

BARLEY BRAIN

PREDICTING THE FUTURE OF YOUR FIELD!

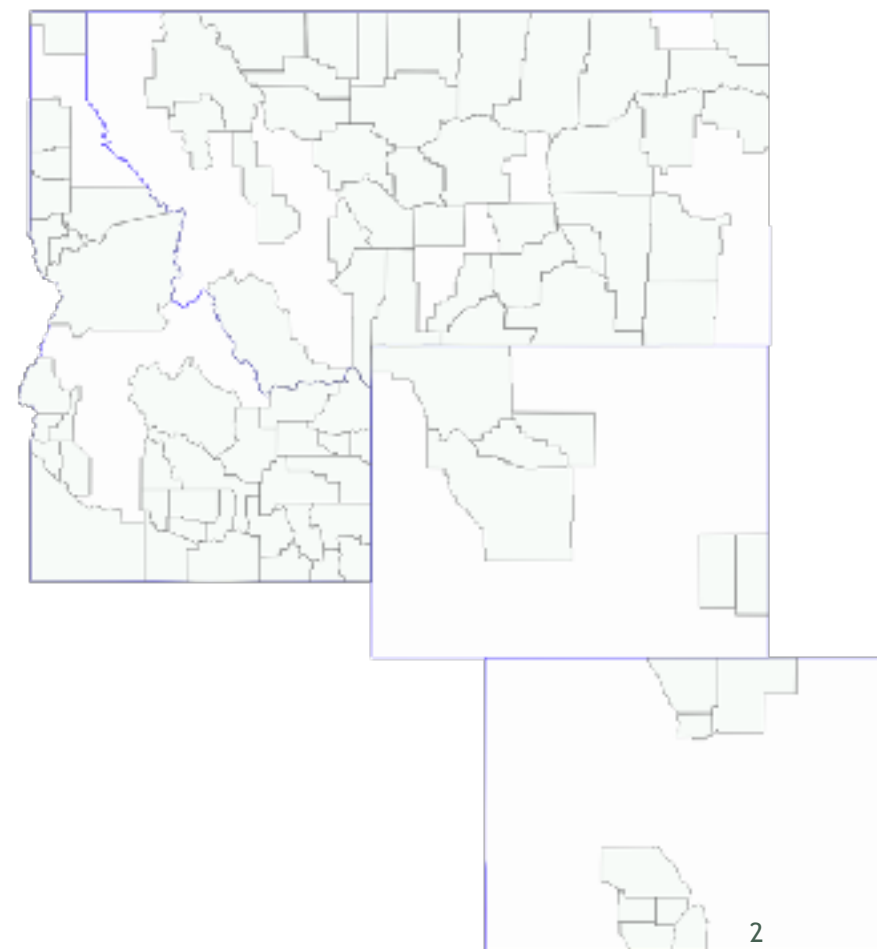


INTRO

What is Barley Brain

Barley Brain is a computer model to forecast regional barley yields in Colorado, Wyoming, Idaho and Montana.

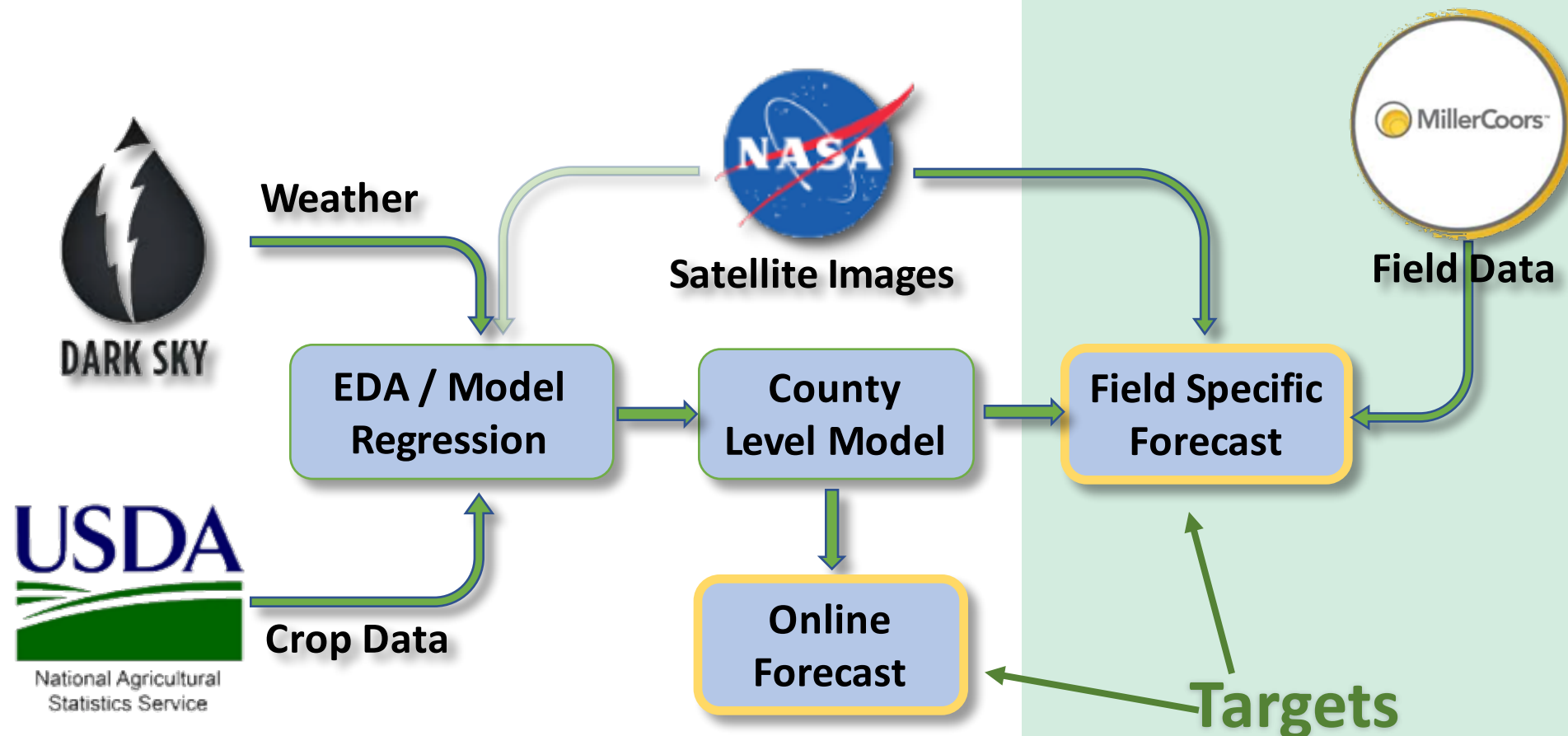
The model aggregates crop information, historic weather, and reported yield from 2010 to present to forecast future yields on a county basis



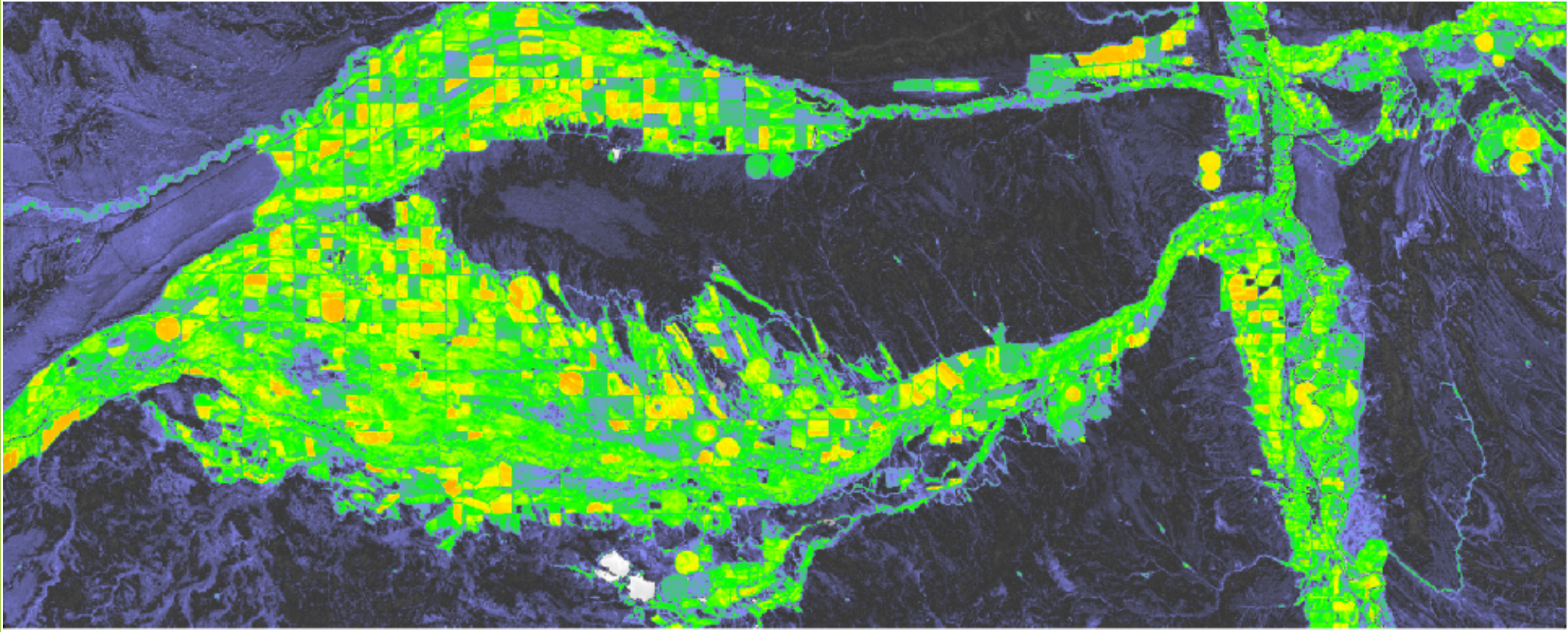
Process

Barley Brain Public

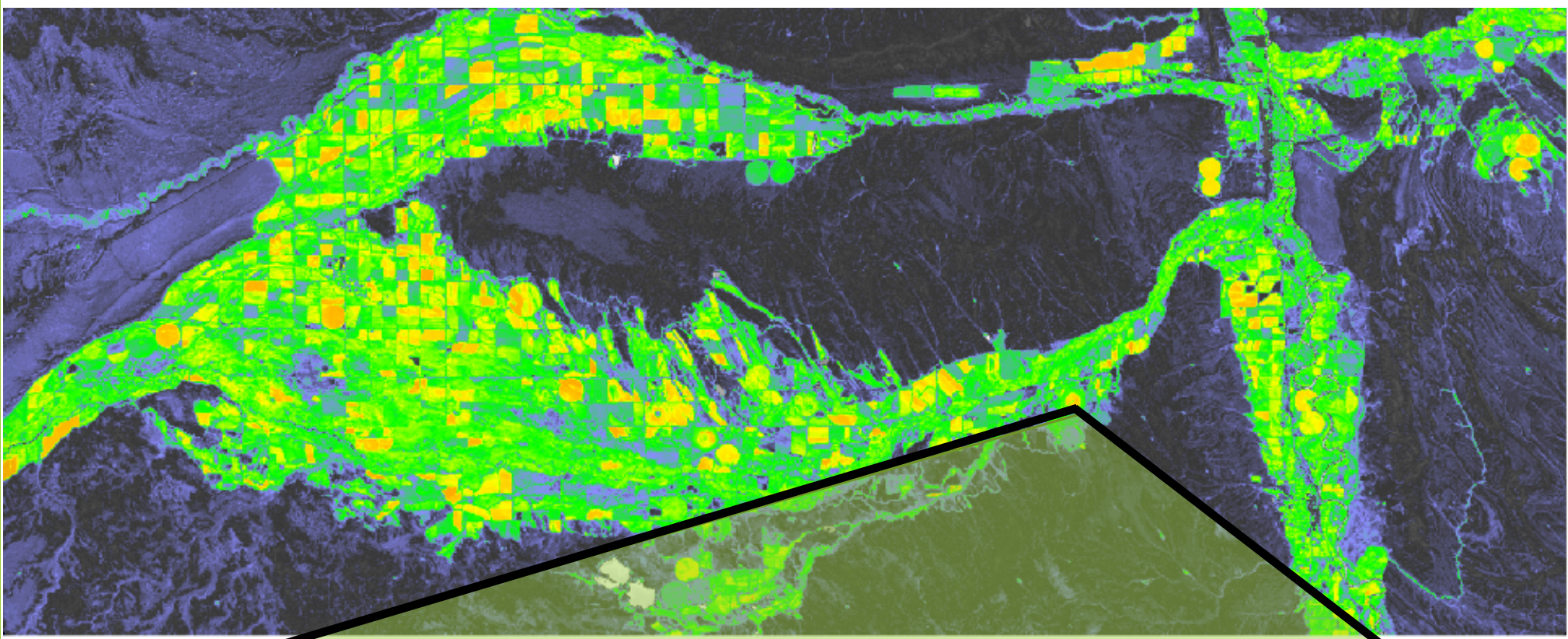
Private



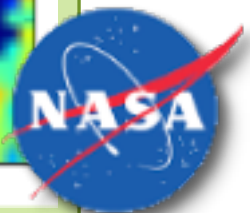
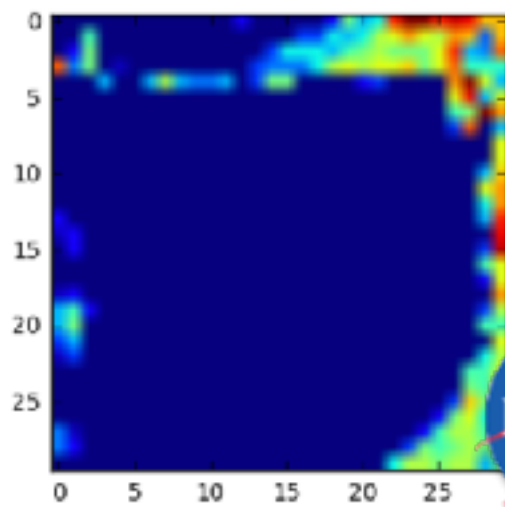
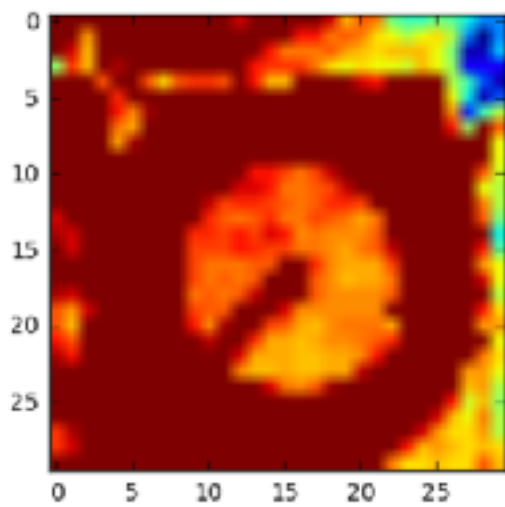
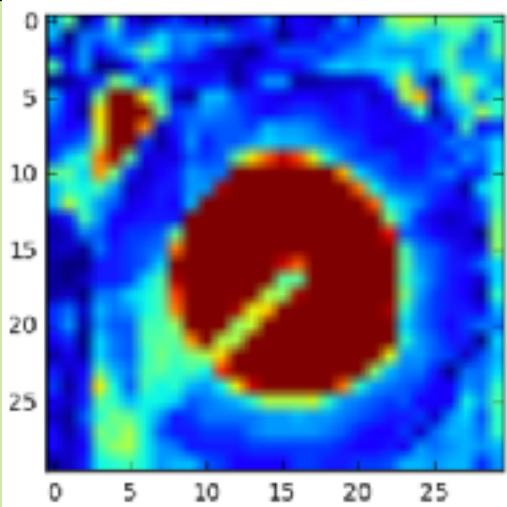
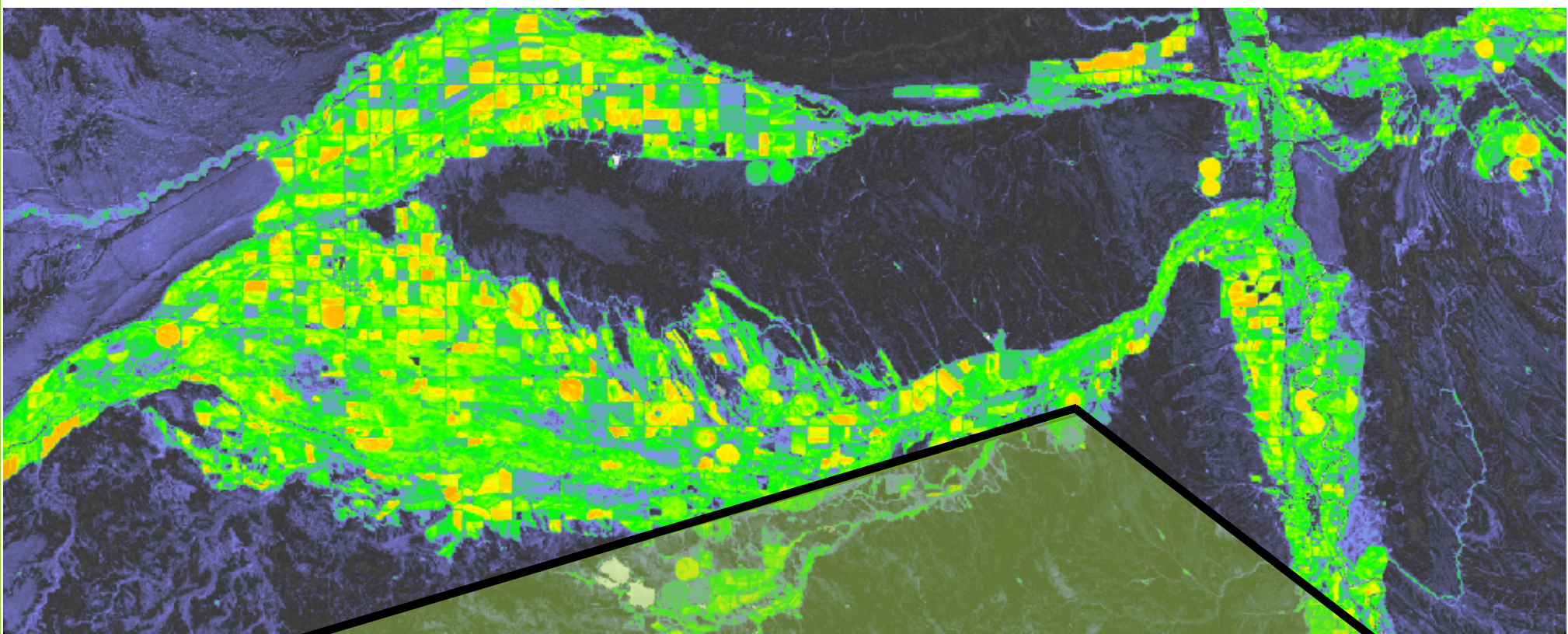
Satellites



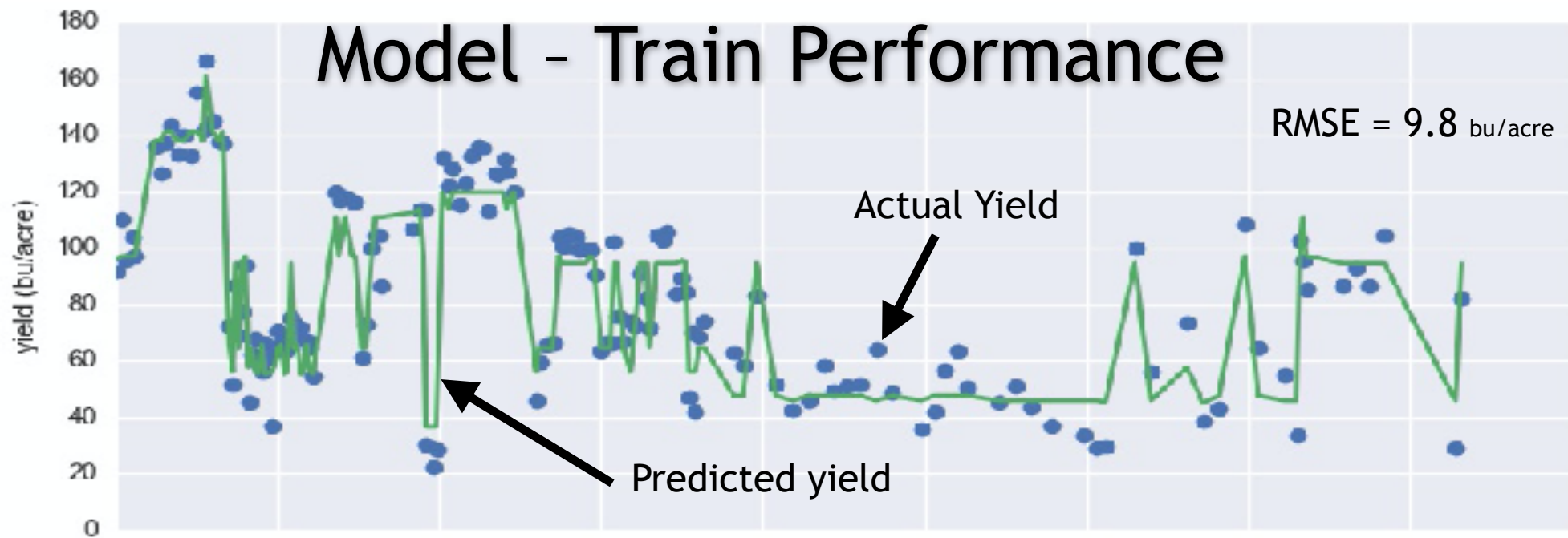
Satellites



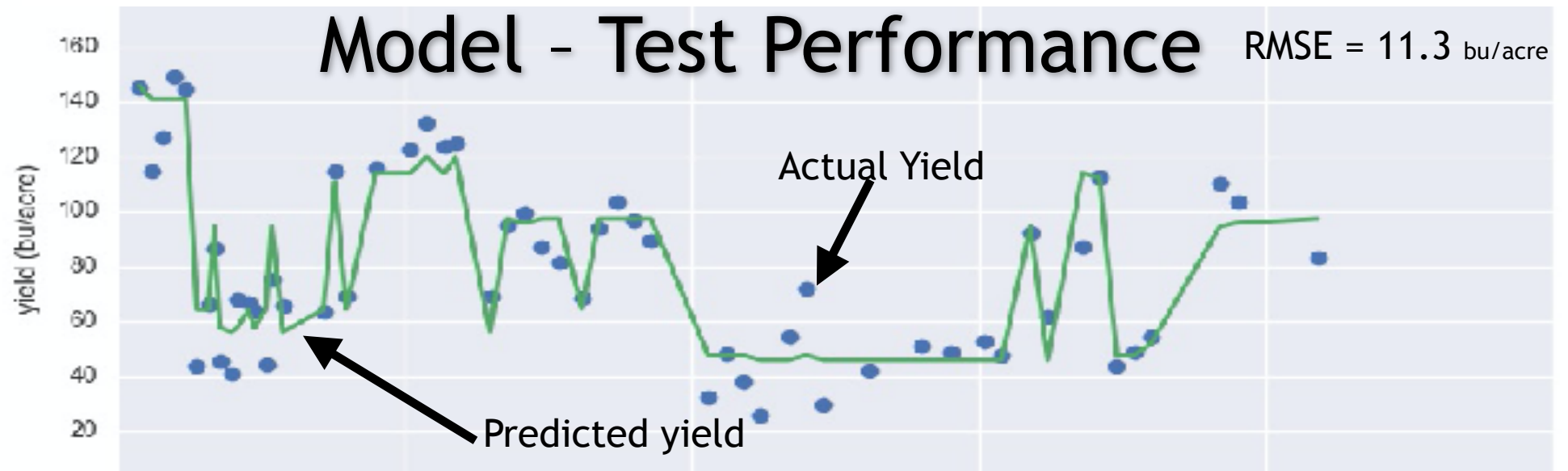
Satellites



Results



Results



Thanks!

Contact Information

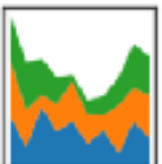
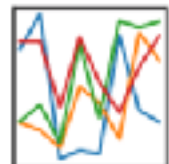
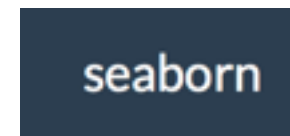
Robert Wade

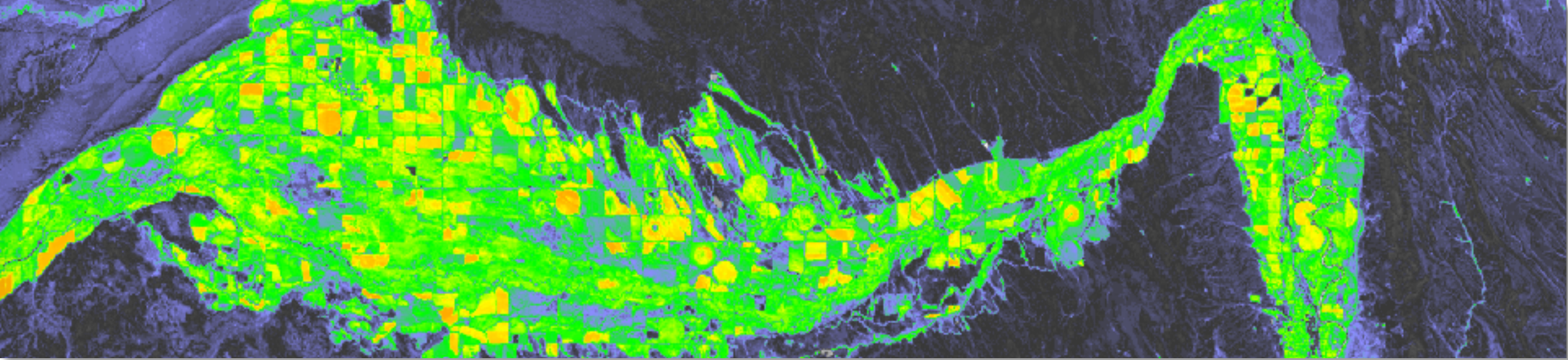
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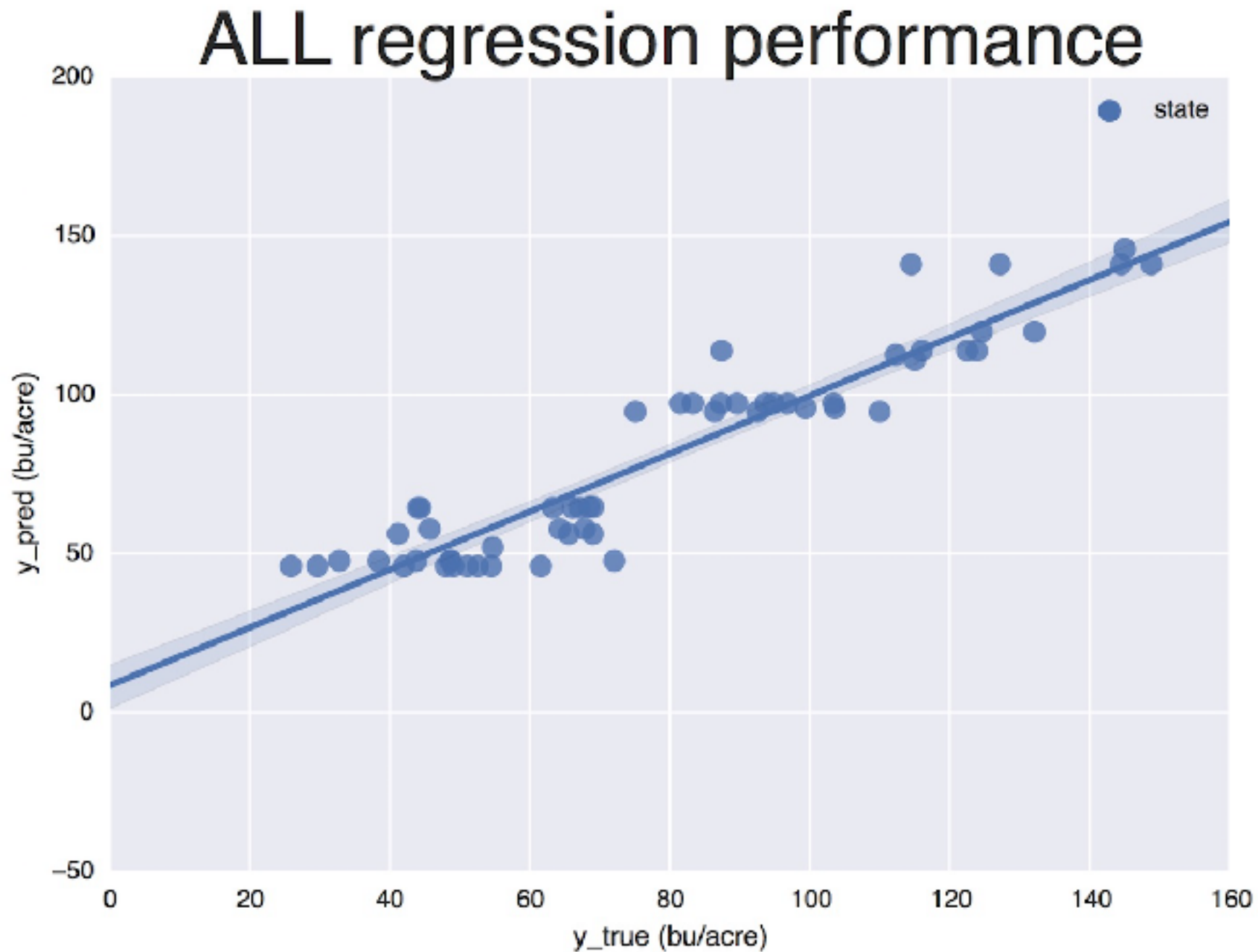




APPENDIX



Results



DATA

Public Data Sources



- National Agricultural Statistics Service →
 - Yearly reported crop data
 - <https://www.usda.gov/wps/portal/usda/usdahome>



- NASA LANDSAT8 Satellite data →
 - Satellite image feed for field health analysis
 - https://www.nasa.gov/mission_pages/landsat/main/index.html



- DARK SKY →
 - Historical and forecast weather (localized)
 - <https://darksky.net>

Private Data Sources



- **Miller-Coors**
 - Barley purchasing and horticulture group
 - Knowledge on key factors impacting barley yield
 - <https://www.millercoors.com>