

# Mintec Analytics Differences between

# Cost & Weight Percentage Models

# /Example - Apple Pie

Here is the make up of the models discussed in this document.

	Series Used	Recipe Weight %	Cost % on 01/01/19	Cost % on 01/01/22
Apple	6V07	56%	81.17%	85.41%
Milling Wheat	WHTC	17%	3.19%	3.14%
Sugar	S14N	8%	4.40%	4.06%
Raisin	5U15	3%	9.53%	5.26%
Palm Oil	OR07	2%	1.71%	2.12%

This is how the above recipe would look in Mintec Analytics using a Weight Percent Model



This is how the above recipe would look in Mintec Analytics using a Cost Percent Model indexed to January 1st 2019



This is how the above recipe will look in Mintec Analytics using a Cost Percent Model indexed to January 1st 2022

Apple Pie US (cost % Jan 22)



# /Cost Percentage models

Cost Percentage models are also known as Cost Breakdown models.

For the apple pie example used, the highest weight of raw materials in the recipe are the apples (56% of the overall weight) and the flour (17%), but flour/wheat is a low-cost raw material. Therefore, the cost percent of the flour would make up around 3% of the total cost. The apples are a high-cost raw material and so they make up over 80% of the overall cost.

A cost % model uses the percent of the overall cost to add importance to each raw material

Cost Percentage models are expressed as an Index, therefore show only the percentage movement of the price over a period *not the final price*.

# /Cost % - Pros and Cons

#### Pros

- Easier to get the underlying information.
- A supplier would likely rather tell the buyer that apples are 80% of cost than state the actual weight used in its recipe.
- Inconvertible units (such as indexes, energy units etc) can be included in the model
- Less detail needed to include the other cost elements (such as energy, labour and transport)

#### Cons

- Can be too simplistic to get a truly accurate trend.
  They should be used as a guide to trend rather than price.
- Need to know what time period that cost % relates to.
- The set of what the period that cost % relates to.
- The cost percent changes depending on the price of the raw material.
- Only expressed as indexes percentage movements only
- Less available information produced by Mintec Analytics to understand all the different price movements

# /Weight Percentage models

#### Weight Percentage models are also known as a Should Cost models or COGS - Cost of Goods Sold.

From the example, we know the highest weight of raw materials in the apple pie recipe are apples and flour – making up 73% of the overall weight. These weightings don't change very much over time, unlike the cost percent.

#### A weight % model uses the percent of the overall weight to add importance to each raw material

Weight Percentage models are expressed as a *final price*, therefore showing what the product would cost. They can then be indexed in a dashboard to show the percentage price movement over a period.

### /Weight % - Pros and Cons

#### Pros

- You can be much more confident in the accuracy of the trend and price
- More information available in Mintec Analytics to understand how all the different commodities price movements are influencing the overall price (Model Breakdown).
- The time period is less relevant.
  - If the recipe hasn't changed the model will still reflect the accurate price, no matter how much the prices change.

#### Cons

- It is much harder to get this level of detail from a supplier
- Adding in labour, energy and transport is more complicated.
- You need to have very granular detail to relate it to an individual product
- Added detail on actual cost could cause some suppliers to argue more with the overall make up of the model

# /Conclusion

#### Which model type you choose will depend on

- Availability of underlying data
  - Do you have access to the actual recipe weightings? If not, would the supplier give that detail to you?
- Accuracy required
  - Do you need to know the final price or just the percentage movement overall?
  - Do you want to include other costs like energy, transport and labor?
- Use case of the model
  - Are you planning to use the model in a negotiation with a supplier? If so, are you negotiating on the actual final price or the percentage movement from a point in time
  - Are you using it with customers explaining why prices have risen? If so, you will probably need more detailed information to explain your argument

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