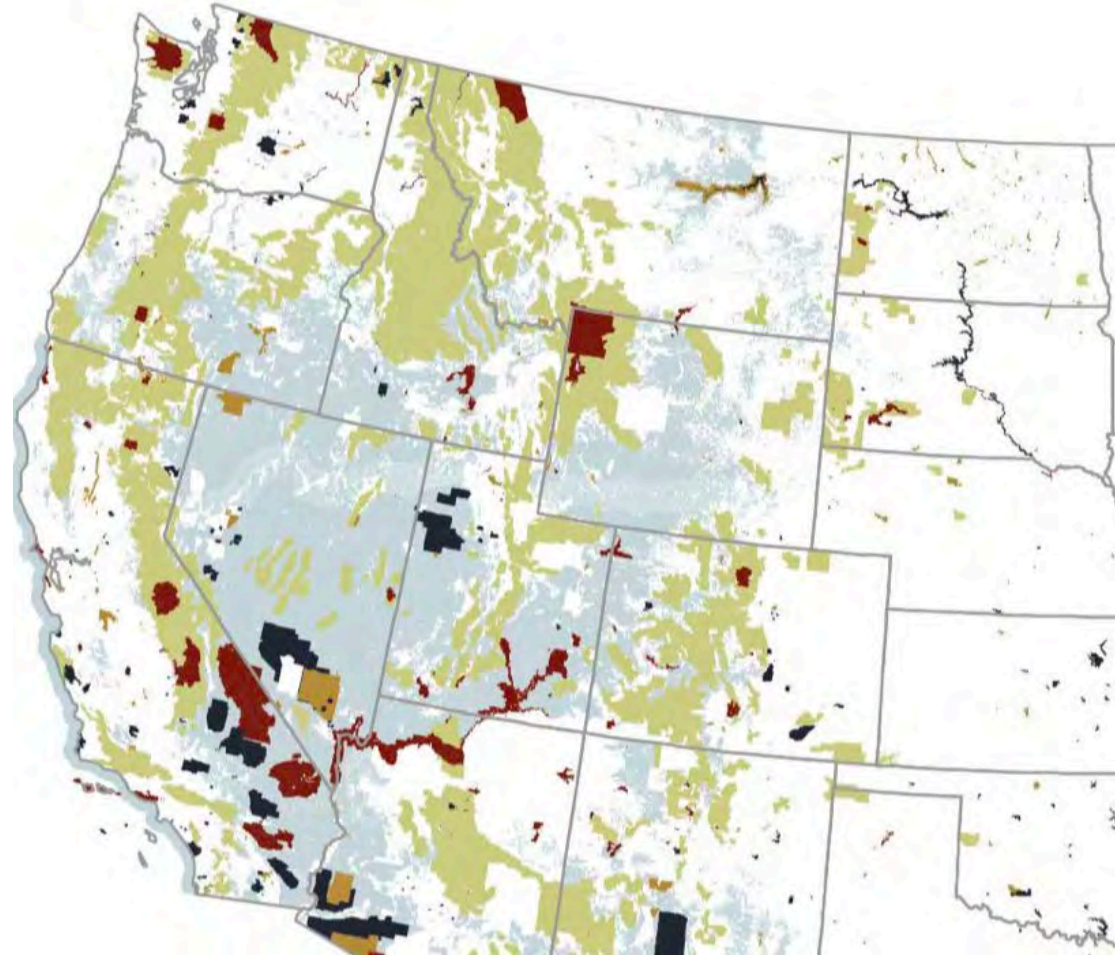
PUBLIC
LAND



WESTERN FEDERAL LANDS



-  Bureau of Land Management
-  Department of Defense
-  Forest Service
-  Fish and Wildlife Service
-  National Park Service



<https://fas.org/sgp/crs/misc/R42346.pdf>



82%

RECREATION WITHIN THE STATE
OCCURS ON PUBLIC LANDS

82%

PUBLIC LANDS ARE AN IMPORTANT PART
OF CULTURE, HERITAGE, AND LIFE

UTAH
WELLBEING
PROJECT



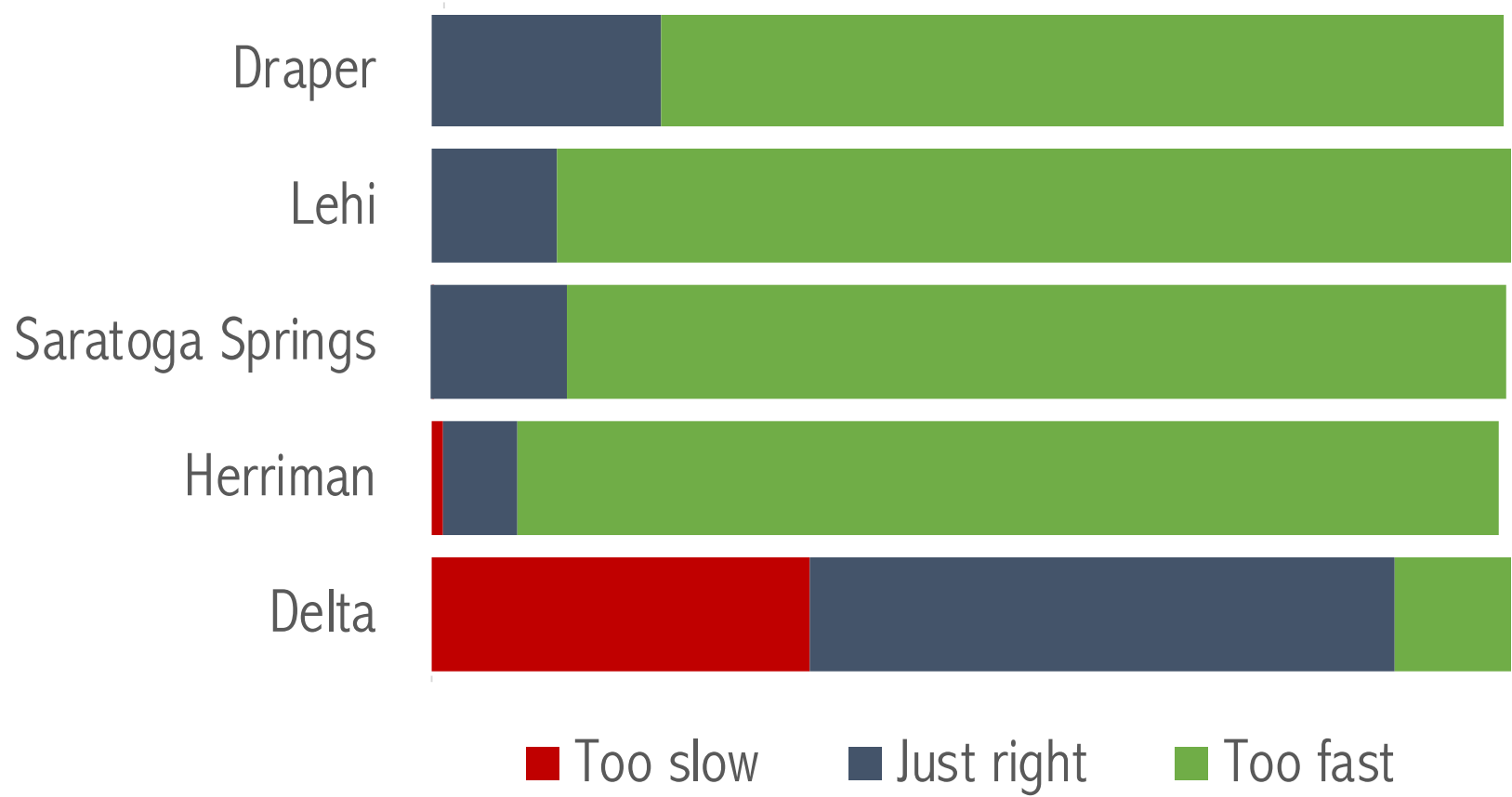
WELLBEING PROJECT

study sites



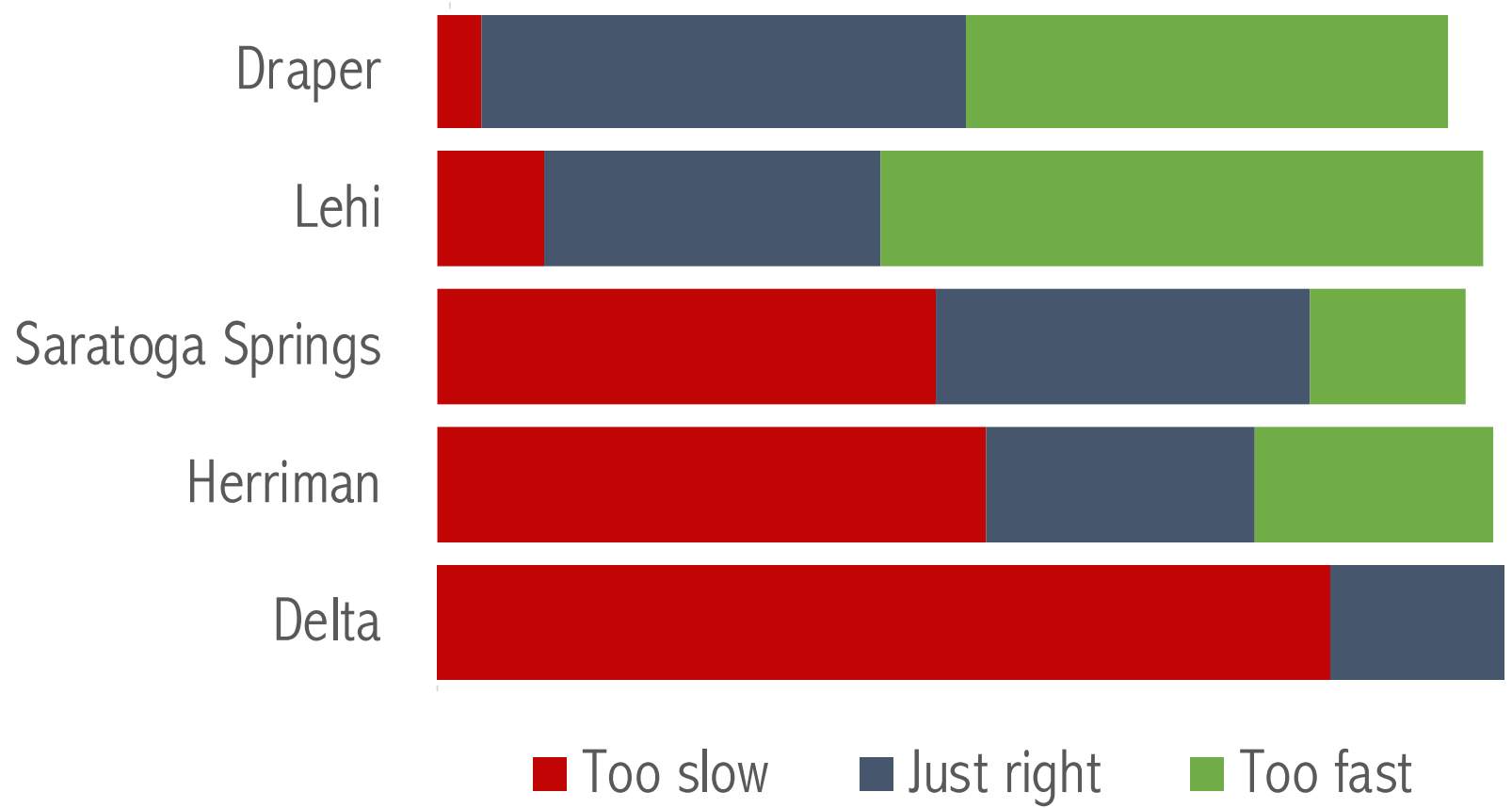


PERCEPTIONS OF POPULATION GROWTH





PERCEPTIONS OF ECONOMIC DEVELOPMENT

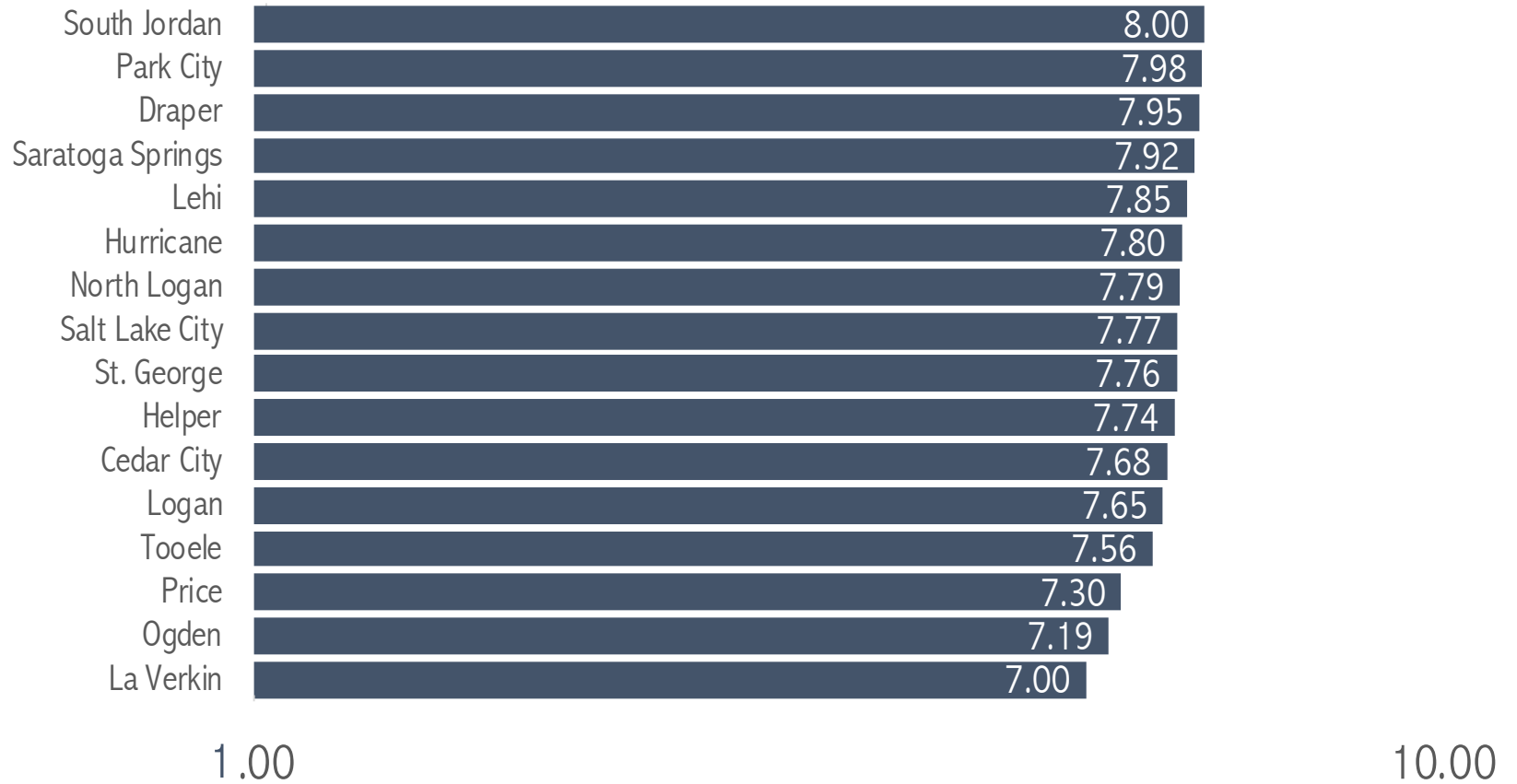






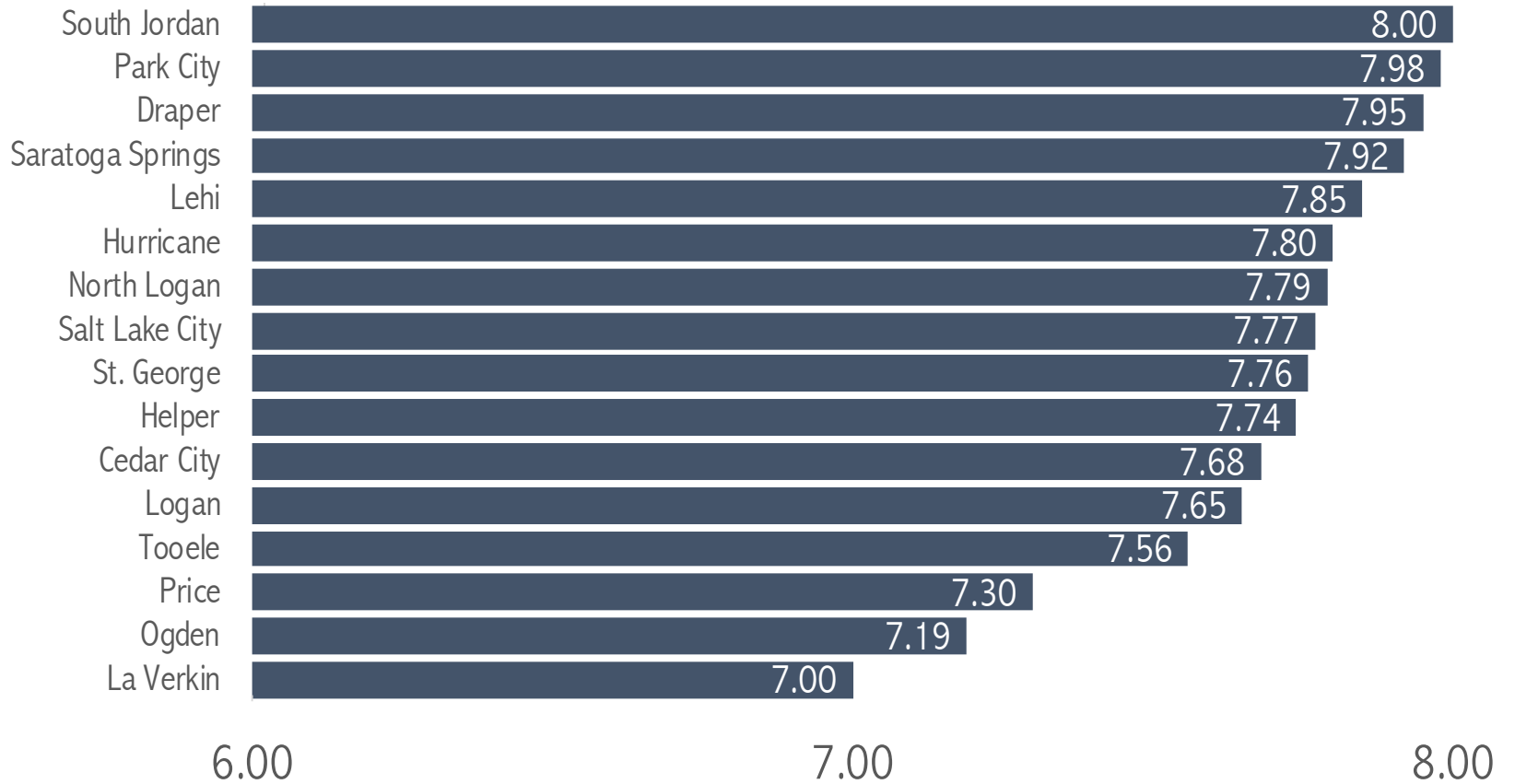


OVERALL PERSONAL WELLBEING (1-10 scale)



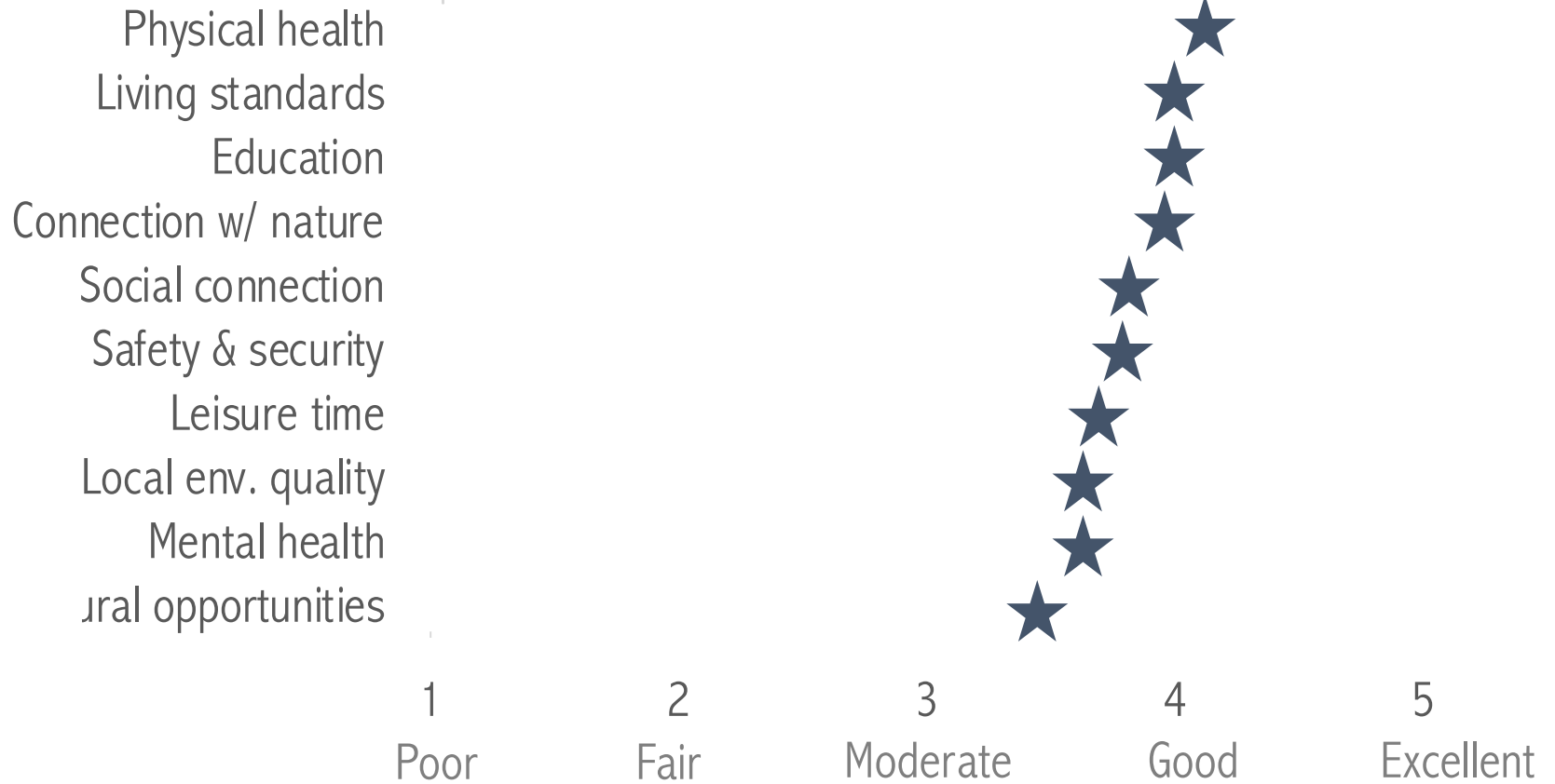


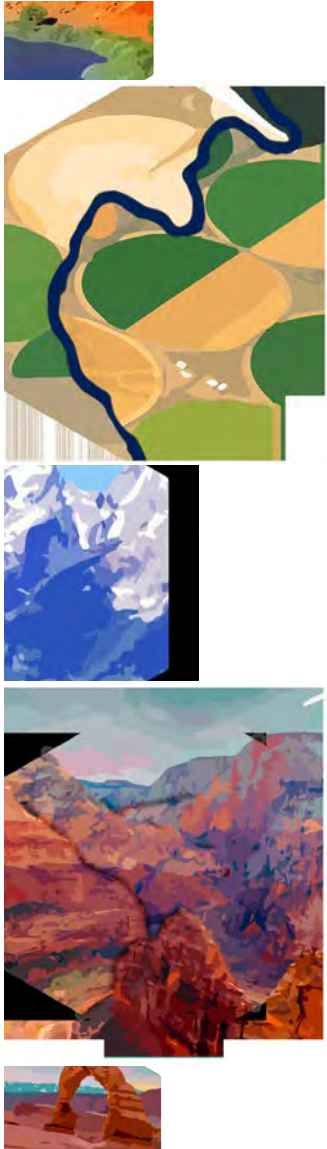
OVERALL PERSONAL WELLBEING (1-10 scale)



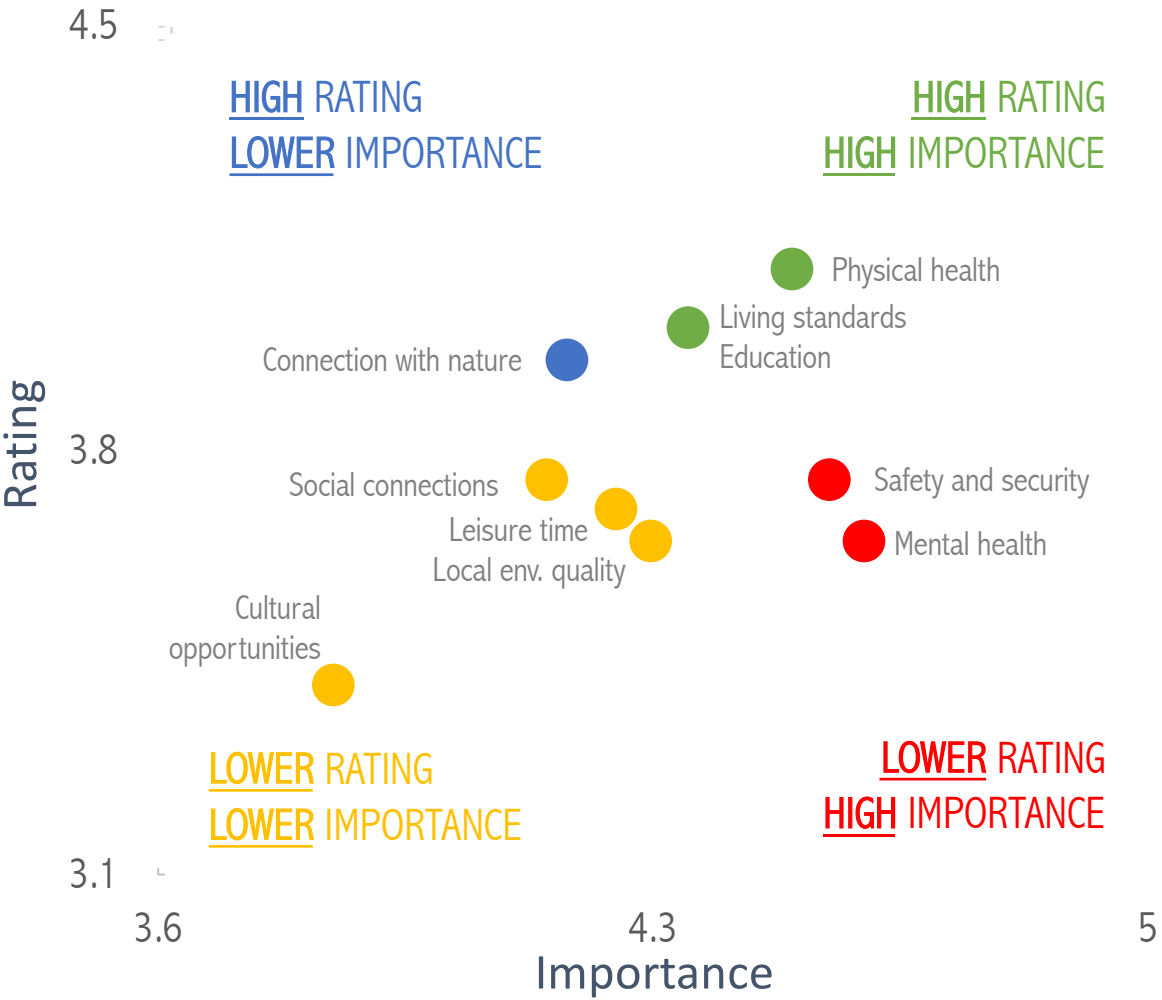


UTAH WELLBEING DOMAIN AVERAGES





UTAH CITIES WELLBEING MATRIX



| Rating of Domains | Age 50+ | Female | College Degree | Religion Latter-Day Saints | Higher Income (\$75K+) | Non-white or Hispanic |
|----------------------------|---------|--------|----------------|----------------------------|------------------------|-----------------------|
| Overall Personal Wellbeing | + | - | | + | + | |
| Connection to Nature | + | - | | | | |
| Cultural Opportunities | + | | + | + | + | - |
| Education | + | | + | + | + | |
| Leisure Time | + | | + | | + | |
| Living Standards | + | | + | | + | |
| al Environmental Quality | + | - | | + | + | |
| Mental Health | + | - | | | + | |
| Physical Health | | - | | + | + | |
| Safety & Security | | | | + | + | |
| Social Connections | + | - | | + | + | |

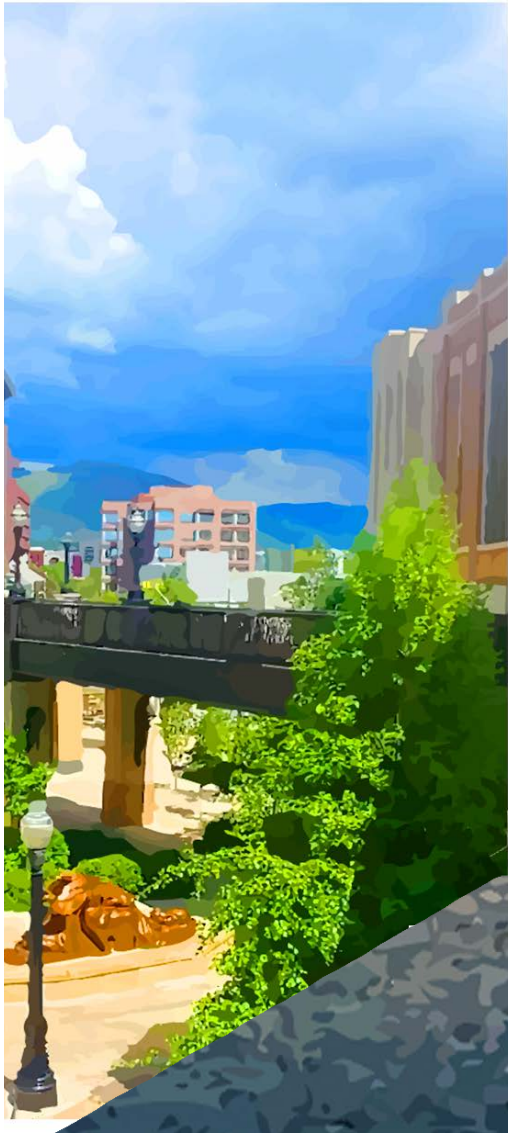


| Rating of Domains | Age 50+ | Female | College Degree | Religion Latter-Day Saints | Higher Income (\$75K+) | Non-white or Latino |
|----------------------------|---------|--------|----------------|----------------------------|------------------------|---------------------|
| Overall Personal Wellbeing | + | - | | + | + | |
| Connection to Nature | + | | + | | | - |
| Cultural Opportunities | + | | + | + | + | |
| Education | + | | + | + | + | |
| Leisure Time | + | | + | | + | |
| Living Standards | + | | + | | + | |
| Environmental Quality | + | - | | + | + | |
| Mental Health | + | - | | | + | |
| Physical Health | | - | | + | + | |
| Safety & Security | | | | + | + | |
| Social Connections | + | - | | + | + | |



| Rating of Domains | Age 50+ | Female | College Degree | Religion Latter-Day Saints | Higher Income | Non-white or Hispanic |
|-----------------------------|---------|--------|----------------|----------------------------|---------------|-----------------------|
| Overall Personal Wellbeing | + | - | | + | + | |
| Connection to Nature | + | - | | | | |
| Cultural Opportunities | + | | + | + | + | - |
| Education | + | | + | + | + | |
| Leisure Time | + | | + | | + | |
| Living Standards | + | | + | | + | |
| Local Environmental Quality | + | - | | + | + | |
| Mental Health | + | - | | | + | |
| Physical Health | | - | | + | + | |
| Safety & Security | | | | + | + | |
| Social Connections | + | - | | + | + | |





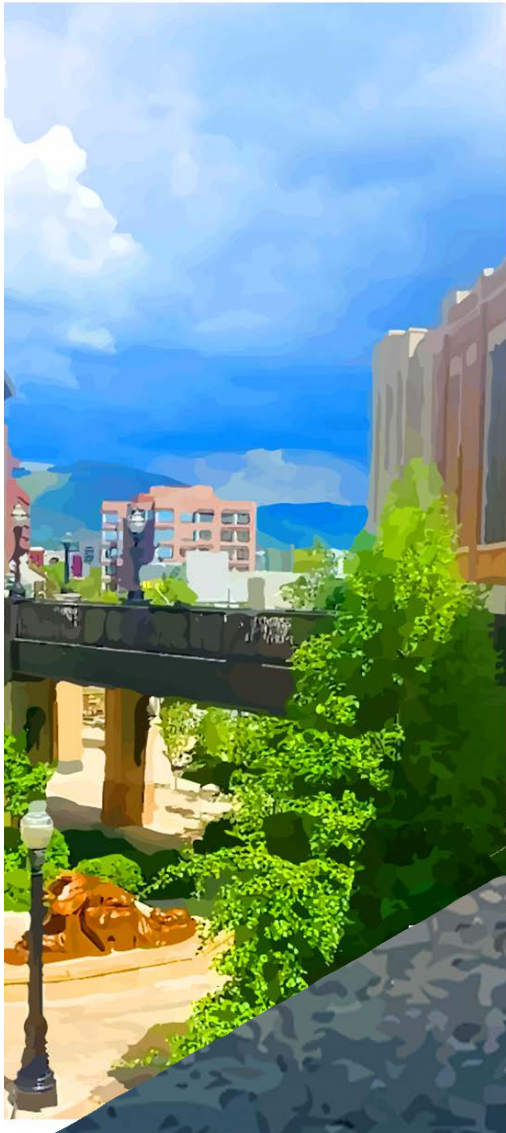
“Land use... the biggest fights we see now are you have the residents who are here and they want to **protect that small town feel** or that suburban feel...”





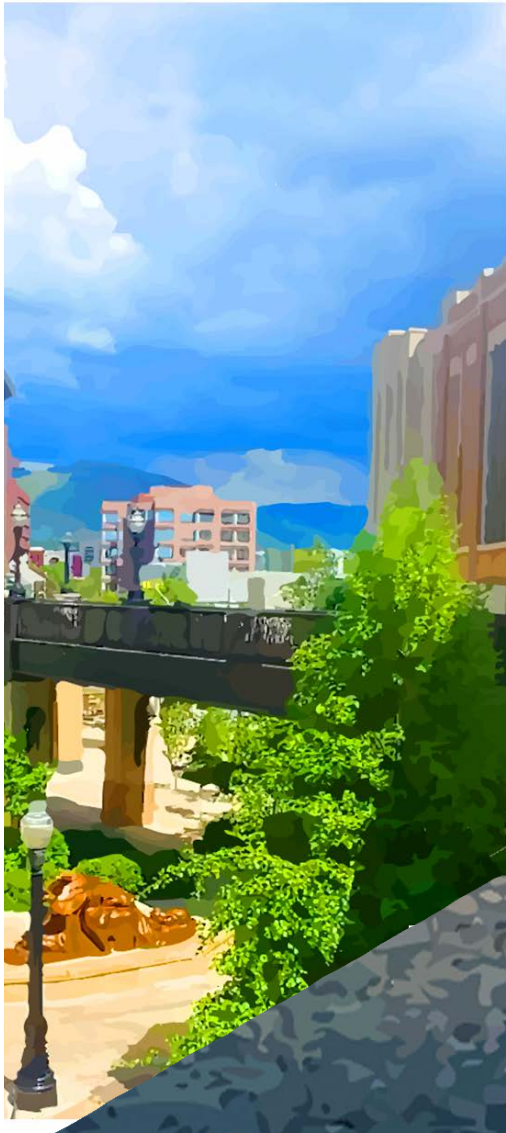
“...And you have developers and prospective home buyers that want more **affordable housing, denser housing, more vertical development.** And there’s that fight between the two groups, competing interests...”





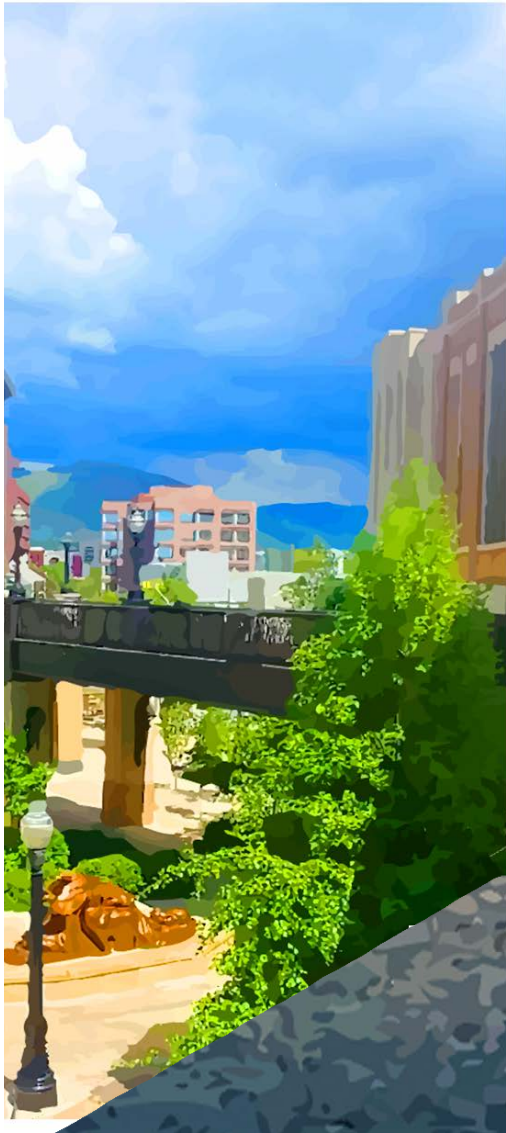
“...It’s interesting because you even have where existing homeowners, they might be on a $\frac{1}{4}$ acre lot, they’ll protest lots of the same density...”





“...It’s kind of that drawbridge effect. Now that we are in, we want to pull it in and not let anyone else in. **That’s our biggest struggle...**”





“...Where do we balance the property rights of the existing residents with the property rights that these developers have, or future residents have to put their property to the **highest and best use...**”

*Lehi City Administrator
Jason Walker*





-residents-dont-like-what-they-see-in-plan-for-former-cottonwood-mall-site/





