Swine Disease Reporting System

What is the SDRS?

SHIC-funded, veterinary diagnostic laboratories (VDLs) collaborative project, with goal to aggregate swine diagnostic data from participating VDLs, and report in an intuitive format (monthly report and web dashboards), describing dynamics of disease detection by pathogen or disease syndrome over time, specimen, age group, and geographical space.

For this report, data is from the Iowa State University VDL and South Dakota State University ADRDL, University of Minnesota VDL and Kansas State University VDL. Specifically, for PRRSV RFLP data, and syndromic information the results are from the ISU-VDL.

For all “2019 predictive graphs,” the expected value was calculated using a statistical model that considers the results from three previous years. The intent of the model is not to compare the recent data (2019) to individual weeks of previous years. The intent is to estimate expected levels of percent positive cases based on patterns observed in the past data, and define if observed percentage positive values are above or below the expected based on historic trends.

Collaborators:

**Iowa State University**: Giovani Trevisan*, Edison Magalhães, Leticia Linhares, Bret Crim; Poonam Dubey, Kent Schwartz, Eric Burrough; Rodger Main, Daniel Linhares**.

**University of Minnesota**: Mary Thurn, Paulo Lages, Cesar Corzo, Jerry Torrison.

**Kansas State University**: Rob McGaughey, Jamie Henningson, Eric Herrman, Gregg Hanzlicek, Ram Raghavan, Douglas Marthaler.

**South Dakota State University**: Shivali Gupta, Jon Greseth, Travis Clement, Jane C. Hennings.

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** Daniel Linhares: Principal investigator. E-mail: linhares@iastate.edu.

Advisory Council:

The advisory group reviews the data to discuss it and provide their comments to try to give the data some context and thoughts about its interpretation: Clayton Johnson, Emily Byers, Mark Schwartz, Paul Sundberg, Paul Yeske, Rebecca Robbins, Tara Donovan, Deborah Murray, Scott Dee, Melissa Hensch.

This report is an abbreviated version of the dashboards that are available online.

To access the full data and hear the podcast for the reports, use your computer, tablet, or phone and go to: https://fieldepi.research.cvm.iastate.edu/swine-disease-reporting-system/

and explore the dashboard corresponding to each pathogen or syndrome.

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SDRS Advisory Council highlights:
- Level of detection of MHP DNA was within the expected value for June.

NOTE: The ISU-VDL team is making improvements in the way it records and reports diagnostic codes. To ensure data consistency in the SDRS reports, the syndromic pages (enteric, respiratory, and CNS disease) will be unavailable in the Report # 17. The online dashboards will be updated once the new system is in place, which is expected for July 2019.