

Financial impact of disease on pig production.

Part II. Respiratory diseases

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SUMMARY

Costs caused by respiratory diseases can vary considerably depending on the severity of disease.

Infections with *Actinobacillus pleuropneumoniae* can in severe cases lead to losses estimated to 650 € per sow per year while costs are considerably lower, 46 € per sow per year, for herds with a subclinical disease manifestation.

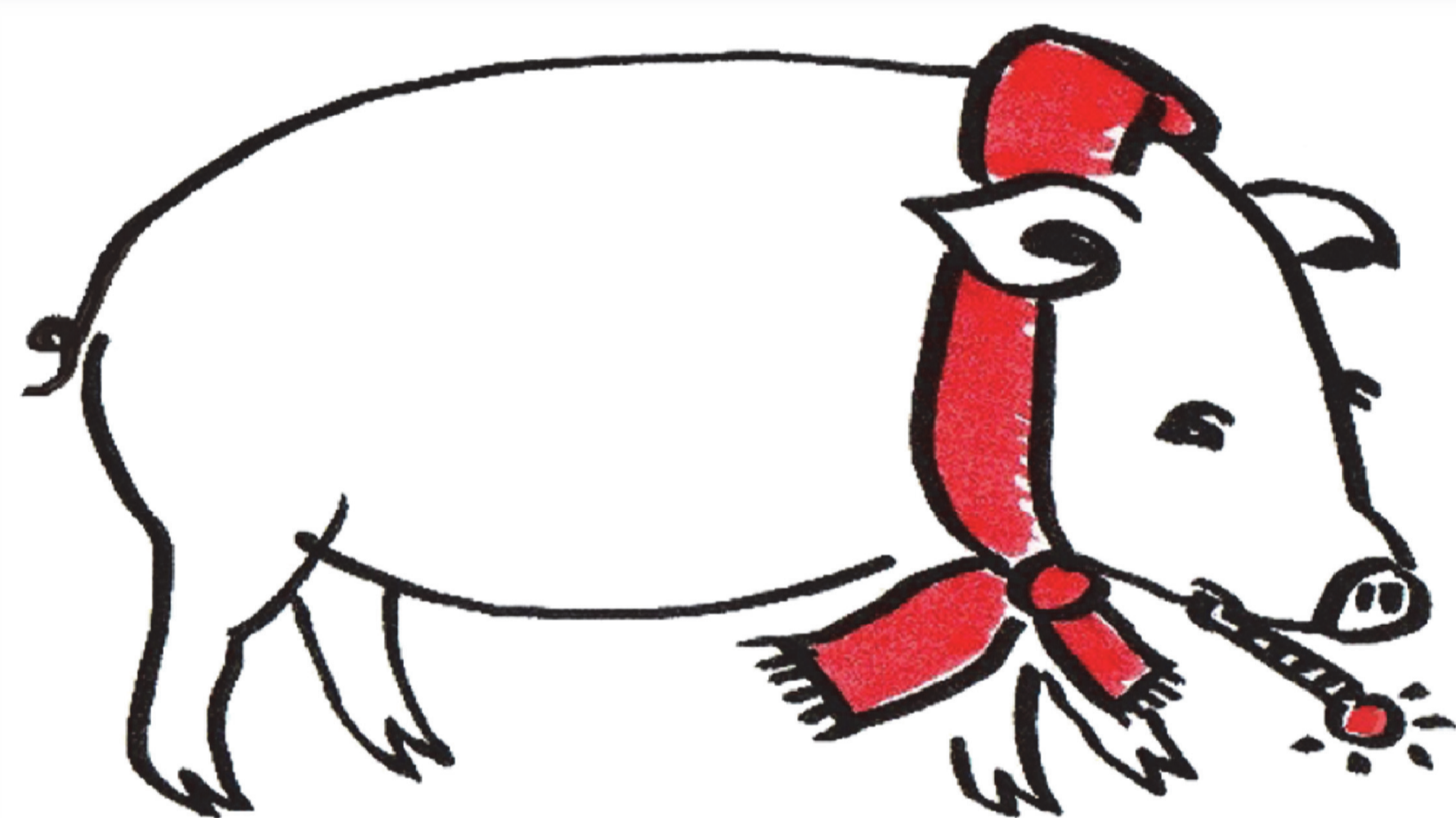
Costs for endemic subclinical infections were calculated to 29 € per sow per year for enzootic pneumonia and 77 € per sow per year for swine influenza.

This implies that there is room for improving health and as a consequence, animal welfare and income.

BACKGROUND

Diseases cause ill-thrift in pigs, and contribute to economical losses due to decreased productivity. The cost for diseases within the Swedish pig production were estimated by using production data from 2010 and market prices from week 38 of that year.

This part focused on expenses for respiratory diseases. Actinobacillosis (APP), enzootic pneumonia (EP) and swine influenza (SI) were identified as the major pathogens.



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METHODS

Costs for respiratory diseases were estimated for herds affected by different respiratory disease complexes and different levels of severity of disease.

Standard production costs per day were estimated to 0.33 €, 0.67 € and 0.89 € for weaners, fatteners and sows, respectively. Mortality costs were defined as 40 € per suckling piglet, 43 € per weaner, 84 € per fattener and 447 € per sow. Mortality, reduction in growth rate, condemnations at slaughter (0.3 €/kg) and carcass trimming (0.8 €/pig) were used to calculate costs associated with respiratory disease.

RESULTS

Table 1. Annual losses related to respiratory disease shown per sow with a mean production of 22 pigs per year

Production parameters	Disease complex							
	APP Acute		APP Endemic		EP Endemic		SI Endemic	
Prolonged rearing time	10 days	132 €	3 days	43 €	2 days	29 €	4 days	58 €
Slaughter registrations	50%	8 €	11%	2 €	4%	-	0%	-
Carcass condemnations	15%	327 €	<1%	1 €	<1%	-	0%	-
Mortality	10%	184 €	-	-	-	-	1%	19 €
Cost per sow	650 €		46 €		29 €		77 €	

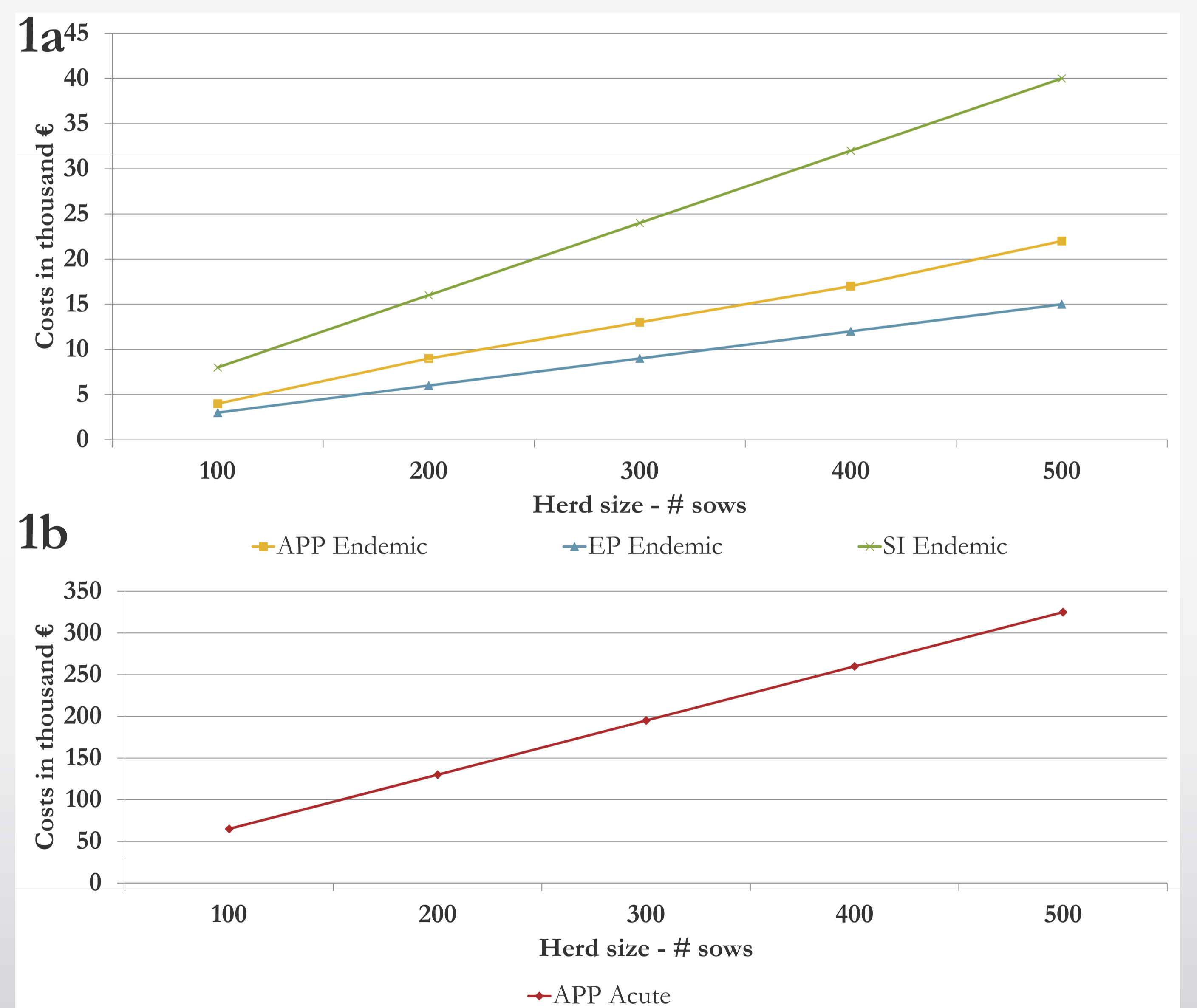


Figure 1. Annual losses related to endemic respiratory diseases (1a) and costs associated with acute actinobacillosis (1b) depending on herd size. Costs are expressed in thousands of €.



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