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Abstract

In response to inquiry from Sole Pineapple Co., BC Consulting engaged in efforts to improve company resource management in fiscal year 2018 while remaining within current company guidelines. Final results from this endeavor suggest multiple distribution and purchasing changes that yield $7.6 per dollar annual increases.

sole pineapple co. Resource Management

Executive Summary: Lead Analyst, Blake Conrad

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Sole Pineapple Co. Resource Management

Lead Analyst, Blake Conrad

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# Introduction

## Purpose

In order to mitigate Sole Pineapple Co. concerns for future resource management, we have produced a detailed analysis to determine what supplier-product mix will yield the most profit. We have projected increase in profits from $10,000,000 to $55,350,000 next year with the suggest allocation changes in *Figure 1*. By allocating majority of high-quality field resources to whole pineapples, mid-quality field resources to juice, and low-quality field resources to juice a large impact is made on the amount of profitability.

*Figure 1*:

Percentage Allocation by Field.

# Methods, Models, and Tools

## Methods

By applying linear programming optimization on the Sole Pineapple Co. problem, we were able to determine a clear best solution. This method took the mix of field-products that directly caused the most profitability while considering all of the constraints mentioned in the *Memorandum of Understanding* provided prior to study initiatives. This recommendation states to make as much juice as possible for low-quality fields, and take a more balanced approach across higher quality fields.

# Conclusion

## Recommendation

In conclusion, we have projected increase in profits from $10,000,000 to $55,350,000 next year with the suggest allocation changes in *Figure 1*. By allocating majority of high-quality field resources to whole pineapples, mid-quality field resources to juice, and low-quality field resources to juice a large impact is made on the amount of profitability.

## Further Research

Further research and analysis must be done to sufficiently inform any of the changes found in *Assumptions* as well as if any number of suppliers, changes in suppliers, change in number of products, or changes in products themselves arise; any changes could substantially impact profit margins without appropriate consultation. Additional work can be done with this analysis to integrate any and all of the following: *Statistics* to illustrate custom hypothesis tests and confidence intervals to give assurance on very specific domain based questions regarding current demands and data, *Stochastic Simulation* to forecast future market demands based on historical data, evaluate the risk via impact and likelihood to understand severity of economic and political change, as well as future company changes, and *Predictive Modeling* to build sustainable models that will show which markets Sole is impacting the most, least, and where the next step for the company would yield the greatest impact.