

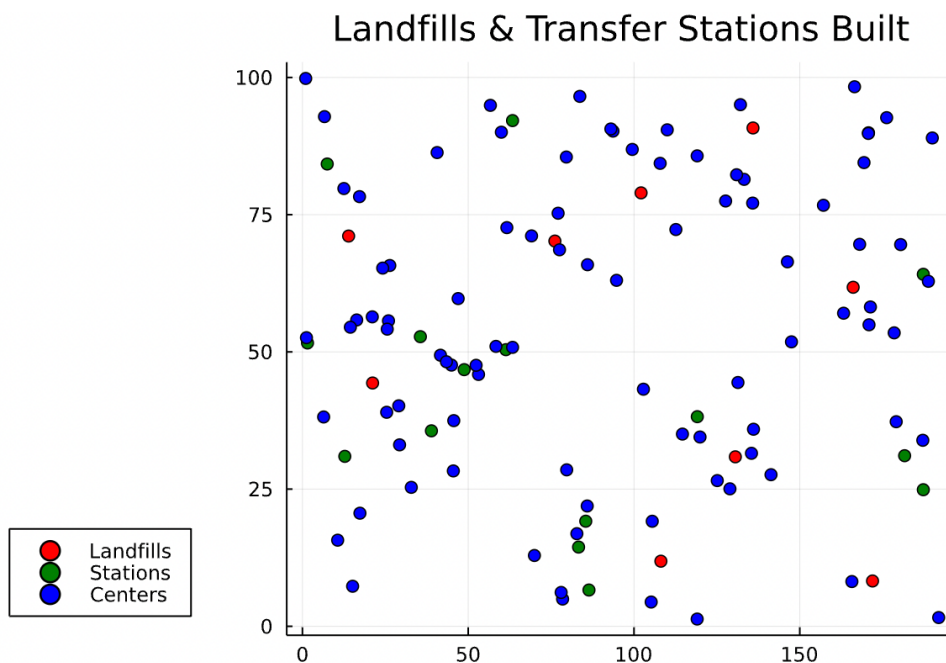
Memorandum: Waste Disposal Plan

To: County Leadership

Written By: Bennett Hellman – Data Scientist

Purpose: The purpose of this memorandum is to outline a plan for waste disposal in the most efficient and cost-effective manner possible.

Recommendation: Based on quantitative evidence, we should pursue a multi-regional waste disposal plan that includes the building of transfer stations and landfills in the following locations:



Evidence: When considering whether to build transfer stations we calculate the estimated cost savings to be \$31,844.77. This is because of the reduced cost of compacted waste disposal. Additionally, the total savings of employing a multi-regional disposal plan is \$20,046.69. This is because some centers in Region A are closer to transfer stations or landfills in Region B, and vice versa. For example, 5,172.85 units of waste are transported to from a center in Region A to a landfill in Region B. When you impose regional restrictions, you only limit potentially more efficient waste disposal plans. The overall cost of this plan would be \$1,865,384.50.

Practical Concerns: The main practical concern is the objective to simply minimize costs does not consider environmental factors. We may want to investigate disposal plans that minimizes the overall carbon footprint. Additionally, there may be some concerns of disposing more waste in one region as opposed to the other. Our current plan does not consider an equitable disposal of waste into both region's landfills.