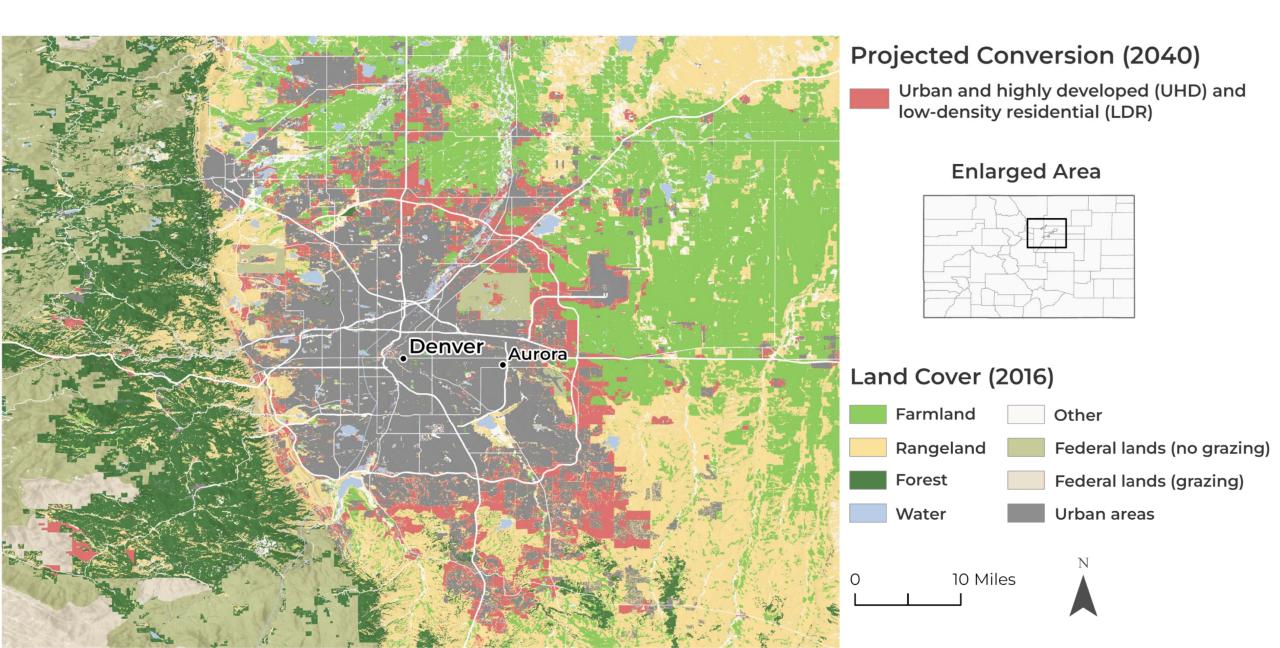






America's farmland is under threat of conversion.



Land development is largely a one-way path.



Rural ag + forestry

Low Density Residential (LDR)

Urban and Highly Developed (UHD)























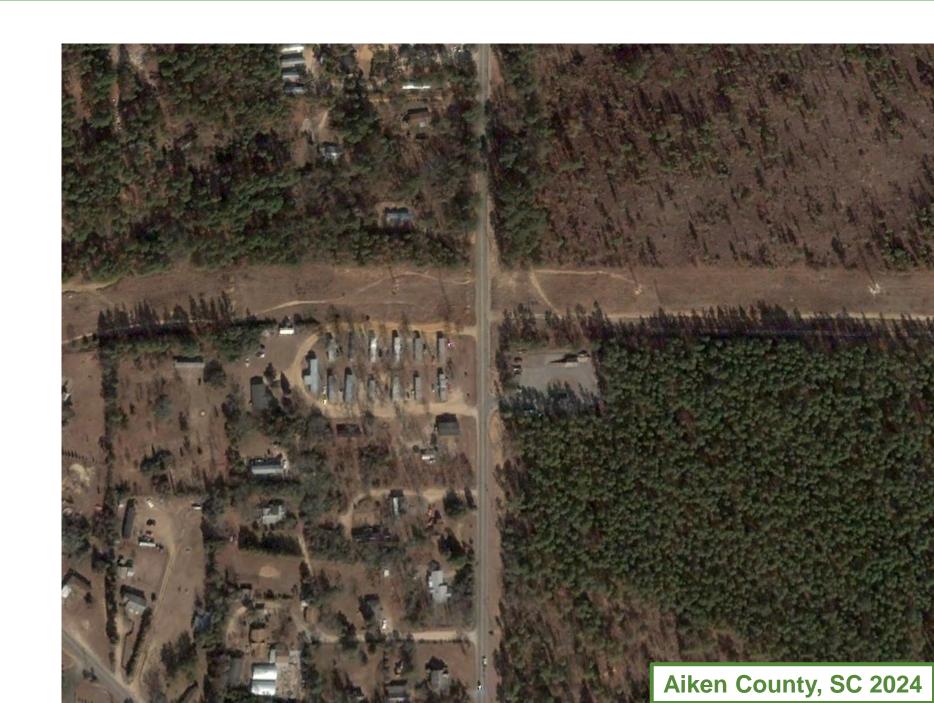






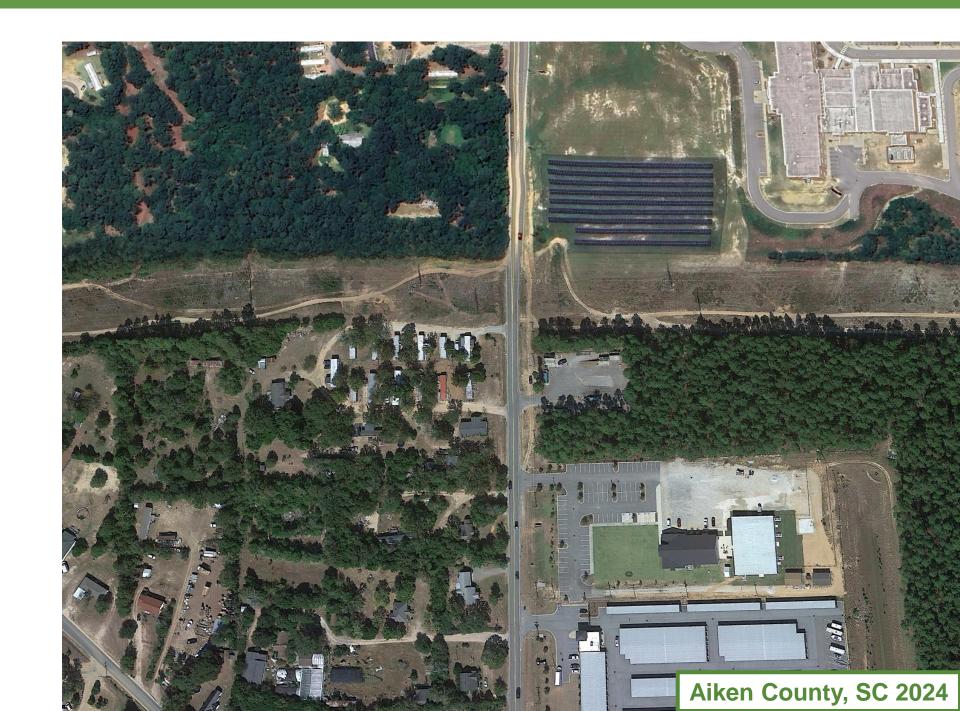


LDR attracts urban intensification.



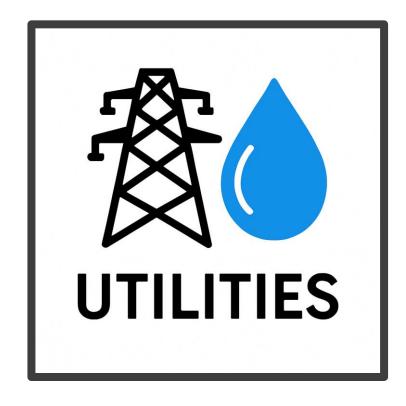


LDR attracts urban intensification.

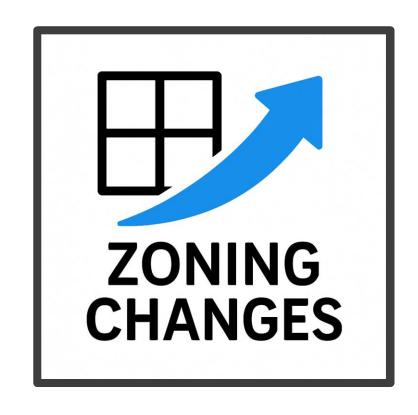




Why does LDR attract urban intensification?



Makes land more accessible

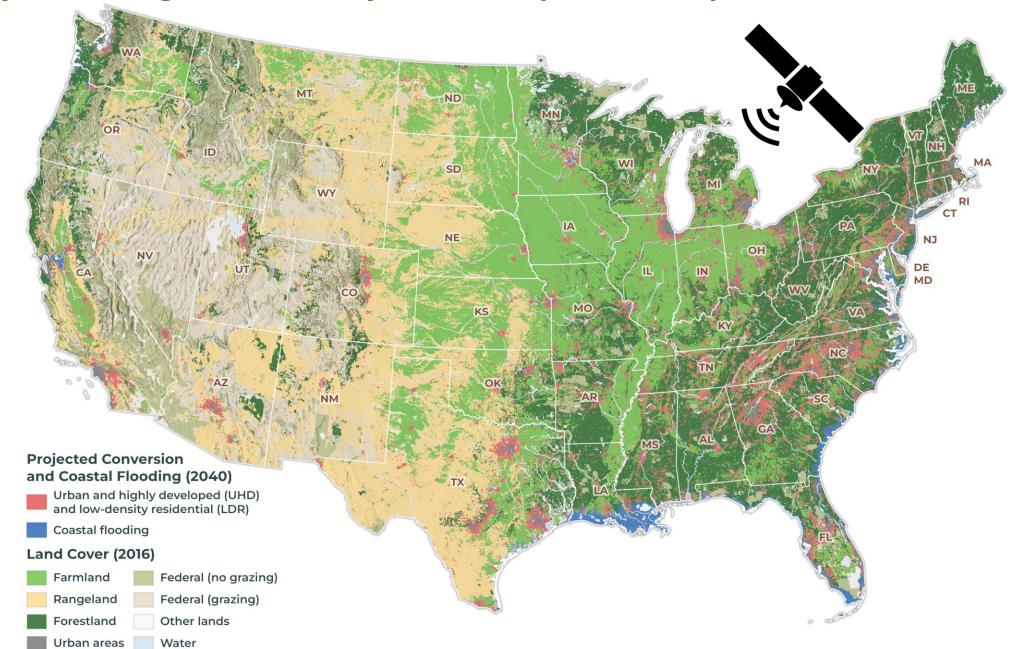


Makes land easier to change





Nationally, LDR is a big deal. But locally, land development is complex.







Farmland loss due to warehouse development



Farmland loss due to warehouse development



Amazon considers \$15 billion warehouse expansion plan, Bloomberg News reports

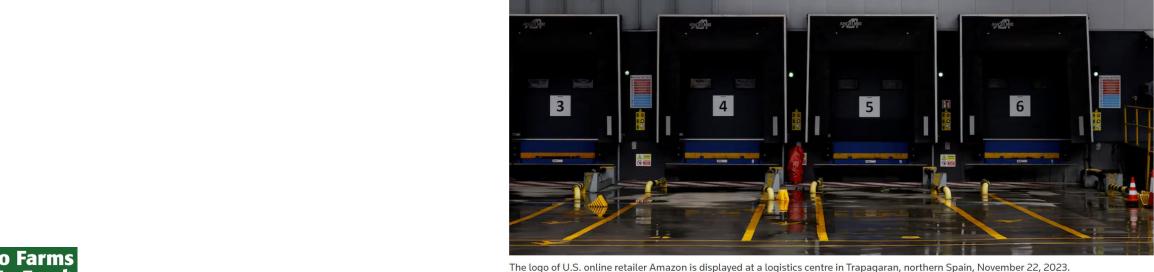
amazon

By Reuters April 9, 2025 12:58 PM EDT - Jpdated 8 days ago





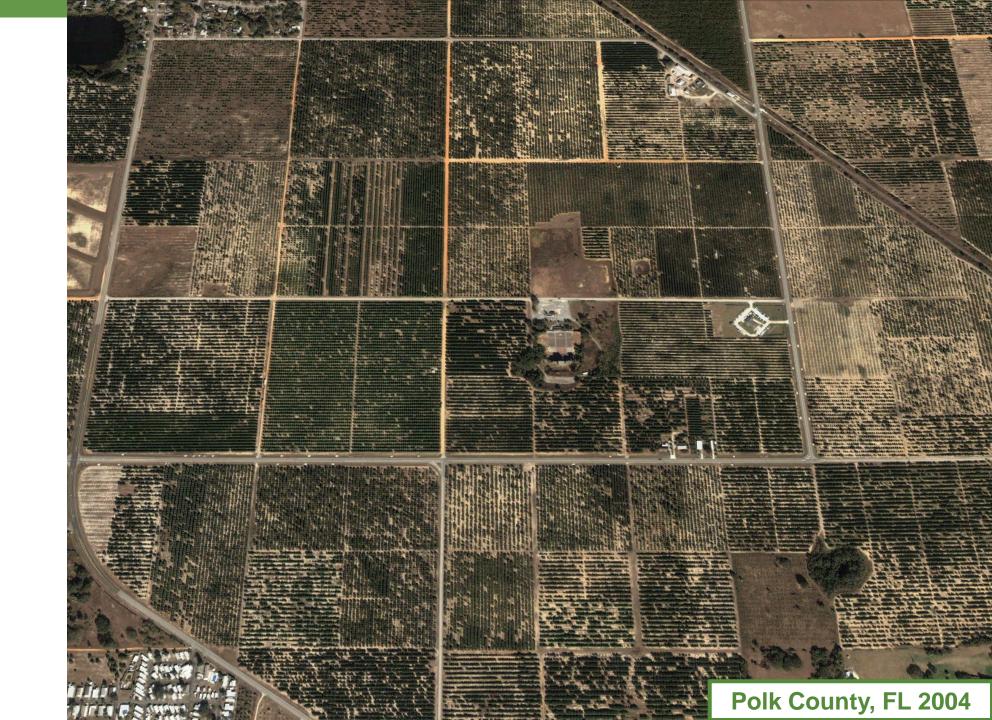








Farmland loss due to environmental stress.

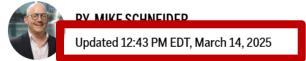


Farmland loss due to environmental stress.



Farmland loss due to environmental stress.



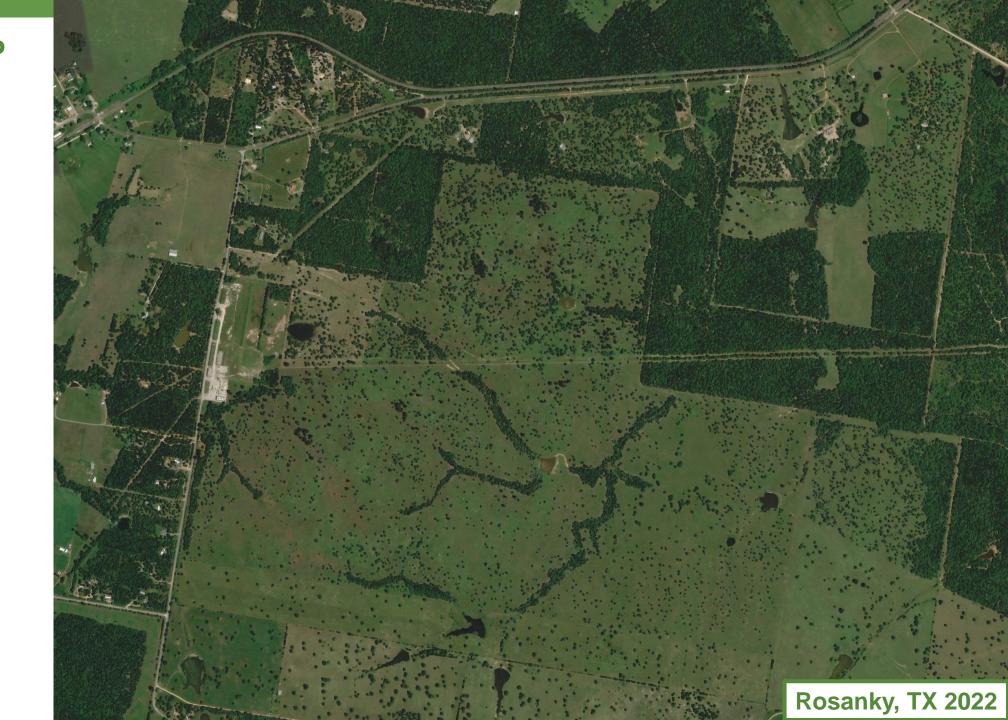


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Farmland loss due to solar development.



Farmland loss due to solar development.



Farmland does not always have to be lost to development.

AFT Smart Solar

Prioritize solar siting on buildings and land not well suited for farming

Safeguard the ability for land to be used for agriculture

Grow both agricultural production and solar energy







Farmland does not always have to be lost to development.



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Agrivoltaics looks to revolutionize global food production

The widespread use of agricultural land for solar farms has sparked fears of shrinking crop yields and harm to biodiversity.



JOSHUA SHAVIT Publishe Apr 14, 2025 3:07 PM PDT





Spokane, Washington Est. May 19, 1883

> Nation World

NEWS > NATION/WORLD

Under a Texas sun, agrivoltaics offer farmers a new way to make money



Sept. 24, 2024 Updated Tue, Sept. 24, 2024 at 6:24 p.m.

How can we advance local planning for agriculture?



Aiken 2040 Visioning Session FINAL REPORT

JANUARY 2025

PREPARED BY

Sam Smidt, National Director of Land Use and Protection Research, ssmidt@farmland.org

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Casey Mitchell, Lead Cartographer, cmitchell@farmland.org





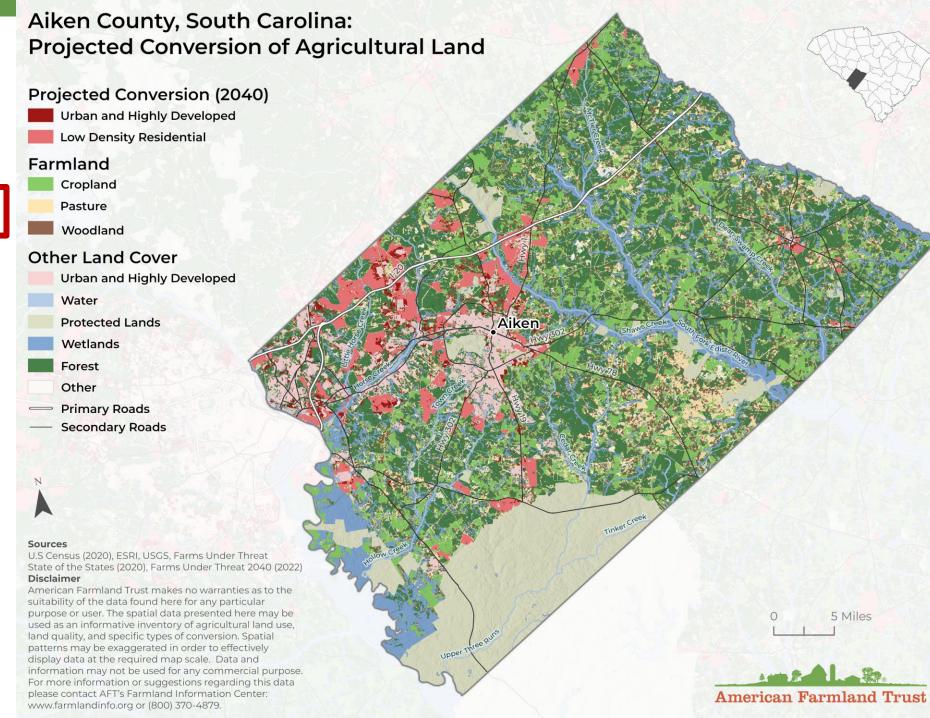


Aiken County, SC 2040

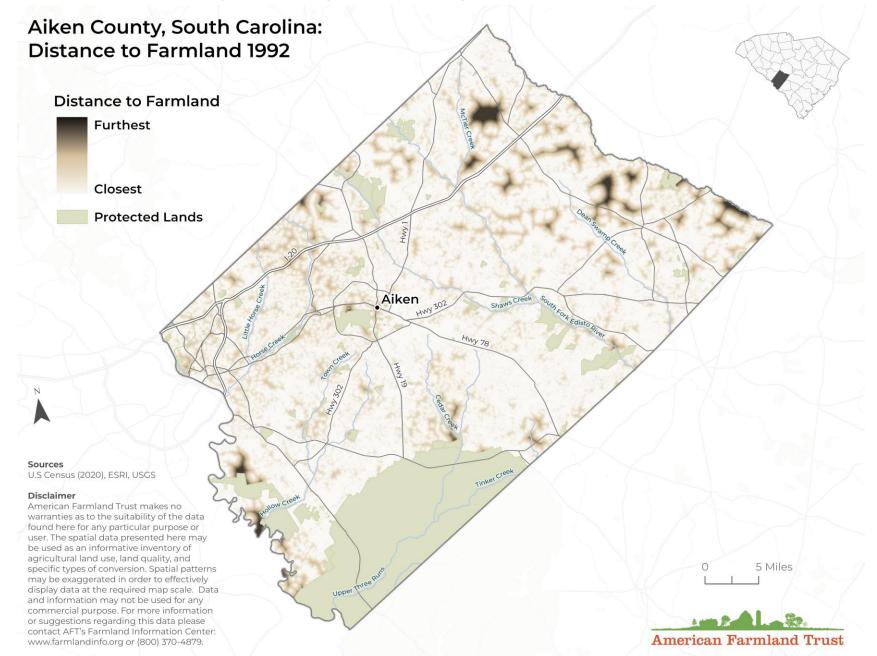
% Change (2016-2040)
Total farmland -9%
Total LDR 39%
Total UHD 16%







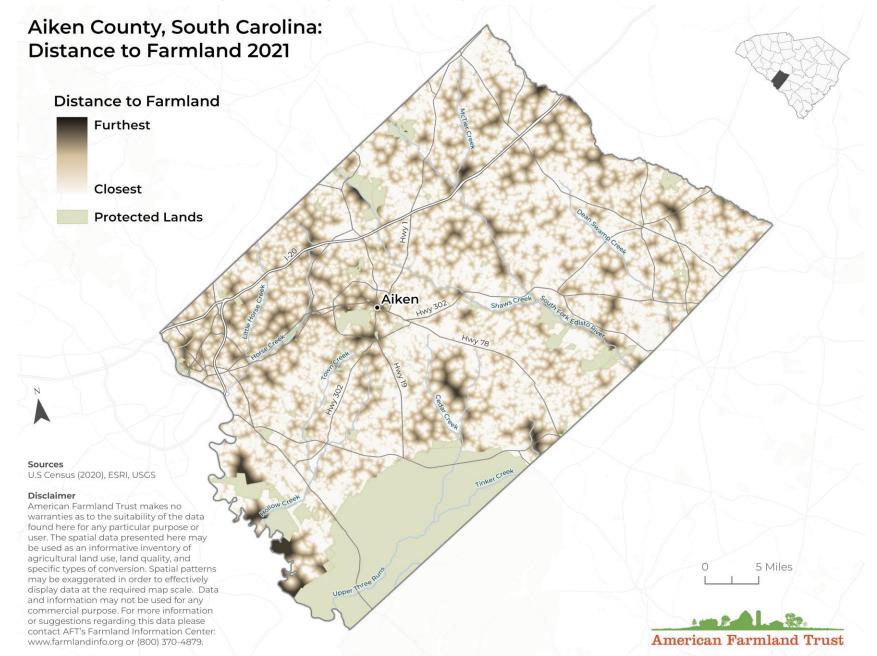
LDR, among other factors, is fragmenting Aiken's agricultural landscape.







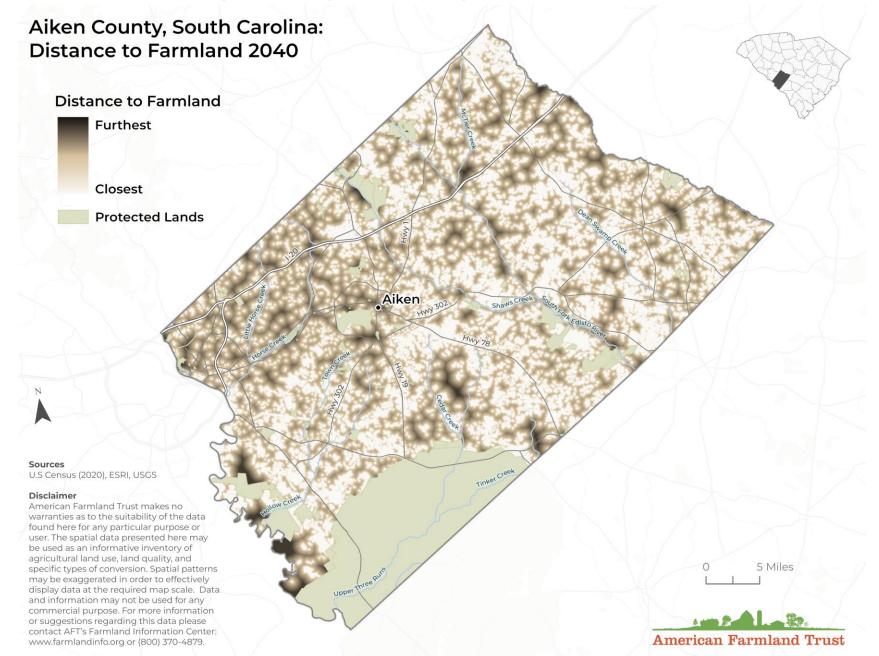
LDR, among other factors, is fragmenting Aiken's agricultural landscape.







LDR, among other factors, is fragmenting Aiken's agricultural landscape.

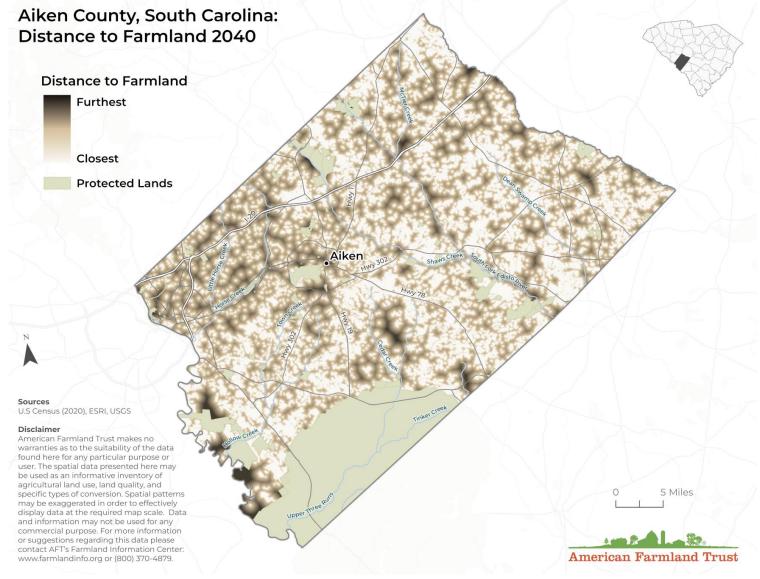






The Aiken County Challenge:

How can Aiken County promote its agriculture – including equestrian – without having runaway intensification and fragmentation?







Protection Priority Survey



Place A-H on the scale below based on your preference for protection.

No Policy Priority

Extreme Policy Priority

My Least Preferred

My Most Preferred

- A. Crops
- B. Forests
- C. Wetlands
- D. Pastures

- E. Lands Suitable for Solar
- F. Waterways
- G. Lands Close to Developed Areas
- H. Other: Highly Suitable Soils





Protection Priority Survey

How can we better understand tradeoffs when planning for agriculture?

Analytic Hierarchy Process (AHP)

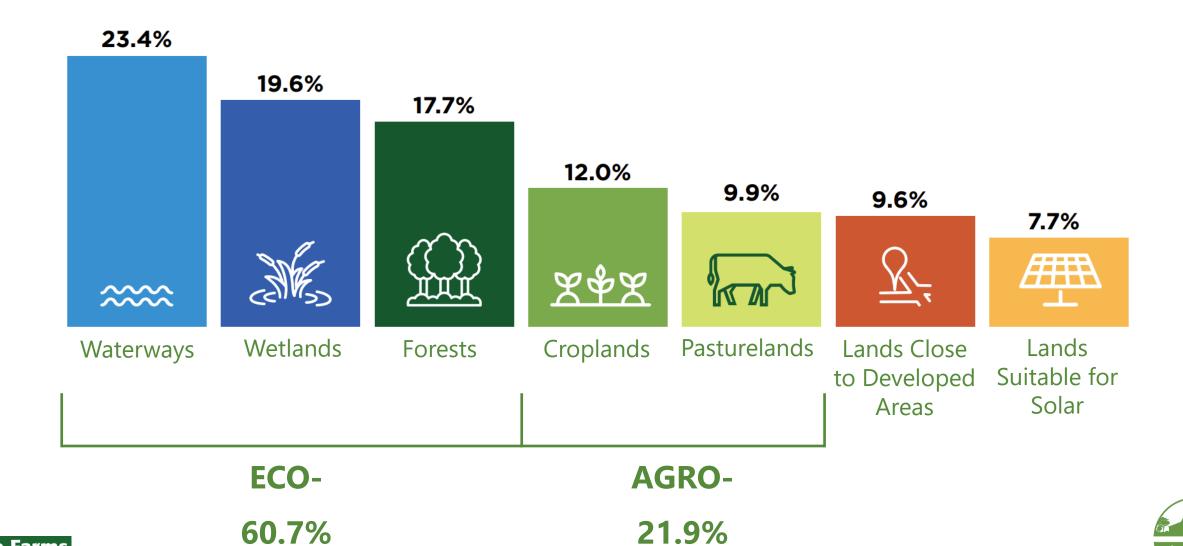
Helping to make decisions when tradeoffs have to be made



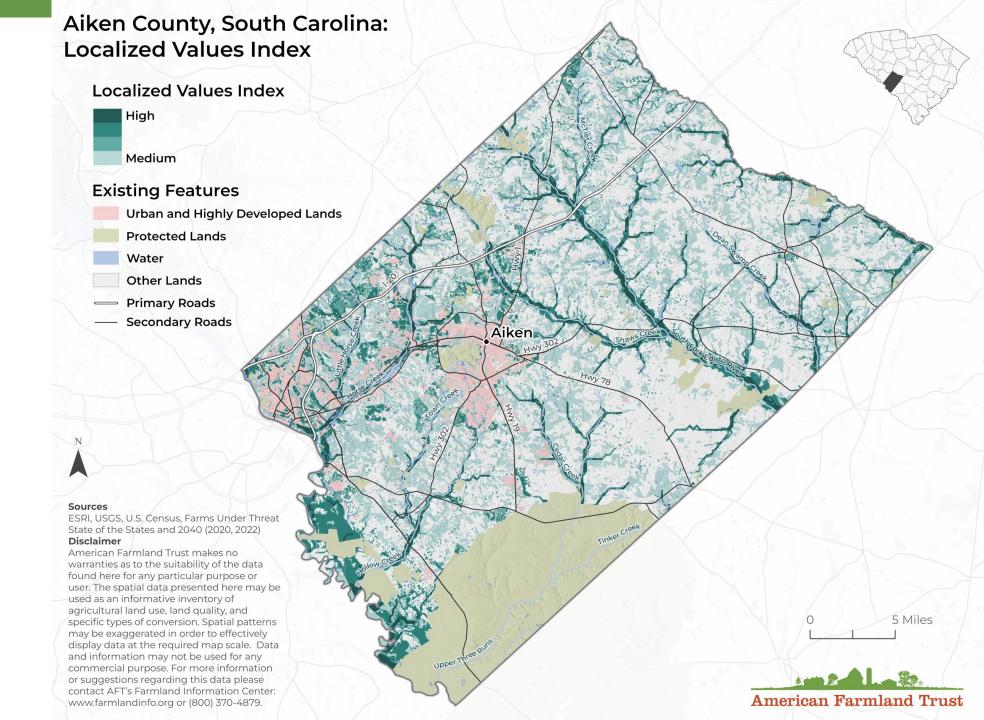


Protection Priority Survey

No Farms No Food

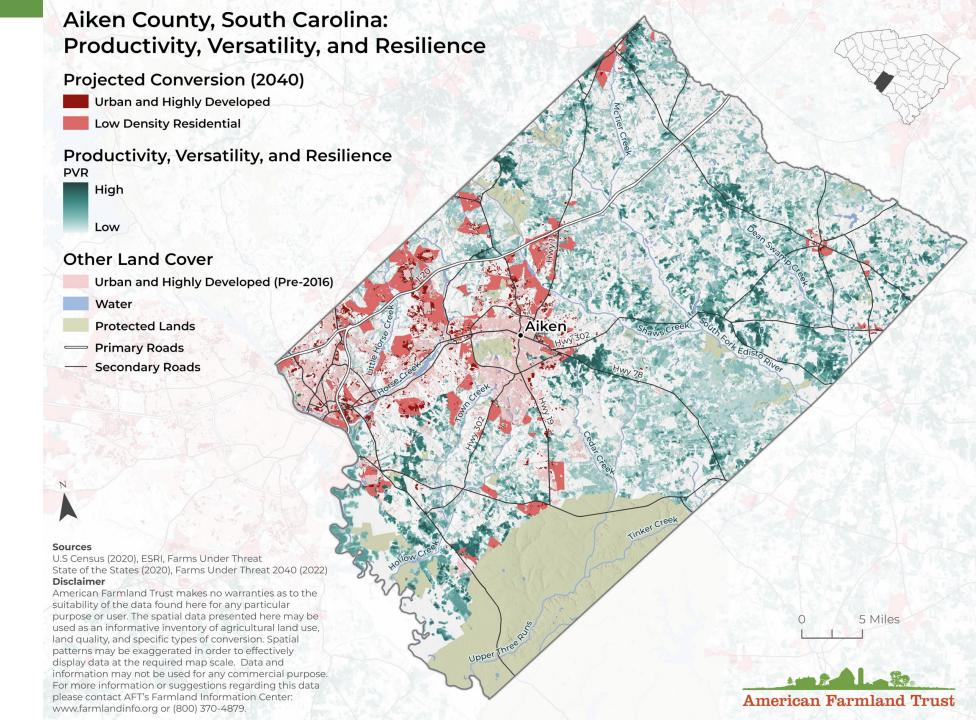


Localized values must be captured in decision-making





We can also integrate more specialized data





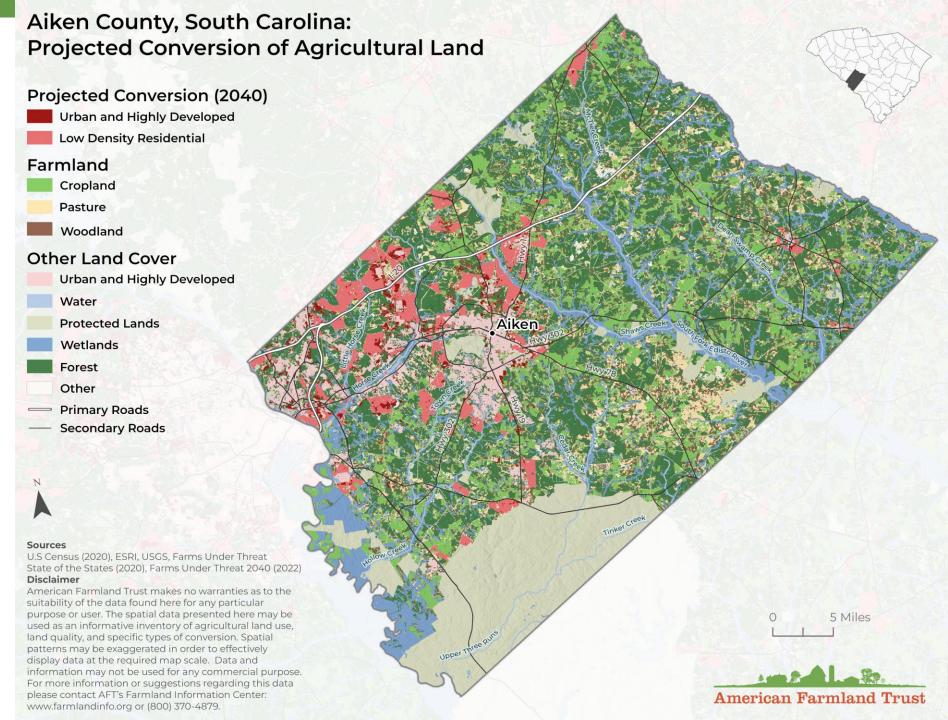
How can we plan for agriculture in Aiken County?

Considerations:

Equine dominates the area

Fragmentation is compromising the area

Localized values want to protect agro**eco**systems





Aiken Opportunities





American Farmland Trust



CONCLUSIONS:

- 1. Land cover data are ready to be utilized for agricultural planning.
- 2. Farmland loss is complex national vs. local trends may be different.
- 3. Localized values can be integrated to avoid one-size-fits all solutions.
- 4. Planning for agriculture requires holistic solutions.





