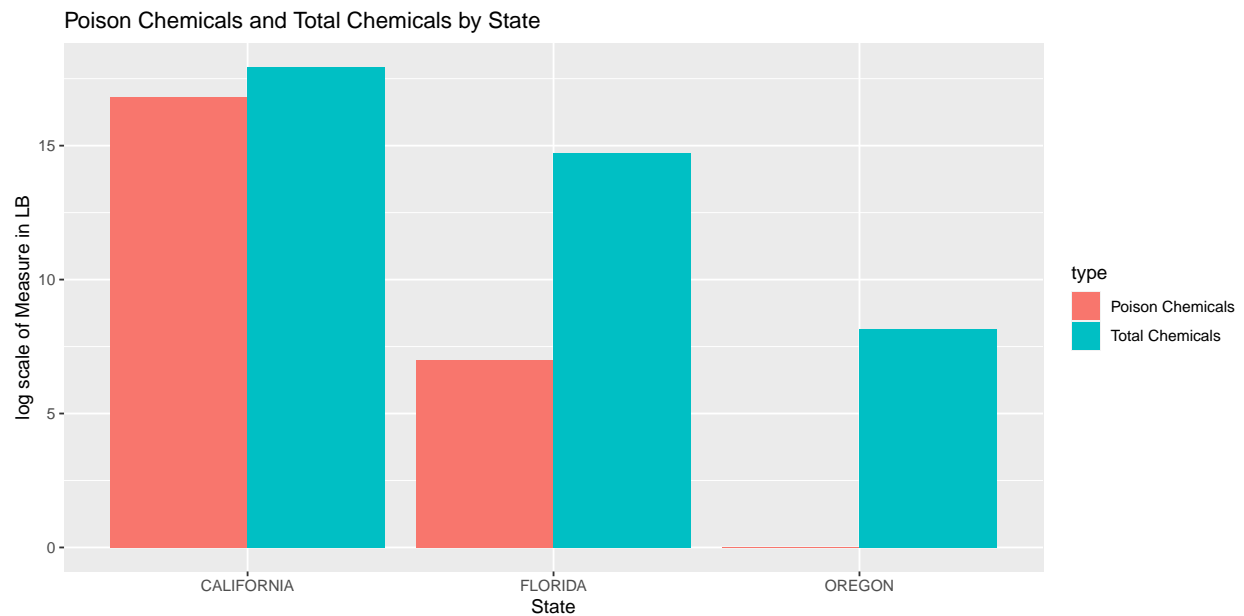


# Midterm Project

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## Poison Chemicals



From this plot, The California high weight of poison chemicals than other State, the Oregon almost did not use poison chemicals. Although the Florida use the poison chemicals, they only use about 0.45%. From percent\_posion\_state table, over 30 percent chemicals using in CA is poison chemicals which is risky for human health.

```
## 'summarise()' has grouped output by 'State'. You can override using the  
## '.groups' argument.
```

Table 1: Total Posion Chemicals Using by State

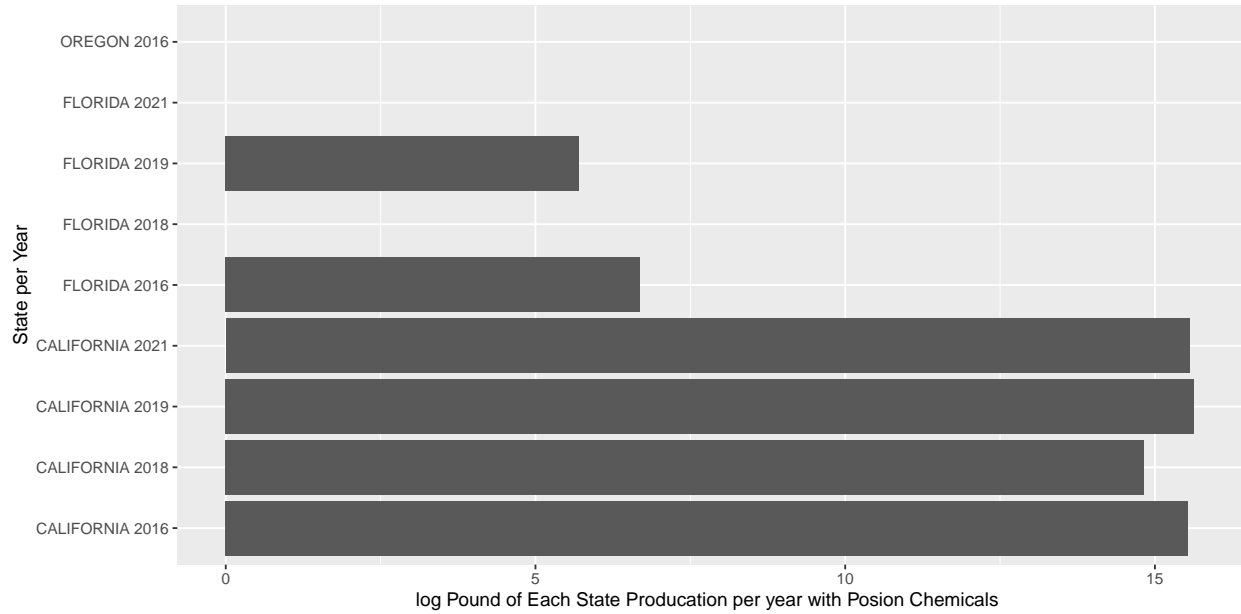
State	LB_sum
CALIFORNIA	20,192,300
FLORIDA	1,100
OREGON	0

Table 2: Percentage Poison Chemicals by State

State	LB_sum	Total_LB	Percent_posion
CALIFORNIA	20,192,300	61,733,100	0.327
FLORIDA	1,100	2,466,300	0.000
OREGON	0	3,500	0.000

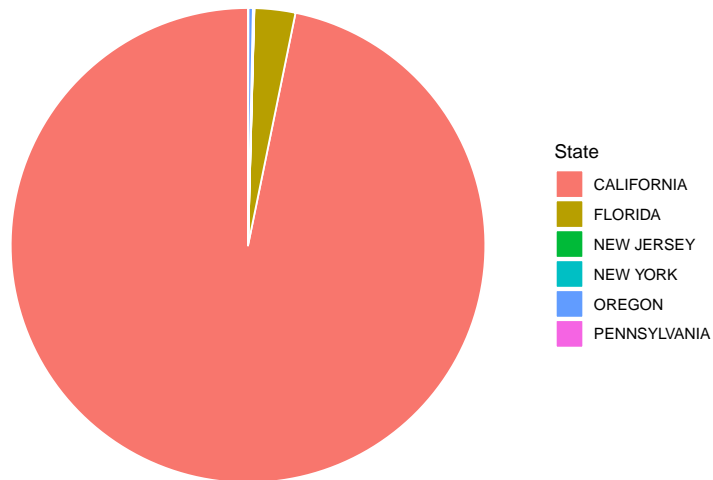
Table 3: Total Strawberry Production by State in Pound

State	LB
CALIFORNIA	344,780,500
FLORIDA	9,910,000
NEW JERSEY	31,900
NEW YORK	327,200
OREGON	1,094,800
PENNSYLVANIA	62,600



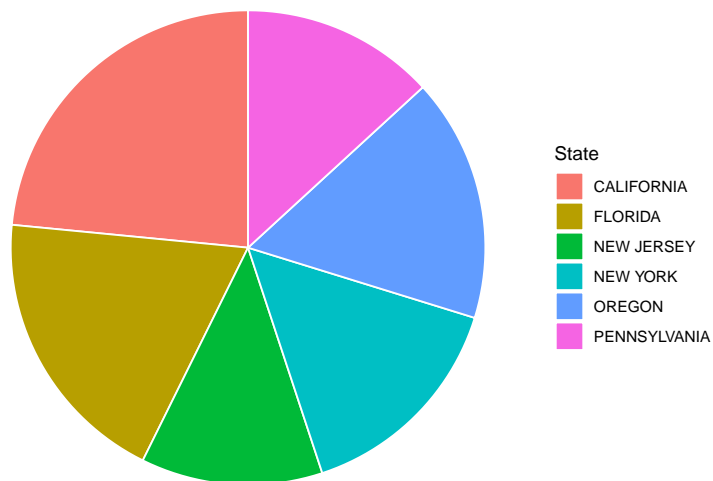
In this Plot, from 2016 to 2021, the poison chemicals application in California still maintain at very high levels. Compared to California, the poison chemicals application in Florida is much lower than California and in 2021 the Florida did not use posion chemicals at all. Meanwhile, I find the quantity of California strawberry is extremely higher than others States, based on two plots, so in next I would like find the proportion of strawberry quantity by State.

Total Strawberries Production in Pound by State



This Pi plot responds to my previous opinion, in this data sets, the California produce over 90% Strawberry. From my percentage poison chemicals by State, there are 20192300 LB strawberry may harm human health. Therefore, there are at least 6% strawberry produced in California, which are harmful.

Total Strawberries Production in Pound by State



This last figure, I log the value of production of strawberry in order to find the proportion of other State without California. This Pi chart show the Florida production is relatively higher than other states. Others production is closes with each others beside California.

