Supplementary Information:

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- Phosphorus in Ontario's economic sectors: mapping flows and assessing recovery and recycling potential
- 4 Université Laval team^{a,*}, McGill University team^b, University of Waterloo team^c
- ${}^aUniversit\'e Laval$ ${}^bMcGill\ University$ ${}^cUniversity\ of\ Waterloo$
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9 1 Distribution of CAFOs size in regions of the the Great Lakes area

1. Distribution of CAFOs size in regions of the the Great Lakes area

The size distribution of Ontario's CAFOs is not reported by public databases, but the number of animals is aggregated at Census Division level REF, REF. As an approximation, the size distribution of CAFOs of other regions in the vicinity of the Great Lakes area reporting the size of CAFOs is calculated and extrapolated to the province of Ontario. The size distribution of CAFOs is determined for the US states of Ohio REF, Pennsylvania REF, Indiana REF, Michigan REF, and Wisconsin REF. The distribution of CAFOs size has been fit to a truncated normal distribution REF INCLUDE EQUATION, since the possible size of livestock facilities is bounded between 300 animal units for being considered as an intensive livestock production facility REF, and 10,000 animal units in order to remove extra-large CAFOs that are outliers in the size distribution, avoiding excessive long tails distorting the distributions. Figure 1 represent the distribution of CAFOs using the kernel density estimation (KDE) REF, and the fitting parameters for the truncated normal distribution for each evaluated region.

 $Email\ address:\ {\tt edgar.martin-hernandez.1@ulaval.ca}\ ({\tt Universit\'e}\ {\tt Laval}\ {\tt team})$

^{*}Corresponding author

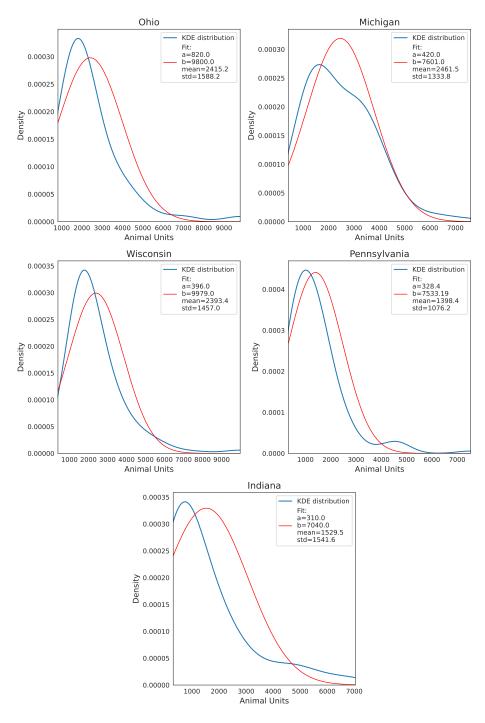


Figure 1: Distribution of CAFOs size in regions of the the Great Lakes area.

23 References