

THE ECOLOGICAL AND ECONOMIC BENEFITS OF REGENERATIVE RANCHING IN CALIFORNIA



Kevin Alexander Watt - November 14, 2019

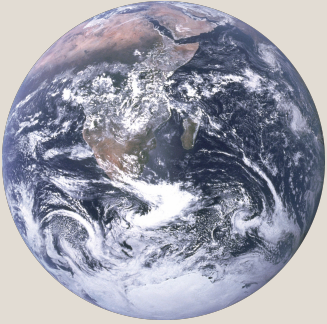


a learning laboratory and educational center

*with a mission to provide healthy food on working
lands in a way that regenerates the planet and inspires
others to action*

WHY WE CARE. A PROMISING SOLUTION TO MANY PROBLEMS.

Climate Stability



*Decrease GHG through
carbon sequestration*

Rural Economics



*Increase profit for
farmers and ranchers*

Health & Wellness



*Increase human well-being
of body, mind, and spirit*

Water



*Improve water quality and
increase holding capacity*

Soil



*Improve soil health and fertility
and reduce topsoil loss*

Animal Welfare



*Improve well-being and
performance of livestock*

Biodiversity



*Steward ecosystems to be
productive and diverse*

Food Security



*Increase net productivity
and resilience of our working
lands*

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Improved management on grazinglands alone can offset between 7-15% of current annual global CO2 emissions.

(Mayer et al. 2018; Paustian et al. 2018)

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Planned adaptive grazing can help slow or reverse topsoil loss by building organic matter and reducing compaction.

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Biodiversity

Regenerative ranching can support native plants, songbirds, and listed vertebrates and control invasive plants.

(Gennet et al. 2017; Marty 2005; Henneman et al. 2014; Bartolome et al. 2014; Stahlheber and D'Antonio 2013; DiTomaso et al. 2007)

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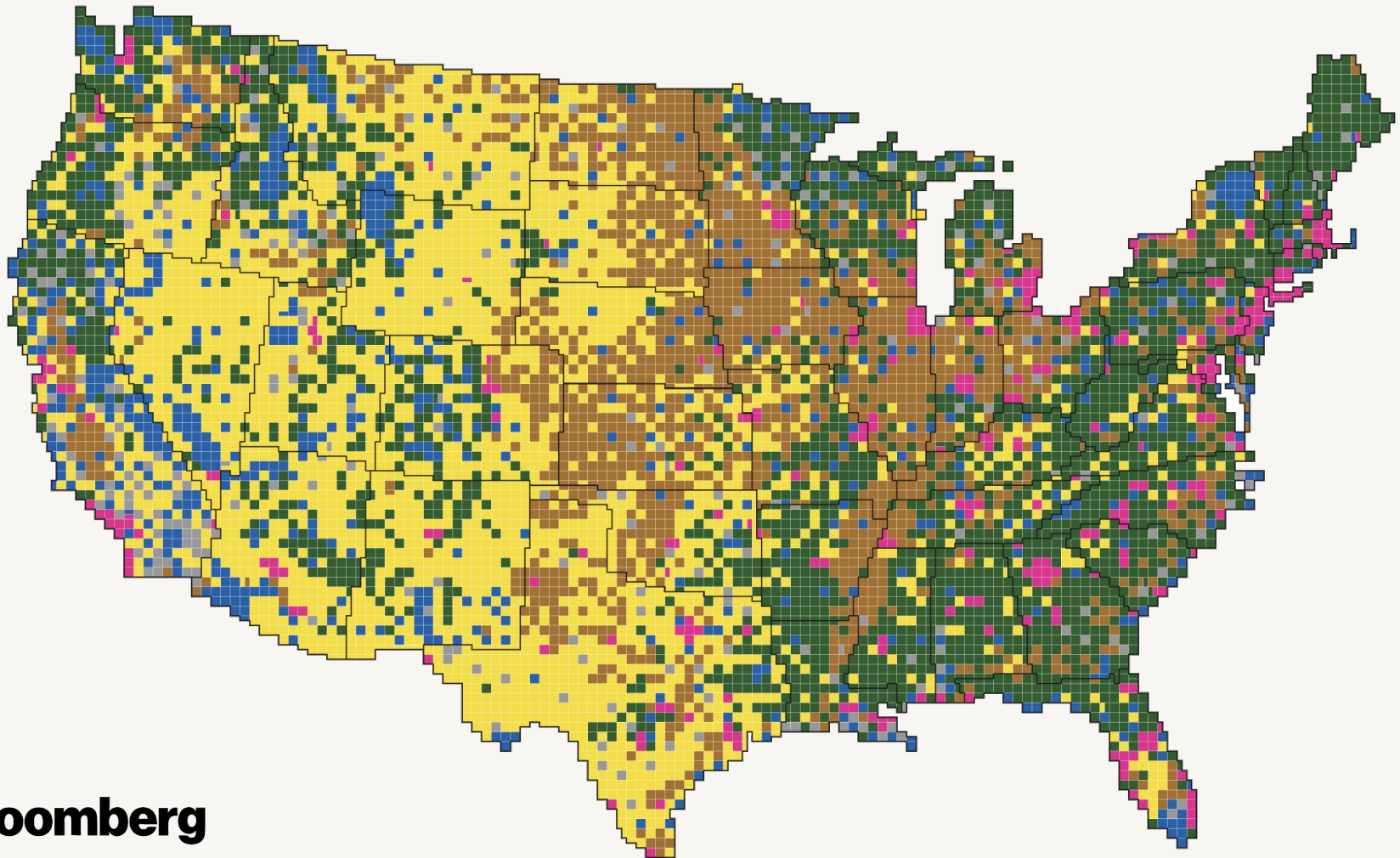
Food Security

Meat provides 18% of the calories and 25% of protein in global diets. 86% of livestock feed uses crop residues and byproducts unsuitable for humans.

(Mottet et al 2017)

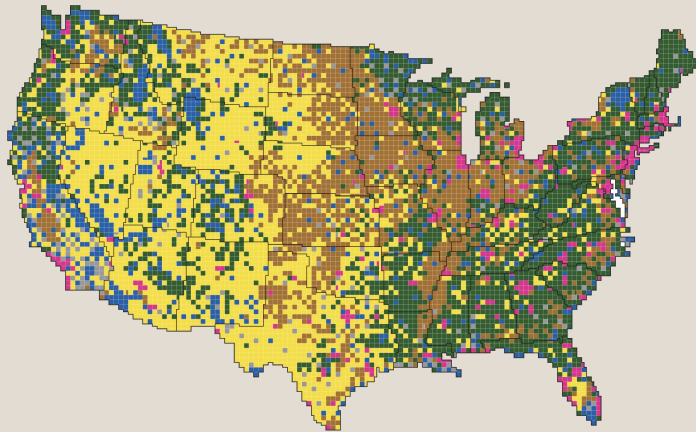
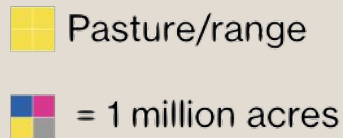
POTENTIAL. WHY RANGELANDS?

■ Pasture/range ■ Forest ■ Cropland ■ Special Use ■ Miscellaneous ■ Urban
■ = 1 million acres



Bloomberg

POTENTIAL. WHAT WOULD 1 MILLION ACRES DO?



STEWARDSHIP AND LIVELIHOOD

- ❖ Improved land stewardship and economic gains/resilience.

CLIMATE STABILITY

- ❖ Up to 1.4 million more metric tonnes CO_{2eq} sequestered per year.

WATER STORAGE

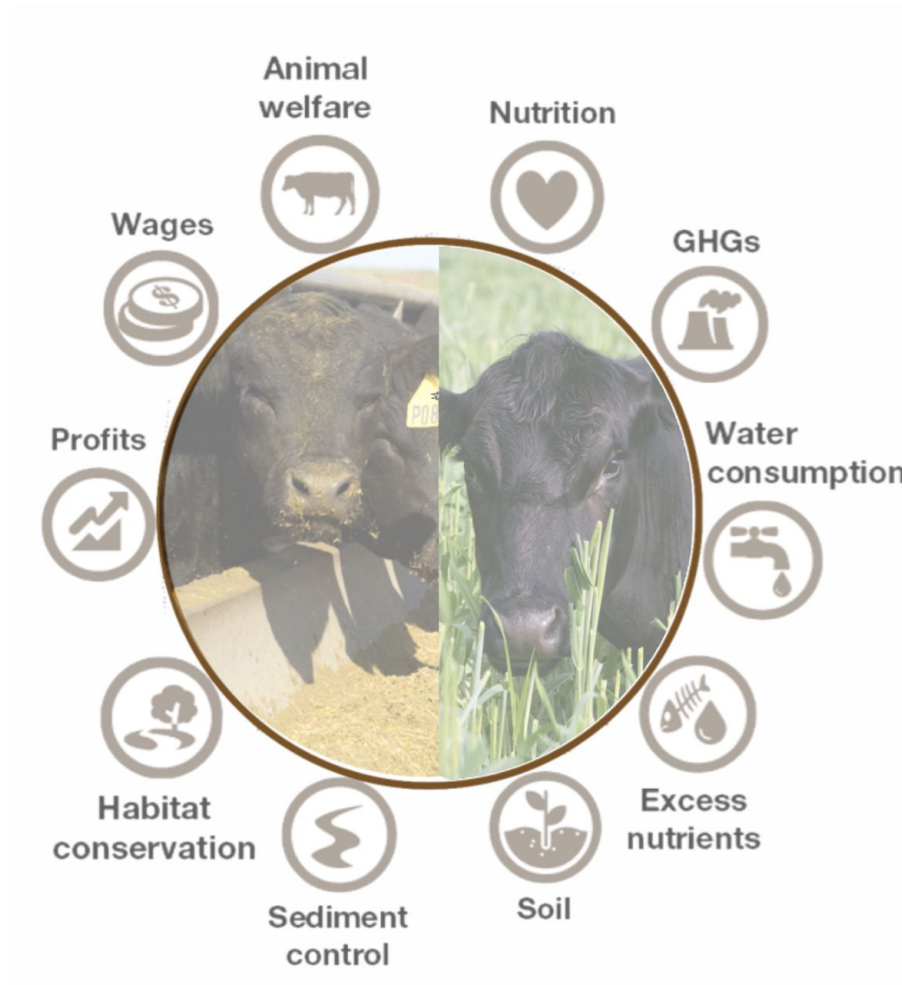
- ❖ Up to 32.4 billion more gallons of water captured and held in the soil.

BIODIVERSITY

- ❖ Thriving, diverse plant and wildlife communities.

TRUE COSTS OF BEEF. VALUING THE WHOLE SYSTEM.

-\$3.03 / lb
INDUSTRIAL
BEEF
(Negative Impact)

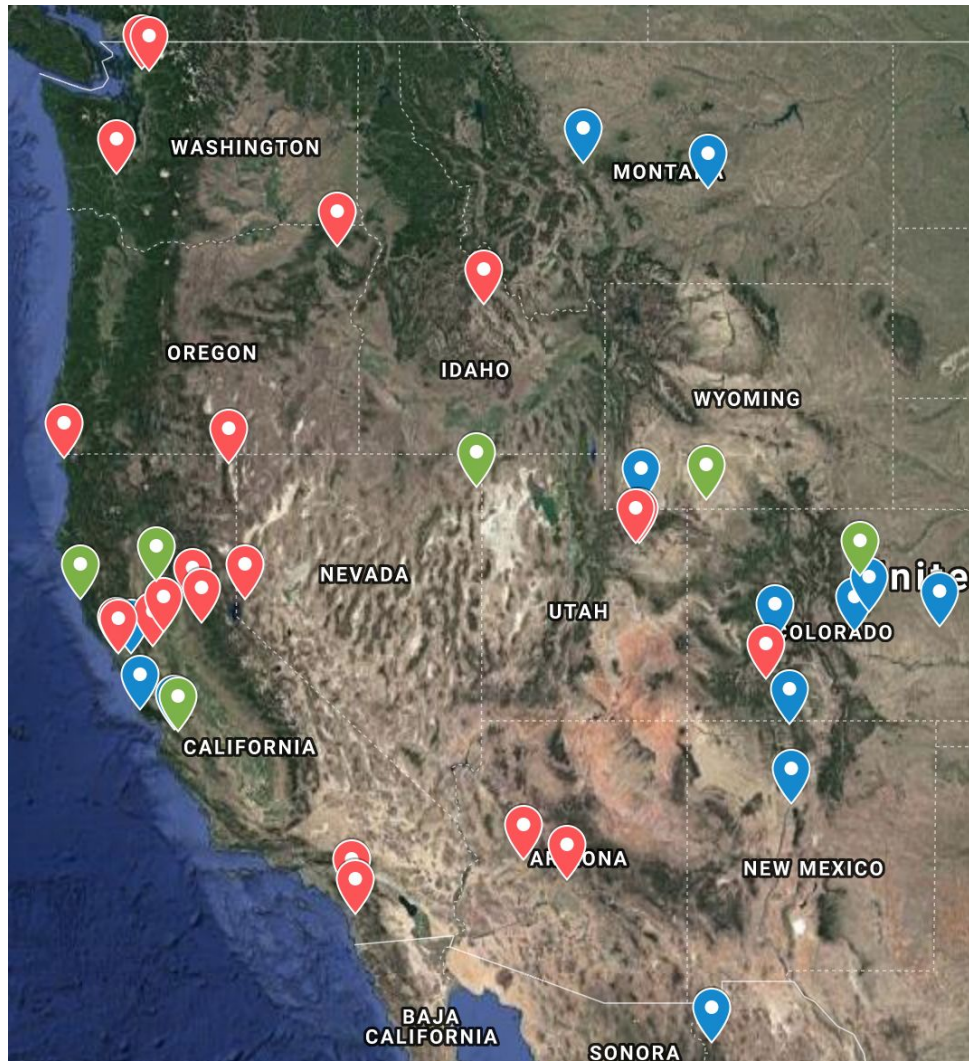


+\$6.97 / lb
REGENERATIVE
BEEF
(Positive Impact)

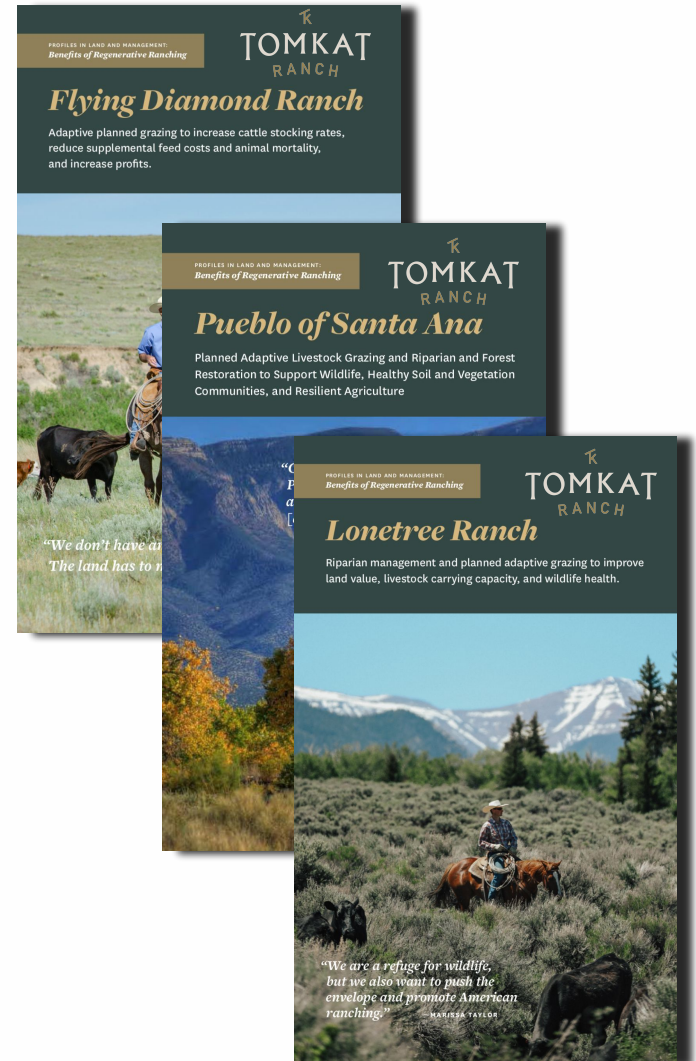
For more details and supporting documents regarding this analysis, see

<https://tomkatranch.org/2018/08/06/accessing-the-total-impact-of-tomkat-ranch-research-and-methodologies/>.

SHARE. PROFILES IN LAND AND MANAGEMENT.



Green: Public Lands 2018 Blue: Private Lands 2018 Red: Prospective Profiles 2019



ROOT DOWN FARM

ADAPTIVE PLANNED MULTI-SPECIES GRAZING

- ❖ Hosted 27 educational gatherings in 2018.
- ❖ Grew business 2x from 2017 - 2018.
- ❖ Completed ~\$47,000 in conservation projects with the NRCS.



“I want to show people that meat comes from living creatures and has a direct impact on the health of our planet and how we treat those animals and the land really matters.”

MORRIS GRASSFED & HOLLISTER HILLS STATE VEHICULAR RECREATION PARK



ADAPTIVE PLANNED GRAZING

- ❖ Received ~50% discount on leases because of commitment to grow the long-term productivity and resilience of the land.
- ❖ Increased soil cover 60% to 90%.
- ❖ Increased stocking capacity 100% - 300%.

“By demonstrating improved effects of management of land and livestock, we have been able to grow our marketing business and attract and keep customers for our beef.”

SHARE. PROFILES IN LAND AND MANAGEMENT.

The Many Faces of Regenerative Land Management



SHARE. PROFILES IN LAND AND MANAGEMENT.

Profiles in Land and Management

[ABOUT](#) [PROFILES](#)

Benefits of Adaptive Grazing

The Profiles in Land and Management series features the work of innovative ranchers and land managers who are achieving economic and ecological benefits on working lands.

Click through their stories to find out about the successes they are having using regenerative practices.

[About the project](#)



“We use TomKat Ranch as a catalyst for transforming how we care for the land and each other. Regenerating communities goes hand in hand with regenerating and restoring healthy land.”

WENDY MILLET
RANCH DIRECTOR

A group of cattle, including several black and white Friesians and a few brown ones, are standing in a lush green field. The sky is a vibrant blue with wispy white clouds. The text "JOIN US." is centered in the upper half of the image.

JOIN US.

Please email us at Reachout@TomKatRanch.org with any questions or comments.