## Production Book

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MISSISSIPPI DEPARTMENT OF EDUCATION

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## IMPORTANT DISCLAIMER

-The following example is using the NSLP/SBP meal pattern
-This example is a High School (9-12)

## STEP 1

## Pre-Populate the Menu

Can be filled out months or weeks in advance

## PRE-POPULATE, But use a PENCIL!

## Menus and Recipes

Gather your Menu for the day, as well as ALL the recipes that you will be using for each menu item.
HINT: Having your MRS recipes on hand can make completing your production book MUCH easier!

## MENU for the Day (NSLP/SBP Meal Pattern)

Breakfast

- Sausage Biscuit (MRS 9170)
- Assorted Fruit Juice (MRS 6645)
- Canned Pears (MRS 6855)
- Milk (variety)


## Lunch

- Hamburger (MRS 4105)
- French fries (MRS 6110)
- Coleslaw (5685)
- had to sub in Green Beans (MRS 5745)
- Assorted Fruit Juice (MRS 6645)
- Apple (MRS 6500)
- Milk (variety)


## MRS Recipe Information - Sausage Biscuit

MRS: 9170 - Breakfast Combinations (8500s)

## SAUSAGE \& BISCUIT (1 0Z.) (WGR)

MEAL COMPONENT CONTRIBUTION:
$1 / 2 \mathrm{oz}$. eq. meat/meat alternate, 1 oz . eq. whole grain NUMBER OF PORTIONS: 100 SIZE OF PORTION: 1 biscuit and 1 sausage


RECIPE HACCP PROCESS: \#2 - Same day service

| INGREDIENT | MEASURE (FOR 100 SERVINGS) |
| :--- | :--- |
| Sausage Patty, Fully Cooked, \#1061 | 100 patties,$(1 / 4$ oz eq. $\mathrm{meat} / \mathrm{meat} \mathrm{alternate)}$ |
| Biscuit, WGR, 1 oz. eq., \#1231 | 100 biscuits- 1 grain |

NOTE: this is a combination food that counts as a meat/meat alternate and a grain.

## MRS Recipe Information - Juice

Source: MRS 2023

## ASSORTED FRUIT JUICES (SHELF STABLE)

MEAL COMPONENT CONTRIBUTION:
$1 / 2$ cup fruit juice
NUMBER OF PORTIONS: 96 SIZE OF PORTION: 4 ounce
carton


FRUITS
RECIPE HACCP PROCESS: \#1 - No cook

## MRS Recipe Information - Hamburger

Source: MRS 2021

## MEAL COMPONENT CONTRIBUTION:

2 oz. eq. meat/meat alternate, 2 oz . eq. whole grains NUMBER OF PORTIONS: 100 SIZE OF PORTION: 1 sandwich
RECIPE HACCP PROCESS: \#2 - Same day service

MRS: 4105 - Sandwiches (4000s)

## HAMBURGER



MEAT/MEAT ALTERNATE : WHOLE GRAINS

## MRS Recipe Information - French Fries

Source: MRS 2023
MRS: 6110 - Vegetables (5500s)

## CRINKLE CUT FRIES (BAKED)

## MEAL COMPONENT CONTRIBUTION:

$1 / 2$ cup starchy vegetable
NUMBER OF PORTIONS: 100 SIZE OF PORTION: $1 / 2$ cup
RECIPE HACCP PROCESS: \#2 - Same day service

## MRS Recipe Information - Apples

Source: MRS 2021
MRS: 6500 - Fruit (6500s)

## APPLE DELICIOUS (FRESH)

## MEAL COMPONENT CONTRIBUTION:

$1 / 2$ cup fruit
NUMBER OF PORTIONS: 100 SIZE OF PORTION: 2 apple
halves
RECIPE HACCP PROCESS: \#1 - No cook

## MRS Recipe Information - Green Beans

Source: MRS 2021
MRS: 5745 - Vegetables (5500s)

## SAVORY GREEN BEANS (CANNED)

## MEAL COMPONENT CONTRIBUTION:

$1 / 2$ cup other vegetable
NUMBER OF PORTIONS: 100 SIZE OF PORTION: $1 / 2$ cup
RECIPE HACCP PROCESS: \#2 - Same day service

## MRS Recipe Information - Canned Pears

Source: MRS 2021
MRS: 6855 - Fruit (6500s)

## CHILLED PEAR HALVES (CANNED)

MEAL COMPONENT CONTRIBUTION:
$1 / 2$ cup fruit
NUMBER OF PORTIONS: 100 SIZE OF PORTION: $1 / 2$ cup
RECIPE HACCP PROCESS: \#1 - No cook
FRUITS

Menu - Column 2

## Don't forget to include your recipe numbers!

| Date: 6/20/ | 2 |
| :---: | :---: |
| Participation | MENUS and Recipe Numbers |
| BREAKFAST SERVED: | BREAKFAST |
|  | Sausage Biscuit (9170) |
|  | Assorted Fruit Juice (6645) <br> Canned Pears (6855) |
| K-8 | Milk (Variety) |
| 9-12 |  |
| ADULTS PAID: |  |
|  | LUNCH |
| IN KIND: | Hamburger (4105) <br> French Fries (6110) <br> Coleslaw (5685) |
| TOTAL: | Assorted Fruit Juice (6645) <br> Apple (6500) <br> Milk (yariet) |

## STEP 2

## Planned Portions

Can be filled out months or weeks in advance

See how in this example we have purposefully separated student portions and adult portions?

We also realized that we didn't have the ingredients for coleslaw. Instead, green beans have been added to the menu.

| 中 Date: 6/20/ | 2 | 3a | 3b |
| :---: | :---: | :---: | :---: |
| Participation | MENUS and Recipe Numbers | Plan Ratas | $\begin{aligned} & \text { Xtra } \\ & \text { Ratom } \end{aligned}$ |
| BREAKFAST SERVED: | BREAKFAST |  |  |
|  | Sausage Biscuit (9170) | 100 | 5 |
|  | Assorted Fruit Juice (6645) | 75 | 5 |
|  | Canned Pears (6855) | 55 | 5 |
| K-8 | Milk (Variety) | 80 | 5 |
| 9-12 |  |  |  |
| ADULTS PAID: |  |  |  |
|  | LUNCH |  |  |
| IN KIND: | Hamburger (4105) | 150 | 10 |
|  | French Fries (6110) | 125 | 10 |
|  | Colestaw (5685) | 75 | 10 |
|  | Assorted Fruit Juice (6645) | 80 | 10 |
| TOTAL: | Apple (6500) | 50 | 10 |
|  | Milk (yariet) | 125 | 10 |
|  | Green Beans (5745) | 100 | 10 |

- Columns 3a and 3b require you to forecast. Proper forecasting can be a huge money saver!
- Analyze historical and actual selection data
- Consider seasonal changes
- Consider student preferences
- Consider kitchen equipment, space, and staff ability
- Cycle menus will allow you the best data for forecasting!


## STEP 3

## Items and Meal Type

Can be filled out months or weeks in advance

Colums 4, 5, \& 6

Because of the new final rule, the black bar for M/MA at breakfast has been removed! Record M/MA as a M/MA at breakfast now!



This is the bottom part of columns 4,5 , and 6 .

Note how combination foods are listed multiple times!

## STEP 4

## Contribution Size

Can be filled out months or weeks in advance

- This is probably the MOST important column
- This column proves to auditors that you understand and are following the meal pattern.
- You MUST use the correct units of measures in this column. When in doubt, consult your MRS recipe!
- Make sure that the MRS recipe you are using is up to date! Check MRS online at least every 6 months to reprint the current recipes.


## Use your recipes as a cheat sheet!

Source: MRS 2021

MEAL COMPONENT CONTRIBUTION:
$1 / 2$ cup other vegetable
NUMBER OF PORTIONS: 100 SIZE OF PORTION: $1 / 2$ cup
RECIPE HACCP PROCESS: \#2 - Same day service


$$
\begin{aligned}
& \text { Make sure you } \\
& \text { are putting the } \\
& \text { information in the } \\
& \text { correct age group } \\
& \text { column. }
\end{aligned}
$$

| FRUIT $\quad \begin{array}{lllllllllllllllllll}\text { F } & \mathbf{F} & \mathbf{F} & \mathbf{F} & \mathbf{F} & \mathbf{F} & \mathbf{F} & \mathbf{F} & \mathbf{F} & \mathbf{F} & \mathbf{F} & \mathbf{F} & \mathbf{F} & \mathbf{F} & \mathbf{F} & \mathbf{F} & \mathbf{F}\end{array}$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fruit Juice | X |  |  |  | 1/2C | 26 |
| Canned Pears | X |  |  |  | 1/2C | 27 |
| Assorted Fruit Juice |  | X |  |  | 1/2C | 28 |
| Apple |  | X |  |  | 1/2C | 29 |
|  |  |  |  |  |  | 30 |
|  |  |  |  |  |  | 31 |
|  |  |  |  |  |  | 32 |
|  |  |  |  |  |  | 33 |
|  |  |  |  |  |  | 34 |
|  |  |  |  |  |  | 35 |
| GRAINS G G G G G | G | G | G G | G | G G G G |  |
| Biscuit | X |  |  |  | 1 oz | 36 |
| Hamburger Bun |  | X |  |  | 2 oz | 37 |
|  |  |  |  |  |  | 38 |
|  |  |  |  |  |  | 39 |
|  |  |  |  |  |  | 40 |
|  |  |  |  |  |  | 41 |
|  |  |  |  |  |  | 42 |
|  |  |  |  |  |  | 43 |
|  |  |  |  |  |  | 44 |
|  |  |  |  |  |  | 45 |

## - The serving sizing are shown in column 8.

## MOVING IN TO POST-PRODUCTION SECTION!

Everything we've done up to this point can be prepopulated. Now we are going to discuss the stuff you can't complete until after the meal has been prepared and served.


## STEP 5

## Portions Prepared

This cannot be completed until after the Meal Service

Columns 9, 10a, \& 11

- You might have had some leftovers from previous services that you could add to today's total
- Leftovers - column 9
- Portions prepared - column 10a
- Total portions - column 11

|  | 9LeftoverPortions UsedToday | Food Prepared Today |  | 11Portions <br> Prepared <br> $(9+10 a)$ | 12 | 13 | 14 | 15 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Portions Served | Portions Stored | Portions Discarded | Comments |
|  |  | \# Portions | Lbs. $\operatorname{cns}^{2}$ Ea Etc... |  |  |  |  |
|  | M/MA M/MA M/MA M/MA M/MA M/MA M/MA M/MA M/MA M/MA M/MA |  |  |  |  |  |  |
| 1 | 0 | 105 | 105 items | 105 |  |  |  |  |  |
| 2 | 0 | 160 | 160 items | 160 |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |  |
|  | v v V | X X V | X X X | X X | X X | V X | x X X |  |
| 14 | 0 | 135 | $16 \mathrm{lb}, 14 \mathrm{oz}$ | 135 |  |  |  |  |
| 15 | 0 | 110 | 2.5 \#10 can | 110 |  |  |  |  |
| 16 |  |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |

Columns 9, 10a, \& 11

- Columns 9, 10a, and 11 continued.
- Items:
- 26: Fruit Juice
- 27: Canned Pears
- 28: Assorted Fruit Juice
- 29: Apple
- 36: Biscuit
- 37: Hamburger Bun



## STEP 6

## Quantity of Food Product

This cannot be completed until after the Meal Service

- This column proves to auditors that you are following your menus and using the correct quantities of food to prepare each recipe and portion.
- This column can require you to do some math!


## Let's pull those recipes back out!

Source: MRS 2021

MEAL COMPONENT CONTRIBUTION:
2 oz. eq. meat/meat alternate, 2 oz. eq. whole grains
NUMBER OF PORTIONS: 100 SIZE OF PORTION: 1 sandwich
RECIPE HACCP PROCESS: \#2 - Same day service

## MRS: 4105 - Sandwiches (4000s)

## HAMBURGER



MEAT/MEAT ALTERNATE: WHOLE GRAINS

| INGREDIENT | MEASURE(FOR 100 SERVINGS) |
| :--- | :--- |
| Beef Pattie, Broiled, 2 oz. eq., \#1002 | 100 patties |
| Bun, Hamburger, WGR, \#1228 | 100 buns |
| Lettuce, Shredded, \#4008 | 2 pounds |
| Tomatoes, Whole, Red, Ripe, Raw, \#4110 | $121 / 2$ medium, whole , (medium, 2-3/5" <br>  <br> diameter) |
| Pickles, Dill Slices, \#2813 | 200 slices |

You need to look at the recipe to determine what unit of measure you will use for column 10b. You will see that for this recipe, we are looking at "patties" as a unit of measure. It could also be "pounds" or "cans" depending on the product.

## Let's do some math!

## CRINKLE CUT FRIES (BAKED)

MEAL COMPONENT CONTRIBUTION:
$1 / 2$ cup starchy vegetable
NUMBER OF PORTIONS: 100 SIZE OF PORTION: $1 / 2$ cup
RECIPE HACCP PROCESS: \#2 - Same day service


VEGETABLES (STARCHY)

| INGREDIENT | MEASURE (FOR $\mathbf{1 0 0}$ SERVINGS) |
| :--- | :--- |
| Potatoes, French Fries, Crinkle Cut, \#1616 | 12 pounds +8 ounces |
| Pan Release Spray, Vegetable Oil, \#2514 | 20 second spray |
| Salt, Table, \#2723 | 2 tablespoons |

For our french fry example, we are looking at Pounds of potatoes. So we have to do some math. This recipe makes 100 portions. But we need 135 portions. Calculations are needed to determine that we $16 \mathrm{lb}, 14 \mathrm{oz}$ of potatoes to make 135 portions.

Calculation - How many pounds of potatoes do I need?


## BLANK - Calculation Template

| Formula | A | $\mathbf{x}$ | B | $=$ | D |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Steps | Purchase <br> unit for <br> recipe <br> servings | $\mathbf{x}$ | Number of <br> servings <br> needed | $\div$ | Number of <br> portions in <br> recipe | $=$Quantity needed for <br> recipe |
| Lists |  |  |  |  |  | $=$ |
| Compute |  |  |  |  |  |  |


| 圷 | $\qquad$ 9 Leftover Portions Used Today | 10a | 10b | 11 | 12 | 13 | 14 | 15 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Food Prepared Today |  | Portions Prepared ( $9+10 a$ ) | Portions Served | Portions Stored | Portions Discarded | Comments |
|  |  | \# Portions | Lbs. Cos Ea. Etc... |  |  |  |  |  |
|  | M/MA M/MA M/MA M/MA M/MA M/MA M/MA M/MA M/MA M/MA M/MA |  |  |  |  |  |  |  |
| 1 | 0 | 105 | 105 items | 105 |  |  |  |  |
| 2 | 0 | 160 | 160 items | 160 |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| 14 | 0 | 135 | $16 \mathrm{lb}, 14 \mathrm{oz}$ | 135 |  |  |  |  |
| 15 | 0 | 110 | 2.5 \#10 can | 110 |  |  |  |  |
| 16 |  |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |

## The math for this part can be challenging. Usually, the nutrient analysis software system you are using will do these calculations for you!

## STEP 7

## Portions Served

This cannot be completed until after the Meal Service

## 1: Sausage Patty

2: Hamburger Patty
14: French Fries
15: Green Beans

|  | - 9 | 10a 10b |  | 11 | 12 | 13 | 14 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Leftover | Food Prepa | pared Today | Portions |  |  |  |
|  | Portions Used Today | \# Portions | Lbs. Cns= Ea. Etc... | Prepared $(9+10 a)$ | Served | Stored | Discarded |
|  | $\begin{array}{llllllllllllll}\text { M/MA } & \text { M/MA } & \text { M/MA } & \text { M/MA } & \text { M/MA } & \text { M/MA } & \text { M/MA } & \text { M/MA }\end{array}$ |  |  |  |  |  |  |
| 1 | 0 | 105 | 105 items | 105 | 100 |  |  |
| 2 | 0 | 160 | 160 items | 160 | 150 |  |  |
| 3 |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| 14 | 0 | 135 | $16 \mathrm{lb}, 14 \mathrm{oz}$ | 135 | 135 |  |  |
| 15 | 0 | 110 | 2.5 \#10 can | 110 | 100 |  |  |
| 16 |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |

- Column 12(Portions served) continued.
- Items:

26: Fruit Juice
27: Canned Pears
28: Assorted Fruit
Juice
29: Apple
36: Biscuit
37: Hamburger
Bun


## STEP 8

What happens to your Leftovers?
This cannot be completed until after the Meal Service

- Stored or Discarded?
- Remember, if you add up your portions served plus stored/discarded, it SHOULD equal the total number of portions prepared.
- C12 + C13 + C14 = C11
- Food doesn't just disappear!

|  | 9 <br> Leftover <br> Portions Used <br> Today | 10a 10b |  |  |  | $13 \quad 14$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Food Prepared Today |  |  |  |  |  |
|  |  | \# Portions | Lbs. Cns Ea. Etc.. |  |  | Portions Stored | ${ }_{\text {Porcaions }}$ |
|  | M/MA M/MA M/MA |  | M/MA M/MA | M/MA M/MA M/MA |  | M/MA M/MA | M/MA |
| 1 | 0 | 105 | 105 items | 105 | 100 |  | 5 |
| 2 | 0 | 160 | 160 items | 160 | 150 |  | 10 |
| 3 |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |
|  | v v X | y x - | \% X - | V X | X X X | x x V | x x y |
| 14 | 0 | 135 | $16 \mathrm{lb}, 14 \mathrm{oz}$ | 135 | 135 |  | 0 |
| 15 | 0 | 110 | 2.5 \#10 can | 110 | 100 |  | 10 |
| 16 |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |

- Columns 13 (Stored) and 14(Discarded) continued.
- Items:
- 26: Fruit Juice
- 27: Canned Pears
- 28: Assorted Fruit Juice
- 29: Apple
- 36: Biscuit
- 37: Hamburger Bun



## STEP 9

## Comments/Additional Foods

This cannot be completed until after the Meal Service

You could put literally anything you want in comments section. Anything unusual happen this day? Bad weather cause low participation? COVID outbreak? Sent sack lunches out on a bus? MUST record supply chain issue substitutions!


## Additional Foods

## Additional Foods:

## Jelly

HB Trimmings
Mayo/Mustard/Ketchup


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## STEP 10

Milk
This cannot be completed until after the Meal Service

## Milk



You must put numbers here, not check marks!
Must be broken down by type of milk and meal service
You will have to count your coolers before/after every service to get an accurate count.

## In NSLP/SBP, you need to offer a choice of milk types/flavors

## STEP 11

## Participation

This cannot be completed until after the Meal Service

## Even though it is labeled Column 1" --it is actually the very last thing you do!

| Participation | LUNCHES SERVED: |
| :---: | :---: |
| BREAKFAST | K-5 |
| SERVED: | 6-8 |
| K-5 |  |
| 6-8 | 9-12_155 |
| K-8 |  |
| $9-12 \ldots 110$ | ADULTS PAID |
| ADULTS <br> PAID: | INKIND |
| - | 10 |
| IN KIND: $5$ | TOTAL $\qquad$ 165 |
| TOTAL: <br> _115 |  |

# FINAL PRODUCT 

You did it! That wasn't so hard was it? Departmentof
EDUCATION


## What Questions do you have?



# Chris Salley <br> Program Specialist 

## Betsy Redfern Pennington

Lead Registered Dietitian Nutritionist

## Non-Discrimination



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