SUSTAINABILITY ANALYSIS

2021 PORK CARES SNAPSHOT REPORT

EXECUTIVE SUMMARY

About Illinois Pork **Producers**

The Illinois Pork Producers Association (IPPA) has served producers for more than 50 years. IPPA works to provide producers with opportunities and services that increase profitability and consumer preference for pork. There are currently more than 20 county associations throughout the state with more than 1,600 members.



Illinois Pork Producers. Generations of Commitment.

Quantifying the Impact of **Actual Farm Practices**

platform determines EcoPractices[®] The environmental benefits through its unique process that can pinpoint specific influences of individual agricultural practices. While agricultural practices have progressed to better care for natural resources, the ability to quantify the influence these practices have on sustainability has not kept pace. Illinois Pork seeks to put evidence-based measurements to its farm practices. Having such data brings more depth to decision-making. Short- and long-term goals can be based upon more meaningful information.

CROP	YIELD
Cereal Rye	32 bu/ac
Corn Grain	199 bu/ac
Нау	5.1 T/ac
Horseradish	6 T/ac
Soybean	67 bu/ac
Winter Wheat	84 bu/ac





WE CARE® ETHICAL PRINCIPLES

The We Care initiative was launched in 2008 as a joint effort of the National Pork Board, the National Pork Producers Council (NPPC) and state organizations representing farmers. Through the



We Care initiative, they hope to earn the public's trust by making this industry better for all concerned - animals, farmers, food industry partners and consumers worldwide.

> Food Safety

Σ.

- **Animal Well-Being**
- >
- Environment
- **Public Health** > Our People
- > Our Communities

NATIONAL PORK BOARD'S **ENVIRONMENTAL INITIATIVE** One pillar of the We Care Ethical Principles is



Environment. This includes the use of manure as a valuable resource in a manner that safeguards air and water quality, includes air quality from production facilities to minimize the impact on neighbors and the community, and includes managing operations to protect the quality of natural resources.

- > Air Quality
- > Carbon Footprint
- > Emergency Action Plan
- > Manure & Site Management
- > Feed Management
- > Mortality Management
- > Water Conservation

Conservation Practice	Fields	Acres
Buffer	15	111
Forest	-	265
Grassed Waterway	46	129
Wetland	5	20



Manure produced during pork production has many benefits. Manure provides macro- and micro-nutrients to the crops that are grown. The soils applied receive organic matter which increases carbon storage. In addition, microbial activity is stimulated. Producers prioritize stewardship by properly applying manure to benefit the fields that are applied.



IN-FIELD ENVIRONMENTAL OUTCOMES The data is reflective of weather and soils influence in addition to implemented in-field management practices

OVERALL FARM **Net GHG Emissions** -0,48 T CO₂e/ac **Soil Carbon Sequestered Soil Erosion Rate**

🚺 T C/ac 5 T/ac

EROSION AVERAGE

for the project year.⁺

The USDA National Resources Inventory provides estimates on average erosion for different systems across the US.*







According to the 2017 US Ag Census, the national average is 4% cover crop adoption, 37% no-till adoption and 35% reduced till adoption.

SOIL CONDITIONING INDEX (SCI)

SCI is an NRCS tool that shows soil health trajectory. A positive SCI means a positive trajectory of soil health.

The fields in the project are an overall **trajectory** for SCI.

CROPLAND	
94%	

FORAGE

6%

IN-FIELD PRACTICE COMPARISON IMPACTS

When compared to conventional practices (i.e. conventional tillage, no cover crop scenario), in-field farm practices generated:[‡]

275 fewer tons of CO2e, which is the same as **1,607** average passenger cars off the road for a year 2.245 tons of soil carbon sequestered **6,030** tons of soil saved instead of being lost to erosion, which is the same as dump trucks of soil 2 tons of nitrogen saved instead of being lost through leaching and runoff.

tons of phosphorus saved instead of being lost through runoff.



Powered by **ECOPRACTICES**

Data provided by 10 Illinois pork producers in the United States through a program funded by the Pork Checkoff.

"Sustainable Environmental Consultants, through its EcoPractices platform, estimates an environmental impact value for reducing greenhouse gas emissions, reducing soll erosion, and reducing nutrient loss due to reduced leaching. These estimates adhere to processes that are documented by the NRCS Technical Guides and publications from the EPA. These values are tailored to a specific location and participant's operation. Models used are supported by USDA, NRCS, other government agencies, and major universities. Modeled results include input data from public resources for wetther, solls, and historical crop rotation. Greenhouse gas inventory methods described in Every (GGIT) tool developed by Soil Metrics, LLC (2021) https://soilmetrics.eco. The GGIT tool uniplements the USDA-sanctioned greenhouse gas inventory methods described in Every (JCH1) 'QUAI' (QUAI') 'QUAI') (GICH1) tool, for Entity-Scale Inventory'. The GGIT tool utilizes greenhouse gas modeling technology developed for the COMET-Farm tool, licensed by Colorado State University to Soil Metrics, LLC. *USDA, NRCS 2017 National Resource Inventory

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