PART®

PIPESTONE ANTIBIOTIC RESISTANCE TRACKER

Tracking Antibiotic Resistance

+

Demonstrating Responsible Antibiotic Use

www.PipestonePART.com

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WHO IS PIPESTONE®

PART®
PIPESTONE ANTIBIOTIC RESISTANCE TRACKER

- 40 Veterinarians
- 6 Veterinary Clinics
- Pig/farmer owner focused
- Veterinary Service & Farm Management
- 75 Sow farms/250,000 sows
- 1,200+ employees
- 1,000+ U.S. farmer customers
- North America, Asia and Latin America presence

History & Objectives

- Launched Jan 1, 2017
- Interactive, web-based tool
- Works to track resistance over time
- Demonstrates responsible use
- Tracks and benchmarks antibiotic use by farm
- Platform to inform the conversation on antibiotic resistance and antibiotic use
- Pipestone funded
- Research Activities
- Outreach Activities

Current Statistics

- Participants: 154 producers
- Weaned pigs: 5+ million
- Market Hogs: 3+ million
- 800 Sites
- 24 Veterinarians working with PART clients
- 270 Veterinary Visits and 1,078 Quarterly Reviews

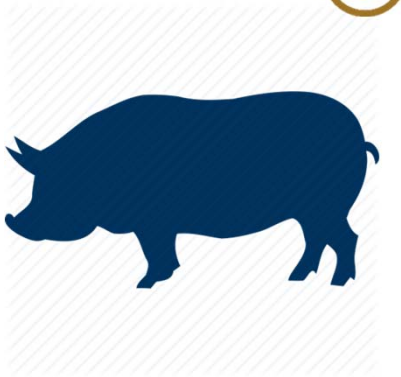
PART® ONE®
PIPESTONE ANTIBIOTIC RESISTANCE TRACKER

Antibiotic Resistance Tracking: Current Focus

Human Health

Food Safety

Livestock Farms



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Veterinary-Based

Antimicrobial	E.COHL	S.SC1
	*Int/MIC	*Int/MIC
Ampicillin	S / 4.0000	S / 1.0000
Ceftiofur	S / 0.5000	S / 1.0000
Chlortetracycline	R / >8.0000	S / 1.0000
Clindamycin	R / >16.0000	R / >16.0000
Danofloxacin	NI / <=0.1200	NI / <=0.1200
Enrofloxacin	S / <=0.1200	S / <=0.1200
Florfenicol	S / 2.0000	I / 4.0000
Gentamicin	S / <=1.0000	S / <=1.0000
Neomycin	S / <=4.0000	S / <=4.0000
Oxytetracycline	R / >8.0000	S / 1.0000
Penicillin	R / >8.0000	R / 8.0000

Samples Collected and Sent to Diagnostic lab

Diagnostic lab testing confirms infection and what medications work best to treat

Veterinarian selects proper treatment

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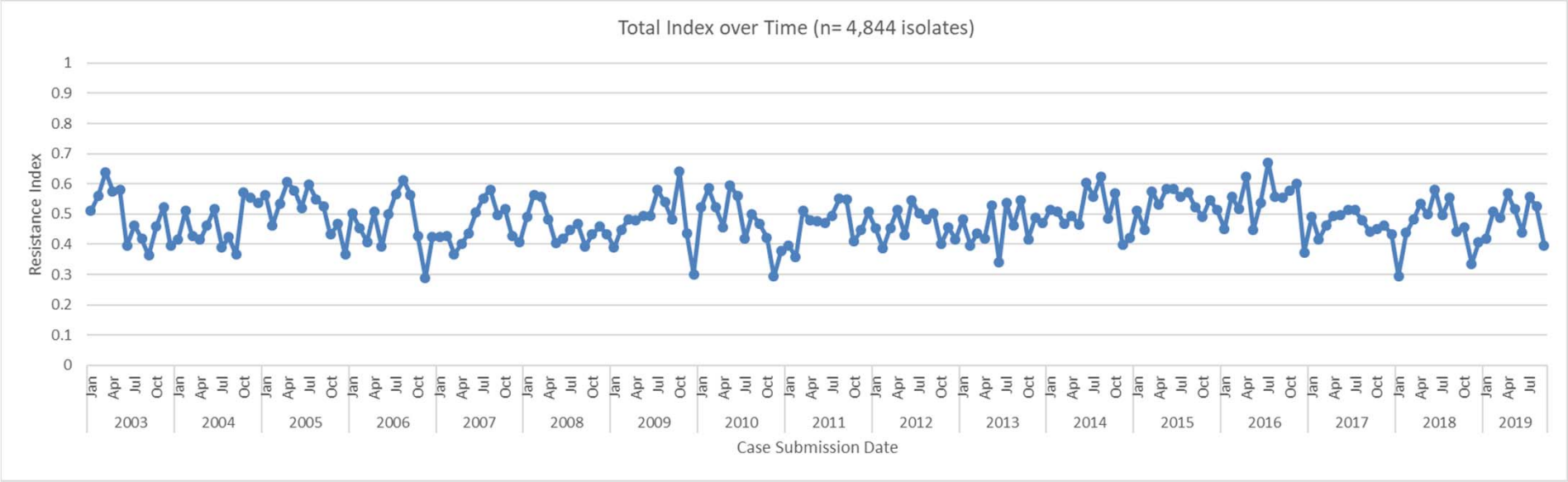
VDL Summary: Tracking resistance over time



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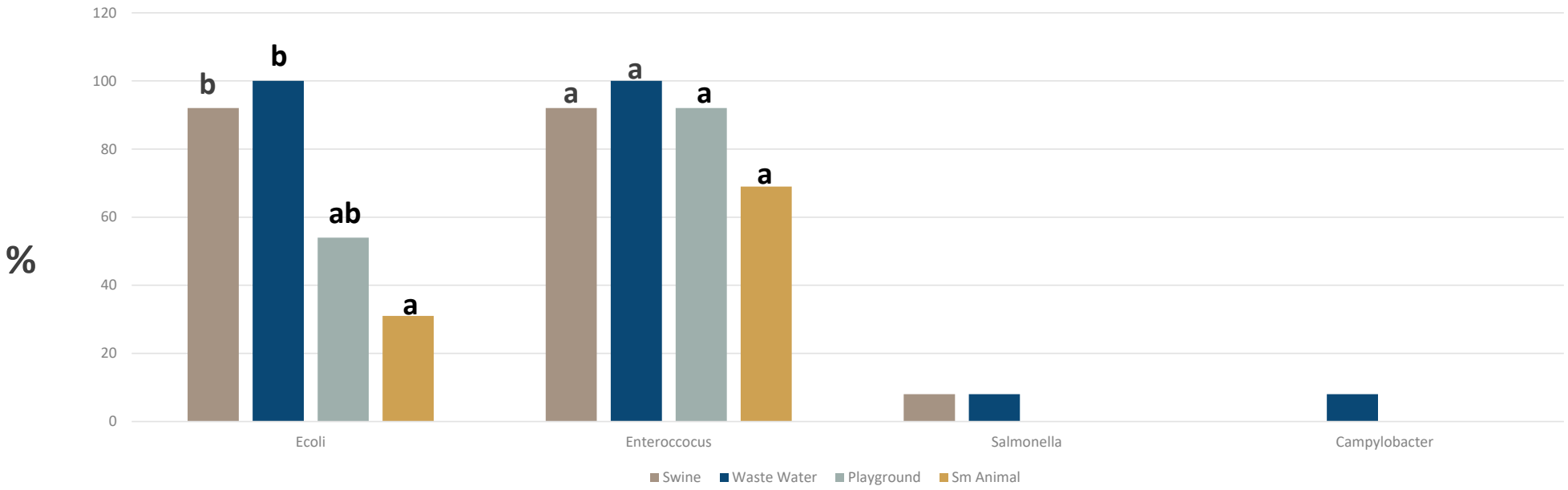
Food safety-based:

“Evaluation of AMR patterns of NARMS organisms across alternative sites”.

Recovery by Month and Site



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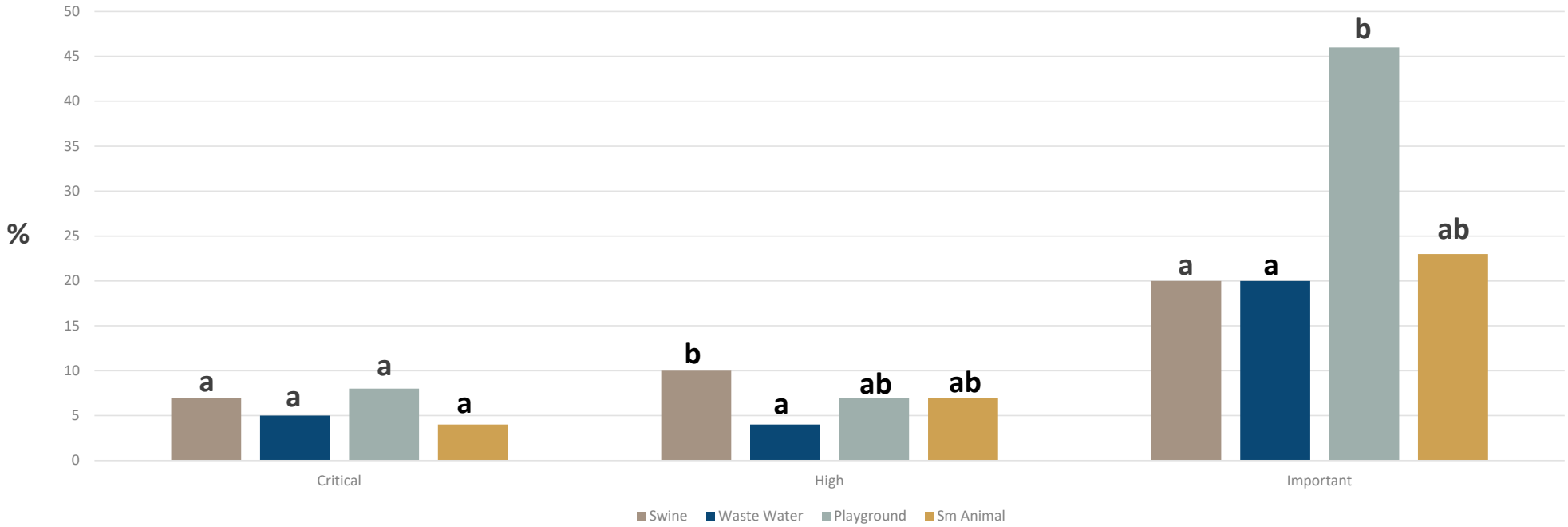
AMR Patterns by Class of Drug* and Site



* = Based on FDA list of medically important drugs

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Phenotypic evaluation of the impact of antibiotic use protocols on antimicrobial resistance patterns in PRRS virus infected swine in a naïve environment.

CARISSA ODLAND, DVM, MS-CANDIDATE

OCTOBER 12, 2018

pork checkoff

UNIVERSITY OF MINNESOTA
College of Veterinary Medicine

PIPESTONE
VETERINARY SERVICES

DOING OUR PART FOR THE REPONSIBLE USE OF ANTIBIOTICS:

RECORD, REVIEW, and RESPOND

RECORD

REVIEW

RESPOND

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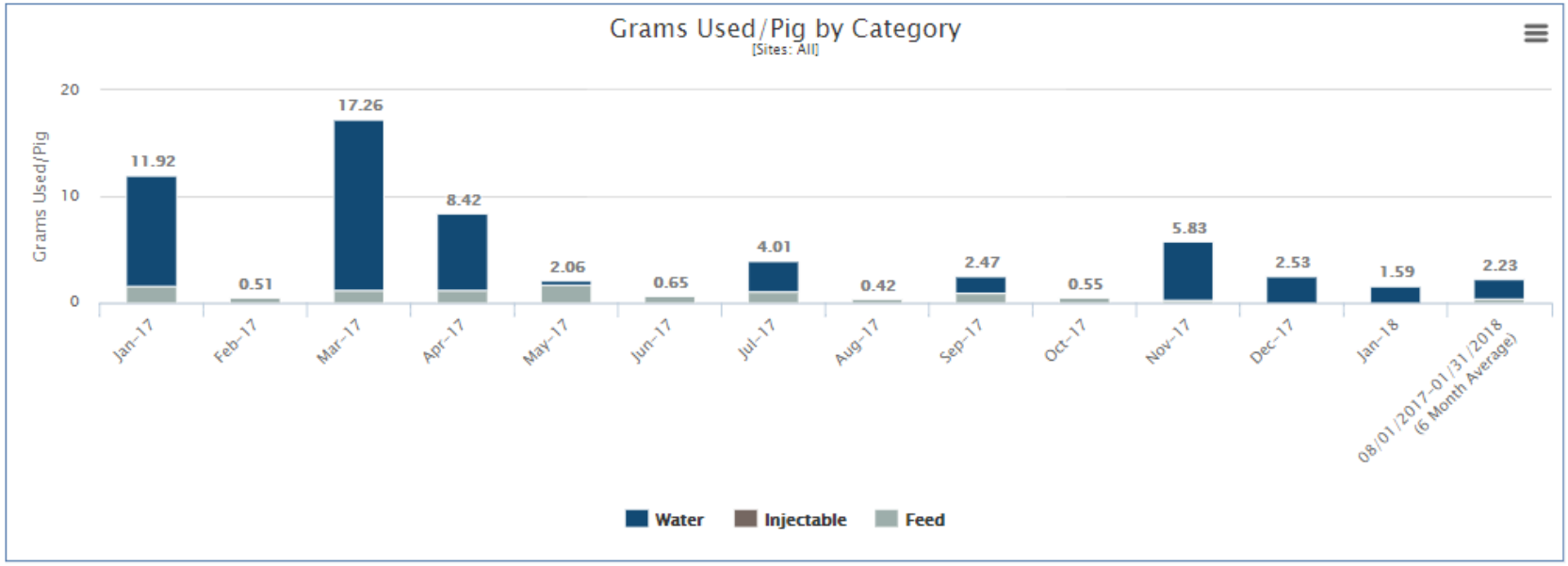
Producer Example

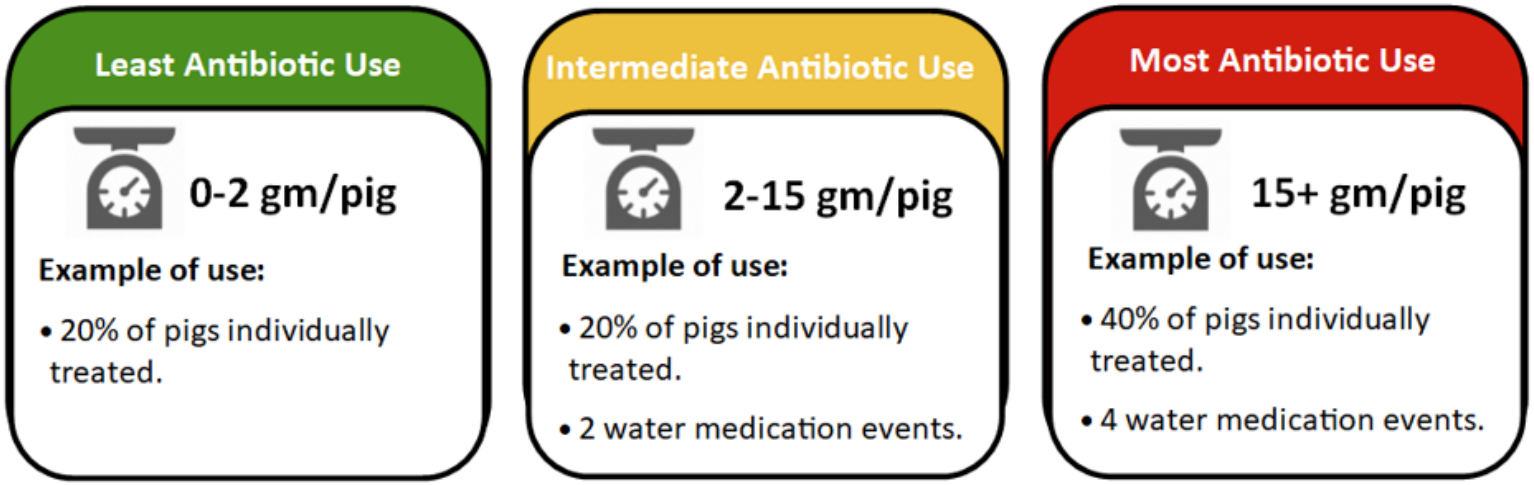
On your graphs, you can filter your results further by clicking antibiotic types in the legend to turn them off or on.

Antibiotic Use [+/-]

Site: -All- Style: Month Start date: Jan 2017 End date: Jan 2018 Refresh



Least, Intermediate, and Most



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Collaboration & Outreach

- Sanford Hospital
- McDonalds
- MN One Health
- USDA
- NARMS
- PACCARB
- University of Minnesota
- South Dakota State University
- National Pork Board
- MN Pork Producers Association
- National Pork Producers Council
- National Institute of Animal Agriculture
- Graduate Education (UMN)
- Producer Webinar Series
- International Consortium on Antibiotic Stewardship in Agriculture (ICASA)

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