

Introduction















Presentation Overview Sustainable Farms & Fields Grant Program (SFF) Spatial Datasets Live Demo WaCSE Workflow and Insights

SFF: Overview



Voluntary grant program to make it easier and more affordable to implement climate-smart practices

Free services such as on-farm consultations, climate-smart farm plans, technical expertise, and financial assistance

Mission: Incentivize farmers and ranchers to adopt sustainable practices to sequester carbon, reduce greenhouse gas emissions, and enhance soil health









SFF: Eligible applicants and practices



Conservation districts and other public entities may apply



Technical assistance (Potato Field Day, WSU)



Purchasing seeds (Crimson clover cover crop, King CD)



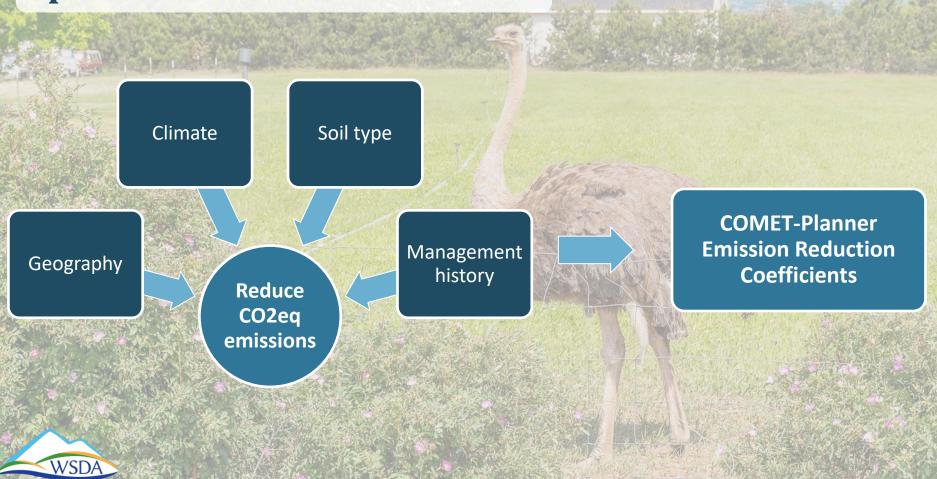
Purchasing shareduse equipment (Direct seeder, Foster Creek CD)



Cost sharing (Riparian planting, Palouse CD)

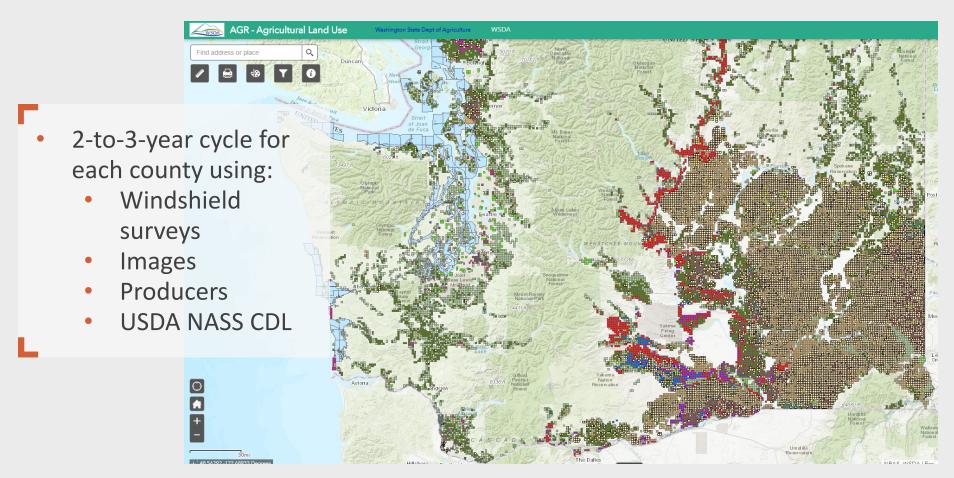
SFF: Prioritization Geographic distribution Commodity Partnerships distribution Reduce CO2eq emissions Fish and Farm pollinator size habitat 39 counties 725 named soil series Diversity, 27 conservation practices equity, and 92 practice implementations inclusion WSDA

Spatial datasets: NRCS COMET



Spatial datasets: WSDA agricultural land use

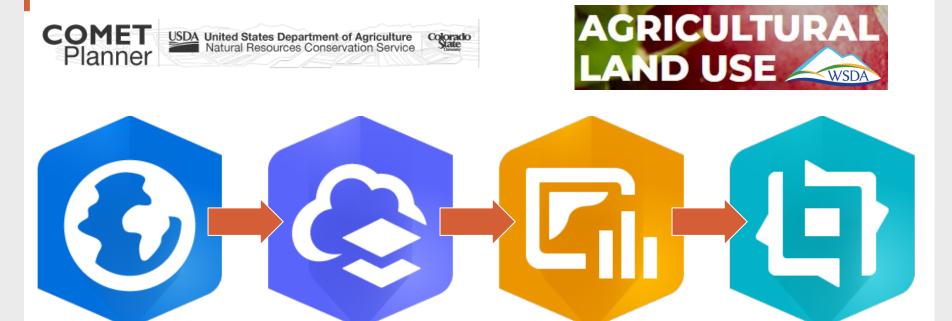






Workflow and Benefits





Benefits: intuitive UIs, very little code, quick to build, easy to deploy

Limitations and Future Work

Required features:

- Numeric input for calculations
- Export reports
- Error bars
- Conditional filters
- Full customization
- Modularization

Spatial R packages:

{sp}, {rgdal},
{leaflet}, {leaflet.esri},
{arcgisbinding}

R Studio





