

Subfield Yield Analysis for Precision Agriculture

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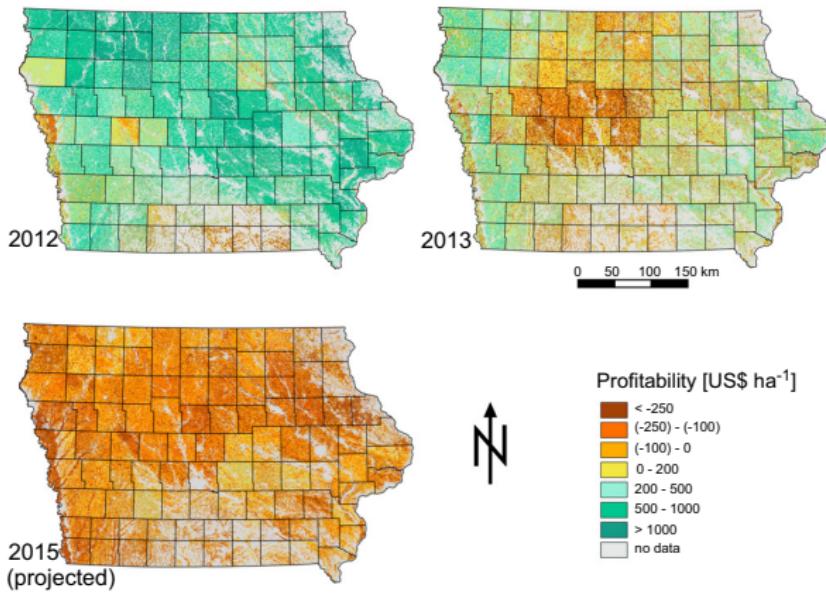
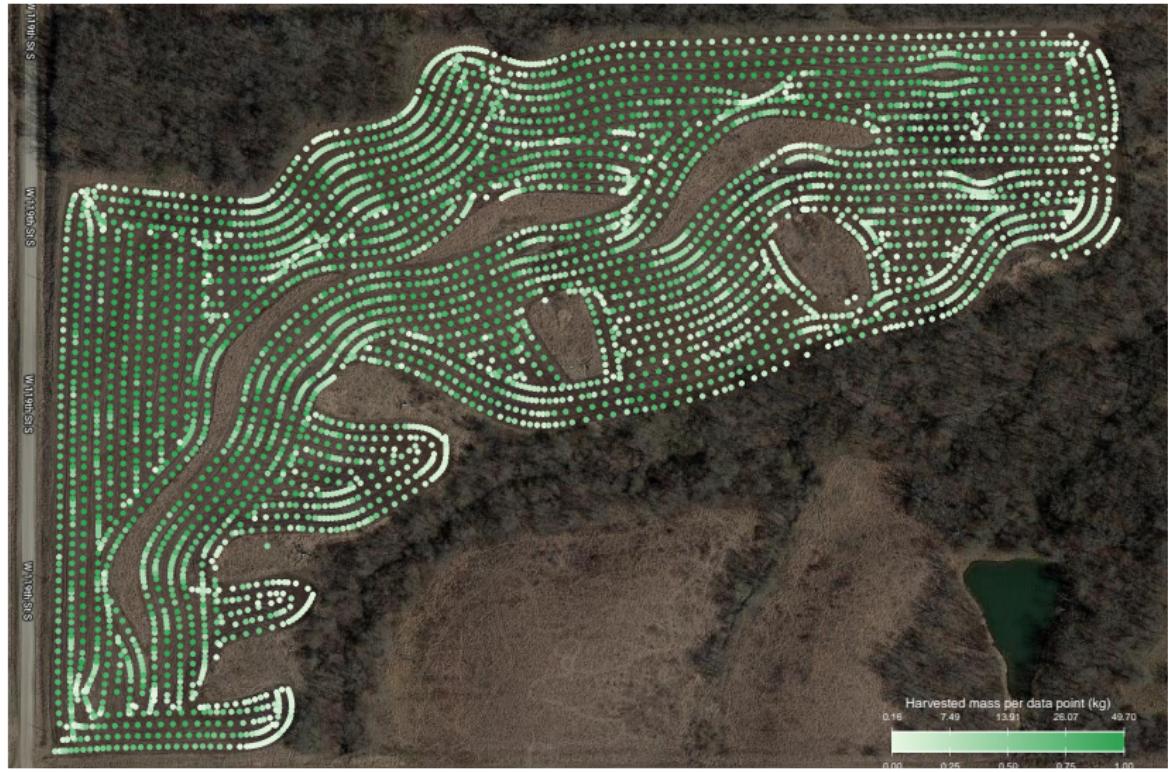


Figure 2. Distribution of subfield Iowa cropland profitability, 2010–2013, and projected profitability for 2015. Profitability was only calculated for crop fields in maize or soybeans in all four years (2010–2013). Other areas are shown as gray.

Brandes, Elke, et al. "Subfield profitability analysis reveals an economic case for cropland diversification." *Environmental Research Letters* 11.1 (2016):

014009.

Precision agriculture



Vehicle polygons



Gridded



Smoothed



Summary

Automated precision yield maps:

- Pre-processing to remove precision agriculture artifacts
- Spatial smoother

This slides are available

- <https://github.com/jarad/JSM2019>
- <http://www.jarad.me/research/presentations.html>

Thank you!