

U.S. Swine Survey Insights



*Tactical Plan: Gain Empirical Insights on
Producer Decision-Making*

**Glynn T. Tonsor, Dept. of Ag. Economics
Kansas State University**

Email: gtonsor@ksu.edu Twitter: [@TonsorGlynn](https://twitter.com/TonsorGlynn)

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Situation Summary

- Better alignment of public & private disease efforts needed
- Role of gov't policies mainly conceptual in current literature

❖ GAPS:

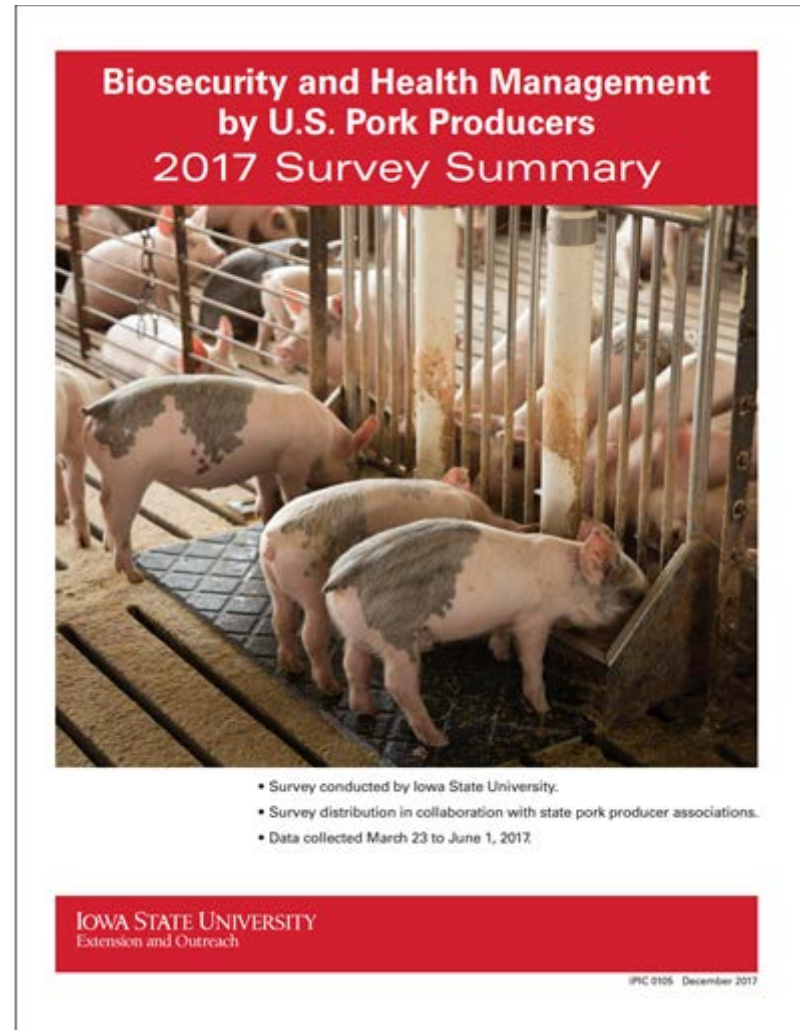
1. Empirical assessment of producer biosecurity decision-making
2. Examine how producer expectations impact effort

Empirical Methods

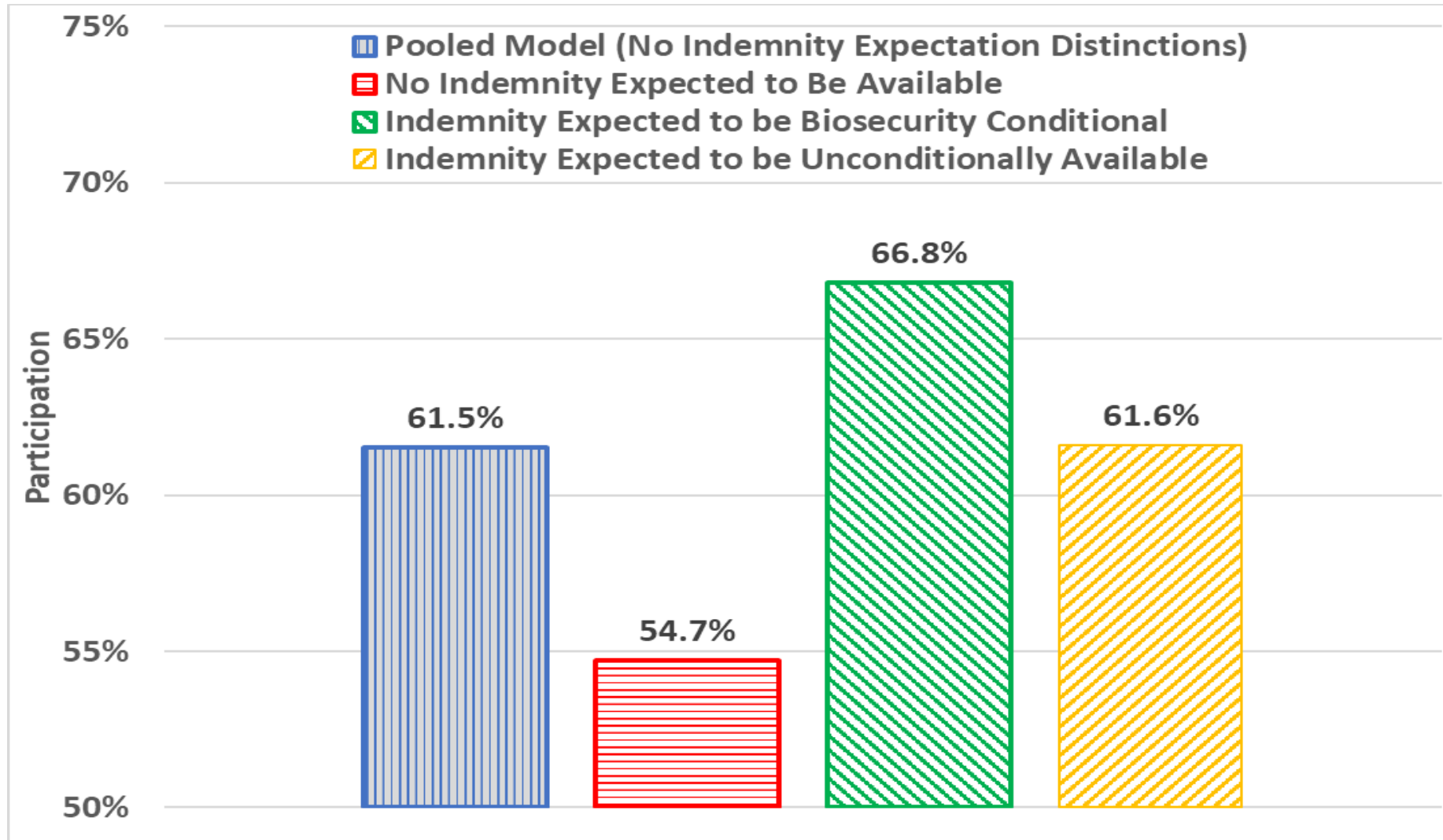


- U.S. survey of swine (hog) producers in March-April 2017

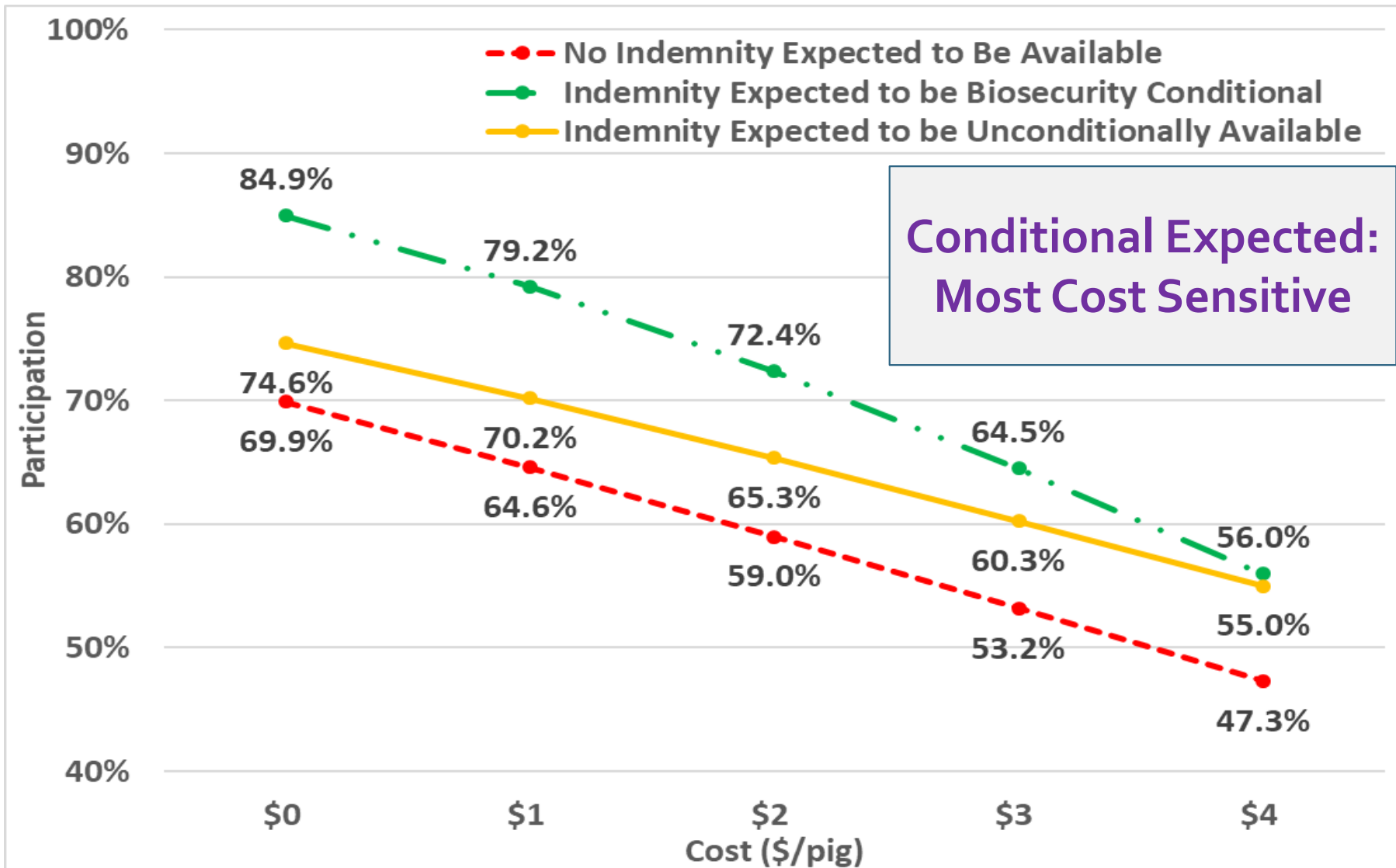
<https://store.extension.iastate.edu/product/Biosecurity-and-Health-Management-by-US-Pork-Producers-2017-Survey-Summary>



Experimental Findings: Mean Biosecurity Adoption Rates



Experimental Findings: Cost Sensitivity



Conditional Expected:
Most Cost Sensitive

Take-Home Points!




- ✓ *Clear, biosecurity-conditional indemnity policies hold social value!*
- ✓ *Producers are more responsive to cost than risk reductions!*
- ✓ *Private market signals can also increase producer effort!*

Many other estimates of interest...



**Biosecurity and Health Management
by U.S. Pork Producers
2017 Survey Summary**



- Survey conducted by Iowa State University.
- Survey distribution in collaboration with state pork producer associations.
- Data collected March 23 to June 1, 2017.

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Extension and Outreach

IPIC 0106 December 2017

Many other estimates of interest...



How many times in the next 100 years do you think a Tier 1 disease outbreak will occur in the U.S. swine industry?

	Number reporting	Percent reporting
0 times	27	9.1%
1 time	70	23.5%
2 times	78	26.2%
3 times	44	14.8%
4 times	23	7.7%
5 times	26	8.7%
6 or more times	30	10.1%
Total	298	100.0%

If a Tier 1 disease outbreak occurred on your operation, how long (number of months) do you think losses would persist?

	Number reporting	Percent reporting
Under 1 month	10	3.4%
1 to 2 months	14	4.8%
3 to 4 months	29	9.9%
5 to 6 months	78	26.6%
7 to 8 months	20	6.8%
9 to 10 months	19	6.5%
11 to 12 months	55	18.8%
13 months or longer	68	23.2%
Total	293	100.0%



More information available at:



This presentation will be available in PDF format at:

<http://www.agmanager.info/about/contributors/individual/tonsor.asp>

Glynn T. Tonsor

Professor, Dept. of Agricultural Economics, Kansas State University

Email: gtonsor@ksu.edu Twitter: @TonsorGlynn



Behavioral approaches to reducing the impact of livestock pests or disease outbreaks



United States
Department of
Agriculture

National Institute
of Food and
Agriculture

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