



# Hypothetical Meals

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## Format

The format of the file will be **CSV** (Comma Separated Value). This will allow users to easily create files from spreadsheet applications such as Excel and Google Sheets by “export as .csv file” functionality. This will provide an enjoyable experience for the user, as it requires low difficulty and has popular software programs that support this format. It will also allow existing spreadsheets (as stated in the Evolution 1 Introduction) to be used for import, as the format is likely easy to replicate from existing spreadsheets.

## Inputs

Headers (correspond to fields below)

- INGREDIENT
- PACKAGE
- AMOUNT (LB)
- PRICE PER PACKAGE
- TEMPERATURE
- VENDOR FREIGHT CODE

## Fields

- *Ingredient* - unique name of the **new** ingredient being added.
- *Package* - choice of “sack”, “pail”, “drum”, “supersack”, “truckload”, or “railcar”.
- *Amount (lbs)* - integer number of pounds of the ingredient. (The Blubs choose to ignore this value. See Req 3 below)
- *Price Per Package* - positive, decimal value - specified up to hundredths place.
- *Temperature* - choice of “**frozen**”, “**refrigerated**” or “**room temperature**”.
- *Vendor Freight Code* - alphanumeric freight code for an existing Vendor.

## Requirements and other specifications

1. Imported **Vendors** must already be **pre-existing** in the database;
2. Imported Ingredients do **NOT** have to be pre-existing, but can also already be in the database.
3. Bulk format upload is only used to add ingredients, not to add stock.
4. The import action shall only occur if the entire input is **free of name conflicts** or otherwise **problematic issues**; if such issues arise, the precise nature of the error should be presented to the administrator in enough detail that it can be corrected.
  - a. Problematic issues include vendor doesn't exist, capacity would be exceeded by bulk import, etc.
5. All fields are **case insensitive**
6. Character encoding is in **UTF-8**.
7. Price per package must be a positive value, specified up to the hundredths place.

8. If commas are within any field, the field will be **double quoted** by the CSV format to allow for proper parsing.
9. A double-quote appearing inside a field must be escaped by preceding it with another double quote. (e.g. "aaa","b""bb","ccc")
10. The file could take either CRLF or LF as line breaks, but the choice of line break through a particular file should be consistent. Any occurrence of CRLF or LF MUST represent a line break. Use of CR and LF outside of line break sequences is forbidden.

## Examples

### Excel Representation

INGREDIENT	PACKAGE	AMOUNT (LBS)	PRICE PER PACKAGE	VENDOR FREIGHT CODE	TEMPERATURE
Ingredient1	Package	Amount (lbs)	Price Per Package	Vendor Freight Code	Temperature
Ingredient1	Package	Amount (lbs)	Price Per Package	Vendor2 Freight Code	Temperature
Ingredient2	Package	Amount (lbs)	Price Per Package	Vendor Freight Code	Temperature
Ingredient3	Package	Amount (lbs)	Price Per Package	Vendor2 Freight Code	Temperature
Ingredient4	Package	Amount (lbs)	Price Per Package	Vendor Freight Code	Temperature
Ingredient5	Package	Amount (lbs)	Price Per Package	Vendor3 Freight Code	Temperature
Ex.					
INGREDIENT	PACKAGE	AMOUNT (LBS)	PRICE PER PACKAGE	VENDOR FREIGHT CODE	TEMPERATURE
Carrots, pail	pail	89	20.15	DF2CK21	room temperature
Carrots, pail	pail	45	16.89	JK878DC	room temperature
Carrots - railcar	railcar	24690	4000	DF2CK21	room temperature
Apples - supersack	supersack	60	69.32	JK878DC	frozen
Potatoes - drum	drum	129	32.1	DF2CK21	refrigerated
Potatoes, sack	sack	55	6.01	KDC322D	refrigerated

### CSV Output from Excel

#### Format

```

INGREDIENT,PACKAGE,AMOUNT (LBS),PRICE PER PACKAGE,VENDOR FREIGHT
CODE,TEMPERATURE
Ingredient1,Package,Amount (lbs),Price Per Package,Vendor Freight
Code,Temperature
Ingredient1,Package,Amount (lbs),Price Per Package,Vendor2 Freight
Code,Temperature
Ingredient2,Package,Amount (lbs),Price Per Package,Vendor Freight
Code,Temperature
Ingredient3,Package,Amount (lbs),Price Per Package,Vendor2 Freight
Code,Temperature
Ingredient4,Package,Amount (lbs),Price Per Package,Vendor Freight
Code,Temperature

```

Ingredient5,Package,Amount (lbs),Price Per Package,Vendor3 Freight  
Code,Temperature

### Example

INGREDIENT,PACKAGE,AMOUNT (LBS),PRICE PER PACKAGE,VENDOR FREIGHT  
CODE,TEMPERATURE

"Carrots, pail",pail,89,20.15,DF2CK21,room temperature

"Carrots, pail",pail,45,16.89,JK878DC,room temperature

Carrots - railcar,railcar,24690,4000,DF2CK21,room temperature

Apples - supersack,supersack,60,69.32,JK878DC,frozen

Potatoes - drum,drum,129,32.1,DF2CK21,refrigerated

"Potatoes, sack",sack,55,6.01,KDC322D,refrigerated