LPMS consulting

Group 20:

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Findings for TomMac Strategic Decisions

Overview

We are investigating:

- The optimal operation for the current circumstances
- The ability to increase profits with the presented strategic decisions and future uncertainty
- The ability to increase profits by varying mix proportions
- Possible further investigation to inform future ventures for growth

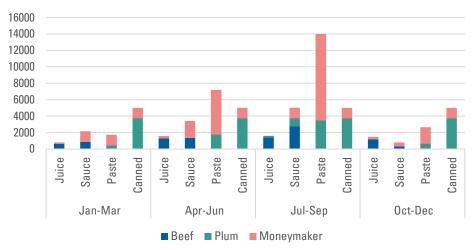
Please note — all calculations on this report were done using XPress, and the details are set out in an accompanying Mosel file which we are happy to provide. We have also put together a report with some additional details and analysis

Base Case

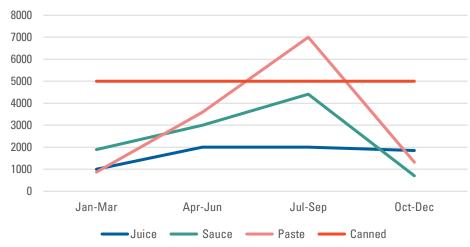
- Tomato varieties available : Beef, Plum and Moneymaker
- Products to manufacture: Juice, Sauce, Paste and Canned
- Limited by: Tomato Availability, Tomato Composition, Production limits, Demand,
 Contract

For the Base Case

Amounts of each variety used for each product



Amounts of each product to make



- Buy all available Moneymaker tomatoes in each quarter
- Buy all Beef tomatoes in Q1 + Q4

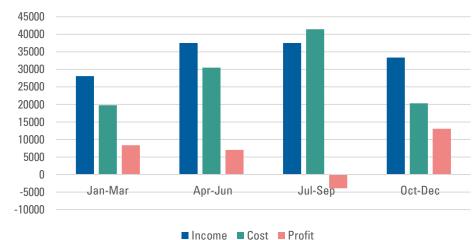
Paste production limited in Q3

Base Case Continued

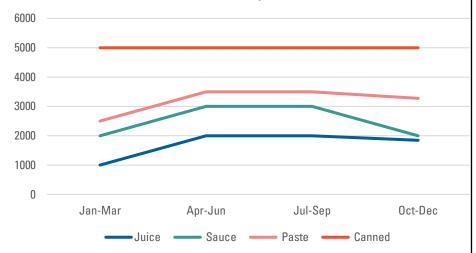
Stock	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
Juice	0	0	0	0
Sauce	0	0	1410	108
Paste	0	90	3590	1633
Canned	0	0	0	0

 Warehouse filled in Q3





Amounts of each product to sell



 Meet contract and demand for canned product every quarter

Overall profit £24,500

£3900 loss in Q3

Strategic decisions

	New contract sales			
	Juice	Sauce	Paste	Canned
New contract (kg)	600	1000	1000	2000
New contract price (£/kg)	1.93	2.66	4.35	2.05

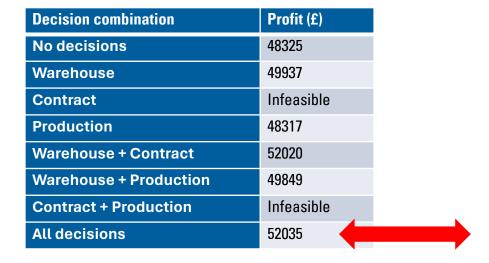
- 1. Rent new warehouse extra 5000kg, costs £3000 / year
- 2. Sign new contract
- 3. Upgrade production 20% increase in production capacity, costs £400 / year

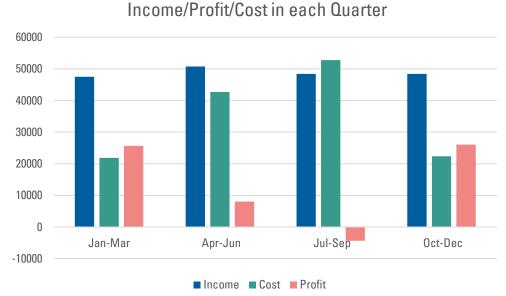
Future Scenario

- Prices of their products (for both contracts and for additional sales) will increase by 20%
- Demand for them will remain constant
- Production costs will increase by 5%

New contract	2.31	3.19	5.22	2.46
new price				
(£/kg)				

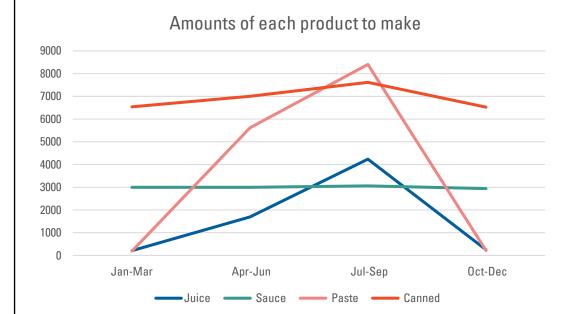
New profits for each decision

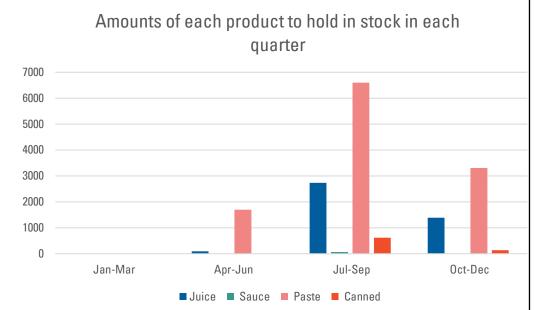




• £4300 loss in Q3

Best decision set

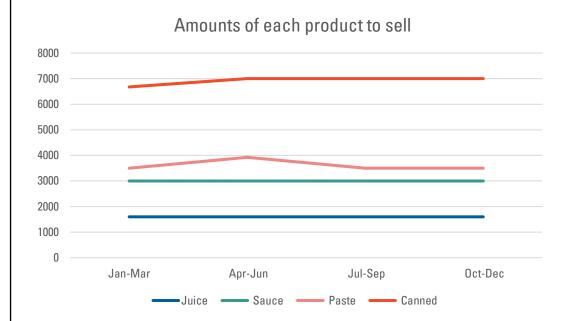


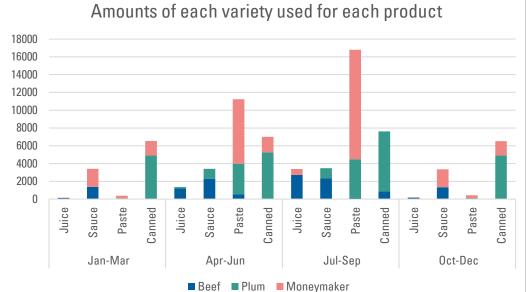


Paste production limited in Q3

Warehouse filled in Q3

Best decision set continued





- Paste sales exceed contracts in Q2
- Canned sales exceed contracts in all quarters
- Juice and Sauce meets both contracts

- All tomatoes other than the plum variety used up in all quarters
- Some plum tomatoes left available in Q3

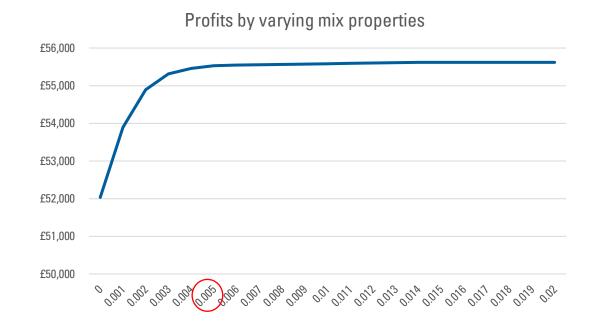
Profit increases for additional tomatoes

(£/kg)	Q1	Q2	Q3	Q4
Beef	3.47	2.28	2.65	3.32
Plum	0.57	0.02	-	0.45
Moneymaker	1.27	1.18	1.33	1.25

*More similar profit/loss analyses in the report

Varying mix properties

- The more the mix properties are varied, the less the profit increases (diminishing return)
- A mixing tolerance of 0.005 in the ratios (0.5%) would be adequate to increase profits by £3424.77 (+6.58%), while keeping an almost identical formulation
- Further changes could impact product quality for little financial reward



Possible future directions

Buying more tomatoes

Once this has been done, you could consider:

- Increasing demand through advertising campaigns
- Introduction of new products
- Obtaining new contracts/warehouses etc.

Thank you for your attention



Please feel free to ask any questions!