



## EXECUTIVE SUMMARY

### About McCarty Family Farms

More than 100 years ago, the McCarty family started and ended every day milking cows by hand in a small barn without electricity in northeast Pennsylvania. Four generations later, there are four dairies comprising McCarty Family Farms, three in Kansas and one in Nebraska. In 2012, the McCartys entered into a unique business partnership with the Dannon Company to directly supply milk to make Dannon yogurts, which allows McCartys to target their farm to meet the specific needs of a customer. This executive summary is a consolidation of findings for all four farm locations.

### Quantifying the Impact of Actual Farm Practices

The benefits were determined through EcoPractices' unique process that is able to pinpoint the influence of specific 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. The McCarty family 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.



EcoPRACTICES®



**75% fewer milk hauling trucks** due to removal of water

### MCCARTY FAMILY FARMS MILK PROCESSING INPUTS AND OUTPUTS



#### Annual production stats:



Approximately **28.5 million gallons** of raw milk was processed from the four McCarty dairy farms.



Raw milk from the Rexford dairy is piped 100 feet from the milking parlor to the plant. For the three additional McCarty dairies, raw milk is trucked to the Rexford plant for processing.

Three end products from processing annually:



**2.19 million gallons of condensed cream** which is trucked to a plant and made into sour cream



**7.3 million gallons of condensed skim milk** which is trucked to the Dannon yogurt plant in Ft. Worth, TX



**16.4 million gallons of water for reuse** on the Rexford farm, including: drinking water for the cattle, cooling cattle in the summer months, cleaning of buildings and equipment and irrigating crops.

### ENVIRONMENTAL BENEFITS FROM WATER RECLAMATION



During 2016, McCarty Family Farms reclaimed:



**118.6 million gallons of water** enabling the family to reuse it again and again.



This is the amount of water in almost **1.2 million average-sized bathtubs filled to the brim.**



This equates to **325,000 gallons every day.**



The farm's water conservation efforts **saved 324.9 million gallons of Ogallala Aquifer** ground water, which equates to **492 Olympic-sized swimming pools.**



**26 bird boxes** protect susceptible species



**25 acres of native plants** for biodiversity and pollinators

## ENVIRONMENTAL BENEFITS FROM SOIL PRACTICES

Because of the soil practices at all four McCarty Family's Farms as well as neighboring fields that received manure fertilizer and/or sourced feed to the dairies during 2016, totaling almost 4,275 acres, significant environmental benefits resulted.



**686 tons reduction of carbon dioxide equivalent**

which is the same as



**166 fewer passenger cars** on the road each year



or almost **413 tons of coal** not burned



**7,064 tons of soil saved instead of being lost to erosion**

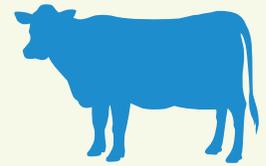
which is the same as



**440 dump trucks** of soil



**16,324 pounds of nitrogen fertilizer saved** from runoff into **waterways**.



## BENEFITS FROM ANIMAL CARE

The McCarty dairy herd produces about **35% more milk than the average dairy cow** in the U.S.

**7,900 Dairy cows** in production

**9.7 gallons of milk produced per cow** per day

## CARBON DIOXIDE REDUCTION BENEFITS

During 2016, everyday operations at all four McCarty's Family Farms:



**reduced its carbon dioxide output by 3,665 tons**

which is equivalent to



**703 average passenger cars** off the road for a year



or **Average yearly energy use by 352 American homes**



or CO<sub>2</sub> sequestration of **3,220 average acres of US forest** in a year



or almost **18 rail cars of coal saved** from being burned

## FARM LOCATIONS



**ECO PRACTICES**<sup>®</sup>  
Recognizing Responsibility

**An Evaluation of Actual Performance by**

EcoPractices.com

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