

# FMD Simulations

06-20-2022

The following assumptions were made in the scenario work.

1. There are no imports for the entire period of simulation.

## Optimistic Scenario:

- Year1: 5% decline in domestic demand and exports are banned
- Year2: Domestic demand is back up and exports are banned
- Year3: Everything goes back to pre FMD

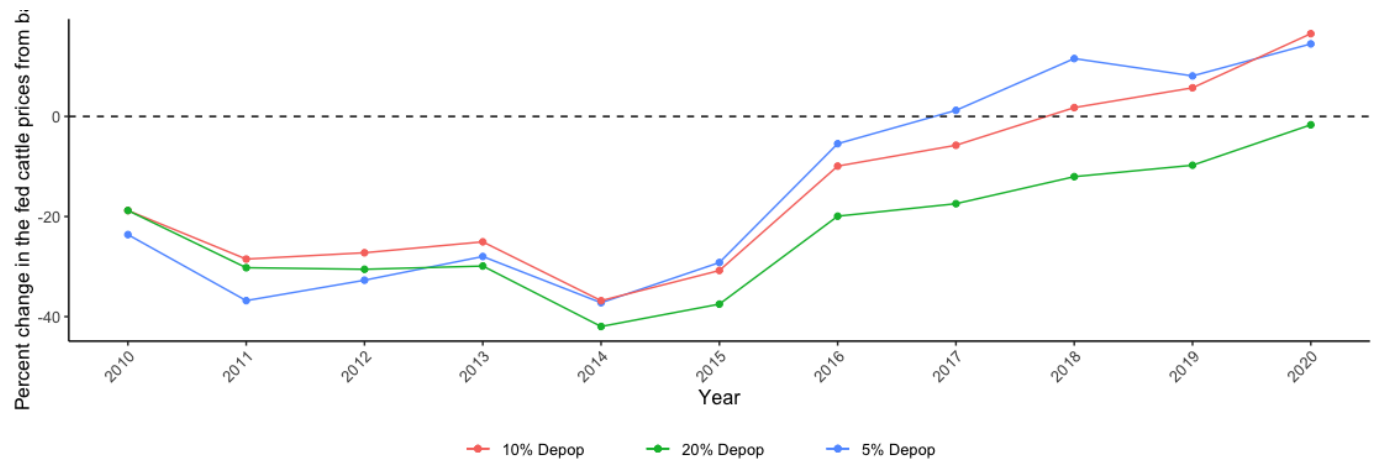


Figure 1: Percentage change in the fed cattle price

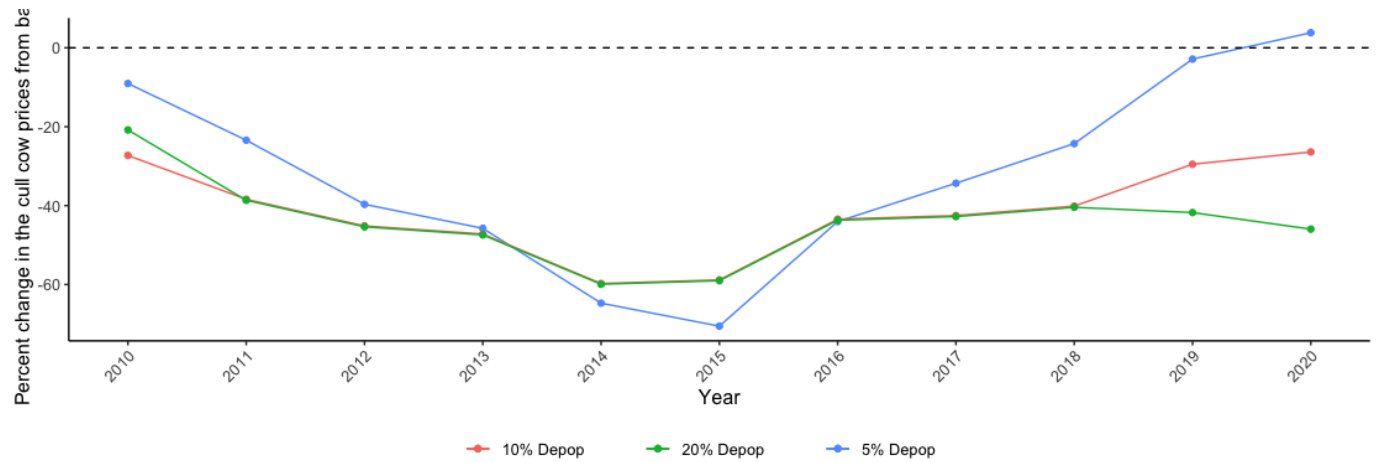


Figure 2: Percentage change in the cull cow price

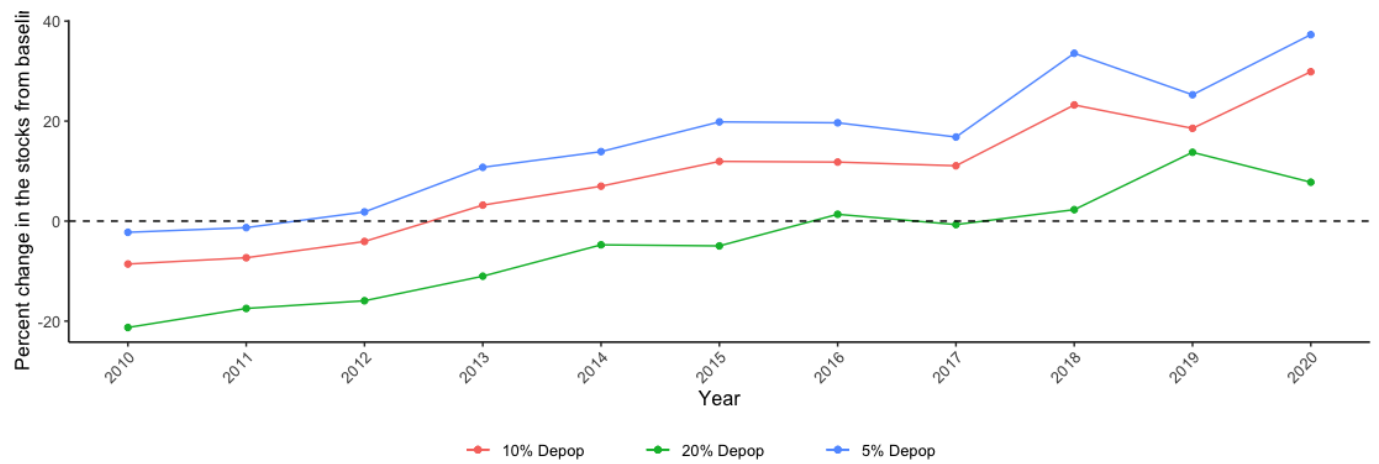


Figure 3: Percentage change in the stocks

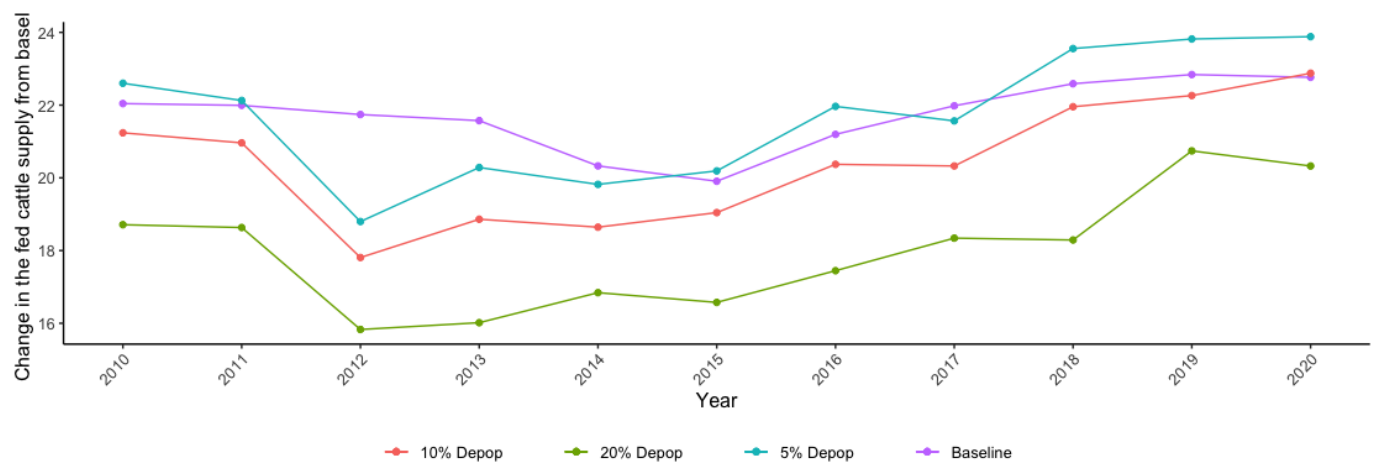


Figure 4: Change in the fed cattle supply - After adjusting for exports

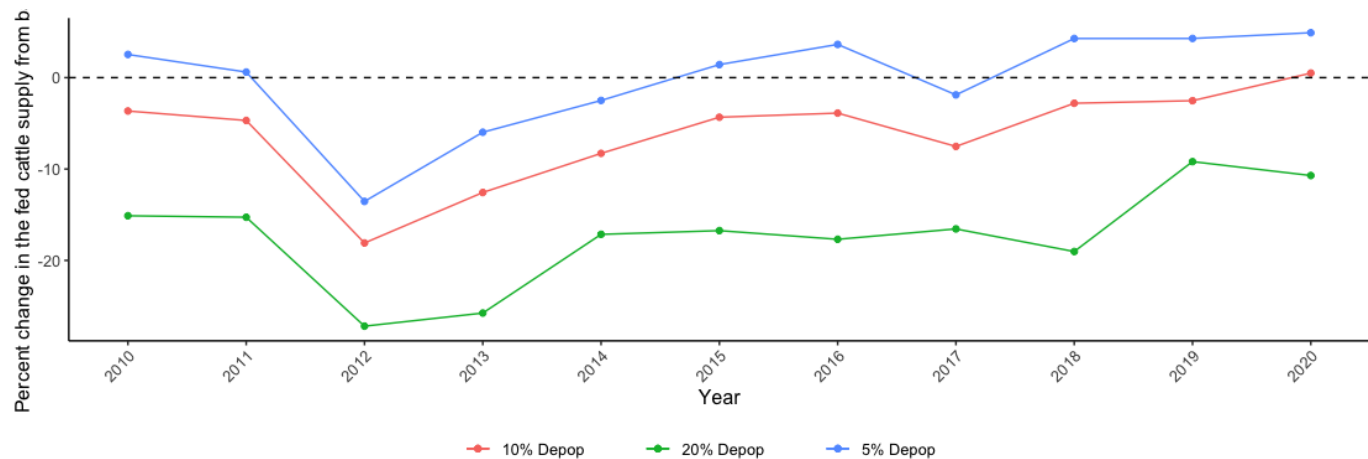


Figure 5: Percentage change in the fed cattle supply - After adjusting for exports

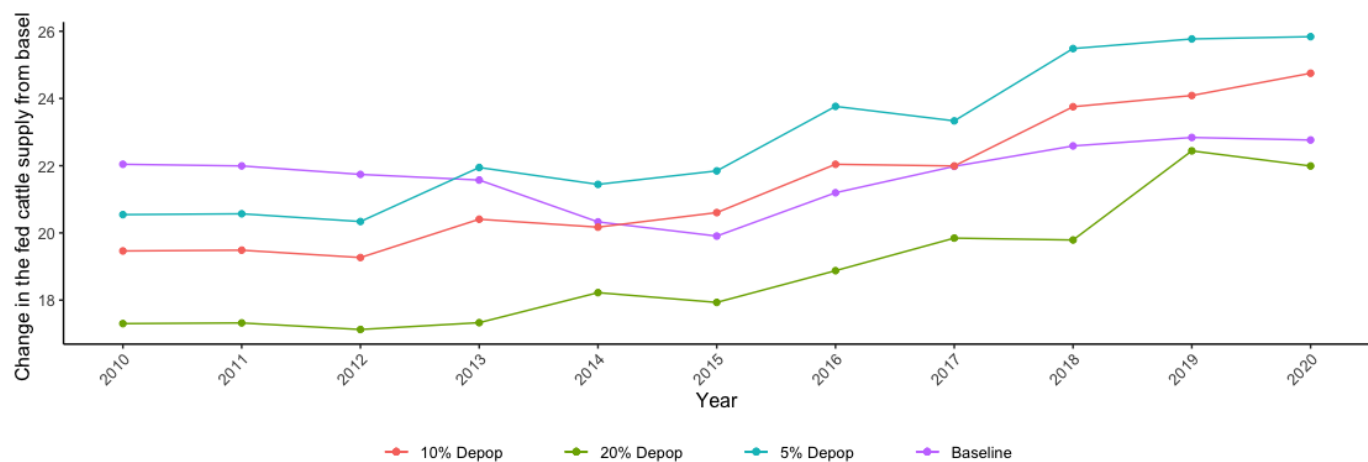


Figure 6: Change in the fed cattle supply - Before adjusting for exports

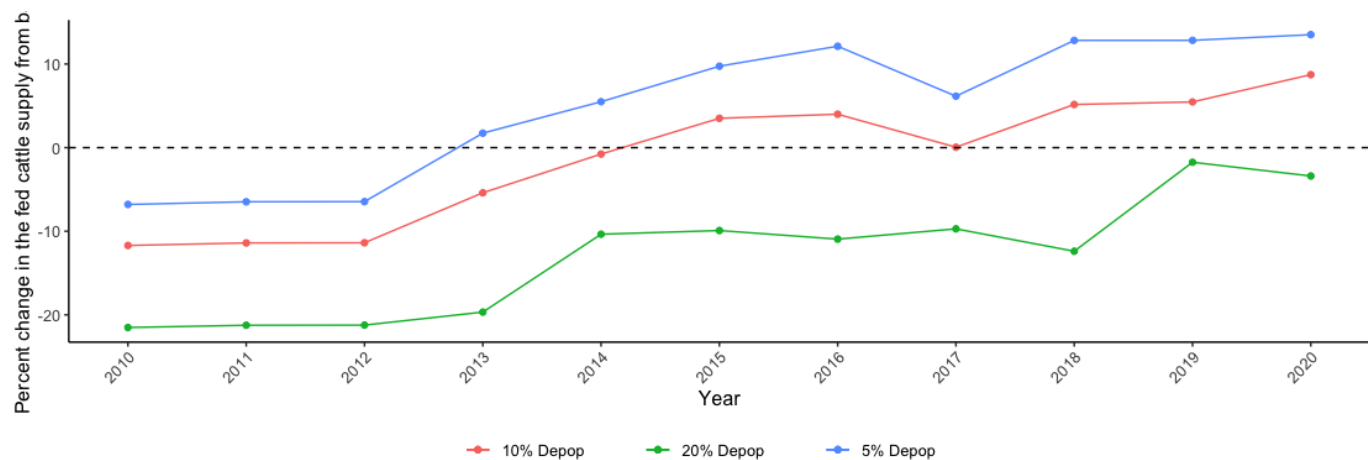


Figure 7: Percentage change in the fed cattle supply - Before adjusting for exports

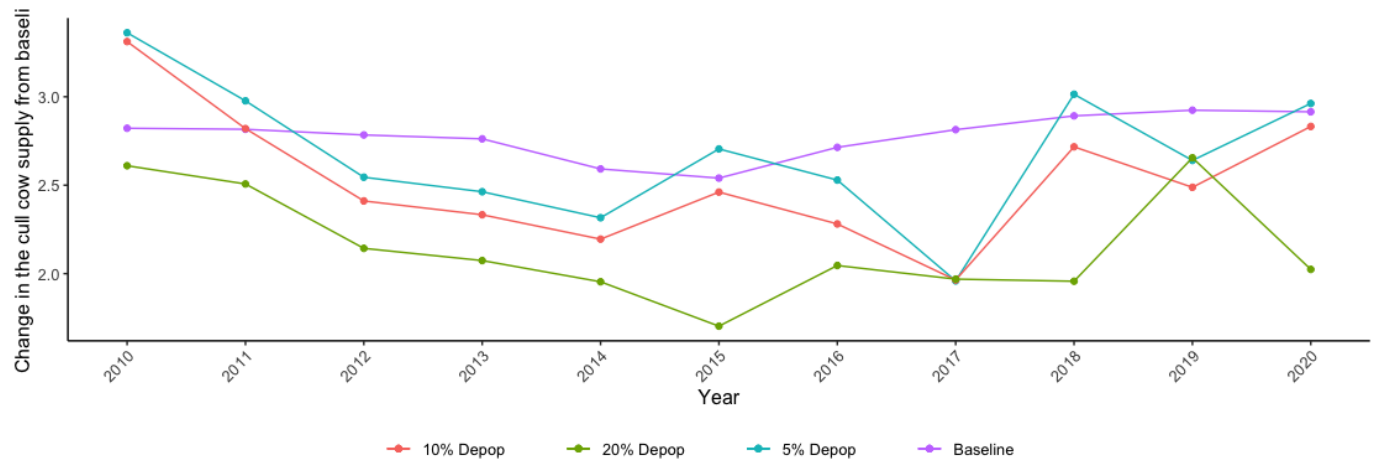


Figure 8: Change in the cull cow supply - After adjusting for exports

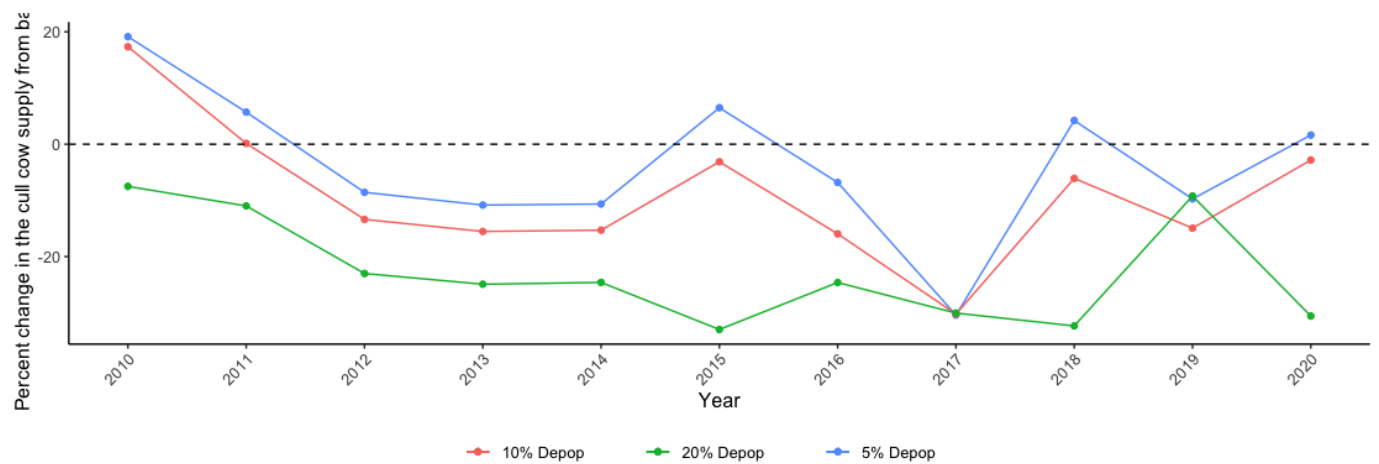


Figure 9: Percentage change in the cull cow supply - After adjusting for exports

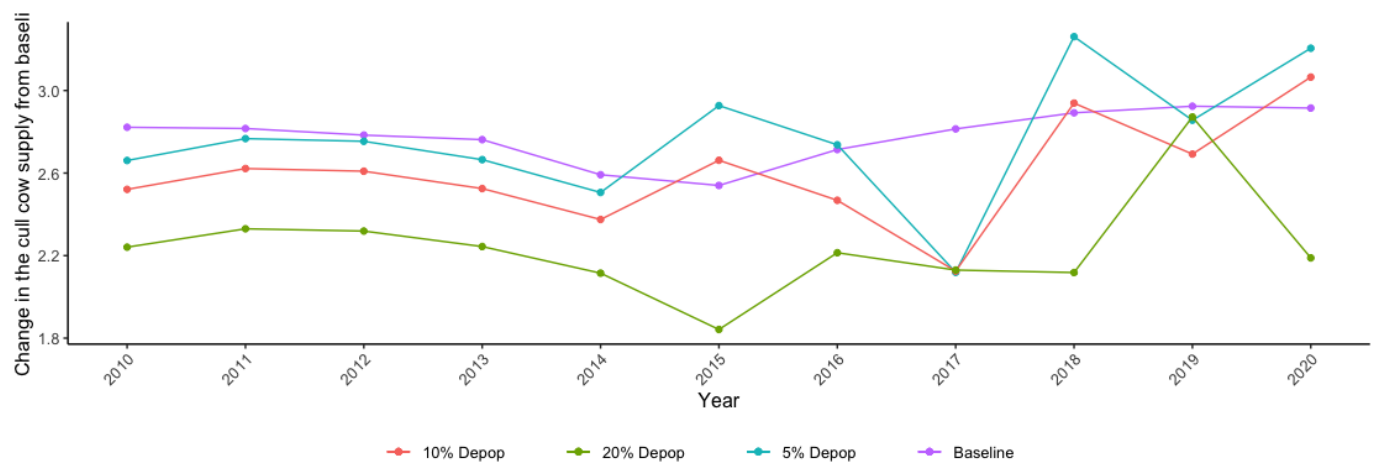


Figure 10: Change in the cull cow supply - Before adjusting for exports

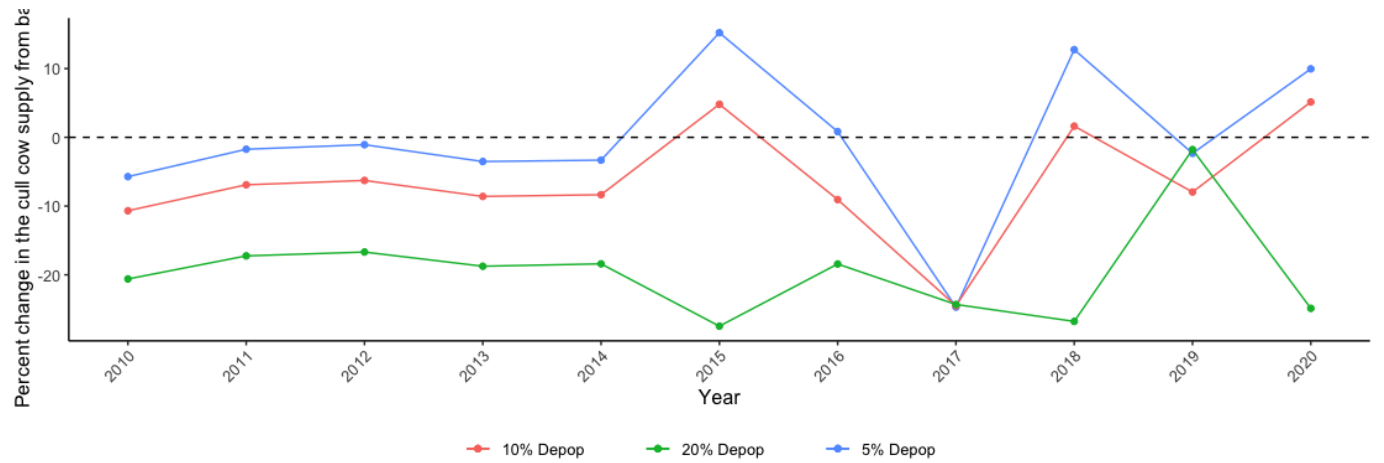


Figure 11: Percentage change in the cull cow supply - Before adjusting for exports

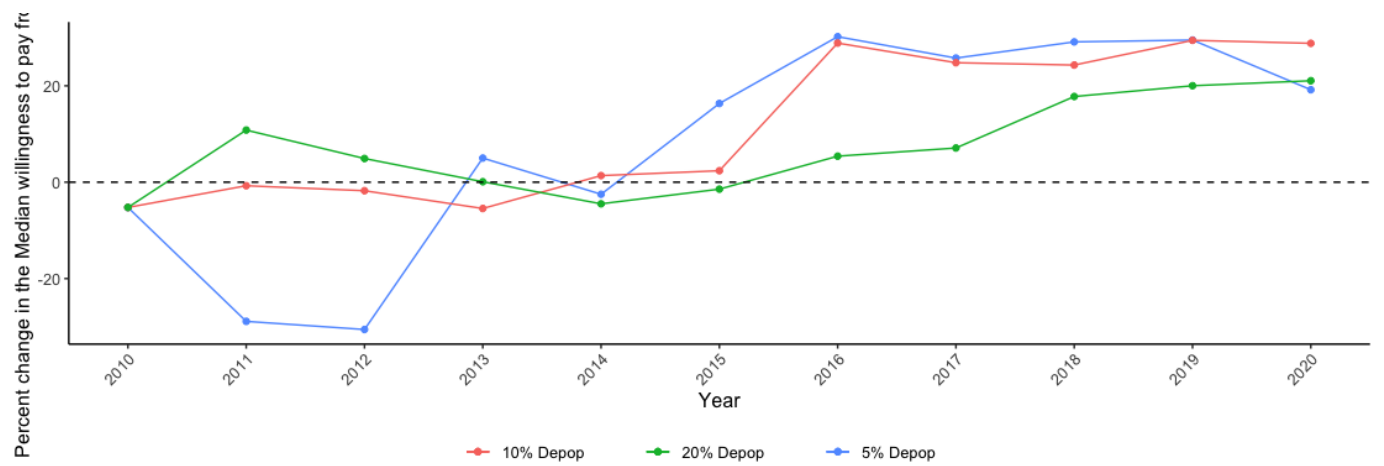


Figure 12: Percentage change in  $\mu$

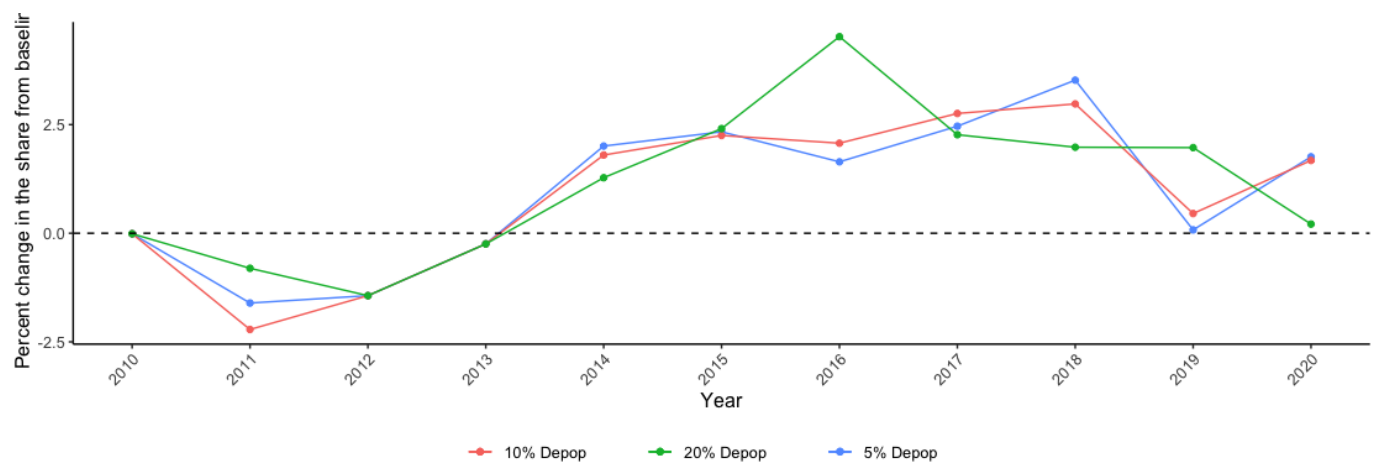


Figure 13: Percentage change in share

## Pessimistic Scenario:

- Year1: 5% decline in domestic demand and exports are banned
- Year2: 5% decline in domestic demand and exports are banned
- Year3: 5% decline in domestic demand and exports are banned
- Year4: Domestic demand goes back up, exports are still banned
- Year5: Exports are still banned
- Year6: Export band is lifted and everything goes back to pre FMD

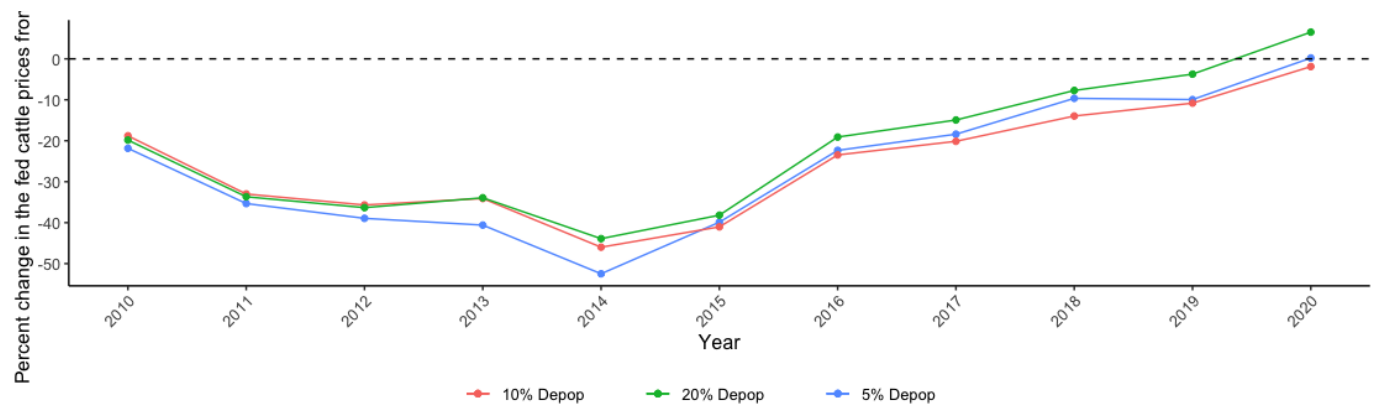


Figure 14: Percentage change in the fed cattle price

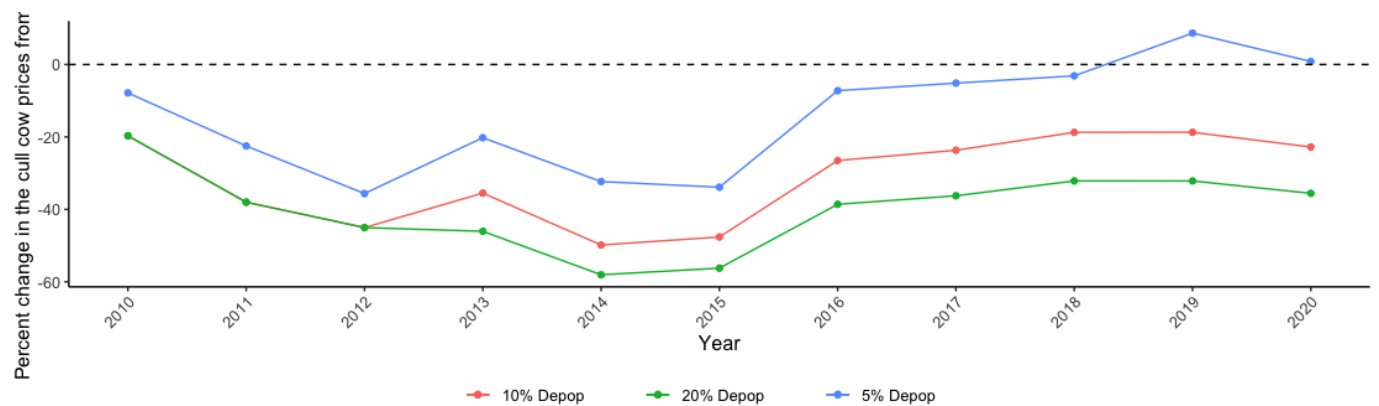


Figure 15: Percentage change in the cull cow price

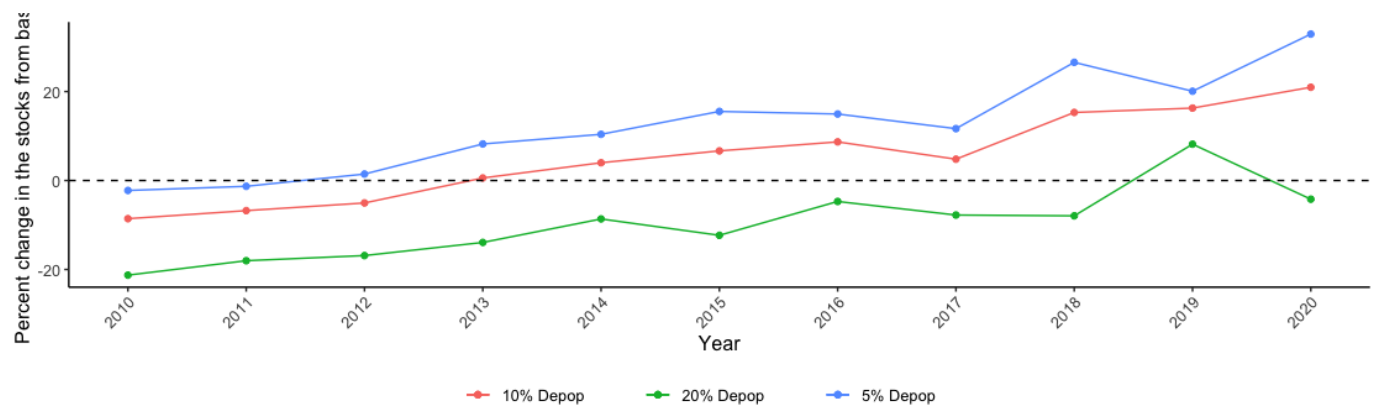


Figure 16: Percentage change in the stocks

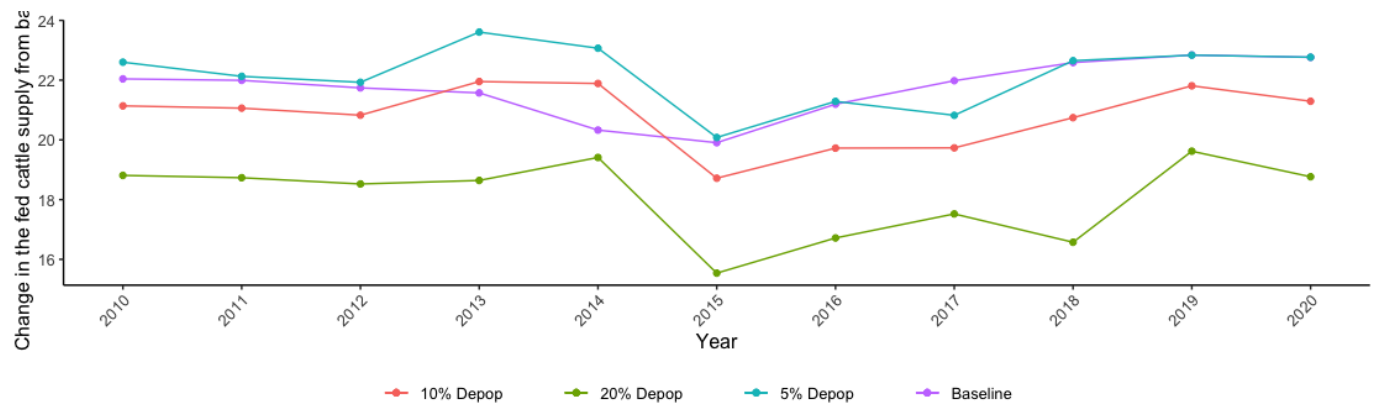


Figure 17: Change in the fed cattle supply - After adjusting for exports

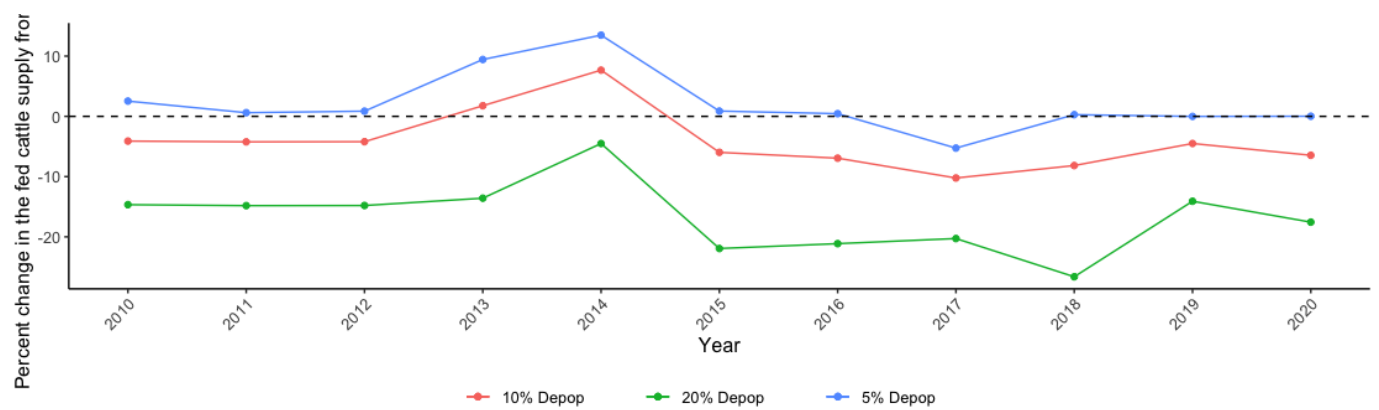


Figure 18: Percentage change in the fed cattle supply - After adjusting for exports

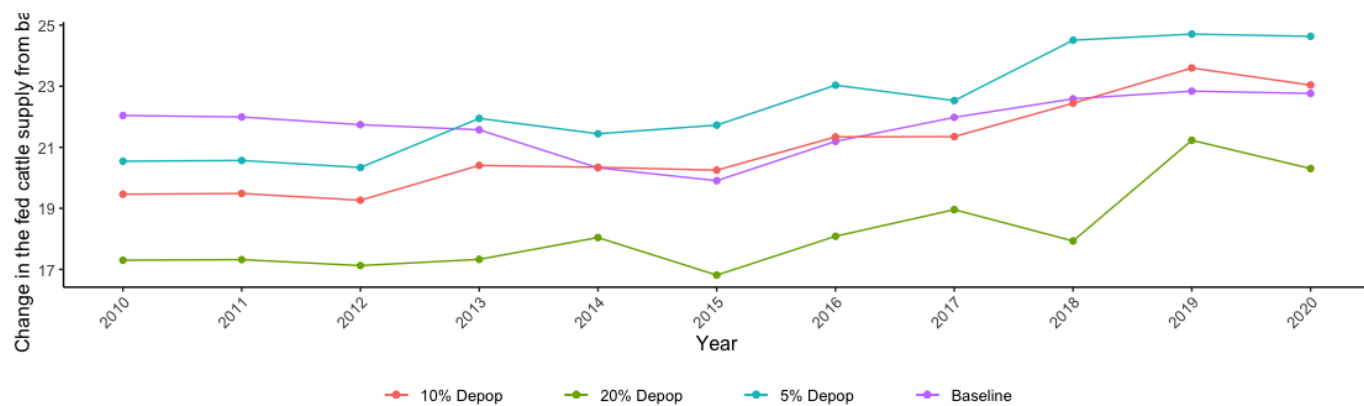


Figure 19: Change in the fed cattle supply - Before adjusting for exports

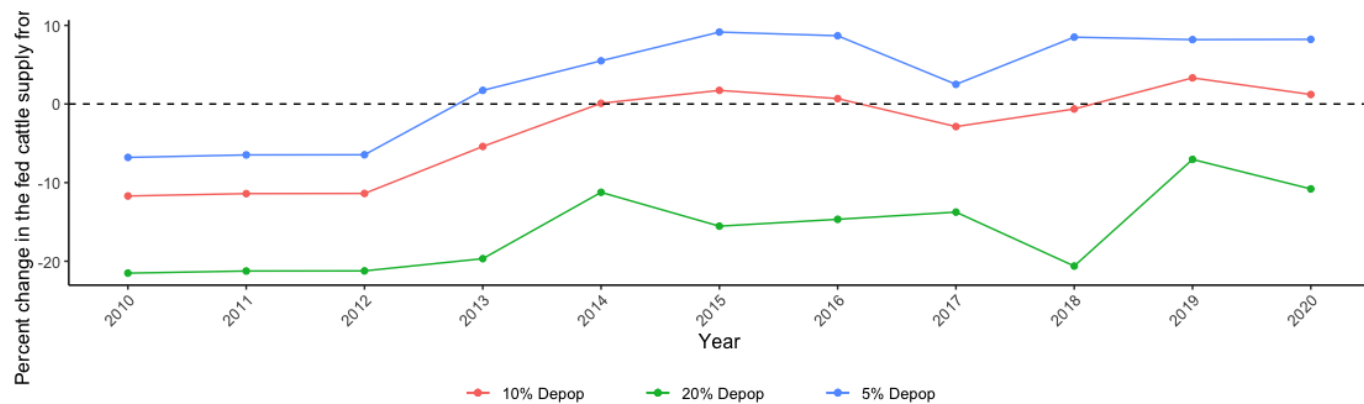


Figure 20: Percentage change in the fed cattle supply - Before adjusting for exports

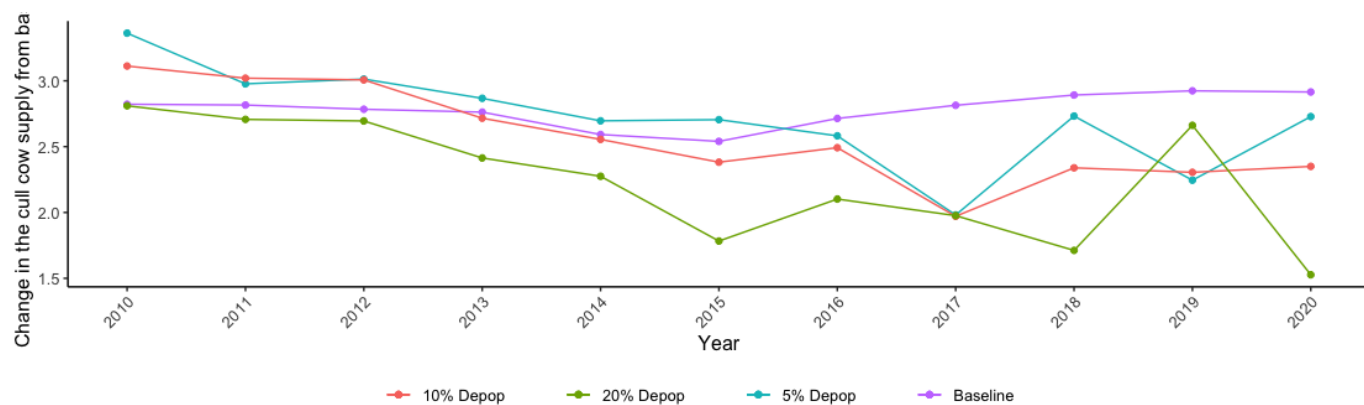


Figure 21: Change in the cull cow supply - After adjusting for exports



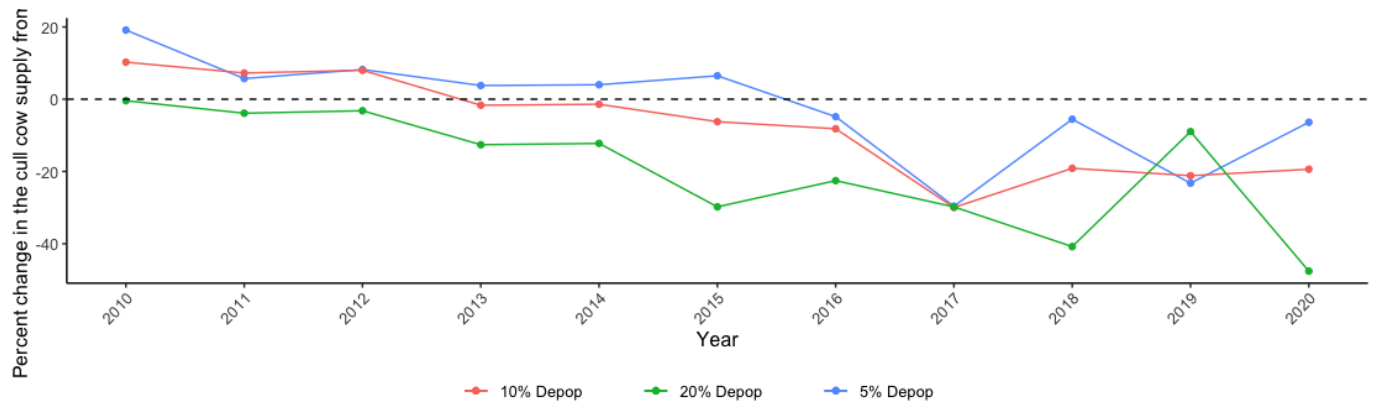


Figure 22: Percentage change in the cull cow supply - After adjusting for exports

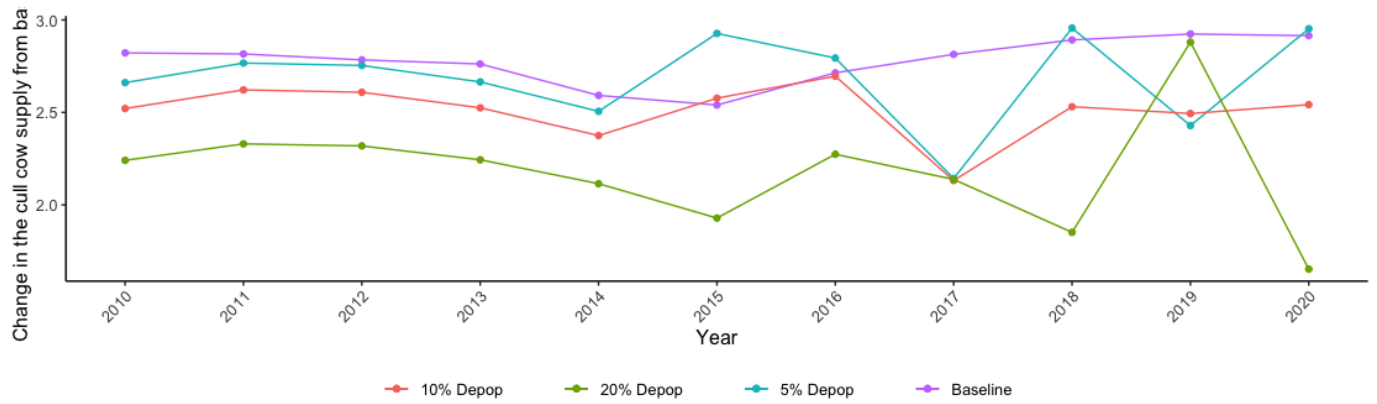


Figure 23: Change in the cull cow supply - Before adjusting for exports

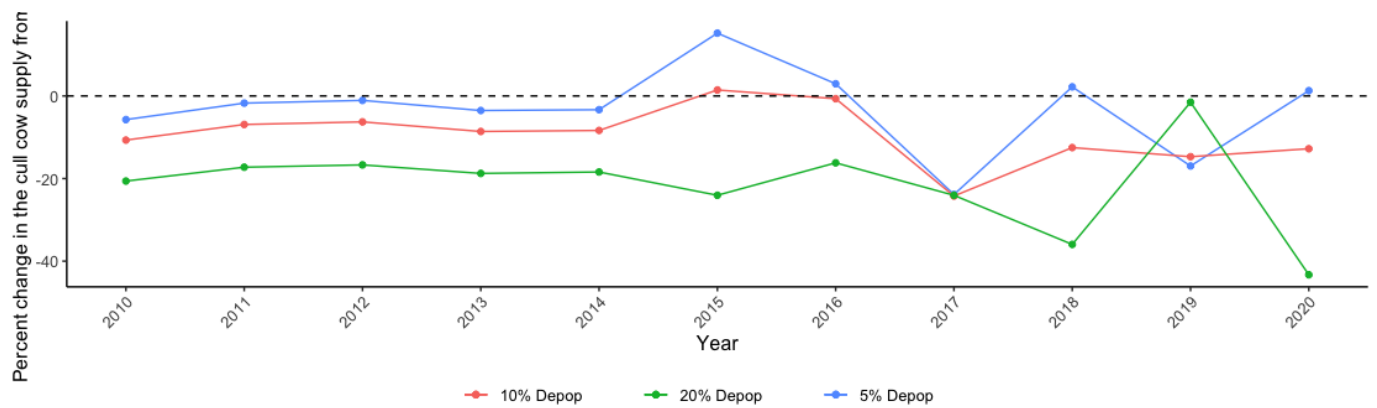


Figure 24: Percentage change in the cull cow supply - Before adjusting for exports

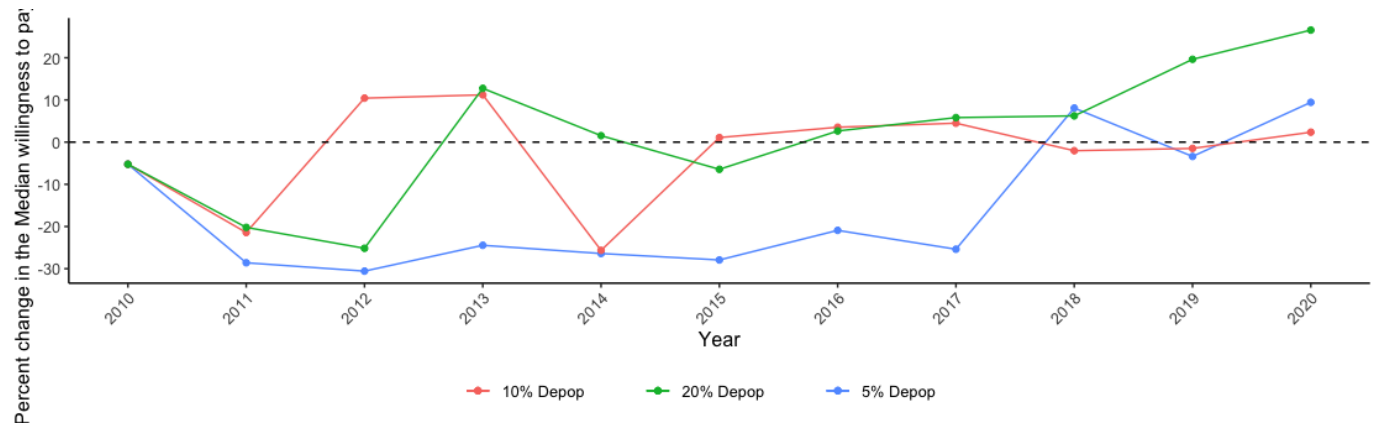


Figure 25: Percentage change in  $\mu$

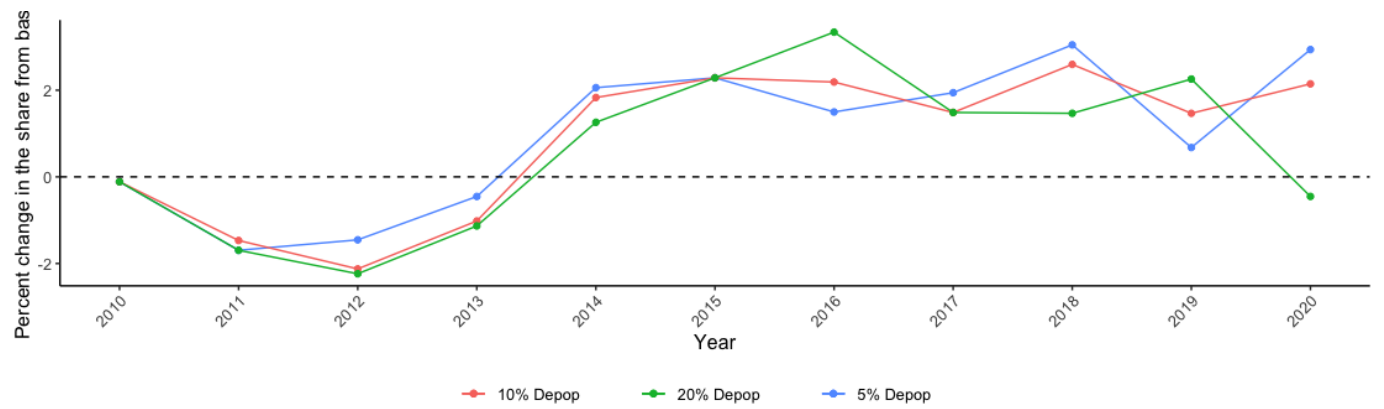


Figure 26: Percentage change in share