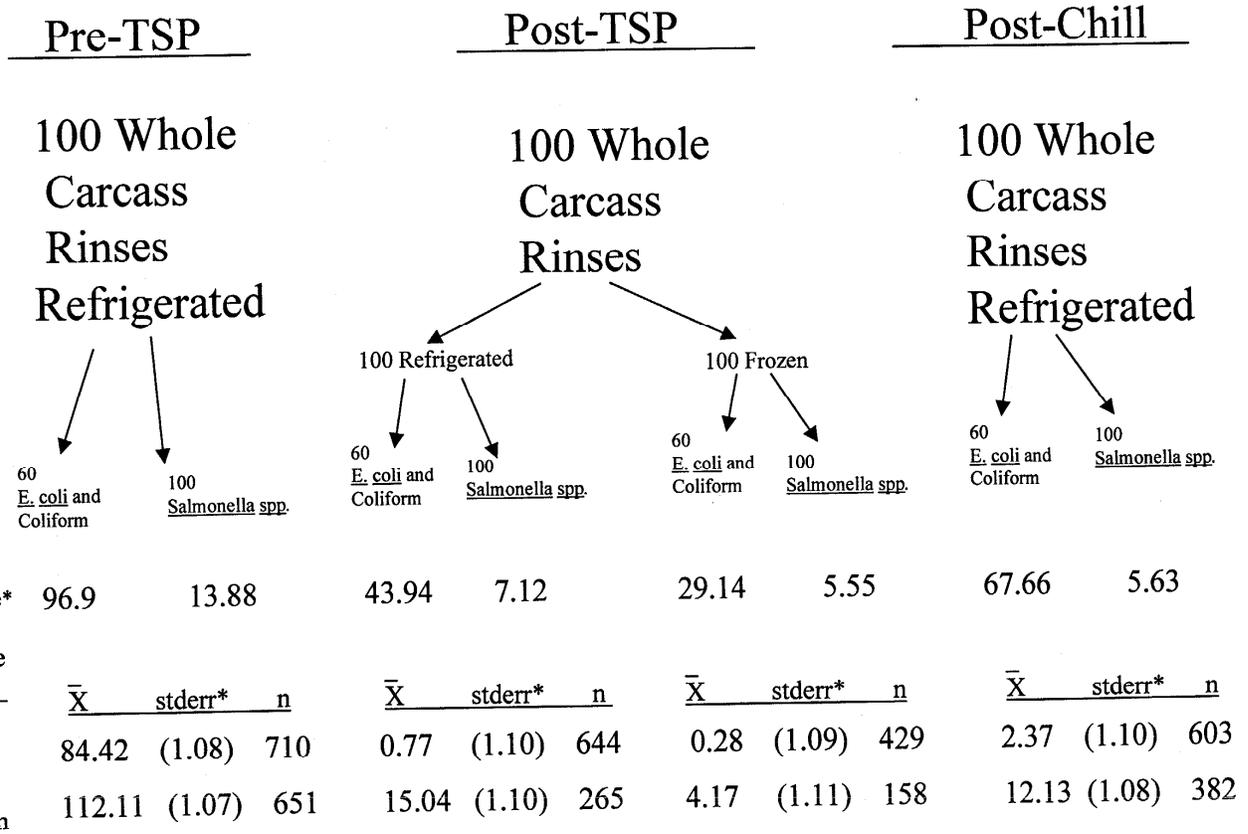


Summary Stage II

- The incidence of Salmonella spp was lower after TSP application on visibly contaminated carcasses than on visibly non-contaminated carcasses before any washes or on contaminated carcasses after conventional reprocessing.
- The incidence and number of E. coli was lower after TSP application on visibly contaminated carcasses than on visibly non-contaminated carcasses before any washes or on contaminated carcasses after conventional reprocessing.
- Post TSP microbial data show lower E. coli counts and lower incidence of E. coli and Salmonella spp in frozen samples than refrigerated samples.
- Levels of 1/2% Salmonella spp and 1% E. coli Post TSP application are not reasonable from the data provided by these five Plants, (1840 Salmonella spp samples, and 1320 E. coli samples).

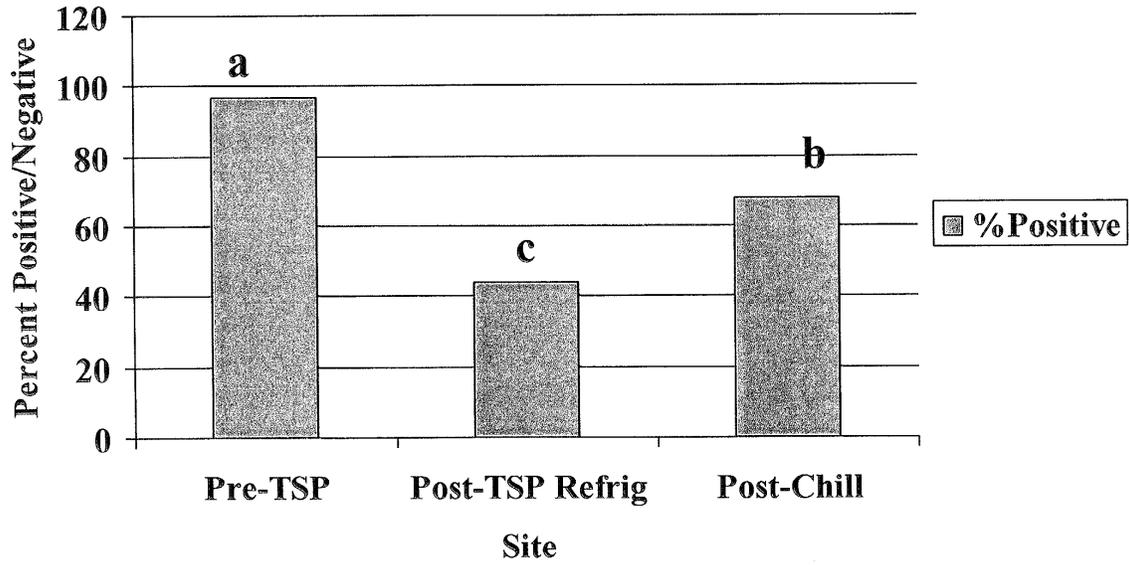
Figure 1. A schematic of the sampling plan and sample treatment for Stage I.



* Percent Positive for E. coli and Salmonella spp.; All procedures were standard Mega Reg protocols

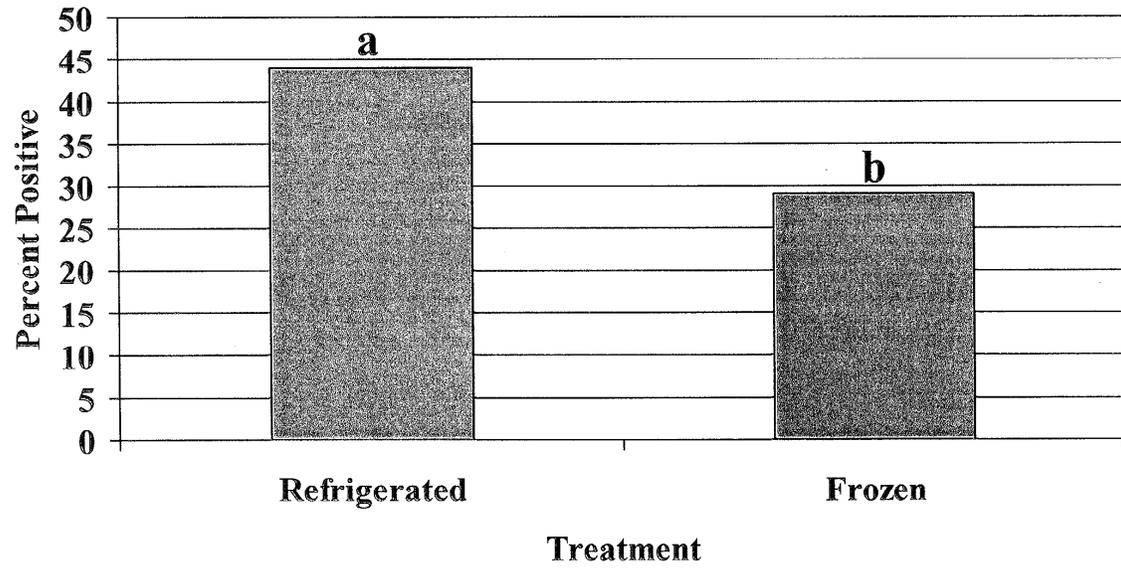
*Standard Errors are in parentheses.

Percent of E. coli Positive Refrigerated Samples by Site and Treatment



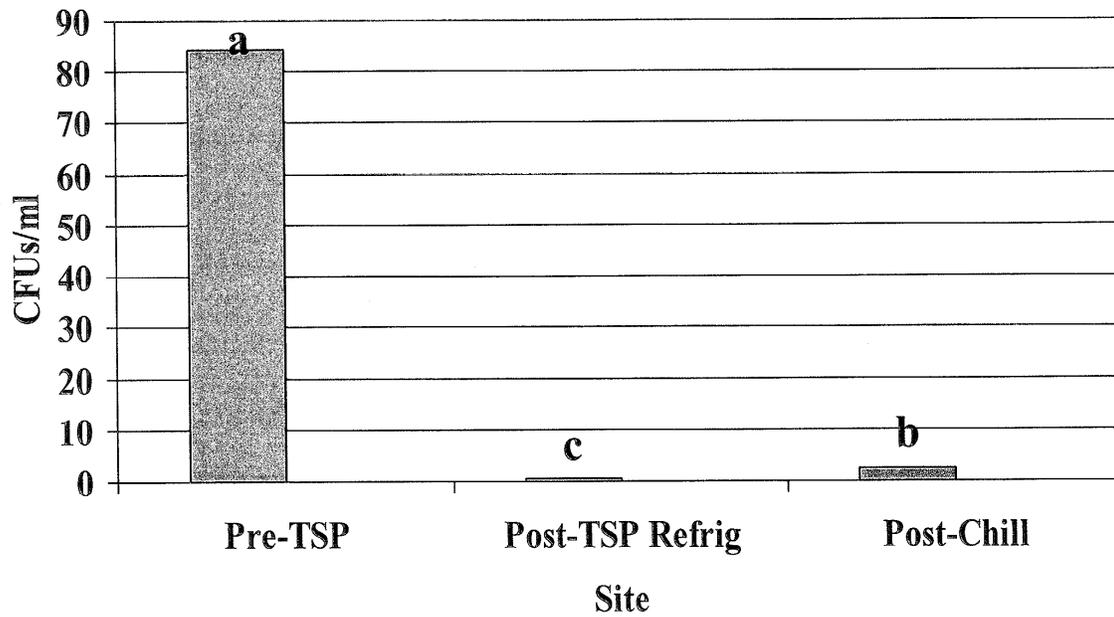
abc: Sites with different letters are significantly different

Percent of E. coli Positive Post-TSP Samples by Treatment



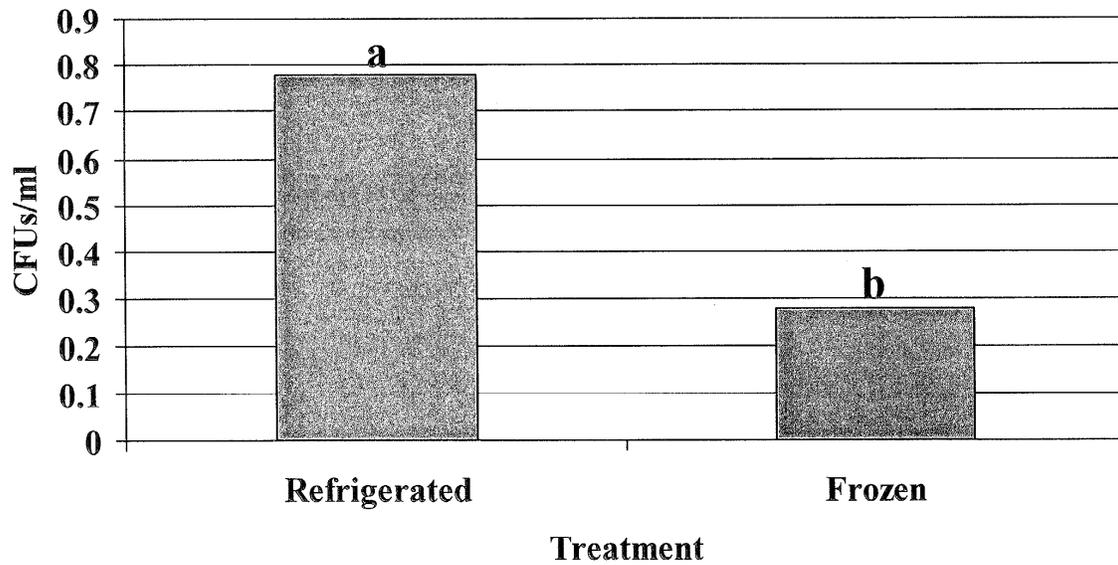
ab: Treatments with different letters are significantly different

Mean E. coli Counts by Site and Treatment



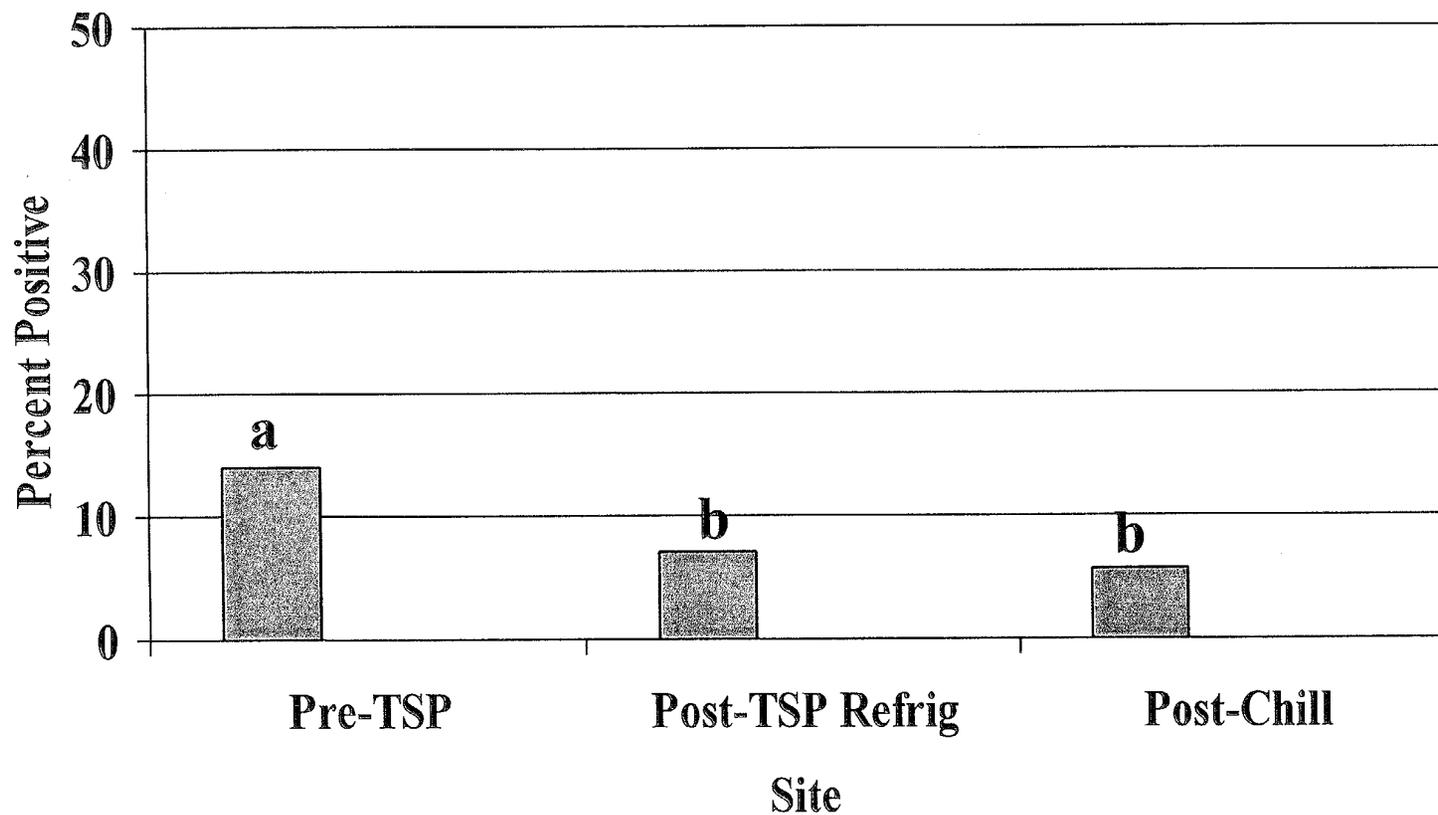
abc: Means with different letters are significantly different

Mean E. coli Counts for Post-TSP Samples



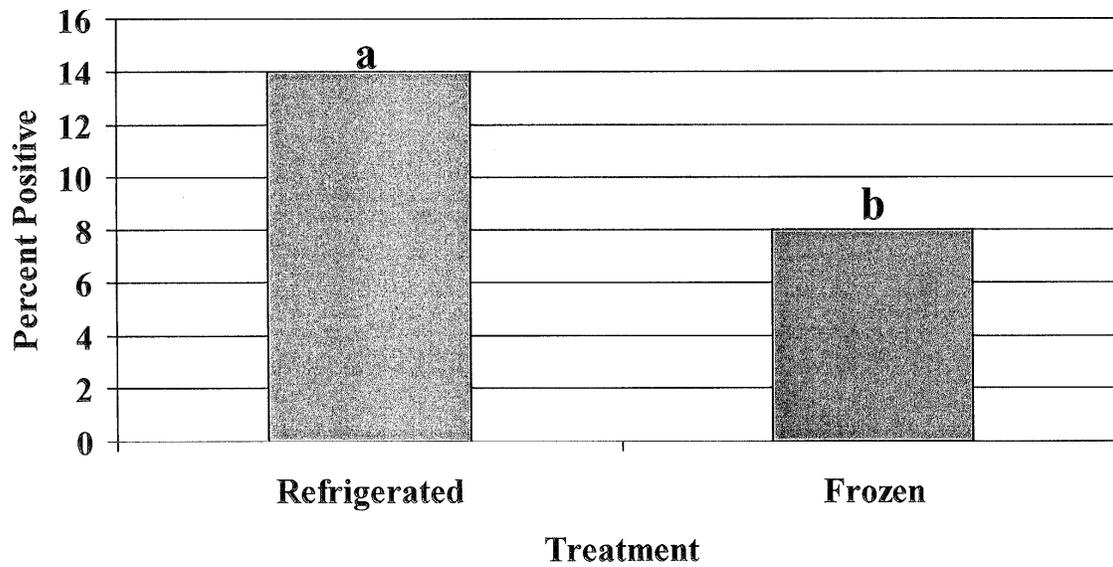
ab: means with different letters are significantly different

Percent of Salmonella spp. Positive By Site



ab: Sites with different letters are significantly different

Percent of Salmonella spp. Positive Post-TSP Samples from Reduced Data Set*



*Reduced Data set eliminated those plants that had only negative Salmonella responses

ab: Treatments with different letters are significantly different

Summary Stage I

- The incidence of Salmonella spp was lower after TSP application than before.
- The incidence and number of E. coli was lower after TSP application than before.
- Post TSP microbial data show lower E. coli counts and lower incidence of E. coli and Salmonella spp in frozen samples than refrigerated samples.
- Levels of 1/2% Salmonella spp and 1% E. coli Post TSP application are not reasonable from the data provided by these nine Plants, (2960 Salmonella spp samples, and 2386 E. coli samples).

Figure 1. A schematic of how Post-TSP samples were split, spiked, treated and tested for *E. coli* and coliform.

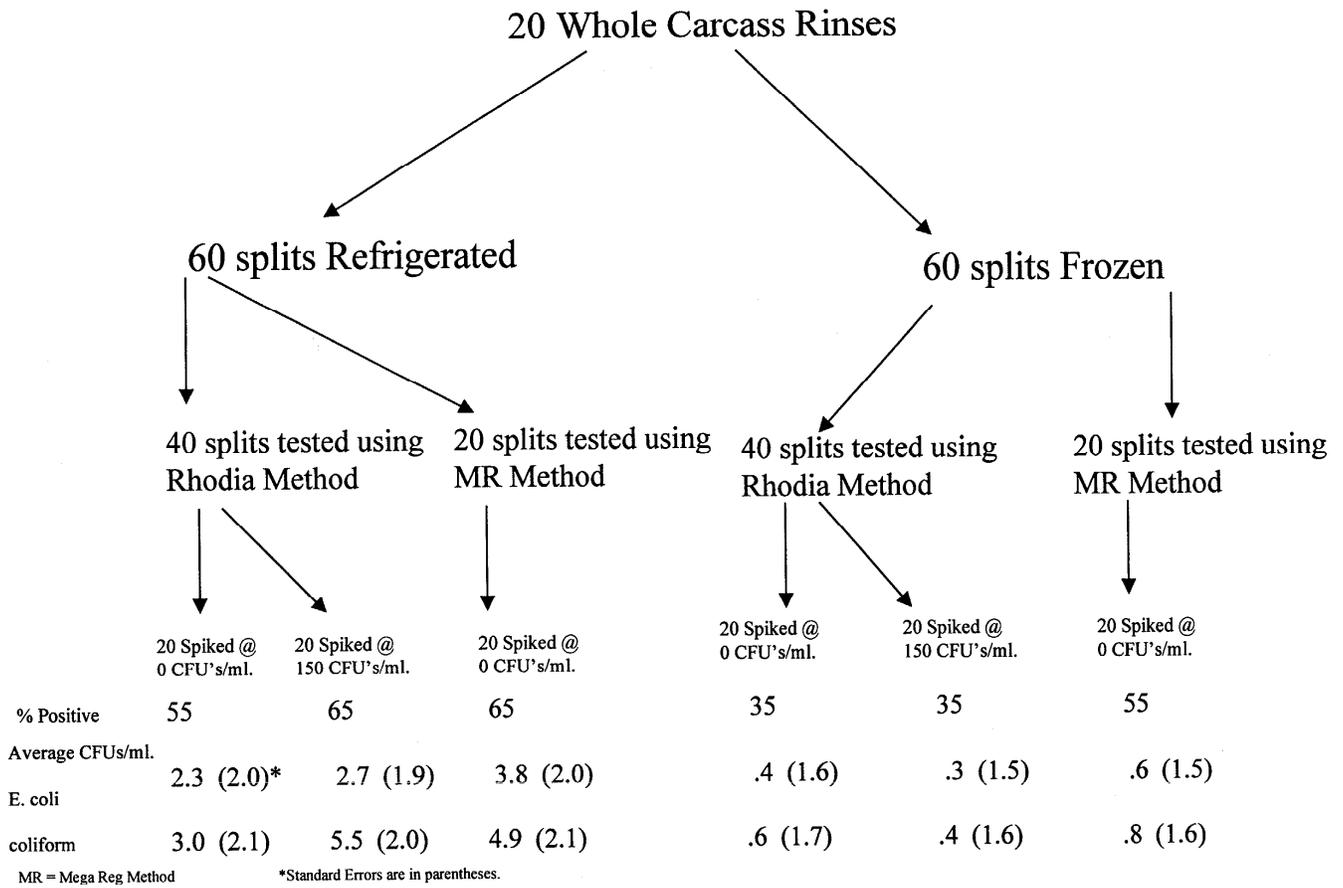


Figure 2. A schematic of how Post-Chill samples were split, spiked, treated and tested for E. coli and coliform.

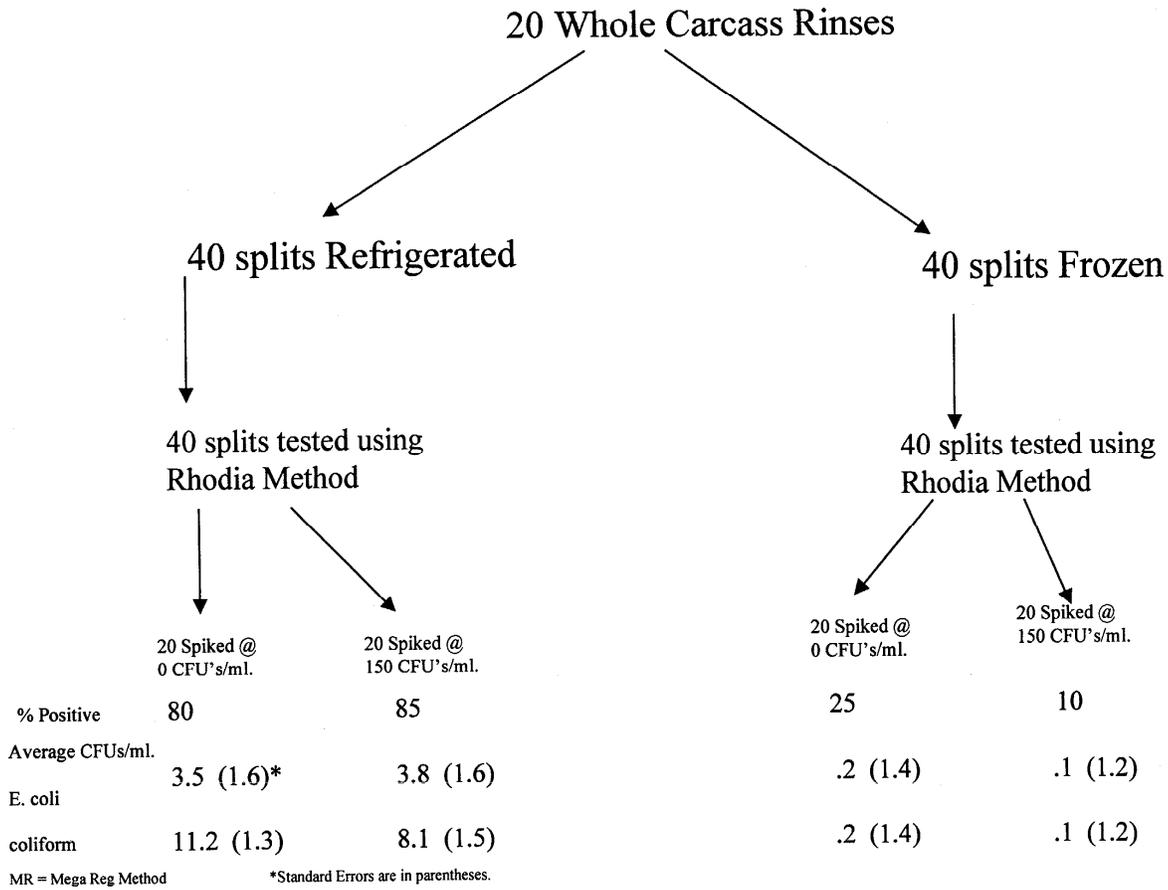


Figure 3. A schematic of how Post-TSP samples were split, spiked, treated and tested for Salmonella spp.

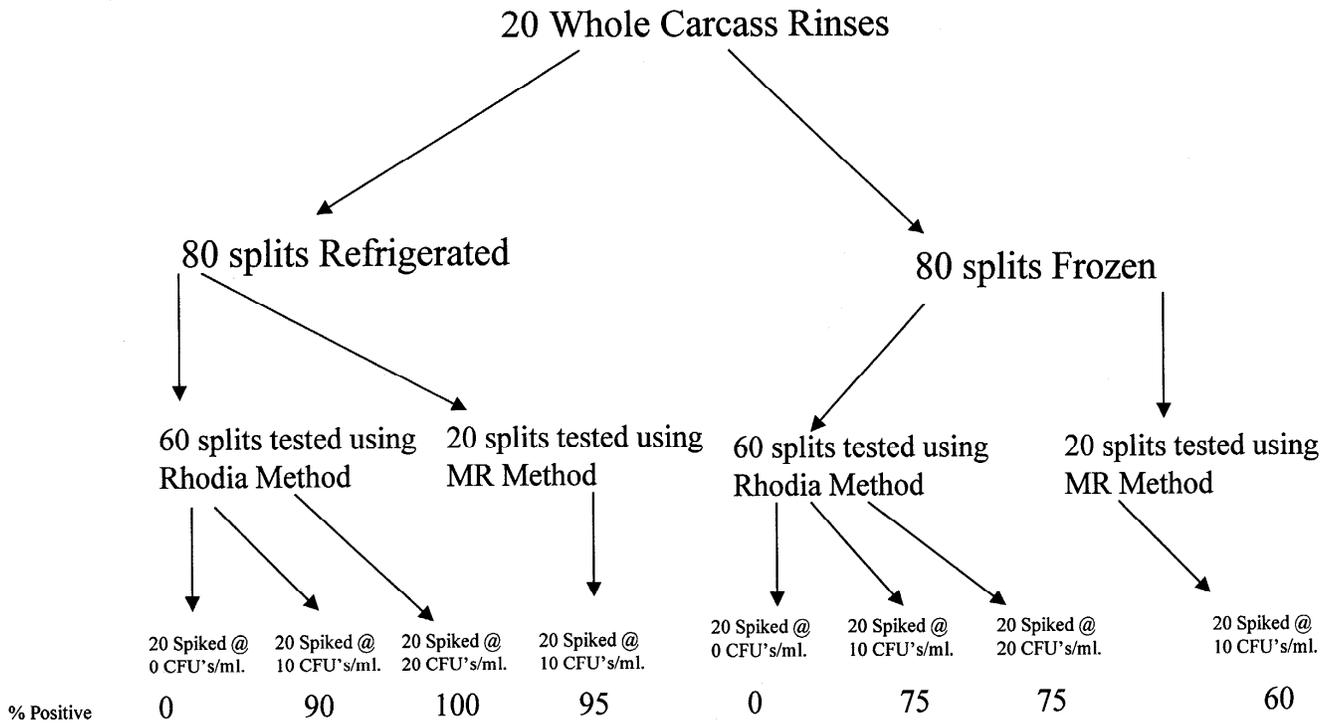
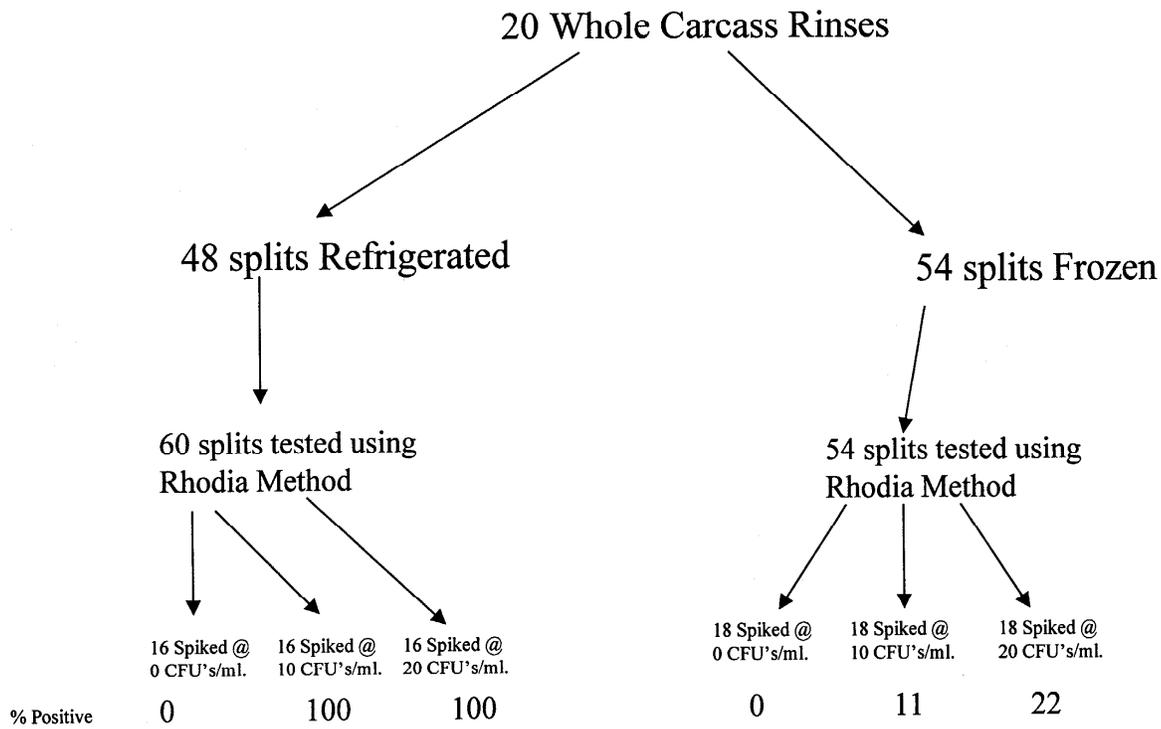


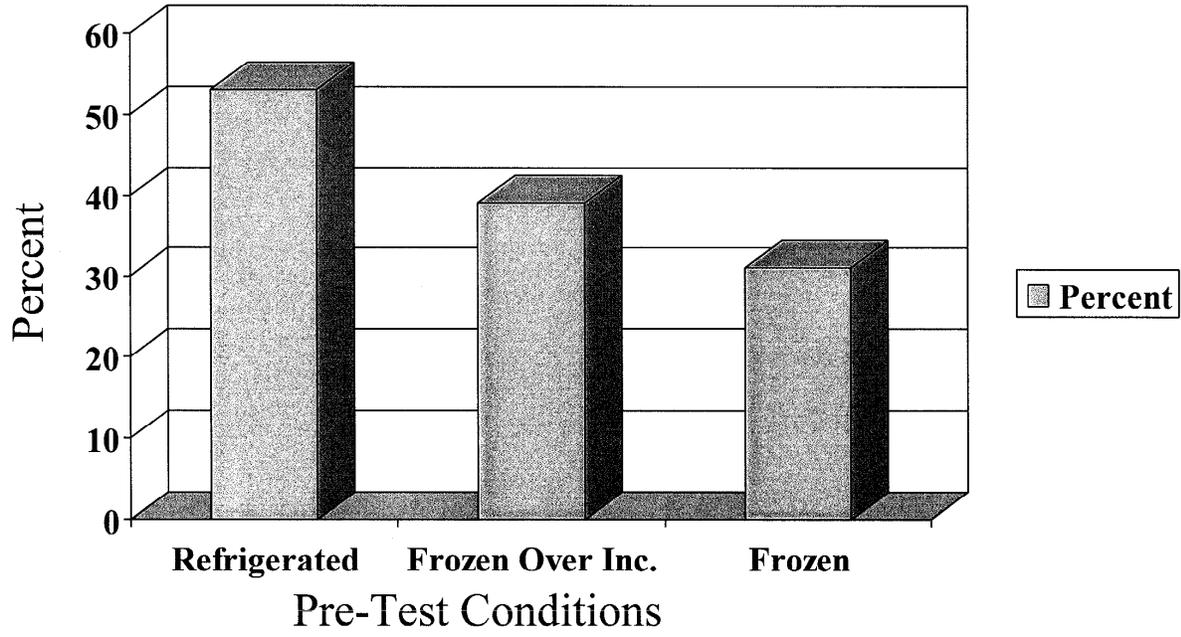
Figure 4. A schematic of how Post-Chill samples were split, spiked, treated and tested for Salmonella spp.



Summary Stage III

- There were no difference observed between conventional methods for detecting Salmonella spp or E. coli over the Rhodia methods.
- Freezing samples lowered Salmonella spp and E. coli incidence and E. coli counts as opposed to refrigerating samples.

Percent of samples that were Salmonella spp positive for three tests, (Refrigerated, Frozen Over Inc. , Frozen).



Summary Stage 3b

Freezing and Over incubation influences on Salmonella spp.

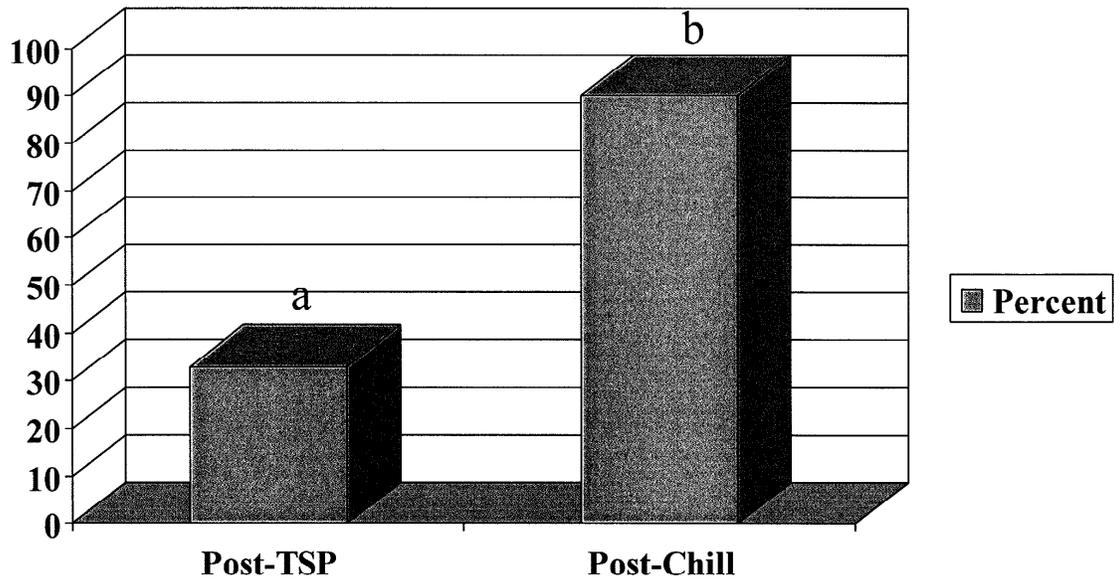
- Refrigerated samples were responsible for detecting the most positives.
- Frozen not over incubated samples detected the least number of positives.
- The data do not support the petition that plants can achieve a .5% Salmonella spp positive incidence post-TSP application.

Stage 4: The influence of chilling on E. coli counts.

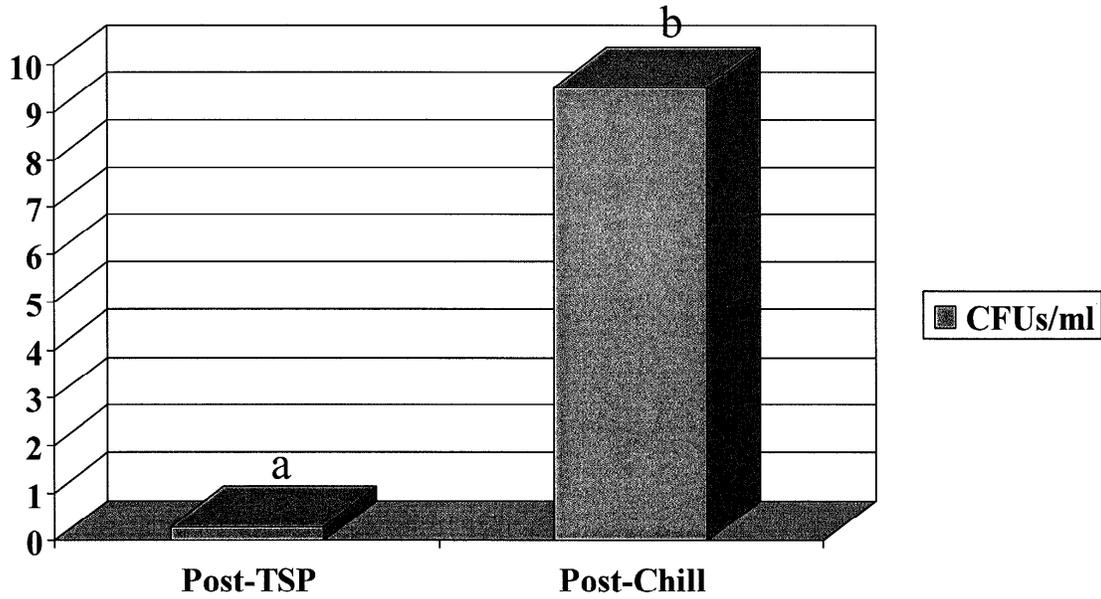
30 Carcasses Post-TSP Before Chilling				30 Carcass Post-TSP After Individually Water Chilled		
<u>% Positive</u>						
<u>E. Coli</u>	33			90		
Coliform	47			97		
Count	Average (Stderr*)		n	Average (Stderr)		n
<u>E. Coli</u>	.3	(.13)	30	9.5	(.15)	30
Coliform	.45	(.14)	30	19.3	(.11)	30

* The standard error of the mean appears in the parentheses.

Incidence of E. coli post-TSP and post-TSP individually chilled.



E. coli counts post-TSP and post-TSP individually chilled.



Summary Stage 4

- Carcasses rinsed immediately after TSP application had a lower incidence of E. coli than carcasses rinsed after TSP application and individually chilled.
- Carcasses rinsed immediately after TSP application had a lower E. coli counts than carcasses rinsed after TSP application and individually chilled.
- The data do not support the petition for a post-TSP standard for E. coli count or incidence.