In [185]:
```
import pandas as pd
import matplotlib.pyplot as plt
import numpy as np

%matplotlib inline
```

Open File and read the fie

In [129]:
```
file = "Data4prediction.txt"
f = open(file,"r")
print(f.read())
data = f.read()
```

```
"477" 213.37575
"478" 212.415
"479" 215.4135
"480" 212.715
"481" 209.985
"482" 210.69825
"483" 211.485
"484" 211.32375
"485" 211.31175
"486" 210.5985
"487" 209.259
"488" 211.0695
"489" 213.39075
"490" 213.99975
"491" 213.71025
"492" 213.822
"493" 211.91025
"494" 214.242
"495" 212.5665
"496" 212.172
```

Data shape

In [187]:
```
da = pd.read_fwf(file, sep=" ", header=None)
##print(da)

display(da)
```

	0
0	"x"
1	"1" 207.29325
2	"2" 207.84
3	"3" 205.962
4	"4" 205.96125
...	...
740	"740" 213.0622
741	"741" 211.6732
742	"742" 214.1535
743	"743" 213.8527
744	"744" 211.2

745 rows × 1 columns

In [188]:
```
da[0][500]
```

Out[188]:
```
'"500" 213.141'
```

looping through the data

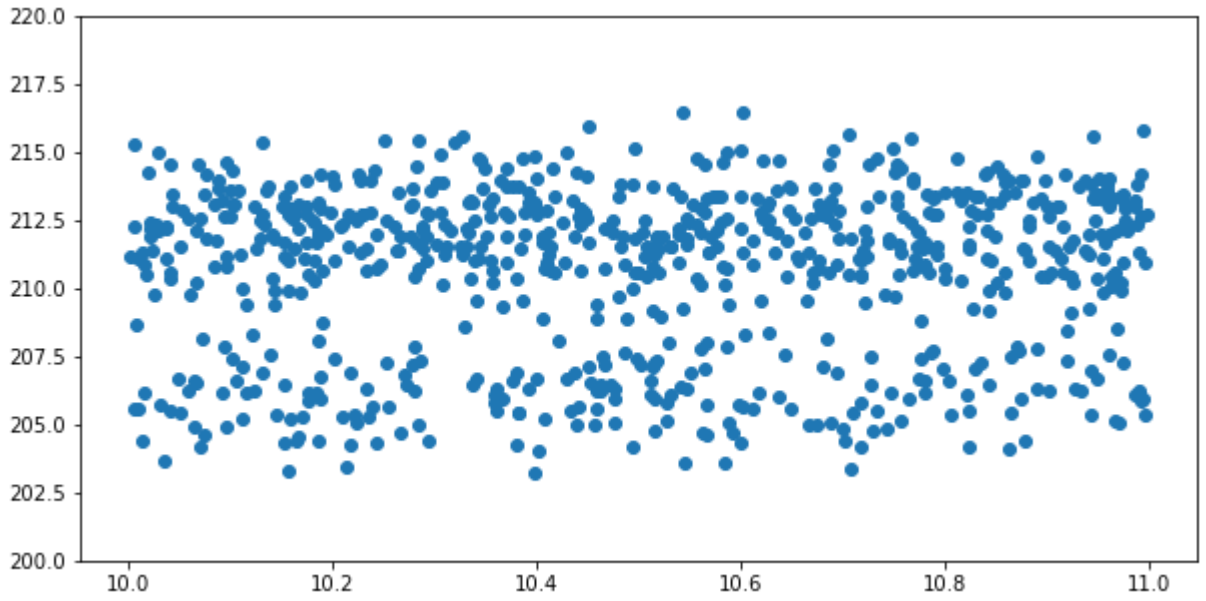
In [189]:
```
data_array = [len(da)]
for i in da:
    data_array.append(da[0].str.split())
    print(da[0].str.split())
```

```
0                  ["x"]
1       ["1", 207.29325]
2          ["2", 207.84]
3         ["3", 205.962]
4       ["4", 205.96125]
             ...
740    ["740", 213.0622]
741    ["741", 211.6732]
742    ["742", 214.1535]
743    ["743", 213.8527]
744       ["744", 211.2]
Name: 0, Length: 745, dtype: object
```

In [190]:
```
new_data_array = [len(da)]
for i in range(1, len(da)-1):
    j = 0
    for j in range(0, len(data_array[1][i])-1):
        new_data_array.append(data_array[1][i][j+1])
        ##print("Key: {:<3} Value: {:<8}".format(data_array[1][i][j],data_array[1
```

plot the data

In [191]:
```
plt.figure(figsize=(10,5))
plt.scatter((np.random.rand(1,len(new_data_array))+10)[0], new_data_array)
plt.ylim(200, 220);
```



In [ ]:

In [ ]: