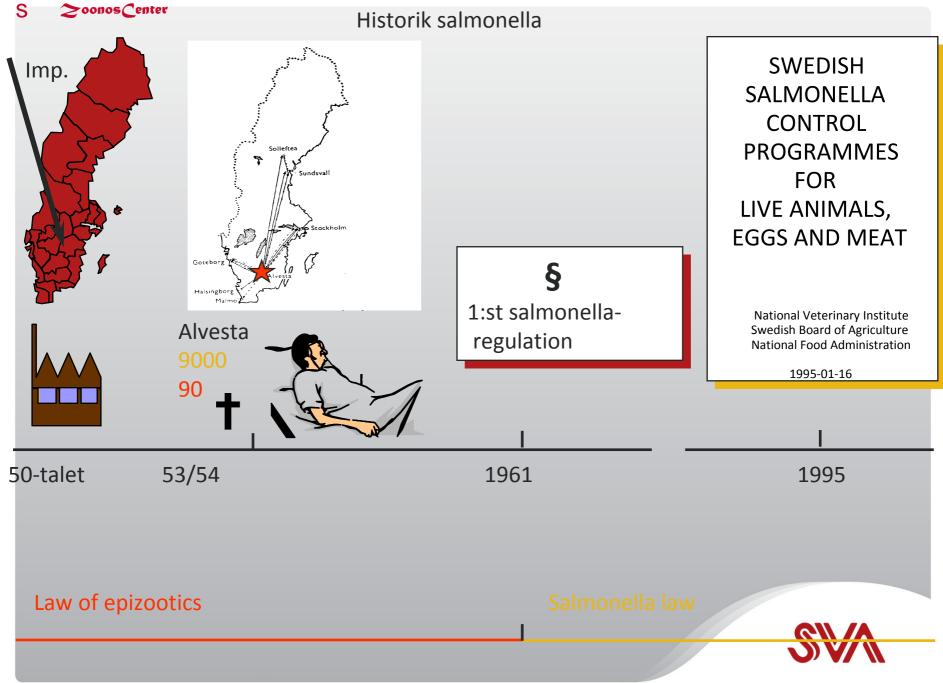
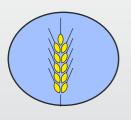
## Salmonella control in pig production in Sweden

Helene Wahlström, Zoonosiscenter, SVA













- •All serotypes are notifiable
- •Action always taken to eliminate Salmonella infection/contamination



### Salmonella **Strategy Import** control Feed control Control in herds Control in slaughter houses Control in Control of food cutting plants **SLV**

## Number of notified salmonella infected pig herds 1968-2004

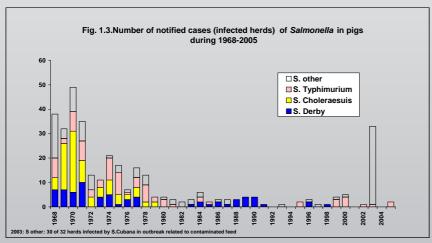






Fig. 1.3. Incidence of pig herds infected with Salmonella during 1968-2008

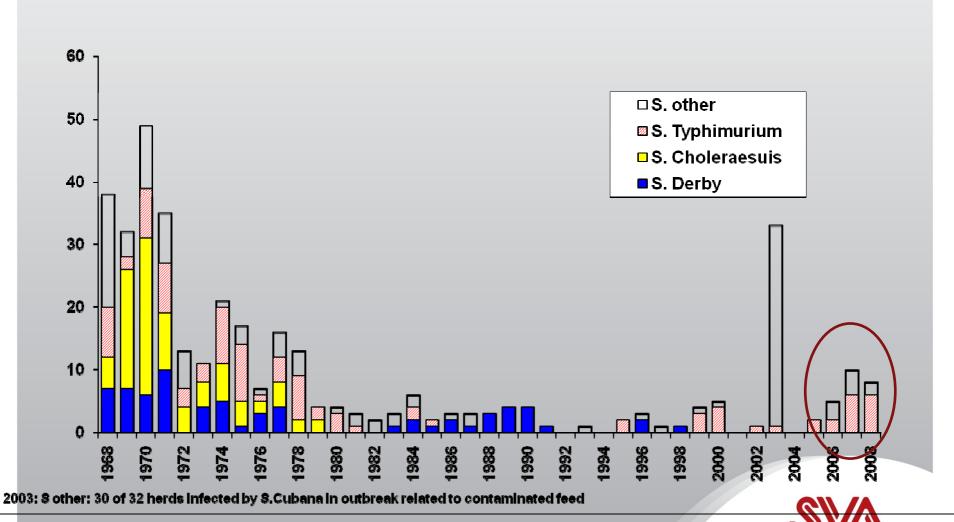
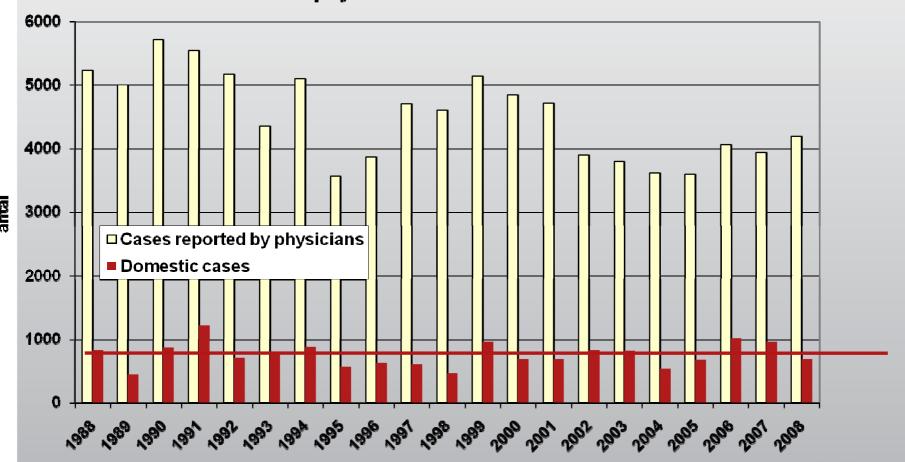


Figure 1.5. Number of cases of Salmonella in humans reported by physicians 1988 -2008





#### **Problems:**

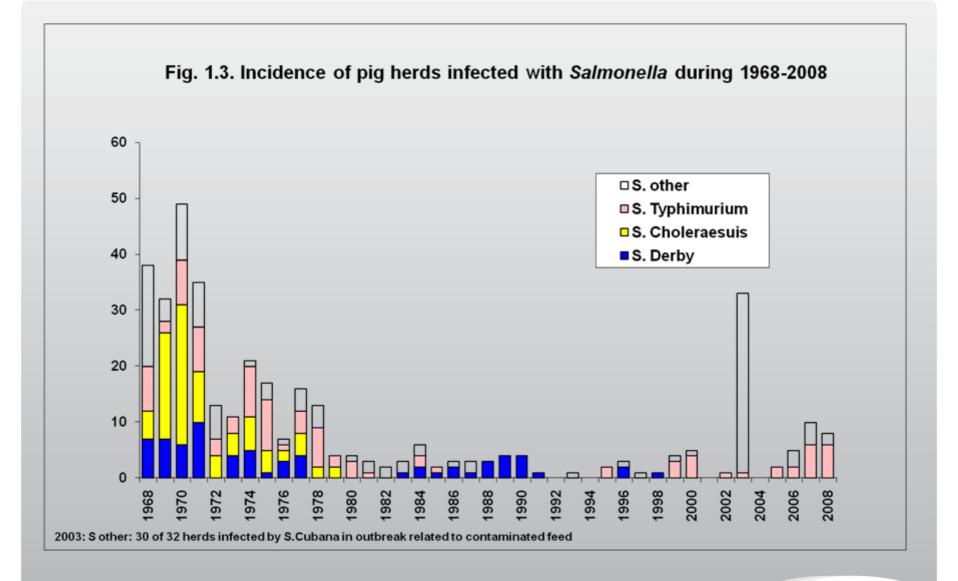
- Very large herds with a high turnover rate
- Herds with only 1 or 2 positive animals



#### **Highlight importance of:**

- •feed control (HACCP)-prevent efficient spread
- •feed control raw materials-detect source
- •immediate action-prevent spread and contamination environment
- •Salmonella free top of breeding pyramide- prevent efficient spread







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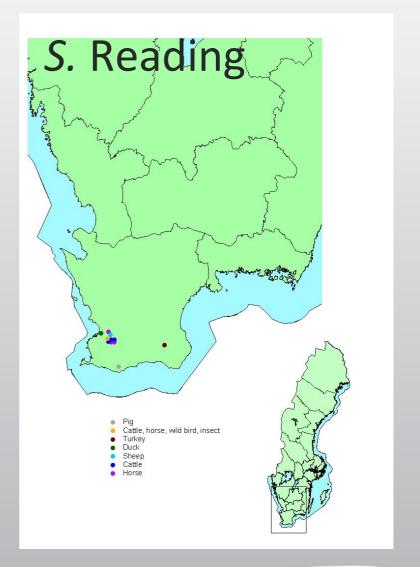
#### S. Typhimurium DT126

Sept



Nov





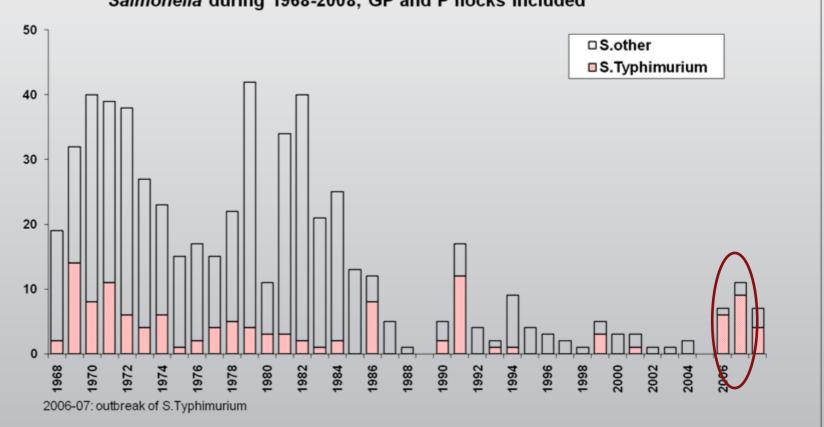


#### **Highlight importance of:**

- •feed control (HACCP)-prevent efficient spread
- •feed control raw materials-detect source
- •immediate action-prevent spread and contamination environment
- Salmonella free top of breeding pyramide- prevent efficient spread



Fig. 1.1 Incidence of broiler flocks infected with Salmonella during 1968-2008, GP and P flocks included





# Could serology be used as a complement in the Swedish *Salmonella* control programme in pigs?



•At present the ELISA is not sufficiently evaluated for use in *low* prevalence countries

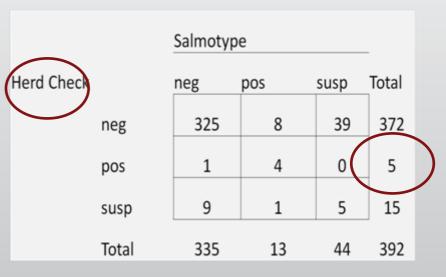
(The EFSA journal (2006), 341, 1-131)



#### **VETSIGN TM** Total neg pos susp Salmotype 326 0 9 335 neg Pos 10 13 2 39 1 4 susp 44 Total 375 3 14 392

om o märk ut de officiellt rapporterade proven

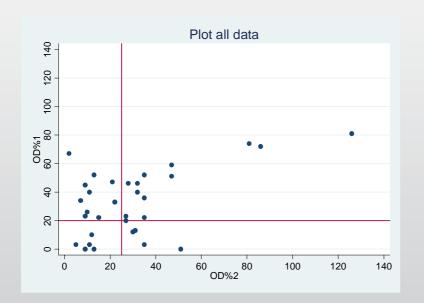
	Herd Check					
VETSIGN TM		neg	pos	susp	Total	
	neg	361	3	11	375	
	pos	1	2	0	3	
	susp	10	0	4	14	
	Total	372	5	15	392	

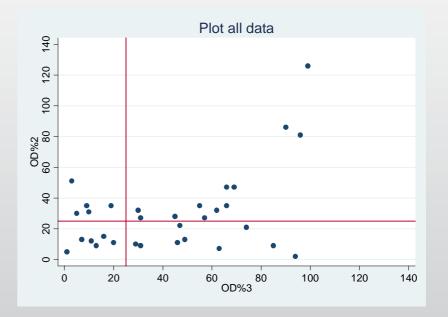


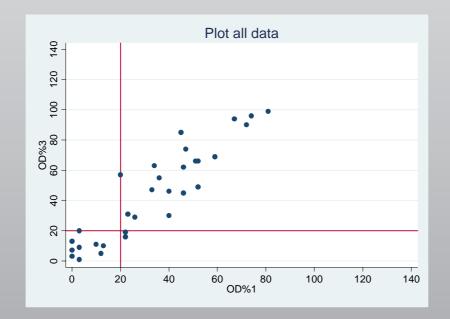




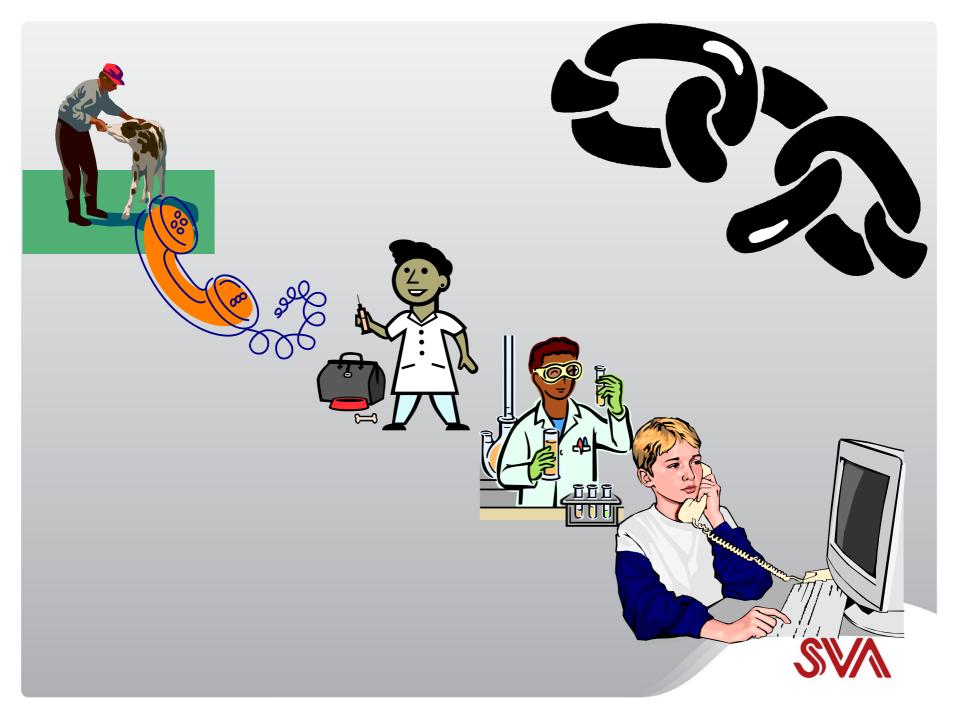
### Salmonella **Strategy Import** control Feed control Control in herds Control in slaughter houses Control in Control of food cutting plants **SLV**











- •At present the ELISA is not sufficiently evaluated for use in *low prevalence countries*
- •In low prevalence countries..major infection incidents may occur...immunology will have the drawback of *not identifying such changes rapidly*
- •Immunological assessment was reliable mainly at herd level and was especially well suited for identifying *high-prevalence herds*
- •..bacteriological and immunological results will often not *correspond* at either herd or individual level..

(The EFSA journal (2006), 341, 1-131)

