# TOWSON UNIVERSITY PERDUE FARMS DATA ANALYSIS

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#### INTRODUCTION

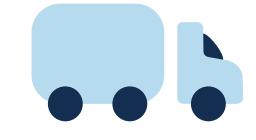
Perdue Farms is a local family-owned company in Salisbury, Maryland that has supplied quality products for over a century, striving to promote responsible, trustworthy practices in animal care, agriculture, and food. However, Perdue Farms seeks to maximize their delivery time and resources. Specifically, hold time costs are accumulated when a truck is held by a customer for an extended period of time. This causes a domino effect in being late to each stop afterwards. Therefore, in order to propose a suitable solution to this persistent issue, we helped analyze their datasets based on the following three questions:



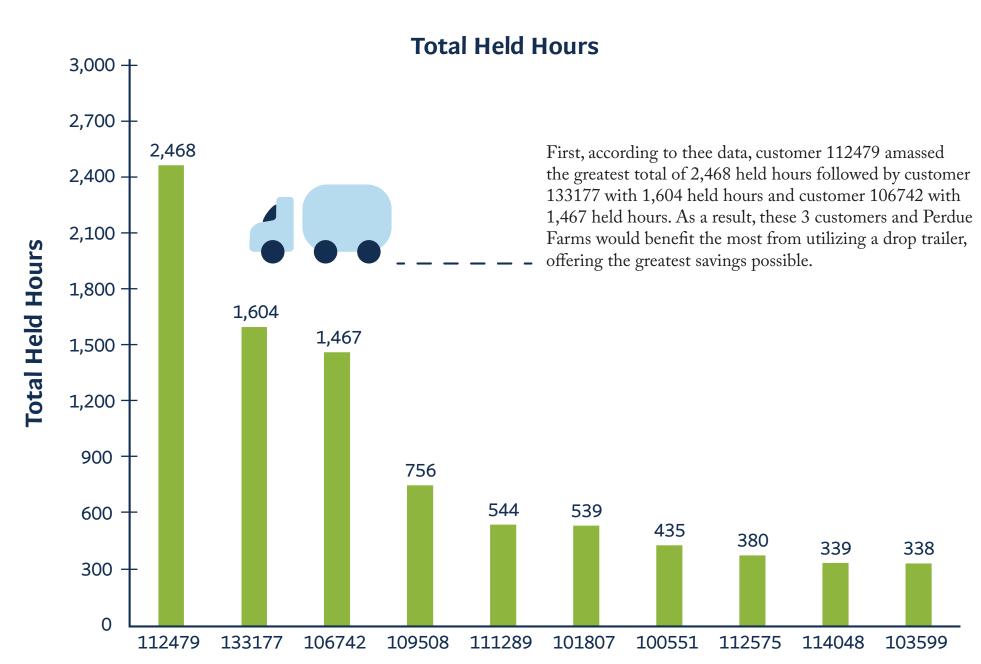
- 1. Which customers would offer the greatest savings by using a drop trailer?
- 2. What are the top 10 customers with the highest per pound delivery cost?
- 3. Which 10 customers had the highest incidence of held time? In number of occurrences? In overall cost of occurrences? And in percent of deliveries?





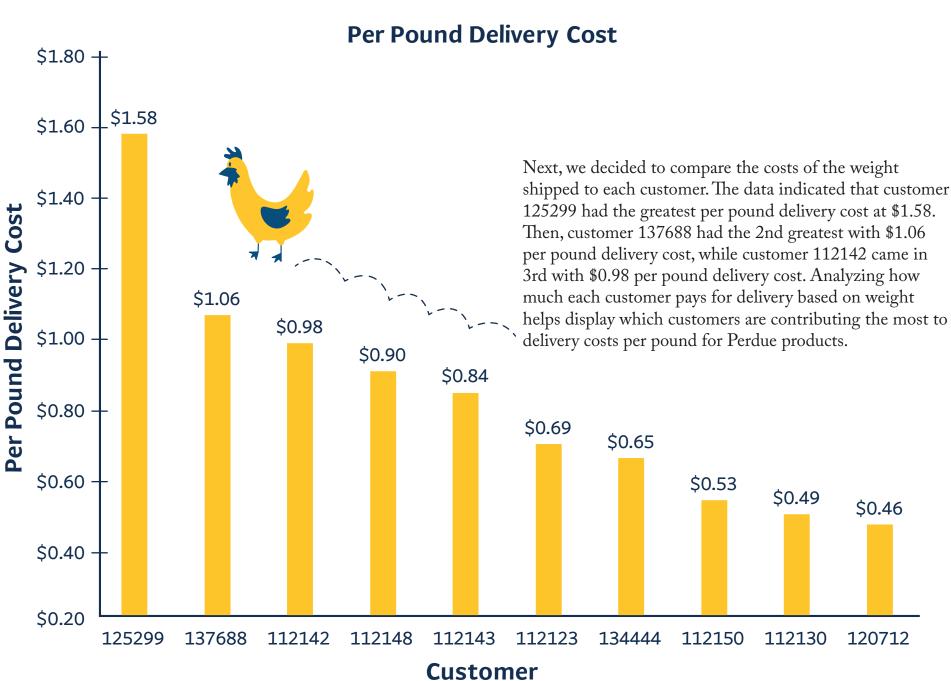


## 1. WHICH CUSTOMERS WOULD OFER THE GREATEST SAVINGS BY USING A DROP TRAILER?



# 2. WHAT ARE THE TOP 10 CUSTOMERS WITH THE HIGHEST PER POUND DELIVERY COST?

Customer



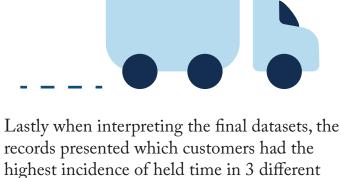
3. WHICH 10 CUSTOMERS HAD THE HIGHEST INCIDENCE OF HELD TIME?



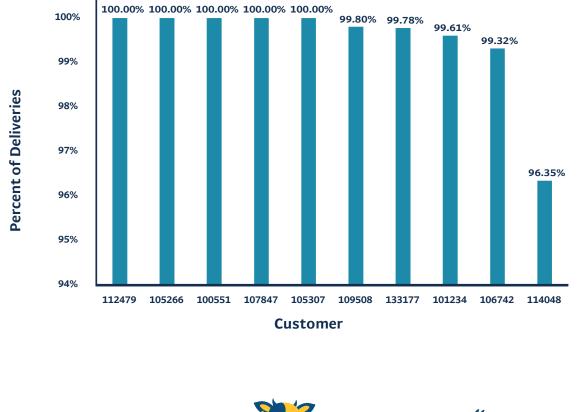
**Number of Occurrences** 

600





aspects: number of occurrences, overall cost of occurrences, and percent of deliveries. As with Question 1 on total held hours, customer 112479 was consistently the largest throughout each of these 3 visualizations for Question 3. Additionally, customer 133177 and 106742 is in a similar high standing too with customer 112479. However, the data deviates when comparing the next greatest customers in the percent of deliveries bar chart.

























### **Conclusion**

Overall, the research, datasets, and visualizations strongly suggest that Perdue invests in drop trailers for customers 112479, 133177, and 106742. Not only will this make the dropoff session more convenient for Perdue Farms' delivery truck drivers in saving money, time, and energy, but will also benefit those tasked with unloading the products at the dropoff site. Rather than incurring additional costs during held time, the Perdue Farms truck drivers can stay on schedule delivering products to the subsequent customers thereafter and continue exceeding their on-time performance to build trust with customers.