

## Request for PRRSV positive sow and nursery farms for rapid assessment of transmission and control of a new and rapidly spreading PRRSV variant, 1C.5.32

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### Background

Porcine Reproductive and Respiratory Syndrome Virus (PRRSV) continues to evolve, with new genetic variants frequently emerging. In late 2024, a novel PRRSV-2 variant, denoted as 1C.5.32, began spreading rapidly in the Midwest. PRRSV 1C.5.32 now accounts for more than 20% of all PRRSV-2 wild-type sequences submitted by swine veterinarians to the UMN Veterinary Diagnostic Lab.

### New study

This study aims to evaluate the new variant's virulence in comparison to other known variants' virulence to advance the industry's ability to target control efforts and select appropriate immune-based interventions.

### Eligibility/Inclusion criteria

#### Required:

- Sow and associated nursery farms within ~4 hours of UMN Twin Cities campus
- Recent PRRSV-2 outbreak of any of the following three PRRSV variants:
  - 1C.5.32, or 1H.18, or 1A.2
- Willingness to share production records, especially related to mortality, morbidity, vaccination history, and interventions from ~5 months prior to outbreak onset through ~5 months post-outbreak
- Willingness to allow collection of pig samples (i.e., serum and oral fluids), either by farm veterinarian or UMN research team

#### Ideal, but not required:

- Ability to follow pigs into the growing period to assess nursery impact
- Nursery is ideally single source and managed all in/all out

#### Ineligibility / Exclusion criteria:

- Farms known to currently have multiple wild-type PRRSV variants co-circulating

### Benefits of participation

Contribute to local, industry-wide knowledge of PRRSV-2 variant impact, receive diagnostic insights into herd-level co-infections, and help strengthen tools for early detection, monitoring, and response. Additionally, your on-farm veterinarian's time may be compensated for their time in sample collection.

Please contact Kim VanderWaal ([kvw@umn.edu](mailto:kvw@umn.edu)) if you have any questions about eligibility or support, and if you are interested in contributing to this project.