The study of management practices of beef cattle investigated the effect that the practices had on animal welfare and economic outcomes. Data was collected from various states, plants, and companies. There were 501 Lots of cattle, with 71,053 cattle altogether. Statistical analysis was used to see the effect on animal hot weight, as an economic outcome. Predictor variables were chosen by AIC model selection. The predictor variables that were selected from AIC were arrival humidity, arrival temperature, kill shift, plant, and sex.