# Lemonade Stand Stock Conditions & Ideal weather, recipes and prices

## Stock Item Costs

**Lemons Price range:** $0.30 - $0.60  
**Sugar Bags Price range:** $1.60 - $3.20  
**Ice Price range:** $1.10 - $2.20

On the start of everyday a random price is generated for each of the stock items within the minimum and maximum price range.

1 Bag of ice hold 60 cubes. 1 cup of ice hold 6 cubes.

## Stock Rules

Each day after every customer, the store will have a random chance of lemons, sugar or lemonade being destroyed. There following will apply

* A 20% chance of a random amount of sugar cups being infested by ants
* A 5% chance of a random amount of sugar being infested by a rodent
* A 20% chance of 1 to 6 cups being knocked over by a kid
* A chance equal to (temperature/2) of 1 to 5 lemons going off if the temperature is 20 degrees or higher
* If there is rain then there will not be any ants but the chance of a rodent will be increased to 20%

**General Weather Rules**

* Customers are more likely to arrive on days that are in ideal temperature range (20-29 degrees). If it is greater than 29 or less than 20, customers will appear less frequently.
* Customers will also be less likely to appear if it is raining
* The hotter the temperature is, the more money customers will be willing to pay for a glass
* The hotter the temperature is, the more ice that is required in your recipe in order for it to be ideal
* The more reasonable the temperature of the weather, the more customers that will appear
* If the price is high, customers will be more likely to buy more glasses of lemonade if it contains a greater quantity of both lemons and sugar
* If there is a low quantity of both lemons and sugar in the recipe then the customer will not be willing to pay as much for more glasses

**Specific weather rules**

* The temperature is mild if it is less than 20 degrees
* The temperature is warm if it is between and 20 and 29 degrees
* The temperature is hot if it is between and 30 and 39 degrees
* The temperature is very hot if it is 40 or higher
* **Customer frequency**
  + Every seconds if it is mild
  + Every seconds if it is warm
  + Every seconds if it is hot
  + Every seconds if it is cold

**Customer Price Fussiness**

* Every time a customer arrives a random number between 0 and 99 will be generated to determine how much they are willing to pay for one glass.
  + If the cheapness is 0 they will pay up to $1.00
  + If the cheapness is 99 they will pay up to $2.00
* The formula for the maximum price a customer will pay = 1.00 + (cheapness \* 0.01)
* Exceptions will apply for hot days and cold days

**Customer Recipe Preference**

* Every time a customer arrives they will have a random number between 0 and 4 for the preference on the taste of the lemonade.  
  0 = sour, 1 = sour & standard, 2 = standard only, 3 = standard & sweet, 4 = sweet.
* The lemonade has a 7 different sour and sweetness ratings depending on how many lemons and cups of sugar are in it. They are very sour, somewhat sour, slightly sour, standard, slightly sweet, somewhat sweet, very sweet
* The customer will only buy the lemonade if the recipe falls into the correct sour and sweetness range.
  + Customers with a value of 0 will buy somewhat sour and slightly sour lemonade
  + Customers with a value of 1 will buy somewhat sour, slightly sour and standard lemonade
  + Customers with a value of 2 will buy slightly sour, standard and slightly sweet lemonade
  + Customers with a value of 3 will buy standard, slightly sweet and somewhat sweet lemonade
  + Customers with a value of 4 will buy slightly sweet and somewhat sweet lemonade
  + Lemonade that is very sour or very sweet will not be bought by anyone

**Recipe Sweet and Sour Conditions**

* The recipe is very sour if
  + The number of lemons is more than 3 times the number of sugar cups
  + There is no sugar in the recipe
* The recipe is sour if
  + The number of lemons is 2.5 times to 3 times the number of sugar cups
* The recipe is slightly sour if
  + There is more than 2 times as many lemons as sugar but less than 2.5 times the amount
* The recipe is standard if
  + There are twice the number of lemons as sugar cups
* The recipe is slightly sweet if
  + There is less than double the number of lemons as sugar but at least 1.5 times the amount
* The recipe is sweet if
  + The is 1 to 1.49 times as many lemons as sugar
* The recipe is very sweet if
  + There is more sugar cups than lemons
  + There is less than 2 lemons in the recipe

**Lemonade Temperature conditions**

* The recipe is very cold if
  + There are 5 or more cubes of ice in each cup
* The recipe is cold if
  + There are 4 cubes of ice in each cup
* The recipe is ideal if
  + There are 3 cubes of ice in each cup
* The recipe is slightly warm if
  + There are 2 cubes of lemonade in each cup
* The recipe is warm if
  + There is 1 cube of lemonade in each cup
* The recipe is very warm
  + There are no cubes of ice in each cup

**Stock Loss while making lemonade**

* When lemons are used 10-20% of what was used will go bad
* When sugar is used 5-10% of what was used will get infested by a rodent
* When ice is used 50% of what was used will melt.