Appendix II: Data Sources for Spatial Mapping

GENERATING LAND COVER/USE MAP		
Dataset Name	**Source**	**Primary use of the dataset**
National Land Cover Database 2001, 2016 (released May, 2019)	Dept. of Interior/U.S. Geological Survey (USGS)	Supplies land cover data for high-resolution spatial mapping (30 m resolution) for the conterminous U.S.
National Resources Inventory 2002, 2015	USDA Natural Resources Conservation Service (NRCS)	Guides mapping of agricultural lands and provides a check on accuracy of mapping products (obtained county level summaries and sample point location coordinates through confidentiality agreement with NRCS)
Woodland acreage 2002, 2012 and 2017	USDA National Ag Statistics Service (NASS) Census of Agriculture	Guides mapping of woodland by providing woodland acreage data by county
Soil Survey Geographic Database (SSURGO) 2018	USDA NRCS	Guides mapping of agricultural lands
State Soil Geographic Database (STATSGO) 2019	USDA NRCS	Guides mapping of agricultural lands where SSURGO was unavailable
Cropland Data Layer (CDL) 2014 to 2016	USDA NASS	Helps determine suitability for cropland in 2016
National Elevation Dataset 2019	USGS	Guides mapping of agricultural lands
National Hydrography Dataset (High Resolution) 2019	USGS	Identifies water bodies including lakes/reservoirs and wide streams/rivers
Protected Areas Database (PAD-US v2.0) 2018	USGS	Identifies federal lands
BLM National Grazing Allotment polygons 2016	U.S. Bureau of Land Management (BLM)	Identifies grazing on federal lands
USFS Grazing Allotment polygons 2017	U.S. Forest Service Range Management Unit	Identifies grazing on federal lands
Topologically Integrated Geographic Encoding and Referencing (roads) TIGER/Line 2016	U.S. Census Bureau	Provides information for mapping the land cover/use class for "Transportation"
Normalized Difference Vegetation Index (NDVI) 2015	USGS Landsat 8, Copernicus Sentinel-2 satellite imagery	Differentiates areas that are non-productive due to poor soils to improve accuracy of agricultural land mapping
Housing density 2000, 2016	U.S. Census Bureau American Community Survey	Provides estimates of housing density to map low-density residential land use in census blocks
Minimum viable farm size by county 2017	USDA NASS Census of Agriculture 2017	10th percentile farm size for each county used to determine when residential housing density reached a point where it might threaten farm viability in a Census block

MAPPING AGRICULTURAL LAND QUALITY (PVR VALUES)		
Dataset Name	**Source**	**Primary use of the dataset**
SSURGO important farmland designations 2018	USDA NRCS	Assigned values to five important farmland designations (e.g. prime, prime with limitations, unique, statewide important, and statewide important with limitations)
SSURGO Land Capability Classes (LCC) 1961	USDA NRCS	Account for environmental limitations to production
Cropland Data Layer (CDL) 2014-2018	USDA NASS	Assigned values to crop types (fruit and nut trees; fruits and vegetables; staple food crops; feed grains, forages and crops grown for livestock feed and processed foods; non-food crops)
Growing Season length 2006	USDA NRCS Major Land Resource Areas v4.2	Account for regional differences in growing season length
FUT 2016 land cover/use	Farms Under Threat	Assigned values to cropland, pastureland, rangeland, woodland and other land types