

MRP

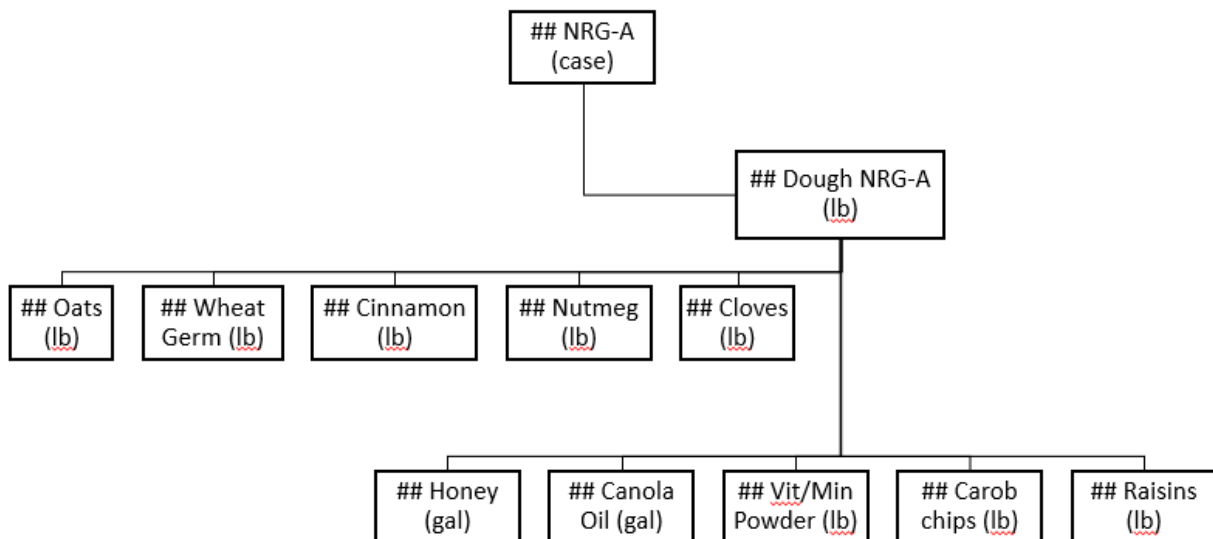
Exercise Introduction

Material resource planning is intended for 3 objectives:

- Ensure materials are available for production and products are available for delivery to customers.
- Maintain the lowest possible material and product levels in store to achieve LEAN processes.
- Plan manufacturing activities, delivery schedules and purchasing activities.

Bill of Material (BOM)

A critical input to the MRP process is the bill of material (BOM), which shows how components and semi-finished products are combined to produce the final product. A graphical representation of the BOM for the NRG-A bar is shown below:



The raw materials (Oats, Wheat Germ, etc.) are combined in a mixer to produce a 500 lb. batch of dough. The dough is then transferred to the baking line, where it is formed into bars, baked and packaged. For simplicity, we have ignored the wrappers, boxes and cases that are needed to produce a complete case of Fitter Snacker bars.

To view the BOMs for Fitter Snacker, follow the menu path:

Logistics > Production > Master Data > Bills of Material > Reporting > BOM Explosion > Material BOM > Multilevel BOM

MRP

Material BOM Edit Goto Extras Settings Environment System Help

Explode BOM: Multi-Level BOM: Initial Screen

Material: 00F100
 Plant: 00PT
 Alternative BOM: ☐
 BOM Application: PP01

Selection
 Valid From: 07/31/2008
 Change Number:
 Required qty:

Enter ##F100 for Material, ##PT for Plant and PP01 for BOM Application, then click on the execute (⏎) icon

Material BOM Edit Goto Extras Settings Environment System Help

Display Multilevel BOM

Material: 00F100
 Plant/Usage/Alt.: 00PT / 1 / 01
 Description: 00 NRG-A
 Base Qty (CS): 7.000
 Reqd Qty (CS): 7

| Level no. | Item | Qty | Component | Description | Unit | Reqd Qty | Unit | Unit |
|-----------|------|--------|-----------|-------------------|------|----------|------|------|
| ..1 | 0010 | 00S200 | | | | | | |
| ..2 | 0010 | 00R380 | | | | | | |
| ..2 | 0020 | 00R420 | | 00 Wheat Germ | | 50 | LB | L |
| ..2 | 0030 | 00R320 | | 00 Cinnamon | | 5 | LB | L |
| ..2 | 0040 | 00R370 | | 00 Nutmeg | | 2 | LB | L |
| ..2 | 0050 | 00R330 | | 00 Cloves | | 1 | LB | L |
| ..2 | 0060 | 00R360 | | 00 Honey | | 10 | GAL | L |
| ..2 | 0070 | 00R300 | | 00 Canola | | 7 | GAL | L |
| ..2 | 0080 | 00R410 | | 00 Vit/Min Powder | | 5 | LB | L |
| ..2 | 0090 | 00R310 | | 00 Carob Chips | | 50 | LB | L |
| ..2 | 0100 | 00R400 | | 00 Raisins | | 50 | LB | L |

This screen shows 7 cases of snack bars requires 500 lbs. of dough, and that to produce 500 lbs. of dough, 300 lbs. of Oats, 50 lbs. of Wheat Germ, etc. are required

This screen shows the recipe required for seven cases of dough. To learn more about any of the materials required to make an NRG-A bar, select the item and click on the detail icon.

With the nutmeg selected, click on the where-used icon (⏏), which will call up the following screen: