```python
In [1]: from google.colab import drive
        drive.mount('/content/MyDrive/')
```

```
Drive already mounted at /content/MyDrive/; to attempt to forcibly remou
nt, call drive.mount("/content/MyDrive/", force_remount=True).
```

```python
In [2]: import pandas as pd
        import numpy as np
        import matplotlib.pyplot as plt
        import seaborn as sns
        pd.set_option('display.max_columns',None)
        pd.set_option('display.max_rows',None)
        %matplotlib inline
```

```python
In [3]: data = pd.read_csv('/content/MyDrive/MyDrive/Walmart_Store_sales.csv')
```

```python
In [4]: data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 6435 entries, 0 to 6434
Data columns (total 8 columns):
 #   Column        Non-Null Count  Dtype
---  ------        --------------  -----
 0   Store         6435 non-null   int64
 1   Date          6435 non-null   object
 2   Weekly_Sales  6435 non-null   float64
 3   Holiday_Flag  6435 non-null   int64
 4   Temperature   6435 non-null   float64
 5   Fuel_Price    6435 non-null   float64
 6   CPI           6435 non-null   float64
 7   Unemployment  6435 non-null   float64
dtypes: float64(5), int64(2), object(1)
memory usage: 402.3+ KB
```

```python
In [5]: data.isnull().any()
```

```
Out[5]: Store           False
        Date            False
        Weekly_Sales    False
        Holiday_Flag    False
        Temperature     False
        Fuel_Price      False
        CPI             False
        Unemployment    False
        dtype: bool
```

In [6]:
```python
data.sample(4)
```

Out[6]:

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
5463	39	27-08-2010	1417515.93	0	84.31	2.619	210.329211
5065	36	01-04-2011	385672.11	0	67.31	3.529	213.577670
1909	14	21-01-2011	1743188.87	0	30.55	3.229	182.919337
1281	9	21-09-2012	533756.88	0	69.92	3.721	226.559914

In [7]:
```python
data['Date'] = pd.to_datetime(data.Date,format='%d-%m-%Y')
```

In [8]:
```python
data.head()
```

Out[8]:

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI	Un
0	1	2010-02-05	1643690.90	0	42.31	2.572	211.096358	
1	1	2010-02-12	1641957.44	1	38.51	2.548	211.242170	
2	1	2010-02-19	1611968.17	0	39.93	2.514	211.289143	
3	1	2010-02-26	1409727.59	0	46.63	2.561	211.319643	
4	1	2010-03-05	1554806.68	0	46.50	2.625	211.350143	

In [9]:
```python
data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 6435 entries, 0 to 6434
Data columns (total 8 columns):
 #   Column        Non-Null Count  Dtype
---  ------        --------------  -----
 0   Store         6435 non-null   int64
 1   Date          6435 non-null   datetime64[ns]
 2   Weekly_Sales  6435 non-null   float64
 3   Holiday_Flag  6435 non-null   int64
 4   Temperature   6435 non-null   float64
 5   Fuel_Price    6435 non-null   float64
 6   CPI           6435 non-null   float64
 7   Unemployment  6435 non-null   float64
dtypes: datetime64[ns](1), float64(5), int64(2)
memory usage: 402.3 KB
```

```
In [10]: for column in data:
             print(f'{column}: {data[column].unique()}')
             print(f'Total No.of unique value : {data[column].nunique()}')
             print('********************************************************')
```

```
Store: [ 1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 2
2 23 24
 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45]
Total No.of unique value : 45
*********************************************************
Date: ['2010-02-05T00:00:00.000000000' '2010-02-12T00:00:00.000000000'
 '2010-02-19T00:00:00.000000000' '2010-02-26T00:00:00.000000000'
 '2010-03-05T00:00:00.000000000' '2010-03-12T00:00:00.000000000'
 '2010-03-19T00:00:00.000000000' '2010-03-26T00:00:00.000000000'
 '2010-04-02T00:00:00.000000000' '2010-04-09T00:00:00.000000000'
 '2010-04-16T00:00:00.000000000' '2010-04-23T00:00:00.000000000'
 '2010-04-30T00:00:00.000000000' '2010-05-07T00:00:00.000000000'
 '2010-05-14T00:00:00.000000000' '2010-05-21T00:00:00.000000000'
 '2010-05-28T00:00:00.000000000' '2010-06-04T00:00:00.000000000'
 '2010-06-11T00:00:00.000000000' '2010-06-18T00:00:00.000000000'
 '2010-06-25T00:00:00.000000000' '2010-07-02T00:00:00.000000000'
 '2010-07-09T00:00:00.000000000' '2010-07-16T00:00:00.000000000'
 '2010-07-23T00:00:00.000000000' '2010-07-30T00:00:00.000000000'
 '2010-08-06T00:00:00.000000000' '2010-08-13T00:00:00.000000000'
 '2010-08-20T00:00:00.000000000' '2010-08-27T00:00:00.000000000'
 '2010-09-03T00:00:00.000000000' '2010-09-10T00:00:00.000000000'
 '2010-09-17T00:00:00.000000000' '2010-09-24T00:00:00.000000000'
 '2010-10-01T00:00:00.000000000' '2010-10-08T00:00:00.000000000'
 '2010-10-15T00:00:00.000000000' '2010-10-22T00:00:00.000000000'
 '2010-10-29T00:00:00.000000000' '2010-11-05T00:00:00.000000000'
 '2010-11-12T00:00:00.000000000' '2010-11-19T00:00:00.000000000'
 '2010-11-26T00:00:00.000000000' '2010-12-03T00:00:00.000000000'
 '2010-12-10T00:00:00.000000000' '2010-12-17T00:00:00.000000000'
 '2010-12-24T00:00:00.000000000' '2010-12-31T00:00:00.000000000'
 '2011-01-07T00:00:00.000000000' '2011-01-14T00:00:00.000000000'
 '2011-01-21T00:00:00.000000000' '2011-01-28T00:00:00.000000000'
 '2011-02-04T00:00:00.000000000' '2011-02-11T00:00:00.000000000'
 '2011-02-18T00:00:00.000000000' '2011-02-25T00:00:00.000000000'
 '2011-03-04T00:00:00.000000000' '2011-03-11T00:00:00.000000000'
 '2011-03-18T00:00:00.000000000' '2011-03-25T00:00:00.000000000'
 '2011-04-01T00:00:00.000000000' '2011-04-08T00:00:00.000000000'
 '2011-04-15T00:00:00.000000000' '2011-04-22T00:00:00.000000000'
 '2011-04-29T00:00:00.000000000' '2011-05-06T00:00:00.000000000'
 '2011-05-13T00:00:00.000000000' '2011-05-20T00:00:00.000000000'
 '2011-05-27T00:00:00.000000000' '2011-06-03T00:00:00.000000000'
 '2011-06-10T00:00:00.000000000' '2011-06-17T00:00:00.000000000'
 '2011-06-24T00:00:00.000000000' '2011-07-01T00:00:00.000000000'
 '2011-07-08T00:00:00.000000000' '2011-07-15T00:00:00.000000000'
 '2011-07-22T00:00:00.000000000' '2011-07-29T00:00:00.000000000'
 '2011-08-05T00:00:00.000000000' '2011-08-12T00:00:00.000000000'
 '2011-08-19T00:00:00.000000000' '2011-08-26T00:00:00.000000000'
 '2011-09-02T00:00:00.000000000' '2011-09-09T00:00:00.000000000'
 '2011-09-16T00:00:00.000000000' '2011-09-23T00:00:00.000000000'
 '2011-09-30T00:00:00.000000000' '2011-10-07T00:00:00.000000000'
 '2011-10-14T00:00:00.000000000' '2011-10-21T00:00:00.000000000'
 '2011-10-28T00:00:00.000000000' '2011-11-04T00:00:00.000000000'
 '2011-11-11T00:00:00.000000000' '2011-11-18T00:00:00.000000000'
 '2011-11-25T00:00:00.000000000' '2011-12-02T00:00:00.000000000'
 '2011-12-09T00:00:00.000000000' '2011-12-16T00:00:00.000000000'
 '2011-12-23T00:00:00.000000000' '2011-12-30T00:00:00.000000000'
 '2012-01-06T00:00:00.000000000' '2012-01-13T00:00:00.000000000'
 '2012-01-20T00:00:00.000000000' '2012-01-27T00:00:00.000000000']
 '2012-02-03T00:00:00.000000000' '2012-02-10T00:00:00.000000000'
 '2012-02-17T00:00:00.000000000' '2012-02-24T00:00:00.000000000'
 '2012-03-02T00:00:00.000000000' '2012-03-09T00:00:00.000000000'
```

```
                    '2012-03-16T00:00:00.000000000' '2012-03-23T00:00:00.000000000'
                    '2012-03-30T00:00:00.000000000' '2012-04-06T00:00:00.000000000'
                    '2012-04-13T00:00:00.000000000' '2012-04-20T00:00:00.000000000'
                    '2012-04-27T00:00:00.000000000' '2012-05-04T00:00:00.000000000'
                    '2012-05-11T00:00:00.000000000' '2012-05-18T00:00:00.000000000'
                    '2012-05-25T00:00:00.000000000' '2012-06-01T00:00:00.000000000'
                    '2012-06-08T00:00:00.000000000' '2012-06-15T00:00:00.000000000'
                    '2012-06-22T00:00:00.000000000' '2012-06-29T00:00:00.000000000'
                    '2012-07-06T00:00:00.000000000' '2012-07-13T00:00:00.000000000'
                    '2012-07-20T00:00:00.000000000' '2012-07-27T00:00:00.000000000'
                    '2012-08-03T00:00:00.000000000' '2012-08-10T00:00:00.000000000'
                    '2012-08-17T00:00:00.000000000' '2012-08-24T00:00:00.000000000'
                    '2012-08-31T00:00:00.000000000' '2012-09-07T00:00:00.000000000'
                    '2012-09-14T00:00:00.000000000' '2012-09-21T00:00:00.000000000'
                    '2012-09-28T00:00:00.000000000' '2012-10-05T00:00:00.000000000'
                    '2012-10-12T00:00:00.000000000' '2012-10-19T00:00:00.000000000'
                    '2012-10-26T00:00:00.000000000']
                    Total No.of unique value : 143
                    ***********************************************************
                    Weekly_Sales: [1643690.9  1641957.44 1611968.17 ...  734464.36  718125.5
                    3  760281.43]
                    Total No.of unique value : 6435
                    ***********************************************************
                    Holiday_Flag: [0 1]
                    Total No.of unique value : 2
                    ***********************************************************
                    Temperature: [42.31 38.51 39.93 ... 75.87 77.55 74.09]
                    Total No.of unique value : 3528
                    ***********************************************************
                    Fuel_Price: [2.572 2.548 2.514 2.561 2.625 2.667 2.72  2.732 2.719 2.77
                    2.808 2.795
                     2.78  2.835 2.854 2.826 2.759 2.705 2.668 2.637 2.653 2.669 2.642 2.623
                     2.608 2.64  2.627 2.692 2.664 2.619 2.577 2.565 2.582 2.624 2.603 2.633
                     2.725 2.716 2.689 2.728 2.771 2.735 2.708 2.843 2.869 2.886 2.943 2.976
                     2.983 3.016 3.01  2.989 3.022 3.045 3.065 3.288 3.459 3.488 3.473 3.524
                     3.622 3.743 3.807 3.81  3.906 3.899 3.907 3.786 3.699 3.648 3.637 3.594
                     3.48  3.575 3.651 3.682 3.684 3.638 3.554 3.523 3.533 3.546 3.526 3.467
                     3.355 3.285 3.274 3.353 3.372 3.332 3.297 3.308 3.236 3.172 3.158 3.159
                     3.112 3.129 3.157 3.261 3.268 3.29  3.36  3.409 3.51  3.555 3.63  3.669
                     3.734 3.787 3.845 3.891 3.877 3.814 3.749 3.688 3.561 3.501 3.452 3.393
                     3.346 3.286 3.227 3.256 3.311 3.407 3.417 3.494 3.571 3.62  3.73  3.717
                     3.721 3.666 3.617 3.601 3.506 2.598 2.573 2.54  2.59  2.654 2.704 2.743
                     2.752 2.74  2.773 2.81  2.805 2.787 2.836 2.845 2.82  2.756 2.701 2.635
                     2.621 2.612 2.65  2.698 2.671 2.584 2.574 2.594 2.645 2.736 2.718 2.699
                     2.741 2.727 2.86  2.884 2.887 2.955 2.98  2.992 3.017 2.996 3.033 3.058
                     3.087 3.305 3.461 3.495 3.521 3.605 3.724 3.781 3.866 3.872 3.881 3.771
                     3.683 3.64  3.618 3.57  3.504 3.469 3.563 3.627 3.659 3.662 3.55  3.532
                     3.371 3.299 3.283 3.361 3.362 3.322 3.294 3.225 3.176 3.153 3.149 3.103
                     3.119 3.263 3.273 3.354 3.411 3.493 3.541 3.619 3.667 3.707 3.759 3.82
                     3.864 3.747 3.685 3.551 3.483 3.433 3.329 3.257 3.187 3.224 3.356 3.374
                     3.476 3.552 3.61  3.646 3.709 3.706 3.603 3.514 2.58  2.55  2.586 2.62
                     2.684 2.717 2.75  2.765 2.776 2.766 2.788 2.737 2.7   2.674 2.715 2.711
                     2.691 2.69  2.723 2.731 2.8   2.793 2.745 2.762 2.748 2.729 2.758 2.742
                     2.712 2.778 2.781 2.829 2.882 2.911 2.973 3.008 3.011 3.037 3.051 3.101
                     3.232 3.406 3.414 3.611 3.636 3.663 3.735 3.767 3.828 3.795 3.763 3.697
                     3.661 3.597 3.54  3.545 3.547 3.542 3.499 3.485 3.511 3.566 3.596 3.581
                     3.538 3.498 3.491 3.548 3.527 3.505 3.479 3.424 3.378 3.331 3.266 3.173
                     3.095 3.077 3.055 3.038 3.031 3.113 3.191 3.486 3.664 3.75  3.854 3.901
                     3.936 3.927 3.903 3.87  3.837 3.804 3.764 3.741 3.723 3.693 3.613 3.585
                     3.528 3.509 3.558 3.556 3.765 3.789 3.779 3.76  3.686 2.962 2.828 2.915
```

```
        2.825 2.877 3.034 3.054 3.086 3.004 3.109 3.05  3.105 3.127 3.145 3.12
        2.941 3.057 2.935 3.084 2.978 3.1   2.971 3.123 3.049 3.041 2.961 3.028
        2.939 3.001 2.924 3.08  3.014 3.13  3.009 3.047 3.162 3.091 3.125 3.148
        3.287 3.312 3.336 3.231 3.348 3.381 3.43  3.398 3.674 3.892 3.716 3.772
        3.818 4.089 3.917 4.151 4.193 4.202 3.99  3.933 3.893 3.981 3.935 3.842
        3.793 3.694 3.803 3.794 3.798 3.784 3.827 3.698 3.843 3.677 3.701 3.644
        3.489 3.428 3.443 3.477 3.66  3.675 3.543 3.722 3.95  3.882 3.963 4.273
        4.288 4.294 4.282 4.254 4.111 4.088 4.058 4.186 4.308 4.127 4.277 4.103
        4.144 4.014 3.875 3.589 3.769 3.595 3.811 4.002 4.055 3.886 4.124 3.966
        4.125 4.132 4.468 4.449 4.301 2.946 2.987 2.925 3.083 3.09  2.949 3.043
        3.094 3.044 3.013 3.161 3.203 3.223 3.342 3.53  3.692 3.909 4.003 3.868
        4.134 4.169 4.087 4.031 3.898 3.705 3.805 3.74  3.913 3.918 3.727 3.824
        3.813 3.6   3.599 3.657 3.702 4.178 4.25  4.038 4.121 4.222 4.171 4.11
        4.293 3.726 4.093 4.133 2.666 2.681 2.733 2.782 2.819 2.842 2.936 2.948
        2.95  2.908 2.871 2.841 2.814 2.802 2.791 2.797 2.837 2.85  2.868 2.87
        2.875 2.872 2.853 2.849 2.831 2.83  2.812 2.817 2.846 2.891 2.903 2.934
        2.96  2.974 3.062 3.23  3.435 3.487 3.616 3.655 3.744 3.77  3.802 3.778
        3.752 3.732 3.704 3.668 3.553 3.574 3.606 3.578 3.58  3.641 3.623 3.592
        3.567 3.579 3.513 3.445 3.389 3.341 3.282 3.186 3.056 3.116 3.242 3.38
        3.529 3.671 3.833 3.831 3.809 3.808 3.801 3.788 3.776 3.756 3.737 3.681
        3.537 3.512 3.582 3.624 3.689 3.821 3.815 3.797 3.755 2.784 2.754 2.777
        2.818 2.844 2.899 2.902 2.921 2.966 2.982 2.958 2.847 2.809 2.815 2.783
        2.779 2.755 2.706 2.713 2.707 2.764 2.917 2.931 3.   3.039 3.046 3.14
        3.141 3.179 3.193 3.205 3.229 3.237 3.239 3.245 3.631 3.625 3.72  3.962
        4.046 4.066 4.062 3.985 3.922 3.748 3.711 3.829 3.812 3.703 3.738 3.742
        3.645 3.583 3.569 3.492 3.415 3.413 3.422 3.695 3.739 3.816 3.848 3.862
        3.9   3.953 3.996 4.044 4.027 4.004 3.951 3.889 3.564 3.475 3.647 3.654
        3.834 3.867 3.911 3.948 3.997 4.   3.969 2.954 2.94  2.909 2.91  2.919
        2.938 2.963 2.957 3.021 3.042 3.096 3.006 2.972 2.942 2.933 2.932 2.923
        2.913 2.885 2.84  2.999 3.138 3.2   3.255 3.301 3.309 3.351 3.367 3.391
        3.402 3.4   3.416 3.42  3.796 3.895 4.061 4.117 4.192 4.211 4.069 4.025
        3.989 3.964 3.916 3.915 3.972 4.02  3.995 3.942 3.879 3.93  3.937 3.858
        3.775 3.757 3.719 3.587 3.826 3.874 3.983 4.021 4.054 4.098 4.143 4.187
        4.17  4.163 4.029 3.979 3.871 3.819 3.863 4.026 4.076 4.203 4.158 4.153
        4.071 2.747 2.753 2.834 2.895 2.981 2.906 2.857 2.806 2.796 2.792 2.878
        3.03  3.07  3.132 3.139 3.15  3.177 3.215 3.243 3.24  3.281 3.437 3.634
        3.823 3.919 3.988 4.078 4.095 4.101 4.034 3.973 3.924 3.873 3.851 3.88
        3.758 3.633 3.604 3.586 3.536 3.47  3.439 3.568 3.751 3.876 3.921 3.957
        4.023 3.991 3.947 3.85  3.746 3.629 3.577 3.84  3.884 4.056 4.018 2.545
        2.539 2.472 2.52  2.769 2.786 2.767 2.615 2.601 2.606 2.596 2.542 2.602
        2.644 2.604 2.562 2.533 2.513 2.578 2.567 2.595 2.68  2.655 2.694 2.813
        2.852 2.863 2.995 3.053 3.448 3.92  3.925 3.69  3.502 3.44  3.652 3.608
        3.534 3.481 3.441 3.328 3.262 3.234 3.306 3.254 3.26  3.181 3.164 3.147
        3.133 3.098 3.275 3.313 3.421 3.462 3.503 3.934 3.888 3.835 3.713 3.358
        3.392 3.404 3.49  3.576]
Total No.of unique value : 892
*********************************************************
CPI: [211.0963582 211.2421698 211.2891429 ... 214.6772833 214.7212488
 214.7415392]
Total No.of unique value : 2145
*********************************************************
Unemployment: [ 8.106  7.808  7.787  7.838  7.742  7.682  7.962  7.866
7.348  7.143
  6.908  6.573  8.324  8.2    8.099  8.163  8.028  7.931  7.852  7.441
  7.057  6.891  6.565  6.17   7.368  7.343  7.346  7.564  7.551  7.574
  7.567  7.197  6.833  6.664  6.334  6.034  8.623  7.896  7.372  7.127
  6.51   5.946  5.644  5.143  4.607  4.308  4.077  3.879  6.566  6.465
  6.496  6.768  6.634  6.489  6.529  6.3    5.943  5.801  5.603  5.422
  7.259  7.092  6.973  7.007  6.858  6.855  6.925  6.551  6.132  5.964
  5.668  5.329  9.014  8.963  9.017  9.137  8.818  8.595  8.622  8.513
```

```
        8.256   8.09    7.872   7.557   6.299   6.29    6.315   6.433   6.262   6.297
        6.425   6.123   5.825   5.679   5.401   5.124   6.415   6.384   6.442   6.56
        6.416   6.38    6.404   6.054   5.667   5.539   5.277   4.954   9.765   9.524
        9.199   9.003   8.744   8.494   8.257   7.874   7.545   7.382   7.17    6.943
       13.975  14.099  14.18   14.313  14.021  13.736  13.503  12.89   12.187  11.627
       10.926  10.199   8.316   8.107   7.951   7.795   7.47    7.193   6.877   6.392
        6.104   5.965   5.765   5.621   8.992   8.899   8.743   8.724   8.549   8.521
        8.625   8.523   8.424   8.567   8.684   8.667   8.35    8.185   8.067   7.771
        7.658   7.806   7.943   8.15    8.193   7.992   7.039   6.842   6.868   6.986
        6.614   6.339   6.338   6.232   6.162   6.169   6.061   5.847   6.548   6.635
        6.697   6.885   6.866   6.774   6.745   6.617   6.403   6.235   5.936   5.527
        9.202   9.269   9.342   9.331   9.131   8.975   8.89    8.471   8.075   8.304
        8.535   8.243   8.187   7.856   7.527   7.484   7.287   7.274   7.082   6.961
        7.139   7.28    7.293   8.283   8.348   8.433   8.572   8.458   8.252   8.023
        7.706   7.503   7.671   7.753   7.543   5.892   5.435   5.326   5.287   5.114
        4.781   4.584   4.42    4.261   4.125   4.156   4.145   8.326   8.211   8.117
        8.275   8.212   8.358   8.454   8.659   8.983   8.953   8.693   8.488   8.512
        8.445   8.149   7.907   7.818   7.767   7.598   7.467   7.489   7.405   7.138
        8.237   8.058   7.982   8.021   7.827   7.725   7.85    7.906   8.009   8.253
        8.239   8.      10.064  10.16   10.409  10.524  10.256   9.966   9.863   9.357
        8.988   9.14    9.419   9.151  10.115   9.849   9.495   9.265   8.951   8.687
        8.442   8.01    7.603   7.396   7.147   6.895   9.521   9.593   9.816  10.21
       10.398  10.581  10.641  10.148   9.653   9.575   9.285   8.839   9.262   9.051
        8.861   8.763   8.745   8.876   8.665   8.554   8.464   8.36    8.476   8.395
        8.3     8.177   7.716   7.244   6.989   6.623   6.228   7.541   7.363   7.335
        7.508   7.241   6.934   6.901   6.759   6.589   6.547   6.432   6.195   8.119
        7.972   7.804   7.61    7.224   6.906   6.078   5.774   5.407   5.217]
Total No.of unique value : 349
*********************************************************
```

1.Which store has maximum sales ?

```
In [11]: maximum_sales = data.groupby('Store')['Weekly_Sales'].sum()
         maximum_sales.idxmax()
```

Out[11]: 20
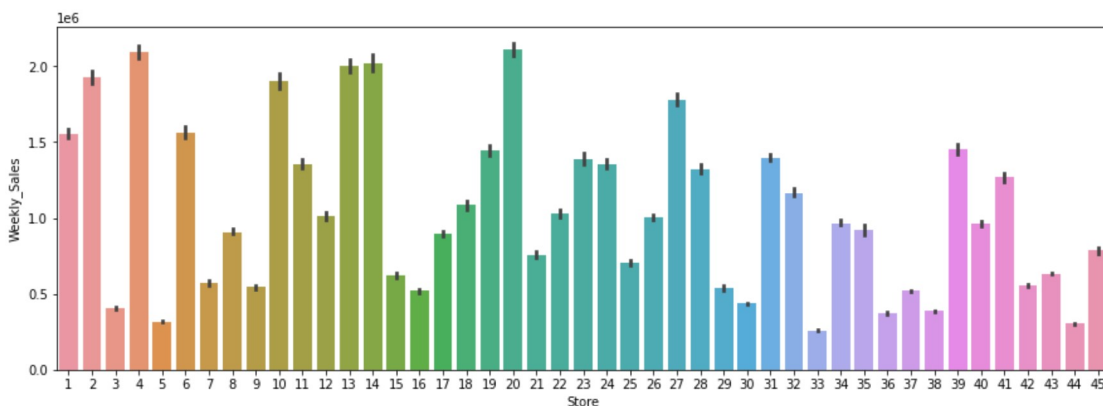
```
In [12]: plt.figure(figsize=(15,5))
         sns.barplot(x=data.Store, y = data.Weekly_Sales)
```

Out[12]: <matplotlib.axes._subplots.AxesSubplot at 0x7f8905cd1510>

Which store has maximum standard deviation i.e., the sales vary a lot. Also, find out the coefficient of
mean to standard deviation.

In [13]:
```python
maximum_sales_std = data.groupby('Store')['Weekly_Sales'].std()
maximum_sales_std.idxmax()
```

Out[13]: 14

In [14]:
```python
sales_mean = data.groupby('Store')['Weekly_Sales'].mean()
sales_mean.head()
```

Out[14]:
```
Store
1     1.555264e+06
2     1.925751e+06
3     4.027044e+05
4     2.094713e+06
5     3.180118e+05
Name: Weekly_Sales, dtype: float64
```

In [15]:
```python
cov=((data.groupby('Store')['Weekly_Sales'].std())/(data.groupby('Store')['Weekly_Sales'].mean()))*100
cov.idxmax()
```

Out[15]: 35

In [16]:
```python
stores = data.groupby('Store')
store_20 = stores.get_group(20)
plt.figure(figsize=(10,5))
sns.distplot(store_20.Weekly_Sales, color='blue', label='Weekly Sales for Store 20')
```

```
/usr/local/lib/python3.7/dist-packages/seaborn/distributions.py:2619: Fu
tureWarning: `distplot` is a deprecated function and will be removed in
a future version. Please adapt your code to use either `displot` (a figu
re-level function with similar flexibility) or `histplot` (an axes-level
function for histograms).
  warnings.warn(msg, FutureWarning)
```

Out[16]: <matplotlib.axes._subplots.AxesSubplot at 0x7f8904d8c210>
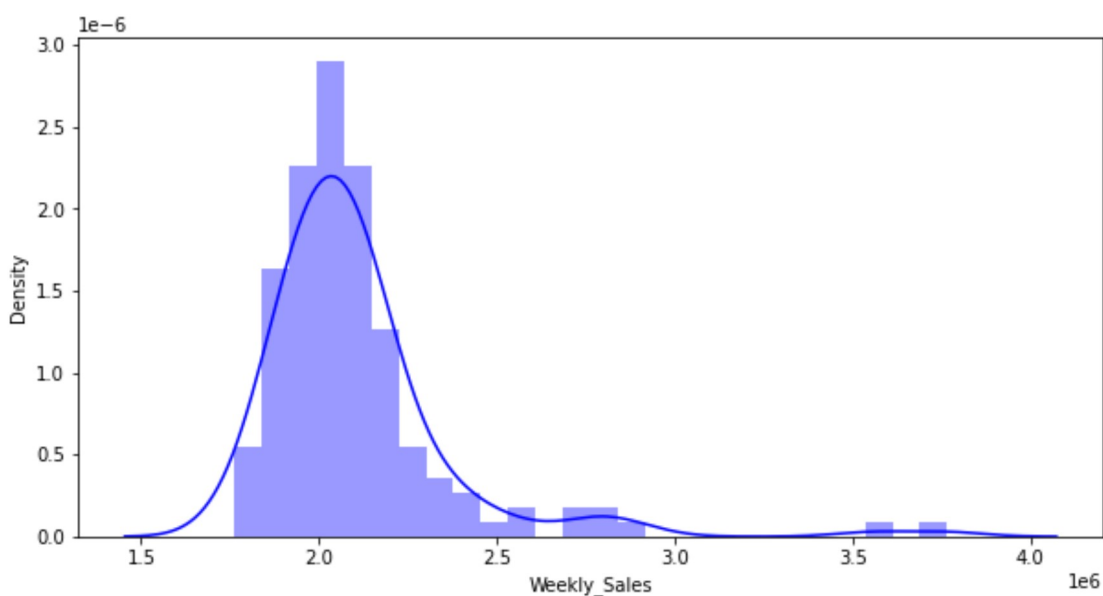
In [17]:
```python
store_14= stores.get_group(14)
plt.figure(figsize=(10,5))
sns.distplot(store_14.Weekly_Sales,color='blue',label='Weekly Sales for S
tore 14')
```

/usr/local/lib/python3.7/dist-packages/seaborn/distributions.py:2619: Fu
tureWarning: `distplot` is a deprecated function and will be removed in
a future version. Please adapt your code to use either `displot` (a figu
re-level function with similar flexibility) or `histplot` (an axes-level
function for histograms).
  warnings.warn(msg, FutureWarning)

Out[17]: <matplotlib.axes._subplots.AxesSubplot at 0x7f8904ce0310>
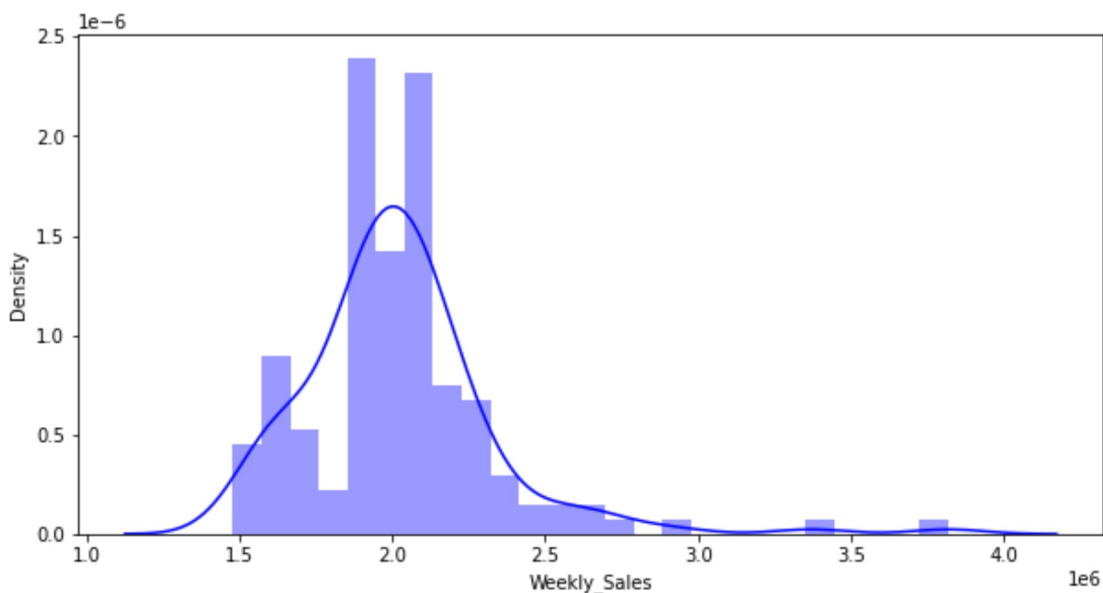
In [18]:
```
store_35= stores.get_group(35)
plt.figure(figsize=(10,5))
sns.distplot(store_35.Weekly_Sales,color='blue',label='Weekly Sales for S
tore 35')
```

```
/usr/local/lib/python3.7/dist-packages/seaborn/distributions.py:2619: Fu
tureWarning: `distplot` is a deprecated function and will be removed in
a future version. Please adapt your code to use either `displot` (a figu
re-level function with similar flexibility) or `histplot` (an axes-level
function for histograms).
  warnings.warn(msg, FutureWarning)
```

Out[18]: <matplotlib.axes._subplots.AxesSubplot at 0x7f8904c14050>
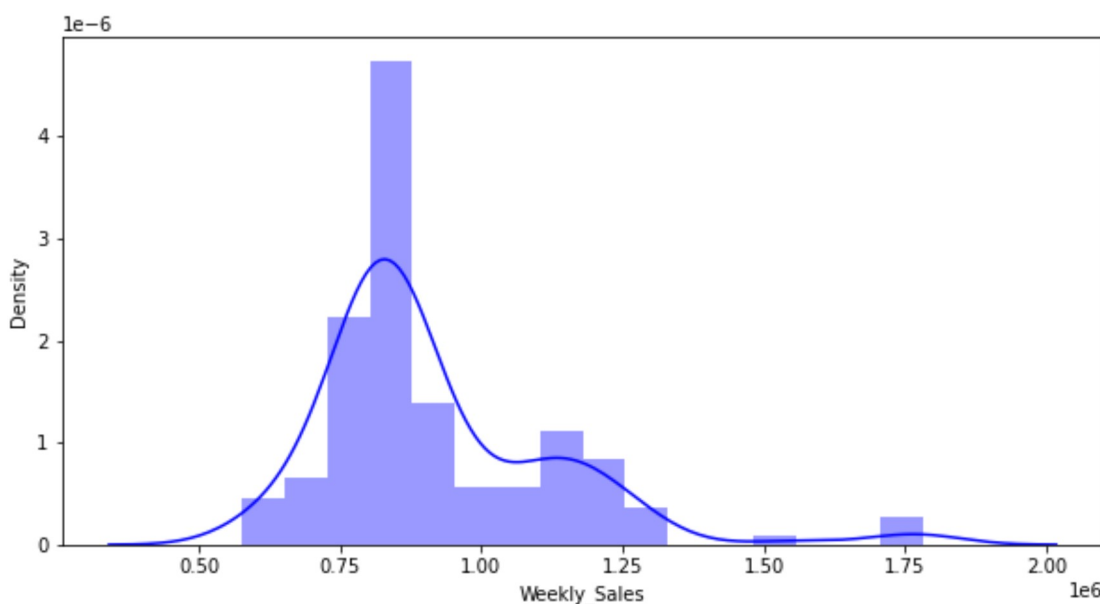
In [19]: `sns.boxplot(store_20.Weekly_Sales,color='green')`

```
/usr/local/lib/python3.7/dist-packages/seaborn/_decorators.py:43: Future
Warning: Pass the following variable as a keyword arg: x. From version
0.12, the only valid positional argument will be `data`, and passing oth
er arguments without an explicit keyword will result in an error or misi
nterpretation.
  FutureWarning
```

Out[19]: <matplotlib.axes._subplots.AxesSubplot at 0x7f8904b361d0>
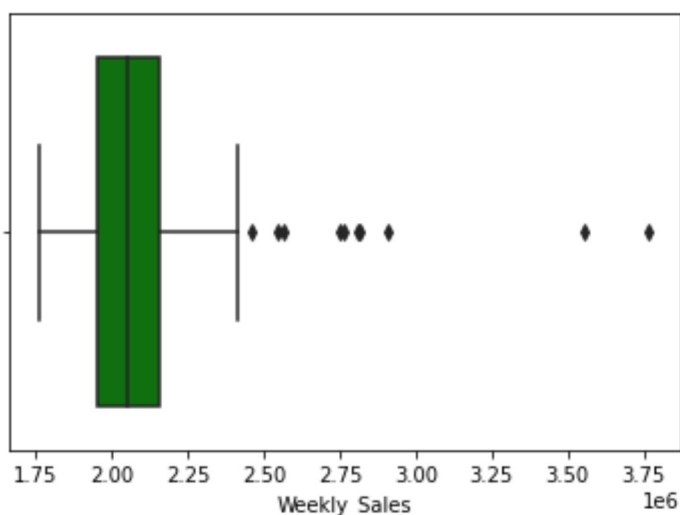
In [20]: `sns.boxplot(store_14.Weekly_Sales,color='green')`

/usr/local/lib/python3.7/dist-packages/seaborn/_decorators.py:43: Future
Warning: Pass the following variable as a keyword arg: x. From version
0.12, the only valid positional argument will be `data`, and passing oth
er arguments without an explicit keyword will result in an error or misi
nterpretation.
  FutureWarning

Out[20]: `<matplotlib.axes._subplots.AxesSubplot at 0x7f8904af5f90>`
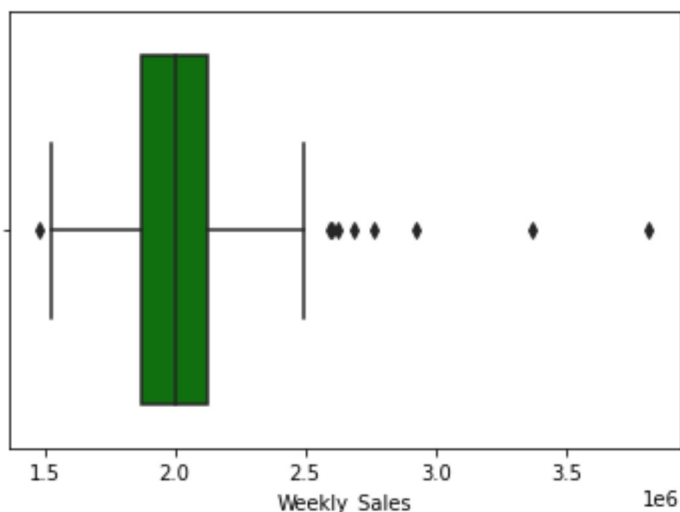
In [21]: `sns.boxplot(store_35.Weekly_Sales,color='green')`

/usr/local/lib/python3.7/dist-packages/seaborn/_decorators.py:43: Future
Warning: Pass the following variable as a keyword arg: x. From version
0.12, the only valid positional argument will be `data`, and passing oth
er arguments without an explicit keyword will result in an error or misi
nterpretation.
  FutureWarning

Out[21]: `<matplotlib.axes._subplots.AxesSubplot at 0x7f8904a38790>`
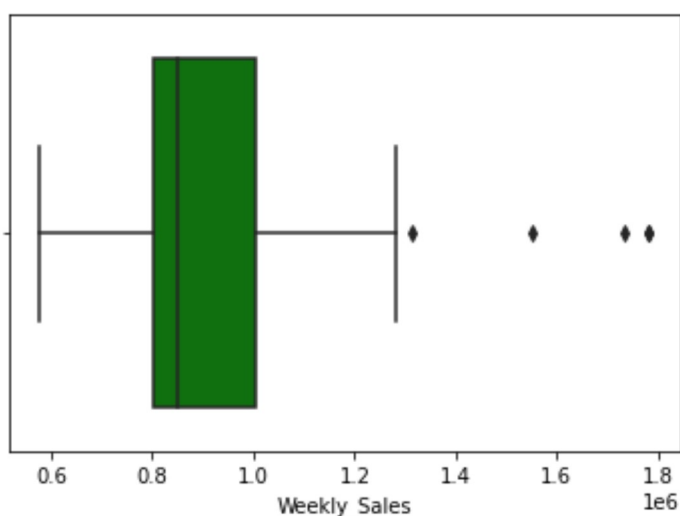
Which store/s has good quarterly growth rate in Q3'2012 ?

In [22]:
```
data['Month'] = data.Date.dt.month
data['Year'] = data.Date.dt.year
data.head()
```

Out[22]:

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI	Un
0	1	2010-02-05	1643690.90	0	42.31	2.572	211.096358	
1	1	2010-02-12	1641957.44	1	38.51	2.548	211.242170	
2	1	2010-02-19	1611968.17	0	39.93	2.514	211.289143	
3	1	2010-02-26	1409727.59	0	46.63	2.561	211.319643	
4	1	2010-03-05	1554806.68	0	46.50	2.625	211.350143	

In [23]:
```
data['Month'].unique()
```

Out[23]: `array([ 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 1])`

In [24]:
```python
year = data.groupby('Year')
year_2012 = year.get_group(2012)
year_2012
```

Out[24]:

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
100	1	2012-01-06	1550369.92	0	49.01	3.157	219.714258
101	1	2012-01-13	1459601.17	0	48.53	3.261	219.892526
102	1	2012-01-20	1394393.84	0	54.11	3.268	219.985689
103	1	2012-01-27	1319325.59	0	54.26	3.290	220.078852
104	1	2012-02-03	1636339.65	0	56.55	3.360	220.172015
105	1	2012-02-10	1802477.43	1	48.02	3.409	220.265178
106	1	2012-02-17	1819870.00	0	45.32	3.510	220.425759
107	1	2012-02-24	1539387.83	0	57.25	3.555	220.636902
108	1	2012-03-02	1688420.76	0	60.96	3.630	220.848045
109	1	2012-03-09	1675431.16	0	58.76	3.669	221.059189
110	1	2012-03-16	1677472.78	0	64.74	3.734	221.211813
111	1	2012-03-23	1511068.07	0	65.93	3.787	221.286413
112	1	2012-03-30	1649604.63	0	67.61	3.845	221.361012
113	1	2012-04-06	1899676.88	0	70.43	3.891	221.435611
114	1	2012-04-13	1621031.70	0	69.07	3.891	221.510210
115	1	2012-04-20	1521577.87	0	66.76	3.877	221.564074
116	1	2012-04-27	1468928.37	0	67.23	3.814	221.617937
117	1	2012-05-04	1684519.99	0	75.55	3.749	221.671800
118	1	2012-05-11	1611096.05	0	73.77	3.688	221.725663
119	1	2012-05-18	1595901.87	0	70.33	3.630	221.742674
120	1	2012-05-25	1555444.55	0	77.22	3.561	221.744944
121	1	2012-06-01	1624477.58	0	77.95	3.501	221.747214
122	1	2012-06-08	1697230.96	0	78.30	3.452	221.749484
123	1	2012-06-15	1630607.00	0	79.35	3.393	221.762642
124	1	2012-06-22	1527845.81	0	78.39	3.346	221.803021
125	1	2012-06-29	1540421.49	0	84.88	3.286	221.843400
126	1	2012-07-06	1769854.16	0	81.57	3.227	221.883779
127	1	2012-07-13	1527014.04	0	77.12	3.256	221.924158
128	1	2012-07-20	1497954.76	0	80.42	3.311	221.932727
129	1	2012-07-27	1439123.71	0	82.66	3.407	221.941295
130	1	2012-08-03	1631135.79	0	86.11	3.417	221.949864
131	1	2012-08-10	1592409.97	0	85.05	3.494	221.958433
132	1	2012-08-17	1597868.05	0	84.85	3.571	222.038411
133	1	2012-08-24	1494122.38	0	77.66	3.620	222.171946
134	1	2012-08-31	1582083.40	0	80.49	3.638	222.305480

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
135	1	2012-09-07	1661767.33	1	83.96	3.730	222.439015
136	1	2012-09-14	1517428.87	0	74.97	3.717	222.582019
137	1	2012-09-21	1506126.06	0	69.87	3.721	222.781839
138	1	2012-09-28	1437059.26	0	76.08	3.666	222.981658
139	1	2012-10-05	1670785.97	0	68.55	3.617	223.181477
140	1	2012-10-12	1573072.81	0	62.99	3.601	223.381296
141	1	2012-10-19	1508068.77	0	67.97	3.594	223.425723
142	1	2012-10-26	1493659.74	0	69.16	3.506	223.444251
243	2	2012-01-06	1799520.14	0	46.75	3.157	219.355063
244	2	2012-01-13	1744725.48	0	45.99	3.261	219.532820
245	2	2012-01-20	1711769.11	0	51.70	3.268	219.625842
246	2	2012-01-27	1660906.14	0	50.50	3.290	219.718864
247	2	2012-02-03	1935299.94	0	55.21	3.360	219.811885
248	2	2012-02-10	2103322.68	1	46.98	3.409	219.904907
249	2	2012-02-17	2196688.46	0	43.82	3.510	220.065199
250	2	2012-02-24	1861802.70	0	54.63	3.555	220.275944
251	2	2012-03-02	1952555.66	0	58.79	3.630	220.486689
252	2	2012-03-09	1937628.26	0	57.11	3.669	220.697433
253	2	2012-03-16	1976082.13	0	63.68	3.734	220.849847
254	2	2012-03-23	1790439.16	0	64.01	3.787	220.924486
255	2	2012-03-30	1857480.84	0	66.83	3.845	220.999125
256	2	2012-04-06	2129035.91	0	68.43	3.891	221.073764
257	2	2012-04-13	1935869.10	0	68.08	3.891	221.148403
258	2	2012-04-20	1847344.45	0	65.69	3.877	221.202107
259	2	2012-04-27	1764133.09	0	67.20	3.814	221.255812
260	2	2012-05-04	1923957.09	0	76.73	3.749	221.309517
261	2	2012-05-11	1917520.99	0	73.87	3.688	221.363221
262	2	2012-05-18	2000940.67	0	71.27	3.630	221.380331
263	2	2012-05-25	1912791.09	0	78.19	3.561	221.382803
264	2	2012-06-01	1910092.37	0	78.38	3.501	221.385275
265	2	2012-06-08	2010216.49	0	78.69	3.452	221.387747
266	2	2012-06-15	1962924.30	0	80.56	3.393	221.400990
267	2	2012-06-22	1887733.21	0	81.04	3.346	221.441162
268	2	2012-06-29	1881046.12	0	86.32	3.286	221.481334
269	2	2012-07-06	2041507.40	0	84.20	3.227	221.521506
270	2	2012-07-13	1830075.13	0	80.17	3.256	221.561678
271	2	2012-07-20	1819666.46	0	83.23	3.311	221.570112
272	2	2012-07-27	1757923.88	0	86.37	3.407	221.578546

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
273	2	2012-08-03	1946104.64	0	90.22	3.417	221.586980
274	2	2012-08-10	1866719.96	0	88.55	3.494	221.595414
275	2	2012-08-17	1928016.01	0	84.79	3.571	221.675146
276	2	2012-08-24	1876788.15	0	76.91	3.620	221.808352
277	2	2012-08-31	1947083.30	0	82.64	3.638	221.941558
278	2	2012-09-07	1898777.07	1	87.65	3.730	222.074763
279	2	2012-09-14	1814806.63	0	75.88	3.717	222.217440
280	2	2012-09-21	1829415.67	0	71.09	3.721	222.416936
281	2	2012-09-28	1746470.56	0	79.45	3.666	222.616433
282	2	2012-10-05	1998321.04	0	70.27	3.617	222.815930
283	2	2012-10-12	1900745.13	0	60.97	3.601	223.015426
284	2	2012-10-19	1847990.41	0	68.08	3.594	223.059808
285	2	2012-10-26	1834458.35	0	69.79	3.506	223.078337
386	3	2012-01-06	398178.21	0	52.42	3.157	223.192305
387	3	2012-01-13	367438.62	0	51.86	3.261	223.375526
388	3	2012-01-20	365818.61	0	56.20	3.268	223.470055
389	3	2012-01-27	349518.10	0	58.06	3.290	223.564584
390	3	2012-02-03	424960.66	0	59.33	3.360	223.659114
391	3	2012-02-10	473292.47	1	51.65	3.409	223.753643
392	3	2012-02-17	475591.08	0	52.39	3.510	223.917015
393	3	2012-02-24	418925.47	0	60.12	3.555	224.132020
394	3	2012-03-02	469752.56	0	61.65	3.630	224.347025
395	3	2012-03-09	445162.05	0	60.71	3.669	224.562029
396	3	2012-03-16	411775.80	0	64.00	3.734	224.716695
397	3	2012-03-23	413907.25	0	66.53	3.787	224.790910
398	3	2012-03-30	407488.84	0	69.36	3.845	224.865125
399	3	2012-04-06	503232.13	0	73.01	3.891	224.939340
400	3	2012-04-13	420789.74	0	72.83	3.891	225.013556
401	3	2012-04-20	434822.13	0	72.05	3.877	225.068954
402	3	2012-04-27	394616.11	0	73.39	3.814	225.124353
403	3	2012-05-04	439913.57	0	79.51	3.749	225.179751
404	3	2012-05-11	431985.36	0	75.19	3.688	225.235150
405	3	2012-05-18	418112.76	0	72.38	3.630	225.251202
406	3	2012-05-25	413701.29	0	78.58	3.561	225.251517
407	3	2012-06-01	432268.53	0	81.55	3.501	225.251831
408	3	2012-06-08	446336.80	0	81.65	3.452	225.252146
409	3	2012-06-15	442074.79	0	84.66	3.393	225.264479
410	3	2012-06-22	419497.95	0	82.70	3.346	225.306861

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
411	3	2012-06-29	422965.33	0	86.42	3.286	225.349244
412	3	2012-07-06	411206.50	0	83.14	3.227	225.391625
413	3	2012-07-13	416913.10	0	82.28	3.256	225.434007
414	3	2012-07-20	432424.85	0	81.38	3.311	225.443883
415	3	2012-07-27	389427.90	0	84.94	3.407	225.453758
416	3	2012-08-03	419990.29	0	86.55	3.417	225.463633
417	3	2012-08-10	391811.60	0	85.85	3.494	225.473509
418	3	2012-08-17	394918.83	0	87.36	3.571	225.555866
419	3	2012-08-24	412449.67	0	83.01	3.620	225.692586
420	3	2012-08-31	408838.73	0	85.18	3.638	225.829306
421	3	2012-09-07	408229.73	1	84.99	3.730	225.966026
422	3	2012-09-14	407589.16	0	78.36	3.717	226.112207
423	3	2012-09-21	414392.09	0	72.78	3.721	226.315150
424	3	2012-09-28	389813.02	0	77.46	3.666	226.518093
425	3	2012-10-05	443557.65	0	72.74	3.617	226.721036
426	3	2012-10-12	410804.39	0	70.31	3.601	226.923979
427	3	2012-10-19	424513.08	0	73.44	3.594	226.968844
428	3	2012-10-26	405432.70	0	74.66	3.506	226.987364
529	4	2012-01-06	2047766.07	0	38.64	3.158	130.157516
530	4	2012-01-13	1941676.61	0	34.41	3.263	130.244000
531	4	2012-01-20	2005097.76	0	42.09	3.273	130.279226
532	4	2012-01-27	1928720.51	0	40.31	3.290	130.314452
533	4	2012-02-03	2173373.91	0	41.81	3.354	130.349677
534	4	2012-02-10	2374660.64	1	33.00	3.411	130.384903
535	4	2012-02-17	2427640.17	0	34.19	3.493	130.454621
536	4	2012-02-24	2226662.17	0	41.31	3.541	130.550207
537	4	2012-03-02	2206319.90	0	50.38	3.619	130.645793
538	4	2012-03-09	2202450.81	0	53.63	3.667	130.741379
539	4	2012-03-16	2214967.44	0	59.81	3.707	130.826193
540	4	2012-03-23	2091592.54	0	59.07	3.759	130.896645
541	4	2012-03-30	2089381.77	0	72.63	3.820	130.967097
542	4	2012-04-06	2470206.13	0	67.69	3.864	131.037548
543	4	2012-04-13	2105301.39	0	68.69	3.881	131.108000
544	4	2012-04-20	2144336.89	0	68.60	3.864	131.117333
545	4	2012-04-27	2064065.66	0	76.47	3.810	131.126667
546	4	2012-05-04	2196968.33	0	80.14	3.747	131.136000
547	4	2012-05-11	2127661.17	0	67.64	3.685	131.145333
548	4	2012-05-18	2207214.81	0	68.43	3.620	131.098323

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
549	4	2012-05-25	2154137.67	0	77.47	3.551	131.028774
550	4	2012-06-01	2179360.94	0	77.41	3.483	130.959226
551	4	2012-06-08	2245257.18	0	78.11	3.433	130.889677
552	4	2012-06-15	2234190.93	0	80.94	3.372	130.829533
553	4	2012-06-22	2197299.65	0	81.63	3.329	130.792900
554	4	2012-06-29	2128362.92	0	84.23	3.257	130.756267
555	4	2012-07-06	2224499.28	0	80.37	3.187	130.719633
556	4	2012-07-13	2100252.61	0	76.86	3.224	130.683000
557	4	2012-07-20	2175563.69	0	79.14	3.263	130.701290
558	4	2012-07-27	2048613.65	0	81.06	3.356	130.719581
559	4	2012-08-03	2174514.13	0	83.86	3.374	130.737871
560	4	2012-08-10	2193367.69	0	83.21	3.476	130.756161
561	4	2012-08-17	2283540.30	0	81.41	3.552	130.790968
562	4	2012-08-24	2125241.68	0	75.76	3.610	130.838161
563	4	2012-08-31	2081181.35	0	76.47	3.646	130.885355
564	4	2012-09-07	2125104.72	1	82.09	3.709	130.932548
565	4	2012-09-14	2117854.60	0	68.20	3.706	130.977667
566	4	2012-09-21	2119438.53	0	68.97	3.721	131.010333
567	4	2012-09-28	2027620.23	0	71.74	3.666	131.043000
568	4	2012-10-05	2209835.43	0	63.07	3.620	131.075667
569	4	2012-10-12	2133026.07	0	57.11	3.603	131.108333
570	4	2012-10-19	2097266.85	0	64.46	3.610	131.149968
571	4	2012-10-26	2149594.46	0	63.64	3.514	131.193097
672	5	2012-01-06	312078.71	0	50.21	3.157	220.296920
673	5	2012-01-13	291454.52	0	48.86	3.261	220.476019
674	5	2012-01-20	287523.98	0	54.65	3.268	220.569410
675	5	2012-01-27	295974.22	0	54.63	3.290	220.662802
676	5	2012-02-03	333948.00	0	57.35	3.360	220.756194
677	5	2012-02-10	349239.88	1	48.57	3.409	220.849586
678	5	2012-02-17	356427.98	0	48.25	3.510	221.010634
679	5	2012-02-24	312220.47	0	57.75	3.555	221.222424
680	5	2012-03-02	359206.21	0	60.66	3.630	221.434215
681	5	2012-03-09	347295.60	0	57.69	3.669	221.646005
682	5	2012-03-16	339392.54	0	63.55	3.734	221.798971
683	5	2012-03-23	321299.99	0	64.44	3.787	221.873506
684	5	2012-03-30	331318.73	0	67.76	3.845	221.948041
685	5	2012-04-06	402985.70	0	70.40	3.891	222.022576
686	5	2012-04-13	351832.03	0	70.56	3.891	222.097111

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
687	5	2012-04-20	330063.06	0	67.33	3.877	222.151231
688	5	2012-04-27	324839.74	0	68.96	3.814	222.205352
689	5	2012-05-04	360932.69	0	77.10	3.749	222.259472
690	5	2012-05-11	333870.52	0	73.45	3.688	222.313593
691	5	2012-05-18	336189.66	0	70.45	3.630	222.330443
692	5	2012-05-25	341994.48	0	78.23	3.561	222.332385
693	5	2012-06-01	359867.80	0	79.72	3.501	222.334328
694	5	2012-06-08	341704.59	0	81.02	3.452	222.336270
695	5	2012-06-15	327383.64	0	81.64	3.393	222.349290
696	5	2012-06-22	325041.68	0	80.57	3.346	222.390005
697	5	2012-06-29	329658.10	0	87.08	3.286	222.430719
698	5	2012-07-06	341214.43	0	82.35	3.227	222.471434
699	5	2012-07-13	316203.64	0	80.78	3.256	222.512148
700	5	2012-07-20	321205.12	0	81.05	3.311	222.520936
701	5	2012-07-27	306827.36	0	85.06	3.407	222.529723
702	5	2012-08-03	324195.17	0	86.91	3.417	222.538511
703	5	2012-08-10	306759.70	0	86.96	3.494	222.547299
704	5	2012-08-17	314014.18	0	87.52	3.571	222.627675
705	5	2012-08-24	320831.36	0	79.45	3.620	222.761744
706	5	2012-08-31	344642.01	0	84.25	3.638	222.895812
707	5	2012-09-07	350648.91	1	86.30	3.730	223.029880
708	5	2012-09-14	299800.67	0	76.65	3.717	223.173417
709	5	2012-09-21	307306.76	0	71.09	3.721	223.373759
710	5	2012-09-28	310141.68	0	78.33	3.666	223.574102
711	5	2012-10-05	343048.29	0	71.17	3.617	223.774444
712	5	2012-10-12	325345.41	0	66.24	3.601	223.974787
713	5	2012-10-19	313358.15	0	69.17	3.594	224.019287
714	5	2012-10-26	319550.77	0	71.70	3.506	224.037814
815	6	2012-01-06	1395339.71	0	50.82	3.157	221.308802
816	6	2012-01-13	1344243.17	0	48.33	3.261	221.489341
817	6	2012-01-20	1326255.70	0	55.37	3.268	221.583131
818	6	2012-01-27	1315610.66	0	53.95	3.290	221.676920
819	6	2012-02-03	1496305.78	0	57.45	3.360	221.770709
820	6	2012-02-10	1620603.92	1	48.58	3.409	221.864499
821	6	2012-02-17	1632616.09	0	49.03	3.510	222.026359
822	6	2012-02-24	1465187.71	0	59.17	3.555	222.239273
823	6	2012-03-02	1550385.65	0	60.32	3.630	222.452186
824	6	2012-03-09	1569304.40	0	57.89	3.669	222.665100

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
825	6	2012-03-16	1748010.29	0	62.80	3.734	222.818660
826	6	2012-03-23	1495143.62	0	63.71	3.787	222.893083
827	6	2012-03-30	1508933.26	0	67.91	3.845	222.967507
828	6	2012-04-06	1840131.19	0	71.60	3.891	223.041930
829	6	2012-04-13	1616394.45	0	71.29	3.891	223.116353
830	6	2012-04-20	1456073.24	0	68.64	3.877	223.170920
831	6	2012-04-27	1456221.10	0	71.50	3.814	223.225487
832	6	2012-05-04	1543461.12	0	77.66	3.749	223.280054
833	6	2012-05-11	1517075.67	0	72.66	3.688	223.334621
834	6	2012-05-18	1513635.64	0	70.50	3.630	223.351193
835	6	2012-05-25	1603793.42	0	78.47	3.561	223.352566
836	6	2012-06-01	1681121.38	0	80.39	3.501	223.353940
837	6	2012-06-08	1696619.52	0	80.50	3.452	223.355313
838	6	2012-06-15	1642247.48	0	82.10	3.393	223.368093
839	6	2012-06-22	1618272.25	0	81.20	3.346	223.409391
840	6	2012-06-29	1648863.46	0	87.35	3.286	223.450688
841	6	2012-07-06	1876359.39	0	82.95	3.227	223.491985
842	6	2012-07-13	1588142.26	0	80.27	3.256	223.533282
843	6	2012-07-20	1574361.97	0	81.57	3.311	223.542450
844	6	2012-07-27	1513229.16	0	85.78	3.407	223.551618
845	6	2012-08-03	1627274.93	0	87.55	3.417	223.560786
846	6	2012-08-10	1588380.73	0	87.04	3.494	223.569953
847	6	2012-08-17	1543049.52	0	87.53	3.571	223.651022
848	6	2012-08-24	1501095.49	0	79.03	3.620	223.786018
849	6	2012-08-31	1577439.81	0	83.58	3.638	223.921012
850	6	2012-09-07	1608077.01	1	86.33	3.730	224.056008
851	6	2012-09-14	1375166.86	0	76.41	3.717	224.200468
852	6	2012-09-21	1425603.65	0	70.81	3.721	224.401719
853	6	2012-09-28	1369131.46	0	77.82	3.666	224.602971
854	6	2012-10-05	1518177.71	0	70.84	3.617	224.804222
855	6	2012-10-12	1459396.84	0	65.43	3.601	225.005473
856	6	2012-10-19	1436883.99	0	69.68	3.594	225.050101
857	6	2012-10-26	1431426.34	0	72.34	3.506	225.068625
958	7	2012-01-06	713117.66	0	18.67	3.095	196.545831
959	7	2012-01-13	593875.46	0	7.46	3.077	196.733052
960	7	2012-01-20	578002.85	0	27.41	3.055	196.779665
961	7	2012-01-27	541037.98	0	26.90	3.038	196.826279
962	7	2012-02-03	580453.32	0	22.20	3.031	196.872892

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
963	7	2012-02-10	563460.77	1	18.79	3.103	196.919506
964	7	2012-02-17	620908.18	0	27.03	3.113	196.943271
965	7	2012-02-24	603041.14	0	24.41	3.129	196.949901
966	7	2012-03-02	551058.13	0	21.64	3.191	196.956530
967	7	2012-03-09	579166.50	0	30.10	3.286	196.963160
968	7	2012-03-16	669205.73	0	37.29	3.486	197.045721
969	7	2012-03-23	615997.29	0	35.06	3.664	197.229523
970	7	2012-03-30	583322.20	0	44.99	3.750	197.413326
971	7	2012-04-06	621425.98	0	44.29	3.854	197.597128
972	7	2012-04-13	517420.23	0	41.43	3.901	197.780931
973	7	2012-04-20	457340.06	0	39.30	3.936	197.722738
974	7	2012-04-27	467827.75	0	51.49	3.927	197.664546
975	7	2012-05-04	465198.89	0	45.38	3.903	197.606353
976	7	2012-05-11	460397.41	0	48.54	3.870	197.548161
977	7	2012-05-18	468428.30	0	49.41	3.837	197.555314
978	7	2012-05-25	532739.77	0	50.60	3.804	197.588605
979	7	2012-06-01	598495.02	0	55.06	3.764	197.621895
980	7	2012-06-08	642963.75	0	63.07	3.741	197.655186
981	7	2012-06-15	666942.02	0	59.33	3.723	197.692292
982	7	2012-06-22	687344.68	0	63.69	3.735	197.738934
983	7	2012-06-29	704335.41	0	68.84	3.693	197.785577
984	7	2012-07-06	805642.61	0	64.67	3.646	197.832220
985	7	2012-07-13	694150.89	0	64.21	3.613	197.878862
986	7	2012-07-20	686345.69	0	62.87	3.585	197.929038
987	7	2012-07-27	686365.40	0	64.60	3.570	197.979214
988	7	2012-08-03	680954.81	0	61.83	3.528	198.029389
989	7	2012-08-10	675926.30	0	63.41	3.509	198.079565
990	7	2012-08-17	642450.40	0	59.66	3.545	198.100106
991	7	2012-08-24	609099.37	0	59.27	3.558	198.098420
992	7	2012-08-31	586467.16	0	60.46	3.556	198.096734
993	7	2012-09-07	597876.55	1	57.84	3.596	198.095048
994	7	2012-09-14	541120.20	0	53.66	3.659	198.126718
995	7	2012-09-21	530842.25	0	51.77	3.765	198.358523
996	7	2012-09-28	525545.76	0	50.64	3.789	198.590328
997	7	2012-10-05	505830.56	0	48.43	3.779	198.822132
998	7	2012-10-12	503463.93	0	41.43	3.760	199.053937
999	7	2012-10-19	516424.83	0	43.01	3.750	199.148196
1000	7	2012-10-26	495543.28	0	42.53	3.686	199.219532

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
1101	8	2012-01-06	872113.23	0	43.47	3.157	223.240967
1102	8	2012-01-13	817661.76	0	36.46	3.261	223.424257
1103	8	2012-01-20	813954.82	0	46.81	3.268	223.518806
1104	8	2012-01-27	778178.53	0	45.52	3.290	223.613354
1105	8	2012-02-03	927610.69	0	45.56	3.360	223.707902
1106	8	2012-02-10	1021400.42	1	35.71	3.409	223.802451
1107	8	2012-02-17	1096232.89	0	37.51	3.510	223.965862
1108	8	2012-02-24	928537.54	0	46.33	3.555	224.180921
1109	8	2012-03-02	952264.91	0	50.95	3.630	224.395979
1110	8	2012-03-09	960115.56	0	49.59	3.669	224.611038
1111	8	2012-03-16	921178.39	0	56.63	3.734	224.765733
1112	8	2012-03-23	874223.25	0	52.90	3.787	224.839942
1113	8	2012-03-30	905935.29	0	66.69	3.845	224.914152
1114	8	2012-04-06	1046816.59	0	62.18	3.891	224.988362
1115	8	2012-04-13	909989.45	0	65.19	3.891	225.062571
1116	8	2012-04-20	872288.46	0	63.59	3.877	225.117991
1117	8	2012-04-27	879448.25	0	70.34	3.814	225.173411
1118	8	2012-05-04	937232.09	0	73.96	3.749	225.228831
1119	8	2012-05-11	920128.89	0	64.96	3.688	225.284251
1120	8	2012-05-18	913922.01	0	64.16	3.630	225.300291
1121	8	2012-05-25	895157.44	0	76.11	3.561	225.300578
1122	8	2012-06-01	921161.20	0	78.31	3.501	225.300865
1123	8	2012-06-08	928820.00	0	74.28	3.452	225.301152
1124	8	2012-06-15	916918.70	0	77.14	3.393	225.313474
1125	8	2012-06-22	899449.65	0	78.85	3.346	225.355884
1126	8	2012-06-29	878298.22	0	84.47	3.286	225.398294
1127	8	2012-07-06	936205.50	0	81.24	3.227	225.440704
1128	8	2012-07-13	890488.01	0	78.46	3.256	225.483114
1129	8	2012-07-20	888834.07	0	79.94	3.311	225.493008
1130	8	2012-07-27	838227.52	0	81.71	3.407	225.502901
1131	8	2012-08-03	897076.73	0	85.06	3.417	225.512795
1132	8	2012-08-10	930745.69	0	83.74	3.494	225.522688
1133	8	2012-08-17	896613.19	0	81.21	3.571	225.605080
1134	8	2012-08-24	936373.65	0	73.77	3.620	225.741844
1135	8	2012-08-31	976137.73	0	75.33	3.638	225.878609
1136	8	2012-09-07	932160.37	1	80.87	3.730	226.015373
1137	8	2012-09-14	883569.38	0	67.21	3.717	226.161598
1138	8	2012-09-21	857796.45	0	66.96	3.721	226.364585

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
1139	8	2012-09-28	884724.41	0	71.10	3.666	226.567571
1140	8	2012-10-05	976436.02	0	61.41	3.617	226.770558
1141	8	2012-10-12	927511.99	0	55.03	3.601	226.973545
1142	8	2012-10-19	900309.75	0	62.99	3.594	227.018417
1143	8	2012-10-26	891671.44	0	64.74	3.506	227.036936
1244	9	2012-01-06	519585.67	0	47.54	3.157	223.433241
1245	9	2012-01-13	474964.60	0	42.44	3.261	223.616805
1246	9	2012-01-20	480130.04	0	51.56	3.268	223.711429
1247	9	2012-01-27	482451.21	0	49.38	3.290	223.806053
1248	9	2012-02-03	549967.89	0	54.43	3.360	223.900677
1249	9	2012-02-10	609736.12	1	44.03	3.409	223.995301
1250	9	2012-02-17	658965.05	0	43.81	3.510	224.158866
1251	9	2012-02-24	563578.79	0	53.67	3.555	224.374138
1252	9	2012-03-02	619498.28	0	57.20	3.630	224.589410
1253	9	2012-03-09	574955.95	0	54.03	3.669	224.804683
1254	9	2012-03-16	550373.57	0	59.94	3.734	224.959490
1255	9	2012-03-23	550791.32	0	58.79	3.787	225.033679
1256	9	2012-03-30	574985.37	0	67.87	3.845	225.107867
1257	9	2012-04-06	677885.99	0	68.83	3.891	225.182055
1258	9	2012-04-13	578539.86	0	69.19	3.891	225.256244
1259	9	2012-04-20	542819.03	0	68.04	3.877	225.311749
1260	9	2012-04-27	550414.99	0	73.07	3.814	225.367254
1261	9	2012-05-04	586289.08	0	78.98	3.749	225.422758
1262	9	2012-05-11	592572.30	0	70.94	3.688	225.478263
1263	9	2012-05-18	571463.93	0	69.52	3.630	225.494250
1264	9	2012-05-25	547226.00	0	79.69	3.561	225.494429
1265	9	2012-06-01	583648.59	0	80.26	3.501	225.494608
1266	9	2012-06-08	582525.42	0	78.91	3.452	225.494787
1267	9	2012-06-15	564606.10	0	82.21	3.393	225.507063
1268	9	2012-06-22	562173.12	0	81.05	3.346	225.549584
1269	9	2012-06-29	544770.70	0	87.18	3.286	225.592105
1270	9	2012-07-06	578790.36	0	84.15	3.227	225.634626
1271	9	2012-07-13	536537.64	0	82.39	3.256	225.677146
1272	9	2012-07-20	513991.57	0	83.39	3.311	225.687112
1273	9	2012-07-27	495951.00	0	86.41	3.407	225.697078
1274	9	2012-08-03	533887.54	0	90.23	3.417	225.707044
1275	9	2012-08-10	538713.47	0	88.66	3.494	225.717009
1276	9	2012-08-17	535153.47	0	86.37	3.571	225.799532

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
1277	9	2012-08-24	572887.78	0	77.90	3.620	225.936473
1278	9	2012-08-31	576879.15	0	80.71	3.638	226.073413
1279	9	2012-09-07	565812.29	1	87.93	3.730	226.210354
1280	9	2012-09-14	523427.35	0	73.55	3.717	226.356754
1281	9	2012-09-21	533756.88	0	69.92	3.721	226.559914
1282	9	2012-09-28	516361.06	0	76.80	3.666	226.763073
1283	9	2012-10-05	606755.30	0	66.61	3.617	226.966232
1284	9	2012-10-12	558464.80	0	60.09	3.601	227.169392
1285	9	2012-10-19	542009.46	0	68.01	3.594	227.214288
1286	9	2012-10-26	549731.49	0	69.52	3.506	227.232807
1387	10	2012-01-06	1683401.78	0	59.85	3.443	130.157516
1388	10	2012-01-13	1711562.73	0	51.00	3.477	130.244000
1389	10	2012-01-20	1675562.94	0	54.51	3.660	130.279226
1390	10	2012-01-27	1632406.00	0	53.59	3.675	130.314452
1391	10	2012-02-03	1867403.01	0	56.85	3.543	130.349677
1392	10	2012-02-10	2218595.80	1	55.73	3.722	130.384903
1393	10	2012-02-17	2168709.76	0	54.12	3.781	130.454621
1394	10	2012-02-24	2039415.74	0	56.02	3.950	130.550207
1395	10	2012-03-02	1990371.02	0	57.62	3.882	130.645793
1396	10	2012-03-09	1917483.10	0	57.65	3.963	130.741379
1397	10	2012-03-16	1930814.66	0	62.11	4.273	130.826193
1398	10	2012-03-23	1837457.69	0	56.54	4.288	130.896645
1399	10	2012-03-30	1815760.42	0	67.92	4.294	130.967097
1400	10	2012-04-06	2163384.17	0	65.99	4.282	131.037548
1401	10	2012-04-13	1974687.51	0	70.28	4.254	131.108000
1402	10	2012-04-20	1777166.53	0	67.75	4.111	131.117333
1403	10	2012-04-27	1712987.56	0	80.11	4.088	131.126667
1404	10	2012-05-04	1821364.42	0	77.02	4.058	131.136000
1405	10	2012-05-11	1792345.30	0	76.03	4.186	131.145333
1406	10	2012-05-18	1795152.73	0	85.19	4.308	131.098323
1407	10	2012-05-25	1830939.10	0	86.03	4.127	131.028774
1408	10	2012-06-01	1767471.48	0	80.06	4.277	130.959226
1409	10	2012-06-08	1840491.41	0	86.87	4.103	130.889677
1410	10	2012-06-15	1811562.88	0	88.58	4.144	130.829533
1411	10	2012-06-22	1755334.18	0	89.92	4.014	130.792900
1412	10	2012-06-29	1707481.90	0	91.36	3.875	130.756267
1413	10	2012-07-06	1805999.79	0	86.87	3.666	130.719633
1414	10	2012-07-13	1765571.91	0	89.80	3.723	130.683000

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
1415	10	2012-07-20	1869967.03	0	84.45	3.589	130.701290
1416	10	2012-07-27	1817603.66	0	83.98	3.769	130.719581
1417	10	2012-08-03	1939440.09	0	84.76	3.595	130.737871
1418	10	2012-08-10	1880436.94	0	90.78	3.811	130.756161
1419	10	2012-08-17	1827797.40	0	88.83	4.002	130.790968
1420	10	2012-08-24	1764984.15	0	82.50	4.055	130.838161
1421	10	2012-08-31	1650285.54	0	86.97	3.886	130.885355
1422	10	2012-09-07	1708283.28	1	83.07	4.124	130.932548
1423	10	2012-09-14	1640168.99	0	78.47	3.966	130.977667
1424	10	2012-09-21	1671857.57	0	81.93	4.125	131.010333
1425	10	2012-09-28	1694862.41	0	82.52	3.966	131.043000
1426	10	2012-10-05	1758971.38	0	80.88	4.132	131.075667
1427	10	2012-10-12	1713889.11	0	76.03	4.468	131.108333
1428	10	2012-10-19	1734834.82	0	72.71	4.449	131.149968
1429	10	2012-10-26	1744349.05	0	70.50	4.301	131.193097
1530	11	2012-01-06	1283885.55	0	54.44	3.157	223.192305
1531	11	2012-01-13	1264736.59	0	53.10	3.261	223.375526
1532	11	2012-01-20	1207303.29	0	56.43	3.268	223.470055
1533	11	2012-01-27	1162675.85	0	58.36	3.290	223.564584
1534	11	2012-02-03	1376732.18	0	60.24	3.360	223.659114
1535	11	2012-02-10	1574287.76	1	52.23	3.409	223.753643
1536	11	2012-02-17	1569607.94	0	52.77	3.510	223.917015
1537	11	2012-02-24	1379473.03	0	61.11	3.555	224.132020
1538	11	2012-03-02	1438383.44	0	62.61	3.630	224.347025
1539	11	2012-03-09	1413382.76	0	61.44	3.669	224.562029
1540	11	2012-03-16	1441884.28	0	64.21	3.734	224.716695
1541	11	2012-03-23	1300593.61	0	67.16	3.787	224.790910
1542	11	2012-03-30	1300104.03	0	70.23	3.845	224.865125
1543	11	2012-04-06	1596325.01	0	74.19	3.891	224.939340
1544	11	2012-04-13	1472752.01	0	72.74	3.891	225.013556
1545	11	2012-04-20	1315356.99	0	71.97	3.877	225.068954
1546	11	2012-04-27	1236238.29	0	73.40	3.814	225.124353
1547	11	2012-05-04	1370251.22	0	79.07	3.749	225.179751
1548	11	2012-05-11	1300147.07	0	75.13	3.688	225.235150
1549	11	2012-05-18	1352442.31	0	72.53	3.630	225.251202
1550	11	2012-05-25	1297335.87	0	78.44	3.561	225.251517
1551	11	2012-06-01	1361595.33	0	81.67	3.501	225.251831
1552	11	2012-06-08	1414343.53	0	82.10	3.452	225.252146

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
1553	11	2012-06-15	1417875.42	0	84.97	3.393	225.264479
1554	11	2012-06-22	1355680.30	0	83.26	3.346	225.306861
1555	11	2012-06-29	1297028.60	0	87.86	3.286	225.349244
1556	11	2012-07-06	1461129.94	0	83.44	3.227	225.391625
1557	11	2012-07-13	1320239.51	0	82.46	3.256	225.434007
1558	11	2012-07-20	1344483.81	0	82.41	3.311	225.443883
1559	11	2012-07-27	1272395.02	0	85.43	3.407	225.453758
1560	11	2012-08-03	1399341.07	0	86.94	3.417	225.463633
1561	11	2012-08-10	1388973.65	0	86.21	3.494	225.473509
1562	11	2012-08-17	1421307.20	0	87.73	3.571	225.555866
1563	11	2012-08-24	1409515.73	0	83.17	3.620	225.692586
1564	11	2012-08-31	1372872.35	0	86.49	3.638	225.829306
1565	11	2012-09-07	1304584.40	1	85.17	3.730	225.966026
1566	11	2012-09-14	1267675.05	0	79.61	3.717	226.112207
1567	11	2012-09-21	1326132.98	0	73.64	3.721	226.315150
1568	11	2012-09-28	1227430.73	0	77.67	3.666	226.518093
1569	11	2012-10-05	1422794.26	0	73.37	3.617	226.721036
1570	11	2012-10-12	1311965.09	0	69.94	3.601	226.923979
1571	11	2012-10-19	1232073.18	0	73.77	3.594	226.968844
1572	11	2012-10-26	1200729.45	0	74.26	3.506	226.987364
1673	12	2012-01-06	945823.65	0	50.43	3.599	130.157516
1674	12	2012-01-13	865467.86	0	48.07	3.657	130.244000
1675	12	2012-01-20	855922.64	0	46.20	3.660	130.279226
1676	12	2012-01-27	888203.69	0	50.43	3.675	130.314452
1677	12	2012-02-03	1058767.95	0	50.58	3.702	130.349677
1678	12	2012-02-10	1199330.85	1	52.27	3.722	130.384903
1679	12	2012-02-17	1240048.85	0	51.80	3.781	130.454621
1680	12	2012-02-24	1112034.72	0	53.13	3.950	130.550207
1681	12	2012-03-02	1147636.96	0	52.27	4.178	130.645793
1682	12	2012-03-09	1113208.57	0	54.54	4.250	130.741379
1683	12	2012-03-16	1088498.52	0	64.44	4.273	130.826193
1684	12	2012-03-23	1045419.87	0	56.26	4.038	130.896645
1685	12	2012-03-30	1025382.22	0	64.36	4.294	130.967097
1686	12	2012-04-06	1128765.71	0	64.05	4.121	131.037548
1687	12	2012-04-13	1083811.19	0	64.28	4.254	131.108000
1688	12	2012-04-20	1006486.96	0	66.73	4.222	131.117333
1689	12	2012-04-27	1004252.38	0	77.99	4.193	131.126667
1690	12	2012-05-04	1073433.69	0	76.03	4.171	131.136000

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
1691	12	2012-05-11	1041995.22	0	77.27	4.186	131.145333
1692	12	2012-05-18	1020486.05	0	84.51	4.110	131.098323
1693	12	2012-05-25	991514.21	0	83.84	4.293	131.028774
1694	12	2012-06-01	981345.20	0	78.11	4.277	130.959226
1695	12	2012-06-08	1086231.47	0	84.83	4.103	130.889677
1696	12	2012-06-15	1019555.51	0	85.94	4.144	130.829533
1697	12	2012-06-22	981386.25	0	91.61	4.014	130.792900
1698	12	2012-06-29	943124.74	0	90.47	3.875	130.756267
1699	12	2012-07-06	1014898.78	0	89.13	3.765	130.719633
1700	12	2012-07-13	960312.75	0	95.61	3.723	130.683000
1701	12	2012-07-20	941550.34	0	85.53	3.726	130.701290
1702	12	2012-07-27	916967.92	0	93.47	3.769	130.719581
1703	12	2012-08-03	958667.23	0	88.16	3.760	130.737871
1704	12	2012-08-10	984689.90	0	95.91	3.811	130.756161
1705	12	2012-08-17	1005003.12	0	94.87	4.002	130.790968
1706	12	2012-08-24	1048101.39	0	85.32	4.055	130.838161
1707	12	2012-08-31	1061943.49	0	89.78	4.093	130.885355
1708	12	2012-09-07	955146.04	1	88.52	4.124	130.932548
1709	12	2012-09-14	885892.37	0	83.64	4.133	130.977667
1710	12	2012-09-21	922735.37	0	82.97	4.125	131.010333
1711	12	2012-09-28	880415.67	0	81.22	3.966	131.043000
1712	12	2012-10-05	979825.92	0	81.61	3.966	131.075667
1713	12	2012-10-12	934917.47	0	71.74	4.468	131.108333
1714	12	2012-10-19	960945.43	0	68.66	4.449	131.149968
1715	12	2012-10-26	974697.60	0	65.95	4.301	131.193097
1816	13	2012-01-06	1865752.78	0	33.80	3.080	130.157516
1817	13	2012-01-13	1794962.64	0	25.61	3.056	130.244000
1818	13	2012-01-20	1811606.21	0	32.71	3.047	130.279226
1819	13	2012-01-27	1733983.09	0	34.32	3.058	130.314452
1820	13	2012-02-03	1927780.74	0	31.39	3.077	130.349677
1821	13	2012-02-10	2069284.57	1	33.73	3.116	130.384903
1822	13	2012-02-17	2214477.06	0	36.57	3.119	130.454621
1823	13	2012-02-24	1929768.03	0	35.38	3.145	130.550207
1824	13	2012-03-02	1969742.76	0	32.36	3.242	130.645793
1825	13	2012-03-09	1986445.65	0	38.24	3.380	130.741379
1826	13	2012-03-16	2025582.62	0	52.50	3.529	130.826193
1827	13	2012-03-23	1904421.74	0	47.83	3.671	130.896645
1828	13	2012-03-30	1948982.70	0	53.20	3.734	130.967097

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
1829	13	2012-04-06	2271614.76	0	48.85	3.793	131.037548
1830	13	2012-04-13	2057637.86	0	51.70	3.833	131.108000
1831	13	2012-04-20	1955689.12	0	50.24	3.845	131.117333
1832	13	2012-04-27	1970121.65	0	64.80	3.842	131.126667
1833	13	2012-05-04	1995994.51	0	54.41	3.831	131.136000
1834	13	2012-05-11	2080764.17	0	56.47	3.809	131.145333
1835	13	2012-05-18	2131900.55	0	65.17	3.808	131.098323
1836	13	2012-05-25	2043349.41	0	62.39	3.801	131.028774
1837	13	2012-06-01	2035431.39	0	61.11	3.788	130.959226
1838	13	2012-06-08	2182437.90	0	68.40	3.776	130.889677
1839	13	2012-06-15	2152229.11	0	65.97	3.756	130.829533
1840	13	2012-06-22	2094373.00	0	72.89	3.737	130.792900
1841	13	2012-06-29	2037663.71	0	82.00	3.681	130.756267
1842	13	2012-07-06	2184980.35	0	79.23	3.630	130.719633
1843	13	2012-07-13	2002750.99	0	83.68	3.595	130.683000
1844	13	2012-07-20	2053089.32	0	75.69	3.556	130.701290
1845	13	2012-07-27	1914430.53	0	80.42	3.537	130.719581
1846	13	2012-08-03	2044148.23	0	81.99	3.512	130.737871
1847	13	2012-08-10	2041019.92	0	81.69	3.509	130.756161
1848	13	2012-08-17	2095769.18	0	79.40	3.545	130.790968
1849	13	2012-08-24	2059458.25	0	77.37	3.582	130.838161
1850	13	2012-08-31	2073855.42	0	79.18	3.624	130.885355
1851	13	2012-09-07	2165796.31	1	70.65	3.689	130.932548
1852	13	2012-09-14	1919917.03	0	68.55	3.749	130.977667
1853	13	2012-09-21	1938379.66	0	67.96	3.821	131.010333
1854	13	2012-09-28	1927664.11	0	64.80	3.821	131.043000
1855	13	2012-10-05	2041918.74	0	61.79	3.815	131.075667
1856	13	2012-10-12	1999079.44	0	55.10	3.797	131.108333
1857	13	2012-10-19	2018010.15	0	52.06	3.781	131.149968
1858	13	2012-10-26	2035189.66	0	46.97	3.755	131.193097
1959	14	2012-01-06	1859144.96	0	35.88	3.422	189.194056
1960	14	2012-01-13	1696248.27	0	41.18	3.513	189.326096
1961	14	2012-01-20	1789113.32	0	31.85	3.533	189.421473
1962	14	2012-01-27	1595362.27	0	37.93	3.567	189.516851
1963	14	2012-02-03	1877410.36	0	42.96	3.617	189.612228
1964	14	2012-02-10	2077256.24	1	37.00	3.640	189.707605
1965	14	2012-02-17	2020550.99	0	36.85	3.695	189.842483
1966	14	2012-02-24	1875040.16	0	42.86	3.739	190.006988

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
1967	14	2012-03-02	1926004.99	0	41.55	3.816	190.171493
1968	14	2012-03-09	2020839.31	0	45.52	3.848	190.335997
1969	14	2012-03-16	1941040.50	0	50.56	3.862	190.461896
1970	14	2012-03-23	1893447.71	0	59.45	3.900	190.536321
1971	14	2012-03-30	1905033.01	0	50.04	3.953	190.610746
1972	14	2012-04-06	2376022.26	0	49.73	3.996	190.685171
1973	14	2012-04-13	1912909.69	0	51.83	4.044	190.759596
1974	14	2012-04-20	1875686.44	0	63.13	4.027	190.813801
1975	14	2012-04-27	1784029.95	0	53.20	4.004	190.868006
1976	14	2012-05-04	1949354.29	0	55.21	3.951	190.922212
1977	14	2012-05-11	1987531.05	0	61.24	3.889	190.976417
1978	14	2012-05-18	1932233.17	0	66.30	3.848	190.996448
1979	14	2012-05-25	2030869.61	0	67.21	3.798	191.002810
1980	14	2012-06-01	2049485.49	0	74.48	3.742	191.009171
1981	14	2012-06-08	2099615.88	0	64.30	3.689	191.015533
1982	14	2012-06-15	1905733.68	0	71.93	3.620	191.029973
1983	14	2012-06-22	1660228.88	0	74.22	3.564	191.064610
1984	14	2012-06-29	1591835.02	0	75.22	3.506	191.099246
1985	14	2012-07-06	1862128.95	0	82.99	3.475	191.133883
1986	14	2012-07-13	1544422.35	0	79.97	3.523	191.168519
1987	14	2012-07-20	1553250.16	0	78.89	3.567	191.167043
1988	14	2012-07-27	1479514.66	0	77.20	3.647	191.165566
1989	14	2012-08-03	1656886.46	0	76.58	3.654	191.164090
1990	14	2012-08-10	1648570.03	0	78.65	3.722	191.162613
1991	14	2012-08-17	1660433.30	0	75.71	3.807	191.228492
1992	14	2012-08-24	1621841.33	0	72.62	3.834	191.344887
1993	14	2012-08-31	1613342.19	0	75.09	3.867	191.461281
1994	14	2012-09-07	1904512.34	1	75.70	3.911	191.577676
1995	14	2012-09-14	1554794.22	0	67.87	3.948	191.699850
1996	14	2012-09-21	1565352.46	0	65.32	4.038	191.856704
1997	14	2012-09-28	1522512.20	0	64.88	3.997	192.013558
1998	14	2012-10-05	1687592.16	0	64.89	3.985	192.170412
1999	14	2012-10-12	1639585.61	0	54.47	4.000	192.327265
2000	14	2012-10-19	1590274.72	0	56.47	3.969	192.330854
2001	14	2012-10-26	1704357.62	0	58.85	3.882	192.308899
2102	15	2012-01-06	516087.65	0	30.24	3.585	136.698129
2103	15	2012-01-13	454183.42	0	36.26	3.666	136.753000
2104	15	2012-01-20	492721.85	0	21.39	3.705	136.856419

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
2105	15	2012-01-27	466045.63	0	30.87	3.737	136.959839
2106	15	2012-02-03	523831.64	0	35.30	3.796	137.063258
2107	15	2012-02-10	628218.22	1	31.91	3.826	137.166677
2108	15	2012-02-17	598502.83	0	30.26	3.874	137.258310
2109	15	2012-02-24	561137.06	0	33.18	3.917	137.341103
2110	15	2012-03-02	541292.64	0	33.24	3.983	137.423897
2111	15	2012-03-09	545120.67	0	36.97	4.021	137.506690
2112	15	2012-03-16	570611.23	0	47.42	4.021	137.584387
2113	15	2012-03-23	565481.88	0	58.92	4.054	137.655290
2114	15	2012-03-30	557547.25	0	42.65	4.098	137.726193
2115	15	2012-04-06	659950.36	0	40.01	4.143	137.797097
2116	15	2012-04-13	558585.13	0	43.52	4.187	137.868000
2117	15	2012-04-20	534780.57	0	54.47	4.170	137.923067
2118	15	2012-04-27	527402.62	0	41.57	4.163	137.978133
2119	15	2012-05-04	577868.38	0	51.04	4.124	138.033200
2120	15	2012-05-11	579539.95	0	54.23	4.055	138.088267
2121	15	2012-05-18	600050.98	0	58.84	4.029	138.106581
2122	15	2012-05-25	693780.42	0	67.97	3.979	138.110194
2123	15	2012-06-01	663971.26	0	67.61	3.915	138.113807
2124	15	2012-06-08	611390.67	0	59.35	3.871	138.117419
2125	15	2012-06-15	636737.65	0	67.70	3.786	138.129533
2126	15	2012-06-22	687085.60	0	74.28	3.722	138.162900
2127	15	2012-06-29	624099.48	0	68.91	3.667	138.196267
2128	15	2012-07-06	678024.75	0	74.64	3.646	138.229633
2129	15	2012-07-13	591335.50	0	72.62	3.689	138.263000
2130	15	2012-07-20	592369.22	0	75.31	3.732	138.233193
2131	15	2012-07-27	571190.83	0	73.90	3.820	138.203387
2132	15	2012-08-03	590739.62	0	73.13	3.819	138.173581
2133	15	2012-08-10	590453.63	0	73.99	3.863	138.143774
2134	15	2012-08-17	579738.20	0	70.29	3.963	138.185710
2135	15	2012-08-24	606210.77	0	66.98	3.997	138.281452
2136	15	2012-08-31	610185.32	0	71.42	4.026	138.377194
2137	15	2012-09-07	587259.82	1	71.61	4.076	138.472936
2138	15	2012-09-14	527509.76	0	65.44	4.088	138.567300
2139	15	2012-09-21	533161.64	0	60.34	4.203	138.653400
2140	15	2012-09-28	553901.97	0	57.13	4.158	138.739500
2141	15	2012-10-05	573498.64	0	59.57	4.151	138.825600
2142	15	2012-10-12	551799.63	0	49.12	4.186	138.911700

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
2143	15	2012-10-19	555652.77	0	52.89	4.153	138.833613
2144	15	2012-10-26	558473.60	0	55.75	4.071	138.728161
2245	16	2012-01-06	564538.07	0	26.49	3.095	196.545831
2246	16	2012-01-13	508520.09	0	19.55	3.077	196.733052
2247	16	2012-01-20	474389.75	0	29.30	3.055	196.779665
2248	16	2012-01-27	453979.19	0	28.17	3.038	196.826279
2249	16	2012-02-03	475905.10	0	25.53	3.031	196.872892
2250	16	2012-02-10	473766.97	1	23.69	3.103	196.919506
2251	16	2012-02-17	494069.49	0	31.19	3.113	196.943271
2252	16	2012-02-24	495720.30	0	26.21	3.129	196.949901
2253	16	2012-03-02	464189.09	0	23.40	3.191	196.956530
2254	16	2012-03-09	495951.66	0	28.16	3.286	196.963160
2255	16	2012-03-16	520850.71	0	38.02	3.486	197.045721
2256	16	2012-03-23	493503.89	0	38.70	3.664	197.229523
2257	16	2012-03-30	485095.41	0	48.29	3.750	197.413326
2258	16	2012-04-06	502662.07	0	48.93	3.854	197.597128
2259	16	2012-04-13	450756.71	0	45.83	3.901	197.780931
2260	16	2012-04-20	436221.26	0	43.61	3.936	197.722738
2261	16	2012-04-27	398445.15	0	59.69	3.927	197.664546
2262	16	2012-05-04	426959.62	0	51.34	3.903	197.606353
2263	16	2012-05-11	479855.00	0	53.57	3.870	197.548161
2264	16	2012-05-18	493506.47	0	56.74	3.837	197.555314
2265	16	2012-05-25	518045.09	0	57.36	3.804	197.588605
2266	16	2012-06-01	532311.93	0	58.97	3.764	197.621895
2267	16	2012-06-08	603618.89	0	65.43	3.741	197.655186
2268	16	2012-06-15	570045.79	0	65.36	3.723	197.692292
2269	16	2012-06-22	581745.72	0	70.41	3.735	197.738934
2270	16	2012-06-29	570162.28	0	77.31	3.693	197.785577
2271	16	2012-07-06	641763.53	0	70.49	3.646	197.832220
2272	16	2012-07-13	569005.06	0	70.29	3.613	197.878862
2273	16	2012-07-20	565297.54	0	68.43	3.585	197.929038
2274	16	2012-07-27	539337.87	0	69.00	3.570	197.979214
2275	16	2012-08-03	584000.71	0	68.59	3.528	198.029389
2276	16	2012-08-10	554036.84	0	70.24	3.509	198.079565
2277	16	2012-08-17	521896.60	0	62.07	3.545	198.100106
2278	16	2012-08-24	551152.15	0	61.44	3.558	198.098420
2279	16	2012-08-31	551837.31	0	64.19	3.556	198.096734
2280	16	2012-09-07	537138.58	1	60.09	3.596	198.095048

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
2281	16	2012-09-14	526525.16	0	56.69	3.659	198.126718
2282	16	2012-09-21	509942.56	0	56.48	3.765	198.358523
2283	16	2012-09-28	469607.73	0	51.40	3.789	198.590328
2284	16	2012-10-05	471281.68	0	50.46	3.779	198.822132
2285	16	2012-10-12	491817.19	0	43.26	3.760	199.053937
2286	16	2012-10-19	577198.97	0	40.59	3.750	199.148196
2287	16	2012-10-26	475770.14	0	40.99	3.686	199.219532
2388	17	2012-01-06	1198104.22	0	27.64	3.080	130.157516
2389	17	2012-01-13	873576.96	0	20.28	3.056	130.244000
2390	17	2012-01-20	809272.65	0	27.26	3.047	130.279226
2391	17	2012-01-27	769522.33	0	29.99	3.058	130.314452
2392	17	2012-02-03	864852.85	0	26.26	3.077	130.349677
2393	17	2012-02-10	880165.70	1	23.63	3.116	130.384903
2394	17	2012-02-17	927084.65	0	30.76	3.119	130.454621
2395	17	2012-02-24	843864.43	0	30.01	3.145	130.550207
2396	17	2012-03-02	856178.47	0	26.28	3.242	130.645793
2397	17	2012-03-09	860224.98	0	32.02	3.380	130.741379
2398	17	2012-03-16	853136.46	0	43.69	3.529	130.826193
2399	17	2012-03-23	851762.28	0	40.69	3.671	130.896645
2400	17	2012-03-30	872469.03	0	45.29	3.734	130.967097
2401	17	2012-04-06	986922.62	0	43.92	3.793	131.037548
2402	17	2012-04-13	877055.32	0	46.94	3.833	131.108000
2403	17	2012-04-20	1119979.98	0	47.69	3.845	131.117333
2404	17	2012-04-27	925916.65	0	59.11	3.842	131.126667
2405	17	2012-05-04	930121.14	0	48.86	3.831	131.136000
2406	17	2012-05-11	944100.30	0	49.96	3.809	131.145333
2407	17	2012-05-18	968816.33	0	59.67	3.808	131.098323
2408	17	2012-05-25	984881.59	0	55.69	3.801	131.028774
2409	17	2012-06-01	938914.28	0	54.13	3.788	130.959226
2410	17	2012-06-08	987990.24	0	60.51	3.776	130.889677
2411	17	2012-06-15	964169.67	0	56.67	3.756	130.829533
2412	17	2012-06-22	981210.57	0	62.90	3.737	130.792900
2413	17	2012-06-29	982322.24	0	71.14	3.681	130.756267
2414	17	2012-07-06	1046782.52	0	68.91	3.630	130.719633
2415	17	2012-07-13	960746.04	0	72.94	3.595	130.683000
2416	17	2012-07-20	944698.70	0	70.59	3.556	130.701290
2417	17	2012-07-27	907493.24	0	74.20	3.537	130.719581
2418	17	2012-08-03	877813.33	0	72.94	3.512	130.737871

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
2419	17	2012-08-10	849074.04	0	73.29	3.509	130.756161
2420	17	2012-08-17	844928.17	0	70.98	3.545	130.790968
2421	17	2012-08-24	924299.78	0	68.89	3.582	130.838161
2422	17	2012-08-31	865924.20	0	68.07	3.624	130.885355
2423	17	2012-09-07	1255633.29	1	61.99	3.689	130.932548
2424	17	2012-09-14	1071040.22	0	59.64	3.749	130.977667
2425	17	2012-09-21	938303.28	0	58.43	3.821	131.010333
2426	17	2012-09-28	972716.24	0	57.77	3.821	131.043000
2427	17	2012-10-05	952609.17	0	52.81	3.815	131.075667
2428	17	2012-10-12	919878.34	0	44.82	3.797	131.108333
2429	17	2012-10-19	957356.84	0	48.16	3.781	131.149968
2430	17	2012-10-26	943465.29	0	39.94	3.755	131.193097
2531	18	2012-01-06	977286.07	0	31.27	3.439	136.698129
2532	18	2012-01-13	890130.25	0	35.25	3.523	136.753000
2533	18	2012-01-20	937522.77	0	24.20	3.542	136.856419
2534	18	2012-01-27	825584.22	0	30.44	3.568	136.959839
2535	18	2012-02-03	1049772.04	0	37.62	3.633	137.063258
2536	18	2012-02-10	1161615.51	1	32.83	3.655	137.166677
2537	18	2012-02-17	1115985.81	0	32.87	3.703	137.258310
2538	18	2012-02-24	1037861.11	0	36.34	3.751	137.341103
2539	18	2012-03-02	1047178.91	0	33.59	3.827	137.423897
2540	18	2012-03-09	1084894.47	0	38.10	3.876	137.506690
2541	18	2012-03-16	1022018.43	0	45.84	3.867	137.584387
2542	18	2012-03-23	1031139.30	0	58.06	3.889	137.655290
2543	18	2012-03-30	1009121.20	0	45.35	3.921	137.726193
2544	18	2012-04-06	1200815.30	0	43.80	3.957	137.797097
2545	18	2012-04-13	998443.50	0	47.75	4.025	137.868000
2546	18	2012-04-20	1025813.80	0	60.88	4.046	137.923067
2547	18	2012-04-27	961186.23	0	50.43	4.023	137.978133
2548	18	2012-05-04	1050027.89	0	49.66	3.991	138.033200
2549	18	2012-05-11	1060433.10	0	57.44	3.947	138.088267
2550	18	2012-05-18	1047444.59	0	62.31	3.899	138.106581
2551	18	2012-05-25	1088446.58	0	65.48	3.850	138.110194
2552	18	2012-06-01	1118313.70	0	71.42	3.798	138.113807
2553	18	2012-06-08	1110479.94	0	59.10	3.746	138.117419
2554	18	2012-06-15	1057425.83	0	66.58	3.683	138.129533
2555	18	2012-06-22	1080357.89	0	70.92	3.629	138.162900
2556	18	2012-06-29	1097006.30	0	70.17	3.577	138.196267

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
2557	18	2012-07-06	1158247.31	0	76.08	3.538	138.229633
2558	18	2012-07-13	1024784.92	0	75.09	3.561	138.263000
2559	18	2012-07-20	1033543.56	0	77.43	3.610	138.233193
2560	18	2012-07-27	924506.26	0	72.97	3.701	138.203387
2561	18	2012-08-03	1052066.58	0	72.67	3.698	138.173581
2562	18	2012-08-10	967304.07	0	75.70	3.772	138.143774
2563	18	2012-08-17	1048134.24	0	73.25	3.840	138.185710
2564	18	2012-08-24	1145840.91	0	68.52	3.874	138.281452
2565	18	2012-08-31	1117097.23	0	70.09	3.884	138.377194
2566	18	2012-09-07	1083521.24	1	71.85	3.921	138.472936
2567	18	2012-09-14	960476.10	0	64.45	3.988	138.567300
2568	18	2012-09-21	971386.65	0	60.23	4.056	138.653400
2569	18	2012-09-28	1002856.20	0	58.24	4.018	138.739500
2570	18	2012-10-05	1092204.79	0	59.68	4.027	138.825600
2571	18	2012-10-12	1074079.00	0	50.97	4.029	138.911700
2572	18	2012-10-19	1048706.75	0	51.96	4.000	138.833613
2573	18	2012-10-26	1127516.25	0	56.09	3.917	138.728161
2674	19	2012-01-06	1266570.40	0	31.84	3.585	136.698129
2675	19	2012-01-13	1182198.70	0	37.08	3.666	136.753000
2676	19	2012-01-20	1237104.73	0	23.44	3.705	136.856419
2677	19	2012-01-27	1279623.26	0	32.41	3.737	136.959839
2678	19	2012-02-03	1345311.65	0	36.22	3.796	137.063258
2679	19	2012-02-10	1499496.67	1	32.61	3.826	137.166677
2680	19	2012-02-17	1424720.27	0	30.95	3.874	137.258310
2681	19	2012-02-24	1352470.09	0	33.91	3.917	137.341103
2682	19	2012-03-02	1308977.05	0	34.83	3.983	137.423897
2683	19	2012-03-09	1358816.46	0	38.15	4.021	137.506690
2684	19	2012-03-16	1312849.10	0	48.20	4.021	137.584387
2685	19	2012-03-23	1342254.55	0	56.72	4.054	137.655290
2686	19	2012-03-30	1327139.35	0	43.47	4.098	137.726193
2687	19	2012-04-06	1631737.68	0	40.23	4.143	137.797097
2688	19	2012-04-13	1365098.46	0	44.42	4.187	137.868000
2689	19	2012-04-20	1255087.26	0	55.20	4.170	137.923067
2690	19	2012-04-27	1285897.24	0	42.45	4.163	137.978133
2691	19	2012-05-04	1405007.44	0	50.76	4.124	138.033200
2692	19	2012-05-11	1442873.22	0	55.33	4.055	138.088267
2693	19	2012-05-18	1366937.10	0	58.81	4.029	138.106581
2694	19	2012-05-25	1485540.28	0	67.79	3.979	138.110194

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
2695	19	2012-06-01	1450733.29	0	68.18	3.915	138.113807
2696	19	2012-06-08	1390122.11	0	60.19	3.871	138.117419
2697	19	2012-06-15	1440263.15	0	68.19	3.786	138.129533
2698	19	2012-06-22	1468350.36	0	75.83	3.722	138.162900
2699	19	2012-06-29	1379652.65	0	69.92	3.667	138.196267
2700	19	2012-07-06	1557120.44	0	76.07	3.646	138.229633
2701	19	2012-07-13	1321741.35	0	73.17	3.689	138.263000
2702	19	2012-07-20	1317672.92	0	76.17	3.732	138.233193
2703	19	2012-07-27	1248915.43	0	74.43	3.820	138.203387
2704	19	2012-08-03	1342123.78	0	73.41	3.819	138.173581
2705	19	2012-08-10	1408907.89	0	74.45	3.863	138.143774
2706	19	2012-08-17	1375101.26	0	69.83	3.963	138.185710
2707	19	2012-08-24	1544653.37	0	66.66	3.997	138.281452
2708	19	2012-08-31	1542719.87	0	71.85	4.026	138.377194
2709	19	2012-09-07	1497073.82	1	72.20	4.076	138.472936
2710	19	2012-09-14	1370653.41	0	65.08	4.088	138.567300
2711	19	2012-09-21	1338572.29	0	60.62	4.203	138.653400
2712	19	2012-09-28	1338299.02	0	56.81	4.158	138.739500
2713	19	2012-10-05	1408016.10	0	59.86	4.151	138.825600
2714	19	2012-10-12	1352809.50	0	48.29	4.186	138.911700
2715	19	2012-10-19	1321102.35	0	53.44	4.153	138.833613
2716	19	2012-10-26	1322117.96	0	56.49	4.071	138.728161
2817	20	2012-01-06	1964701.94	0	33.42	3.422	212.571112
2818	20	2012-01-13	1911510.64	0	37.79	3.513	212.738649
2819	20	2012-01-20	1892775.94	0	27.65	3.533	212.833640
2820	20	2012-01-27	1761016.51	0	37.19	3.567	212.928631
2821	20	2012-02-03	2203523.20	0	39.93	3.617	213.023622
2822	20	2012-02-10	2462978.28	1	33.47	3.640	213.118614
2823	20	2012-02-17	2309025.16	0	31.11	3.695	213.273211
2824	20	2012-02-24	2045837.55	0	39.79	3.739	213.472512
2825	20	2012-03-02	2148822.76	0	39.98	3.816	213.671813
2826	20	2012-03-09	2139265.40	0	41.14	3.848	213.871114
2827	20	2012-03-16	2064991.71	0	53.73	3.862	214.016713
2828	20	2012-03-23	1992436.96	0	66.11	3.900	214.090711
2829	20	2012-03-30	2074721.74	0	51.52	3.953	214.164708
2830	20	2012-04-06	2565259.92	0	50.06	3.996	214.238705
2831	20	2012-04-13	2045396.06	0	45.68	4.044	214.312703
2832	20	2012-04-20	1884427.84	0	60.11	4.027	214.367504

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
2833	20	2012-04-27	1886503.93	0	47.64	4.004	214.422306
2834	20	2012-05-04	2163510.89	0	62.74	3.951	214.477108
2835	20	2012-05-11	2168097.11	0	63.19	3.889	214.531910
2836	20	2012-05-18	2039222.26	0	60.99	3.848	214.548557
2837	20	2012-05-25	2114989.00	0	70.04	3.798	214.549942
2838	20	2012-06-01	2143126.59	0	73.67	3.742	214.551328
2839	20	2012-06-08	2231962.13	0	62.01	3.689	214.552713
2840	20	2012-06-15	2165160.29	0	71.51	3.620	214.565324
2841	20	2012-06-22	2060588.69	0	76.51	3.564	214.606000
2842	20	2012-06-29	2055952.61	0	74.15	3.506	214.646676
2843	20	2012-07-06	2358055.30	0	79.20	3.475	214.687351
2844	20	2012-07-13	2134680.12	0	78.27	3.523	214.728027
2845	20	2012-07-20	1970170.29	0	76.04	3.567	214.733135
2846	20	2012-07-27	1911559.10	0	74.60	3.647	214.738243
2847	20	2012-08-03	2094515.71	0	74.73	3.654	214.743351
2848	20	2012-08-10	2144245.39	0	75.40	3.722	214.748459
2849	20	2012-08-17	2045061.22	0	69.57	3.807	214.825578
2850	20	2012-08-24	2005341.43	0	68.27	3.834	214.956704
2851	20	2012-08-31	2062481.56	0	72.66	3.867	215.087831
2852	20	2012-09-07	2080529.06	1	76.36	3.911	215.218957
2853	20	2012-09-14	2047949.98	0	64.84	3.948	215.358376
2854	20	2012-09-21	2028587.24	0	60.94	4.038	215.547546
2855	20	2012-09-28	2008350.58	0	58.65	3.997	215.736716
2856	20	2012-10-05	2246411.89	0	60.77	3.985	215.925886
2857	20	2012-10-12	2162951.36	0	47.20	4.000	216.115057
2858	20	2012-10-19	1999363.49	0	56.26	3.969	216.146470
2859	20	2012-10-26	2031650.55	0	60.04	3.882	216.151590
2960	21	2012-01-06	640181.86	0	48.10	3.157	219.355063
2961	21	2012-01-13	631181.25	0	45.00	3.261	219.532820
2962	21	2012-01-20	651178.20	0	52.21	3.268	219.625842
2963	21	2012-01-27	611258.71	0	50.79	3.290	219.718864
2964	21	2012-02-03	680725.43	0	55.83	3.360	219.811885
2965	21	2012-02-10	770652.79	1	46.52	3.409	219.904907
2966	21	2012-02-17	834663.52	0	45.03	3.510	220.065199
2967	21	2012-02-24	747099.07	0	54.81	3.555	220.275944
2968	21	2012-03-02	764385.40	0	59.30	3.630	220.486689
2969	21	2012-03-09	755084.40	0	57.16	3.669	220.697433
2970	21	2012-03-16	767338.32	0	63.39	3.734	220.849847

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
2971	21	2012-03-23	729759.97	0	62.96	3.787	220.924486
2972	21	2012-03-30	724798.76	0	67.87	3.845	220.999125
2973	21	2012-04-06	761956.58	0	69.02	3.891	221.073764
2974	21	2012-04-13	769319.04	0	69.03	3.891	221.148403
2975	21	2012-04-20	734858.91	0	66.97	3.877	221.202107
2976	21	2012-04-27	674829.58	0	69.21	3.814	221.255812
2977	21	2012-05-04	697645.32	0	77.53	3.749	221.309517
2978	21	2012-05-11	649945.54	0	74.14	3.688	221.363221
2979	21	2012-05-18	700554.16	0	72.42	3.630	221.380331
2980	21	2012-05-25	722891.24	0	79.49	3.561	221.382803
2981	21	2012-06-01	695439.83	0	79.24	3.501	221.385275
2982	21	2012-06-08	707895.72	0	79.47	3.452	221.387747
2983	21	2012-06-15	727049.04	0	81.51	3.393	221.400990
2984	21	2012-06-22	735870.00	0	81.78	3.346	221.441162
2985	21	2012-06-29	716341.39	0	88.05	3.286	221.481334
2986	21	2012-07-06	693013.59	0	85.26	3.227	221.521506
2987	21	2012-07-13	668132.36	0	82.51	3.256	221.561678
2988	21	2012-07-20	691200.33	0	84.25	3.311	221.570112
2989	21	2012-07-27	677789.14	0	88.09	3.407	221.578546
2990	21	2012-08-03	693785.85	0	91.57	3.417	221.586980
2991	21	2012-08-10	700272.01	0	89.57	3.494	221.595414
2992	21	2012-08-17	751963.81	0	85.55	3.571	221.675146
2993	21	2012-08-24	802003.61	0	77.72	3.620	221.808352
2994	21	2012-08-31	763867.59	0	83.58	3.638	221.941558
2995	21	2012-09-07	642827.29	1	88.40	3.730	222.074763
2996	21	2012-09-14	628494.63	0	76.10	3.717	222.217440
2997	21	2012-09-21	667151.46	0	71.54	3.721	222.416936
2998	21	2012-09-28	647097.65	0	80.38	3.666	222.616433
2999	21	2012-10-05	651768.91	0	70.28	3.617	222.815930
3000	21	2012-10-12	653043.44	0	61.53	3.601	223.015426
3001	21	2012-10-19	641368.14	0	68.52	3.594	223.059808
3002	21	2012-10-26	675202.87	0	70.50	3.506	223.078337
3103	22	2012-01-06	895358.20	0	34.61	3.439	140.646136
3104	22	2012-01-13	855437.57	0	39.00	3.523	140.704821
3105	22	2012-01-20	897027.44	0	29.16	3.542	140.808612
3106	22	2012-01-27	786459.23	0	35.68	3.568	140.912402
3107	22	2012-02-03	958487.75	0	40.58	3.633	141.016192
3108	22	2012-02-10	1034448.07	1	35.68	3.655	141.119983

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
3109	22	2012-02-17	1004749.41	0	36.25	3.703	141.214036
3110	22	2012-02-24	912958.95	0	39.00	3.751	141.300786
3111	22	2012-03-02	974866.65	0	37.47	3.827	141.387536
3112	22	2012-03-09	991127.01	0	41.72	3.876	141.474286
3113	22	2012-03-16	966780.01	0	46.06	3.867	141.554780
3114	22	2012-03-23	992774.40	0	54.68	3.889	141.626933
3115	22	2012-03-30	965769.93	0	46.40	3.921	141.699086
3116	22	2012-04-06	1197489.66	0	46.38	3.957	141.771240
3117	22	2012-04-13	939118.24	0	49.89	4.025	141.843393
3118	22	2012-04-20	1000342.87	0	58.81	4.046	141.901526
3119	22	2012-04-27	922539.94	0	51.42	4.023	141.959659
3120	22	2012-05-04	1005083.31	0	50.75	3.991	142.017793
3121	22	2012-05-11	997868.63	0	56.72	3.947	142.075926
3122	22	2012-05-18	986612.02	0	61.90	3.899	142.097012
3123	22	2012-05-25	1047297.38	0	62.39	3.850	142.103278
3124	22	2012-06-01	1102857.37	0	70.01	3.798	142.109544
3125	22	2012-06-08	1061134.37	0	61.71	3.746	142.115810
3126	22	2012-06-15	1061219.19	0	66.56	3.683	142.129255
3127	22	2012-06-22	1112449.30	0	70.61	3.629	142.160646
3128	22	2012-06-29	1053881.78	0	70.99	3.577	142.192038
3129	22	2012-07-06	1097786.14	0	77.41	3.538	142.223430
3130	22	2012-07-13	971361.38	0	75.81	3.561	142.254821
3131	22	2012-07-20	991969.37	0	76.57	3.610	142.233757
3132	22	2012-07-27	925731.21	0	73.52	3.701	142.212692
3133	22	2012-08-03	1007257.83	0	72.99	3.698	142.191628
3134	22	2012-08-10	973812.79	0	76.74	3.772	142.170563
3135	22	2012-08-17	981273.26	0	74.92	3.840	142.215738
3136	22	2012-08-24	1060906.75	0	70.42	3.874	142.310593
3137	22	2012-08-31	1022270.86	0	71.93	3.884	142.405448
3138	22	2012-09-07	996628.80	1	73.30	3.921	142.500303
3139	22	2012-09-14	918049.28	0	66.42	3.988	142.593883
3140	22	2012-09-21	921612.53	0	63.38	4.056	142.679817
3141	22	2012-09-28	976479.51	0	62.17	4.018	142.765750
3142	22	2012-10-05	1009887.36	0	62.09	4.027	142.851683
3143	22	2012-10-12	1004039.84	0	54.18	4.029	142.937617
3144	22	2012-10-19	978027.95	0	55.28	4.000	142.863363
3145	22	2012-10-26	1094422.69	0	57.58	3.917	142.762411
3246	23	2012-01-06	1150662.55	0	24.29	3.439	136.698129

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
3247	23	2012-01-13	1031451.35	0	28.49	3.523	136.753000
3248	23	2012-01-20	1146992.13	0	15.33	3.542	136.856419
3249	23	2012-01-27	1037476.38	0	25.71	3.568	136.959839
3250	23	2012-02-03	1261872.67	0	29.71	3.633	137.063258
3251	23	2012-02-10	1358444.07	1	26.60	3.655	137.166677
3252	23	2012-02-17	1365546.69	0	27.01	3.703	137.258310
3253	23	2012-02-24	1272948.27	0	31.12	3.751	137.341103
3254	23	2012-03-02	1322852.20	0	25.91	3.827	137.423897
3255	23	2012-03-09	1292724.90	0	33.11	3.876	137.506690
3256	23	2012-03-16	1258364.31	0	41.19	3.867	137.584387
3257	23	2012-03-23	1288154.10	0	57.82	3.889	137.655290
3258	23	2012-03-30	1261964.96	0	36.71	3.921	137.726193
3259	23	2012-04-06	1604605.69	0	37.43	3.957	137.797097
3260	23	2012-04-13	1231752.54	0	41.81	4.025	137.868000
3261	23	2012-04-20	1287899.41	0	56.55	4.046	137.923067
3262	23	2012-04-27	1277758.76	0	44.62	4.023	137.978133
3263	23	2012-05-04	1317379.68	0	45.88	3.991	138.033200
3264	23	2012-05-11	1321914.34	0	52.90	3.947	138.088267
3265	23	2012-05-18	1332952.47	0	58.42	3.899	138.106581
3266	23	2012-05-25	1552934.64	0	66.43	3.850	138.110194
3267	23	2012-06-01	1476144.34	0	66.22	3.798	138.113807
3268	23	2012-06-08	1568048.54	0	56.82	3.746	138.117419
3269	23	2012-06-15	1543667.68	0	64.73	3.683	138.129533
3270	23	2012-06-22	1522042.57	0	71.82	3.629	138.162900
3271	23	2012-06-29	1451782.16	0	64.23	3.577	138.196267
3272	23	2012-07-06	1545370.16	0	70.86	3.538	138.229633
3273	23	2012-07-13	1384921.63	0	69.19	3.561	138.263000
3274	23	2012-07-20	1381339.23	0	71.13	3.610	138.233193
3275	23	2012-07-27	1322932.36	0	69.31	3.701	138.203387
3276	23	2012-08-03	1416926.31	0	71.51	3.698	138.173581
3277	23	2012-08-10	1436311.76	0	71.12	3.772	138.143774
3278	23	2012-08-17	1510131.45	0	69.97	3.840	138.185710
3279	23	2012-08-24	1702220.96	0	64.63	3.874	138.281452
3280	23	2012-08-31	1577468.78	0	68.34	3.884	138.377194
3281	23	2012-09-07	1427162.26	1	66.74	3.921	138.472936
3282	23	2012-09-14	1279041.64	0	61.37	3.988	138.567300
3283	23	2012-09-21	1338627.55	0	56.80	4.056	138.653400
3284	23	2012-09-28	1319035.06	0	53.71	4.018	138.739500

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
3285	23	2012-10-05	1464616.59	0	56.65	4.027	138.825600
3286	23	2012-10-12	1412925.25	0	48.10	4.029	138.911700
3287	23	2012-10-19	1363155.77	0	47.89	4.000	138.833613
3288	23	2012-10-26	1347454.59	0	50.56	3.917	138.728161
3389	24	2012-01-06	1251581.89	0	32.86	3.585	136.698129
3390	24	2012-01-13	1155594.20	0	36.50	3.666	136.753000
3391	24	2012-01-20	1151993.85	0	25.73	3.705	136.856419
3392	24	2012-01-27	1057290.41	0	31.92	3.737	136.959839
3393	24	2012-02-03	1249696.97	0	38.61	3.796	137.063258
3394	24	2012-02-10	1403460.87	1	33.82	3.826	137.166677
3395	24	2012-02-17	1326370.08	0	33.92	3.874	137.258310
3396	24	2012-02-24	1303233.15	0	37.35	3.917	137.341103
3397	24	2012-03-02	1213994.39	0	35.36	3.983	137.423897
3398	24	2012-03-09	1325835.70	0	41.50	4.021	137.506690
3399	24	2012-03-16	1239299.12	0	48.68	4.021	137.584387
3400	24	2012-03-23	1221723.94	0	59.51	4.054	137.655290
3401	24	2012-03-30	1230106.13	0	47.28	4.098	137.726193
3402	24	2012-04-06	1524734.29	0	45.25	4.143	137.797097
3403	24	2012-04-13	1285783.87	0	48.65	4.187	137.868000
3404	24	2012-04-20	1208654.40	0	61.05	4.170	137.923067
3405	24	2012-04-27	1194334.65	0	49.26	4.163	137.978133
3406	24	2012-05-04	1306551.71	0	52.14	4.124	138.033200
3407	24	2012-05-11	1355391.79	0	58.70	4.055	138.088267
3408	24	2012-05-18	1298809.80	0	63.10	4.029	138.106581
3409	24	2012-05-25	1407897.57	0	65.79	3.979	138.110194
3410	24	2012-06-01	1467722.19	0	71.79	3.915	138.113807
3411	24	2012-06-08	1406313.13	0	59.93	3.871	138.117419
3412	24	2012-06-15	1364445.98	0	68.28	3.786	138.129533
3413	24	2012-06-22	1434709.63	0	72.29	3.722	138.162900
3414	24	2012-06-29	1428869.90	0	70.40	3.667	138.196267
3415	24	2012-07-06	1645097.75	0	77.18	3.646	138.229633
3416	24	2012-07-13	1405475.78	0	75.36	3.689	138.263000
3417	24	2012-07-20	1394299.00	0	76.42	3.732	138.233193
3418	24	2012-07-27	1307339.14	0	73.62	3.820	138.203387
3419	24	2012-08-03	1440374.13	0	73.26	3.819	138.173581
3420	24	2012-08-10	1497054.81	0	75.53	3.863	138.143774
3421	24	2012-08-17	1397970.54	0	72.87	3.963	138.185710
3422	24	2012-08-24	1303726.54	0	68.13	3.997	138.281452

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
3423	24	2012-08-31	1344558.92	0	71.18	4.026	138.377194
3424	24	2012-09-07	1477134.75	1	72.81	4.076	138.472936
3425	24	2012-09-14	1242909.53	0	64.28	4.088	138.567300
3426	24	2012-09-21	1261158.47	0	61.25	4.203	138.653400
3427	24	2012-09-28	1259278.36	0	58.86	4.158	138.739500
3428	24	2012-10-05	1416720.54	0	60.35	4.151	138.825600
3429	24	2012-10-12	1416301.17	0	51.64	4.186	138.911700
3430	24	2012-10-19	1255414.84	0	52.59	4.153	138.833613
3431	24	2012-10-26	1307182.29	0	55.16	4.071	138.728161
3532	25	2012-01-06	636419.12	0	30.23	3.422	212.571112
3533	25	2012-01-13	614764.31	0	34.60	3.513	212.738649
3534	25	2012-01-20	594744.89	0	23.87	3.533	212.833640
3535	25	2012-01-27	589554.29	0	32.24	3.567	212.928631
3536	25	2012-02-03	642776.40	0	34.98	3.617	213.023622
3537	25	2012-02-10	658984.38	1	32.47	3.640	213.118614
3538	25	2012-02-17	654088.02	0	32.23	3.695	213.273211
3539	25	2012-02-24	613501.05	0	35.51	3.739	213.472512
3540	25	2012-03-02	643155.89	0	36.01	3.816	213.671813
3541	25	2012-03-09	643711.53	0	37.44	3.848	213.871114
3542	25	2012-03-16	638204.27	0	50.64	3.862	214.016713
3543	25	2012-03-23	672831.78	0	62.70	3.900	214.090711
3544	25	2012-03-30	684348.92	0	47.92	3.953	214.164708
3545	25	2012-04-06	791356.90	0	44.73	3.996	214.238705
3546	25	2012-04-13	658691.56	0	42.46	4.044	214.312703
3547	25	2012-04-20	661566.48	0	57.10	4.027	214.367504
3548	25	2012-04-27	655157.32	0	44.20	4.004	214.422306
3549	25	2012-05-04	696421.72	0	58.76	3.951	214.477108
3550	25	2012-05-11	739866.16	0	59.21	3.889	214.531910
3551	25	2012-05-18	717207.19	0	58.21	3.848	214.548557
3552	25	2012-05-25	783371.02	0	67.69	3.798	214.549942
3553	25	2012-06-01	694765.95	0	69.54	3.742	214.551328
3554	25	2012-06-08	730254.19	0	58.48	3.689	214.552713
3555	25	2012-06-15	753860.89	0	68.34	3.620	214.565324
3556	25	2012-06-22	721601.90	0	73.52	3.564	214.606000
3557	25	2012-06-29	718890.81	0	69.84	3.506	214.646676
3558	25	2012-07-06	753385.55	0	75.52	3.475	214.687351
3559	25	2012-07-13	714093.95	0	73.87	3.523	214.728027
3560	25	2012-07-20	685676.58	0	74.32	3.567	214.733135

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
3561	25	2012-07-27	659109.53	0	72.98	3.647	214.738243
3562	25	2012-08-03	709724.60	0	72.08	3.654	214.743351
3563	25	2012-08-10	710496.97	0	71.93	3.722	214.748459
3564	25	2012-08-17	728467.72	0	66.99	3.807	214.825578
3565	25	2012-08-24	756527.64	0	64.53	3.834	214.956704
3566	25	2012-08-31	714828.73	0	68.55	3.867	215.087831
3567	25	2012-09-07	671482.90	1	72.79	3.911	215.218957
3568	25	2012-09-14	657241.63	0	60.90	3.948	215.358376
3569	25	2012-09-21	664745.20	0	57.60	4.038	215.547546
3570	25	2012-09-28	683300.84	0	54.52	3.997	215.736716
3571	25	2012-10-05	699536.73	0	57.58	3.985	215.925886
3572	25	2012-10-12	697317.41	0	43.74	4.000	216.115057
3573	25	2012-10-19	685531.85	0	51.93	3.969	216.146470
3574	25	2012-10-26	688940.94	0	56.69	3.882	216.151590
3675	26	2012-01-06	971557.62	0	22.94	3.439	136.698129
3676	26	2012-01-13	836305.65	0	25.55	3.523	136.753000
3677	26	2012-01-20	838751.50	0	15.22	3.542	136.856419
3678	26	2012-01-27	820059.89	0	24.16	3.568	136.959839
3679	26	2012-02-03	939158.25	0	25.24	3.633	137.063258
3680	26	2012-02-10	1081005.64	1	23.89	3.655	137.166677
3681	26	2012-02-17	965788.76	0	23.90	3.703	137.258310
3682	26	2012-02-24	917924.47	0	28.06	3.751	137.341103
3683	26	2012-03-02	955641.74	0	22.49	3.827	137.423897
3684	26	2012-03-09	1028569.01	0	29.03	3.876	137.506690
3685	26	2012-03-16	919503.40	0	35.06	3.867	137.584387
3686	26	2012-03-23	874790.68	0	49.97	3.889	137.655290
3687	26	2012-03-30	922018.43	0	33.33	3.921	137.726193
3688	26	2012-04-06	1116829.23	0	33.35	3.957	137.797097
3689	26	2012-04-13	889670.29	0	36.90	4.025	137.868000
3690	26	2012-04-20	923600.02	0	50.81	4.046	137.923067
3691	26	2012-04-27	911969.00	0	43.60	4.023	137.978133
3692	26	2012-05-04	946573.29	0	40.29	3.991	138.033200
3693	26	2012-05-11	1062548.73	0	47.11	3.947	138.088267
3694	26	2012-05-18	978082.84	0	52.55	3.899	138.106581
3695	26	2012-05-25	1067310.74	0	58.20	3.850	138.110194
3696	26	2012-06-01	1015853.03	0	58.51	3.798	138.113807
3697	26	2012-06-08	1106176.83	0	49.43	3.746	138.117419
3698	26	2012-06-15	1029248.22	0	57.84	3.683	138.129533

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
3699	26	2012-06-22	1056282.91	0	63.04	3.629	138.162900
3700	26	2012-06-29	1051190.44	0	60.71	3.577	138.196267
3701	26	2012-07-06	1180470.80	0	64.94	3.538	138.229633
3702	26	2012-07-13	1063149.78	0	64.47	3.561	138.263000
3703	26	2012-07-20	1049625.90	0	66.75	3.610	138.233193
3704	26	2012-07-27	1031745.14	0	64.12	3.701	138.203387
3705	26	2012-08-03	1090915.09	0	65.60	3.698	138.173581
3706	26	2012-08-10	1121476.51	0	67.01	3.772	138.143774
3707	26	2012-08-17	1068292.56	0	65.54	3.840	138.185710
3708	26	2012-08-24	1022704.20	0	62.08	3.874	138.281452
3709	26	2012-08-31	1053495.51	0	63.69	3.884	138.377194
3710	26	2012-09-07	1081874.03	1	61.58	3.921	138.472936
3711	26	2012-09-14	986131.94	0	57.69	3.988	138.567300
3712	26	2012-09-21	961084.08	0	52.68	4.056	138.653400
3713	26	2012-09-28	964726.37	0	50.66	4.018	138.739500
3714	26	2012-10-05	1095504.26	0	54.07	4.027	138.825600
3715	26	2012-10-12	1044639.69	0	45.19	4.029	138.911700
3716	26	2012-10-19	975578.02	0	43.51	4.000	138.833613
3717	26	2012-10-26	958619.80	0	46.95	3.917	138.728161
3818	27	2012-01-06	1535287.40	0	35.80	3.585	140.646136
3819	27	2012-01-13	1492399.13	0	41.30	3.666	140.704821
3820	27	2012-01-20	1542131.05	0	30.35	3.705	140.808612
3821	27	2012-01-27	1263534.86	0	36.96	3.737	140.912402
3822	27	2012-02-03	1564246.02	0	42.52	3.796	141.016192
3823	27	2012-02-10	1651605.35	1	37.86	3.826	141.119983
3824	27	2012-02-17	1606221.56	0	37.24	3.874	141.214036
3825	27	2012-02-24	1648602.39	0	41.74	3.917	141.300786
3826	27	2012-03-02	1509323.09	0	40.07	3.983	141.387536
3827	27	2012-03-09	1607343.41	0	44.32	4.021	141.474286
3828	27	2012-03-16	1635984.07	0	49.60	4.021	141.554780
3829	27	2012-03-23	1620839.34	0	57.30	4.054	141.626933
3830	27	2012-03-30	1615494.14	0	49.40	4.098	141.699086
3831	27	2012-04-06	1899013.34	0	48.73	4.143	141.771240
3832	27	2012-04-13	1650405.21	0	52.22	4.187	141.843393
3833	27	2012-04-20	1639999.47	0	62.62	4.170	141.901526
3834	27	2012-04-27	1565498.84	0	52.33	4.163	141.959659
3835	27	2012-05-04	1669388.45	0	53.68	4.124	142.017793
3836	27	2012-05-11	1674306.31	0	58.97	4.055	142.075926

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
3837	27	2012-05-18	1707158.82	0	65.15	4.029	142.097012
3838	27	2012-05-25	1818906.73	0	64.77	3.979	142.103278
3839	27	2012-06-01	1900638.60	0	73.40	3.915	142.109544
3840	27	2012-06-08	1764756.31	0	64.05	3.871	142.115810
3841	27	2012-06-15	1773500.56	0	69.52	3.786	142.129255
3842	27	2012-06-22	1837884.79	0	73.23	3.722	142.160646
3843	27	2012-06-29	1842555.32	0	73.94	3.667	142.192038
3844	27	2012-07-06	2062224.92	0	82.08	3.646	142.223430
3845	27	2012-07-13	1755889.53	0	78.95	3.689	142.254821
3846	27	2012-07-20	1730913.66	0	78.64	3.732	142.233757
3847	27	2012-07-27	1625883.71	0	76.01	3.820	142.212692
3848	27	2012-08-03	1705810.84	0	75.22	3.819	142.191628
3849	27	2012-08-10	1720537.26	0	78.44	3.863	142.170563
3850	27	2012-08-17	1735339.59	0	76.51	3.963	142.215738
3851	27	2012-08-24	1780443.36	0	72.93	3.997	142.310593
3852	27	2012-08-31	1731935.43	0	75.00	4.026	142.405448
3853	27	2012-09-07	1840955.23	1	76.00	4.076	142.500303
3854	27	2012-09-14	1519604.50	0	68.72	4.088	142.593883
3855	27	2012-09-21	1557485.75	0	66.10	4.203	142.679817
3856	27	2012-09-28	1540687.63	0	64.92	4.158	142.765750
3857	27	2012-10-05	1591816.88	0	64.50	4.151	142.851683
3858	27	2012-10-12	1660081.29	0	55.40	4.186	142.937617
3859	27	2012-10-19	1620374.24	0	56.53	4.153	142.863363
3860	27	2012-10-26	1703047.74	0	58.99	4.071	142.762411
3961	28	2012-01-06	1466046.07	0	50.43	3.599	130.157516
3962	28	2012-01-13	1161190.29	0	48.07	3.657	130.244000
3963	28	2012-01-20	1129540.48	0	46.20	3.660	130.279226
3964	28	2012-01-27	1132948.48	0	50.43	3.675	130.314452
3965	28	2012-02-03	1531599.44	0	50.58	3.702	130.349677
3966	28	2012-02-10	1572966.15	1	52.27	3.722	130.384903
3967	28	2012-02-17	1501503.68	0	51.80	3.781	130.454621
3968	28	2012-02-24	1323487.91	0	53.13	3.950	130.550207
3969	28	2012-03-02	1451740.57	0	52.27	4.178	130.645793
3970	28	2012-03-09	1680764.06	0	54.54	4.250	130.741379
3971	28	2012-03-16	1337875.49	0	64.44	4.273	130.826193
3972	28	2012-03-23	1216059.41	0	56.26	4.038	130.896645
3973	28	2012-03-30	1209524.11	0	64.36	4.294	130.967097
3974	28	2012-04-06	1559592.79	0	64.05	4.121	131.037548

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
3975	28	2012-04-13	1290684.95	0	64.28	4.254	131.108000
3976	28	2012-04-20	1180797.20	0	66.73	4.222	131.117333
3977	28	2012-04-27	1170456.16	0	77.99	4.193	131.126667
3978	28	2012-05-04	1450628.85	0	76.03	4.171	131.136000
3979	28	2012-05-11	1264575.18	0	77.27	4.186	131.145333
3980	28	2012-05-18	1213310.45	0	84.51	4.110	131.098323
3981	28	2012-05-25	1151214.41	0	83.84	4.293	131.028774
3982	28	2012-06-01	1245480.95	0	78.11	4.277	130.959226
3983	28	2012-06-08	1440687.69	0	84.83	4.103	130.889677
3984	28	2012-06-15	1229760.97	0	85.94	4.144	130.829533
3985	28	2012-06-22	1180671.55	0	91.61	4.014	130.792900
3986	28	2012-06-29	1129031.98	0	90.47	3.875	130.756267
3987	28	2012-07-06	1500863.54	0	89.13	3.765	130.719633
3988	28	2012-07-13	1179915.04	0	95.61	3.723	130.683000
3989	28	2012-07-20	1149427.48	0	85.53	3.726	130.701290
3990	28	2012-07-27	1135035.09	0	93.47	3.769	130.719581
3991	28	2012-08-03	1376520.10	0	88.16	3.760	130.737871
3992	28	2012-08-10	1269113.41	0	95.91	3.811	130.756161
3993	28	2012-08-17	1184198.41	0	94.87	4.002	130.790968
3994	28	2012-08-24	1199309.59	0	85.32	4.055	130.838161
3995	28	2012-08-31	1227118.75	0	89.78	4.093	130.885355
3996	28	2012-09-07	1469693.99	1	88.52	4.124	130.932548
3997	28	2012-09-14	1124660.77	0	83.64	4.133	130.977667
3998	28	2012-09-21	1135340.19	0	82.97	4.125	131.010333
3999	28	2012-09-28	1129508.61	0	81.22	3.966	131.043000
4000	28	2012-10-05	1462941.03	0	81.61	3.966	131.075667
4001	28	2012-10-12	1205536.71	0	71.74	4.468	131.108333
4002	28	2012-10-19	1143724.48	0	68.66	4.449	131.149968
4003	28	2012-10-26	1213860.61	0	65.95	4.301	131.193097
4104	29	2012-01-06	469773.85	0	34.61	3.439	136.698129
4105	29	2012-01-13	444756.37	0	39.00	3.523	136.753000
4106	29	2012-01-20	446863.31	0	29.16	3.542	136.856419
4107	29	2012-01-27	395987.24	0	35.68	3.568	136.959839
4108	29	2012-02-03	493159.35	0	40.58	3.633	137.063258
4109	29	2012-02-10	545840.05	1	35.68	3.655	137.166677
4110	29	2012-02-17	559606.91	0	36.25	3.703	137.258310
4111	29	2012-02-24	488782.63	0	39.00	3.751	137.341103
4112	29	2012-03-02	500801.72	0	37.47	3.827	137.423897

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
4113	29	2012-03-09	504750.35	0	41.72	3.876	137.506690
4114	29	2012-03-16	489293.72	0	46.06	3.867	137.584387
4115	29	2012-03-23	517408.48	0	54.68	3.889	137.655290
4116	29	2012-03-30	504566.28	0	46.40	3.921	137.726193
4117	29	2012-04-06	633826.55	0	46.38	3.957	137.797097
4118	29	2012-04-13	520493.83	0	49.89	4.025	137.868000
4119	29	2012-04-20	525200.59	0	58.81	4.046	137.923067
4120	29	2012-04-27	497250.22	0	51.42	4.023	137.978133
4121	29	2012-05-04	504963.84	0	50.75	3.991	138.033200
4122	29	2012-05-11	529707.87	0	56.72	3.947	138.088267
4123	29	2012-05-18	543706.04	0	61.90	3.899	138.106581
4124	29	2012-05-25	549665.67	0	62.39	3.850	138.110194
4125	29	2012-06-01	576252.35	0	70.01	3.798	138.113807
4126	29	2012-06-08	554093.15	0	61.71	3.746	138.117419
4127	29	2012-06-15	552338.76	0	66.56	3.683	138.129533
4128	29	2012-06-22	581854.50	0	70.61	3.629	138.162900
4129	29	2012-06-29	555954.13	0	70.99	3.577	138.196267
4130	29	2012-07-06	578832.41	0	77.41	3.538	138.229633
4131	29	2012-07-13	514709.76	0	75.81	3.561	138.263000
4132	29	2012-07-20	506705.36	0	76.57	3.610	138.233193
4133	29	2012-07-27	475158.24	0	73.52	3.701	138.203387
4134	29	2012-08-03	504754.74	0	72.99	3.698	138.173581
4135	29	2012-08-10	518628.42	0	76.74	3.772	138.143774
4136	29	2012-08-17	416881.66	0	74.92	3.840	138.185710
4137	29	2012-08-24	615026.15	0	70.42	3.874	138.281452
4138	29	2012-08-31	545844.91	0	71.93	3.884	138.377194
4139	29	2012-09-07	540811.85	1	73.30	3.921	138.472936
4140	29	2012-09-14	475127.18	0	66.42	3.988	138.567300
4141	29	2012-09-21	489079.23	0	63.38	4.056	138.653400
4142	29	2012-09-28	489674.23	0	62.17	4.018	138.739500
4143	29	2012-10-05	520632.80	0	62.09	4.027	138.825600
4144	29	2012-10-12	513737.00	0	54.18	4.029	138.911700
4145	29	2012-10-19	516909.24	0	55.28	4.000	138.833613
4146	29	2012-10-26	534970.68	0	57.58	3.917	138.728161
4247	30	2012-01-06	457030.86	0	48.10	3.157	219.355063
4248	30	2012-01-13	447023.91	0	45.00	3.261	219.532820
4249	30	2012-01-20	438760.62	0	52.21	3.268	219.625842
4250	30	2012-01-27	433037.66	0	50.79	3.290	219.718864

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
4251	30	2012-02-03	434080.74	0	55.83	3.360	219.811885
4252	30	2012-02-10	451365.99	1	46.52	3.409	219.904907
4253	30	2012-02-17	435109.11	0	45.03	3.510	220.065199
4254	30	2012-02-24	425215.71	0	54.81	3.555	220.275944
4255	30	2012-03-02	438640.61	0	59.30	3.630	220.486689
4256	30	2012-03-09	446617.89	0	57.16	3.669	220.697433
4257	30	2012-03-16	413617.45	0	63.39	3.734	220.849847
4258	30	2012-03-23	430222.97	0	62.96	3.787	220.924486
4259	30	2012-03-30	449603.91	0	67.87	3.845	220.999125
4260	30	2012-04-06	461511.92	0	69.02	3.891	221.073764
4261	30	2012-04-13	428784.70	0	69.03	3.891	221.148403
4262	30	2012-04-20	462909.41	0	66.97	3.877	221.202107
4263	30	2012-04-27	433744.83	0	69.21	3.814	221.255812
4264	30	2012-05-04	454477.54	0	77.53	3.749	221.309517
4265	30	2012-05-11	436070.45	0	74.14	3.688	221.363221
4266	30	2012-05-18	460945.14	0	72.42	3.630	221.380331
4267	30	2012-05-25	449355.91	0	79.49	3.561	221.382803
4268	30	2012-06-01	427021.18	0	79.24	3.501	221.385275
4269	30	2012-06-08	437222.94	0	79.47	3.452	221.387747
4270	30	2012-06-15	438523.24	0	81.51	3.393	221.400990
4271	30	2012-06-22	428554.63	0	81.78	3.346	221.441162
4272	30	2012-06-29	423192.40	0	88.05	3.286	221.481334
4273	30	2012-07-06	440553.42	0	85.26	3.227	221.521506
4274	30	2012-07-13	417640.34	0	82.51	3.256	221.561678
4275	30	2012-07-20	427491.04	0	84.25	3.311	221.570112
4276	30	2012-07-27	424581.17	0	88.09	3.407	221.578546
4277	30	2012-08-03	425136.55	0	91.57	3.417	221.586980
4278	30	2012-08-10	430878.28	0	89.57	3.494	221.595414
4279	30	2012-08-17	423351.15	0	85.55	3.571	221.675146
4280	30	2012-08-24	425296.65	0	77.72	3.620	221.808352
4281	30	2012-08-31	439132.50	0	83.58	3.638	221.941558
4282	30	2012-09-07	433565.77	1	88.40	3.730	222.074763
4283	30	2012-09-14	437773.31	0	76.10	3.717	222.217440
4284	30	2012-09-21	443891.64	0	71.54	3.721	222.416936
4285	30	2012-09-28	425410.04	0	80.38	3.666	222.616433
4286	30	2012-10-05	446751.45	0	70.28	3.617	222.815930
4287	30	2012-10-12	434593.26	0	61.53	3.601	223.015426
4288	30	2012-10-19	437537.29	0	68.52	3.594	223.059808

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
4289	30	2012-10-26	439424.50	0	70.50	3.506	223.078337
4390	31	2012-01-06	1401232.52	0	48.10	3.157	219.355063
4391	31	2012-01-13	1377485.12	0	45.00	3.261	219.532820
4392	31	2012-01-20	1372504.90	0	52.21	3.268	219.625842
4393	31	2012-01-27	1259941.48	0	50.79	3.290	219.718864
4394	31	2012-02-03	1391479.91	0	55.83	3.360	219.811885
4395	31	2012-02-10	1527688.58	1	46.52	3.409	219.904907
4396	31	2012-02-17	1570813.52	0	45.03	3.510	220.065199
4397	31	2012-02-24	1392543.37	0	54.81	3.555	220.275944
4398	31	2012-03-02	1427881.22	0	59.30	3.630	220.486689
4399	31	2012-03-09	1439034.86	0	57.16	3.669	220.697433
4400	31	2012-03-16	1481728.13	0	63.39	3.734	220.849847
4401	31	2012-03-23	1365824.97	0	62.96	3.787	220.924486
4402	31	2012-03-30	1318854.22	0	67.87	3.845	220.999125
4403	31	2012-04-06	1496169.81	0	69.02	3.891	221.073764
4404	31	2012-04-13	1407842.91	0	69.03	3.891	221.148403
4405	31	2012-04-20	1407036.59	0	66.97	3.877	221.202107
4406	31	2012-04-27	1311352.25	0	69.21	3.814	221.255812
4407	31	2012-05-04	1391257.28	0	77.53	3.749	221.309517
4408	31	2012-05-11	1392938.06	0	74.14	3.688	221.363221
4409	31	2012-05-18	1441473.82	0	72.42	3.630	221.380331
4410	31	2012-05-25	1397094.26	0	79.49	3.561	221.382803
4411	31	2012-06-01	1404516.29	0	79.24	3.501	221.385275
4412	31	2012-06-08	1443285.79	0	79.47	3.452	221.387747
4413	31	2012-06-15	1431003.43	0	81.51	3.393	221.400990
4414	31	2012-06-22	1394065.76	0	81.78	3.346	221.441162
4415	31	2012-06-29	1349202.25	0	88.05	3.286	221.481334
4416	31	2012-07-06	1458059.42	0	85.26	3.227	221.521506
4417	31	2012-07-13	1374301.34	0	82.51	3.256	221.561678
4418	31	2012-07-20	1392395.20	0	84.25	3.311	221.570112
4419	31	2012-07-27	1303732.36	0	88.09	3.407	221.578546
4420	31	2012-08-03	1390174.63	0	91.57	3.417	221.586980
4421	31	2012-08-10	1386472.59	0	89.57	3.494	221.595414
4422	31	2012-08-17	1410181.70	0	85.55	3.571	221.675146
4423	31	2012-08-24	1379783.21	0	77.72	3.620	221.808352
4424	31	2012-08-31	1373651.49	0	83.58	3.638	221.941558
4425	31	2012-09-07	1358111.62	1	88.40	3.730	222.074763
4426	31	2012-09-14	1327705.44	0	76.10	3.717	222.217440

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
4427	31	2012-09-21	1373064.87	0	71.54	3.721	222.416936
4428	31	2012-09-28	1279080.58	0	80.38	3.666	222.616433
4429	31	2012-10-05	1363365.05	0	70.28	3.617	222.815930
4430	31	2012-10-12	1401113.42	0	61.53	3.601	223.015426
4431	31	2012-10-19	1378730.45	0	68.52	3.594	223.059808
4432	31	2012-10-26	1340232.55	0	70.50	3.506	223.078337
4533	32	2012-01-06	1099937.25	0	36.75	3.095	196.545831
4534	32	2012-01-13	1071598.36	0	28.99	3.077	196.733052
4535	32	2012-01-20	1080012.04	0	36.86	3.055	196.779665
4536	32	2012-01-27	1051864.60	0	36.67	3.038	196.826279
4537	32	2012-02-03	1156826.31	0	35.89	3.031	196.872892
4538	32	2012-02-10	1129422.86	1	23.34	3.103	196.919506
4539	32	2012-02-17	1243812.59	0	24.26	3.113	196.943271
4540	32	2012-02-24	1091822.72	0	33.41	3.129	196.949901
4541	32	2012-03-02	1153332.89	0	33.40	3.191	196.956530
4542	32	2012-03-09	1124537.97	0	39.90	3.286	196.963160
4543	32	2012-03-16	1138101.18	0	51.51	3.486	197.045721
4544	32	2012-03-23	1146632.46	0	47.64	3.664	197.229523
4545	32	2012-03-30	1108686.87	0	56.09	3.750	197.413326
4546	32	2012-04-06	1270577.01	0	51.49	3.854	197.597128
4547	32	2012-04-13	1171834.47	0	52.10	3.901	197.780931
4548	32	2012-04-20	1121405.91	0	49.15	3.936	197.722738
4549	32	2012-04-27	1126962.44	0	61.76	3.927	197.664546
4550	32	2012-05-04	1187384.53	0	58.29	3.903	197.606353
4551	32	2012-05-11	1187051.07	0	55.40	3.870	197.548161
4552	32	2012-05-18	1177539.71	0	57.46	3.837	197.555314
4553	32	2012-05-25	1232784.22	0	59.74	3.804	197.588605
4554	32	2012-06-01	1157557.79	0	62.84	3.764	197.621895
4555	32	2012-06-08	1246322.44	0	71.14	3.741	197.655186
4556	32	2012-06-15	1234759.54	0	70.91	3.723	197.692292
4557	32	2012-06-22	1196880.11	0	74.85	3.735	197.738934
4558	32	2012-06-29	1178211.81	0	81.95	3.693	197.785577
4559	32	2012-07-06	1214183.97	0	78.68	3.646	197.832220
4560	32	2012-07-13	1141184.66	0	71.57	3.613	197.878862
4561	32	2012-07-20	1167829.33	0	77.76	3.585	197.929038
4562	32	2012-07-27	1144901.52	0	77.56	3.570	197.979214
4563	32	2012-08-03	1183571.35	0	75.09	3.528	198.029389
4564	32	2012-08-10	1227469.20	0	75.93	3.509	198.079565

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
4565	32	2012-08-17	1261306.37	0	70.75	3.545	198.100106
4566	32	2012-08-24	1272809.11	0	70.12	3.558	198.098420
4567	32	2012-08-31	1183979.27	0	76.12	3.556	198.096734
4568	32	2012-09-07	1126685.95	1	72.56	3.596	198.095048
4569	32	2012-09-14	1156377.47	0	64.05	3.659	198.126718
4570	32	2012-09-21	1159119.60	0	63.49	3.765	198.358523
4571	32	2012-09-28	1157111.15	0	60.62	3.789	198.590328
4572	32	2012-10-05	1202775.24	0	55.34	3.779	198.822132
4573	32	2012-10-12	1176681.31	0	43.49	3.760	199.053937
4574	32	2012-10-19	1199292.06	0	53.57	3.750	199.148196
4575	32	2012-10-26	1219979.29	0	47.22	3.686	199.219532
4676	33	2012-01-06	267058.08	0	60.92	3.443	130.157516
4677	33	2012-01-13	279447.22	0	54.61	3.477	130.244000
4678	33	2012-01-20	244899.20	0	55.99	3.660	130.279226
4679	33	2012-01-27	236920.49	0	56.33	3.675	130.314452
4680	33	2012-02-03	256091.32	0	59.53	3.543	130.349677
4681	33	2012-02-10	282552.58	1	59.94	3.722	130.384903
4682	33	2012-02-17	266300.98	0	57.80	3.781	130.454621
4683	33	2012-02-24	242526.70	0	59.41	3.950	130.550207
4684	33	2012-03-02	248051.53	0	60.91	3.882	130.645793
4685	33	2012-03-09	287346.29	0	62.20	3.963	130.741379
4686	33	2012-03-16	278067.73	0	65.99	4.273	130.826193
4687	33	2012-03-23	246970.97	0	60.82	4.288	130.896645
4688	33	2012-03-30	251327.67	0	71.34	4.294	130.967097
4689	33	2012-04-06	275911.97	0	70.75	4.282	131.037548
4690	33	2012-04-13	312698.67	0	73.17	4.254	131.108000
4691	33	2012-04-20	261837.20	0	72.94	4.111	131.117333
4692	33	2012-04-27	249798.75	0	83.07	4.088	131.126667
4693	33	2012-05-04	270497.51	0	82.43	4.058	131.136000
4694	33	2012-05-11	295841.84	0	81.02	4.186	131.145333
4695	33	2012-05-18	276899.95	0	89.81	4.308	131.098323
4696	33	2012-05-25	261851.74	0	88.89	4.127	131.028774
4697	33	2012-06-01	261131.09	0	83.57	4.277	130.959226
4698	33	2012-06-08	286082.76	0	90.94	4.103	130.889677
4699	33	2012-06-15	290444.31	0	92.44	4.144	130.829533
4700	33	2012-06-22	261666.29	0	95.75	4.014	130.792900
4701	33	2012-06-29	244338.31	0	98.15	3.875	130.756267
4702	33	2012-07-06	273690.37	0	93.21	3.666	130.719633

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
4703	33	2012-07-13	287033.64	0	97.60	3.723	130.683000
4704	33	2012-07-20	253205.89	0	91.49	3.589	130.701290
4705	33	2012-07-27	249134.32	0	93.95	3.769	130.719581
4706	33	2012-08-03	258533.12	0	92.13	3.595	130.737871
4707	33	2012-08-10	297753.49	0	100.07	3.811	130.756161
4708	33	2012-08-17	270097.76	0	96.79	4.002	130.790968
4709	33	2012-08-24	247672.56	0	89.62	4.055	130.838161
4710	33	2012-08-31	237129.81	0	94.55	3.886	130.885355
4711	33	2012-09-07	286428.78	1	92.02	4.124	130.932548
4712	33	2012-09-14	277417.53	0	83.40	3.966	130.977667
4713	33	2012-09-21	252709.58	0	86.53	4.125	131.010333
4714	33	2012-09-28	242813.51	0	86.42	3.966	131.043000
4715	33	2012-10-05	265444.90	0	85.18	4.132	131.075667
4716	33	2012-10-12	291781.15	0	79.64	4.468	131.108333
4717	33	2012-10-19	254412.34	0	75.55	4.449	131.149968
4718	33	2012-10-26	253731.13	0	73.70	4.301	131.193097
4819	34	2012-01-06	953844.85	0	36.39	3.158	130.157516
4820	34	2012-01-13	913755.12	0	33.99	3.263	130.244000
4821	34	2012-01-20	910899.05	0	39.28	3.273	130.279226
4822	34	2012-01-27	872450.37	0	39.81	3.290	130.314452
4823	34	2012-02-03	939367.14	0	38.64	3.354	130.349677
4824	34	2012-02-10	1047658.09	1	36.70	3.411	130.384903
4825	34	2012-02-17	1123446.51	0	37.25	3.493	130.454621
4826	34	2012-02-24	950154.24	0	39.89	3.541	130.550207
4827	34	2012-03-02	990263.70	0	42.74	3.619	130.645793
4828	34	2012-03-09	976393.43	0	42.70	3.667	130.741379
4829	34	2012-03-16	999298.43	0	48.09	3.707	130.826193
4830	34	2012-03-23	945143.33	0	47.93	3.759	130.896645
4831	34	2012-03-30	938861.77	0	59.29	3.820	130.967097
4832	34	2012-04-06	1091020.37	0	54.42	3.864	131.037548
4833	34	2012-04-13	987353.65	0	59.12	3.881	131.108000
4834	34	2012-04-20	977628.78	0	55.34	3.864	131.117333
4835	34	2012-04-27	940299.87	0	66.49	3.810	131.126667
4836	34	2012-05-04	991104.40	0	65.04	3.747	131.136000
4837	34	2012-05-11	949625.52	0	61.92	3.685	131.145333
4838	34	2012-05-18	998672.85	0	64.97	3.620	131.098323
4839	34	2012-05-25	1015737.61	0	72.42	3.551	131.028774
4840	34	2012-06-01	977062.44	0	70.41	3.483	130.959226

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
4841	34	2012-06-08	999511.29	0	75.35	3.433	130.889677
4842	34	2012-06-15	982345.51	0	76.48	3.372	130.829533
4843	34	2012-06-22	1000285.10	0	78.85	3.329	130.792900
4844	34	2012-06-29	942970.63	0	81.91	3.257	130.756267
4845	34	2012-07-06	1007867.68	0	77.95	3.187	130.719633
4846	34	2012-07-13	954677.75	0	74.02	3.224	130.683000
4847	34	2012-07-20	950929.59	0	77.70	3.263	130.701290
4848	34	2012-07-27	917883.79	0	77.30	3.356	130.719581
4849	34	2012-08-03	973250.41	0	78.93	3.374	130.737871
4850	34	2012-08-10	1004523.59	0	78.26	3.476	130.756161
4851	34	2012-08-17	1013820.86	0	77.78	3.552	130.790968
4852	34	2012-08-24	926250.21	0	72.44	3.610	130.838161
4853	34	2012-08-31	933487.71	0	75.89	3.646	130.885355
4854	34	2012-09-07	976415.56	1	78.26	3.709	130.932548
4855	34	2012-09-14	955211.70	0	64.28	3.706	130.977667
4856	34	2012-09-21	943047.78	0	66.08	3.721	131.010333
4857	34	2012-09-28	928629.31	0	67.06	3.666	131.043000
4858	34	2012-10-05	968896.68	0	65.41	3.620	131.075667
4859	34	2012-10-12	948613.39	0	59.94	3.603	131.108333
4860	34	2012-10-19	963516.28	0	58.47	3.610	131.149968
4861	34	2012-10-26	956987.81	0	57.95	3.514	131.193097
4962	35	2012-01-06	671708.09	0	35.80	3.422	140.646136
4963	35	2012-01-13	625135.11	0	41.30	3.513	140.704821
4964	35	2012-01-20	669850.04	0	30.35	3.533	140.808612
4965	35	2012-01-27	588722.99	0	36.96	3.567	140.912402
4966	35	2012-02-03	746901.03	0	42.52	3.617	141.016192
4967	35	2012-02-10	849779.14	1	37.86	3.640	141.119983
4968	35	2012-02-17	824568.39	0	37.24	3.695	141.214036
4969	35	2012-02-24	805028.74	0	41.74	3.739	141.300786
4970	35	2012-03-02	766571.10	0	40.07	3.816	141.387536
4971	35	2012-03-09	796351.35	0	44.32	3.848	141.474286
4972	35	2012-03-16	793045.82	0	49.60	3.862	141.554780
4973	35	2012-03-23	760671.10	0	57.30	3.900	141.626933
4974	35	2012-03-30	744525.69	0	49.40	3.953	141.699086
4975	35	2012-04-06	860293.46	0	48.73	3.996	141.771240
4976	35	2012-04-13	788633.42	0	52.22	4.044	141.843393
4977	35	2012-04-20	794660.24	0	62.62	4.027	141.901526
4978	35	2012-04-27	721212.45	0	52.33	4.004	141.959659

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
4979	35	2012-05-04	772036.60	0	53.68	3.951	142.017793
4980	35	2012-05-11	802383.63	0	58.97	3.889	142.075926
4981	35	2012-05-18	819196.68	0	65.15	3.848	142.097012
4982	35	2012-05-25	822167.17	0	64.77	3.798	142.103278
4983	35	2012-06-01	932195.52	0	73.40	3.742	142.109544
4984	35	2012-06-08	873415.01	0	64.05	3.689	142.115810
4985	35	2012-06-15	848289.41	0	69.52	3.620	142.129255
4986	35	2012-06-22	911696.00	0	73.23	3.564	142.160646
4987	35	2012-06-29	892133.41	0	73.94	3.506	142.192038
4988	35	2012-07-06	985479.64	0	82.08	3.475	142.223430
4989	35	2012-07-13	825763.48	0	78.95	3.523	142.254821
4990	35	2012-07-20	841224.74	0	78.64	3.567	142.233757
4991	35	2012-07-27	808030.15	0	76.01	3.647	142.212692
4992	35	2012-08-03	866216.36	0	75.22	3.654	142.191628
4993	35	2012-08-10	888368.80	0	78.44	3.722	142.170563
4994	35	2012-08-17	887979.47	0	76.51	3.807	142.215738
4995	35	2012-08-24	895274.72	0	72.93	3.834	142.310593
4996	35	2012-08-31	931278.97	0	75.00	3.867	142.405448
4997	35	2012-09-07	984833.35	1	76.00	3.911	142.500303
4998	35	2012-09-14	821568.64	0	68.72	3.948	142.593883
4999	35	2012-09-21	772302.94	0	66.10	4.038	142.679817
5000	35	2012-09-28	814099.86	0	64.92	3.997	142.765750
5001	35	2012-10-05	866064.40	0	64.50	3.985	142.851683
5002	35	2012-10-12	873643.14	0	55.40	4.000	142.937617
5003	35	2012-10-19	829284.67	0	56.53	3.969	142.863363
5004	35	2012-10-26	865137.60	0	58.99	3.882	142.762411
5105	36	2012-01-06	329467.82	0	57.18	3.129	218.406288
5106	36	2012-01-13	325976.34	0	56.28	3.254	218.582339
5107	36	2012-01-20	330927.21	0	58.90	3.275	218.675529
5108	36	2012-01-27	301444.94	0	62.73	3.313	218.768720
5109	36	2012-02-03	310982.87	0	61.33	3.421	218.861910
5110	36	2012-02-10	335741.90	1	54.49	3.462	218.955100
5111	36	2012-02-17	326316.73	0	54.38	3.503	219.114830
5112	36	2012-02-24	313270.45	0	62.21	3.550	219.324464
5113	36	2012-03-02	315396.72	0	64.54	3.619	219.534098
5114	36	2012-03-09	318674.93	0	63.19	3.647	219.743731
5115	36	2012-03-16	335345.82	0	67.48	3.779	219.895634
5116	36	2012-03-23	317872.51	0	69.18	3.845	219.970560

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
5117	36	2012-03-30	304144.90	0	70.48	3.891	220.045486
5118	36	2012-04-06	331026.11	0	73.95	3.934	220.120412
5119	36	2012-04-13	339407.94	0	72.54	3.919	220.195339
5120	36	2012-04-20	323915.32	0	70.87	3.918	220.248394
5121	36	2012-04-27	308389.82	0	70.06	3.888	220.301448
5122	36	2012-05-04	312467.52	0	77.17	3.835	220.354503
5123	36	2012-05-11	330518.34	0	76.55	3.764	220.407558
5124	36	2012-05-18	324801.13	0	73.70	3.713	220.425215
5125	36	2012-05-25	306098.17	0	78.94	3.636	220.428712
5126	36	2012-06-01	306005.53	0	80.74	3.567	220.432210
5127	36	2012-06-08	338273.38	0	81.50	3.513	220.435707
5128	36	2012-06-15	333146.88	0	82.15	3.407	220.449415
5129	36	2012-06-22	306411.01	0	80.40	3.358	220.488647
5130	36	2012-06-29	291530.43	0	86.68	3.273	220.527880
5131	36	2012-07-06	306578.89	0	81.52	3.232	220.567112
5132	36	2012-07-13	298337.41	0	78.15	3.245	220.606344
5133	36	2012-07-20	303289.55	0	81.76	3.301	220.614875
5134	36	2012-07-27	279643.43	0	84.00	3.392	220.623405
5135	36	2012-08-03	304989.97	0	85.56	3.404	220.631936
5136	36	2012-08-10	298947.51	0	84.41	3.490	220.640466
5137	36	2012-08-17	314607.22	0	85.89	3.571	220.719961
5138	36	2012-08-24	282545.55	0	81.26	3.574	220.852679
5139	36	2012-08-31	282647.48	0	84.79	3.608	220.985396
5140	36	2012-09-07	293728.57	1	84.19	3.697	221.118114
5141	36	2012-09-14	301893.63	0	78.16	3.692	221.260121
5142	36	2012-09-21	293804.45	0	75.98	3.709	221.457860
5143	36	2012-09-28	270677.98	0	79.49	3.660	221.655600
5144	36	2012-10-05	277137.86	0	73.57	3.611	221.853340
5145	36	2012-10-12	300236.85	0	71.28	3.576	222.051079
5146	36	2012-10-19	287360.05	0	74.06	3.570	222.095172
5147	36	2012-10-26	272489.41	0	74.39	3.494	222.113657
5248	37	2012-01-06	558343.57	0	57.18	3.157	218.406288
5249	37	2012-01-13	546221.40	0	56.28	3.261	218.582339
5250	37	2012-01-20	543894.07	0	58.90	3.268	218.675529
5251	37	2012-01-27	514116.58	0	62.73	3.290	218.768720
5252	37	2012-02-03	555424.24	0	61.33	3.360	218.861910
5253	37	2012-02-10	527041.46	1	54.49	3.409	218.955100
5254	37	2012-02-17	541071.29	0	54.38	3.510	219.114830

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
5255	37	2012-02-24	518696.89	0	62.21	3.555	219.324464
5256	37	2012-03-02	525559.17	0	64.54	3.630	219.534098
5257	37	2012-03-09	535937.25	0	63.19	3.669	219.743731
5258	37	2012-03-16	484588.34	0	67.48	3.734	219.895634
5259	37	2012-03-23	520887.23	0	69.18	3.787	219.970560
5260	37	2012-03-30	533734.94	0	70.48	3.845	220.045486
5261	37	2012-04-06	564848.78	0	73.95	3.891	220.120412
5262	37	2012-04-13	506973.17	0	72.54	3.891	220.195339
5263	37	2012-04-20	523483.19	0	70.87	3.877	220.248394
5264	37	2012-04-27	528807.45	0	70.06	3.814	220.301448
5265	37	2012-05-04	535311.64	0	77.17	3.749	220.354503
5266	37	2012-05-11	527983.04	0	76.55	3.688	220.407558
5267	37	2012-05-18	534847.96	0	73.70	3.630	220.425215
5268	37	2012-05-25	540625.79	0	78.94	3.561	220.428712
5269	37	2012-06-01	531811.85	0	80.74	3.501	220.432210
5270	37	2012-06-08	528940.78	0	81.50	3.452	220.435707
5271	37	2012-06-15	508573.16	0	82.15	3.393	220.449415
5272	37	2012-06-22	484032.75	0	80.40	3.346	220.488647
5273	37	2012-06-29	508309.81	0	86.68	3.286	220.527880
5274	37	2012-07-06	519498.32	0	81.52	3.227	220.567112
5275	37	2012-07-13	506005.47	0	78.15	3.256	220.606344
5276	37	2012-07-20	503744.56	0	81.76	3.311	220.614875
5277	37	2012-07-27	514489.17	0	84.00	3.407	220.623405
5278	37	2012-08-03	521959.28	0	85.56	3.417	220.631936
5279	37	2012-08-10	500964.59	0	84.41	3.494	220.640466
5280	37	2012-08-17	509633.71	0	85.89	3.571	220.719961
5281	37	2012-08-24	522665.04	0	81.26	3.620	220.852679
5282	37	2012-08-31	538344.10	0	84.79	3.638	220.985396
5283	37	2012-09-07	526838.14	1	84.19	3.730	221.118114
5284	37	2012-09-14	514651.74	0	78.16	3.717	221.260121
5285	37	2012-09-21	521320.98	0	75.98	3.721	221.457860
5286	37	2012-09-28	527953.14	0	79.49	3.666	221.655600
5287	37	2012-10-05	546122.37	0	73.57	3.617	221.853340
5288	37	2012-10-12	521810.75	0	71.28	3.601	222.051079
5289	37	2012-10-19	551969.10	0	74.06	3.594	222.095172
5290	37	2012-10-26	534738.43	0	74.39	3.506	222.113657
5391	38	2012-01-06	478483.20	0	50.43	3.599	130.157516
5392	38	2012-01-13	423260.82	0	48.07	3.657	130.244000

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
5393	38	2012-01-20	405215.91	0	46.20	3.660	130.279226
5394	38	2012-01-27	412882.31	0	50.43	3.675	130.314452
5395	38	2012-02-03	457711.68	0	50.58	3.702	130.349677
5396	38	2012-02-10	469787.38	1	52.27	3.722	130.384903
5397	38	2012-02-17	415513.97	0	51.80	3.781	130.454621
5398	38	2012-02-24	409411.61	0	53.13	3.950	130.550207
5399	38	2012-03-02	471115.38	0	52.27	4.178	130.645793
5400	38	2012-03-09	452792.53	0	54.54	4.250	130.741379
5401	38	2012-03-16	428465.11	0	64.44	4.273	130.826193
5402	38	2012-03-23	412456.48	0	56.26	4.038	130.896645
5403	38	2012-03-30	408679.36	0	64.36	4.294	130.967097
5404	38	2012-04-06	499267.66	0	64.05	4.121	131.037548
5405	38	2012-04-13	435790.74	0	64.28	4.254	131.108000
5406	38	2012-04-20	401615.80	0	66.73	4.222	131.117333
5407	38	2012-04-27	419964.77	0	77.99	4.193	131.126667
5408	38	2012-05-04	491755.69	0	76.03	4.171	131.136000
5409	38	2012-05-11	429914.60	0	77.27	4.186	131.145333
5410	38	2012-05-18	412314.71	0	84.51	4.110	131.098323
5411	38	2012-05-25	422810.12	0	83.84	4.293	131.028774
5412	38	2012-06-01	435579.70	0	78.11	4.277	130.959226
5413	38	2012-06-08	448110.25	0	84.83	4.103	130.889677
5414	38	2012-06-15	430222.07	0	85.94	4.144	130.829533
5415	38	2012-06-22	405938.35	0	91.61	4.014	130.792900
5416	38	2012-06-29	404634.36	0	90.47	3.875	130.756267
5417	38	2012-07-06	471086.22	0	89.13	3.765	130.719633
5418	38	2012-07-13	416036.75	0	95.61	3.723	130.683000
5419	38	2012-07-20	441683.74	0	85.53	3.726	130.701290
5420	38	2012-07-27	407186.47	0	93.47	3.769	130.719581
5421	38	2012-08-03	469311.17	0	88.16	3.760	130.737871
5422	38	2012-08-10	436690.13	0	95.91	3.811	130.756161
5423	38	2012-08-17	411866.46	0	94.87	4.002	130.790968
5424	38	2012-08-24	397428.22	0	85.32	4.055	130.838161
5425	38	2012-08-31	424904.95	0	89.78	4.093	130.885355
5426	38	2012-09-07	490274.82	1	88.52	4.124	130.932548
5427	38	2012-09-14	430944.39	0	83.64	4.133	130.977667
5428	38	2012-09-21	409600.98	0	82.97	4.125	131.010333
5429	38	2012-09-28	398468.08	0	81.22	3.966	131.043000
5430	38	2012-10-05	458479.01	0	81.61	3.966	131.075667

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
5431	38	2012-10-12	437320.66	0	71.74	4.468	131.108333
5432	38	2012-10-19	428806.46	0	68.66	4.449	131.149968
5433	38	2012-10-26	417290.38	0	65.95	4.301	131.193097
5534	39	2012-01-06	1478537.93	0	55.83	3.157	218.406288
5535	39	2012-01-13	1369125.37	0	54.66	3.261	218.582339
5536	39	2012-01-20	1394841.03	0	58.04	3.268	218.675529
5537	39	2012-01-27	1320301.61	0	60.65	3.290	218.768720
5538	39	2012-02-03	1396150.15	0	60.69	3.360	218.861910
5539	39	2012-02-10	1442988.44	1	52.89	3.409	218.955100
5540	39	2012-02-17	1511041.69	0	52.75	3.510	219.114830
5541	39	2012-02-24	1412065.04	0	61.10	3.555	219.324464
5542	39	2012-03-02	1453047.02	0	64.05	3.630	219.534098
5543	39	2012-03-09	1470764.35	0	61.64	3.669	219.743731
5544	39	2012-03-16	1522421.07	0	65.81	3.734	219.895634
5545	39	2012-03-23	1469593.37	0	67.91	3.787	219.970560
5546	39	2012-03-30	1499727.02	0	69.11	3.845	220.045486
5547	39	2012-04-06	1764847.94	0	73.49	3.891	220.120412
5548	39	2012-04-13	1580732.73	0	71.59	3.891	220.195339
5549	39	2012-04-20	1433391.04	0	70.04	3.877	220.248394
5550	39	2012-04-27	1456997.20	0	69.11	3.814	220.301448
5551	39	2012-05-04	1512227.34	0	77.15	3.749	220.354503
5552	39	2012-05-11	1470792.41	0	75.52	3.688	220.407558
5553	39	2012-05-18	1522978.54	0	72.36	3.630	220.425215
5554	39	2012-05-25	1596036.66	0	78.31	3.561	220.428712
5555	39	2012-06-01	1640476.77	0	80.33	3.501	220.432210
5556	39	2012-06-08	1623442.24	0	81.12	3.452	220.435707
5557	39	2012-06-15	1587499.82	0	81.33	3.393	220.449415
5558	39	2012-06-22	1532316.79	0	79.84	3.346	220.488647
5559	39	2012-06-29	1492388.98	0	85.72	3.286	220.527880
5560	39	2012-07-06	1659221.99	0	81.05	3.227	220.567112
5561	39	2012-07-13	1471261.76	0	78.16	3.256	220.606344
5562	39	2012-07-20	1582168.27	0	80.32	3.311	220.614875
5563	39	2012-07-27	1487797.54	0	82.89	3.407	220.623405
5564	39	2012-08-03	1608277.74	0	84.05	3.417	220.631936
5565	39	2012-08-10	1641867.92	0	83.47	3.494	220.640466
5566	39	2012-08-17	1720221.91	0	84.72	3.571	220.719961
5567	39	2012-08-24	1724669.75	0	80.49	3.620	220.852679
5568	39	2012-08-31	1710923.94	0	83.72	3.638	220.985396

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
5569	39	2012-09-07	1609811.75	1	83.71	3.730	221.118114
5570	39	2012-09-14	1447614.08	0	76.71	3.717	221.260121
5571	39	2012-09-21	1555672.51	0	73.58	3.721	221.457860
5572	39	2012-09-28	1495607.07	0	78.04	3.666	221.655600
5573	39	2012-10-05	1574408.67	0	72.05	3.617	221.853340
5574	39	2012-10-12	1494417.07	0	69.88	3.601	222.051079
5575	39	2012-10-19	1577486.33	0	71.45	3.594	222.095172
5576	39	2012-10-26	1569502.00	0	72.90	3.506	222.113657
5677	40	2012-01-06	954576.86	0	23.29	3.439	136.698129
5678	40	2012-01-13	780607.52	0	25.90	3.523	136.753000
5679	40	2012-01-20	811365.42	0	14.02	3.542	136.856419
5680	40	2012-01-27	770157.29	0	22.91	3.568	136.959839
5681	40	2012-02-03	979552.34	0	27.86	3.633	137.063258
5682	40	2012-02-10	999785.48	1	23.92	3.655	137.166677
5683	40	2012-02-17	975500.87	0	25.56	3.703	137.258310
5684	40	2012-02-24	919301.81	0	29.88	3.751	137.341103
5685	40	2012-03-02	927732.02	0	23.79	3.827	137.423897
5686	40	2012-03-09	954233.87	0	30.58	3.876	137.506690
5687	40	2012-03-16	891154.18	0	37.13	3.867	137.584387
5688	40	2012-03-23	844490.86	0	52.27	3.889	137.655290
5689	40	2012-03-30	871945.64	0	36.25	3.921	137.726193
5690	40	2012-04-06	1132064.23	0	36.54	3.957	137.797097
5691	40	2012-04-13	857811.17	0	40.65	4.025	137.868000
5692	40	2012-04-20	896979.93	0	55.30	4.046	137.923067
5693	40	2012-04-27	875372.91	0	47.51	4.023	137.978133
5694	40	2012-05-04	993311.59	0	44.47	3.991	138.033200
5695	40	2012-05-11	967729.35	0	52.06	3.947	138.088267
5696	40	2012-05-18	896295.41	0	57.59	3.899	138.106581
5697	40	2012-05-25	991054.49	0	65.25	3.850	138.110194
5698	40	2012-06-01	1037464.27	0	64.75	3.798	138.113807
5699	40	2012-06-08	1079386.88	0	55.78	3.746	138.117419
5700	40	2012-06-15	977950.28	0	63.39	3.683	138.129533
5701	40	2012-06-22	1033552.18	0	69.32	3.629	138.162900
5702	40	2012-06-29	988764.84	0	64.42	3.577	138.196267
5703	40	2012-07-06	1182901.56	0	69.08	3.538	138.229633
5704	40	2012-07-13	979848.71	0	67.48	3.561	138.263000
5705	40	2012-07-20	968502.38	0	70.45	3.610	138.233193
5706	40	2012-07-27	954396.85	0	67.88	3.701	138.203387

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
5707	40	2012-08-03	1068346.76	0	70.15	3.698	138.173581
5708	40	2012-08-10	1007906.43	0	70.09	3.772	138.143774
5709	40	2012-08-17	969387.48	0	69.41	3.840	138.185710
5710	40	2012-08-24	945318.47	0	63.91	3.874	138.281452
5711	40	2012-08-31	987264.67	0	66.11	3.884	138.377194
5712	40	2012-09-07	1088248.40	1	65.06	3.921	138.472936
5713	40	2012-09-14	901709.82	0	59.38	3.988	138.567300
5714	40	2012-09-21	899768.40	0	54.12	4.056	138.653400
5715	40	2012-09-28	919595.44	0	50.98	4.018	138.739500
5716	40	2012-10-05	1069112.00	0	57.21	4.027	138.825600
5717	40	2012-10-12	982523.26	0	47.35	4.029	138.911700
5718	40	2012-10-19	918170.50	0	46.33	4.000	138.833613
5719	40	2012-10-26	921264.52	0	49.65	3.917	138.728161
5820	41	2012-01-06	1208191.61	0	37.21	3.095	196.545831
5821	41	2012-01-13	1134767.28	0	27.49	3.077	196.733052
5822	41	2012-01-20	1116295.24	0	31.56	3.055	196.779665
5823	41	2012-01-27	1079398.81	0	33.15	3.038	196.826279
5824	41	2012-02-03	1208825.60	0	31.65	3.031	196.872892
5825	41	2012-02-10	1238844.56	1	22.00	3.103	196.919506
5826	41	2012-02-17	1330451.46	0	22.52	3.113	196.943271
5827	41	2012-02-24	1224915.66	0	27.89	3.129	196.949901
5828	41	2012-03-02	1239813.26	0	27.39	3.191	196.956530
5829	41	2012-03-09	1243814.77	0	35.30	3.286	196.963160
5830	41	2012-03-16	1201511.62	0	47.76	3.486	197.045721
5831	41	2012-03-23	1215354.38	0	44.04	3.664	197.229523
5832	41	2012-03-30	1239423.19	0	51.56	3.750	197.413326
5833	41	2012-04-06	1460234.31	0	48.48	3.854	197.597128
5834	41	2012-04-13	1323004.73	0	46.84	3.901	197.780931
5835	41	2012-04-20	1220815.33	0	43.57	3.936	197.722738
5836	41	2012-04-27	1248950.65	0	57.66	3.927	197.664546
5837	41	2012-05-04	1359770.73	0	52.86	3.903	197.606353
5838	41	2012-05-11	1353285.10	0	50.22	3.870	197.548161
5839	41	2012-05-18	1331514.44	0	55.24	3.837	197.555314
5840	41	2012-05-25	1424500.47	0	54.89	3.804	197.588605
5841	41	2012-06-01	1374891.36	0	57.29	3.764	197.621895
5842	41	2012-06-08	1436383.84	0	65.11	3.741	197.655186
5843	41	2012-06-15	1384584.59	0	64.92	3.723	197.692292
5844	41	2012-06-22	1386407.17	0	66.88	3.735	197.738934

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
5845	41	2012-06-29	1355600.01	0	76.54	3.693	197.785577
5846	41	2012-07-06	1456300.89	0	74.47	3.646	197.832220
5847	41	2012-07-13	1332594.07	0	67.24	3.613	197.878862
5848	41	2012-07-20	1347175.93	0	74.06	3.585	197.929038
5849	41	2012-07-27	1344723.97	0	73.31	3.570	197.979214
5850	41	2012-08-03	1439607.35	0	73.16	3.528	198.029389
5851	41	2012-08-10	1504545.94	0	71.73	3.509	198.079565
5852	41	2012-08-17	1560590.05	0	65.77	3.545	198.100106
5853	41	2012-08-24	1464462.85	0	69.07	3.558	198.098420
5854	41	2012-08-31	1360517.52	0	71.56	3.556	198.096734
5855	41	2012-09-07	1392143.82	1	67.41	3.596	198.095048
5856	41	2012-09-14	1306644.25	0	59.39	3.659	198.126718
5857	41	2012-09-21	1276609.36	0	59.81	3.765	198.358523
5858	41	2012-09-28	1307928.01	0	56.08	3.789	198.590328
5859	41	2012-10-05	1400160.95	0	50.14	3.779	198.822132
5860	41	2012-10-12	1409544.97	0	39.38	3.760	199.053937
5861	41	2012-10-19	1326197.24	0	49.56	3.750	199.148196
5862	41	2012-10-26	1316542.59	0	41.80	3.686	199.219532
5963	42	2012-01-06	636372.37	0	59.85	3.443	130.157516
5964	42	2012-01-13	664348.20	0	51.00	3.477	130.244000
5965	42	2012-01-20	579499.93	0	54.51	3.660	130.279226
5966	42	2012-01-27	538978.67	0	53.59	3.675	130.314452
5967	42	2012-02-03	588448.21	0	56.85	3.543	130.349677
5968	42	2012-02-10	674919.45	1	55.73	3.722	130.384903
5969	42	2012-02-17	606671.50	0	54.12	3.781	130.454621
5970	42	2012-02-24	564304.15	0	56.02	3.950	130.550207
5971	42	2012-03-02	585895.34	0	57.62	3.882	130.645793
5972	42	2012-03-09	659816.15	0	57.65	3.963	130.741379
5973	42	2012-03-16	618767.26	0	62.11	4.273	130.826193
5974	42	2012-03-23	561226.38	0	56.54	4.288	130.896645
5975	42	2012-03-30	544408.14	0	67.92	4.294	130.967097
5976	42	2012-04-06	652312.11	0	65.99	4.282	131.037548
5977	42	2012-04-13	639123.45	0	70.28	4.254	131.108000
5978	42	2012-04-20	552529.23	0	67.75	4.111	131.117333
5979	42	2012-04-27	526625.49	0	80.11	4.088	131.126667
5980	42	2012-05-04	609274.89	0	77.02	4.058	131.136000
5981	42	2012-05-11	643603.69	0	76.03	4.186	131.145333
5982	42	2012-05-18	590636.38	0	85.19	4.308	131.098323

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
5983	42	2012-05-25	535764.58	0	86.03	4.127	131.028774
5984	42	2012-06-01	521953.78	0	80.06	4.277	130.959226
5985	42	2012-06-08	642671.48	0	86.87	4.103	130.889677
5986	42	2012-06-15	606309.13	0	88.58	4.144	130.829533
5987	42	2012-06-22	540031.29	0	89.92	4.014	130.792900
5988	42	2012-06-29	507403.77	0	91.36	3.875	130.756267
5989	42	2012-07-06	618702.09	0	86.87	3.666	130.719633
5990	42	2012-07-13	628099.08	0	89.80	3.723	130.683000
5991	42	2012-07-20	530318.39	0	84.45	3.589	130.701290
5992	42	2012-07-27	516352.21	0	83.98	3.769	130.719581
5993	42	2012-08-03	573084.71	0	84.76	3.595	130.737871
5994	42	2012-08-10	576620.31	0	90.78	3.811	130.756161
5995	42	2012-08-17	575997.78	0	88.83	4.002	130.790968
5996	42	2012-08-24	535537.03	0	82.50	4.055	130.838161
5997	42	2012-08-31	504760.57	0	86.97	3.886	130.885355
5998	42	2012-09-07	617405.35	1	83.07	4.124	130.932548
5999	42	2012-09-14	586737.66	0	78.47	3.966	130.977667
6000	42	2012-09-21	527165.70	0	81.93	4.125	131.010333
6001	42	2012-09-28	505978.46	0	82.52	3.966	131.043000
6002	42	2012-10-05	593162.53	0	80.88	4.132	131.075667
6003	42	2012-10-12	612379.90	0	76.03	4.468	131.108333
6004	42	2012-10-19	541406.98	0	72.71	4.449	131.149968
6005	42	2012-10-26	514756.08	0	70.50	4.301	131.193097
6106	43	2012-01-06	670993.01	0	47.59	3.157	211.242813
6107	43	2012-01-13	663529.64	0	43.68	3.261	211.411571
6108	43	2012-01-20	619225.65	0	52.72	3.268	211.499781
6109	43	2012-01-27	587685.38	0	52.10	3.290	211.587991
6110	43	2012-02-03	629176.71	0	51.92	3.360	211.676200
6111	43	2012-02-10	662198.65	1	46.54	3.409	211.764410
6112	43	2012-02-17	660632.05	0	49.38	3.510	211.916835
6113	43	2012-02-24	613042.97	0	53.53	3.555	212.117421
6114	43	2012-03-02	693249.98	0	56.43	3.630	212.318007
6115	43	2012-03-09	636677.67	0	54.52	3.669	212.518594
6116	43	2012-03-16	661707.02	0	57.88	3.734	212.665157
6117	43	2012-03-23	610940.94	0	56.28	3.787	212.739689
6118	43	2012-03-30	623258.40	0	69.88	3.845	212.814221
6119	43	2012-04-06	658468.27	0	64.70	3.891	212.888754
6120	43	2012-04-13	665687.92	0	70.18	3.891	212.963286

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
6121	43	2012-04-20	638144.98	0	67.28	3.877	213.013052
6122	43	2012-04-27	593138.59	0	78.27	3.814	213.062819
6123	43	2012-05-04	637964.20	0	77.47	3.749	213.112586
6124	43	2012-05-11	640159.04	0	67.59	3.688	213.162352
6125	43	2012-05-18	648541.81	0	72.06	3.630	213.175362
6126	43	2012-05-25	597406.39	0	82.41	3.561	213.173668
6127	43	2012-06-01	605078.62	0	80.89	3.501	213.171975
6128	43	2012-06-08	643032.51	0	85.73	3.452	213.170281
6129	43	2012-06-15	634815.10	0	87.75	3.393	213.178695
6130	43	2012-06-22	613270.79	0	87.51	3.346	213.212379
6131	43	2012-06-29	593128.13	0	89.85	3.286	213.246062
6132	43	2012-07-06	645618.59	0	82.68	3.227	213.279745
6133	43	2012-07-13	627634.04	0	78.82	3.256	213.313429
6134	43	2012-07-20	596554.05	0	83.83	3.311	213.321912
6135	43	2012-07-27	572447.52	0	82.01	3.407	213.330396
6136	43	2012-08-03	614378.94	0	85.06	3.417	213.338880
6137	43	2012-08-10	643558.78	0	86.36	3.494	213.347364
6138	43	2012-08-17	640210.85	0	85.66	3.571	213.422696
6139	43	2012-08-24	598234.64	0	81.65	3.620	213.548164
6140	43	2012-08-31	593141.29	0	81.12	3.638	213.673631
6141	43	2012-09-07	663814.18	1	84.99	3.730	213.799099
6142	43	2012-09-14	625196.94	0	73.03	3.717	213.933217
6143	43	2012-09-21	601990.02	0	75.87	3.721	214.119233
6144	43	2012-09-28	577792.32	0	77.55	3.666	214.305250
6145	43	2012-10-05	642614.89	0	74.09	3.617	214.491267
6146	43	2012-10-12	619369.72	0	71.14	3.601	214.677283
6147	43	2012-10-19	623919.23	0	71.25	3.594	214.721249
6148	43	2012-10-26	587603.55	0	69.17	3.506	214.741539
6249	44	2012-01-06	325327.93	0	33.80	3.080	130.157516
6250	44	2012-01-13	312361.88	0	25.61	3.056	130.244000
6251	44	2012-01-20	316948.39	0	32.71	3.047	130.279226
6252	44	2012-01-27	308295.38	0	34.32	3.058	130.314452
6253	44	2012-02-03	325986.05	0	31.39	3.077	130.349677
6254	44	2012-02-10	325377.97	1	33.73	3.116	130.384903
6255	44	2012-02-17	320691.21	0	36.57	3.119	130.454621
6256	44	2012-02-24	315641.80	0	35.38	3.145	130.550207
6257	44	2012-03-02	316687.22	0	32.36	3.242	130.645793
6258	44	2012-03-09	303438.24	0	38.24	3.380	130.741379

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
6259	44	2012-03-16	331965.95	0	52.50	3.529	130.826193

In [25]: `year_2012.Month.value_counts()`

Out[25]:
```
3     225
6     225
8     225
1     180
2     180
4     180
5     180
7     180
9     180
10    180
Name: Month, dtype: int64
```

In [26]:
```python
#First Quarter
Quarters = year_2012.groupby('Month')
Q1 = Quarters.get_group(1)
Q2 = Quarters.get_group(2)
Q3 = Quarters.get_group(3)

First_Quarter = Q1.append(Q2)
First_Quarter = First_Quarter.append(Q3)
First_Quarter.Month.value_counts()

#Second Quarter
Q4 = Quarters.get_group(4)
Q5 = Quarters.get_group(5)
Q6 = Quarters.get_group(6)

Second_Quarter = Q4.append(Q5)
Second_Quarter = Second_Quarter.append(Q6)
Second_Quarter.Month.value_counts()

#Third Quarter
Q7 = Quarters.get_group(7)
Q8 = Quarters.get_group(8)
Q9 = Quarters.get_group(9)

Third_Quarter = Q7.append(Q8)
Third_Quarter = Third_Quarter.append(Q9)
Third_Quarter.Month.value_counts()

#Fourth Quarter
Q10 = Quarters.get_group(10)


Fourth_Quarter = Q10
Fourth_Quarter.Month.value_counts()

print('-------------------------------------First Quarter
-------------------------------------------------------------------------
')
display(First_Quarter.head())
print('-------------------------------------Second Quarter
-------------------------------------------------------------------------
')
display(Second_Quarter.head())
print('-------------------------------------Third Quarter
-------------------------------------------------------------------------
')
display(Third_Quarter.head())
print('-------------------------------------Fourth Quarter
-------------------------------------------------------------------------
')
display(Fourth_Quarter.head())
```

```
------------------------------------First Quarter
------------------------------------------------------------------------
```

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
100	1	2012-01-06	1550369.92	0	49.01	3.157	219.714258
101	1	2012-01-13	1459601.17	0	48.53	3.261	219.892526
102	1	2012-01-20	1394393.84	0	54.11	3.268	219.985689
103	1	2012-01-27	1319325.59	0	54.26	3.290	220.078852
243	2	2012-01-06	1799520.14	0	46.75	3.157	219.355063

```
-------------------------------------Second Quarter
------------------------------------------------------------------------
```

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
113	1	2012-04-06	1899676.88	0	70.43	3.891	221.435611
114	1	2012-04-13	1621031.70	0	69.07	3.891	221.510210
115	1	2012-04-20	1521577.87	0	66.76	3.877	221.564074
116	1	2012-04-27	1468928.37	0	67.23	3.814	221.617937
256	2	2012-04-06	2129035.91	0	68.43	3.891	221.073764

```
--------------------------------------Third Quarter
------------------------------------------------------------------------
```

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
126	1	2012-07-06	1769854.16	0	81.57	3.227	221.883779
127	1	2012-07-13	1527014.04	0	77.12	3.256	221.924158
128	1	2012-07-20	1497954.76	0	80.42	3.311	221.932727
129	1	2012-07-27	1439123.71	0	82.66	3.407	221.941295
269	2	2012-07-06	2041507.40	0	84.20	3.227	221.521506

```
-------------------------------------Fourth Quarter
------------------------------------------------------------------------
```

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI
139	1	2012-10-05	1670785.97	0	68.55	3.617	223.181477
140	1	2012-10-12	1573072.81	0	62.99	3.601	223.381296
141	1	2012-10-19	1508068.77	0	67.97	3.594	223.425723
142	1	2012-10-26	1493659.74	0	69.16	3.506	223.444251
282	2	2012-10-05	1998321.04	0	70.27	3.617	222.815930

In [27]:
```python
data2 = pd.DataFrame(First_Quarter.groupby('Store')['Weekly_Sales'].sum
())
data2['Q1_Sales'] = pd.DataFrame(First_Quarter.groupby('Store')['Weekly_S
ales'].sum())
data2['Q2_Sales'] = pd.DataFrame(Second_Quarter.groupby('Store')['Weekly_
Sales'].sum())
data2['Q3_Sales'] = pd.DataFrame(Third_Quarter.groupby('Store')['Weekly_S
ales'].sum())
data2['Q4_Sales'] = pd.DataFrame(Fourth_Quarter.groupby('Store')['Weekly_
Sales'].sum())
data2.head()
```

Out[27]:

Store	Weekly_Sales	Q1_Sales	Q2_Sales	Q3_Sales	Q4_Sales
1	20723762.83	20723762.83	20978760.12	20253947.78	6245587.29
2	24528220.70	24528220.70	25083604.88	24303354.86	7581514.93
3	5421809.72	5421809.72	5620316.49	5298005.47	1684307.82
4	27930310.30	27930310.30	28454363.67	27796792.46	8589722.81
5	4237380.83	4237380.83	4466363.69	4163790.99	1301302.62

In [28]:
```python
data2= data2.drop('Weekly_Sales',axis=1)
data2.head()
```

Out[28]:

Store	Q1_Sales	Q2_Sales	Q3_Sales	Q4_Sales
1	20723762.83	20978760.12	20253947.78	6245587.29
2	24528220.70	25083604.88	24303354.86	7581514.93
3	5421809.72	5620316.49	5298005.47	1684307.82
4	27930310.30	28454363.67	27796792.46	8589722.81
5	4237380.83	4466363.69	4163790.99	1301302.62

In [29]:
```python
#Increase Sale rate formula- ((Current value – Previous value )/Previous
value )*100
data2['Overall_Growth_Rate in Q3(2012)'] = ((data2['Q3_Sales'] - data2['Q
2_Sales'])/data2['Q2_Sales'])*100
data2['Overall_Growth_Rate in Q3(2012)'].idxmax()
```

Out[29]: 7

```
In [30]:  plt.figure(figsize=(12,7))
          sns.barplot(x=data2.index,y=data2['Overall_Growth_Rate in Q3(2012)'])
```

Out[30]: <matplotlib.axes._subplots.AxesSubplot at 0x7f8904923590>
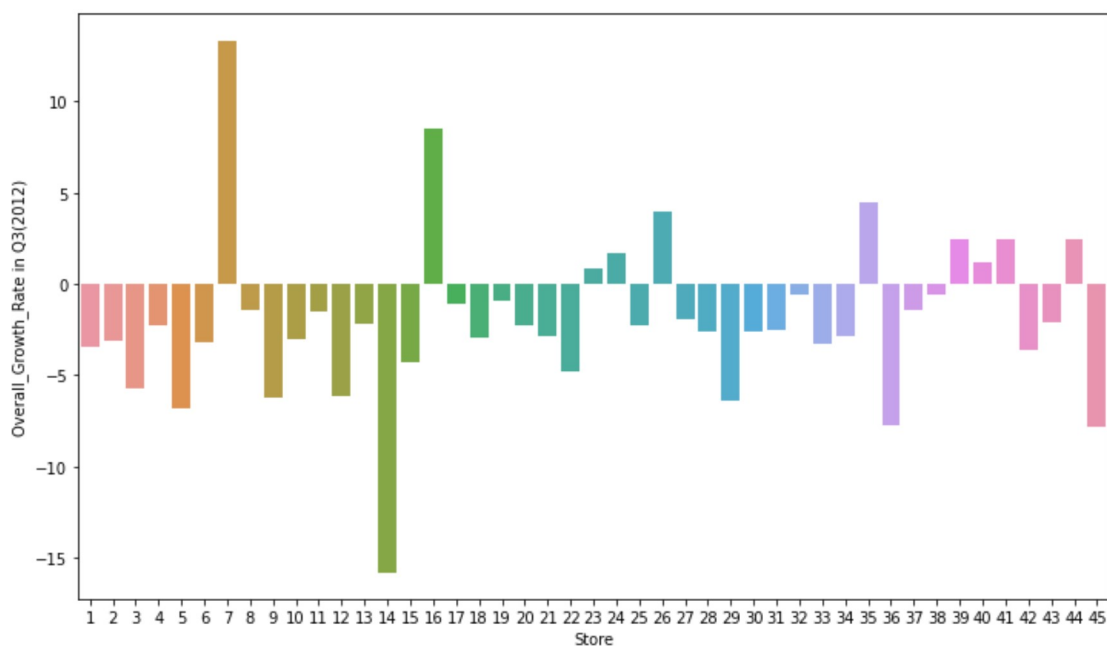
Some holidays have a negative impact on sales. Find out holidays which have higher sales than the mean sales in non-holiday season for all stores together.

```
In [31]:  data.groupby('Holiday_Flag')['Weekly_Sales'].mean()
```

Out[31]: Holiday_Flag
          0   1.041256e+06
          1   1.122888e+06
          Name: Weekly_Sales, dtype: float64

```
In [32]:  data['Date'] = pd.to_datetime(data['Date'])
```

```
In [33]:  data.head()
```

Out[33]:

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI	Un
0	1	2010-02-05	1643690.90	0	42.31	2.572	211.096358	
1	1	2010-02-12	1641957.44	1	38.51	2.548	211.242170	
2	1	2010-02-19	1611968.17	0	39.93	2.514	211.289143	
3	1	2010-02-26	1409727.59	0	46.63	2.561	211.319643	
4	1	2010-03-05	1554806.68	0	46.50	2.625	211.350143	

Holiday Events

Super Bowl: 12-Feb-10, 11-Feb-11, 10-Feb-12, 8-Feb-13 Labour Day: 10-Sep-10, 9-Sep-11, 7-Sep-12, 6-Sep-13 Thanksgiving: 26-Nov-10, 25-Nov-11, 23-Nov-12, 29-Nov-13 Christmas: 31-Dec-10, 30-Dec-11, 28-Dec-12, 27-Dec-13

```
In [34]:  SuperBowl1 = pd.Timestamp(2010,2,12)
          SuperBowl2 = pd.Timestamp(2011,2,11)
          SuperBowl3 = pd.Timestamp(2012,2,11)
          SuperBowl4 = pd.Timestamp(2013,2,8)

          LabourDay1 = pd.Timestamp(2010,9,10)
          LabourDay2 = pd.Timestamp(2011,9,9)
          LabourDay3 = pd.Timestamp(2012,9,7)
          LabourDay4 = pd.Timestamp(2013,9,6)

          ThanksGiving1 = pd.Timestamp(2010,11,26)
          ThanksGiving2 = pd.Timestamp(2011,11,25)
          ThanksGiving3 = pd.Timestamp(2012,11,23)
          ThanksGiving4 = pd.Timestamp(2013,11,29)

          Christmas1 = pd.Timestamp(2010,12,31)
          Christmas2 = pd.Timestamp(2011,12,30)
          Christmas3 = pd.Timestamp(2012,12,28)
          Christmas4 = pd.Timestamp(2013,12,27)
```

```
In [35]:  SuperBowl_Sales = data[(data['Date'] == SuperBowl1)|(data['Date'] == Supe
          rBowl2)|(data['Date'] == SuperBowl3)|(data['Date'] == SuperBowl4)]
          LabourDay_Sales = data[(data['Date'] == LabourDay1)|(data['Date'] == Labo
          urDay2)|(data['Date'] == LabourDay3)|(data['Date'] == LabourDay4)]
          ThanksGiving_Sales = data[(data['Date'] == ThanksGiving1)|(data['Date'] =
          = ThanksGiving2)|(data['Date'] == ThanksGiving3)|(data['Date'] == ThanksG
          iving4)]
          Christmas_Sales = data[(data['Date'] == Christmas1)|(data['Date'] == Chri
          stmas2)|(data['Date'] == Christmas3)|(data['Date'] == Christmas4)]
```

```
In [36]:  # Find out holidays which have higher sales than the mean sales in non-ho
          liday season for all stores together
          List_Of_Mean_Sales = {'SuperBowl Mean Sales':round(SuperBowl_Sales['Weekl
          y_Sales'].mean(),1),
                                'LabourDay Mean Sales':round(LabourDay_Sales['Weekl
          y_Sales'].mean(),1),
                                'Thanksgiving Mean Sales':round(ThanksGiving_Sales
          ['Weekly_Sales'].mean(),1),
                                'Christmas Mean Sales':round(Christmas_Sales['Weekl
          y_Sales'].mean(),1)}
          List_Of_Mean_Sales
```

```
Out[36]:  {'Christmas Mean Sales': 960833.1,
           'LabourDay Mean Sales': 1042427.3,
           'SuperBowl Mean Sales': 1063031.9,
           'Thanksgiving Mean Sales': 1471273.4}
```

Provide a monthly and semester view of sales in units and give insights

In [37]:
```python
#Monthly sales
monthly = data.groupby(pd.Grouper(key='Date', freq='1M')).sum() # groupby
each 1 month
monthly=monthly.reset_index()
fig, ax = plt.subplots(figsize=(10,5))
X = monthly['Date']
Y = monthly['Weekly_Sales']
plt.plot(X,Y)
plt.title('Month Wise Sales')
plt.xlabel('Monthly')
plt.ylabel('Weekly_Sales')
```

Out[37]: Text(0, 0.5, 'Weekly_Sales')
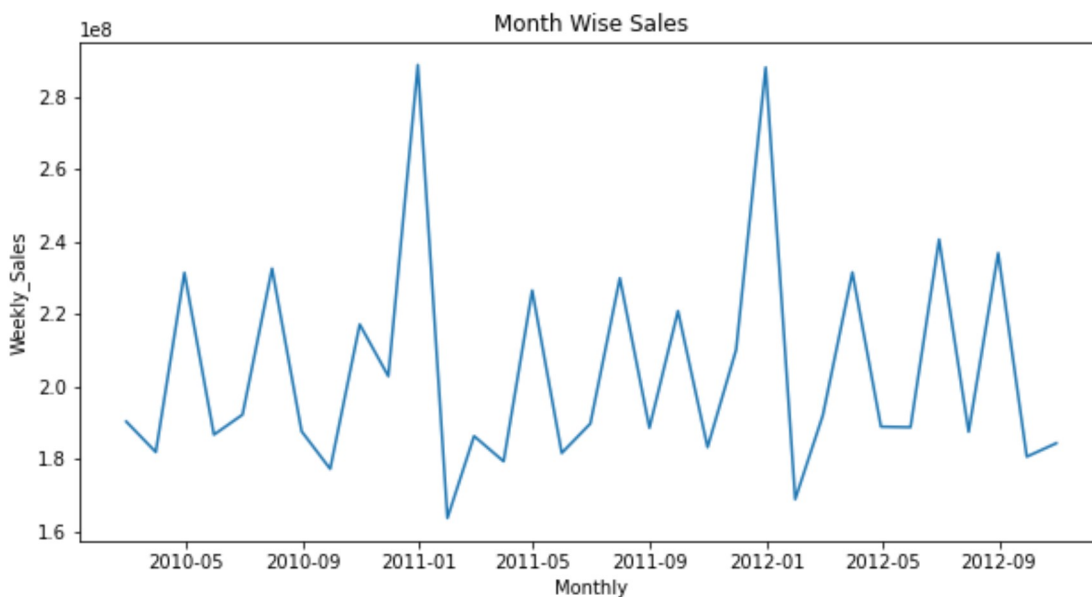
In [38]:
```python
#Semester Sales
Semester = data.groupby(pd.Grouper(key='Date', freq='6M')).sum()
Semester = Semester.reset_index()
fig, ax = plt.subplots(figsize=(10,5))
X = Semester['Date']
Y = Semester['Weekly_Sales']
plt.plot(X,Y)
plt.title('Semester Wise Sales')
plt.xlabel('Semester')
plt.ylabel('Weekly_Sales')
```

Out[38]: Text(0, 0.5, 'Weekly_Sales')
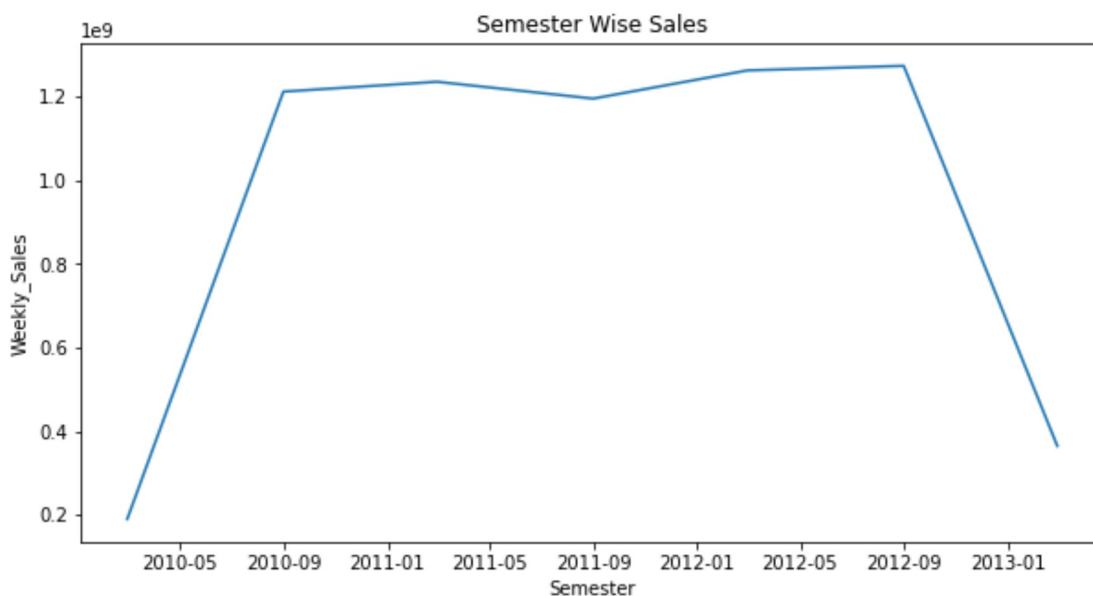
For Store 1 – Build prediction models to forecast demand Linear Regression – Utilize variables like date and restructure dates as 1 for 5 Feb 2010 (starting from the earliest date in order). Hypothesize if CPI, unemployment, and fuel price have any impact on sales. Change dates into days by creating new variable.

```
In [39]: hypothesis = data.groupby('Store')[['Fuel_Price','Unemployment', 'CPI','W
         eekly_Sales', 'Holiday_Flag']]
         factors  = hypothesis.get_group(1) #Filter by Store 1
         day_arr = [1]
         for i in range (1,len(factors)):
             day_arr.append(i*7)

         factors['Day'] = day_arr.copy()
         factors
```

```
/usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:7: SettingW
ithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-d
ocs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
  import sys
```

Out[39]:

	Fuel_Price	Unemployment	CPI	Weekly_Sales	Holiday_Flag	Day
0	2.572	8.106	211.096358	1643690.90	0	1
1	2.548	8.106	211.242170	1641957.44	1	7
2	2.514	8.106	211.289143	1611968.17	0	14
3	2.561	8.106	211.319643	1409727.59	0	21
4	2.625	8.106	211.350143	1554806.68	0	28
5	2.667	8.106	211.380643	1439541.59	0	35
6	2.720	8.106	211.215635	1472515.79	0	42
7	2.732	8.106	211.018042	1404429.92	0	49
8	2.719	7.808	210.820450	1594968.28	0	56
9	2.770	7.808	210.622857	1545418.53	0	63
10	2.808	7.808	210.488700	1466058.28	0	70
11	2.795	7.808	210.439123	1391256.12	0	77
12	2.780	7.808	210.389546	1425100.71	0	84
13	2.835	7.808	210.339968	1603955.12	0	91
14	2.854	7.808	210.337426	1494251.50	0	98
15	2.826	7.808	210.617093	1399662.07	0	105
16	2.759	7.808	210.896761	1432069.95	0	112
17	2.705	7.808	211.176428	1615524.71	0	119
18	2.668	7.808	211.456095	1542561.09	0	126
19	2.637	7.808	211.453772	1503284.06	0	133
20	2.653	7.808	211.338653	1422711.60	0	140
21	2.669	7.787	211.223533	1492418.14	0	147
22	2.642	7.787	211.108414	1546074.18	0	154
23	2.623	7.787	211.100385	1448938.92	0	161
24	2.608	7.787	211.235144	1385065.20	0	168
25	2.640	7.787	211.369903	1371986.60	0	175
26	2.627	7.787	211.504662	1605491.78	0	182
27	2.692	7.787	211.639421	1508237.76	0	189
28	2.664	7.787	211.603363	1513080.49	0	196
29	2.619	7.787	211.567306	1449142.92	0	203
30	2.577	7.787	211.531248	1540163.53	0	210
31	2.565	7.787	211.495190	1507460.69	1	217

	Fuel_Price	Unemployment	CPI	Weekly_Sales	Holiday_Flag	Day
32	2.582	7.787	211.522460	1430378.67	0	224
33	2.624	7.787	211.597225	1351791.03	0	231
34	2.603	7.838	211.671989	1453329.50	0	238
35	2.633	7.838	211.746754	1508239.93	0	245
36	2.720	7.838	211.813744	1459409.10	0	252
37	2.725	7.838	211.861294	1345454.00	0	259
38	2.716	7.838	211.908844	1384209.22	0	266
39	2.689	7.838	211.956394	1551659.28	0	273
40	2.728	7.838	212.003944	1494479.49	0	280
41	2.771	7.838	211.889674	1483784.18	0	287
42	2.735	7.838	211.748433	1955624.11	1	294
43	2.708	7.838	211.607193	1548033.78	0	301
44	2.843	7.838	211.465953	1682614.26	0	308
45	2.869	7.838	211.405312	1891034.93	0	315
46	2.886	7.838	211.405122	2387950.20	0	322
47	2.943	7.838	211.404932	1367320.01	1	329
48	2.976	7.742	211.404742	1444732.28	0	336
49	2.983	7.742	211.457411	1391013.96	0	343
50	3.016	7.742	211.827234	1327405.42	0	350
51	3.010	7.742	212.197058	1316899.31	0	357
52	2.989	7.742	212.566881	1606629.58	0	364
53	3.022	7.742	212.936705	1649614.93	1	371
54	3.045	7.742	213.247885	1686842.78	0	378
55	3.065	7.742	213.535609	1456800.28	0	385
56	3.288	7.742	213.823333	1636263.41	0	392
57	3.459	7.742	214.111056	1553191.63	0	399
58	3.488	7.742	214.362711	1576818.06	0	406
59	3.473	7.742	214.599939	1541102.38	0	413
60	3.524	7.682	214.837166	1495064.75	0	420
61	3.622	7.682	215.074394	1614259.35	0	427
62	3.743	7.682	215.291856	1559889.00	0	434
63	3.807	7.682	215.459905	1564819.81	0	441
64	3.810	7.682	215.627954	1455090.69	0	448
65	3.906	7.682	215.796004	1629391.28	0	455
66	3.899	7.682	215.964053	1604775.58	0	462
67	3.907	7.682	215.733920	1428218.27	0	469
68	3.786	7.682	215.503788	1466046.67	0	476
69	3.699	7.682	215.273655	1635078.41	0	483

	Fuel_Price	Unemployment	CPI	Weekly_Sales	Holiday_Flag	Day
70	3.648	7.682	215.043523	1588948.32	0	490
71	3.637	7.682	214.998060	1532114.86	0	497
72	3.594	7.682	215.091098	1438830.15	0	504
73	3.524	7.962	215.184137	1488538.09	0	511
74	3.480	7.962	215.277175	1534849.64	0	518
75	3.575	7.962	215.361109	1455119.97	0	525
76	3.651	7.962	215.422278	1396926.82	0	532
77	3.682	7.962	215.483448	1352219.79	0	539
78	3.684	7.962	215.544618	1624383.75	0	546
79	3.638	7.962	215.605788	1525147.09	0	553
80	3.554	7.962	215.669311	1530761.43	0	560
81	3.523	7.962	215.733226	1464693.46	0	567
82	3.533	7.962	215.797141	1550229.22	0	574
83	3.546	7.962	215.861056	1540471.24	1	581
84	3.526	7.962	216.041053	1514259.78	0	588
85	3.467	7.962	216.375825	1380020.27	0	595
86	3.355	7.962	216.710597	1394561.83	0	602
87	3.285	7.866	217.045368	1630989.95	0	609
88	3.274	7.866	217.355273	1493525.93	0	616
89	3.353	7.866	217.515976	1502562.78	0	623
90	3.372	7.866	217.676679	1445249.09	0	630
91	3.332	7.866	217.837382	1697229.58	0	637
92	3.297	7.866	217.998085	1594938.89	0	644
93	3.308	7.866	218.220509	1539483.70	0	651
94	3.236	7.866	218.467621	2033320.66	1	658
95	3.172	7.866	218.714733	1584083.95	0	665
96	3.158	7.866	218.961846	1799682.38	0	672
97	3.159	7.866	219.179453	1881176.67	0	679
98	3.112	7.866	219.357722	2270188.99	0	686
99	3.129	7.866	219.535990	1497462.72	1	693
100	3.157	7.348	219.714258	1550369.92	0	700
101	3.261	7.348	219.892526	1459601.17	0	707
102	3.268	7.348	219.985689	1394393.84	0	714
103	3.290	7.348	220.078852	1319325.59	0	721
104	3.360	7.348	220.172015	1636339.65	0	728
105	3.409	7.348	220.265178	1802477.43	1	735
106	3.510	7.348	220.425759	1819870.00	0	742
107	3.555	7.348	220.636902	1539387.83	0	749

	Fuel_Price	Unemployment	CPI	Weekly_Sales	Holiday_Flag	Day
108	3.630	7.348	220.848045	1688420.76	0	756
109	3.669	7.348	221.059189	1675431.16	0	763
110	3.734	7.348	221.211813	1677472.78	0	770
111	3.787	7.348	221.286413	1511068.07	0	777
112	3.845	7.348	221.361012	1649604.63	0	784
113	3.891	7.143	221.435611	1899676.88	0	791
114	3.891	7.143	221.510210	1621031.70	0	798
115	3.877	7.143	221.564074	1521577.87	0	805
116	3.814	7.143	221.617937	1468928.37	0	812
117	3.749	7.143	221.671800	1684519.99	0	819
118	3.688	7.143	221.725663	1611096.05	0	826
119	3.630	7.143	221.742674	1595901.87	0	833
120	3.561	7.143	221.744944	1555444.55	0	840
121	3.501	7.143	221.747214	1624477.58	0	847
122	3.452	7.143	221.749484	1697230.96	0	854
123	3.393	7.143	221.762642	1630607.00	0	861
124	3.346	7.143	221.803021	1527845.81	0	868
125	3.286	7.143	221.843400	1540421.49	0	875
126	3.227	6.908	221.883779	1769854.16	0	882
127	3.256	6.908	221.924158	1527014.04	0	889
128	3.311	6.908	221.932727	1497954.76	0	896
129	3.407	6.908	221.941295	1439123.71	0	903
130	3.417	6.908	221.949864	1631135.79	0	910
131	3.494	6.908	221.958433	1592409.97	0	917
132	3.571	6.908	222.038411	1597868.05	0	924
133	3.620	6.908	222.171946	1494122.38	0	931
134	3.638	6.908	222.305480	1582083.40	0	938
135	3.730	6.908	222.439015	1661767.33	1	945
136	3.717	6.908	222.582019	1517428.87	0	952
137	3.721	6.908	222.781839	1506126.06	0	959
138	3.666	6.908	222.981658	1437059.26	0	966

In [40]: `sns.heatmap(factors.corr(), annot = True,cmap=plt.cm.rainbow)`

Out[40]: `<matplotlib.axes._subplots.AxesSubplot at 0x7f8902f61d50>`
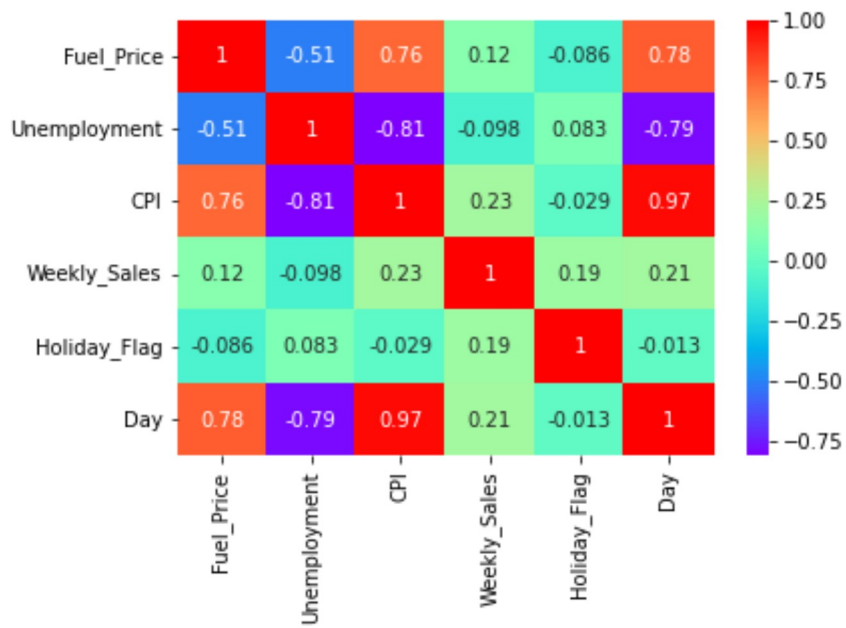
In [42]:
```
sns.lmplot(x='Fuel_Price', y = 'Unemployment', data = factors,line_kws={'
color': 'green'})
#plt.figure()
sns.lmplot(x='CPI', y = 'Unemployment',data = factors, line_kws={'color':
'green'})
```

Out[42]: <seaborn.axisgrid.FacetGrid at 0x7f89004a3fd0>
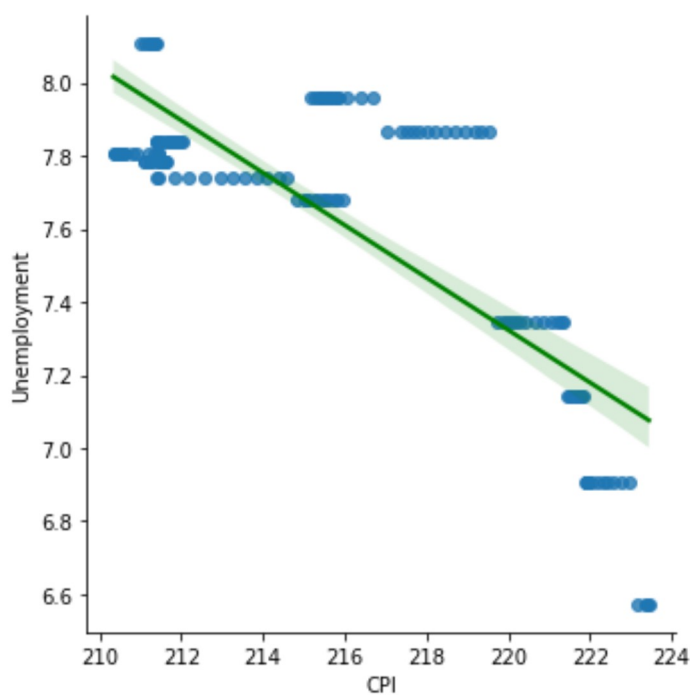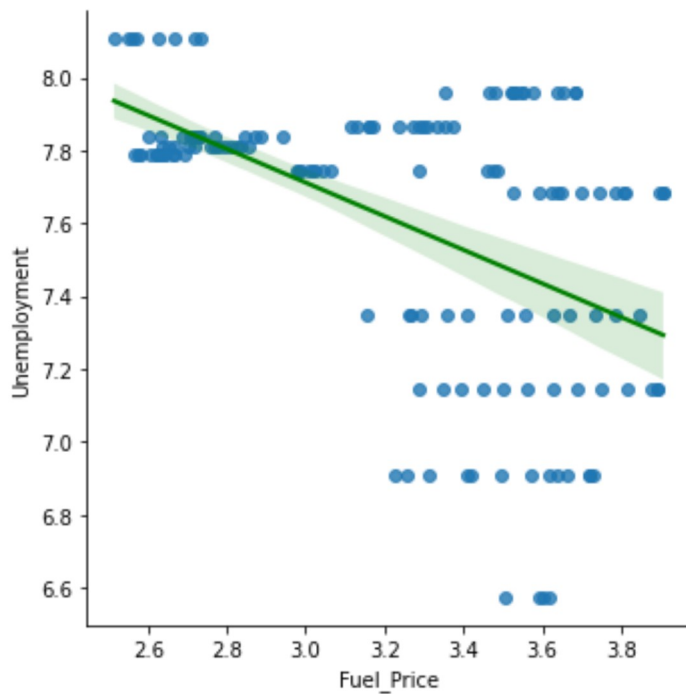
In [45]:
```python
#Hypothesis Testing - CPI
from scipy import stats
ttest,p_val = stats.ttest_rel(factors['Weekly_Sales'],factors['CPI'])
sns.distplot(factors.CPI)
plt.figure()
print(p_val)
if p_val<0.05:
    print("reject null hypothesis")
else:
    print("accept null hypothesis")

sns.scatterplot(x='CPI', y = 'Weekly_Sales', data = factors, hue = 'Holid
ay_Flag')
#plt.figure()
sns.lmplot(x='CPI', y = 'Weekly_Sales', data = factors, hue = 'Holiday_Fl
ag')
#plt.figure()
sns.lineplot(x='CPI', y = 'Weekly_Sales', data = factors)
```
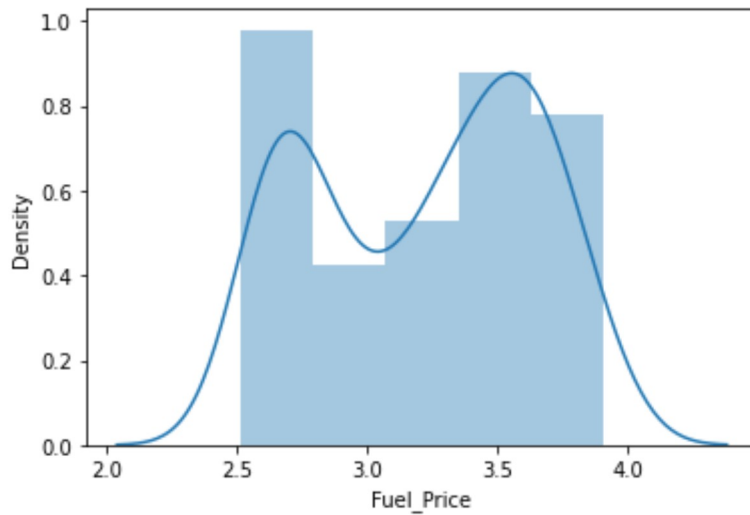
```
/usr/local/lib/python3.7/dist-packages/seaborn/distributions.py:2619: Fu
tureWarning: `distplot` is a deprecated function and will be removed in
a future version. Please adapt your code to use either `displot` (a figu
re-level function with similar flexibility) or `histplot` (an axes-level
function for histograms).
  warnings.warn(msg, FutureWarning)

3.106725927640744e-144
reject null hypothesis
```
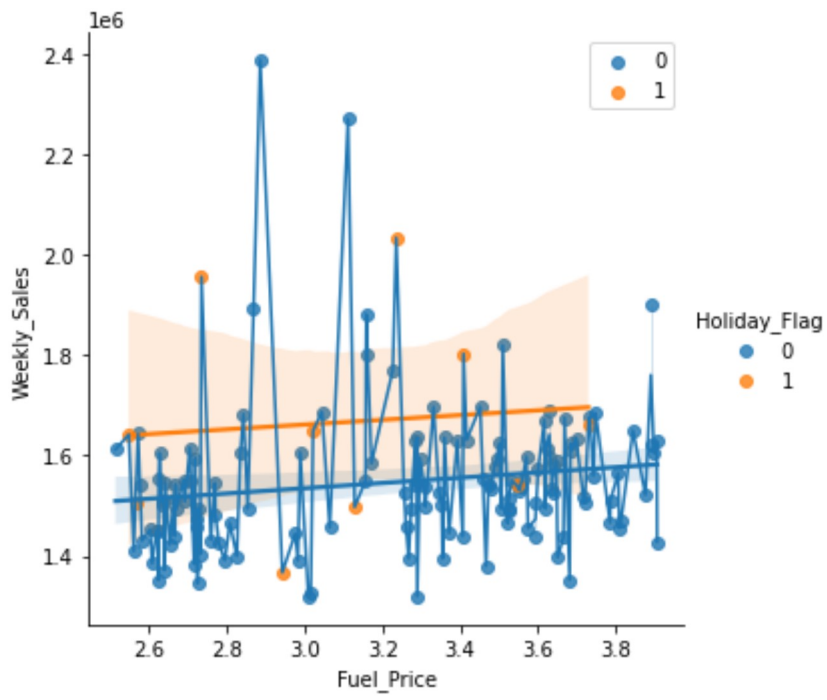
Out[45]: <matplotlib.axes._subplots.AxesSubplot at 0x7f8900011d10>
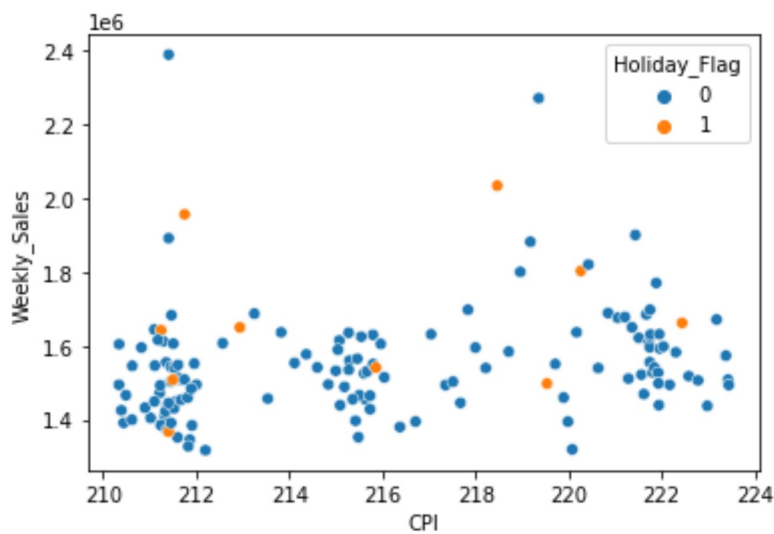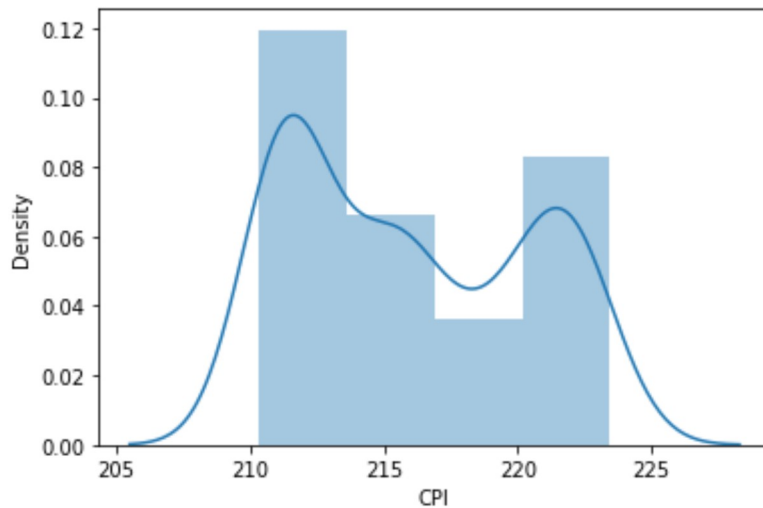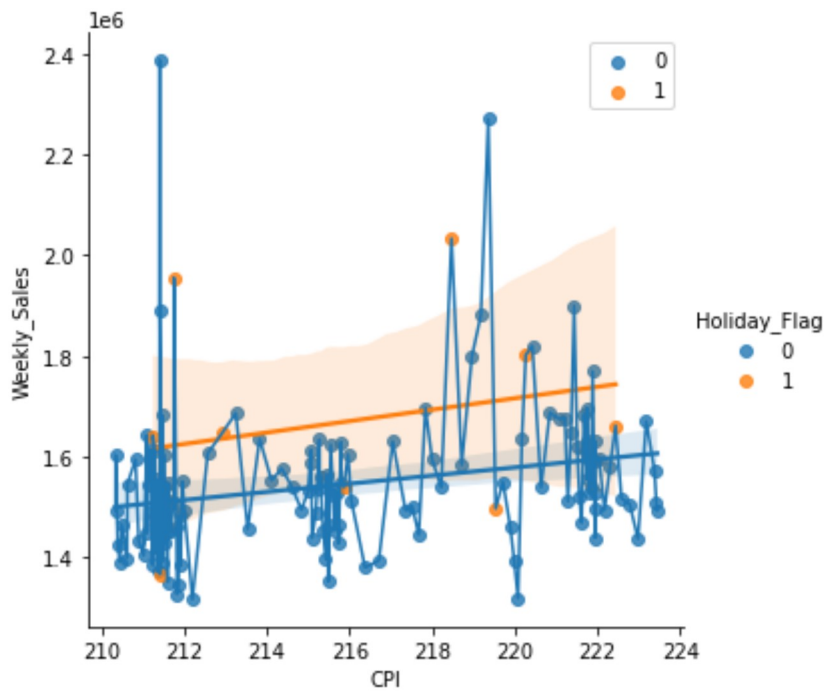
In [47]:
```python
#Hypothesis Fuel Price
from scipy import stats
ttest,p_val = stats.ttest_rel(factors['Weekly_Sales'],factors['Fuel_Price'])
sns.distplot(factors.Fuel_Price)
plt.figure()
print(p_val)
if p_val<0.05:
    print("reject null hypothesis")
else:
    print("accept null hypothesis")


sns.scatterplot(x='Fuel_Price', y = 'Weekly_Sales', data = factors, hue = 'Holiday_Flag')
#plt.figure()
sns.lmplot(x='Fuel_Price', y = 'Weekly_Sales', data = factors, hue = 'Holiday_Flag')
#plt.figure()
sns.lineplot(x='Fuel_Price', y = 'Weekly_Sales', data = factors)
```

```
/usr/local/lib/python3.7/dist-packages/seaborn/distributions.py:2619: Fu
tureWarning: `distplot` is a deprecated function and will be removed in
a future version. Please adapt your code to use either `displot` (a figu
re-level function with similar flexibility) or `histplot` (an axes-level
function for histograms).
  warnings.warn(msg, FutureWarning)

3.050079726743709e-144
reject null hypothesis
```

Out[47]:   <matplotlib.axes._subplots.AxesSubplot at 0x7f89002a1910>
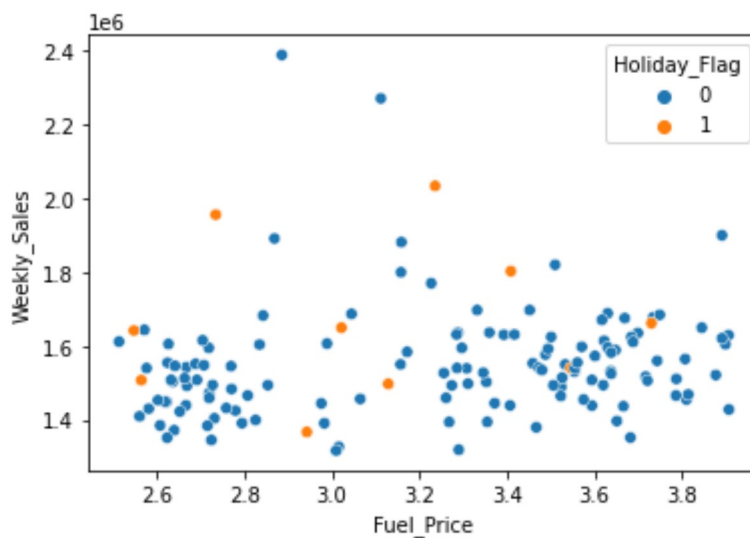
In [48]:
```python
#Hypothesis Unemployment
from scipy import stats
ttest,p_val = stats.ttest_rel(factors['Weekly_Sales'],factors['Unemployme
nt'])
sns.distplot(factors.Unemployment)
plt.figure()
print(p_val)
if p_val<0.05:
    print("reject null hypothesis")
else:
    print("accept null hypothesis")

sns.scatterplot(x='Unemployment', y = 'Weekly_Sales', data = factors, hue
= 'Holiday_Flag')
#plt.figure()
sns.lmplot(x='Unemployment', y = 'Weekly_Sales', data = factors, hue = 'H
oliday_Flag')
#plt.figure()
sns.lineplot(x='Unemployment', y = 'Weekly_Sales', data = factors)
```

```
/usr/local/lib/python3.7/dist-packages/seaborn/distributions.py:2619: Fu
tureWarning: `distplot` is a deprecated function and will be removed in
a future version. Please adapt your code to use either `displot` (a figu
re-level function with similar flexibility) or `histplot` (an axes-level
function for histograms).
  warnings.warn(msg, FutureWarning)

3.0515405336011733e-144
reject null hypothesis
```
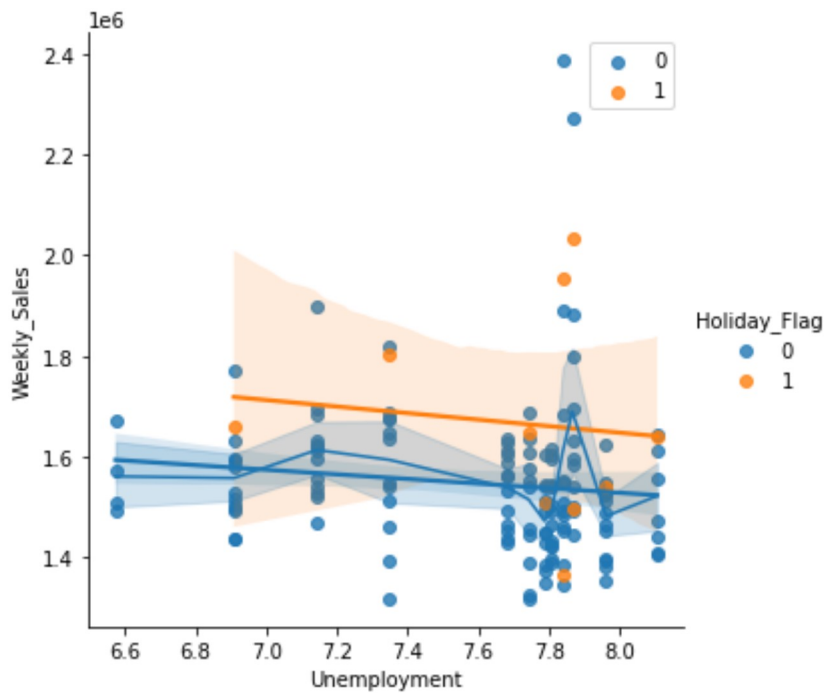
Out[48]: <matplotlib.axes._subplots.AxesSubplot at 0x7f890025fb90>
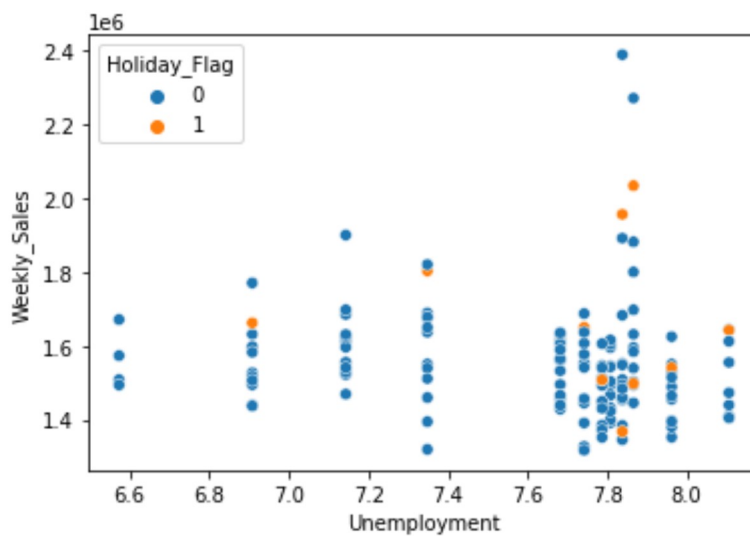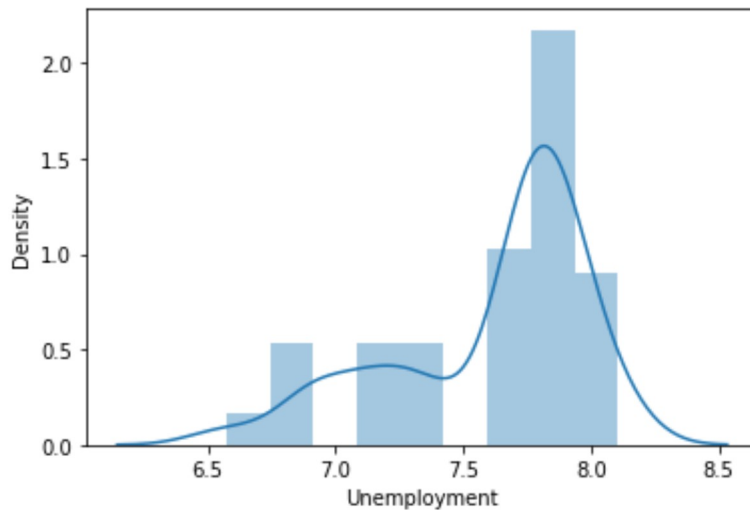
In [52]:
```python
plt.figure(figsize=(20,5)) #Plotting the Weekly_sales for store 1 (Day wi
se)
sns.barplot(x='Day', y = 'Weekly_Sales', data = factors.head(50), hue = '
Holiday_Flag')
```

Out[52]:   <matplotlib.axes._subplots.AxesSubplot at 0x7f88ff648050>