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Champagne

Math 1001

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Graphs are my Specialty

I currently work at a poultry processing plant where we produce approximately one million chickens in a week. When I start to think about the different things we have covered in this class, there is not just one certain topic which stands out to me. However, I will cover several topics throughout my essay because they all play a role in my job.

The focus at our facility is making sure we have met all necessary criteria for our customer(s). We are a versatile company and we operate all over the world. Some of our facilities are in Brazil, China, as well as, here in the United States. We also produce a variety of product, which includes beef, poultry, and fish.

First, I would like to talk about collecting and organizing the necessary data in which we use to make our facility run efficiently with less costs as possible so we can yield a profit for the owners. The use of quadratic function is something we frequently use, as well as, percentage and interest. We figure several precise measurements on our machines to be able to meet the criteria in order to yield the best quality poultry in restaurants and stores.

We use the quadratic equations to generate house placement, this tells us how many chicks we

can place in a single house to achieve a healthy chicken for processing. Once, we have that information, we calculate the feed for the house and the length of time we have to let them grow. Upon arriving to us, we have to calculate, what we call, catch times in order for us to send them through the plant and them not to be hanging out in the cages on the yard for long periods.

However, if they are on the yard for extended amount of time, it could cause animal welfare issues and we could be fine an enormous amount of money. Once, the chickens arrive at the processing facility, we must know if they were any infections or feed issues within the houses so we can prepare for the processing and determine how fast we will be able to process them through the plant. If there is downtime within the facility, we must calculate how much time we lost and how is it going to affect us processing the chickens we are schedule to process and make the necessary adjustments. In order to make the quota for the week, we have to make the necessary adjustments to the line speeds or work more hours. Once, everything is running as planned and we are able to produce chicken breast, tenders, wing, leg-quarters or chicken feet. We calculate our loss/profits for the day. To calculate the yield and costs numbers you have many things to factor in. All of my excel spreadsheets contain formula’s to help keep track of this information for weeks, months and years to come and past history. I will have graphs showing the trending over certain periods and notes letting them know any relevant information, which pertains to drops or spikes in the graphs and processing.

We track and use percentage of reports turned in on time and discipline according to the work behavior. We have tremendous amounts of training we must maintain and I track it to make sure it is complete efficiently and timely. I chart and graph this information for the senior management team.

We always have a large amount of data to refer to when making the changes to enhance our process and to complete the yearly evaluation of the management teams.