```
In [5]:
import numpy as np
import pandas as pd
from pandas import Series, DataFrame
import matplotlib.pyplot as pp
import matplotlib.pyplot as plt
import seaborn as sb
from pylab import rcParams
import datetime as DT
In [6]:
%matplotlib inline
rcParams ['figure.figsize']=15,8
sb.set style('whitegrid')
import chardet
In [7]:
data= pd.read_csv("nypd_mv_collisions")
In [93]:
data
Out[93]:
            borough contributing_factor_vehicle_1 contributing_factor_vehicle_2 contributing_factor_vehicle_3
      0
               NaN
                                  Unspecified
                                                           Unspecified
                                                                                          NaN
      1
         BROOKLYN
                                  Unspecified
                                                           Unspecified
                                                                                          NaN
      2
                      Driver Inattention/Distraction
               NaN
                                                           Unspecified
                                                                                          NaN
      3
         BROOKLYN
                                  Unspecified
                                                           Unspecified
                                                                                          NaN
```

```
data.columns
Out[9]:
Index(['borough', 'contributing factor vehicle 1',
       'contributing_factor_vehicle_2', 'contributing_factor_vehicle_3
        'contributing_factor_vehicle_4', 'contributing_factor_vehicle_5
       'cross_street_name', 'timestamp', 'latitude', 'longitude', 'loc
ation',
        'number of cyclist injured', 'number of cyclist killed',
        'number_of_motorist_injured', 'number_of_motorist_killed',
        'number of pedestrians injured', 'number of pedestrians killed'
        'number of persons injured', 'number of persons killed',
        'off street name', 'on street name', 'unique key', 'vehicle typ
e code1',
        'vehicle type code2', 'vehicle type code 3', 'vehicle type code
_4',
        'vehicle type code 5', 'zip code'],
      dtype='object')
In [10]:
brooklyndata= data.loc[data['borough']=='BROOKLYN']
In [11]:
brooklyndata
Out[11]:
          borough contributing_factor_vehicle_1 contributing_factor_vehicle_2 contributing_factor_vehicle_3 c
      1
                               Unspecified
                                                       Unspecified
        BROOKLYN
                                                                                    NaN
      3
                               Unspecified
                                                       Unspecified
        BROOKLYN
                                                                                    NaN
      4
                               Unspecified
        BROOKLYN
                                                            NaN
                                                                                    NaN
      7
        BROOKLYN
                               Unspecified
                                                            NaN
                                                                                    NaN
```

In [9]:

# In [12]:

brooklyndata.groupby('contributing\_factor\_vehicle\_1')['number\_of\_persons\_injured'].r

# Out[12]:

contributing factor vehicle 1	
Accelerator Defective	0.436364
Aggressive Driving/Road Rage	0.427793
Alcohol Involvement	0.447368
Animals Action	0.350000
Backing Unsafely	0.113574
Brakes Defective	0.492754
Cell Phone (hand-held)	0.257143
Cell Phone (hands-free)	0.288462
Driver Inattention/Distraction	0.296007
·	0.269063
Driver Inexperience	0.108696
Driverless/Runaway Vehicle	0.447368
Drugs (Illegal)	0.345882
Failure to Keep Right	0.470703
Failure to Yield Right-of-Way	
Fatigued/Drowsy	0.270908
Fell Asleep	0.335878
Following Too Closely	0.322687
Glare	0.612150
Headlights Defective	0.450000
Illness	0.400000
Lane Marking Improper/Inadequate	0.333333
Lost Consciousness	0.133761
Obstruction/Debris	0.128527
Other Electronic Device	0.281553
Other Lighting Defects	0.380952
Other Vehicular	0.232079
Outside Car Distraction	0.238994
Oversized Vehicle	0.065946
Passenger Distraction	0.722513
Passing or Lane Usage Improper	0.160116
Pavement Defective	0.307377
Pavement Slippery	0.289280
Pedestrian/Bicyclist/Other Pedestrian Error/Confusion	0.761236
Physical Disability	0.672323
Prescription Medication	0.234284
Reaction to Other Uninvolved Vehicle	0.213604
Shoulders Defective/Improper	0.250000
Steering Failure	0.219731
Tire Failure/Inadequate	0.216667
Tow Hitch Defective	0.045455
Traffic Control Device Improper/Non-Working	0.700000
Traffic Control Disregarded	0.601558
Turning Improperly	0.175635
Unsafe Lane Changing	0.195676
Unsafe Speed	0.547927
Unspecified	0.279855

```
View Obstructed/Limited
                                                                 0.385855
Windshield Inadequate
                                                                 0.00000
Name: number_of_persons_injured, dtype: float64
In [13]:
num_accidents_no_kill = len(brooklyndata.loc[brooklyndata['number_of_persons_killed
In [14]:
num accidents with kill= len(brooklyndata.loc[brooklyndata['number of persons killed
brooklyn_accidents_with_kill = brooklyndata.loc[brooklyndata['number_of_persons_kil]
In [15]:
num accidents with kill
Out[15]:
280
In [16]:
brooklyn accidents with kill
Out[16]:
          borough contributing_factor_vehicle_1 contributing_factor_vehicle_2 contributing_factor_vehicle_3 c
   1277
        BROOKLYN
                          Passenger Distraction
                                                         Unspecified
                                                                                       NaN
   5785
        BROOKLYN
                                 Unspecified
                                                         Unspecified
                                                                                       NaN
  12354
                                 Unspecified
                                                                                       NaN
        BROOKLYN
                                                               NaN
  16342
        BROOKLYN
                      Traffic Control Disregarded
                                                         Unspecified
                                                                                       NaN
```

# In [17]:

brooklyn\_accidents\_with\_kill\_1=brooklyn\_accidents\_with\_kill['contributing\_factor\_veletions are not below the contribution of t

# In [18]:

brooklyn\_accidents\_with\_kill\_1.value\_counts()

#### Out[18]:

Unspecified	125
Driver Inattention/Distraction	33
Traffic Control Disregarded	32
Failure to Yield Right-of-Way	29
Passenger Distraction	11
Physical Disability	9
Alcohol Involvement	7
Backing Unsafely	7
View Obstructed/Limited	5
Unsafe Speed	5
Prescription Medication	4
Following Too Closely	3
Lost Consciousness	2
Glare	2
Pedestrian/Bicyclist/Other Pedestrian Error/Confusion	1
Driver Inexperience	1
Other Vehicular	1
Passing or Lane Usage Improper	1
Name: contributing_factor_vehicle_1, dtype: int64	

#### In [19]:

brooklyn\_accidents\_with\_kill\_1.value\_counts().plot(kind='bar')

# Out[19]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x1256555f8>



# In [20]:

brooklyn\_accidents=brooklyndata['contributing\_factor\_vehicle\_1'].value\_counts()

# In [21]:

brooklyn\_accidents

#### Out[21]:

Unspecified	139204
Driver Inattention/Distraction	26398
Failure to Yield Right-of-Way	12800
Fatigued/Drowsy	7844
Backing Unsafely	7713
Lost Consciousness	4994
Other Vehicular	4464
Prescription Medication	3786
Turning Improperly	3661
Traffic Control Disregarded	3210
Driver Inexperience	2754
Following Too Closely	2724
Physical Disability	2652
Pavement Slippery	2043
Outside Car Distraction	1908
Alcohol Involvement	1900
Oversized Vehicle	1850
Passing or Lane Usage Improper	1730
Passenger Distraction	1337

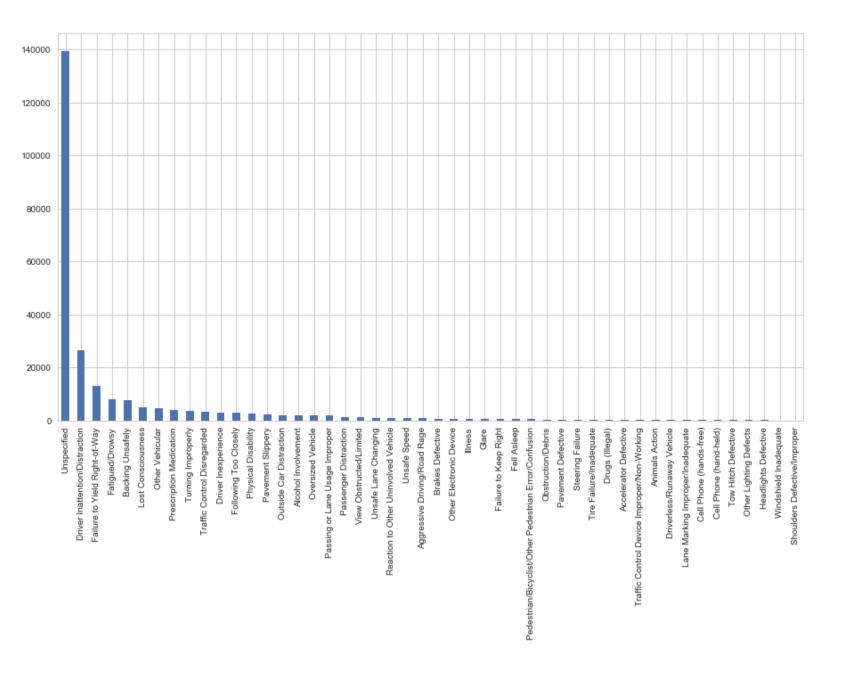
View Obstructed/Limited	1117
Unsafe Lane Changing	925
Reaction to Other Uninvolved Vehicle	838
Unsafe Speed	772
Aggressive Driving/Road Rage	734
Brakes Defective	621
Other Electronic Device	515
Illness	480
Glare	428
Failure to Keep Right	425
Fell Asleep	393
Pedestrian/Bicyclist/Other Pedestrian Error/Confusion	356
Obstruction/Debris	319
Pavement Defective	244
Steering Failure	223
Tire Failure/Inadequate	120
Drugs (Illegal)	114
Accelerator Defective	110
Traffic Control Device Improper/Non-Working	100
Animals Action	100
Driverless/Runaway Vehicle	92
Lane Marking Improper/Inadequate	54
Cell Phone (hands-free)	52
Cell Phone (hand-held)	35
Tow Hitch Defective	22
Other Lighting Defects	21
Headlights Defective	20
Windshield Inadequate	14
Shoulders Defective/Improper	4
Name: contributing_factor_vehicle_1, dtype: int64	

#### In [22]:

brooklyn\_accidents.plot(kind='bar')

#### Out[22]:

<matplotlib.axes. subplots.AxesSubplot at 0x116531da0>



#### In [23]:

drop\_Unspecified=brooklyndata.loc[brooklyndata['contributing\_factor\_vehicle\_1']!='Un

#### In [24]:

drop\_Unspecified

### Out[24]:

borough	contributing_factor_vehicle_1	contributing_factor_vehicle_2	contributing_factor_vehicle_3 c	
---------	-------------------------------	-------------------------------	---------------------------------	--

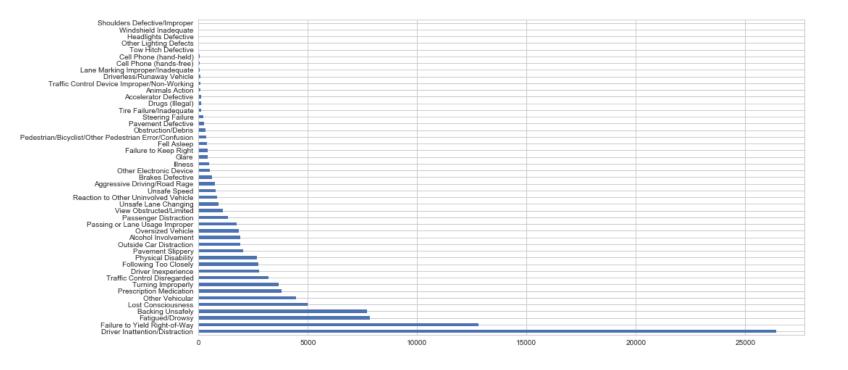
9	BROOKLYN	Driver Inattention/Distraction	Unspecified	Unspecified
35	BROOKLYN	Driver Inattention/Distraction	Unspecified	NaN
39	BROOKLYN	Oversized Vehicle	Unspecified	NaN
47	BROOKLYN	Driver Inexperience	Unspecified	NaN

#### In [25]:

factor\_counts\_no\_Unspecified=drop\_Unspecified['contributing\_factor\_vehicle\_1'].value
factor\_counts\_no\_Unspecified.plot(kind='barh')

#### Out[25]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x116a70c50>



#### In [26]:

factor counts no Unspecified

\_ \_ \_ \_ -

# Out[26]:

Driver Inattention/Distraction	26398
Failure to Yield Right-of-Way	12800
Fatigued/Drowsy	7844
Backing Unsafely	7713
Lost Consciousness	4994
Other Vehicular	4464
Prescription Medication	3786
Turning Improperly	3661
Traffic Control Disregarded	3210
Driver Inexperience	2754
Following Too Closely	2724
Physical Disability	2652
Pavement Slippery	2043
Outside Car Distraction	1908
Alcohol Involvement	1900
Oversized Vehicle	1850
Passing or Lane Usage Improper	1730
Passenger Distraction	1337
View Obstructed/Limited	1117
Unsafe Lane Changing	925
Reaction to Other Uninvolved Vehicle	838
Unsafe Speed	772
Aggressive Driving/Road Rage	734
Brakes Defective	621
Other Electronic Device	515
Illness	480
Glare	428
Failure to Keep Right	425
Fell Asleep	393
Pedestrian/Bicyclist/Other Pedestrian Error/Confusion	356
Obstruction/Debris	319
Pavement Defective	244
Steering Failure	223
Tire Failure/Inadequate	120
Drugs (Illegal)	114
Accelerator Defective	110
Animals Action	100
Traffic Control Device Improper/Non-Working	100
Driverless/Runaway Vehicle	92
Lane Marking Improper/Inadequate	54
Cell Phone (hands-free)	52
Cell Phone (hand-held)	35
Tow Hitch Defective	22
Other Lighting Defects	21
Headlights Defective	20
Windshield Inadequate	14
Shoulders Defective/Improper	4
Name: contributing factor vehicle 1, dtype: int64	ī

```
In [27]:
#cause_of_street_accident=
drop Unspecified on street=brooklyndata[pd.notnull(brooklyndata['on street name'])]
In [28]:
drop_Unspecified_2=drop_Unspecified_on_street.loc[drop_Unspecified_on_street['contr:
In [29]:
drop Unspecified on street['on street name']
Out[29]:
1
                  EMPIRE BOULEVARD
3
                      WILSON AVENUE
                     EAST 17 STREET
4
7
                        DREW STREET
9
                     NEPTUNE AVENUE
11
                FLATLANDS 2 STREET
              EAST NEW YORK AVENUE
18
31
                    WINTHROP STREET
35
                     EAST 29 STREET
37
               PENNSYLVANIA AVENUE
39
                       STATE STREET
43
                   WEIRFIELD STREET
45
                      LINDEN STREET
47
                    ROEBLING STREET
52
                          74 STREET
54
               PENNSYLVANIA AVENUE
60
                   LINDEN BOULEVARD
64
               VAN SINDEREN AVENUE
66
                     WHITNEY AVENUE
68
                  MC DONALD AVENUE
69
                    ATLANTIC AVENUE
76
                          50 STREET
83
                    ATLANTIC AVENUE
84
                    PARKSIDE AVENUE
86
                        BAY PARKWAY
87
                          77 STREET
104
                   FLATLANDS AVENUE
106
                           8 AVENUE
```

1089145 CONEY ISLAND AVENUE 1089146 FLATLANDS AVENUE 1089147 EASTERN PARKWAY

50 STREET

PROSPECT PLACE

116

119

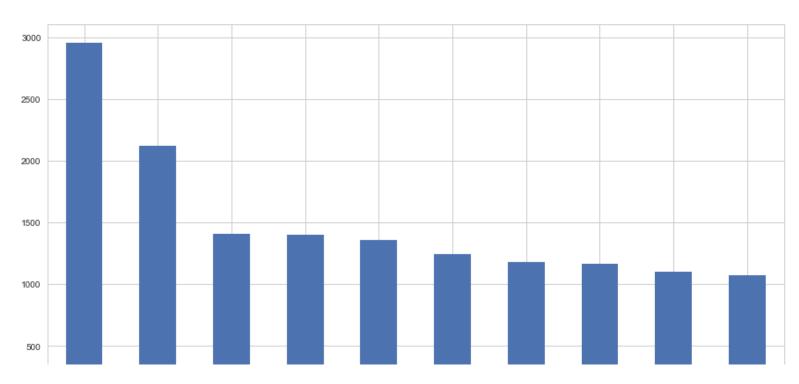
```
1089154
                        HOYT STREET
1089156
                 GREENPOINT AVENUE
                           3 AVENUE
1089158
                    HERKIMER STREET
1089161
1089162
                    EASTERN PARKWAY
                      THROOP AVENUE
1089168
1089169
                 WASHINGTON AVENUE
1089170
                       OCEAN AVENUE
1089171
                   NOSTRAND AVENUE
1089172
                    CLARKSON AVENUE
                      KINGS HIGHWAY
1089177
1089179
                       PARADE PLACE
           PROSPECT PARK SOUTHWEST
1089190
1089192
                           AVENUE P
1089193
                       SMITH STREET
1089201
                      EMMONS AVENUE
               PENNSYLVANIA AVENUE
1089211
1089220
                         LENOX ROAD
1089229
                      FARRAGUT ROAD
1089236
                           4 AVENUE
1089238
                       QUENTIN ROAD
                      LEGION STREET
1089242
1089243
                 SAINT JOHNS PLACE
1089246
                       RALPH AVENUE
1089249
                       CATON AVENUE
1089257
                      EAST 3 STREET
1089264
                   ROCKAWAY AVENUE
Name: on street name, Length: 220984, dtype: object
In [30]:
street with highest accident=drop Unspecified 2['on street name'].value counts()
top ten streets = street with highest accident[:10]
top ten streets.index
Out[30]:
Index(['ATLANTIC AVENUE', 'FLATBUSH AVENUE', 'BEDFORD AVENUE', 'OCEAN
PARKWAY',
       'NOSTRAND AVENUE', 'CONEY ISLAND AVENUE', '3 AVENUE', 'UTICA AV
ENUE',
       '4 AVENUE', 'EASTERN PARKWAY'],
      dtype='object')
```

#### In [177]:

top\_ten\_streets.plot(kind='bar')

# Out[177]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x12cf8ea90>



#### In [32]:

top\_ten\_street\_df = drop\_Unspecified\_2.loc[drop\_Unspecified\_2['on\_street\_name'].isin
top\_ten\_street\_df.groupby('on\_street\_name')['contributing\_factor\_vehicle\_1'].value\_

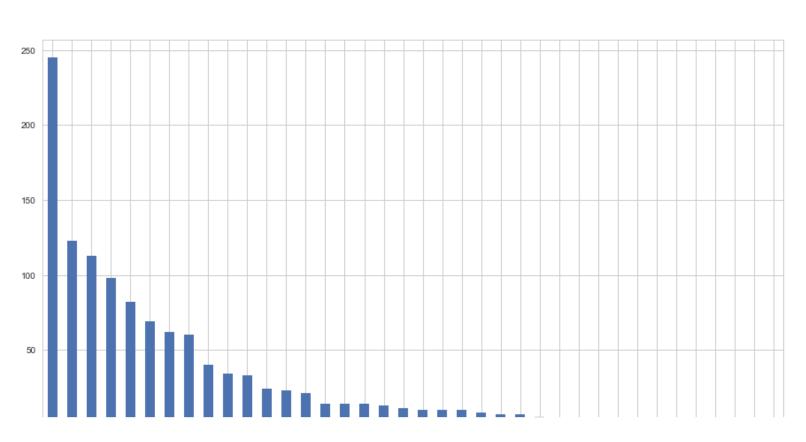
#### Out[32]:

<pre>on_street_name 3 AVENUE 245</pre>	<pre>contributing_factor_vehicle_1 Driver Inattention/Distraction</pre>
122	Failure to Yield Right-of-Way
123	Fatigued/Drowsy
113	Prescription Medication
98	Turning Improperly
82	
69	Lost Consciousness
62	Backing Unsafely
-	Physical Disability
60	Other Vehicular

# In [33]:

```
for title,group in top_ten_street_df.groupby('on_street_name'):
    print(title)
    group['contributing_factor_vehicle_1'].value_counts().plot(kind='bar')
    plt.show()
```

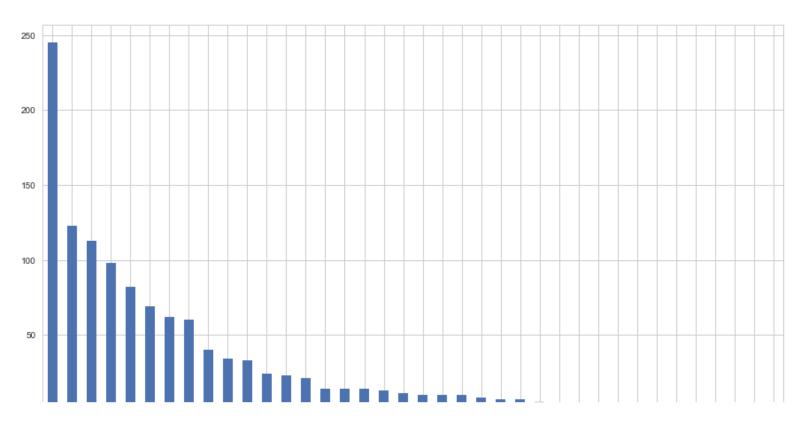
#### 3 AVENUE



```
In [34]:
```

```
for title,group in top_ten_street_df.groupby('on_street_name'):
    print(title)
    group['contributing_factor_vehicle_1'].value_counts().plot(kind='bar')
    plt.savefig(title)
    plt.show()
```

#### 3 AVENUE



#### In [315]:

```
data2=data['borough'].value_counts()
data2
```

#### Out[315]:

BROOKLYN 243354
QUEENS 206046
MANHATTAN 201461
BRONX 104782
STATEN ISLAND 36598
Name: borough, dtype: int64

# In [36]:

drop\_Unspecified.groupby('contributing\_factor\_vehicle\_1')['number\_of\_persons\_injured

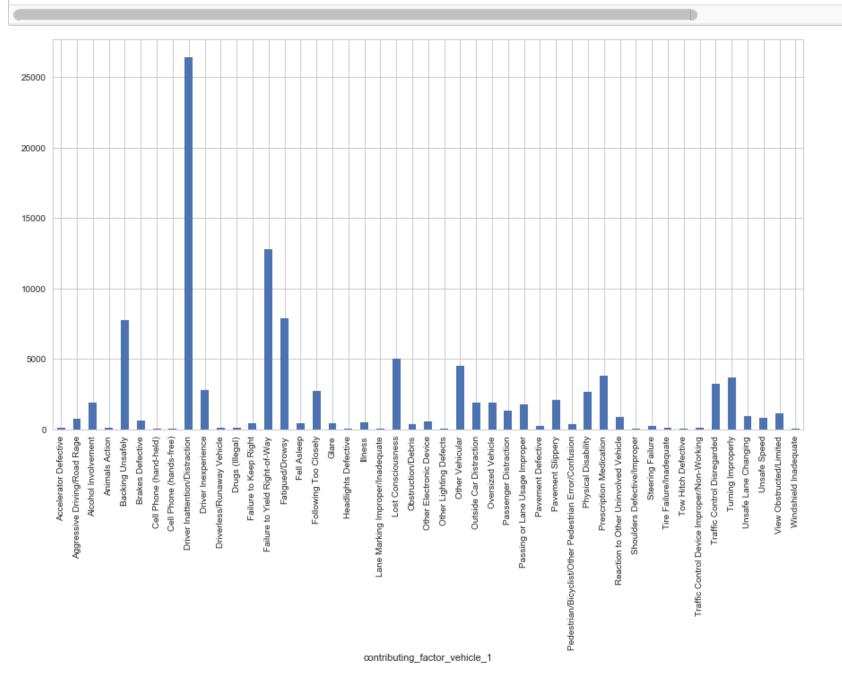
#### Out[36]:

contributing\_factor\_vehicle\_1

Accelerator Defective	48
Aggressive Driving/Road Rage	314
Alcohol Involvement	850
Animals Action	35
Backing Unsafely	876
Brakes Defective	306
Cell Phone (hand-held)	9
Cell Phone (hands-free)	15
Driver Inattention/Distraction	7814
Driver Inexperience	741
Driverless/Runaway Vehicle	10
Drugs (Illegal)	51
Failure to Keep Right	147
Failure to Yield Right-of-Way	6025
Fatigued/Drowsy	2125
Fell Asleep	132
Following Too Closely	879
Glare	262
Headlights Defective	9
Illness	192
Lane Marking Improper/Inadequate	18
Lost Consciousness	668
Obstruction/Debris	41
Other Electronic Device	145
Other Lighting Defects	8
Other Vehicular	1036
Outside Car Distraction	456
Oversized Vehicle	122
Passenger Distraction	966
Passing or Lane Usage Improper	277
Pavement Defective	75
Pavement Slippery	591
Pedestrian/Bicyclist/Other Pedestrian Error/Confusion	271
Physical Disability	1783
Prescription Medication	887
Reaction to Other Uninvolved Vehicle	179
Shoulders Defective/Improper	1
Steering Failure	49
Tire Failure/Inadequate	26
Tow Hitch Defective	1
Traffic Control Device Improper/Non-Working	70
Traffic Control Disregarded	1931
Turning Improperly	643
Unsafe Lane Changing	181
Unsafe Speed	423
View Obstructed/Limited	431
Windshield Inadequate	0
Name: number_of_persons_injured, dtype: int64	ŭ

```
In [37]:
```

da=drop\_Unspecified.groupby('contributing\_factor\_vehicle\_1')['number\_of\_persons\_inju



```
In [38]:
```

num accidents no kill

Out[38]:

243074

#### In [39]:

```
Injury_and_death.sum()
Out[40]:
number of cyclist injured
                                   3549
number_of_cyclist_killed
                                     11
number of motorist injured
                                  22385
number of motorist killed
                                     57
number_of_pedestrians_injured
                                   6990
number_of_pedestrians_killed
                                     90
number_of_persons_injured
                                  32403
number of persons killed
                                    159
dtype: int64
In [41]:
injury_alone=brooklyndata[['number_of_cyclist_injured','number_of_motorist_injured'
                         'number of pedestrians injured', 'number of persons injured'
injury alone.sum()
Out[41]:
number_of_cyclist_injured
                                   7575
number of motorist injured
                                  48008
number of pedestrians injured
                                  16509
number_of_persons_injured
                                  71360
dtype: int64
In [42]:
death_alone= brooklyndata[['number_of_cyclist_killed','number_of_motorist_killed',
                         'number of pedestrians killed', 'number of persons killed', ]
death alone.sum()
Out[42]:
number_of_cyclist_killed
                                  24
number_of_motorist_killed
                                  94
number of pedestrians killed
                                 169
number_of_persons_killed
                                 288
dtype: int64
```

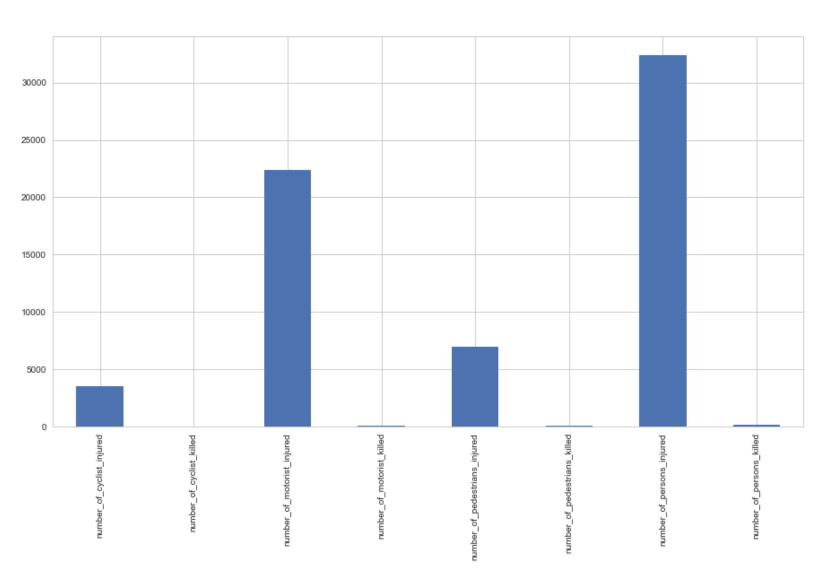
In [40]:

```
In [43]:
```

```
Injury_and_death.sum().plot(kind='bar')
```

#### Out[43]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x11902efd0>



#### In [44]:

#### In [45]:

```
accident_count=accident_by_on_street.groupby('on_street_name')['on_street_name'].co
```

#### In [46]:

```
accident_count
```

#### Out[46]:

on_street_name	
1 AVENUE	39
1 COURT	2
1 PLACE	13
1 STREET	18
10 AVENUE	167
10 STREET	17
100 STREET	6
101 STREET	3
11 AVENUE	173
11 STREET	18
12 AVENUE	179
12 STREET	16
13 AVENUE	345
13 STREET	6
14 AVENUE	302
14 STREET	32
15 AVENUE	189
15 STREET	49
16 AVENUE	194
16 STREET	45
	_
17 AVENUE	166
17 COURT	3
17 STREET	77
18 AVENUE	379
18 STREET	46
18TH AVE	2
19 AVENUE	97
19 STREET	78
2 AVENUE	165
2 PLACE	10
	• • •
WINTHROP ST	1
WINTHROP STREET	157
WITHERS STREET	26
WOLCOTT STREET	15
WOODBINE STREET	22
WOODDING STREET	5
WOODHOLL SIREET WOODPOINT ROAD	16
	16
WOODRUFF AVENUE	_
WOODS PLACE	2
WORTMAN AVENUE	54
WYCKOFF AVENUE	75
WYCKOFF STREET	31
WYONA STREET	14
WYTHE AVE	1
WYTHE AVENUE	370
WYTHE PLACE	5
YORK STREET	45
bge	1
linden boulevard	1
malcolm x blvd	1
mother gaston blvd	1
paulding street	1
Faarariig Doroco	

```
pitkin avenue
                           2
                           1
remsen avenue
saint johns place
                           1
schroeders avenue
                           1
skillman street
                           1
south 5th street
                           1
south conduit blvd
                           1
west 3rd
                           1
Name: on_street_name, Length: 1562, dtype: int64
In [94]:
accident count
Out[94]:
on_street_name
                         39
1 AVENUE
                           2
1 COURT
1 PLACE
                         13
1 STREET
                         18
                        167
10 AVENUE
10 STREET
                         17
100 STREET
                           6
                           3
101 STREET
11 AVENUE
                        173
11 STREET
                         18
                        179
12 AVENUE
12 STREET
                         16
                        345
13 AVENUE
13 STREET
                           6
                        302
14 AVENUE
14 STREET
                         32
                        189
15 AVENUE
15 STREET
                         49
                        194
16 AVENUE
                         45
16 STREET
17 AVENUE
                        166
17 COURT
                           3
                         77
17 STREET
                        379
18 AVENUE
18 STREET
                         46
                          2
18TH AVE
19 AVENUE
                         97
19 STREET
                         78
2 AVENUE
                        165
2 PLACE
                         10
```

1

157

26

1522

WINTHROP ST

WINTHROP STREET

WITHERS STREET

WOLCOTT STREET

WOODBINE STREET

```
WOODPOINT ROAD
                        16
                        16
WOODRUFF AVENUE
                         2
WOODS PLACE
WORTMAN AVENUE
                        54
WYCKOFF AVENUE
                        75
WYCKOFF STREET
                        31
WYONA STREET
                        14
WYTHE AVE
                         1
WYTHE AVENUE
                       370
WYTHE PLACE
                         5
YORK STREET
                        45
bge
                         1
linden boulevard
                         1
malcolm x blvd
                         1
mother gaston blvd
                         1
paulding street
                         1
pitkin avenue
                         2
remsen avenue
                         1
saint johns place
                         1
schroeders avenue
                         1
skillman street
                         1
south 5th street
                         1
                         1
south conduit blvd
west 3rd
                         1
Name: on street name, Length: 1562, dtype: int64
In [ ]:
In [48]:
top ten street df.groupby('on street name')['contributing factor vehicle 1'].count(
Out[48]:
on street name
3 AVENUE
                        1177
4 AVENUE
                        1088
ATLANTIC AVENUE
                        2937
BEDFORD AVENUE
                        1401
CONEY ISLAND AVENUE
                        1238
EASTERN PARKWAY
                        1067
```

5

WOODHULL STREET

FLATBUSH AVENUE

NOSTRAND AVENUE

OCEAN PARKWAY

UTICA AVENUE

2102

1348

1399

1155 Name: contributing factor vehicle 1, dtype: int64

```
In [49]:
top_ten_street_df = drop_Unspecified_2.loc[drop_Unspecified_2['on_street_name'].isin
top_ten_street_df.groupby('on_street_name')['contributing_factor_vehicle_1'].value_c
Out[49]:
on_street_name
               contributing_factor_vehicle_1
                Driver Inattention/Distraction
3 AVENUE
245
                Failure to Yield Right-of-Way
123
                Fatigued/Drowsy
113
                Prescription Medication
98
                Turning Improperly
82
                Lost Consciousness
69
```

#### In [50]:

62

60

0

### data['cross\_street\_name']

Backing Unsafely

Other Vehicular

59 AVENUE

Physical Disability

#### Out[50]:

1	UTICA AVENUE
2	NaN
3	JEFFERSON AVENUE
4	FOSTER AVENUE
5	NaN
6	136 AVENUE
7	LORING AVENUE
8	20 AVENUE
9	WEST 5 STREET
10	FINGERBOARD ROAD
11	EAST 105 STREET
12	SOUTH ROAD
13	ANNADALE ROAD
14	NaN
15	WOODSIDE AVENUE
16	34 AVENUE
17	EAST 58 STREET
18	JUNIUS STREET
19	NaN
20	101 AVENUE
21	NaN

```
23
                          NaN
24
            GREENWICH AVENUE
25
                         NaN
26
                         NaN
27
                         NaN
28
                    2 AVENUE
29
                GATES AVENUE
1089235
                  166 STREET
1089236
                UNION STREET
1089237
                 YORK AVENUE
1089238
              EAST 24 STREET
1089239
                         NaN
1089240
                          NaN
1089241
                    6 AVENUE
1089242
           RIVERDALE AVENUE
1089243
            NOSTRAND AVENUE
1089244
            CEDAR CROFT ROAD
1089245
                          NaN
1089246
               LINCOLN PLACE
1089247
                    BROADWAY
1089248
                    3 AVENUE
1089249
               EAST 2 STREET
1089250
            ROOSEVELT AVENUE
1089251
                          NaN
1089252
                         NaN
1089253
            EVERGREEN AVENUE
1089254
                    5 AVENUE
1089255
               DAHLIA AVENUE
1089256
           PLAINVIEW AVENUE
1089257
               DITMAS AVENUE
1089258
                          NaN
1089259
                   10 AVENUE
               THAYER STREET
1089260
1089261
                          NaN
               BERGEN AVENUE
1089262
1089263
                         NaN
1089264
                    BROADWAY
Name: cross_street_name, Length: 1089265, dtype: object
In [51]:
brooklyndata.groupby('on_street_name')['number_of_persons_killed'].count()
Out[51]:
on_street_name
                              77
1 AVENUE
                               5
1 COURT
1 PLACE
                              32
                              61
1 STREET
```

334

22

10 AVENUE

177 STREET

10 STREET	63
100 STREET	28
101 STREET	13
104 STREET	1
11 AVENUE	363
11 STREET	71
12 AVENUE	397
12 STREET	82
12 avenue	1
13 AVENUE	725
13 STREET	49
14 AVENUE	675
14 STREET	98
15 AVENUE	457
15 STREET	134
16 AVENUE	486
16 STREET	98
17 AVENUE	381
17 COURT	4
17 STREET	182
18 AVENUE	928
18 STREET	96
18TH AVE	2
19 AVENUE	252
19 LANE	1
WYONA STREET	82
WYTHE AVE	1
WYTHE AVENUE	514
WYTHE PLACE	8
Washington avenue	1
YORK STREET	65
bqe	1
chauncey street	1
dekalb avenue	1
elton street	1
hamilton avenue	1
linden boulevard	1
malcolm x blvd	1
morris avenue	2
mother gaston blvd	1
old fulton street	1
paulding street	1
pitkin avenue	4
remsen avenue	1
rockaway ave	1
saint johns place	1
schroeders avenue	1
skillman street	1
south 5th street	1
south conduit blvd	1
south market street	1
st edwards street	1

```
In [52]:
#vehicle type code1
brooklyndata.groupby('vehicle_type_code1')['number_of_persons_killed'].count()
Out[52]:
vehicle_type_code1
AMBULANCE
                                       588
BICYCLE
                                      1067
BUS
                                      3325
FIRE TRUCK
                                       238
LARGE COM VEH(6 OR MORE TIRES)
                                      2762
                                      1223
LIVERY VEHICLE
MOTORCYCLE
                                      1368
                                      6907
OTHER
PASSENGER VEHICLE
                                    144777
PEDICAB
                                         1
PICK-UP TRUCK
                                      3423
SCOOTER
                                       101
SMALL COM VEH(4 TIRES)
                                      3138
SPORT UTILITY / STATION WAGON
                                     58598
```

1

1

Name: number of persons killed, Length: 1798, dtype: int64

#### In [53]:

TAXI

VAN

UNKNOWN

thomas s boyland street

utica avenue

west 3rd

vehicle\_cause\_of\_accident=drop\_Unspecified\_on\_street.groupby('vehicle\_type\_code1')[

3026

5140

6234

Name: number of persons killed, dtype: int64

#### In [54]:

# vehicle\_cause\_of\_accident

# Out[54]:

vehicle_type_code1 AMBULANCE	561
BICYCLE	845
BUS	3312
FIRE TRUCK	227
LARGE COM VEH(6 OR MORE TIRES)	2730
LIVERY VEHICLE	1221
MOTORCYCLE	1226
OTHER	6730
PASSENGER VEHICLE	130170
PEDICAB	1
PICK-UP TRUCK	3008
SCOOTER	99
SMALL COM VEH(4 TIRES)	2926
SPORT UTILITY / STATION WAGON	53092
TAXI	2733
UNKNOWN	5097
VAN	6080
Name: number_of_persons_injured,	dtype: int64

# In [55]:

accident\_cause=drop\_Unspecified['vehicle\_type\_code1'].value\_counts()

# In [56]:

# accident\_cause

# Out[56]:

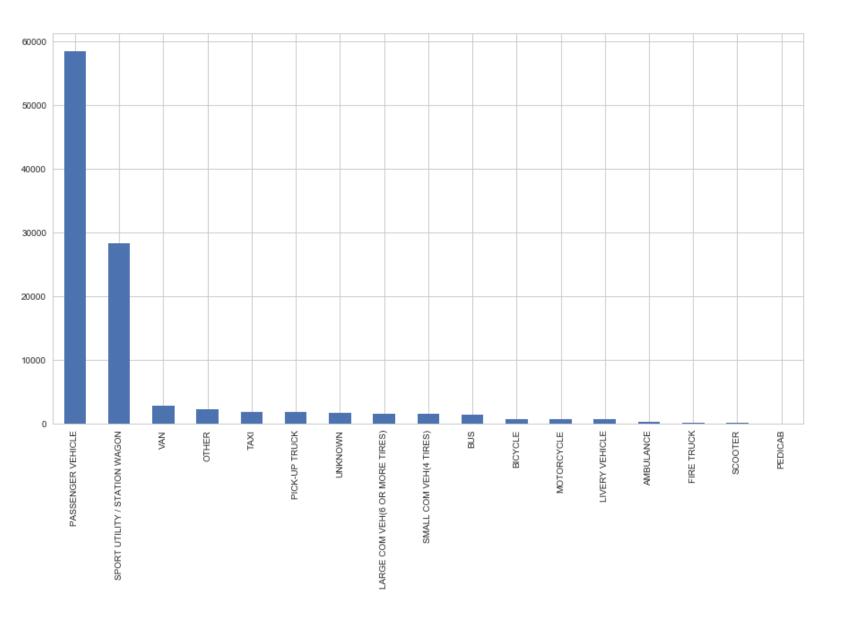
PASSENGER VEHICLE	58350
SPORT UTILITY / STATION WAGON	28248
VAN	2787
OTHER	2243
TAXI	1778
PICK-UP TRUCK	1760
UNKNOWN	1573
LARGE COM VEH(6 OR MORE TIRES)	1527
SMALL COM VEH(4 TIRES)	1474
BUS	1349
BICYCLE	649
MOTORCYCLE	649
LIVERY VEHICLE	583
AMBULANCE	195
FIRE TRUCK	81
SCOOTER	44
PEDICAB	1
<pre>Name: vehicle_type_code1, dtype:</pre>	int64

```
In [57]:
```

accident\_cause.plot(kind='bar')

#### Out[57]:

<matplotlib.axes. subplots.AxesSubplot at 0x11aeb4b38>



#### In [124]:

```
data = pd.read_csv("nypd_mv_collisions", parse_dates=[1], infer_datetime_format=True
temp = pd.DatetimeIndex(data['timestamp'])
data['Date'] = temp.date
data['Time'] = temp.time
data['day']=temp.day
data['year']=temp.year
```

```
Out[125]:
      borough contributing_factor_vehicle_1 contributing_factor_vehicle_2 contributing_factor_vehi
0
                               Unspecified
                                                           Unspecified
          NaN
1
   BROOKLYN
                               Unspecified
                                                           Unspecified
2
          NaN
                  Driver Inattention/Distraction
                                                           Unspecified
3
                               Unspecified
   BROOKLYN
                                                           Unspecified
4
   BROOKLYN
                               Unspecified
                                                                 NaN
5 rows × 32 columns
In [60]:
brooklyndata= data.loc[data['borough']=='BROOKLYN']
```

In [125]:

data.head()

```
In [61]:
brooklyndata
Out[61]:
           borough contributing_factor_vehicle_1 contributing_factor_vehicle_2 contributing_factor_vehicle_3 c
      1
         BROOKLYN
                                  Unspecified
                                                           Unspecified
                                                                                          NaN
      3
                                  Unspecified
                                                           Unspecified
         BROOKLYN
                                                                                          NaN
      4
         BROOKLYN
                                  Unspecified
                                                                 NaN
                                                                                          NaN
      7
                                  Unspecified
         BROOKLYN
                                                                 NaN
                                                                                          NaN
In [325]:
time_occurence=brooklyndata['Time'].value_counts()
In [326]:
top ten time occurence=time occurence[:10]
top ten time occurence
Out[326]:
16:00:00
              3278
15:00:00
              3216
17:00:00
              3098
18:00:00
              2822
14:00:00
              2773
13:00:00
              2658
16:30:00
              2463
12:00:00
              2323
17:30:00
              2318
19:00:00
              2292
Name: Time, dtype: int64
```

```
In [319]:
```

top\_ten\_time\_occurence.mean()

Out[319]:

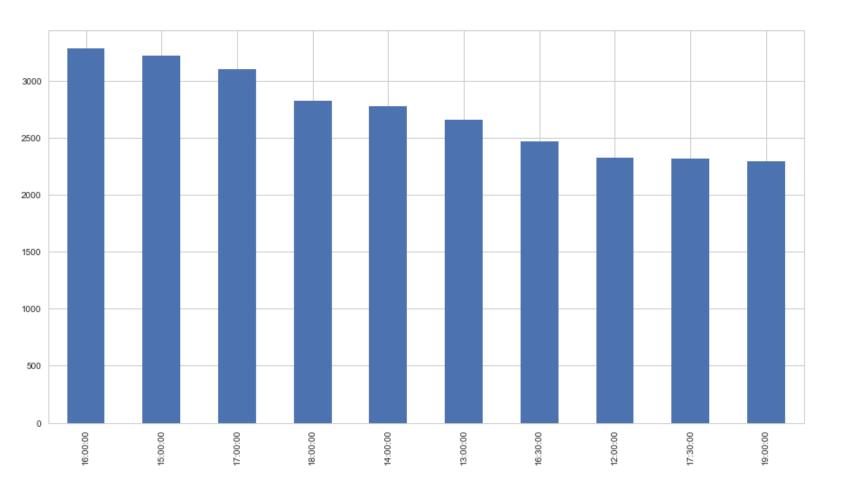
2724.1

# In [65]:

top\_ten\_time\_occurence.plot(kind='bar')

# Out[65]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x118fefcc0>



### In [173]:

day\_occurence=brooklyndata['day'].value\_counts()

```
In [175]:
day occurence[:10]
Out[175]:
3
      8522
1
      8348
      8208
17
19
      8207
7
      8185
21
      8146
18
      8120
2
      8109
13
      8109
9
      8106
Name: day, dtype: int64
In [68]:
injury_alone_bystreet=brooklyndata[['number_of_cyclist_injured','number_of_motorist]
                          'number_of_pedestrians_injured','number_of_persons_injured'
injury alone bystreet.sum()
Out[68]:
number of cyclist injured
                                    7575
number of motorist injured
                                   48008
number_of_pedestrians_injured
                                   16509
number of persons injured
                                   71360
dtype: int64
In [69]:
drop_Unspecified_on_street['on_street_name'].value_counts()
Out[69]:
ATLANTIC AVENUE
                               7264
                               5120
FLATBUSH AVENUE
LINDEN BOULEVARD
                               3358
NOSTRAND AVENUE
                               3298
BEDFORD AVENUE
                               3143
OCEAN PARKWAY
                               3019
EASTERN PARKWAY
                               2964
UTICA AVENUE
                               2864
CONEY ISLAND AVENUE
                               2587
PENNSYLVANIA AVENUE
                               2488
KINGS HIGHWAY
                               2462
4 AVENUE
                               2394
```

FULTON STREET	2374
3 AVENUE	2237
OCEAN AVENUE	2194
BUSHWICK AVENUE	2096
CHURCH AVENUE	1877
86 STREET	1715
RALPH AVENUE	1662
65 STREET	1598
BROADWAY	1576
FLATLANDS AVENUE	1465
5 AVENUE	1461
MYRTLE AVENUE	1436
FLUSHING AVENUE	1414
AVENUE U	1407
ROGERS AVENUE	1323
ROCKAWAY PARKWAY	1320
FLATBUSH AVENUE EXTENSION	
AVENUE J	1170
	• • •
DAHL COURT	1
chauncey street	1
Washington avenue	1
JEWELL STREET	1
STILLWELLS PLACE	1
SKIDMORE LANE	1
EAST 35 ST	1
WALWORTH ST	1
LEXINTON AVENUE	1
DOSHER STREET	1
KAUFMAN PLACE	1
S.PORTLAND AVE	1
BRIGHTON 4 ROAD	1
OLEAN STREET	1
Ocean avenue	1
BROOKLYN BATTERY TUNNEL	1
ANGELA DRIVE	1
south conduit blvd	1
OLD MILL ROAD	1
MARTIN L KING PLACE	1
south 5th street	1
ALTON PLACE	1
VERNON AV	1
W 3rd St	1
LOVE LANE	1
Nostrand avenue	1
WOGAN TERRACE	1
3 avenue	1
GATES AVE	1
BERRY ST	1
Name: on street name, Length:	_
_= = = = = , = = = = ;	,

Name: on\_street\_name, Length: 1798, dtype: int64

#### In [70]:

#### Out[70]:

	number_of_cyclist_injured	number_of_motorist_injured	number_of_pedestrians_injured	number_of_perso
1	0	0	0	
3	0	0	0	
4	0	4	0	
7	0	0	1	
9	0	0	0	
11	0	0	0	
14	0	0	0	

# In [71]:

dat=injury\_alone\_bystreet['on\_street\_name'].value\_counts()
dat

# Out[71]:

ATLANTIC AVENUE	7264
FLATBUSH AVENUE	5120
LINDEN BOULEVARD	3358
NOSTRAND AVENUE	3298
BEDFORD AVENUE	3143
OCEAN PARKWAY	3019
EASTERN PARKWAY	2964
UTICA AVENUE	2864
CONEY ISLAND AVENUE	2587
PENNSYLVANIA AVENUE	2488
KINGS HIGHWAY	2462
4 AVENUE	2394
FULTON STREET	2374
3 AVENUE	2237
OCEAN AVENUE	2194
BUSHWICK AVENUE	2096
CHURCH AVENUE	1877
86 STREET	1715
RALPH AVENUE	1662
65 STREET	1598

BROADWAY	157	6
FLATLANDS AVENUE	146	5
5 AVENUE	146	1
MYRTLE AVENUE	143	6
FLUSHING AVENUE	141	4
AVENUE U	140	7
ROGERS AVENUE	132	3
ROCKAWAY PARKWAY	132	0
FLATBUSH AVENUE EXTENSI	ON 130	8
AVENUE J	117	0
	• • •	
DAHL COURT		1
chauncey street		1
Washington avenue		1
JEWELL STREET		1
STILLWELLS PLACE		1
SKIDMORE LANE		1
EAST 35 ST		1
WALWORTH ST		1
LEXINTON AVENUE		1
DOSHER STREET		1
KAUFMAN PLACE		1
S.PORTLAND AVE		1
BRIGHTON 4 ROAD		1
OLEAN STREET		1
Ocean avenue		1
BROOKLYN BATTERY TUNNEI	ı	1
ANGELA DRIVE		1
south conduit blvd		1
OLD MILL ROAD		1
MARTIN L KING PLACE		1
south 5th street		1
ALTON PLACE		1
VERNON AV		1
W 3rd St		1
LOVE LANE		1
Nostrand avenue		1
WOGAN TERRACE		1
3 avenue		1
GATES AVE		1
BERRY ST		1
Name: on_street_name, I	ength: 17	98, dtype: int64

# In [72]:

# Out[72]:

ATTANTIC AVENUE 7264

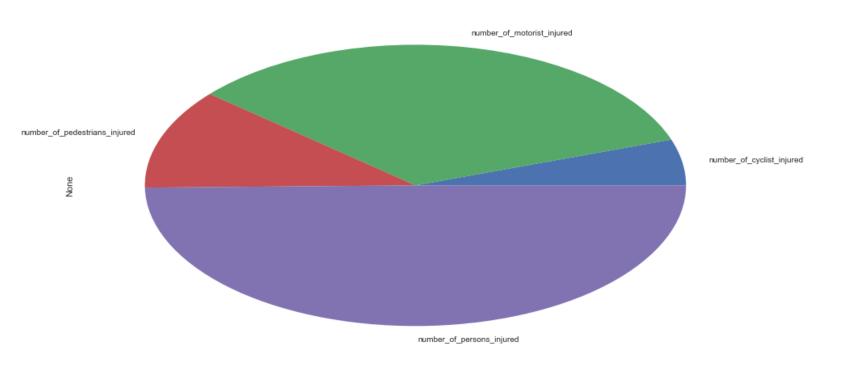
FLATBUSH AVENUE   3120	111111111110 1111111101	, 201
NOSTRAND AVENUE         3298           BEDFORD AVENUE         3143           OCEAN PARKWAY         3019           EASTERN PARKWAY         2964           UTICA AVENUE         2864           CONEY ISLAND AVENUE         2587           PENNSYLVANIA AVENUE         2488           KINGS HIGHWAY         2462           4 AVENUE         2394           FULTON STREET         2374           3 AVENUE         2237           OCEAN AVENUE         2096           CHURCH AVENUE         2096           CHURCH AVENUE         1877           86 STREET         1715           RALPH AVENUE         1662           65 STREET         1598           BROADWAY         1576           FLATLANDS AVENUE         1465           5 AVENUE         1465           5 AVENUE         1446           MYRTLE AVENUE         1447           AVENUE U         1407           ROGERS AVENUE         1323           ROCKAWAY PARKWAY         1320           FLATBUSH AVENUE EXTENSION         1308           AVENUE J         1           USALIDATION OF THE TOWN         1           SKIDMORE LANE<	FLATBUSH AVENUE	5120
NOSTRAND AVENUE         3298           BEDFORD AVENUE         3143           OCEAN PARKWAY         3019           EASTERN PARKWAY         2964           UTICA AVENUE         2864           CONEY ISLAND AVENUE         2587           PENNSYLVANIA AVENUE         2488           KINGS HIGHWAY         2462           4 AVENUE         2394           FULTON STREET         2374           3 AVENUE         2237           OCEAN AVENUE         2096           CHURCH AVENUE         2096           CHURCH AVENUE         1877           86 STREET         1715           RALPH AVENUE         1662           65 STREET         1598           BROADWAY         1576           FLATLANDS AVENUE         1465           5 AVENUE         1465           5 AVENUE         1446           MYRTLE AVENUE         1447           AVENUE U         1407           ROGERS AVENUE         1323           ROCKAWAY PARKWAY         1320           FLATBUSH AVENUE EXTENSION         1308           AVENUE J         1           USALIDATION OF THE TOWN         1           SKIDMORE LANE<	LINDEN BOULEVARD	3358
BEDFORD AVENUE       3143         OCEAN PARKWAY       3019         EASTERN PARKWAY       2964         UTICA AVENUE       2864         CONEY ISLAND AVENUE       2587         PENNSYLVANIA AVENUE       2482         KINGS HIGHWAY       2462         4 AVENUE       2394         FULTON STREET       2374         3 AVENUE       2237         OCEAN AVENUE       2096         CHURCH AVENUE       2096         CHURCH AVENUE       1877         86 STREET       1715         RALPH AVENUE       1662         65 STREET       1598         BROADWAY       1576         FLATLANDS AVENUE       1465         5 AVENUE       1465         MYRTLE AVENUE       1436         FLUSHING AVENUE       1414         AVENUE U       1407         ROGERS AVENUE       1323         ROCKAWAY PARKWAY       1320         FLATBUSH AVENUE EXTENSION       1308         AVENUE J       1170         DAHL COURT       1         chauncey street       1         Washington avenue       1         JEWELL STREET       1		
OCEAN PARKWAY 2964 UTICA AVENUE 2864 CONEY ISLAND AVENUE 2587 PENNSYLVANIA AVENUE 2488 KINGS HIGHWAY 2462 4 AVENUE 2374 3 AVENUE 2237 OCEAN AVENUE 2194 BUSHWICK AVENUE 2096 CHURCH AVENUE 1877 86 STREET 1715 RALPH AVENUE 1662 65 STREET 1598 BROADWAY 1576 FLATLANDS AVENUE 1465 5 AVENUE 1466 MYRTLE AVENUE 1446 MYRTLE AVENUE 1446 MYRTLE AVENUE 1446 FLUSHING AVENUE 1446 FLUSHING AVENUE 1447 AVENUE 1440 ROGERS AVENUE 1323 ROCKAWAY PARKWAY 1320 FLATBUSH AVENUE EXTENSION 1308 AVENUE J 1170  DAHL COURT 1 Chauncey street 1 Washington avenue 1 JEWELL STREET 1 STILLWELLS PLACE 1 SKIDMORE LANE 1 EAST 35 ST 1 WALWORTH ST 1 LEXINTON AVENUE 1 DOSHER STREET 1 KAUFMAN PLACE 1 S.PORTLAND AVE BRIGHTON 4 ROAD 1 OLEAN STREET 1 SOUTH COOLURT 1 SPORTLAND AVE BRIGHTON 4 ROAD 1 OLEAN STREET 1 SPORTLAND AVE BRIGHTON 4 ROAD 1 OLEAN STREET 1 SOUTH COOLURT 1 SAUTHWALL STREET 1 STILLWELLS PLACE 1 SKIDMORE LANE 1 EAST 35 ST 1 WALWORTH ST 1 LEXINTON AVENUE 1 DOSHER STREET 1 SOUTH AROAD 1 OLEAN STREET 1 SOUTH CONDUIT 1 SOUTH STREET 1 SOUTH CONDUIT 1 SOUTH STREET 1 STLEET 1		
EASTERN PARKWAY  UTICA AVENUE  CONEY ISLAND AVENUE  PENNSYLVANIA AVENUE  4 AVENUE  4 AVENUE  5 AVENUE  COCEAN AVENUE  BUSHWICK AVENUE  65 STREET  FALPH AVENUE  5 AVENUE  1465  5 AVENUE  1466  MYRTLE AVENUE  FLATLANDS AVENUE  FLATLANDS AVENUE  FLASHUB AVENUE  FLASHUB AVENUE  FLASHUB AVENUE  1466  MYRTLE AVENUE  FLASHUB AVENUE  FLASHUB AVENUE  FLASHUB AVENUE  FLUSHING AVENUE  FLUSHING AVENUE  FLUSHING AVENUE  FLUSHING AVENUE  FLASHUB AVENUE  TLEXINTON  BROOKLYN BATTEST  COCEAN AVENUE  BROOKLYN BATTERY TUNNEL  ANGELA DRIVE  SOUTH SOUTH  COLD MILL ROAD  MARTIN L KING PLACE  1  SOUTH STREET  1  SOUTH STREET  1  AUGUB AVENUE  1  ANGELA DRIVE  SOUTH STREET  1  ALTON PLACE  1		
UTICA AVENUE 2587 PENNSYLVANIA AVENUE 2587 PENNSYLVANIA AVENUE 2488 KINGS HIGHWAY 2462 4 AVENUE 2394 FULTON STREET 2374 3 AVENUE 2237 OCEAN AVENUE 2194 BUSHWICK AVENUE 2096 CHURCH AVENUE 1877 86 STREET 1715 RALPH AVENUE 1662 65 STREET 1598 BROADWAY 1576 FLATLANDS AVENUE 1465 5 AVENUE 1461 MYRTLE AVENUE 1436 FLUSHING AVENUE 14407 ROGERS AVENUE 1414 AVENUE U 1407 ROGERS AVENUE 1323 ROCKAWAY PARKWAY 1320 FLATBUSH AVENUE EXTENSION 1308 AVENUE J 1170  DAHL COURT 1 Chauncey street 1 Washington avenue 1 JEWELL STREET 1 STILLWELLS PLACE 1 SKIDMORE LANE 1 EAST 35 ST 1 WALWORTH ST 1 LEXINTON AVENUE 1 DOSHER STREET 1 KAUFMAN PLACE 1 S.PORTLAND AVE BRIGHTON 4 ROAD 1 OLEAN STREET 1 COCCAN AVENUE 1 BRIGHTON 4 ROAD 1 OLEAN STREET 1 COCCAN AVENUE 1 BRIGHTON 4 ROAD 1 OLEAN STREET 1 COCCAN AVENUE 1 BROOKLYN BATTERY TUNNEL 1 ANGELA DRIVE 1 SOUTH 5th street 1 SOUTH 5th street 1 ALTON PLACE 1 SOUTH 5th street 1 ALTON PLACE 1	• •	
CONEY ISLAND AVENUE	EASTERN PARKWAY	
PENNSYLVANIA AVENUE       2488         KINGS HIGHWAY       2462         4 AVENUE       2394         FULTON STREET       2374         3 AVENUE       2237         OCEAN AVENUE       2194         BUSHWICK AVENUE       2096         CHURCH AVENUE       1877         86 STREET       1715         RALPH AVENUE       1662         65 STREET       1598         BROADWAY       1576         FLATLANDS AVENUE       1465         5 AVENUE       14461         MYRTLE AVENUE       14461         MYRTLE AVENUE       14407         ROGERS AVENUE       1323         ROCKAWAY PARKWAY       1320         FLATBUSH AVENUE EXTENSION       1308         AVENUE J       1170         DAHL COURT       1         chauncey street       1         Washington avenue       1         JEWELL STREET       1         SKIDMORE LANE       1         EAST 35 ST       1         WALWORTH ST       1         LEXINTON AVENUE       1         S.PORTLAND AVE       1         BRIGHTON 4 ROAD       1         OCEAN ST	UTICA AVENUE	2864
KINGS HIGHWAY 2462 4 AVENUE 2394 FULTON STREET 2374 3 AVENUE 2237 OCEAN AVENUE 2194 BUSHWICK AVENUE 2096 CHURCH AVENUE 1877 86 STREET 1715 RALPH AVENUE 1662 65 STREET 1598 BROADWAY 1576 FLATLANDS AVENUE 1465 5 AVENUE 1461 MYRTLE AVENUE 1436 FLUSHING AVENUE 1440 AVENUE U 1407 ROGERS AVENUE 1323 ROCKAWAY PARKWAY 1320 FLATBUSH AVENUE EXTENSION 1308 AVENUE J 1170  DAHL COURT 1 chauncey street 1 Washington avenue 1 JEWELL STREET 1 STILLWELLS PLACE 1 SKIDMORE LANE 1 EAST 35 ST 1 WALWORTH ST 1 LEXINTON AVENUE 1 DOSHER STREET 1 SPORTLAND AVE 1 BRIGHTON 4 ROAD 1 BRIGHTON 4 ROAD 1 BRIGHTON 4 ROAD 1 BRIGHTON 4 ROAD 1 CLEAN STREET 1 CCEAN AVENUE 1 SOUTH COURT 1 SOUTH COLORN 1 BRIGHTON 4 ROAD 1 BRIGHTON 4 ROAD 1 DOLEAN STREET 1 COCEAN AVENUE 1 SOUTH COLORN 1 SOUTH COLORN 1 BRIGHTON 4 ROAD 1 DOLEAN STREET 1 COCEAN AVENUE 1 SOUTH COLORN 1 BRIGHTON 4 ROAD 1 DAMATIN L KING PLACE 1 SOUTH STREET 1 SOUTH STREET 1 SOUTH STREET 1 SOUTH STREET 1 SOUTH CONDUIT 1 SOUTH STREET 1 COCEAN AVENUE 1 SOUTH CONDUIT 1 SOUTH CONDUIT 1 SOUTH STREET 1 COCEAN AVENUE 1 SOUTH STREET 1 COCEAN AVENUE 1 SOUTH CONDUIT 1 SOUTH STREET 1 COCEAN STREET 1 COCEAN AVENUE 1 SOUTH STREET 1 COCEAN STR	CONEY ISLAND AVENUE	2587
## AVENUE	PENNSYLVANIA AVENUE	2488
FULTON STREET       2374         3 AVENUE       2237         OCEAN AVENUE       2194         BUSHWICK AVENUE       2096         CHURCH AVENUE       1877         86 STREET       1715         RALPH AVENUE       1662         65 STREET       1598         BROADWAY       1576         FLATLANDS AVENUE       1465         5 AVENUE       1436         FLUSHING AVENUE       1414         AVENUE U       1407         ROGERS AVENUE       1323         ROCKAWAY PARKWAY       1320         FLATBUSH AVENUE EXTENSION       1308         AVENUE J       1170         DAHL COURT       1         Chauncey street       1         Washington avenue       1         JEWELL STREET       1         SKIDMORE LANE       1         EAST 35 ST       1         WALWORTH ST       1         LEXINTON AVENUE       1         DOSHER STREET       1         KAUFMAN PLACE       1         S. PORTLAND AVE       1         BRIGHTON 4 ROAD       1         OLEAN STREET       1         Ocean avenue	KINGS HIGHWAY	2462
3 AVENUE       2237         OCEAN AVENUE       2194         BUSHWICK AVENUE       2096         CHURCH AVENUE       1877         86 STREET       1715         RALPH AVENUE       1662         65 STREET       1598         BROADWAY       1576         FLATLANDS AVENUE       1465         5 AVENUE       1436         FLUSHING AVENUE       1414         AVENUE U       1407         ROGERS AVENUE       1323         ROCKAWAY PARKWAY       1320         FLATBUSH AVENUE EXTENSION       1308         AVENUE J       1170         DAHL COURT       1         chauncey street       1         Washington avenue       1         JEWELL STREET       1         SKIDMORE LANE       1         EAST 35 ST       1         WALWORTH ST       1         LEXINTON AVENUE       1         DOSHER STREET       1         KAUFMAN PLACE       1         S. PORTLAND AVE       1         BRIGHTON 4 ROAD       1         OLEAN STREET       1         Ocean avenue       1         BROOKLYN BATTERY TUNNEL	4 AVENUE	2394
3 AVENUE       2237         OCEAN AVENUE       2194         BUSHWICK AVENUE       2096         CHURCH AVENUE       1877         86 STREET       1715         RALPH AVENUE       1662         65 STREET       1598         BROADWAY       1576         FLATLANDS AVENUE       1465         5 AVENUE       1436         FLUSHING AVENUE       1414         AVENUE U       1407         ROGERS AVENUE       1323         ROCKAWAY PARKWAY       1320         FLATBUSH AVENUE EXTENSION       1308         AVENUE J       1170         DAHL COURT       1         chauncey street       1         Washington avenue       1         JEWELL STREET       1         SKIDMORE LANE       1         EAST 35 ST       1         WALWORTH ST       1         LEXINTON AVENUE       1         DOSHER STREET       1         KAUFMAN PLACE       1         S. PORTLAND AVE       1         BRIGHTON 4 ROAD       1         OLEAN STREET       1         Ocean avenue       1         BROOKLYN BATTERY TUNNEL	FULTON STREET	2374
OCEAN AVENUE       2194         BUSHWICK AVENUE       2096         CHURCH AVENUE       1877         86 STREET       1715         RALPH AVENUE       1662         65 STREET       1598         BROADWAY       1576         FLATLANDS AVENUE       1465         5 AVENUE       1436         FLUSHING AVENUE       1414         AVENUE U       1407         ROGERS AVENUE       1323         ROCKAWAY PARKWAY       1320         FLATBUSH AVENUE EXTENSION       1308         AVENUE J       1170         DAHL COURT       1         chauncey street       1         Washington avenue       1         JEWELL STREET       1         SKIDMORE LANE       1         EAST 35 ST       1         WALWORTH ST       1         LEXINTON AVENUE       1         DOSHER STREET       1         KAUFMAN PLACE       1         S. PORTLAND AVE       1         BRIGHTON 4 ROAD       1         OLEAN STREET       1         Ocean avenue       1         BROOKLYN BATTERY TUNNEL       1         ANGELA DRIVE <td></td> <td></td>		
BUSHWICK AVENUE 2096 CHURCH AVENUE 1877 86 STREET 1715 RALPH AVENUE 1662 65 STREET 1598 BROADWAY 1576 FLATLANDS AVENUE 1465 5 AVENUE 1461 MYRTLE AVENUE 14461 MYRTLE AVENUE 1414 AVENUE U 1407 ROGERS AVENUE 1323 ROCKAWAY PARKWAY 1320 FLATBUSH AVENUE EXTENSION 1308 AVENUE J 1170  DAHL COURT 1 Chauncey street 1 Washington avenue 1 JEWELL STREET 1 STILLWELLS PLACE 1 SKIDMORE LANE 1 EAST 35 ST 1 WALWORTH ST 1 LEXINTON AVENUE 1 DOSHER STREET 1 KAUFMAN PLACE 1 S. PORTLAND AVE 1 BRIGHTON 4 ROAD 1 OLEAN STREET 1 OCEAN AVENUE 1 BROOKLYN BATTERY TUNNEL 1 ANGELA DRIVE 1 SOUTH STREET 1 SOUTH COAD 1 MARTIN L KING PLACE 1 SOUTH STREET 1 STLLWELLS PLACE 1 STREET 1 STLLWELLS PLACE 1 SOUTH STREET 1 STLLWELLS PLACE 1 S		
CHURCH AVENUE 1877 86 STREET 1715 RALPH AVENUE 1662 65 STREET 1598 BROADWAY 1576 FLATLANDS AVENUE 1465 5 AVENUE 1461 MYRTLE AVENUE 1436 FLUSHING AVENUE 1414 AVENUE U 1407 ROGERS AVENUE 1323 ROCKAWAY PARKWAY 1320 FLATBUSH AVENUE EXTENSION 1308 AVENUE J 1170  DAHL COURT 1 Chauncey street 1 Washington avenue 1 JEWELL STREET 1 STILLWELLS PLACE 1 SKIDMORE LANE 1 EAST 35 ST 1 WALWORTH ST 1 LEXINTON AVENUE 1 DOSHER STREET 1 KAUFMAN PLACE 1 S. PORTLAND AVE 1 BRIGHTON 4 ROAD 1 OLEAN STREET 1 OCEAN AVENUE 1 BROOKLYN BATTERY TUNNEL 1 ANGELA DRIVE 1 SOUTH STREET 1 SOUTH STREET 1 SOUTH STREET 1 COLEAN STREET 1 C	• • • • • • • • • • • • • • • • • • • •	_
86 STREET       1715         RALPH AVENUE       1662         65 STREET       1598         BROADWAY       1576         FLATLANDS AVENUE       1465         5 AVENUE       1461         MYRTLE AVENUE       1436         FLUSHING AVENUE       1414         AVENUE U       1407         ROGERS AVENUE       1323         ROCKAWAY PARKWAY       1320         FLATBUSH AVENUE EXTENSION       1308         AVENUE J       1170         DAHL COURT       1         chauncey street       1         Washington avenue       1         JEWELL STREET       1         SKIDMORE LANE       1         EAST 35 ST       1         WALWORTH ST       1         LEXINTON AVENUE       1         DOSHER STREET       1         KAUFMAN PLACE       1         S.PORTLAND AVE       1         BRIGHTON 4 ROAD       1         OLEAN STREET       1         Ocean avenue       1         BROOKLYN BATTERY TUNNEL       1         ANGELA DRIVE       1         South conduit blvd       1         OLD MILL ROAD		
RALPH AVENUE 65 STREET 1598 BROADWAY 1576 FLATLANDS AVENUE 5 AVENUE 1465 5 AVENUE 1461 MYRTLE AVENUE 1436 FLUSHING AVENUE 1414 AVENUE U 1407 ROGERS AVENUE 1323 ROCKAWAY PARKWAY 1320 FLATBUSH AVENUE EXTENSION AVENUE J 1170  DAHL COURT chauncey street Washington avenue JEWELL STREET STILLWELLS PLACE SKIDMORE LANE EAST 35 ST WALWORTH ST LEXINTON AVENUE DOSHER STREET KAUFMAN PLACE S.PORTLAND AVE BRIGHTON 4 ROAD OLEAN STREET OCean avenue BROOKLYN BATTERY TUNNEL ANGELA DRIVE south conduit blvd OLD MILL ROAD MARTIN L KING PLACE 1 south 5th street 1 ALTON PLACE 1 south 5th street 1 ALTON PLACE 1 1 1578 1578 1662 1662 1678 1678 1678 1678 1678 1678 1678 1678		
65 STREET       1598         BROADWAY       1576         FLATLANDS AVENUE       1465         5 AVENUE       1461         MYRTLE AVENUE       1436         FLUSHING AVENUE       1414         AVENUE U       1407         ROGERS AVENUE       1323         ROCKAWAY PARKWAY       1320         FLATBUSH AVENUE EXTENSION       1308         AVENUE J       1170         DAHL COURT       1         chauncey street       1         Washington avenue       1         JEWELL STREET       1         SKIDMORE LANE       1         EAST 35 ST       1         WALWORTH ST       1         LEXINTON AVENUE       1         DOSHER STREET       1         KAUFMAN PLACE       1         S.PORTLAND AVE       1         BRIGHTON 4 ROAD       1         OLEAN STREET       1         Ocean avenue       1         BROOKLYN BATTERY TUNNEL       1         ANGELA DRIVE       1         South conduit blvd       1         OLD MILL ROAD       1         MARTIN L KING PLACE       1         South 5th stree		
BROADWAY  FLATLANDS AVENUE  5 AVENUE  1465  5 AVENUE  1461  MYRTLE AVENUE  FLUSHING AVENUE  AVENUE U  ROGERS AVENUE  ROCKAWAY PARKWAY  FLATBUSH AVENUE EXTENSION  AVENUE J  DAHL COURT  Chauncey street  Washington avenue  JEWELL STREET  STILLWELLS PLACE  SKIDMORE LANE  EAST 35 ST  WALWORTH ST  LEXINTON AVENUE  DOSHER STREET  KAUFMAN PLACE  S.PORTLAND AVE  BRIGHTON 4 ROAD  OLEAN STREET  OCean avenue  BROOKLYN BATTERY TUNNEL  ANGELA DRIVE  SOUTH COAD  MARTIN L KING PLACE  1 465  1465  1465  1461  1406  1407  ROERS AVENUE  1407  1508  1608  1608  1708	RALPH AVENUE	1662
FLATLANDS AVENUE       1465         5 AVENUE       1461         MYRTLE AVENUE       1436         FLUSHING AVENUE       1414         AVENUE U       1407         ROGERS AVENUE       1323         ROCKAWAY PARKWAY       1320         FLATBUSH AVENUE EXTENSION       1308         AVENUE J       1170         DAHL COURT       1         chauncey street       1         Washington avenue       1         JEWELL STREET       1         SKIDMORE LANE       1         EAST 35 ST       1         WALWORTH ST       1         LEXINTON AVENUE       1         DOSHER STREET       1         KAUFMAN PLACE       1         S.PORTLAND AVE       1         BRIGHTON 4 ROAD       1         OLEAN STREET       1         Ocean avenue       1         BROOKLYN BATTERY TUNNEL       1         ANGELA DRIVE       1         south conduit blvd       1         OLD MILL ROAD       1         MARTIN L KING PLACE       1         south 5th street       1         ALTON PLACE       1 <td>65 STREET</td> <td>1598</td>	65 STREET	1598
5 AVENUE       1461         MYRTLE AVENUE       1436         FLUSHING AVENUE       1414         AVENUE U       1407         ROGERS AVENUE       1323         ROCKAWAY PARKWAY       1320         FLATBUSH AVENUE EXTENSION       1308         AVENUE J       1170         LOAHL COURT       1         Chauncey street       1         Washington avenue       1         JEWELL STREET       1         SKIDMORE LANE       1         EAST 35 ST       1         WALWORTH ST       1         LEXINTON AVENUE       1         DOSHER STREET       1         KAUFMAN PLACE       1         S.PORTLAND AVE       1         BRIGHTON 4 ROAD       1         OLEAN STREET       1         Ocean avenue       1         BROOKLYN BATTERY TUNNEL       1         ANGELA DRIVE       1         south conduit blvd       1         OLD MILL ROAD       1         MARTIN L KING PLACE       1         south 5th street       1         ALTON PLACE       1	BROADWAY	1576
MYRTLE AVENUE       1436         FLUSHING AVENUE       1414         AVENUE U       1407         ROGERS AVENUE       1323         ROCKAWAY PARKWAY       1320         FLATBUSH AVENUE EXTENSION       1308         AVENUE J       1170         DAHL COURT       1         chauncey street       1         Washington avenue       1         JEWELL STREET       1         SKIDMORE LANE       1         EAST 35 ST       1         WALWORTH ST       1         LEXINTON AVENUE       1         DOSHER STREET       1         KAUFMAN PLACE       1         S.PORTLAND AVE       1         BRIGHTON 4 ROAD       1         OLEAN STREET       1         Ocean avenue       1         BROOKLYN BATTERY TUNNEL       1         ANGELA DRIVE       1         south conduit blvd       1         OLD MILL ROAD       1         MARTIN L KING PLACE       1         south 5th street       1         ALTON PLACE       1	FLATLANDS AVENUE	1465
FLUSHING AVENUE AVENUE U 1407 ROGERS AVENUE 1323 ROCKAWAY PARKWAY 1320 FLATBUSH AVENUE EXTENSION AVENUE J 1170  DAHL COURT Chauncey street Washington avenue JEWELL STREET STILLWELLS PLACE SKIDMORE LANE EAST 35 ST WALWORTH ST LEXINTON AVENUE DOSHER STREET KAUFMAN PLACE S.PORTLAND AVE BRIGHTON 4 ROAD OLEAN STREET OCean avenue BROOKLYN BATTERY TUNNEL ANGELA DRIVE south conduit blvd OLD MILL ROAD MARTIN L KING PLACE 1 SUMMORE STREET ALTON PLACE 1 SOUTH STREET 1 MARTIN L KING PLACE 1 SOUTH STREET 1 MARTIN L KING PLACE 1 SOUTH STREET 1 MARTIN L KING PLACE 1 SOUTH STREET 1 COLD MILL ROAD MARTIN L KING PLACE 1 SOUTH STREET 1 ALTON PLACE 1	5 AVENUE	1461
AVENUE U 1407 ROGERS AVENUE 1323 ROCKAWAY PARKWAY 1320 FLATBUSH AVENUE EXTENSION 1308 AVENUE J 1170  DAHL COURT 1 Chauncey street 1 Washington avenue 1 JEWELL STREET 1 STILLWELLS PLACE 1 SKIDMORE LANE 1 EAST 35 ST 1 WALWORTH ST 1 LEXINTON AVENUE 1 DOSHER STREET 1 KAUFMAN PLACE 1 S.PORTLAND AVE 1 BRIGHTON 4 ROAD 1 OLEAN STREET 1 OCEAN AVENUE 1 BROOKLYN BATTERY TUNNEL 1 ANGELA DRIVE 1 SOUTH CONDUIT 1 SOUTH CONDUIT 1 MARTIN L KING PLACE 1 SOUTH STREET 1 SOUTH STREET 1 SOUTH SOUTH STREET 1 SOUTH S	MYRTLE AVENUE	1436
AVENUE U 1407 ROGERS AVENUE 1323 ROCKAWAY PARKWAY 1320 FLATBUSH AVENUE EXTENSION 1308 AVENUE J 1170  DAHL COURT 1 Chauncey street 1 Washington avenue 1 JEWELL STREET 1 STILLWELLS PLACE 1 SKIDMORE LANE 1 EAST 35 ST 1 WALWORTH ST 1 LEXINTON AVENUE 1 DOSHER STREET 1 KAUFMAN PLACE 1 S.PORTLAND AVE 1 BRIGHTON 4 ROAD 1 OLEAN STREET 1 OCEAN AVENUE 1 BROOKLYN BATTERY TUNNEL 1 ANGELA DRIVE 1 SOUTH CONDUIT 1 SOUTH CONDUIT 1 MARTIN L KING PLACE 1 SOUTH STREET 1 SOUTH STREET 1 SOUTH SOUTH STREET 1 SOUTH S	FLUSHING AVENUE	1414
ROGERS AVENUE ROCKAWAY PARKWAY ROCKAWAY PARKWAY RIA20 FLATBUSH AVENUE EXTENSION AVENUE J  DAHL COURT Chauncey street Washington avenue JEWELL STREET STILLWELLS PLACE SKIDMORE LANE EAST 35 ST WALWORTH ST LEXINTON AVENUE DOSHER STREET RAUFMAN PLACE S.PORTLAND AVE BRIGHTON 4 ROAD OLEAN STREET COCEAN AVENUE BROOKLYN BATTERY TUNNEL ANGELA DRIVE SOUTH CONDUIT TO THE SOU		
ROCKAWAY PARKWAY  FLATBUSH AVENUE EXTENSION  AVENUE J  DAHL COURT  chauncey street  Washington avenue  JEWELL STREET  STILLWELLS PLACE  SKIDMORE LANE  EAST 35 ST  WALWORTH ST  LEXINTON AVENUE  DOSHER STREET  KAUFMAN PLACE  S.PORTLAND AVE  BRIGHTON 4 ROAD  OLEAN STREET  OCean avenue  BROOKLYN BATTERY TUNNEL  ANGELA DRIVE  South conduit blvd  OLD MILL ROAD  MARTIN L KING PLACE  SOUTH STREET  SOUTH STREET  ALTON PLACE  1  1  1  1  1  1  1  1  1  1  1  1  1		
FLATBUSH AVENUE EXTENSION  AVENUE J  1170  DAHL COURT  chauncey street  Washington avenue  JEWELL STREET  STILLWELLS PLACE  SKIDMORE LANE  EAST 35 ST  WALWORTH ST  LEXINTON AVENUE  DOSHER STREET  KAUFMAN PLACE  S.PORTLAND AVE  BRIGHTON 4 ROAD  OLEAN STREET  Ocean avenue  BROOKLYN BATTERY TUNNEL  ANGELA DRIVE  South conduit blvd  OLD MILL ROAD  MARTIN L KING PLACE  1  110  1170  120  1308  1308  1308  1308  1400  150  160  160  170  170  180  180  180  180  180  18		
AVENUE J  DAHL COURT chauncey street  Washington avenue JEWELL STREET STILLWELLS PLACE SKIDMORE LANE EAST 35 ST  WALWORTH ST LEXINTON AVENUE DOSHER STREET KAUFMAN PLACE S.PORTLAND AVE BRIGHTON 4 ROAD OLEAN STREET Ocean avenue BROOKLYN BATTERY TUNNEL ANGELA DRIVE South conduit blvd OLD MILL ROAD MARTIN L KING PLACE South 5th street ALTON PLACE 1		
DAHL COURT chauncey street  Washington avenue  JEWELL STREET  STILLWELLS PLACE  SKIDMORE LANE  EAST 35 ST  WALWORTH ST  LEXINTON AVENUE  DOSHER STREET  KAUFMAN PLACE  S.PORTLAND AVE  BRIGHTON 4 ROAD  OLEAN STREET  Ocean avenue  BROOKLYN BATTERY TUNNEL  ANGELA DRIVE  South conduit blvd  OLD MILL ROAD  MARTIN L KING PLACE  1  SOUTH STREET  1  ALTON PLACE  1  1  1  1  1  1  1  1  1  1  1  1  1		
DAHL COURT chauncey street  Washington avenue  JEWELL STREET  STILLWELLS PLACE  SKIDMORE LANE  EAST 35 ST  WALWORTH ST  LEXINTON AVENUE  DOSHER STREET  KAUFMAN PLACE  S.PORTLAND AVE  BRIGHTON 4 ROAD  OLEAN STREET  Ocean avenue  BROOKLYN BATTERY TUNNEL  ANGELA DRIVE  South conduit blvd  OLD MILL ROAD  MARTIN L KING PLACE  1  SOUTH STREET  ALTON PLACE  1  1  1  1  1  1  1  1  1  1  1  1  1	AVENUE J	1170
chauncey street  Washington avenue  JEWELL STREET  STILLWELLS PLACE  SKIDMORE LANE  EAST 35 ST  WALWORTH ST  LEXINTON AVENUE  DOSHER STREET  KAUFMAN PLACE  S.PORTLAND AVE  BRIGHTON 4 ROAD  OLEAN STREET  Ocean avenue  BROOKLYN BATTERY TUNNEL  ANGELA DRIVE  south conduit blvd  OLD MILL ROAD  MARTIN L KING PLACE  1  SOUTH STREET  ALTON PLACE  1  1  1  1  1  1  1  1  1  1  1  1  1		
Washington avenue 1 JEWELL STREET 1 STILLWELLS PLACE 1 SKIDMORE LANE 1 EAST 35 ST 1 WALWORTH ST 1 LEXINTON AVENUE 1 DOSHER STREET 1 KAUFMAN PLACE 1 S.PORTLAND AVE 1 BRIGHTON 4 ROAD 1 OLEAN STREET 1 Ocean avenue 1 BROOKLYN BATTERY TUNNEL 1 ANGELA DRIVE 1 south conduit blvd 1 OLD MILL ROAD 1 MARTIN L KING PLACE 1 south 5th street 1 ALTON PLACE 1	DAHL COURT	1
JEWELL STREET 1 STILLWELLS PLACE 1 SKIDMORE LANE 1 EAST 35 ST 1 WALWORTH ST 1 LEXINTON AVENUE 1 DOSHER STREET 1 KAUFMAN PLACE 1 S.PORTLAND AVE 1 BRIGHTON 4 ROAD 1 OLEAN STREET 1 OCEAN STREET 1 ANGELA DRIVE 1 South conduit blvd 1 OLD MILL ROAD 1 MARTIN L KING PLACE 1 South 5th street 1 ALTON PLACE 1	chauncey street	1
STILLWELLS PLACE  SKIDMORE LANE  EAST 35 ST  WALWORTH ST  LEXINTON AVENUE  DOSHER STREET  KAUFMAN PLACE  S.PORTLAND AVE  BRIGHTON 4 ROAD  OLEAN STREET  OCEAN STREET  OCEAN AVENUE  BROOKLYN BATTERY TUNNEL  ANGELA DRIVE  SOUTH CONDUIT BIVE  SOUTH CONDUIT BIVE  SOUTH SOUTH SOUTH  ANGELA DRIVE  SOUTH  ANGELA DRI	Washington avenue	1
SKIDMORE LANE  EAST 35 ST  WALWORTH ST  LEXINTON AVENUE  DOSHER STREET  KAUFMAN PLACE  S.PORTLAND AVE  BRIGHTON 4 ROAD  OLEAN STREET  Ocean avenue  BROOKLYN BATTERY TUNNEL  ANGELA DRIVE  south conduit blvd  OLD MILL ROAD  MARTIN L KING PLACE  1  SUTH STREET  1  ALTON PLACE  1	JEWELL STREET	1
EAST 35 ST 1 WALWORTH ST 1 LEXINTON AVENUE 1 DOSHER STREET 1 KAUFMAN PLACE 1 S.PORTLAND AVE 1 BRIGHTON 4 ROAD 1 OLEAN STREET 1 Ocean avenue 1 BROOKLYN BATTERY TUNNEL 1 ANGELA DRIVE 1 south conduit blvd 1 OLD MILL ROAD 1 MARTIN L KING PLACE 1 south 5th street 1 ALTON PLACE 1	STILLWELLS PLACE	1
EAST 35 ST 1 WALWORTH ST 1 LEXINTON AVENUE 1 DOSHER STREET 1 KAUFMAN PLACE 1 S.PORTLAND AVE 1 BRIGHTON 4 ROAD 1 OLEAN STREET 1 Ocean avenue 1 BROOKLYN BATTERY TUNNEL 1 ANGELA DRIVE 1 south conduit blvd 1 OLD MILL ROAD 1 MARTIN L KING PLACE 1 south 5th street 1 ALTON PLACE 1	SKIDMORE LANE	1
WALWORTH ST LEXINTON AVENUE DOSHER STREET 1 KAUFMAN PLACE 1 S.PORTLAND AVE BRIGHTON 4 ROAD 1 OLEAN STREET 1 Ocean avenue 1 BROOKLYN BATTERY TUNNEL 1 ANGELA DRIVE 1 south conduit blvd 1 OLD MILL ROAD 1 MARTIN L KING PLACE 1 south 5th street 1 ALTON PLACE 1		
LEXINTON AVENUE  DOSHER STREET  KAUFMAN PLACE  S.PORTLAND AVE  BRIGHTON 4 ROAD  OLEAN STREET  Ocean avenue  BROOKLYN BATTERY TUNNEL  ANGELA DRIVE  south conduit blvd  OLD MILL ROAD  MARTIN L KING PLACE  1  SOUTH STREET  1  ALTON PLACE  1		_
DOSHER STREET  KAUFMAN PLACE  S.PORTLAND AVE  BRIGHTON 4 ROAD  OLEAN STREET  Ocean avenue  BROOKLYN BATTERY TUNNEL  ANGELA DRIVE  south conduit blvd  OLD MILL ROAD  MARTIN L KING PLACE  1  South 5th street  ALTON PLACE		
KAUFMAN PLACE  S.PORTLAND AVE  BRIGHTON 4 ROAD  OLEAN STREET  Ocean avenue  BROOKLYN BATTERY TUNNEL  ANGELA DRIVE  south conduit blvd  OLD MILL ROAD  MARTIN L KING PLACE  1  South 5th street  ALTON PLACE  1		
S.PORTLAND AVE  BRIGHTON 4 ROAD  OLEAN STREET  Ocean avenue  BROOKLYN BATTERY TUNNEL  ANGELA DRIVE  south conduit blvd  OLD MILL ROAD  MARTIN L KING PLACE  south 5th street  ALTON PLACE  1		
BRIGHTON 4 ROAD  OLEAN STREET  Ocean avenue  BROOKLYN BATTERY TUNNEL  ANGELA DRIVE  south conduit blvd  OLD MILL ROAD  MARTIN L KING PLACE  south 5th street  ALTON PLACE  1		_
OLEAN STREET 1 Ocean avenue 1 BROOKLYN BATTERY TUNNEL 1 ANGELA DRIVE 1 south conduit blvd 1 OLD MILL ROAD 1 MARTIN L KING PLACE 1 south 5th street 1 ALTON PLACE 1		
Ocean avenue 1 BROOKLYN BATTERY TUNNEL 1 ANGELA DRIVE 1 south conduit blvd 1 OLD MILL ROAD 1 MARTIN L KING PLACE 1 south 5th street 1 ALTON PLACE 1		_
BROOKLYN BATTERY TUNNEL 1 ANGELA DRIVE 1 south conduit blvd 1 OLD MILL ROAD 1 MARTIN L KING PLACE 1 south 5th street 1 ALTON PLACE 1	OLEAN STREET	1
ANGELA DRIVE 1 south conduit blvd 1 OLD MILL ROAD 1 MARTIN L KING PLACE 1 south 5th street 1 ALTON PLACE 1	Ocean avenue	1
south conduit blvd 1 OLD MILL ROAD 1 MARTIN L KING PLACE 1 south 5th street 1 ALTON PLACE 1	BROOKLYN BATTERY TUNNEL	1
OLD MILL ROAD 1 MARTIN L KING PLACE 1 south 5th street 1 ALTON PLACE 1	ANGELA DRIVE	1
MARTIN L KING PLACE 1 south 5th street 1 ALTON PLACE 1	south conduit blvd	1
south 5th street 1 ALTON PLACE 1	OLD MILL ROAD	1
south 5th street1ALTON PLACE1	MARTIN L KING PLACE	1
ALTON PLACE 1		1
1		

```
W 3rd St 1
LOVE LANE 1
Nostrand avenue 1
WOGAN TERRACE 1
3 avenue 1
GATES AVE 1
BERRY ST 1
Name: on_street_name, Length: 1798, dtype: int64
```

### In [73]:

## Out[73]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x1189ad358>



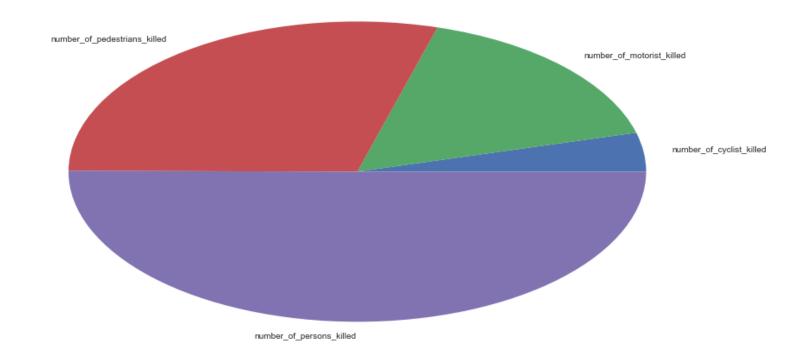
### In [ ]:

## In [ ]:

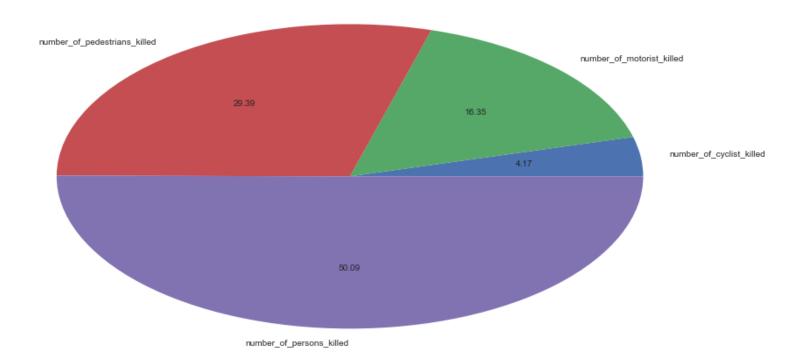
## In [74]:

## Out[74]:

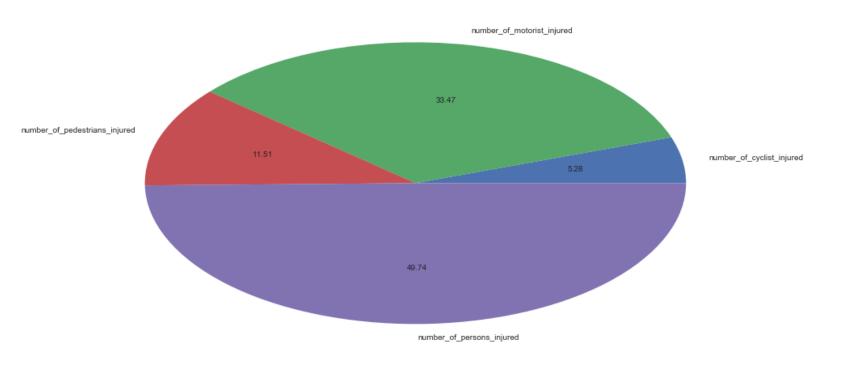
<matplotlib.axes.\_subplots.AxesSubplot at 0x1184bf518>



### In [75]:



### In [76]:



### In [77]:

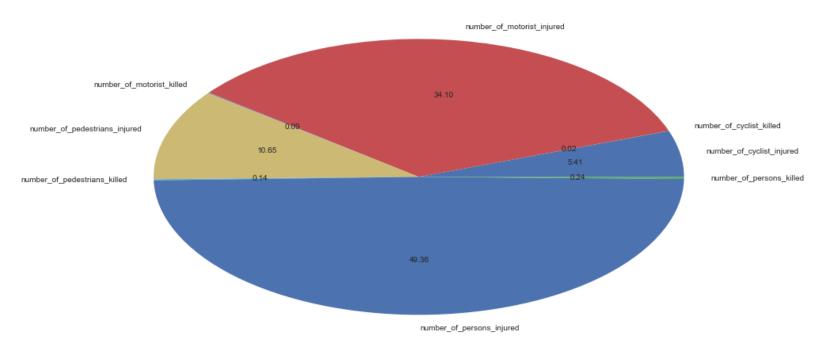
#### In [78]:

```
Injury_and_death.sum()
```

### Out[78]:

```
number of cyclist injured
                                   3549
number of cyclist killed
                                     11
                                  22385
number of motorist injured
number_of_motorist killed
                                     57
number of pedestrians injured
                                   6990
number_of_pedestrians_killed
                                     90
number of persons injured
                                  32403
number of persons killed
                                    159
dtype: int64
```

#### In [79]:



#### In [80]:

drop\_Unspecified\_off\_street=brooklyndata[pd.notnull(brooklyndata['off\_street\_name']

### In [81]:

```
drop_Unspecified_off_street[['off_street_name']]
```

Out[81]:

	off_street_name
14	750 54 STREET
23	230 6 AVE
85	201 EAST 18 STREET
89	1690 EAST 102 STREET
93	766 EAST 80 STREET
293	739 MACDONOUGH STREET
321	4618 8 AVENUE
456	50 VANDALIA AVENUE
492	9901 GLENWOOD ROAD
495	742 WASHINGTON AVENUE
518	294 PARK PLACE
540	2909 WEST 17 STREET
619	241 SUYDAM STREET
639	60 WATER STREET
649	1366 EAST 37 STREET
692	673 EAST 94 STREET
719	486 7TH STREET
721	799 MANHATTAN AVENUE
782	34 SHARON STREET
817	1397 FULTON STREET
946	1502 PITKIN AVENUE
958	1107 GLENMORE AVENUE
970	872 QUINCY STREET
992	4228 10 AVENUE
1075	181 RUSSELL STREET
1121	962 68 STREET
1165	629 WARREN STREET
1372	367 STOCKHOLM STREET
1409	408 ROCKAWAY AVENUE
1433	1080 MC DONALD AVENUE

1088086	492 4th Ave
1088127	273 MONROE STREET
1088269	1547 EAST 52 STREET
1088289	308 AVENUE U
1088349	218 RUTLEDGE STREET
1088358	85 LORIMER STREET
1088384	505 NEPTUNE AVENUE
1088417	330 WILSON AVENUE
1088440	2069 WEST 9 STREET
1088454	8870 17 AVENUE
1088569	2147 68 STREET
1088594	1926 EAST 14 STREET
1088618	242 EAST 89 STREET
1088651	1888 PITKIN AVENUE
1088670	472 17 STREET
1088700	136 PROSPECT PARK WEST
1088706	390 HALSEY STREET
1088747	3920 LAUREL AVENUE
1088756	556 ALABAMA AVENUE
1088758	883 BEDFORD AVENUE
1088804	1139 BUSHWICK AVENUE
1088863	1553 OCEAN AVENUE
1088919	433 LAFAYETTE AVENUE
1088946	170 SOUTH 1 STREET
1088956	196 GREENPOINT AVENUE
1088965	407 MYRTLE AVENUE
1088997	240 CROWN STREET
1089014	172 TILLARY STREET
1089028	1911 CHURCH AVENUE
1089096	14 LAWTON STREET

### In [82]:

```
offstreet_with_highest_accident=drop_Unspecified_off_street['off_street_name'].value
top_ten_streets2 = offstreet_with_highest_accident[:10]
top_ten_streets2.index
```

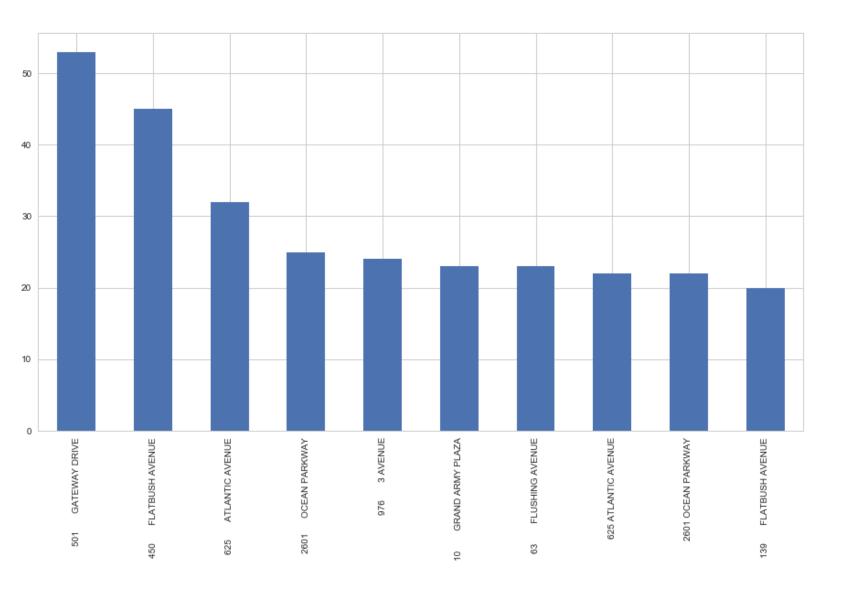
### Out[82]:

### In [83]:

```
top_ten_streets2.plot(kind='bar')
```

### Out[83]:

<matplotlib.axes. subplots.AxesSubplot at 0x119667e10>



```
In [84]:
```

drop\_Unspecified\_cross\_street=brooklyndata[pd.notnull(brooklyndata['cross\_street\_name)]

## In [85]:

drop\_Unspecified\_cross\_street['cross\_street\_name']

# Out[85]:

1089169

1089170

1089171

Out[85]:		
1	UTICA	AVENUE
3	JEFFERSON	AVENUE
4	FOSTER	AVENUE
7	LORING	AVENUE
9	WEST 5	STREET
11	EAST 105	STREET
18	JUNIUS	STREET
31	SCHENECTADY	AVENUE
35	7A	JENUE I
37	LINDEN BOU	JLEVARD
39	FLATBUSH	AVENUE
43	EVERGREEN	AVENUE
45	WILSON	AVENUE
47	NORTH 5	STREET
52	16	AVENUE
54	LINDEN BOU	JLEVARD
60	HENDRIX	STREET
64	FULTON	STREET
66	GERRITSEN	AVENUE
68	CORTELY	OU ROAD
69	6	AVENUE
76	13	AVENUE
83	4	AVENUE
84		E PLACE
86	_	STREET
87	_	AVENUE
104		JENUE I
106		STREET
116	_	AVENUE
119	GRAND	AVENUE
	• • •	
1089145	CRAWFORD	
1089146	EAST 85	
1089147	_	AVENUE
1089154		STREET
1089156	RUSSELL	
1089158		STREET
1089161		5 PLACE
1089162	FRANKLIN	
1089168	VERNON	AVENUE

FLUSHING AVENUE

WOODRUFF AVENUE

EASTERN PARKWAY

```
1089172
               EAST 38 STREET
1089177
               EAST 93 STREET
                CROOKE AVENUE
1089179
                TERRACE PLACE
1089190
1089192
               EAST 10 STREET
1089193
               PACIFIC STREET
1089201
              SHORE BOULEVARD
1089211
                  BLAKE AVENUE
              NEW YORK AVENUE
1089220
1089229
              EAST 105 STREET
1089236
                 UNION STREET
1089238
               EAST 24 STREET
             RIVERDALE AVENUE
1089242
1089243
              NOSTRAND AVENUE
1089246
                LINCOLN PLACE
1089249
                EAST 2 STREET
                DITMAS AVENUE
1089257
1089264
                      BROADWAY
Name: cross_street_name, Length: 220984, dtype: object
In [86]:
```

```
crossstreet_with_highest_accident=drop_Unspecified_cross_street['cross_street_name'
top_ten_streets3 = crossstreet_with_highest_accident[:10]
top_ten_streets3.index
```

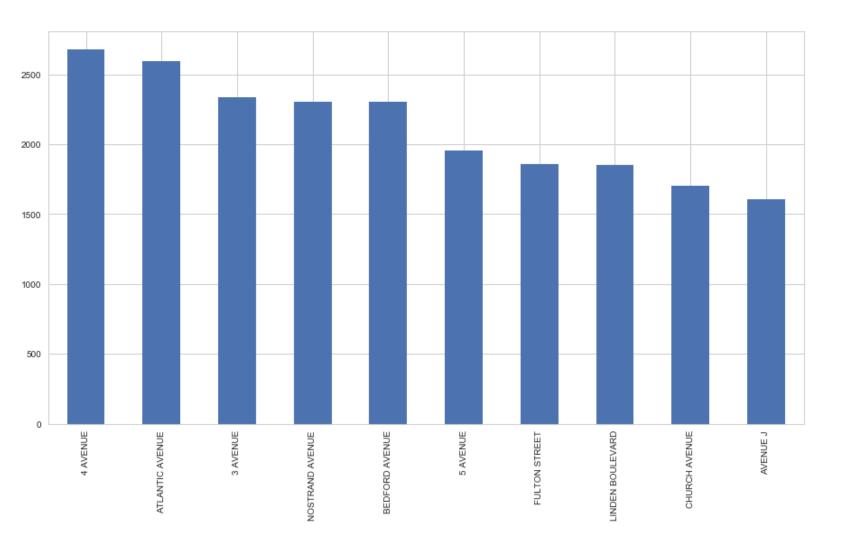
### Out[86]:

## In [180]:

top\_ten\_streets3.plot(kind='bar')

# Out[180]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x12e8c1860>



## In [88]:

## In [89]:

groupdeath=death\_alone\_factor.groupby('contributing\_factor\_vehicle\_1')['contributing\_factor\_vehicle\_1')

```
groupdeath
Out[90]:
contributing factor vehicle 1
                                                         contributing f
actor vehicle 1
Accelerator Defective
                                                         Accelerator De
fective
                                               19
Aggressive Driving/Road Rage
                                                         Aggressive Dri
ving/Road Rage
                                               68
Alcohol Involvement
                                                         Alcohol Involv
                                              196
ement.
                                                         Animals Action
Animals Action
24
Backing Unsafely
                                                         Backing Unsafe
                                             1500
ly
Brakes Defective
                                                         Brakes Defecti
                                               54
ve
Cell Phone (hand-held)
                                                         Cell Phone (ha
                                                7
nd-held)
Cell Phone (hands-free)
                                                         Cell Phone (ha
                                                1
nds-free)
In [91]:
time_contibuting_factor=brooklyndata.groupby('Time')['contributing_factor_vehicle_1
In [147]:
year growth= brooklyndata.groupby('on street name')['number of persons injured'].col
In [148]:
year growth.index
Out[148]:
Index(['1 AVENUE', '1 COURT', '1 PLACE', '1 STREET', '10 AVENUE', '10
STREET',
       '100 STREET', '101 STREET', '104 STREET', '11 AVENUE',
       'saint johns place', 'schroeders avenue', 'skillman street',
       'south 5th street', 'south conduit blvd', 'south market street'
       'st edwards street', 'thomas s boyland street', 'utica avenue',
       'west 3rd'],
      dtype='object', name='on street name', length=1798)
```

In [90]:

In [145]:

# street\_with\_highest\_accident

# Out[145]:

Out[145]:	
ATLANTIC AVENUE	2956
FLATBUSH AVENUE	2123
BEDFORD AVENUE	1410
OCEAN PARKWAY	1404
NOSTRAND AVENUE	1359
CONEY ISLAND AVENUE	1244
3 AVENUE	1181
UTICA AVENUE	1164
4 AVENUE	1099
EASTERN PARKWAY	1073
KINGS HIGHWAY	1073
LINDEN BOULEVARD	1048
OCEAN AVENUE	942
FULTON STREET	932
FLATBUSH AVENUE EXTENSION	881
86 STREET	815
TILLARY STREET	768
BROADWAY	749
65 STREET	749
FLUSHING AVENUE	744
CHURCH AVENUE	724
BUSHWICK AVENUE	716
AVENUE U	700
RALPH AVENUE	643
5 AVENUE	634
PENNSYLVANIA AVENUE	630
METROPOLITAN AVENUE	574
FLATLANDS AVENUE	574
MYRTLE AVENUE	553
ROGERS AVENUE	546
ROGERS TVENCE	•••
SUMNER AVENUE	1
5 ave	1
LANDIS COURT	1
FAIRVIEW PLACE	1
KINGLAND AVENUE	1
THOMAS S BOYLAND STREET	1
MARCUS GARVEY AVENUE	1
south 5th street	1
EVERGREEN AVE	1
FLATBUSH AVE	1
GERALD COURT	1
OLD MILL ROAD	1
W 5th St	1
KRIER PLACE	1
B AVENUE	1
W 3rd St	1
SOUTHGATE COURT	1
JACKSON PLACE	1
BROOKLYN BATTERY TUNNEL	1

```
20 LANE
                                  1
                                  1
DAHLGREEN PLACE
W 9th St
                                  1
                                  1
RIDGEWOOD PLACE
south conduit blvd
                                  1
MC KENNY STREET
                                  1
                                  1
TENEYCK STREET
                                  1
MORTON STREET
                                  1
DEVON AVENUE
SEIGAL STREET
                                  1
                                  1
VANSICLEN AVENUE
Name: on_street_name, Length: 1562, dtype: int64
```

#### In [168]:

```
top_ten_street_df = drop_Unspecified_2.loc[drop_Unspecified_2['on_street_name'].isin
top_ten_street_df.groupby('on_street_name')['number_of_persons_injured'].sum()
```

### Out[168]:

```
on_street_name
3 AVENUE
                        363
                        376
4 AVENUE
ATLANTIC AVENUE
                        827
BEDFORD AVENUE
                        597
CONEY ISLAND AVENUE
                        384
EASTERN PARKWAY
                        442
                        632
FLATBUSH AVENUE
NOSTRAND AVENUE
                        528
                        450
OCEAN PARKWAY
UTICA AVENUE
                        508
```

Name: number\_of\_persons\_injured, dtype: int64

```
top_ten_street_df = drop_Unspecified_2.loc[drop_Unspecified_2['on_street_name'].isin
top ten street df.groupby('on street name')['number of persons killed'].sum()
Out[169]:
on street name
                        4
3 AVENUE
                        3
4 AVENUE
                        7
ATLANTIC AVENUE
BEDFORD AVENUE
                        4
CONEY ISLAND AVENUE
                        2
                        3
EASTERN PARKWAY
                        2
FLATBUSH AVENUE
                        0
NOSTRAND AVENUE
OCEAN PARKWAY
                        6
UTICA AVENUE
                        2
Name: number_of_persons_killed, dtype: int64
In [302]:
data4=brooklyndata.groupby('cross_street_name')['number_of_persons_injured'].value_<
In [303]:
data4[:10]
Out[303]:
                    number_of_persons_injured
cross street name
1 AVENUE
                    0
                                                   156
                    1
                                                    12
                    2
                                                     2
                    3
                                                     1
                                                     1
                    0
1 COURT
1 PLACE
                    0
                                                    31
                    1
                                                     6
                    2
                                                     1
                    0
                                                    87
1 STREET
                                                    16
Name: number of persons injured, dtype: int64
```

cross\_street\_data= brooklyndata[['cross\_street\_name','on\_street\_name','off\_street\_name','off\_street\_name','on\_street\_name','off\_street\_name','off\_street\_name','off\_street\_name','on\_street\_name','off\_street\_name

In [169]:

In [191]:

# In [205]:

cross\_street\_data[:10]

# Out[205]:

	cross_street_name	on_street_name	off_street_name	number_of_persons_injured	number_of_r
1	UTICA AVENUE	EMPIRE BOULEVARD	NaN	0	
3	JEFFERSON AVENUE	WILSON AVENUE	NaN	0	
4	FOSTER AVENUE	EAST 17 STREET	NaN	4	
7	LORING AVENUE	DREW STREET	NaN	1	
9	WEST 5 STREET	NEPTUNE AVENUE	NaN	0	
11	EAST 105 STREET	FLATLANDS 2 STREET	NaN	0	
14	NaN	NaN	750 54 STREET	0	
18	JUNIUS STREET	EAST NEW YORK AVENUE	NaN	0	
23	NaN	NaN	230 6 AVE	0	
31	SCHENECTADY AVENUE	WINTHROP STREET	NaN	0	

# In [300]:

group\_cross\_street=cross\_street\_data.groupby('cross\_street\_name')['number\_of\_persons

# In [304]:

group\_cross\_street[:10]

# Out[304]:

cross_street	_name i	number_of_persons_injured	
1 AVENUE		0	156
		1	12
		2	2
	•	3	1
1 COURT		0	1
1 PLACE		0	31
		1	6
		2	1
1 STREET		0	87
		1	16

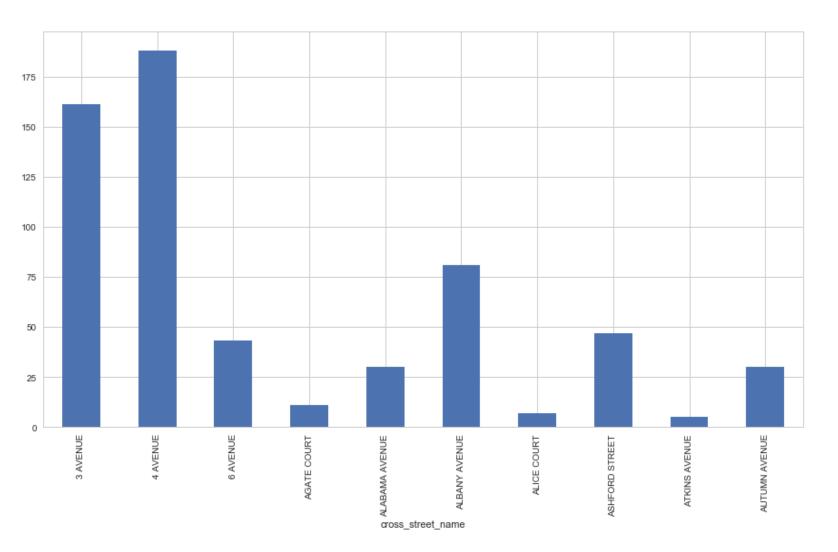
Name: number\_of\_persons\_injured, dtype: int64

### In [313]:

```
#brooklyndata= data.loc[data['borough']=='BROOKLYN']
groupings= cross_street_data.loc[cross_street_data['on_street_name']=='ATLANTIC AVE
grouping1=groupings.groupby('cross_street_name')['cross_street_name'].count()
grouping1[:10].plot(kind='bar')
```

### Out[313]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x11bc05828>



### In [275]:

#top\_ten\_street\_df = drop\_Unspecified\_2.loc[drop\_Unspecified\_2['on\_street\_name'].is sort= sorted(grouping1, reverse=True,)

### In [ ]:

In [ ]:

```
In [ ]:
In [5]:
In [6]:
In [7]:
                                                                                                              In [93]:
Out[93]:
             borough contributing_factor_vehicle_1 contributing_factor_vehicle_2 contributing_fac
       0
                  NaN
                                        Unspecified
                                                                     Unspecified
       1
           BROOKLYN
                                        Unspecified
                                                                     Unspecified
       2
                                                                     Unspecified
                 NaN
                          Driver Inattention/Distraction
       3
                                        Unspecified
           BROOKLYN
                                                                     Unspecified
       4
                                        Unspecified
           BROOKLYN
                                                                           NaN
       5
                  NaN
                                                                     Unspecified
                                  Turning Improperly
```

6	QUEENS	Unspecified	Unspecified	
7	BROOKLYN	Unspecified	NaN	
8	QUEENS	Unspecified	Unspecified	
9	BROOKLYN	Driver Inattention/Distraction	Unspecified	
10	NaN	Driver Inattention/Distraction	NaN	
11	BROOKLYN	Unspecified	Unspecified	
12	QUEENS	Driver Inexperience	Driver Inexperience	Drive
13	STATEN ISLAND	Unspecified	Unspecified	
14	BROOKLYN	Unspecified	NaN	
15	NaN	Lost Consciousness	Unspecified	
16	QUEENS	Unspecified	Unspecified	
17	MANHATTAN	nan	NaN	
18	BROOKLYN	Unspecified	Unspecified	

19	NaN	Unspecified	Unspecified
20	QUEENS	Prescription Medication	Unspecified
21	NaN	Unspecified	NaN
22	QUEENS	Unspecified	Unspecified
23	BROOKLYN	Unspecified	Unspecified
24	MANHATTAN	Failure to Yield Right-of-Way	NaN
25	NaN	Traffic Control Disregarded	NaN
26	NaN	Backing Unsafely	Unspecified
27	NaN	Aggressive Driving/Road Rage	Unspecified
28	MANHATTAN	Driver Inattention/Distraction	Other Vehicular
29	QUEENS	Failure to Yield Right-of-Way	Unspecified
1089235	QUEENS	Prescription Medication	Unspecified
1089236	BROOKLYN	Unspecified	Unspecified

1089237	MANHATTAN	Other Vehicular	Fatigued/Drowsy
1089238	BROOKLYN	Unspecified	Unspecified
1089239	NaN	Backing Unsafely	NaN
1089240	NaN	Prescription Medication	Unspecified
1089241	MANHATTAN	Unspecified	Unspecified
1089242	BROOKLYN	Unspecified	Unspecified
1089243	BROOKLYN	Other Vehicular	Unspecified
1089244	QUEENS	Lost Consciousness	Unspecified
1089245	NaN	Driver Inattention/Distraction	Unspecified
1089246	BROOKLYN	Driver Inattention/Distraction	Unspecified
1089247	MANHATTAN	Outside Car Distraction	Outside Car Distraction
1089248	BRONX	Fatigued/Drowsy	Unspecified
1089249	BROOKLYN	Unspecified	Unspecified
1089250			

	NaN	Prescription Medication	Unspecified	
1089251	NaN	Following Too Closely	Unspecified	
1089252	NaN	Driver Inattention/Distraction	NaN	
1089253	STATEN ISLAND	Failure to Yield Right-of-Way	Unspecified	
1089254	MANHATTAN	Driver Inattention/Distraction	Driver Inattention/Distraction	
1089255	QUEENS	Prescription Medication	Unspecified	
1089256	QUEENS	Oversized Vehicle	NaN	
1089257	BROOKLYN	Unspecified	NaN	
1089258	MANHATTAN	Unspecified	Unspecified	
1089259	MANHATTAN	Driver Inattention/Distraction	NaN	
1089260	MANHATTAN	Unspecified	Unspecified	
1089261	MANHATTAN	Driver Inattention/Distraction	Unspecified	
1089262	BRONX	Unspecified	NaN	
1089263	QUEENS	Pavement Slippery	Unspecified	

3

**BROOKLYN** 

Unspecified

```
1089265 rows × 31 columns
```

```
In [9]:
Out[9]:
Index(['borough', 'contributing_factor_vehicle_1',
       'contributing_factor_vehicle_2', 'contributing_factor_vehicle_3
       'contributing_factor_vehicle_4', 'contributing_factor_vehicle_5
       'cross street name', 'timestamp', 'latitude', 'longitude', 'loc
ation',
       'number_of_cyclist_injured', 'number_of_cyclist_killed',
       'number of motorist injured', 'number of motorist killed',
       'number of pedestrians injured', 'number of pedestrians killed'
       'number of persons injured', 'number of persons killed',
       'off street name', 'on street name', 'unique key', 'vehicle typ
e code1',
       'vehicle type code2', 'vehicle type code 3', 'vehicle type code
_4',
       'vehicle type code 5', 'zip code'],
      dtype='object')
In [10]:
In [11]:
Out[11]:
          borough contributing_factor_vehicle_1 contributing_factor_vehicle_2 contributing_factor
     1
        BROOKLYN
                               Unspecified
                                                      Unspecified
```

Unspecified

4	BROOKLYN	Unspecified	NaN
7	BROOKLYN	Unspecified	NaN
9	BROOKLYN	Driver Inattention/Distraction	Unspecified
11	BROOKLYN	Unspecified	Unspecified
14	BROOKLYN	Unspecified	NaN
18	BROOKLYN	Unspecified	Unspecified
23	BROOKLYN	Unspecified	Unspecified
31	BROOKLYN	Unspecified	Unspecified
35	BROOKLYN	Driver Inattention/Distraction	Unspecified
37	BROOKLYN	Unspecified	Unspecified
39	BROOKLYN	Oversized Vehicle	Unspecified
43	BROOKLYN	Unspecified	Unspecified
45	BROOKLYN	Unspecified	NaN

--

47	BROOKLYN	Driver Inexperience	Unspecified
52	BROOKLYN	Driver Inexperience	Unspecified
54	BROOKLYN	Unspecified	Unspecified
60	BROOKLYN	Unspecified	Unspecified
64	BROOKLYN	Unspecified	NaN
66	BROOKLYN	Following Too Closely	Unspecified
68	BROOKLYN	Unspecified	Unspecified
69	BROOKLYN	Unspecified	Unspecified
76	BROOKLYN	Unspecified	Unspecified
83	BROOKLYN	Prescription Medication	Unspecified
84	BROOKLYN	Fatigued/Drowsy	Unspecified
85	BROOKLYN	Driver Inattention/Distraction	Unspecified
86	BROOKLYN	Failure to Yield Right-of-Way	Unspecified
87	BROOKLYN	Unspecified	Unspecified

_	_
_	

89			
	BROOKLYN	Backing Unsafely	Backing Unsafely
1089145	BROOKLYN	Unspecified	Unspecified
1089146	BROOKLYN	Unspecified	Unspecified
1089147	BROOKLYN	Unspecified	Unspecified
1089154	BROOKLYN	Unspecified	Unspecified
1089156	BROOKLYN	Lost Consciousness	Lost Consciousness
1089158	BROOKLYN	Fatigued/Drowsy	Unspecified
1089161	BROOKLYN	Unspecified	Unspecified
1089162	BROOKLYN	Unspecified	Unspecified
1089168	BROOKLYN	Fatigued/Drowsy	Unspecified
1089169	BROOKLYN	Unspecified	Unspecified
1089170	BROOKLYN	Failure to Yield Right-of-Way	NaN

	BNOOKLIN	Onspecilled	Ivaiv
1089172	BROOKLYN	Prescription Medication	Lost Consciousness
1089177	BROOKLYN	Unspecified	Unspecified
1089179	BROOKLYN	Unspecified	Unspecified
1089190	BROOKLYN	Unspecified	Unspecified
1089192	BROOKLYN	Physical Disability	Physical Disability
1089193	BROOKLYN	Driver Inattention/Distraction	Fatigued/Drowsy
1089201	BROOKLYN	Failure to Yield Right-of-Way	Failure to Yield Right-of-Way
1089211	BROOKLYN	Unspecified	Unspecified
1089220	BROOKLYN	Unspecified	Unspecified
1089229	BROOKLYN	Driver Inattention/Distraction	NaN
1089236	BROOKLYN	Unspecified	Unspecified
1089238	BROOKLYN	Unspecified	Unspecified
1089242	BROOKLYN	Unspecified	Unspecified

#### 1089243

BROOKLYN Other Vehicular Unspecified

1089246

BROOKLYN Driver Inattention/Distraction Unspecified

1089249

BROOKLYN Unspecified Unspecified

1089257

BROOKLYN Unspecified NaN

1089264

BROOKLYN Driver Inattention/Distraction Unspecified

243354 rows × 28 columns

## In [12]:

# Out[12]:

contributing_factor_vehicle_1	
Accelerator Defective	0.436364
Aggressive Driving/Road Rage	0.427793
Alcohol Involvement	0.447368
Animals Action	0.350000
Backing Unsafely	0.113574
Brakes Defective	0.492754
Cell Phone (hand-held)	0.257143
Cell Phone (hands-free)	0.288462
Driver Inattention/Distraction	0.296007
Driver Inexperience	0.269063
Driverless/Runaway Vehicle	0.108696
Drugs (Illegal)	0.447368
Failure to Keep Right	0.345882
Failure to Yield Right-of-Way	0.470703
Fatigued/Drowsy	0.270908
Fell Asleep	0.335878
Following Too Closely	0.322687
Glare	0.612150
Headlights Defective	0.450000
Illness	0.400000
Lane Marking Improper/Inadequate	0.333333

Lost Consciousness	0.133761	
Obstruction/Debris	0.128527	
Other Electronic Device	0.281553	
Other Lighting Defects	0.380952	
Other Vehicular	0.232079	
Outside Car Distraction	0.238994	
Oversized Vehicle	0.065946	
Passenger Distraction	0.722513	
Passing or Lane Usage Improper	0.160116	
Pavement Defective	0.307377	
Pavement Slippery	0.289280	
Pedestrian/Bicyclist/Other Pedestrian Error/Confusion	0.761236	
Physical Disability	0.672323	
Prescription Medication	0.234284	
Reaction to Other Uninvolved Vehicle	0.213604	
Shoulders Defective/Improper	0.250000	
Steering Failure	0.219731	
Tire Failure/Inadequate	0.216667	
Tow Hitch Defective	0.045455	
Traffic Control Device Improper/Non-Working	0.700000	
Traffic Control Disregarded	0.601558	
Turning Improperly	0.175635	
Unsafe Lane Changing	0.195676	
Unsafe Speed	0.547927	
Unspecified	0.279855	
View Obstructed/Limited	0.385855	
Windshield Inadequate	0.000000	
Name: number_of_persons_injured, dtype: float64		
In [13]:		
In [14]:		
In [15]:		
In [15]:		
In [15]:		
<pre>In [15]: Out[15]:</pre>		
Out[15]:		
Out[15]:		
Out[15]:		
Out[15]:		
Out[15]: 280		
Out[15]: 280		
Out[15]: 280		

1277	BROOKLYN	Passenger Distraction	Unspecified	
5785	BROOKLYN	Unspecified	Unspecified	
12354	BROOKLYN	Unspecified	NaN	
16342	BROOKLYN	Traffic Control Disregarded	Unspecified	
20661	BROOKLYN	Unspecified	NaN	
20751	BROOKLYN	Failure to Yield Right-of-Way	NaN	
20905	BROOKLYN	Unspecified	NaN	
30793	BROOKLYN	Traffic Control Disregarded	Unspecified	
32463	BROOKLYN	Traffic Control Disregarded	Unspecified	
39816	BROOKLYN	Driver Inattention/Distraction	NaN	
40496	BROOKLYN	Unspecified	NaN	
41308	BROOKLYN	Unspecified	NaN	
41678	BROOKLYN	View Obstructed/Limited	Driver Inattention/Distraction	
43997				

	BROOKLYN	Unspecified	Unspecified	
46185	BROOKLYN	Driver Inattention/Distraction	NaN	
52432	BROOKLYN	Alcohol Involvement	Unspecified	
60061	BROOKLYN	Unsafe Speed	NaN	
66498	BROOKLYN	Traffic Control Disregarded	NaN	
68099	BROOKLYN	Unspecified	NaN	
68691	BROOKLYN	Unspecified	Unspecified	
73464	BROOKLYN	Failure to Yield Right-of-Way	Driver Inattention/Distraction	
76495	BROOKLYN	Unspecified	NaN	
87633	BROOKLYN	Failure to Yield Right-of-Way	NaN	
100359	BROOKLYN	Unspecified	NaN	
103478	BROOKLYN	Failure to Yield Right-of-Way	NaN	
103635	BROOKLYN	Driver Inattention/Distraction	Unspecified	
106676	BROOKLYN	Physical Disability	Failure to Yield Right-of-Way	
	DI TOOKLIN	1 Trysical Disability	ranaro to riola riigitt-oi-vvay	

108953	BROOKLYN	Driver Inattention/Distraction	Unspecified
116070	BROOKLYN	Unspecified	Unspecified
132684	BROOKLYN	Driver Inattention/Distraction	NaN
968020	BROOKLYN	Failure to Yield Right-of-Way	Traffic Control Disregarded
974227	BROOKLYN	Unspecified	NaN
977311	BROOKLYN	Failure to Yield Right-of-Way	NaN
984338	BROOKLYN	Unspecified	NaN
990488	BROOKLYN	Passenger Distraction	NaN
993911	BROOKLYN	Unspecified	NaN
996703	BROOKLYN	Unspecified	NaN
997408	BROOKLYN	Unspecified	Unspecified
1011006	BROOKLYN	Failure to Yield Right-of-Way	NaN
1016891	BROOKLYN	Driver Inattention/Distraction	Driver Inattention/Distraction

1022625	BROOKLYN	Alcohol Involvement	NaN
1024077	BROOKLYN	Unspecified	Unspecified
1024606	BROOKLYN	Unspecified	Unspecified
1035040	BROOKLYN	Unspecified	NaN
1039909	BROOKLYN	Unspecified	NaN
1041476	BROOKLYN	Unspecified	NaN
1049451	BROOKLYN	Unspecified	NaN
1052587	BROOKLYN	Unspecified	NaN
1059204	BROOKLYN	Unspecified	Unspecified
1067665	BROOKLYN	Driver Inattention/Distraction	NaN
1075190	BROOKLYN	Driver Inexperience	NaN
1075660	BROOKLYN	Failure to Yield Right-of-Way	Unspecified
1077210	BROOKLYN	Driver Inattention/Distraction	NaN

1077312	BROOKLYN	Driver Inattention/Distraction	NaN	
1077398	BROOKLYN	Alcohol Involvement	NaN	
1078110	BROOKLYN	Backing Unsafely	NaN	
1080767	BROOKLYN	Unspecified	Unspecified	
1081730	BROOKLYN	Unspecified	Unspecified	
1084436	BROOKLYN	Traffic Control Disregarded	Unspecified	
1089172	BROOKLYN	Prescription Medication	Lost Consciousness	
280 rowe	v 28 columna	•		

In [17]:

# In [18]:

# Out[18]:

Unspecified	125
Driver Inattention/Distraction	33
Traffic Control Disregarded	32
Failure to Yield Right-of-Way	29
Passenger Distraction	11
Physical Disability	9
Alcohol Involvement	7
Backing Unsafely	7
View Obstructed/Limited	5
Unsafe Speed	5
Prescription Medication	4
Following Too Closely	3
Lost Consciousness	2
Glare	2
Pedestrian/Bicyclist/Other Pedestrian Error/Confusion	1
Driver Inexperience	1
Other Vehicular	1
Passing or Lane Usage Improper	1
<pre>Name: contributing_factor_vehicle_1, dtype: int64</pre>	

# In [19]:

# Out[19]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x1256555f8>



# In [20]:

# In [21]:

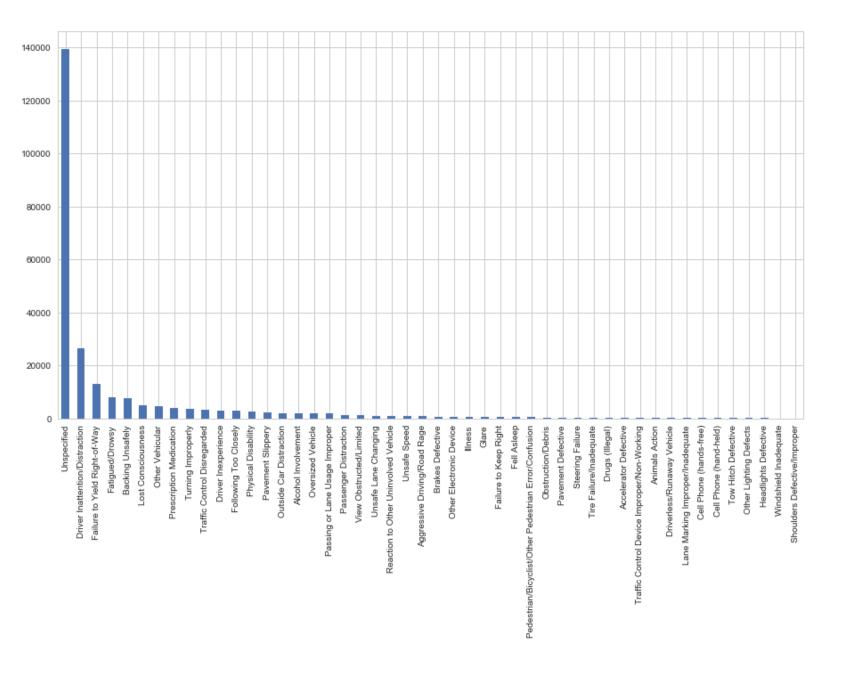
Out[21]:	
Unspecified	139204
Driver Inattention/Distraction	26398
Failure to Yield Right-of-Way	12800
Fatigued/Drowsy	7844
Backing Unsafely	7713
Lost Consciousness	4994
Other Vehicular	4464
Prescription Medication	3786
Turning Improperly	3661
Traffic Control Disregarded	3210
Driver Inexperience	2754
Following Too Closely	2724
Physical Disability	2652
Pavement Slippery	2043
Outside Car Distraction	1908
Alcohol Involvement	1900
Oversized Vehicle	1850
Passing or Lane Usage Improper	1730
Passenger Distraction	1337
View Obstructed/Limited	1117
Unsafe Lane Changing	925
Reaction to Other Uninvolved Vehicle	838
Unsafe Speed	772
Aggressive Driving/Road Rage	734
Brakes Defective	621
Other Electronic Device	515
Illness	480
Glare	428
Failure to Keep Right	425
Fell Asleep	393
Pedestrian/Bicyclist/Other Pedestrian Error/Confusion	356
Obstruction/Debris	319
Pavement Defective	244
Steering Failure	223
Tire Failure/Inadequate	120
Drugs (Illegal)	114
Accelerator Defective	110
Traffic Control Device Improper/Non-Working	100
Animals Action	100
Driverless/Runaway Vehicle	92
Lane Marking Improper/Inadequate	54
Cell Phone (hands-free)	52
Cell Phone (hand-held)	35
Tow Hitch Defective	22

Other Lighting Defects	21
Headlights Defective	20
Windshield Inadequate	14
Shoulders Defective/Improper	4
Name: contributing_factor_vehicle_1, dtype: int64	

In [22]:

### Out[22]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x116531da0>



In [23]:

In [24]:

$\cap$	<b>-</b> +	<b>[2</b>	1 1	
. ,,			4	

	borough	contributing_factor_vehicle_1	contributing_factor_vehicle_2	contributing_
9	BROOKLYN	Driver Inattention/Distraction	Unspecified	
35	BROOKLYN	Driver Inattention/Distraction	Unspecified	
39	BROOKLYN	Oversized Vehicle	Unspecified	
47	BROOKLYN	Driver Inexperience	Unspecified	
52	BROOKLYN	Driver Inexperience	Unspecified	
66	BROOKLYN	Following Too Closely	Unspecified	
83	BROOKLYN	Prescription Medication	Unspecified	
84	BROOKLYN	Fatigued/Drowsy	Unspecified	
85	BROOKLYN	Driver Inattention/Distraction	Unspecified	
86	BROOKLYN	Failure to Yield Right-of-Way	Unspecified	
89	BROOKLYN	Backing Unsafely	Backing Unsafely	
119	BROOKLYN	Other Vehicular	Unspecified	
128	BROOKLYN	Aggressive Driving/Road Rage	NaN	

\_fa

147	BROOKLYN	Driver Inattention/Distraction	Driver Inattention/Distraction
153	BROOKLYN	Fatigued/Drowsy	Unspecified
165	BROOKLYN	Driver Inattention/Distraction	Unspecified
195	BROOKLYN	Alcohol Involvement	Unspecified
201	BROOKLYN	Fatigued/Drowsy	Unspecified
205	BROOKLYN	Driver Inexperience	Unspecified
224	BROOKLYN	Driver Inattention/Distraction	Unspecified
249	BROOKLYN	Traffic Control Disregarded	Unspecified
258	BROOKLYN	Traffic Control Disregarded	Unspecified
259	BROOKLYN	Physical Disability	Unspecified
263	BROOKLYN	Driver Inexperience	Unspecified
288	BROOKLYN	Driver Inattention/Distraction	Unspecified
312	BROOKLYN	Failure to Yield Right-of-Way	Unspecified

<del></del>	BROOKLYN	Fatigued/Drowsy	Fatigued/Drowsy	
326	BROOKLYN	Other Vehicular	NaN	
338	BROOKLYN	Lost Consciousness	Lost Consciousness	
361	BROOKLYN	Fatigued/Drowsy	Unspecified	
	 BROOKLYN	 Other Vehicular	 Other Vehicular	
1088979	BROOKLYN	Driver Inattention/Distraction	Driver Inattention/Distraction	
1088992	BROOKLYN	Other Vehicular	Driver Inattention/Distraction	
1088997	BROOKLYN	Driver Inattention/Distraction	Unspecified	
1089003	BROOKLYN	Lost Consciousness	Unspecified	
1089011	BROOKLYN	Lost Consciousness	Unspecified	
1089014	BROOKLYN	Backing Unsafely	Unspecified	
1089051	BROOKLYN	Driver Inattention/Distraction	Driver Inattention/Distraction	
1089052	BROOKLYN	Physical Disability	Failure to Yield Right-of-Way	

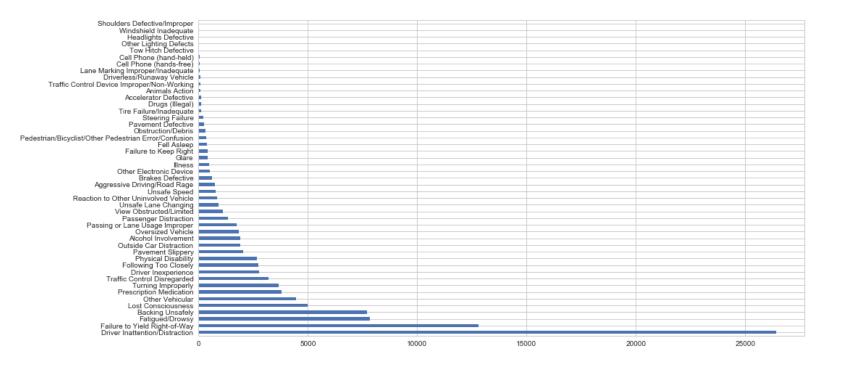
1089063	BROOKLYN	Driver Inattention/Distraction	Unspecified	
1089071	BROOKLYN	Failure to Yield Right-of-Way	Unspecified	
1089073	BROOKLYN	Fatigued/Drowsy	Fatigued/Drowsy	
1089109	BROOKLYN	Other Vehicular	NaN	
1089116	BROOKLYN	Traffic Control Disregarded	Unspecified	
1089126	BROOKLYN	Driver Inattention/Distraction	Unspecified	
1089138	BROOKLYN	Other Vehicular	NaN	
1089140	BROOKLYN	Lost Consciousness	Unspecified	
1089141	BROOKLYN	Failure to Yield Right-of-Way	NaN	
1089156	BROOKLYN	Lost Consciousness	Lost Consciousness	
1089158	BROOKLYN	Fatigued/Drowsy	Unspecified	
1089168	BROOKLYN	Fatigued/Drowsy	Unspecified	
1089170	BROOKLYN	Failure to Yield Right-of-Way	NaN	
1089172				

	BROOKLYN	Prescription Medication	Lost Consciousness	
1089192	BROOKLYN	Physical Disability	Physical Disability	
1089193	BROOKLYN	Driver Inattention/Distraction	Fatigued/Drowsy	
1089201	BROOKLYN	Failure to Yield Right-of-Way	Failure to Yield Right-of-Way	
1089229	BROOKLYN	Driver Inattention/Distraction	NaN	
1089243	BROOKLYN	Other Vehicular	Unspecified	
1089246	BROOKLYN	Driver Inattention/Distraction	Unspecified	
1089264	BROOKLYN	Driver Inattention/Distraction	Unspecified	

### In [25]:

# Out[25]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x116a70c50>



## In [26]:

### Out[26]:

Driver Inattention/Distraction	26398
Failure to Yield Right-of-Way	12800
Fatigued/Drowsy	7844
Backing Unsafely	7713
Lost Consciousness	4994
Other Vehicular	4464
Prescription Medication	3786
Turning Improperly	3661
Traffic Control Disregarded	3210
Driver Inexperience	2754
Following Too Closely	2724
Physical Disability	2652
Pavement Slippery	2043
Outside Car Distraction	1908
Alcohol Involvement	1900
Oversized Vehicle	1850
Passing or Lane Usage Improper	1730
Passenger Distraction	1337
View Obstructed/Limited	1117
Unsafe Lane Changing	925
Reaction to Other Uninvolved Vehicle	838
Unsafe Speed	772
Aggressive Driving/Road Rage	734

Brakes Defective	621
Other Electronic Device	515
Illness	480
Glare	428
Failure to Keep Right	425
Fell Asleep	393
Pedestrian/Bicyclist/Other Pedestrian Error/Confusion	356
Obstruction/Debris	319
Pavement Defective	244
Steering Failure	223
Tire Failure/Inadequate	120
Drugs (Illegal)	114
Accelerator Defective	110
Animals Action	100
Traffic Control Device Improper/Non-Working	100
Driverless/Runaway Vehicle	92
Lane Marking Improper/Inadequate	54
Cell Phone (hands-free)	52
Cell Phone (hand-held)	35
Tow Hitch Defective	22
Other Lighting Defects	21
Headlights Defective	20
Windshield Inadequate	14
Shoulders Defective/Improper	4
Name: contributing_factor_vehicle_1, dtype: int64	

# In [27]:

# In [28]:

# In [29]:

# Out[29]:

1	EMPIRE BOULEVARD
3	WILSON AVENUE
4	EAST 17 STREET
7	DREW STREET
9	NEPTUNE AVENUE
11	FLATLANDS 2 STREET
18	EAST NEW YORK AVENUE
31	WINTHROP STREET
35	EAST 29 STREET
37	PENNSYLVANIA AVENUE
39	STATE STREET
43	WEIRFIELD STREET
45	LINDEN STREET

47	ROEBLING STREET
52	74 STREET
54	PENNSYLVANIA AVENUE
60	LINDEN BOULEVARD
64	VAN SINDEREN AVENUE
66	WHITNEY AVENUE
68	MC DONALD AVENUE
69	ATLANTIC AVENUE
76	50 STREET
83	ATLANTIC AVENUE
84	PARKSIDE AVENUE
86	BAY PARKWAY
87	77 STREET
104	FLATLANDS AVENUE
106	8 AVENUE
116	50 STREET
119	PROSPECT PLACE
	• • •
1089145	CONEY ISLAND AVENUE
1089146	FLATLANDS AVENUE
1089147	EASTERN PARKWAY
1089154	HOYT STREET
1089156	GREENPOINT AVENUE
1089158	3 AVENUE
1089161	HERKIMER STREET
1089162	EASTERN PARKWAY
1089168	THROOP AVENUE
1089169	WASHINGTON AVENUE
1089170	OCEAN AVENUE
1089171	NOSTRAND AVENUE
1089172	CLARKSON AVENUE
1089177	KINGS HIGHWAY
1089179	PARADE PLACE
1089190	PROSPECT PARK SOUTHWEST
1089192	AVENUE P
1089193	SMITH STREET
1089201	EMMONS AVENUE
1089211	PENNSYLVANIA AVENUE
1089220	LENOX ROAD
1089229	FARRAGUT ROAD
1089236	4 AVENUE
1089238	QUENTIN ROAD
1089242	LEGION STREET
1089243	SAINT JOHNS PLACE
1089246	RALPH AVENUE
1089249	CATON AVENUE
1089257	EAST 3 STREET
1089264	ROCKAWAY AVENUE
Name: on	street name, Length: 220984, dtvpe

Name: on\_street\_name, Length: 220984, dtype: object

```
Out[30]:
Index(['ATLANTIC AVENUE', 'FLATBUSH AVENUE', 'BEDFORD AVENUE', 'OCEAN
PARKWAY',
       'NOSTRAND AVENUE', 'CONEY ISLAND AVENUE', '3 AVENUE', 'UTICA AV
ENUE',
       '4 AVENUE', 'EASTERN PARKWAY'],
      dtype='object')
In [177]:
Out[177]:
<matplotlib.axes. subplots.AxesSubplot at 0x12cf8ea90>
3000
2500
2000
1500
1000
 500
In [32]:
Out[32]:
on street name contributing factor vehicle 1
                 Driver Inattention/Distraction
3 AVENUE
245
                 Failure to Yield Right-of-Way
123
                 Fatigued/Drowsy
113
                 Prescription Medication
98
```

Turning Improperly

In [30]:

82

60	Lost Consciousness
69	Backing Unsafely
62	Physical Disability
60	Other Vehicular
40	Driver Inexperience
34	Traffic Control Disregarded
33	Following Too Closely
24	
23	Oversized Vehicle
21	Pavement Slippery
14	Alcohol Involvement
14	Outside Car Distraction
14	Passing or Lane Usage Improper
13	Unsafe Lane Changing
11	Aggressive Driving/Road Rage
	Obstruction/Debris
10	Traffic Control Device Improper/Non-Working
10	View Obstructed/Limited
10	Failure to Keep Right
8	Passenger Distraction
7	Unsafe Speed
7	Fell Asleep
5	Pavement Defective
4	
4	Reaction to Other Uninvolved Vehicle
3	Brakes Defective
3	Illness
•••	
UTICA AVENUE	Lost Consciousness

62	
62	Turning Improperly
	Traffic Control Disregarded
47	Backing Unsafely
46	Driver Inexperience
34	
29	Physical Disability
28	Alcohol Involvement
	Outside Car Distraction
25	Following Too Closely
24	Passenger Distraction
21	
18	Unsafe Lane Changing
14	Aggressive Driving/Road Rage
	Brakes Defective
11	Pavement Slippery
11	Passing or Lane Usage Improper
10	View Obstructed/Limited
9	
8	Illness
7	Reaction to Other Uninvolved Vehicle
7	Fell Asleep
6	Failure to Keep Right
5	Glare
5	
5	Obstruction/Debris
4	Other Electronic Device
	Unsafe Speed
4	Lane Marking Improper/Inadequate
3	Pedestrian/Bicyclist/Other Pedestrian Error/Confusion
3	
2	Steering Failure

Tire Failure/Inadequate

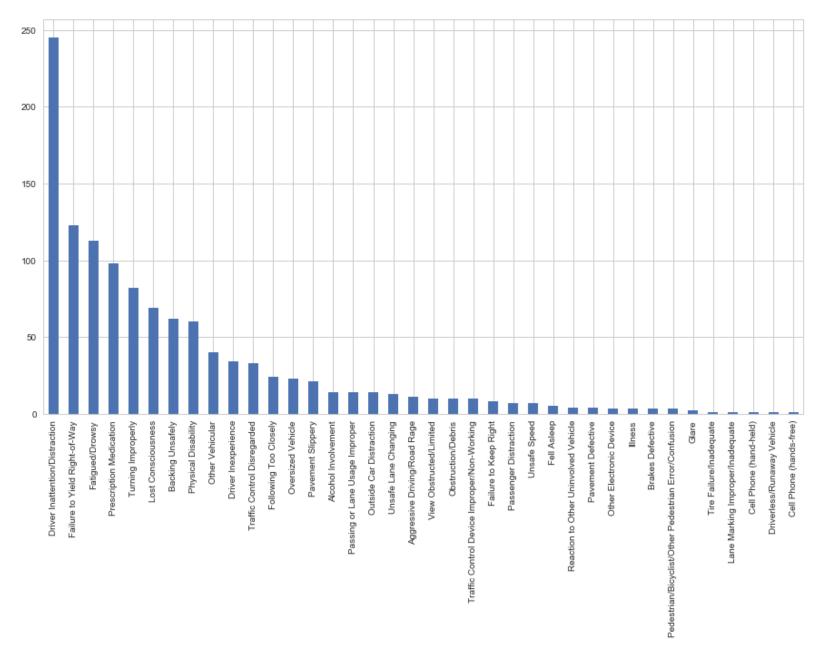
2
Animals Action

1
Oversized Vehicle

1
Name: contributing\_factor\_vehicle\_1, Length: 380, dtype: int64

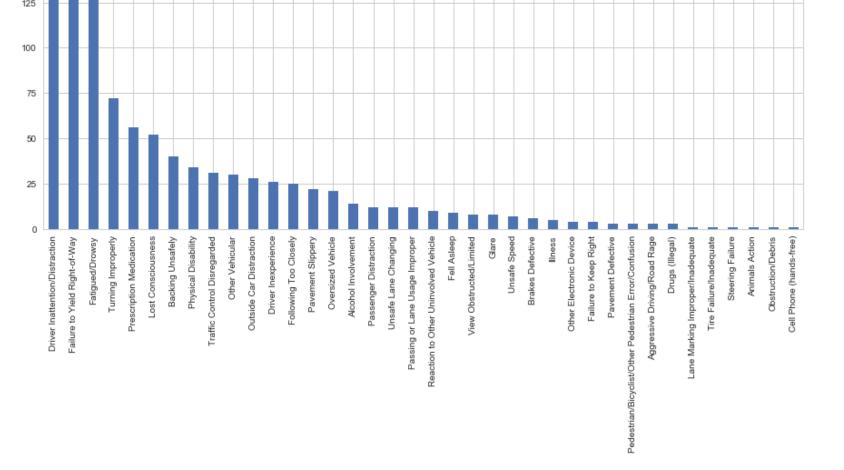
In [33]:

### 3 AVENUE

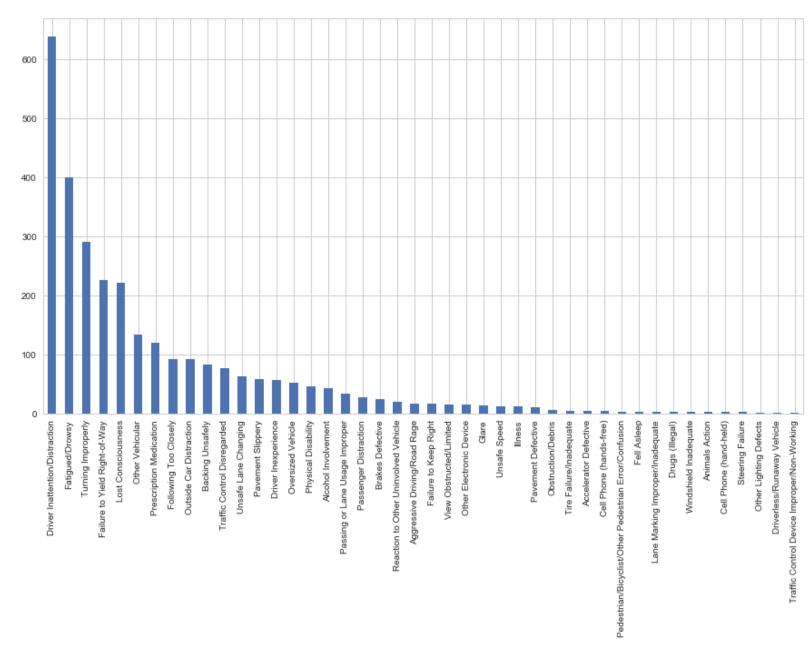


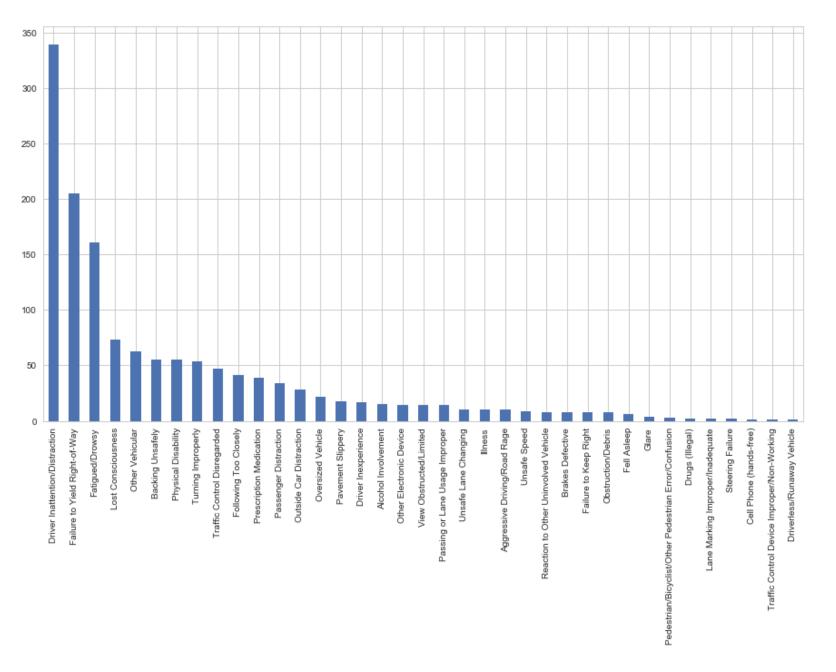
### 4 AVENUE



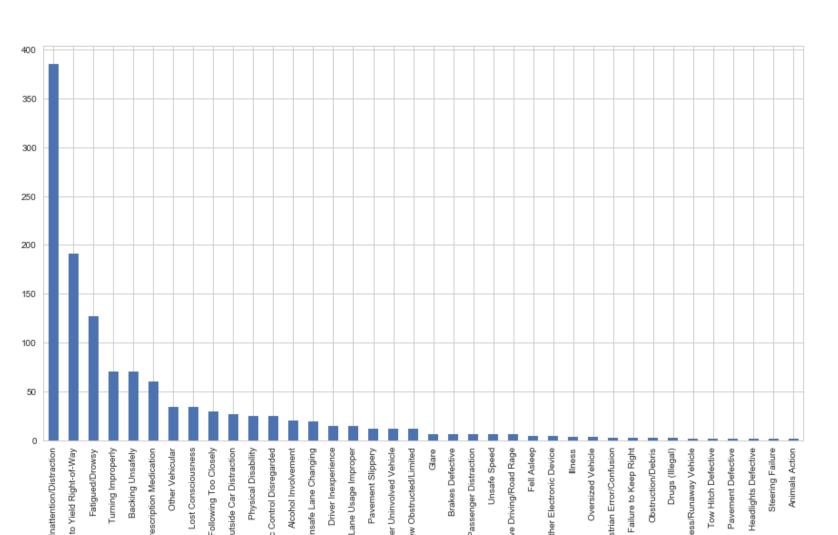


### ATLANTIC AVENUE



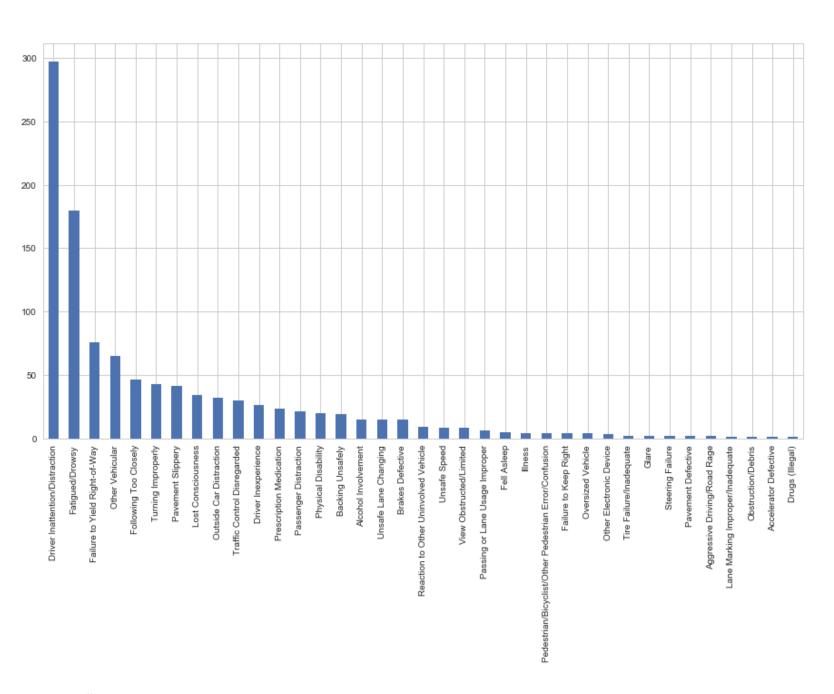


### CONEY ISLAND AVENUE

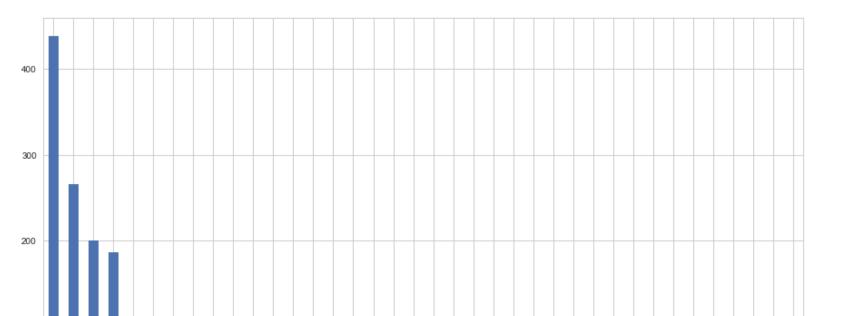


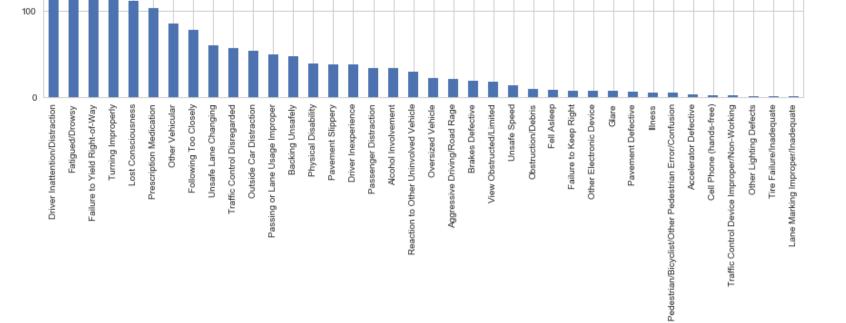
Priure
Failure
O
O
New Management
Ne

### EASTERN PARKWAY

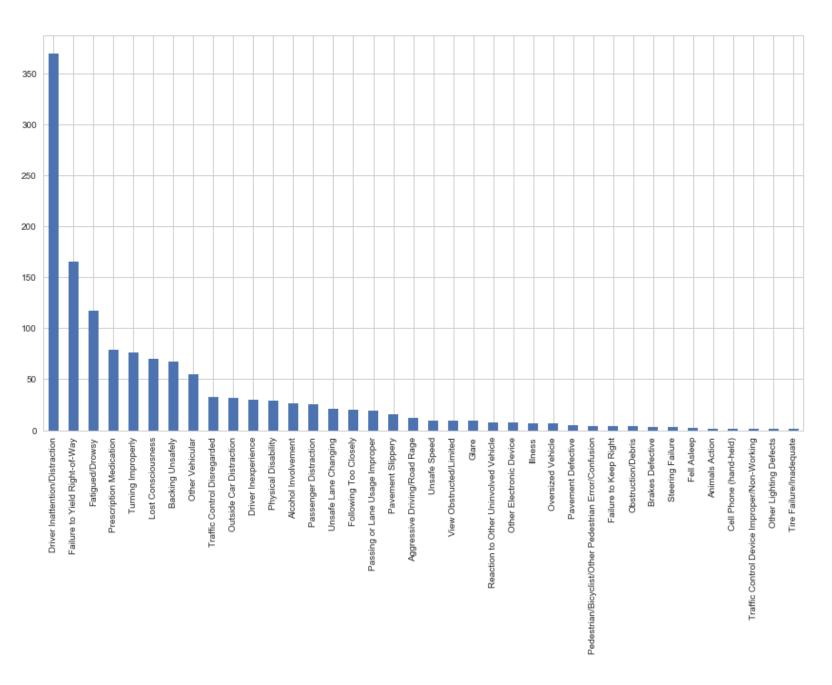


### FLATBUSH AVENUE



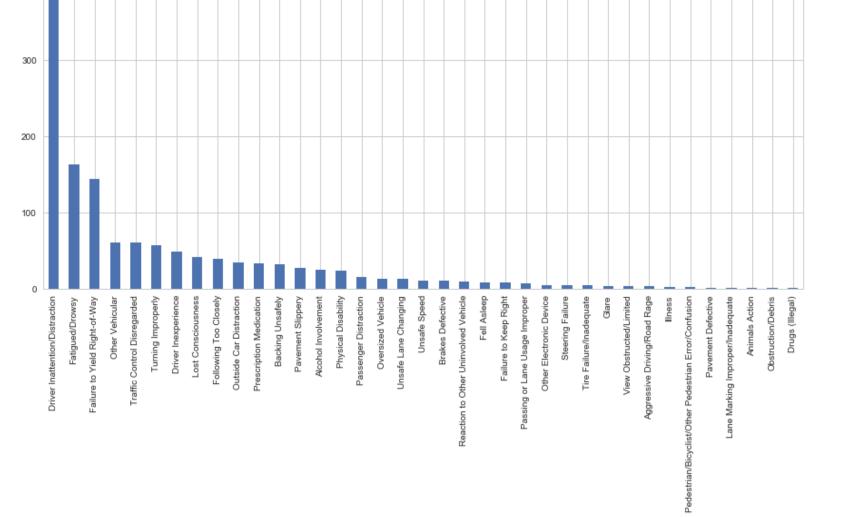


### NOSTRAND AVENUE

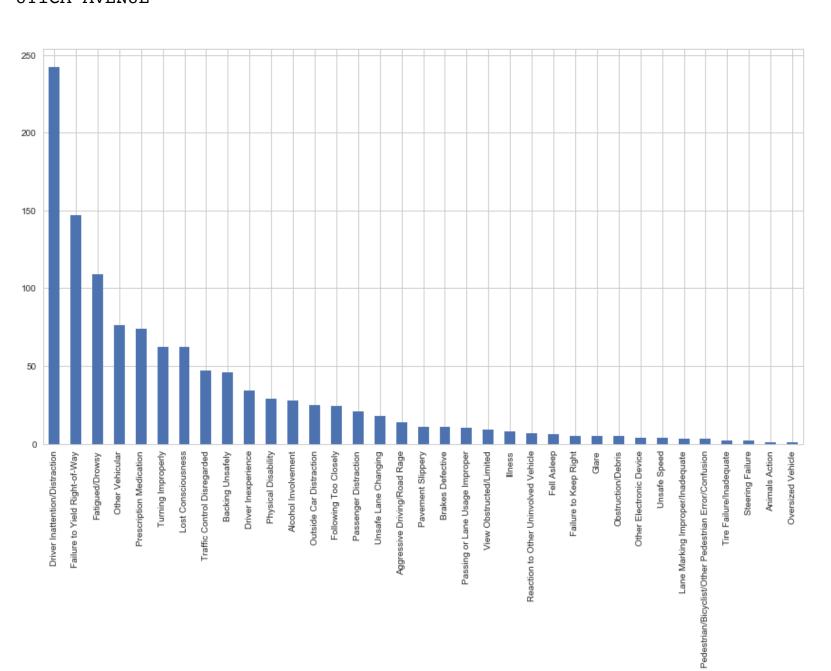


### OCEAN PARKWAY



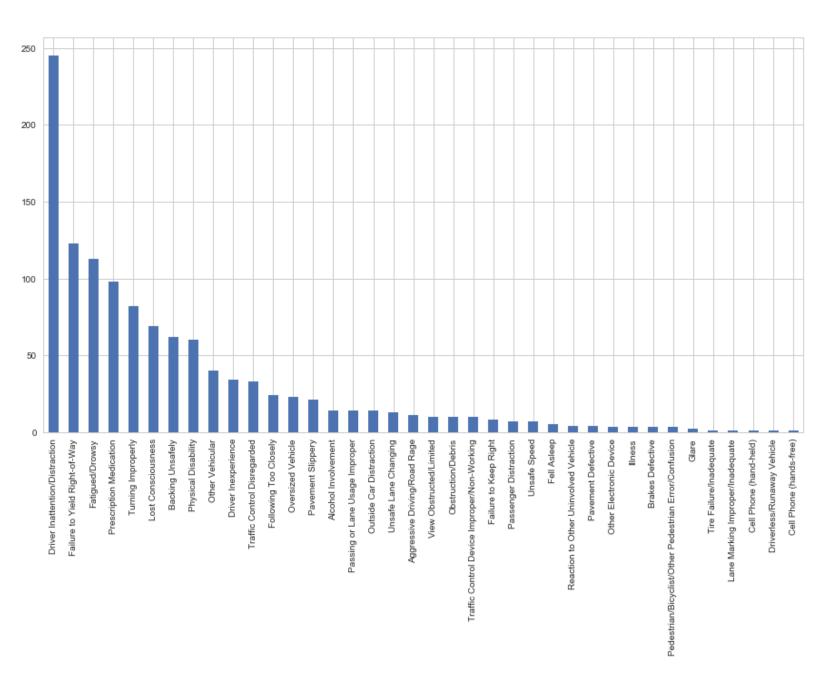


### UTICA AVENUE

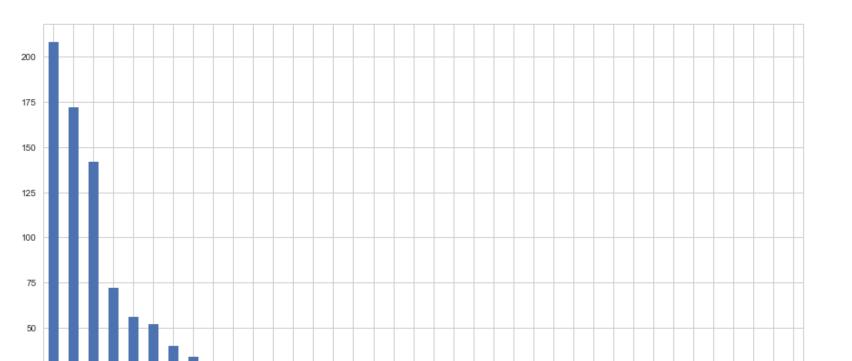


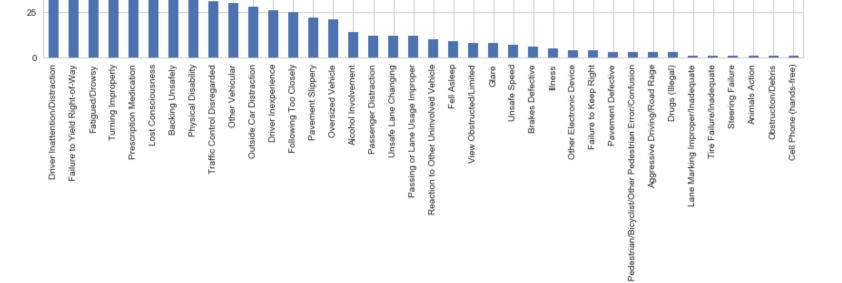
### In [34]:

### 3 AVENUE

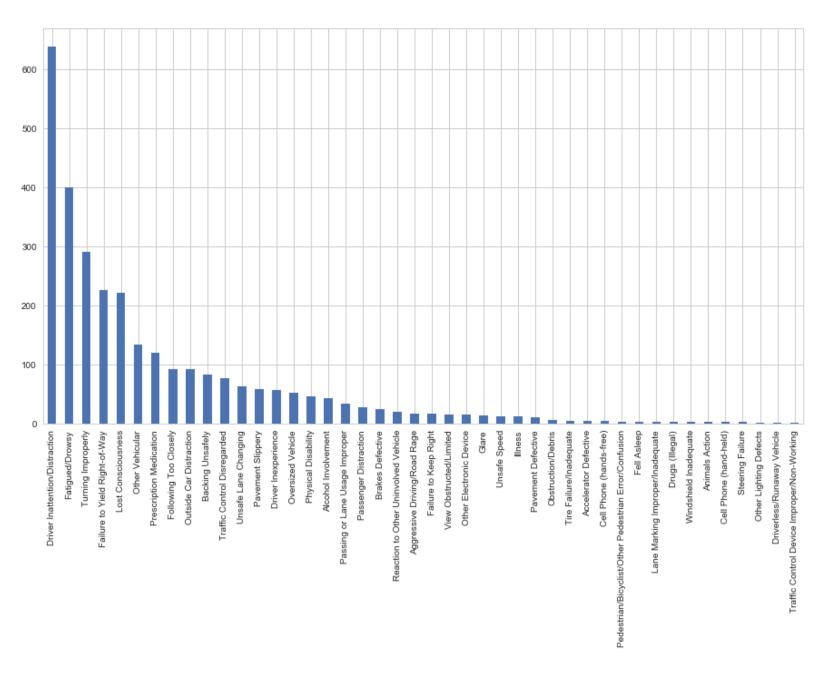


### 4 AVENUE



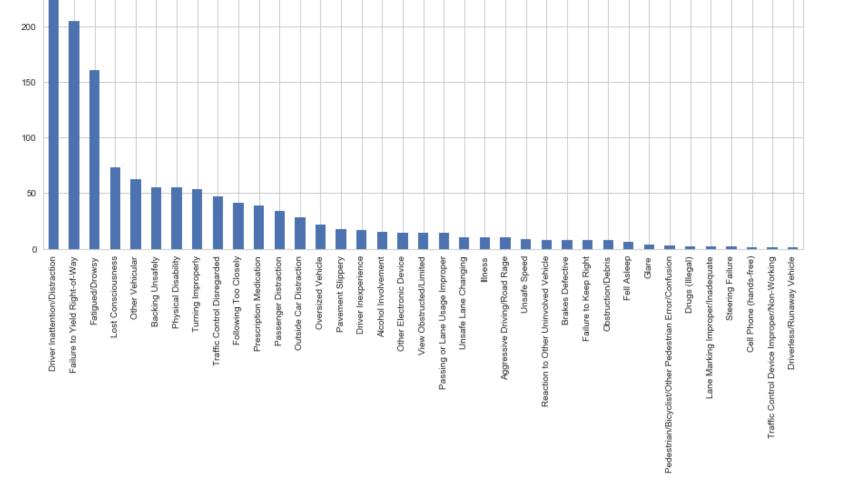


### ATLANTIC AVENUE

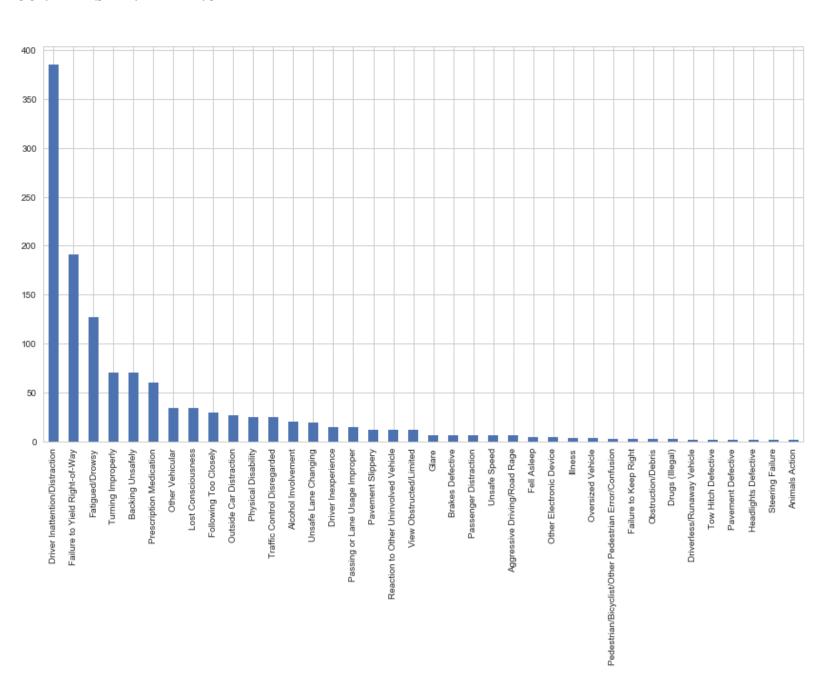


### BEDFORD AVENUE

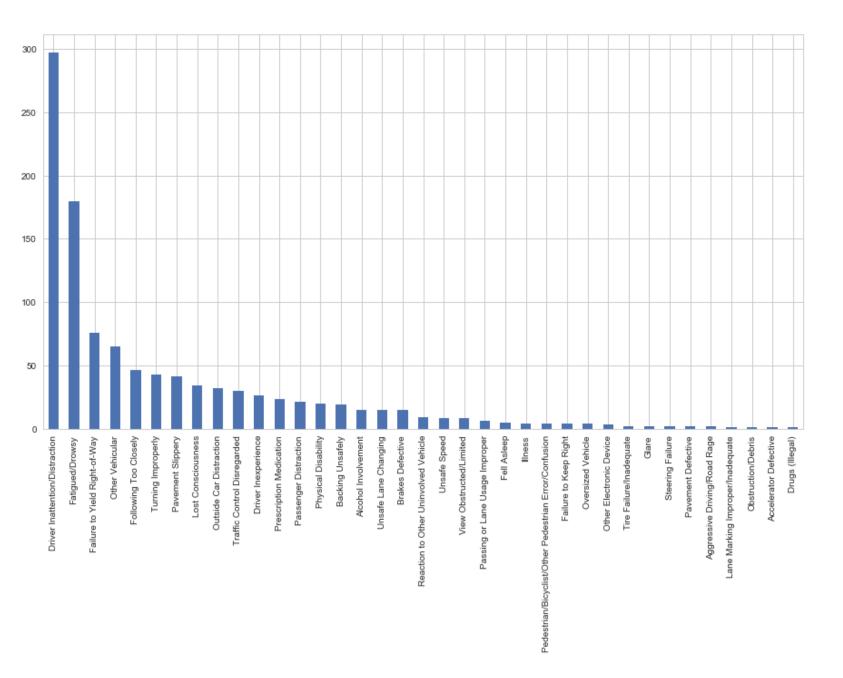




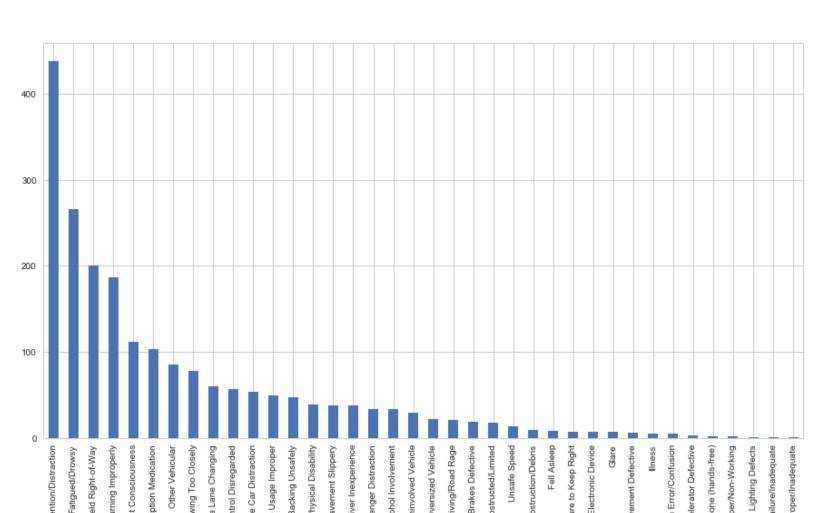
### CONEY ISLAND AVENUE



#### EASTERN PARKWAY

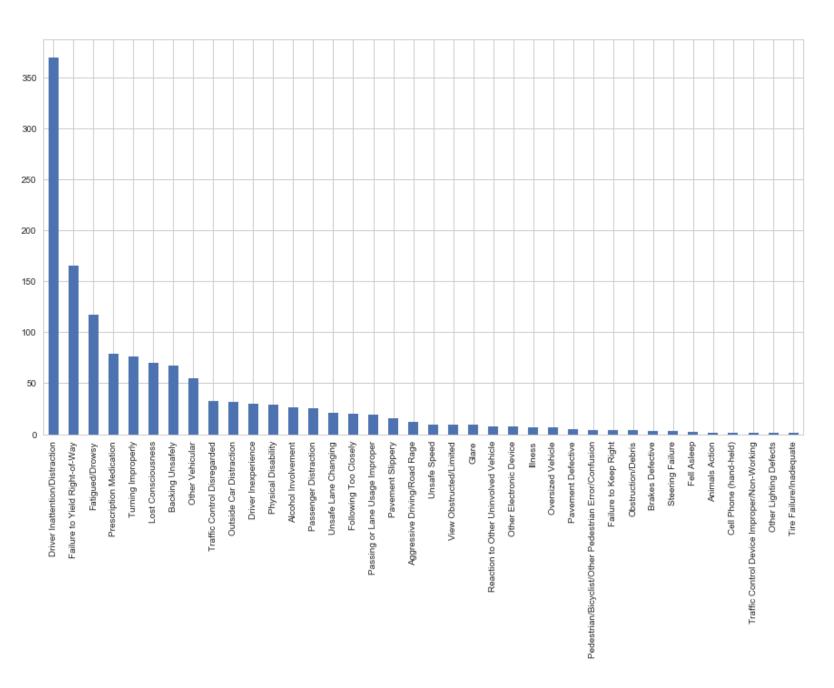


### FLATBUSH AVENUE



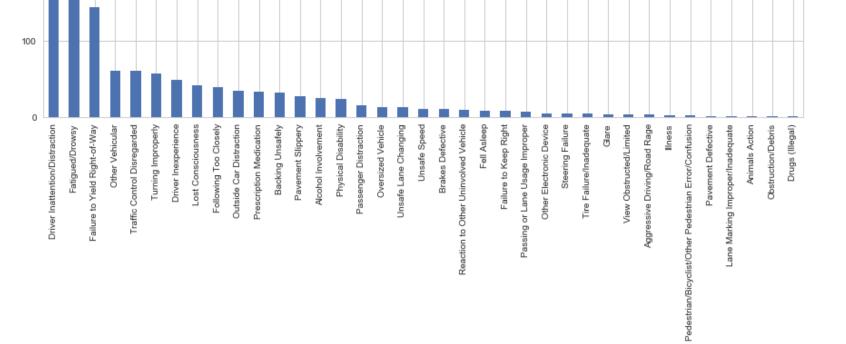
Prescri
Tu
Los
Los
Prescri
Prescri
Prescri
Outsid
Passing or Lane
Passing or Lane
Passing or Lane
Passing
Acc
Reaction to Other Un
Other &
Passing
Acce
Cell Ph
Traffic Control Device Improp
Other
Tire Fe
Tire Fe

### NOSTRAND AVENUE

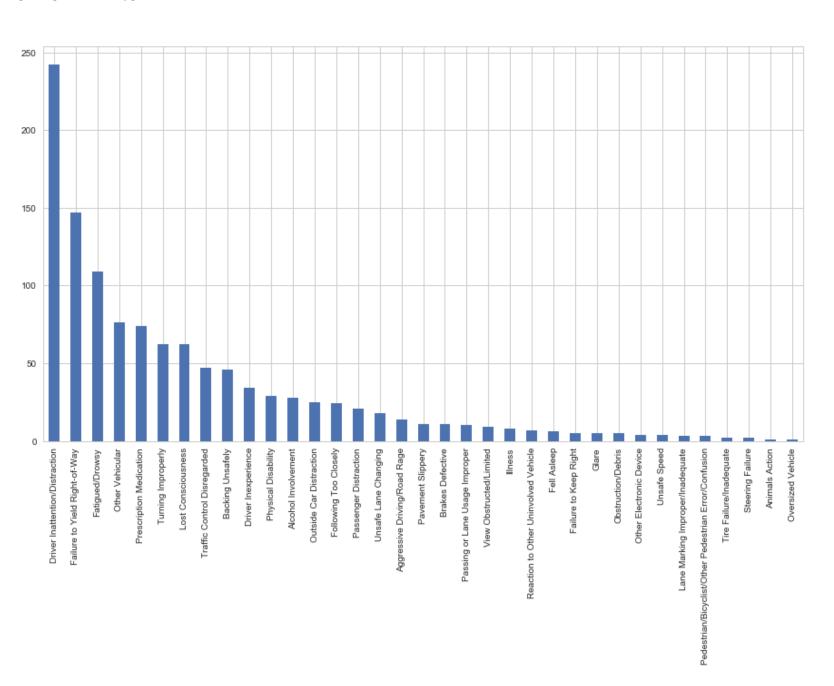


### OCEAN PARKWAY





### UTICA AVENUE



### In [315]:

# Out[315]:

BROOKLYN 243354
QUEENS 206046
MANHATTAN 201461
BRONX 104782
STATEN ISLAND 36598

Name: borough, dtype: int64

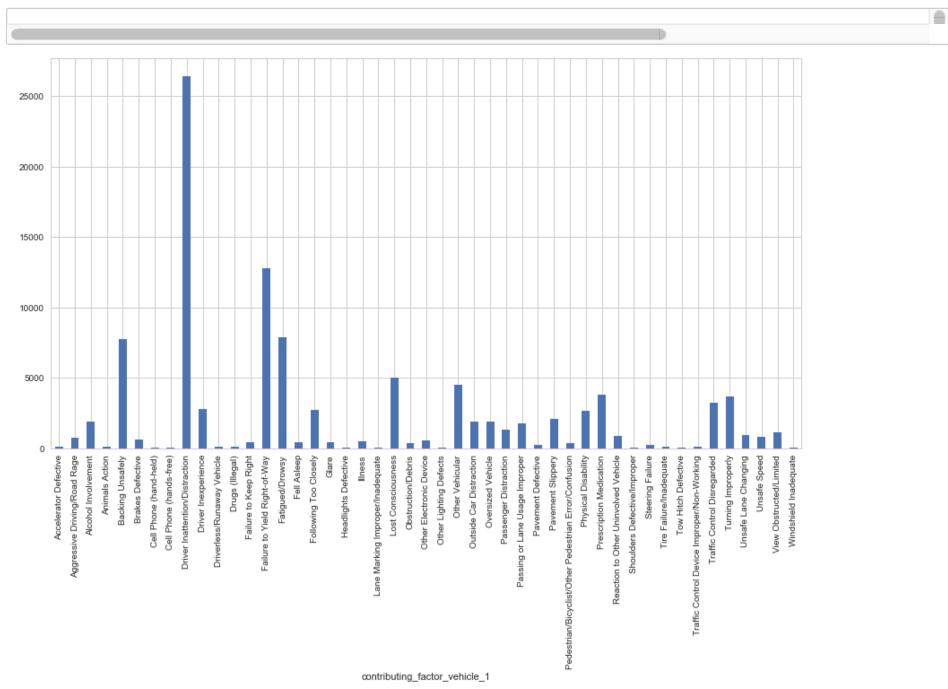
### In [36]:

## Out[36]:

contributing_factor_vehicle_1	
Accelerator Defective	48
Aggressive Driving/Road Rage	314
Alcohol Involvement	850
Animals Action	35
Backing Unsafely	876
Brakes Defective	306
Cell Phone (hand-held)	9
Cell Phone (hands-free)	15
Driver Inattention/Distraction	7814
Driver Inexperience	741
Driverless/Runaway Vehicle	10
Drugs (Illegal)	51
Failure to Keep Right	147
Failure to Yield Right-of-Way	6025
Fatigued/Drowsy	2125
Fell Asleep	132
Following Too Closely	879
Glare	262
Headlights Defective	9
Illness	192
Lane Marking Improper/Inadequate	18
Lost Consciousness	668
Obstruction/Debris	41
Other Electronic Device	145
Other Lighting Defects	8
Other Vehicular	1036
Outside Car Distraction	456
Oversized Vehicle	122
Passenger Distraction	966
Passing or Lane Usage Improper	277
Pavement Defective	75
Pavement Slippery	591
Pedestrian/Bicyclist/Other Pedestrian Error/Confusion	271

Physical Disability	1783
Prescription Medication	887
Reaction to Other Uninvolved Vehicle	179
Shoulders Defective/Improper	1
Steering Failure	49
Tire Failure/Inadequate	26
Tow Hitch Defective	1
Traffic Control Device Improper/Non-Working	70
Traffic Control Disregarded	1931
Turning Improperly	643
Unsafe Lane Changing	181
Unsafe Speed	423
View Obstructed/Limited	431
Windshield Inadequate	0
Name: number_of_persons_injured, dtype: int64	

### In [37]:

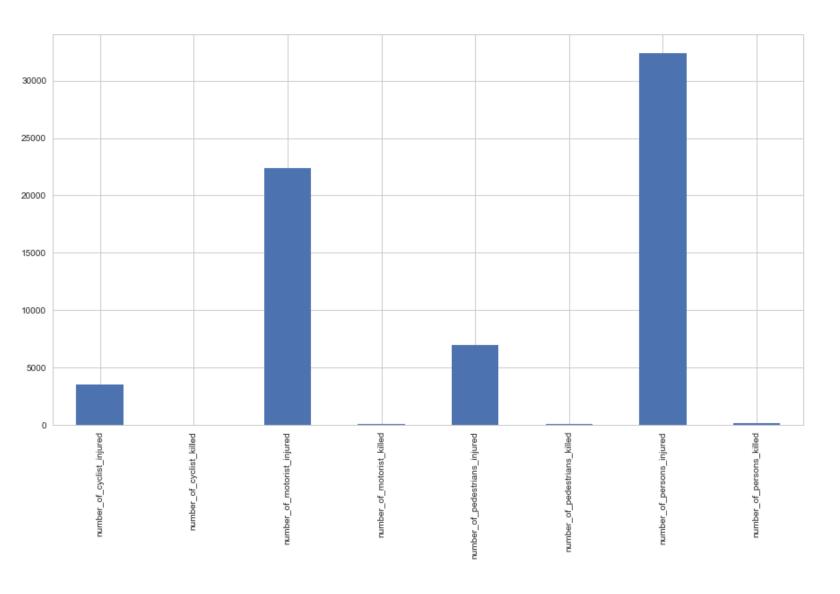


```
In [38]:
Out[38]:
243074
In [39]:
                                                                                     In [40]:
Out[40]:
number_of_cyclist_injured
                                   3549
number of cyclist killed
                                     11
number of motorist injured
                                  22385
                                     57
number_of_motorist_killed
                                   6990
number of pedestrians injured
number of pedestrians killed
                                     90
number_of_persons_injured
                                  32403
                                    159
number_of_persons_killed
dtype: int64
In [41]:
Out[41]:
                                   7575
number_of_cyclist_injured
number of motorist injured
                                  48008
number_of_pedestrians_injured
                                  16509
number_of_persons_injured
                                  71360
dtype: int64
In [42]:
Out[42]:
number of cyclist killed
                                  24
number_of_motorist_killed
                                  94
number_of_pedestrians_killed
                                 169
number_of_persons_killed
                                 288
dtype: int64
```

```
In [43]:
```

Out[43]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x11902efd0>



## In [44]:

## In [45]:

# In [46]:

## Out[46]:

# on\_street\_name

1	AVENUE	39
1	COURT	2
1	PLACE	13
1	STREET	18
10	) AVENUE	167
1 (	) STREET	17

100 STREET	6
101 STREET	3
11 AVENUE	173
11 STREET	18
12 AVENUE	179
12 STREET	16
13 AVENUE	345
13 STREET	545
14 AVENUE	302
14 AVENOE 14 STREET	302
15 AVENUE	189
15 AVENUE 15 STREET	49
	_
16 AVENUE	194
16 STREET	45
17 AVENUE	166
17 COURT	3
17 STREET	77
18 AVENUE	379
18 STREET	46
18TH AVE	2
19 AVENUE	97
19 STREET	78
2 AVENUE	165
2 PLACE	10
	• • •
WINTHROP ST	1
WINTHROP STREET	157
WITHERS STREET	26
WOLCOTT STREET	15
WOODBINE STREET	22
WOODHULL STREET	5
WOODPOINT ROAD	16
WOODRUFF AVENUE	16
WOODS PLACE	2
WORTMAN AVENUE	54
WYCKOFF AVENUE	75
WYCKOFF STREET	31
WYONA STREET	14
WYTHE AVE	1
WYTHE AVENUE	370
WYTHE PLACE	5
YORK STREET	45
bge	1
linden boulevard	1
malcolm x blvd	1
mother gaston blvd	1
paulding street	1
pitkin avenue	2
remsen avenue	1
saint johns place	1
schroeders avenue	1
skillman street	1
south 5th street	1
J LII D LI L L L L L L L L L L L L L L L	_

```
south conduit blvd
                          1
west 3rd
                          1
Name: on_street_name, Length: 1562, dtype: int64
In [94]:
Out[94]:
on_street_name
                         39
1 AVENUE
1 COURT
                          2
1 PLACE
                         13
1 STREET
                         18
10 AVENUE
                        167
10 STREET
                         17
100 STREET
                          6
101 STREET
                          3
11 AVENUE
                        173
11 STREET
                         18
                        179
12 AVENUE
12 STREET
                         16
13 AVENUE
                        345
                          6
13 STREET
                        302
14 AVENUE
14 STREET
                         32
                        189
15 AVENUE
                         49
15 STREET
16 AVENUE
                        194
                         45
16 STREET
                        166
17 AVENUE
17 COURT
                          3
                         77
17 STREET
                        379
18 AVENUE
18 STREET
                         46
                          2
18TH AVE
                         97
19 AVENUE
                         78
19 STREET
                        165
2 AVENUE
2 PLACE
                         10
WINTHROP ST
                          1
WINTHROP STREET
                        157
WITHERS STREET
                         26
WOLCOTT STREET
                         15
WOODBINE STREET
                         22
                          5
WOODHULL STREET
WOODPOINT ROAD
                         16
WOODRUFF AVENUE
                         16
                          2
WOODS PLACE
WORTMAN AVENUE
                         54
WYCKOFF AVENUE
                         75
```

```
14
WYONA STREET
                         1
WYTHE AVE
                       370
WYTHE AVENUE
WYTHE PLACE
                         5
                        45
YORK STREET
bge
                         1
linden boulevard
                         1
malcolm x blvd
                          1
mother gaston blvd
                         1
paulding street
                          1
pitkin avenue
                         2
remsen avenue
                          1
saint johns place
                         1
schroeders avenue
                         1
skillman street
                         1
south 5th street
                          1
south conduit blvd
                          1
west 3rd
                          1
Name: on street name, Length: 1562, dtype: int64
In [ ]:
In [48]:
Out[48]:
on street name
3 AVENUE
                        1177
4 AVENUE
                        1088
ATLANTIC AVENUE
                        2937
BEDFORD AVENUE
                        1401
CONEY ISLAND AVENUE
                        1238
EASTERN PARKWAY
                        1067
FLATBUSH AVENUE
                        2102
NOSTRAND AVENUE
                        1348
OCEAN PARKWAY
                        1399
                        1155
UTICA AVENUE
Name: contributing_factor_vehicle_1, dtype: int64
In [49]:
Out[49]:
                 contributing factor vehicle 1
on street name
```

Driver Inattention/Distraction

WYCKOFF STREET

3 AVENUE

245

31

	Failure to Yield Right-of-Way
123	Fatigued/Drowsy
113	Prescription Medication
98	
82	Turning Improperly
69	Lost Consciousness
62	Backing Unsafely
60	Physical Disability
	Other Vehicular
40	Driver Inexperience
34	Traffic Control Disregarded
33	Following Too Closely
24	Oversized Vehicle
23	
21	Pavement Slippery
14	Alcohol Involvement
14	Outside Car Distraction
14	Passing or Lane Usage Improper
13	Unsafe Lane Changing
	Aggressive Driving/Road Rage
11	Obstruction/Debris
10	Traffic Control Device Improper/Non-Working
10	View Obstructed/Limited
10	Failure to Keep Right
8	
7	Passenger Distraction
7	Unsafe Speed
5	Fell Asleep
4	Pavement Defective
•	Reaction to Other Uninvolved Vehicle

3	Brakes Defective
3	Illness
UTICA AVENUE	Lost Consciousness
62	Turning Improperly
	Traffic Control Disregarded
47	Backing Unsafely
46	Driver Inexperience
34	Physical Disability
29	Alcohol Involvement
28	Outside Car Distraction
25	Following Too Closely
24	Passenger Distraction
21	Unsafe Lane Changing
18	
14	Aggressive Driving/Road Rage
11	Brakes Defective
11	Pavement Slippery
10	Passing or Lane Usage Improper
9	View Obstructed/Limited
8	Illness
7	Reaction to Other Uninvolved Vehicle
6	Fell Asleep
	Failure to Keep Right
5	Glare
5	Obstruction/Debris
5	Other Electronic Device
4	

```
Unsafe Speed
4
                Lane Marking Improper/Inadequate
3
                Pedestrian/Bicyclist/Other Pedestrian Error/Confusion
3
                Steering Failure
2
                Tire Failure/Inadequate
2
                Animals Action
1
                Oversized Vehicle
1
Name: contributing_factor_vehicle_1, Length: 380, dtype: int64
In [50]:
Out[50]:
```

0	59	AVENUE
1	UTICA	AVENUE
2		NaN
3	JEFFERSON	AVENUE
4	FOSTER	AVENUE
5		NaN
6	136	AVENUE
7	LORING	AVENUE
8	20	AVENUE
9	WEST 5	STREET
10	FINGERBOAR	RD ROAD
11	EAST 105	STREET
12	SOUT	TH ROAD
13	ANNADAI	LE ROAD
14		NaN
15	WOODSIDE	AVENUE
16	34	AVENUE
17	EAST 58	STREET
18	JUNIUS	STREET
19		NaN
20	101	AVENUE
21		NaN
22	177	STREET
23		NaN
24	GREENWICH	AVENUE
25		NaN
26		NaN
27		NaN
28	2	AVENUE
29	GATES	AVENUE

. . .

1089235	166	STRI	EET	
1089236	UNION	STRI	EET	
1089237	YORK	AVE	NUE	
1089238	EAST 24	STRI	EET	
1089239		1	NaN	
1089240		1	NaN	
1089241	6	AVE	NUE	
1089242	RIVERDALE	AVE	NUE	
1089243	NOSTRAND	AVE	NUE	
1089244	CEDAR CROI	T RO	DAD	
1089245		1	NaN	
1089246	LINCOLI	N PLA	ACE	
1089247	BI	ROADV	YAY	
1089248	3	AVE	NUE	
1089249	EAST 2	STRI	EET	
1089250	${\tt ROOSEVELT}$	AVE	NUE	
1089251		1	NaN	
1089252		1	NaN	
1089253	EVERGREEN	AVE	NUE	
1089254	5	AVE	NUE	
1089255	DAHLIA	AVE	NUE	
1089256	PLAINVIEW	AVE	NUE	
1089257	DITMAS	AVE	NUE	
1089258		1	NaN	
1089259	10	AVE	NUE	
1089260	THAYER	STRI	EET	
1089261		1	NaN	
1089262	BERGEN	AVE	NUE	
1089263			NaN	
1089264		ROADI		
Name: cross	s street na	ame,	Length:	108926

Name: cross\_street\_name, Length: 1089265, dtype: object

## In [51]:

## Out[51]:

on_street_name	
1 AVENUE	77
1 COURT	5
1 PLACE	32
1 STREET	61
10 AVENUE	334
10 STREET	63
100 STREET	28
101 STREET	13
104 STREET	1
11 AVENUE	363
11 STREET	71
12 AVENUE	397
12 STREET	82
12 avenue	1

13 STREET       49         14 AVENUE       675         14 STREET       98         15 AVENUE       457         15 STREET       134         16 AVENUE       486         16 STREET       98         17 AVENUE       381         17 COURT       4         17 STREET       182         18 AVENUE       928         18 STREET       96         18TH AVE       2         19 AVENUE       252         19 LANE       1         WYONA STREET       82         WYTHE AVE       1         WYTHE AVENUE       514         WYTHE PLACE       8         Washington avenue       1         YORK STREET       65         bge       1         chauncey street       1         dekalb avenue       1         elton street       1         hamilton avenue       1         linden boulevard       1         malcolm x blvd       1         mother gaston blvd       1         old fulton street       1         pitkin avenue       4         remsen avenue       1	13 AVENUE	725
14 STREET       98         15 AVENUE       457         15 STREET       134         16 AVENUE       486         16 STREET       98         17 AVENUE       381         17 COURT       4         17 STREET       182         18 AVENUE       928         18 STREET       96         18TH AVE       2         19 AVENUE       252         19 LANE       1         WYONA STREET       82         WYTHE AVE       1         WYTHE PLACE       8         Washington avenue       1         YORK STREET       65         bqe       1         chauncey street       1         dekalb avenue       1         elton street       1         hamilton avenue       1         linden boulevard       1         malcolm x blvd       1         mother gaston blvd       1         old fulton street       1         paulding street       1         pitkin avenue       1         remsen avenue       1         schroeders avenue       1         skillman street <td< td=""><td></td><td></td></td<>		
15 AVENUE 457 15 STREET 134 16 AVENUE 486 16 STREET 98 17 AVENUE 381 17 COURT 4 17 STREET 182 18 AVENUE 928 18 STREET 96 18TH AVE 2 19 AVENUE 252 19 LANE 1  WYONA STREET 82 WYTHE AVE 1 WYTHE AVE 1 WYTHE PLACE 8 Washington avenue 1 YORK STREET 65 bqe 1 chauncey street 65 bqe 1 chauncey street 1 dekalb avenue 1 elton street 1 hamilton avenue 1 linden boulevard 1 malcolm x blvd 1 morris avenue 2 mother gaston blvd 1 old fulton street 1 pulding street 1 pitkin avenue 4 remsen avenue 1 rockaway ave 1 saint johns place 1 schroeders avenue 1 skillman street 1 south 5th street 1 south conduit blvd 1 south market street 1 st edwards street 1 thomas s boyland street 1 utica avenue 1 west 3rd 1	14 AVENUE	
15 STREET 134 16 AVENUE 486 16 STREET 98 17 AVENUE 381 17 COURT 4 17 STREET 182 18 AVENUE 928 18 STREET 96 18TH AVE 2 19 AVENUE 252 19 LANE 1  WYONA STREET 82 WYTHE AVE 1 WYTHE AVE 1 WYTHE PLACE 8 Washington avenue 1 YORK STREET 65 bqe 1 chauncey street 1 dekalb avenue 1 elton street 1 hamilton avenue 1 linden boulevard 1 malcolm x blvd 1 morris avenue 2 mother gaston blvd 1 old fulton street 1 paulding street 1 paulding street 1 pitkin avenue 4 remsen avenue 1 rockaway ave 1 saint johns place 1 schroeders avenue 1 skillman street 1 south 5th street 1 south conduit blvd 1 south market street 1 st edwards street 1 thomas s boyland street 1 utica avenue 1 west 3rd 1	14 STREET	98
16 AVENUE       486         16 STREET       98         17 AVENUE       381         17 COURT       4         17 STREET       182         18 AVENUE       928         18 STREET       96         18 TH AVE       2         19 AVENUE       252         19 LANE       1         WYONA STREET       82         WYTHE AVE       1         WYTHE PLACE       8         Washington avenue       1         YORK STREET       65         bqe       1         chauncey street       1         dekalb avenue       1         elton street       1         hamilton avenue       1         linden boulevard       1         malcolm x blvd       1         morris avenue       2         mother gaston blvd       1         old fulton street       1         pitkin avenue       4         remsen avenue       1         rockaway ave       1         saint johns place       1         schroeders avenue       1         skillman street       1         south onduit blvd </td <td>15 AVENUE</td> <td>457</td>	15 AVENUE	457
16 STREET       98         17 AVENUE       381         17 COURT       4         17 STREET       182         18 AVENUE       928         18 STREET       96         18 TH AVE       2         19 AVENUE       252         19 LANE       1         WYONA STREET       82         WYTHE AVE       1         WYTHE PLACE       8         Washington avenue       1         YORK STREET       65         bqe       1         chauncey street       1         dekalb avenue       1         elton street       1         hamilton avenue       1         linden boulevard       1         malcolm x blvd       1         mother gaston blvd       1         old fulton street       1         paulding street       1         pitkin avenue       4         remsen avenue       1         rockaway ave       1         saint johns place       1         schroeders avenue       1         south conduit blvd       1         south market street       1         toward	15 STREET	134
17 AVENUE       381         17 COURT       4         17 STREET       182         18 AVENUE       928         18 STREET       96         18TH AVE       2         19 AVENUE       252         19 LANE       1         WYONA STREET       82         WYTHE AVE       1         WYTHE PLACE       8         Washington avenue       1         YORK STREET       65         bqe       1         chauncey street       1         dekalb avenue       1         elton street       1         hamilton avenue       1         linden boulevard       1         malcolm x blvd       1         mother gaston blvd       1         old fulton street       1         paulding street       1         pitkin avenue       4         remsen avenue       1         saint johns place       1         schroeders avenue       1         skillman street       1         south conduit blvd       1         south market street       1         thomas s boyland street       1	16 AVENUE	486
17 COURT	16 STREET	98
17 STREET       182         18 AVENUE       928         18 STREET       96         18TH AVE       2         19 AVENUE       252         19 LANE       1         WYONA STREET       82         WYTHE AVE       1         WYTHE PLACE       8         Washington avenue       1         YORK STREET       65         bqe       1         chauncey street       1         dekalb avenue       1         elton street       1         hamilton avenue       1         linden boulevard       1         malcolm x blvd       1         mother gaston blvd       1         old fulton street       1         paulding street       1         pitkin avenue       4         remsen avenue       1         schroeders avenue       1         skillman street       1         south conduit blvd       1         south market street       1         south market street       1         thomas s boyland street       1         thomas s boyland street       1         thomas s boyland street <t< td=""><td>17 AVENUE</td><td>381</td></t<>	17 AVENUE	381
18 AVENUE 928 18 STREET 96 18TH AVE 2 19 AVENUE 252 19 LANE 1  WYONA STREET 82 WYTHE AVE 1 WYTHE AVENUE 514 WYTHE PLACE 8 Washington avenue 1 YORK STREET 65 bqe 1 chauncey street 1 dekalb avenue 1 elton street 1 hamilton avenue 1 linden boulevard 1 malcolm x blvd 1 morris avenue 2 mother gaston blvd 1 old fulton street 1 paulding street 1 paulding street 1 pitkin avenue 4 remsen avenue 1 rockaway ave 1 saint johns place 1 schroeders avenue 1 skillman street 1 south 5th street 1 south conduit blvd 1 south market street 1 st edwards street 1 thomas s boyland street 1 utica avenue 1 west 3rd 1	17 COURT	4
18 STREET 96 18TH AVE 2 19 AVENUE 252 19 LANE 1  WYONA STREET 82 WYTHE AVE 1 WYTHE AVENUE 514 WYTHE PLACE 8 Washington avenue 1 YORK STREET 65 bqe 1 chauncey street 1 dekalb avenue 1 elton street 1 hamilton avenue 1 linden boulevard 1 malcolm x blvd 1 morris avenue 2 mother gaston blvd 1 old fulton street 1 paulding street 1 patkin avenue 4 remsen avenue 1 rockaway ave 1 saint johns place 1 schroeders avenue 1 skillman street 1 south 5th street 1 south conduit blvd 1 south market street 1 st edwards street 1 thomas s boyland street 1 utica avenue 1 west 3rd 1	17 STREET	182
18TH AVE 252 19 AVENUE 252 19 LANE 1  WYONA STREET 82 WYTHE AVE 1 WYTHE AVENUE 514 WYTHE PLACE 8 Washington avenue 1 YORK STREET 65 bqe 1 chauncey street 1 dekalb avenue 1 elton street 1 hamilton avenue 1 linden boulevard 1 malcolm x blvd 1 morris avenue 2 mother gaston blvd 1 old fulton street 1 paulding street 1 pitkin avenue 4 remsen avenue 1 rockaway ave 1 saint johns place 1 schroeders avenue 1 skillman street 1 south 5th street 1 south conduit blvd 1 south market street 1 st edwards street 1 thomas s boyland street 1 utica avenue 1 west 3rd 1	18 AVENUE	928
19 AVENUE 1 19 LANE 1  WYONA STREET 82 WYTHE AVE 1 WYTHE AVENUE 514 WYTHE PLACE 8 Washington avenue 1 YORK STREET 65 bqe 1 chauncey street 1 dekalb avenue 1 elton street 1 hamilton avenue 1 linden boulevard 1 malcolm x blvd 1 morris avenue 2 mother gaston blvd 1 old fulton street 1 paulding street 1 paulding street 1 pitkin avenue 4 remsen avenue 1 rockaway ave 1 saint johns place 1 schroeders avenue 1 skillman street 1 south 5th street 1 south conduit blvd 1 south market street 1 st edwards street 1 thomas s boyland street 1 utica avenue 1 west 3rd 1	18 STREET	96
WYONA STREET 82 WYTHE AVE 1 WYTHE AVENUE 514 WYTHE PLACE 8 Washington avenue 1 YORK STREET 65 bqe 1 chauncey street 1 dekalb avenue 1 elton street 1 hamilton avenue 1 linden boulevard 1 malcolm x blvd 1 morris avenue 2 mother gaston blvd 1 old fulton street 1 paulding street 1 pitkin avenue 4 remsen avenue 1 rockaway ave 1 saint johns place 1 schroeders avenue 1 skillman street 1 south 5th street 1 south conduit blvd 1 south market street 1 st edwards street 1 thomas s boyland street 1 utica avenue 1 west 3rd 1	18TH AVE	2
WYONA STREET WYTHE AVE WYTHE AVE WYTHE AVENUE WYTHE PLACE Washington avenue YORK STREET 65 bqe chauncey street dekalb avenue elton street hamilton avenue linden boulevard malcolm x blvd morris avenue mother gaston blvd old fulton street paulding street pitkin avenue remsen avenue rockaway ave saint johns place schroeders avenue skillman street south 5th street south conduit blvd south market street st edwards street thomas s boyland street utica avenue  west 3rd  82  82  82  82  82  82  82  84  84  85  84  84  85  84  84  85  84  84	19 AVENUE	252
WYTHE AVE WYTHE AVENUE  WYTHE PLACE Washington avenue 1 YORK STREET 65 bqe 1 chauncey street dekalb avenue elton street 1 hamilton avenue 1 linden boulevard malcolm x blvd morris avenue mother gaston blvd old fulton street paulding street pitkin avenue remsen avenue rockaway ave saint johns place schroeders avenue skillman street south 5th street south conduit blvd south market street thomas s boyland street utica avenue  west 3rd  1	19 LANE	1
WYTHE AVE WYTHE AVENUE  WYTHE PLACE Washington avenue 1 YORK STREET 65 bqe 1 chauncey street dekalb avenue elton street 1 hamilton avenue 1 linden boulevard malcolm x blvd morris avenue mother gaston blvd old fulton street paulding street pitkin avenue remsen avenue rockaway ave saint johns place schroeders avenue skillman street south 5th street south conduit blvd south market street thomas s boyland street utica avenue  west 3rd  1		• • •
WYTHE AVENUE 514 WYTHE PLACE 8 Washington avenue 1 YORK STREET 65 bqe 1 chauncey street 1 dekalb avenue 1 elton street 1 hamilton avenue 1 linden boulevard 1 malcolm x blvd 1 morris avenue 2 mother gaston blvd 1 old fulton street 1 paulding street 1 pitkin avenue 4 remsen avenue 1 rockaway ave 1 saint johns place 1 schroeders avenue 1 skillman street 1 south 5th street 1 south conduit blvd 1 south market street 1 st edwards street 1 thomas s boyland street 1 utica avenue 1 west 3rd 1	WYONA STREET	82
WYTHE PLACE Washington avenue 1 YORK STREET 65 bqe 1 chauncey street dekalb avenue elton street hamilton avenue linden boulevard malcolm x blvd morris avenue mother gaston blvd old fulton street paulding street paulding street pitkin avenue remsen avenue rockaway ave saint johns place schroeders avenue skillman street south 5th street south conduit blvd south market street thomas s boyland street utica avenue  west 3rd  1	WYTHE AVE	1
Washington avenue 1 YORK STREET 65 bqe 1 chauncey street 1 dekalb avenue 1 elton street 1 hamilton avenue 1 linden boulevard 1 malcolm x blvd 1 morris avenue 2 mother gaston blvd 1 old fulton street 1 paulding street 1 pitkin avenue 4 remsen avenue 1 rockaway ave 1 saint johns place 1 schroeders avenue 1 skillman street 1 south 5th street 1 south conduit blvd 1 south market street 1 st edwards street 1 thomas s boyland street 1 utica avenue 1 west 3rd 1	WYTHE AVENUE	514
YORK STREET 65 bqe 1 chauncey street 1 dekalb avenue 1 elton street 1 hamilton avenue 1 linden boulevard 1 malcolm x blvd 1 morris avenue 2 mother gaston blvd 1 old fulton street 1 paulding street 1 pitkin avenue 4 remsen avenue 1 rockaway ave 1 saint johns place 1 schroeders avenue 1 skillman street 1 south 5th street 1 south conduit blvd 1 south market street 1 st edwards street 1 thomas s boyland street 1 utica avenue 1 west 3rd 1	WYTHE PLACE	_
bqe 1 chauncey street 1 dekalb avenue 1 elton street 1 hamilton avenue 1 linden boulevard 1 malcolm x blvd 1 morris avenue 2 mother gaston blvd 1 old fulton street 1 paulding street 1 pitkin avenue 4 remsen avenue 1 rockaway ave 1 saint johns place 1 schroeders avenue 1 skillman street 1 south 5th street 1 south conduit blvd 1 south market street 1 st edwards street 1 thomas s boyland street 1 utica avenue 1 west 3rd 1	Washington avenue	1
chauncey street  dekalb avenue  elton street  hamilton avenue  linden boulevard  malcolm x blvd  morris avenue  mother gaston blvd  old fulton street  paulding street  pitkin avenue  remsen avenue  rockaway ave  saint johns place  schroeders avenue  skillman street  south 5th street  south conduit blvd  south market street  thomas s boyland street  utica avenue  nessen  1  1  1  1  1  1  1  1  1  1  1  1  1	YORK STREET	65
dekalb avenue 1 elton street 1 hamilton avenue 1 linden boulevard 1 malcolm x blvd 1 morris avenue 2 mother gaston blvd 1 old fulton street 1 paulding street 1 pitkin avenue 4 remsen avenue 1 rockaway ave 1 saint johns place 1 schroeders avenue 1 skillman street 1 south 5th street 1 south conduit blvd 1 south market street 1 st edwards street 1 thomas s boyland street 1 utica avenue 1 west 3rd 1	bqe	_
elton street hamilton avenue linden boulevard malcolm x blvd morris avenue mother gaston blvd old fulton street paulding street pitkin avenue remsen avenue rockaway ave saint johns place schroeders avenue skillman street south 5th street south conduit blvd south market street st edwards street thomas s boyland street utica avenue  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<del>-</del>	
hamilton avenue  linden boulevard  malcolm x blvd  morris avenue  mother gaston blvd  old fulton street  paulding street  pitkin avenue  remsen avenue  rockaway ave  saint johns place  schroeders avenue  skillman street  south 5th street  south conduit blvd  south market street  st edwards street  thomas s boyland street  utica avenue  west 3rd		1
linden boulevard  malcolm x blvd  morris avenue  mother gaston blvd  old fulton street  paulding street  pitkin avenue  remsen avenue  rockaway ave  saint johns place  schroeders avenue  skillman street  south 5th street  south conduit blvd  south market street  thomas s boyland street  utica avenue  name of the street  thomas s boyland street  utica avenue  name of the street  thomas s boyland street  utica avenue  name of the street  south street  thomas s boyland street  utica avenue  name of the street  south s		_
malcolm x blvd 1 morris avenue 2 mother gaston blvd 1 old fulton street 1 paulding street 1 pitkin avenue 4 remsen avenue 1 rockaway ave 1 saint johns place 1 schroeders avenue 1 skillman street 1 south 5th street 1 south conduit blvd 1 south market street 1 st edwards street 1 thomas s boyland street 1 utica avenue 1 west 3rd 1		_
morris avenue 2 mother gaston blvd 1 old fulton street 1 paulding street 1 pitkin avenue 4 remsen avenue 1 rockaway ave 1 saint johns place 1 schroeders avenue 1 skillman street 1 south 5th street 1 south conduit blvd 1 south market street 1 st edwards street 1 thomas s boyland street 1 utica avenue 1 west 3rd 1		_
mother gaston blvd 1 old fulton street 1 paulding street 1 pitkin avenue 4 remsen avenue 1 rockaway ave 1 saint johns place 1 schroeders avenue 1 skillman street 1 south 5th street 1 south conduit blvd 1 south market street 1 st edwards street 1 thomas s boyland street 1 utica avenue 1 west 3rd 1		_
old fulton street paulding street pitkin avenue remsen avenue rockaway ave saint johns place schroeders avenue skillman street south 5th street south conduit blvd south market street st edwards street thomas s boyland street utica avenue west 3rd  1		
paulding street pitkin avenue 4 remsen avenue 1 rockaway ave saint johns place schroeders avenue 1 skillman street 1 south 5th street 1 south conduit blvd 1 south market street 1 st edwards street 1 thomas s boyland street 1 utica avenue 1 west 3rd 1	_	_
pitkin avenue 4 remsen avenue 1 rockaway ave 1 saint johns place 1 schroeders avenue 1 skillman street 1 south 5th street 1 south conduit blvd 1 south market street 1 st edwards street 1 thomas s boyland street 1 utica avenue 1 west 3rd 1		_
remsen avenue 1 rockaway ave 1 saint johns place 1 schroeders avenue 1 skillman street 1 south 5th street 1 south conduit blvd 1 south market street 1 st edwards street 1 thomas s boyland street 1 utica avenue 1 west 3rd 1	-	_
rockaway ave 1 saint johns place 1 schroeders avenue 1 skillman street 1 south 5th street 1 south conduit blvd 1 south market street 1 st edwards street 1 thomas s boyland street 1 utica avenue 1 west 3rd 1	-	=
saint johns place  schroeders avenue  skillman street  south 5th street  south conduit blvd  south market street  st edwards street  thomas s boyland street  utica avenue  west 3rd  1		_
schroeders avenue 1 skillman street 1 south 5th street 1 south conduit blvd 1 south market street 1 st edwards street 1 thomas s boyland street 1 utica avenue 1 west 3rd 1		_
skillman street 1 south 5th street 1 south conduit blvd 1 south market street 1 st edwards street 1 thomas s boyland street 1 utica avenue 1 west 3rd 1	<u> </u>	_
south 5th street 1 south conduit blvd 1 south market street 1 st edwards street 1 thomas s boyland street 1 utica avenue 1 west 3rd 1		_
south conduit blvd 1 south market street 1 st edwards street 1 thomas s boyland street 1 utica avenue 1 west 3rd 1		_
south market street 1 st edwards street 1 thomas s boyland street 1 utica avenue 1 west 3rd 1		_
st edwards street 1 thomas s boyland street 1 utica avenue 1 west 3rd 1		_
thomas s boyland street 1 utica avenue 1 west 3rd 1		_
utica avenue 1 west 3rd 1		_
west 3rd 1	<del>-</del>	_
		_
name: namber or perbond arrited,	Name: number of persons k	_

Name: number\_of\_persons\_killed, Length: 1798, dtype: int64

## In [52]:

## Out[52]:

vehicle_type_code1	
AMBULANCE	588
BICYCLE	1067
BUS	3325
FIRE TRUCK	238
LARGE COM VEH(6 OR MORE TIRES)	2762
LIVERY VEHICLE	1223
MOTORCYCLE	1368
OTHER	6907
PASSENGER VEHICLE	144777
PEDICAB	1
PICK-UP TRUCK	3423
SCOOTER	101
SMALL COM VEH(4 TIRES)	3138
SPORT UTILITY / STATION WAGON	58598
TAXI	3026
UNKNOWN	5140
VAN	6234
<pre>Name: number_of_persons_killed,</pre>	dtype: int64

## In [53]:

#### In [54]:

Out[54]:

#### vehicle\_type\_code1 **AMBULANCE** 561 BICYCLE 845 BUS 3312 FIRE TRUCK 227 LARGE COM VEH(6 OR MORE TIRES) 2730 LIVERY VEHICLE 1221 MOTORCYCLE 1226 OTHER 6730 PASSENGER VEHICLE 130170 **PEDICAB** 1

VAN 6080 Name: number\_of\_persons\_injured, dtype: int64

3008

2926

2733

5097

53092

99

#### In [55]:

PICK-UP TRUCK

SMALL COM VEH(4 TIRES)

SPORT UTILITY / STATION WAGON

SCOOTER

UNKNOWN

TAXI

## In [56]:

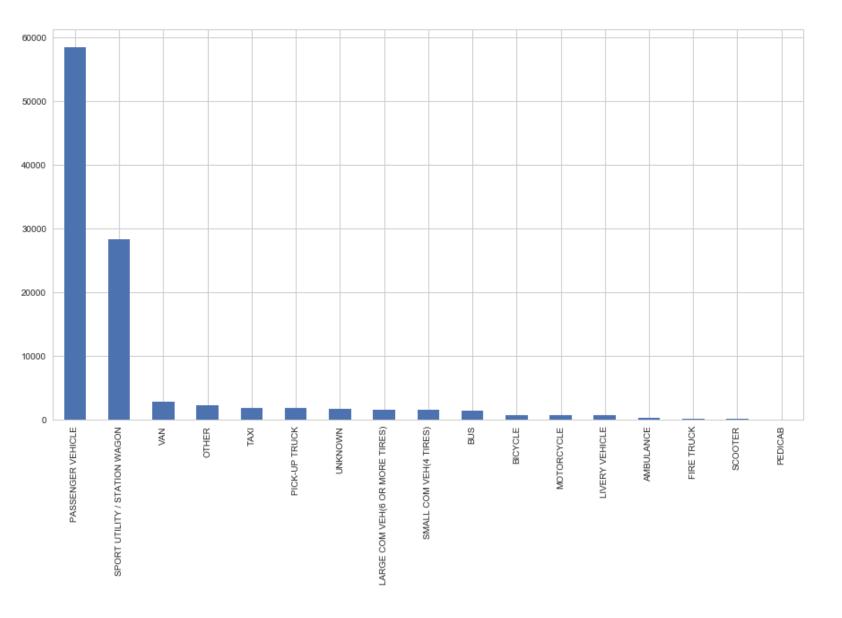
## Out[56]:

PASSENGER VEHICLE	58350
SPORT UTILITY / STATION WAGON	28248
VAN	2787
OTHER	2243
TAXI	1778
PICK-UP TRUCK	1760
UNKNOWN	1573
LARGE COM VEH(6 OR MORE TIRES)	1527
SMALL COM VEH(4 TIRES)	1474
BUS	1349
BICYCLE	649
MOTORCYCLE	649
LIVERY VEHICLE	583
AMBULANCE	195
FIRE TRUCK	81
SCOOTER	44
PEDICAB	1
<pre>Name: vehicle_type_code1, dtype:</pre>	int64

## In [57]:

## Out[57]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x11aeb4b38>



## In [124]:

```
Out[125]:
      borough contributing_factor_vehicle_1 contributing_factor_vehicle_2 contributing_factor_vehi
0
                                 Unspecified
                                                              Unspecified
          NaN
    BROOKLYN
                                 Unspecified
                                                              Unspecified
2
          NaN
                  Driver Inattention/Distraction
                                                              Unspecified
3
                                 Unspecified
    BROOKLYN
                                                              Unspecified
 4
    BROOKLYN
                                 Unspecified
                                                                     NaN
5 rows × 32 columns
In [60]:
In [61]:
Out[61]:
             borough contributing_factor_vehicle_1 contributing_factor_vehicle_2 contributing_fa
       1
                                                                     Unspecified
          BROOKLYN
                                       Unspecified
       3
                                                                     Unspecified
          BROOKLYN
                                       Unspecified
```

In [125]:

	BROOKLYN	Unspecified	NaN	
7	BROOKLYN	Unspecified	NaN	
9	BROOKLYN	Driver Inattention/Distraction	Unspecified	
11	BROOKLYN	Unspecified	Unspecified	
14	BROOKLYN	Unspecified	NaN	
18	BROOKLYN	Unspecified	Unspecified	
23	BROOKLYN	Unspecified	Unspecified	
31	BROOKLYN	Unspecified	Unspecified	
35	BROOKLYN	Driver Inattention/Distraction	Unspecified	
37	BROOKLYN	Unspecified	Unspecified	
39	BROOKLYN	Oversized Vehicle	Unspecified	
43	BROOKLYN	Unspecified	Unspecified	
45	BROOKLYN	Unspecified	NaN	
47	BROOKLYN	Driver Inexperience	Unspecified	

52	BROOKLYN	Driver Inexperience	Unspecified
54	BROOKLYN	Unspecified	Unspecified
60	BROOKLYN	Unspecified	Unspecified
64	BROOKLYN	Unspecified	NaN
66	BROOKLYN	Following Too Closely	Unspecified
68	BROOKLYN	Unspecified	Unspecified
69	BROOKLYN	Unspecified	Unspecified
76	BROOKLYN	Unspecified	Unspecified
83	BROOKLYN	Prescription Medication	Unspecified
84	BROOKLYN	Fatigued/Drowsy	Unspecified
85	BROOKLYN	Driver Inattention/Distraction	Unspecified
86	BROOKLYN	Failure to Yield Right-of-Way	Unspecified
87	BROOKLYN	Unspecified	Unspecified

89	BROOKLYN	Backing Unsafely	Backing Unsafely	
1089145	BROOKLYN	Unspecified	Unspecified	
1089146	BROOKLYN	Unspecified	Unspecified	
1089147	BROOKLYN	Unspecified	Unspecified	
1089154	BROOKLYN	Unspecified	Unspecified	
1089156	BROOKLYN	Lost Consciousness	Lost Consciousness	
1089158	BROOKLYN	Fatigued/Drowsy	Unspecified	
1089161	BROOKLYN	Unspecified	Unspecified	
1089162	BROOKLYN	Unspecified	Unspecified	
1089168	BROOKLYN	Fatigued/Drowsy	Unspecified	
1089169	BROOKLYN	Unspecified	Unspecified	
1089170	BROOKLYN	Failure to Yield Right-of-Way	NaN	
1089171	BROOKLYN	Unspecified	NaN	

1089172	BROOKLYN	Prescription Medication	Lost Consciousness	
1089177	BROOKLYN	Unspecified	Unspecified	
1089179	BROOKLYN	Unspecified	Unspecified	
1089190	BROOKLYN	Unspecified	Unspecified	
1089192	BROOKLYN	Physical Disability	Physical Disability	
1089193	BROOKLYN	Driver Inattention/Distraction	Fatigued/Drowsy	
1089201	BROOKLYN	Failure to Yield Right-of-Way	Failure to Yield Right-of-Way	
1089211	BROOKLYN	Unspecified	Unspecified	
1089220	BROOKLYN	Unspecified	Unspecified	
1089229	BROOKLYN	Driver Inattention/Distraction	NaN	
1089236	BROOKLYN	Unspecified	Unspecified	
1089238	BROOKLYN	Unspecified	Unspecified	
1089242	BROOKLYN	Unspecified	Unspecified	
1089243				

```
1089246
         BROOKLYN
                      Driver Inattention/Distraction
                                                             Unspecified
1089249
                                   Unspecified
                                                             Unspecified
         BROOKLYN
1089257
         BROOKLYN
                                   Unspecified
                                                                   NaN
1089264
                      Driver Inattention/Distraction
                                                             Unspecified
         BROOKLYN
In [325]:
                                                                                                   In [326]:
                                                                                                   Out[326]:
16:00:00
              3278
15:00:00
              3216
17:00:00
              3098
18:00:00
              2822
14:00:00
              2773
13:00:00
              2658
16:30:00
              2463
12:00:00
              2323
17:30:00
              2318
19:00:00
              2292
Name: Time, dtype: int64
In [319]:
Out[319]:
2724.1
```

Other Vehicular

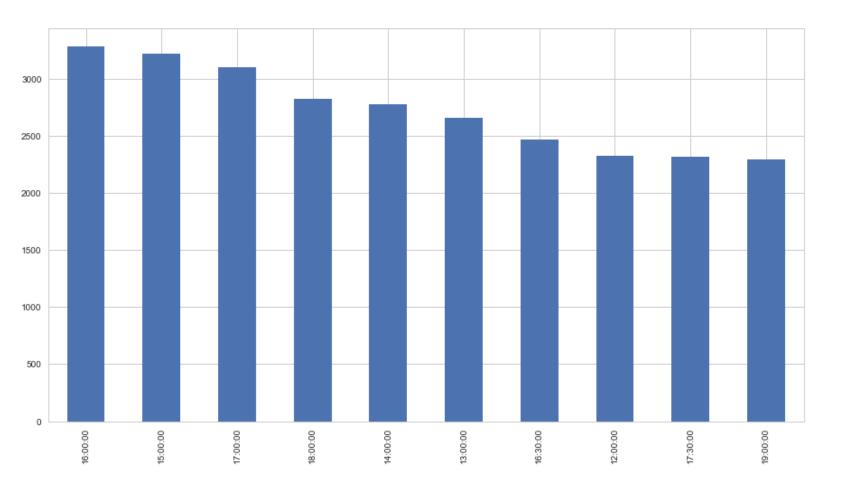
Unspecified

**BROOKLYN** 

```
In [65]:
```

Out[65]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x118fefcc0>



## In [173]:

#### In [175]:

## Out[175]:

13 8109 9 8106

Name: day, dtype: int64

#### In [68]:

## Out[68]:

number\_of\_cyclist\_injured7575number\_of\_motorist\_injured48008number\_of\_pedestrians\_injured16509number\_of\_persons\_injured71360

dtype: int64

#### In [69]:

#### Out[69]:

ATLANTIC AVENUE	7264
FLATBUSH AVENUE	5120
LINDEN BOULEVARD	3358
NOSTRAND AVENUE	3298
BEDFORD AVENUE	3143
OCEAN PARKWAY	3019
EASTERN PARKWAY	2964
UTICA AVENUE	2864
CONEY ISLAND AVENUE	2587
PENNSYLVANIA AVENUE	2488
KINGS HIGHWAY	2462
4 AVENUE	2394
FULTON STREET	2374
3 AVENUE	2237
OCEAN AVENUE	2194
BUSHWICK AVENUE	2096
CHURCH AVENUE	1877
86 STREET	1715
RALPH AVENUE	1662
65 STREET	1598
BROADWAY	1576
FLATLANDS AVENUE	1465
5 AVENUE	1461
MYRTLE AVENUE	1436
FLUSHING AVENUE	1414
AVENUE U	1407
ROGERS AVENUE	1323
ROCKAWAY PARKWAY	1320
FLATBUSH AVENUE EXTENSION	1308
AVENUE J	1170
DAHL COURT	1
chauncey street	1
Washington avenue	1
JEWELL STREET	1

STILLWELLS PLACE	1
SKIDMORE LANE	1
EAST 35 ST	1
WALWORTH ST	1
LEXINTON AVENUE	1
DOSHER STREET	1
KAUFMAN PLACE	1
S.PORTLAND AVE	1
BRIGHTON 4 ROAD	1
OLEAN STREET	1
Ocean avenue	1
BROOKLYN BATTERY TUNNEL	1
ANGELA DRIVE	1
south conduit blvd	1
OLD MILL ROAD	1
MARTIN L KING PLACE	1
south 5th street	1
ALTON PLACE	1
VERNON AV	1
W 3rd St	1
LOVE LANE	1
Nostrand avenue	1
WOGAN TERRACE	1
3 avenue	1
GATES AVE	1
BERRY ST	1
Name on street name Length.	1700

Name: on\_street\_name, Length: 1798, dtype: int64

## In [70]:

# Out[70]:

	number_of_cyclist_injured	number_of_motorist_injured	number_of_pedestrians_injured nu
1	0	0	0
3	0	0	0
4	0	4	0
7	0	0	1
9	0	0	0
11	0	0	0
14	0	0	0
18	0	0	0

23	0	0	0
31	0	0	0
35	0	0	0
37	0	0	0
39	0	0	0
43	0	0	0
45	0	0	0
47	0	0	0
52	0	0	0
54	0	0	0
60	0	0	0
64	0	0	0
66	0	0	0
68	0	0	0
69	0	1	0
76	0	0	0
83	0	0	0
84	0	0	0
85	0	1	0
86	0	0	0
87	0	0	0
89	0	0	0
•••			
1089145	0	0	0
1089146	0	0	0
1089147	0	0	0

1089154	0	0	0
1089156	0	0	0
1089158	0	0	0
1089161	0	0	0
1089162	0	0	0
1089168	0	3	0
1089169	0	0	0
1089170	0	0	1
1089171	0	0	1
1089172	0	0	0
1089177	0	0	0
1089179	0	0	0
1089190	0	0	0
1089192	0	0	0
1089193	0	0	0
1089201	0	0	0
1089211	0	0	0
1089220	0	0	0
1089229	0	0	1
1089236	0	0	0
1089238	0	0	0
1089242	0	1	0
1089243	0	0	0
1089246	0	0	0
1089249	1	0	0
1089257	0	0	1

**1089264** 0 0

1

1

## 243354 rows × 5 columns

## In [71]:

Out[71]:	
ATLANTIC AVENUE	7264
FLATBUSH AVENUE	5120
LINDEN BOULEVARD	3358
NOSTRAND AVENUE	3298
BEDFORD AVENUE	3143
OCEAN PARKWAY	3019
EASTERN PARKWAY	2964
UTICA AVENUE	2864
CONEY ISLAND AVENUE	2587
PENNSYLVANIA AVENUE	2488
KINGS HIGHWAY	2462
4 AVENUE	2394
FULTON STREET	2374
3 AVENUE	2237
OCEAN AVENUE	2194
BUSHWICK AVENUE	2096
CHURCH AVENUE	1877
86 STREET	1715
RALPH AVENUE	1662
65 STREET	1598
BROADWAY	1576
FLATLANDS AVENUE	1465
5 AVENUE	1461
MYRTLE AVENUE	1436
FLUSHING AVENUE	1414
AVENUE U	1407
ROGERS AVENUE	1323
ROCKAWAY PARKWAY	1320
FLATBUSH AVENUE EXTENSION	
AVENUE J	1170
DAHL COURT	1
chauncey street	1
Washington avenue	1
JEWELL STREET	1
STILLWELLS PLACE	1
SKIDMORE LANE	1
EAST 35 ST	1
WALWORTH ST	1
LEXINTON AVENUE	1
	-

DOSHER STREET

KAUFMAN PLACE

S.PORTLAND AVE	1
BRIGHTON 4 ROAD	1
OLEAN STREET	1
Ocean avenue	1
BROOKLYN BATTERY TUNNEL	1
ANGELA DRIVE	1
south conduit blvd	1
OLD MILL ROAD	1
MARTIN L KING PLACE	1
south 5th street	1
ALTON PLACE	1
VERNON AV	1
W 3rd St	1
LOVE LANE	1
Nostrand avenue	1
WOGAN TERRACE	1
3 avenue	1
GATES AVE	1
BERRY ST	1
Name: on_street_name, Length:	1798, dtype: int64

## In [72]:

## Out[72]:

ATLANTIC AVENUE

FLATBUSH AVENUE	5120
LINDEN BOULEVARD	3358
NOSTRAND AVENUE	3298
BEDFORD AVENUE	3143
OCEAN PARKWAY	3019
EASTERN PARKWAY	2964
UTICA AVENUE	2864
CONEY ISLAND AVENUE	2587
PENNSYLVANIA AVENUE	2488
KINGS HIGHWAY	2462
4 AVENUE	2394
FULTON STREET	2374
3 AVENUE	2237
OCEAN AVENUE	2194
BUSHWICK AVENUE	2096
CHURCH AVENUE	1877
86 STREET	1715
RALPH AVENUE	1662
65 STREET	1598
BROADWAY	1576
FLATLANDS AVENUE	1465
5 AVENUE	1461
MYRTLE AVENUE	1436
FLUSHING AVENUE	1414
AVENUE U	1407

7264

FLATBUSH AVENUE EXTENSION	1308	
AVENUE J	1170	
	• • •	
DAHL COURT	1	
chauncey street	1	
Washington avenue	1	
JEWELL STREET	1	
STILLWELLS PLACE	1	
SKIDMORE LANE	1	
EAST 35 ST	1	
WALWORTH ST	1	
LEXINTON AVENUE	1	
DOSHER STREET	1	
KAUFMAN PLACE	1	
S.PORTLAND AVE	1	
BRIGHTON 4 ROAD	1	
OLEAN STREET	1	
Ocean avenue	1	
BROOKLYN BATTERY TUNNEL	1	
ANGELA DRIVE	1	
south conduit blvd	1	
OLD MILL ROAD	1	
MARTIN L KING PLACE	1	
south 5th street	1	
ALTON PLACE	1	
VERNON AV	1	
W 3rd St	1	
LOVE LANE	1	
Nostrand avenue	1	
WOGAN TERRACE	1	
3 avenue	1	
GATES AVE	1	
BERRY ST	1	
Name: on_street_name, Length:	1798, dtype: int64	

ROGERS AVENUE

ROCKAWAY PARKWAY

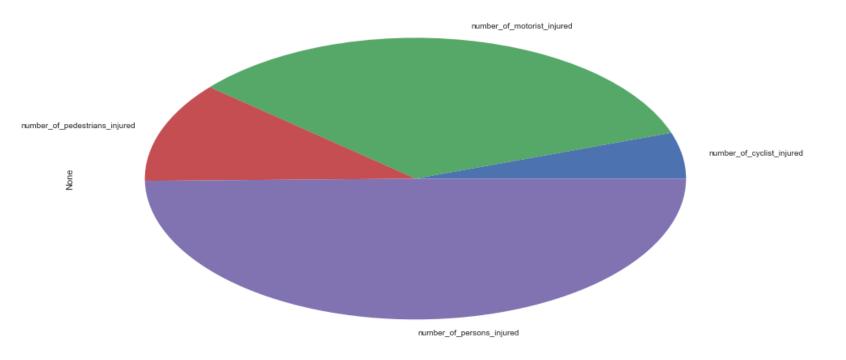
1323

1320

#### In [73]:

Out[73]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x1189ad358>



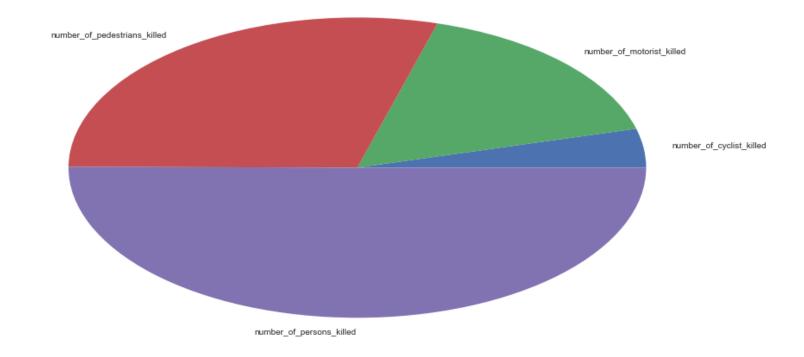
## In [ ]:

In [ ]:

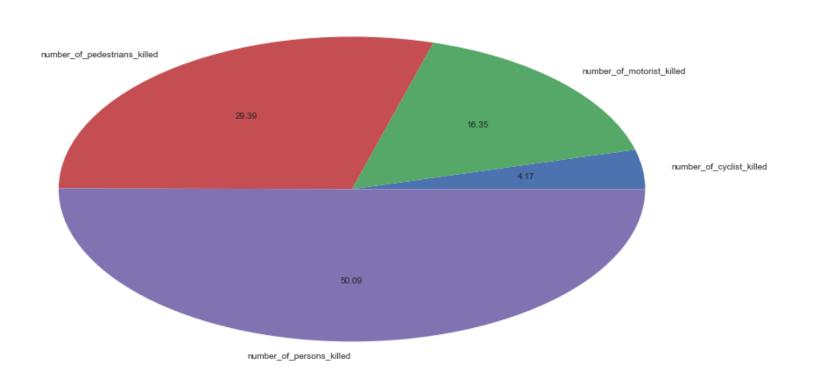
In [74]:

Out[74]:

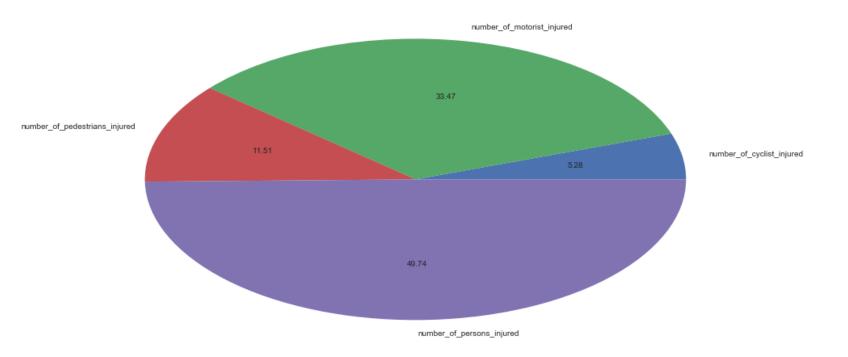
<matplotlib.axes.\_subplots.AxesSubplot at 0x1184bf518>



## In [75]:



In [76]:



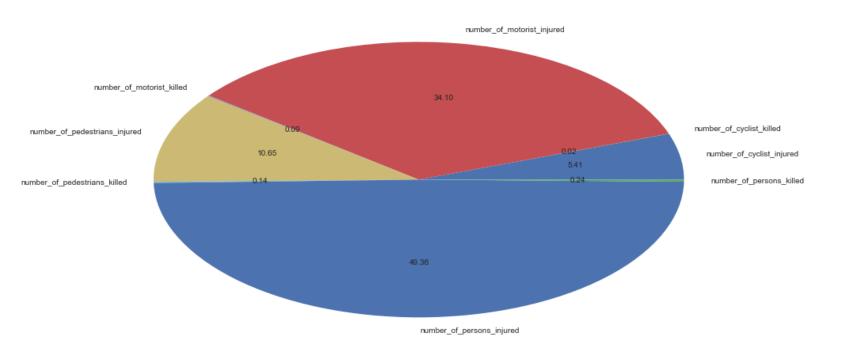
## In [77]:

## In [78]:

## Out[78]:

number of cyclist injured	3549
number_of_cyclist_killed	11
number_of_motorist_injured	22385
number_of_motorist_killed	57
<pre>number_of_pedestrians_injured</pre>	6990
<pre>number_of_pedestrians_killed</pre>	90
<pre>number_of_persons_injured</pre>	32403
<pre>number_of_persons_killed</pre>	159
dtype: int64	

## In [79]:



## In [80]:

## In [81]:

## Out[81]:

	off_street_name
14	750 54 STREET
23	230 6 AVE
85	201 EAST 18 STREET
89	1690 EAST 102 STREET
93	766 EAST 80 STREET
293	739 MACDONOUGH STREET
321	4618 8 AVENUE
456	50 VANDALIA AVENUE
492	9901 GLENWOOD ROAD
495	742 WASHINGTON AVENUE
518	294 PARK PLACE

540	2909 WEST 17 STREET
619	241 SUYDAM STREET
639	60 WATER STREET
649	1366 EAST 37 STREET
692	673 EAST 94 STREET
719	486 7TH STREET
721	799 MANHATTAN AVENUE
782	34 SHARON STREET
817	1397 FULTON STREET
946	1502 PITKIN AVENUE
958	1107 GLENMORE AVENUE
970	872 QUINCY STREET
992	4228 10 AVENUE
1075	181 RUSSELL STREET
1121	962 68 STREET
1165	629 WARREN STREET
1372	367 STOCKHOLM STREET
1409	408 ROCKAWAY AVENUE
1433	1080 MC DONALD AVENUE
1088086	492 4th Ave
1088127	273 MONROE STREET
1088269	1547 EAST 52 STREET
1088289	308 AVENUE U
1088349	218 RUTLEDGE STREET
1088358	85 LORIMER STREET
1088384	505 NEPTUNE AVENUE
1088417	330 WILSON AVENUE
1088440	2069 WEST 9 STREET
1088454	8870 17 AVENUE
1088569	2147 68 STREET
1088594	1926 EAST 14 STREET
1088618	242 EAST 89 STREET
1088651	1888 PITKIN AVENUE

```
1088670
                    472 17 STREET
1088700
         136 PROSPECT PARK WEST
1088706
               390 HALSEY STREET
1088747
             3920 LAUREL AVENUE
1088756
              556 ALABAMA AVENUE
1088758
             883 BEDFORD AVENUE
1088804
           1139 BUSHWICK AVENUE
1088863
               1553 OCEAN AVENUE
1088919
            433 LAFAYETTE AVENUE
1088946
               170 SOUTH 1 STREET
1088956
           196 GREENPOINT AVENUE
1088965
               407 MYRTLE AVENUE
1088997
               240 CROWN STREET
1089014
               172 TILLARY STREET
1089028
             1911 CHURCH AVENUE
1089096
                14 LAWTON STREET
22343 rows × 1 columns
```

#### In [82]:

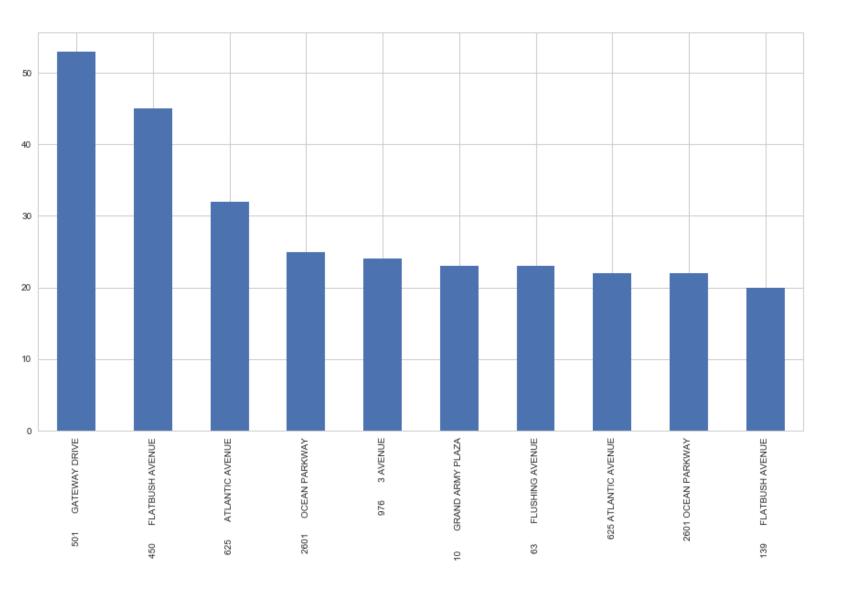
```
Out[82]:
```

```
GATEWAY DRIVE', '450 FLATBUSH AVENUE',
Index(['501
                ATLANTIC AVENUE', '2601
      625
                                           OCEAN PARKWAY',
                3 AVENUE', '10
      '976
                                     GRAND ARMY PLAZA',
                FLUSHING AVENUE', '625 ATLANTIC AVENUE',
      '63
      '2601 OCEAN PARKWAY', '139 FLATBUSH AVENUE'],
     dtype='object')
```

In [83]:

Out[83]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x119667e10>



## In [84]:

## In [85]:

## Out[85]:

1	UTICA AVENUE
3	JEFFERSON AVENUE
4	FOSTER AVENUE
7	LORING AVENUE
9	WEST 5 STREET
11	EAST 105 STREET
18	JUNIUS STREET
31	SCHENECTADY AVENUE
35	AVENUE I
37	LINDEN BOULEVARD
39	FLATBUSH AVENUE

45         WILSON AVENUE           47         NORTH 5 STREET           52         16 AVENUE           54         LINDEN BOULEVARD           60         HENDRIX STREET           64         FULTON STREET           66         GERRITSEN AVENUE           68         CORTELYOU ROAD           69         6 AVENUE           76         13 AVENUE           83         4 AVENUE           84         PARADE PLACE           86         61 STREET           87         16 AVENUE           104         AVENUE           105         3 STREET           116         9 AVENUE           119         GRAND AVENUE           119         GRAND AVENUE           119         GRAND AVENUE           1089145         CRAWFORD AVENUE           1089146         EAST 85 STREET           1089147         TROY AVENUE           1089158         67 STREET           1089154         BALTIC STREET           1089155         RUSSELL STREET           1089161         LOUIS PLACE           1089162         FRANKLIN AVENUE           1089163         VERNON AVENUE	47       NORTH 5 STREET         52       16 AVENUE         54       LINDEN BOULEVARD         60       HENDRIX STREET         64       FULTON STREET         66       GERRITSEN AVENUE         68       CORTELYOU ROAD         69       6 AVENUE         76       13 AVENUE         83       4 AVENUE         84       PARADE PLACE         86       61 STREET         87       16 AVENUE         104       AVENUE         106       53 STREET         116       9 AVENUE         119       GRAND AVENUE         1089145       CRAWFORD AVENUE         1089146       EAST 85 STREET         1089147       TROY AVENUE
52         16 AVENUE           54         LINDEN BOULEVARD           60         HENDRIX STREET           64         FULTON STREET           66         GERRITSEN AVENUE           68         CORTELYOU ROAD           69         6 AVENUE           76         13 AVENUE           83         4 AVENUE           84         PARADE PLACE           86         61 STREET           87         16 AVENUE           104         AVENUE           105         53 STREET           116         9 AVENUE           119         GRAND AVENUE           119         GRAND AVENUE           1089145         CRAWFORD AVENUE           1089146         EAST 85 STREET           1089147         TROY AVENUE           1089154         BALTIC STREET           1089155         RUSSELL STREET           1089156         RUSSELL STREET           1089157         LOUIS PLACE           1089168         VERNON AVENUE           1089169         FLUSHING AVENUE           1089170         WOODRUFF AVENUE           1089171         EAST 38 STREET           1089172         EAST 38 S	52       16 AVENUE         54       LINDEN BOULEVARD         60       HENDRIX STREET         64       FULTON STREET         66       GERRITSEN AVENUE         68       CORTELYOU ROAD         69       6 AVENUE         76       13 AVENUE         83       4 AVENUE         84       PARADE PLACE         86       61 STREET         87       16 AVENUE         104       AVENUE         105       53 STREET         116       9 AVENUE         119       GRAND AVENUE         1089145       CRAWFORD AVENUE         1089146       EAST 85 STREET         1089147       TROY AVENUE
54         LINDEN BOULEVARD           60         HENDRIX STREET           64         FULTON STREET           66         GERRITSEN AVENUE           68         CORTELYOU ROAD           69         6 AVENUE           76         13 AVENUE           83         4 AVENUE           84         PARADE PLACE           86         61 STREET           87         16 AVENUE           104         AVENUE           105         53 STREET           116         9 AVENUE           119         GRAND AVENUE           119         GRAND AVENUE           119         GRAND AVENUE           1089145         CRAWFORD AVENUE           1089146         EAST 85 STREET           1089147         TROY AVENUE           1089158         67 STREET           1089156         RUSSELL STREET           1089157         BALTIC STREET           1089162         FRANKLIN AVENUE           1089163         VERNON AVENUE           1089164         VERNON AVENUE           1089170         WOODRUFF AVENUE           1089171         EAST 93 STREET           1089172         EAST 38	54       LINDEN BOULEVARD         60       HENDRIX STREET         64       FULTON STREET         66       GERRITSEN AVENUE         68       CORTELYOU ROAD         69       6 AVENUE         76       13 AVENUE         83       4 AVENUE         84       PARADE PLACE         86       61 STREET         87       16 AVENUE         104       AVENUE         105       3 STREET         116       9 AVENUE         119       GRAND AVENUE         1089145       CRAWFORD AVENUE         1089146       EAST 85 STREET         1089147       TROY AVENUE
60 HENDRIX STREET 64 FULTON STREET 66 GERRITSEN AVENUE 68 CORTELYOU ROAD 69 6 AVENUE 76 13 AVENUE 83 4 AVENUE 84 PARADE PLACE 86 61 STREET 87 16 AVENUE 104 AVENUE 1106 53 STREET 116 9 AVENUE 119 GRAND AVENUE 119 GRAND AVENUE 119 GRAND AVENUE 119 AVENUE 11089145 CRAWFORD AVENUE 11089146 EAST 85 STREET 1089147 TROY AVENUE 1089154 BALTIC STREET 1089156 RUSSELL STREET 1089156 RUSSELL STREET 1089156 FANKLIN AVENUE 1089162 FRANKLIN AVENUE 1089162 FRANKLIN AVENUE 1089163 VERNON AVENUE 1089169 FLUSHING AVENUE 1089170 WOODRUFF AVENUE 1089171 EASTERN PARKWAY 1089172 EAST 38 STREET 1089177 EAST 93 STREET 1089177 EAST 93 STREET 1089179 CROOKE AVENUE 1089190 TERRACE PLACE 1089191 BLAKE AVENUE 108921 SHORE BOULEVARD 108921 SHORE BOULEVARD 1089220 NEW YORK AVENUE 1089221 RIVERDALE AVENUE 1089236 UNION STREET 1089236 UNION STREET 1089238 EAST 24 STREET 1089242 RIVERDALE AVENUE 1089243 NOSTRAND AVENUE	60 HENDRIX STREET 64 FULTON STREET 66 GERRITSEN AVENUE 68 CORTELYOU ROAD 69 6 AVENUE 76 13 AVENUE 83 4 AVENUE 84 PARADE PLACE 86 61 STREET 87 16 AVENUE 104 AVENUE 106 53 STREET 116 9 AVENUE 119 GRAND AVENUE 119 GRAND AVENUE 119 GRAND AVENUE 1089145 CRAWFORD AVENUE 1089146 EAST 85 STREET 1089147 TROY AVENUE
64 FULTON STREET 66 GERRITSEN AVENUE 68 CORTELYOU ROAD 69 6 AVENUE 76 13 AVENUE 83 4 AVENUE 84 PARADE PLACE 86 61 STREET 87 16 AVENUE 104 AVENUE 1106 53 STREET 116 9 AVENUE 119 GRAND AVENUE 119 GRAND AVENUE 119 GRAND AVENUE 119 AVENUE 11089145 CRAWFORD AVENUE 119 GRAND AVENUE 11089146 EAST 85 STREET 1089147 TROY AVENUE 1089154 BALTIC STREET 1089156 RUSSELL STREET 1089156 RUSSELL STREET 1089158 67 STREET 1089161 LOUIS PLACE 1089162 FRANKLIN AVENUE 1089163 VERNON AVENUE 1089164 FLUSHING AVENUE 1089169 FLUSHING AVENUE 1089170 WOODRUFF AVENUE 1089171 EASTERN PARKWAY 1089172 EAST 38 STREET 1089177 EAST 93 STREET 1089177 EAST 93 STREET 1089179 CROOKE AVENUE 1089190 TERRACE PLACE 1089191 BLAKE AVENUE 108921 SHORE BOULEVARD 108921 BLAKE AVENUE 1089220 NEW YORK AVENUE 1089221 RIVERDALE AVENUE 1089236 UNION STREET 1089236 UNION STREET 1089242 RIVERDALE AVENUE 1089243 NOSTRAND AVENUE	64       FULTON STREET         66       GERRITSEN AVENUE         68       CORTELYOU ROAD         69       6 AVENUE         76       13 AVENUE         83       4 AVENUE         84       PARADE PLACE         86       61 STREET         87       16 AVENUE         104       AVENUE         106       53 STREET         116       9 AVENUE         119       GRAND AVENUE         1089145       CRAWFORD AVENUE         1089146       EAST 85 STREET         1089147       TROY AVENUE
GERRITSEN AVENUE 68	GERRITSEN AVENUE CORTELYOU ROAD G9 G AVENUE T6 AVENUE T6 AVENUE T8 AVENUE TA AVENUE TA AVENUE TA
68 CORTELYOU ROAD 69 6 AVENUE 76 13 AVENUE 83 4 AVENUE 84 PARADE PLACE 86 61 STREET 87 16 AVENUE 104 AVENUE I 106 53 STREET 116 9 AVENUE 119 GRAND AVENUE 119 GRAND AVENUE 119 GRAND AVENUE 11089145 CRAWFORD AVENUE 11089146 EAST 85 STREET 11089147 TROY AVENUE 1089154 BALTIC STREET 1089156 RUSSELL STREET 1089158 67 STREET 1089161 LOUIS PLACE 1089162 FRANKLIN AVENUE 1089162 FRANKLIN AVENUE 1089169 FLUSHING AVENUE 1089169 FLUSHING AVENUE 1089170 WOODRUFF AVENUE 1089171 EASTERN PARKWAY 1089171 EASTERN PARKWAY 1089172 EAST 38 STREET 1089177 EAST 93 STREET 1089179 CROOKE AVENUE 1089190 TERRACE PLACE 1089191 PACIFIC STREET 1089193 PACIFIC STREET 1089201 SHORE BOULEVARD 1089211 BLAKE AVENUE 1089220 NEW YORK AVENUE 1089220 EAST 105 STREET 1089236 UNION STREET 1089236 UNION STREET 1089238 EAST 24 STREET 1089242 RIVERDALE AVENUE 1089243 NOSTRAND AVENUE	CORTELYOU ROAD 69 6 AVENUE 76 13 AVENUE 83 4 AVENUE 84 PARADE PLACE 86 61 STREET 87 16 AVENUE 104 AVENUE 1106 53 STREET 116 9 AVENUE 119 GRAND AVENUE 119 GRAND AVENUE 119 CRAWFORD AVENUE 1089145 EAST 85 STREET 1089147 TROY AVENUE
69 6 AVENUE 76 13 AVENUE 83 4 AVENUE 84 PARADE PLACE 86 61 STREET 87 16 AVENUE 104 AVENUE 1106 53 STREET 116 9 AVENUE 119 GRAND AVENUE 119 GRAND AVENUE 119 GRAND AVENUE 1089145 CRAWFORD AVENUE 1089146 EAST 85 STREET 1089147 TROY AVENUE 1089154 BALTIC STREET 1089156 RUSSELL STREET 1089158 67 STREET 1089161 LOUIS PLACE 1089162 FRANKLIN AVENUE 1089168 VERNON AVENUE 1089169 FLUSHING AVENUE 1089170 WOODRUFF AVENUE 1089171 EASTERN PARKWAY 1089171 EASTERN PARKWAY 1089172 EAST 38 STREET 1089177 EAST 93 STREET 1089179 CROOKE AVENUE 1089190 TERRACE PLACE 1089191 FARACE PLACE 1089192 EAST 10 STREET 1089193 PACIFIC STREET 1089201 SHORE BOULEVARD 1089221 BLAKE AVENUE 1089229 EAST 105 STREET 1089236 UNION STREET 1089238 EAST 24 STREET 1089242 RIVERDALE AVENUE 1089243 NOSTRAND AVENUE	69 6 AVENUE 76 13 AVENUE 83 4 AVENUE 84 PARADE PLACE 86 61 STREET 87 16 AVENUE 104 AVENUE I 106 53 STREET 116 9 AVENUE 119 GRAND AVENUE 119 GRAND AVENUE 1089145 CRAWFORD AVENUE 1089146 EAST 85 STREET 1089147 TROY AVENUE
76         13 AVENUE           83         4 AVENUE           84         PARADE PLACE           86         61 STREET           87         16 AVENUE           104         AVENUE I           106         53 STREET           116         9 AVENUE           119         GRAND AVENUE           1089145         CRAWFORD AVENUE           1089146         EAST 85 STREET           1089147         TROY AVENUE           1089154         BALTIC STREET           1089155         RUSSELL STREET           1089156         RUSSELL STREET           1089161         LOUIS PLACE           1089162         FRANKLIN AVENUE           1089163         VERNON AVENUE           1089164         FLUSHING AVENUE           1089165         WOODRUFF AVENUE           1089166         FLUSHING AVENUE           1089170         WOODRUFF AVENUE           1089171         EAST 38 STREET           1089172         EAST 38 STREET           1089173         EAST 93 STREET           1089194         TERRACE PLACE           1089195         FAST 10 STREET           1089190         TERRACE PLACE	76 13 AVENUE 83 4 AVENUE 84 PARADE PLACE 86 61 STREET 87 16 AVENUE 104 AVENUE I 106 53 STREET 116 9 AVENUE 119 GRAND AVENUE 119 GRAND AVENUE 119 CRAWFORD AVENUE 1089145 EAST 85 STREET 1089147 TROY AVENUE
83 4 AVENUE 84 PARADE PLACE 86 61 STREET 87 16 AVENUE 104 AVENUE I 106 53 STREET 116 9 AVENUE 119 GRAND AVENUE 119 GRAND AVENUE 1089145 CRAWFORD AVENUE 1089147 TROY AVENUE 1089154 BALTIC STREET 1089156 RUSSELL STREET 1089158 67 STREET 1089161 LOUIS PLACE 1089162 FRANKLIN AVENUE 1089162 FRANKLIN AVENUE 1089168 VERNON AVENUE 1089169 FLUSHING AVENUE 1089170 WOODRUFF AVENUE 1089171 EASTERN PARKWAY 1089171 EASTERN PARKWAY 1089172 EAST 38 STREET 1089177 EAST 93 STREET 1089177 CROOKE AVENUE 1089190 TERRACE PLACE 1089191 PACIFIC STREET 1089211 BLAKE AVENUE 1089220 NEW YORK AVENUE 1089221 SHORE BOULEVARD 1089221 BLAKE AVENUE 1089223 EAST 10 STREET 1089236 UNION STREET 1089236 UNION STREET 1089238 EAST 24 STREET	83 4 AVENUE 84 PARADE PLACE 86 61 STREET 87 16 AVENUE 104 AVENUE I 106 53 STREET 116 9 AVENUE 119 GRAND AVENUE 119 GRAND AVENUE 1089145 CRAWFORD AVENUE 1089146 EAST 85 STREET 1089147 TROY AVENUE
84 PARADE PLACE 86 61 STREET 87 16 AVENUE 104 AVENUE I 106 53 STREET 116 9 AVENUE 119 GRAND AVENUE 119 GRAND AVENUE 1089145 CRAWFORD AVENUE 1089146 EAST 85 STREET 1089154 BALTIC STREET 1089156 RUSSELL STREET 1089158 67 STREET 1089161 LOUIS PLACE 1089162 FRANKLIN AVENUE 1089162 FRANKLIN AVENUE 1089169 FLUSHING AVENUE 1089169 FLUSHING AVENUE 1089170 WOODRUFF AVENUE 1089171 EASTERN PARKWAY 1089171 EASTERN PARKWAY 1089172 EAST 38 STREET 1089177 CROOKE AVENUE 1089179 CROOKE AVENUE 1089190 TERRACE PLACE 1089191 PACIFIC STREET 1089211 BLAKE AVENUE 1089220 NEW YORK AVENUE 1089221 SHORE BOULEVARD 1089221 BLAKE AVENUE 1089223 EAST 10 STREET 1089236 UNION STREET 1089236 UNION STREET 1089238 EAST 24 STREET 1089242 RIVERDALE AVENUE 1089243 NOSTRAND AVENUE	84 PARADE PLACE 86 61 STREET 87 16 AVENUE 104 AVENUE I 106 53 STREET 116 9 AVENUE 119 GRAND AVENUE 119 CRAWFORD AVENUE 1089145 CRAWFORD AVENUE 1089146 EAST 85 STREET 1089147 TROY AVENUE
86 61 STREET 87 16 AVENUE 104 AVENUE I 106 53 STREET 116 9 AVENUE 119 GRAND AVENUE 119 GRAND AVENUE 1089145 CRAWFORD AVENUE 1089146 EAST 85 STREET 1089147 TROY AVENUE 1089154 BALTIC STREET 1089156 RUSSELL STREET 1089158 67 STREET 1089161 LOUIS PLACE 1089162 FRANKLIN AVENUE 1089169 FLUSHING AVENUE 1089169 FLUSHING AVENUE 1089170 WOODRUFF AVENUE 1089171 EAST 38 STREET 1089171 EAST 38 STREET 1089177 EAST 93 STREET 1089177 CROOKE AVENUE 1089190 TERRACE PLACE 1089191 CROOKE AVENUE 1089191 FACIFIC STREET 1089192 FAST 10 STREET 1089211 BLAKE AVENUE 1089220 NEW YORK AVENUE 1089221 SHORE BOULEVARD 1089221 BLAKE AVENUE 1089223 EAST 105 STREET 1089236 UNION STREET 1089236 UNION STREET 1089238 EAST 24 STREET 1089242 RIVERDALE AVENUE 1089243 NOSTRAND AVENUE	86 61 STREET 87 16 AVENUE 104 AVENUE I 106 53 STREET 116 9 AVENUE 119 GRAND AVENUE 119 CRAWFORD AVENUE 1089145 CRAWFORD AVENUE 1089146 EAST 85 STREET 1089147 TROY AVENUE
87 16 AVENUE 104 AVENUE I 106 53 STREET 116 9 AVENUE 119 GRAND AVENUE 119 GRAND AVENUE 119 GRAND AVENUE 1089145 CRAWFORD AVENUE 1089147 TROY AVENUE 1089154 BALTIC STREET 1089156 RUSSELL STREET 1089158 67 STREET 1089161 LOUIS PLACE 1089162 FRANKLIN AVENUE 1089162 FRANKLIN AVENUE 1089169 FLUSHING AVENUE 1089170 WOODRUFF AVENUE 1089171 EASTERN PARKWAY 1089172 EAST 38 STREET 1089177 EAST 93 STREET 1089177 CROOKE AVENUE 1089190 TERRACE PLACE 1089191 PACIFIC STREET 1089191 BLAKE AVENUE 1089220 NEW YORK AVENUE 1089221 BLAKE AVENUE 1089221 SHORE BOULEVARD 1089221 BLAKE AVENUE 1089222 RIVERDALE AVENUE 1089233 EAST 24 STREET 1089244 RIVERDALE AVENUE 1089244 RIVERDALE AVENUE 1089244 RIVERDALE AVENUE 1089244 RIVERDALE AVENUE	87 16 AVENUE 104 AVENUE I 106 53 STREET 116 9 AVENUE 119 GRAND AVENUE 119 CRAWFORD AVENUE 1089145 CRAWFORD AVENUE 1089146 EAST 85 STREET 1089147 TROY AVENUE
104 AVENUE I 106 53 STREET 116 9 AVENUE 119 GRAND AVENUE 119 CRAWFORD AVENUE 1089145 CRAWFORD AVENUE 1089146 EAST 85 STREET 1089154 BALTIC STREET 1089156 RUSSELL STREET 1089158 67 STREET 1089161 LOUIS PLACE 1089162 FRANKLIN AVENUE 1089168 VERNON AVENUE 1089169 FLUSHING AVENUE 1089170 WOODRUFF AVENUE 1089171 EASTERN PARKWAY 1089171 EASTERN PARKWAY 1089172 EAST 38 STREET 1089177 EAST 93 STREET 1089177 CROOKE AVENUE 1089190 TERRACE PLACE 1089191 PACIFIC STREET 1089191 PACIFIC STREET 1089201 SHORE BOULEVARD 1089211 BLAKE AVENUE 1089220 NEW YORK AVENUE 1089220 NEW YORK AVENUE 1089221 EAST 10 STREET 1089222 RIVERDALE AVENUE 1089223 EAST 24 STREET 1089234 RIVERDALE AVENUE 1089243 NOSTRAND AVENUE	104 AVENUE I 106 53 STREET 116 9 AVENUE 119 GRAND AVENUE 1089145 CRAWFORD AVENUE 1089146 EAST 85 STREET 1089147 TROY AVENUE
106 53 STREET 116 9 AVENUE 119 GRAND AVENUE  1089145 CRAWFORD AVENUE 1089147 TROY AVENUE 1089154 BALTIC STREET 1089156 RUSSELL STREET 1089158 67 STREET 1089161 LOUIS PLACE 1089162 FRANKLIN AVENUE 1089169 FLUSHING AVENUE 1089170 WOODRUFF AVENUE 1089171 EASTERN PARKWAY 1089171 EASTERN PARKWAY 1089172 EAST 38 STREET 1089179 CROOKE AVENUE 1089179 CROOKE AVENUE 1089190 TERRACE PLACE 1089191 PACIFIC STREET 1089201 SHORE BOULEVARD 1089211 BLAKE AVENUE 1089220 NEW YORK AVENUE 1089229 EAST 105 STREET 1089236 UNION STREET 1089236 UNION STREET 1089236 UNION STREET 1089242 RIVERDALE AVENUE 1089243 NOSTRAND AVENUE	106 53 STREET 116 9 AVENUE 119 GRAND AVENUE 1089145 CRAWFORD AVENUE 1089146 EAST 85 STREET 1089147 TROY AVENUE
116 9 AVENUE 119 GRAND AVENUE  1089145 CRAWFORD AVENUE 1089146 EAST 85 STREET 1089147 TROY AVENUE 1089154 BALTIC STREET 1089156 RUSSELL STREET 1089158 67 STREET 1089161 LOUIS PLACE 1089162 FRANKLIN AVENUE 1089169 FLUSHING AVENUE 1089170 WOODRUFF AVENUE 1089171 EASTERN PARKWAY 1089171 EASTERN PARKWAY 1089172 EAST 38 STREET 1089177 EAST 93 STREET 1089179 CROOKE AVENUE 1089190 TERRACE PLACE 1089192 EAST 10 STREET 1089193 PACIFIC STREET 1089201 SHORE BOULEVARD 1089211 BLAKE AVENUE 1089220 NEW YORK AVENUE 1089229 EAST 105 STREET 1089236 UNION STREET 1089236 UNION STREET 1089238 EAST 24 STREET 1089242 RIVERDALE AVENUE 1089243 NOSTRAND AVENUE	116 9 AVENUE 119 GRAND AVENUE  1089145 CRAWFORD AVENUE 1089146 EAST 85 STREET 1089147 TROY AVENUE
119 GRAND AVENUE  1089145 CRAWFORD AVENUE 1089146 EAST 85 STREET 1089147 TROY AVENUE 1089154 BALTIC STREET 1089156 RUSSELL STREET 1089158 67 STREET 1089161 LOUIS PLACE 1089162 FRANKLIN AVENUE 1089168 VERNON AVENUE 1089169 FLUSHING AVENUE 1089170 WOODRUFF AVENUE 1089171 EASTERN PARKWAY 1089172 EAST 38 STREET 1089177 EAST 93 STREET 1089179 CROOKE AVENUE 1089190 TERRACE PLACE 1089192 EAST 10 STREET 1089193 PACIFIC STREET 1089201 SHORE BOULEVARD 1089211 BLAKE AVENUE 1089220 NEW YORK AVENUE 1089220 NEW YORK AVENUE 1089221 SHORE BOULEVARD 1089221 BLAKE AVENUE 1089223 EAST 105 STREET 1089236 UNION STREET 1089238 EAST 24 STREET 1089242 RIVERDALE AVENUE 1089243 NOSTRAND AVENUE	119 GRAND AVENUE  1089145 CRAWFORD AVENUE 1089146 EAST 85 STREET 1089147 TROY AVENUE
1089145 CRAWFORD AVENUE 1089146 EAST 85 STREET 1089147 TROY AVENUE 1089154 BALTIC STREET 1089156 RUSSELL STREET 1089158 67 STREET 1089161 LOUIS PLACE 1089162 FRANKLIN AVENUE 1089169 FLUSHING AVENUE 1089170 WOODRUFF AVENUE 1089171 EASTERN PARKWAY 1089172 EAST 38 STREET 1089177 CROOKE AVENUE 1089179 CROOKE AVENUE 1089190 TERRACE PLACE 1089190 TERRACE PLACE 1089191 PACIFIC STREET 1089191 SHORE BOULEVARD 1089221 BLAKE AVENUE 1089221 BLAKE AVENUE 1089223 EAST 10 STREET 1089236 UNION STREET 1089236 UNION STREET 1089238 EAST 24 STREET 1089242 RIVERDALE AVENUE 1089243 NOSTRAND AVENUE	1089145 CRAWFORD AVENUE 1089146 EAST 85 STREET 1089147 TROY AVENUE
1089146       EAST 85 STREET         1089147       TROY AVENUE         1089154       BALTIC STREET         1089156       RUSSELL STREET         1089158       67 STREET         1089161       LOUIS PLACE         1089162       FRANKLIN AVENUE         1089168       VERNON AVENUE         1089169       FLUSHING AVENUE         1089170       WOODRUFF AVENUE         1089171       EASTERN PARKWAY         1089172       EAST 38 STREET         1089177       EAST 93 STREET         1089179       CROOKE AVENUE         1089190       TERRACE PLACE         1089191       EAST 10 STREET         1089201       SHORE BOULEVARD         1089211       BLAKE AVENUE         1089220       NEW YORK AVENUE         10892236       UNION STREET         1089236       UNION STREET         1089237       EAST 24 STREET         1089238       EAST 24 STREET         1089242       RIVERDALE AVENUE         1089243       NOSTRAND AVENUE         1089246       LINCOLN PLACE	1089146 EAST 85 STREET 1089147 TROY AVENUE
1089146       EAST 85 STREET         1089147       TROY AVENUE         1089154       BALTIC STREET         1089156       RUSSELL STREET         1089158       67 STREET         1089161       LOUIS PLACE         1089162       FRANKLIN AVENUE         1089168       VERNON AVENUE         1089169       FLUSHING AVENUE         1089170       WOODRUFF AVENUE         1089171       EASTERN PARKWAY         1089172       EAST 38 STREET         1089177       EAST 93 STREET         1089179       CROOKE AVENUE         1089190       TERRACE PLACE         1089191       EAST 10 STREET         1089201       SHORE BOULEVARD         1089211       BLAKE AVENUE         1089220       NEW YORK AVENUE         10892236       UNION STREET         1089236       UNION STREET         1089237       EAST 24 STREET         1089238       EAST 24 STREET         1089242       RIVERDALE AVENUE         1089243       NOSTRAND AVENUE         1089246       LINCOLN PLACE	1089146 EAST 85 STREET 1089147 TROY AVENUE
1089147         TROY AVENUE           1089154         BALTIC STREET           1089156         RUSSELL STREET           1089158         67 STREET           1089161         LOUIS PLACE           1089162         FRANKLIN AVENUE           1089168         VERNON AVENUE           1089169         FLUSHING AVENUE           1089170         WOODRUFF AVENUE           1089171         EASTERN PARKWAY           1089172         EAST 38 STREET           1089177         EAST 93 STREET           1089179         CROOKE AVENUE           1089190         TERRACE PLACE           1089192         EAST 10 STREET           1089291         SHORE BOULEVARD           1089201         SHORE BOULEVARD           1089211         BLAKE AVENUE           1089229         EAST 105 STREET           1089229         EAST 105 STREET           1089236         UNION STREET           1089238         EAST 24 STREET           1089242         RIVERDALE AVENUE           1089243         NOSTRAND AVENUE           1089246         LINCOLN PLACE	1089147 TROY AVENUE
1089154         BALTIC STREET           1089156         RUSSELL STREET           1089158         67 STREET           1089161         LOUIS PLACE           1089162         FRANKLIN AVENUE           1089168         VERNON AVENUE           1089169         FLUSHING AVENUE           1089170         WOODRUFF AVENUE           1089171         EASTERN PARKWAY           1089172         EAST 38 STREET           1089177         EAST 93 STREET           1089179         CROOKE AVENUE           1089190         TERRACE PLACE           1089192         EAST 10 STREET           1089193         PACIFIC STREET           1089201         SHORE BOULEVARD           1089211         BLAKE AVENUE           1089229         EAST 105 STREET           1089229         EAST 105 STREET           1089236         UNION STREET           1089237         EAST 24 STREET           1089238         EAST 24 STREET           1089242         RIVERDALE AVENUE           1089243         NOSTRAND AVENUE           1089246         LINCOLN PLACE	
1089156       RUSSELL STREET         1089158       67 STREET         1089161       LOUIS PLACE         1089162       FRANKLIN AVENUE         1089168       VERNON AVENUE         1089169       FLUSHING AVENUE         1089170       WOODRUFF AVENUE         1089171       EASTERN PARKWAY         1089172       EAST 38 STREET         1089177       EAST 93 STREET         1089179       CROOKE AVENUE         1089190       TERRACE PLACE         1089192       EAST 10 STREET         1089291       SHORE BOULEVARD         1089211       BLAKE AVENUE         1089220       NEW YORK AVENUE         1089229       EAST 105 STREET         1089236       UNION STREET         1089238       EAST 24 STREET         1089242       RIVERDALE AVENUE         1089243       NOSTRAND AVENUE         1089246       LINCOLN PLACE	1089154 BALTIC STREET
1089158       67 STREET         1089161       LOUIS PLACE         1089162       FRANKLIN AVENUE         1089168       VERNON AVENUE         1089169       FLUSHING AVENUE         1089170       WOODRUFF AVENUE         1089171       EASTERN PARKWAY         1089172       EAST 38 STREET         1089177       EAST 93 STREET         1089179       CROOKE AVENUE         1089190       TERRACE PLACE         1089192       EAST 10 STREET         1089293       PACIFIC STREET         1089201       SHORE BOULEVARD         1089211       BLAKE AVENUE         1089229       EAST 105 STREET         1089229       EAST 105 STREET         1089236       UNION STREET         1089238       EAST 24 STREET         1089242       RIVERDALE AVENUE         1089243       NOSTRAND AVENUE         1089246       LINCOLN PLACE	TOODIS DIMITO DINDE
1089161         LOUIS PLACE           1089162         FRANKLIN AVENUE           1089168         VERNON AVENUE           1089169         FLUSHING AVENUE           1089170         WOODRUFF AVENUE           1089171         EASTERN PARKWAY           1089172         EAST 38 STREET           1089177         EAST 93 STREET           1089179         CROOKE AVENUE           1089190         TERRACE PLACE           1089192         EAST 10 STREET           1089293         PACIFIC STREET           1089201         SHORE BOULEVARD           1089211         BLAKE AVENUE           1089220         NEW YORK AVENUE           1089229         EAST 105 STREET           1089236         UNION STREET           1089238         EAST 24 STREET           1089242         RIVERDALE AVENUE           1089243         NOSTRAND AVENUE           1089246         LINCOLN PLACE	1089156 RUSSELL STREET
1089162         FRANKLIN AVENUE           1089168         VERNON AVENUE           1089169         FLUSHING AVENUE           1089170         WOODRUFF AVENUE           1089171         EASTERN PARKWAY           1089172         EAST 38 STREET           1089177         EAST 93 STREET           1089179         CROOKE AVENUE           1089190         TERRACE PLACE           1089192         EAST 10 STREET           1089193         PACIFIC STREET           1089201         SHORE BOULEVARD           1089211         BLAKE AVENUE           1089220         NEW YORK AVENUE           1089229         EAST 105 STREET           1089236         UNION STREET           1089238         EAST 24 STREET           1089242         RIVERDALE AVENUE           1089243         NOSTRAND AVENUE           1089246         LINCOLN PLACE	1089158 67 STREET
1089168         VERNON AVENUE           1089169         FLUSHING AVENUE           1089170         WOODRUFF AVENUE           1089171         EASTERN PARKWAY           1089172         EAST 38 STREET           1089177         EAST 93 STREET           1089179         CROOKE AVENUE           1089190         TERRACE PLACE           1089192         EAST 10 STREET           1089193         PACIFIC STREET           1089201         SHORE BOULEVARD           1089211         BLAKE AVENUE           1089220         NEW YORK AVENUE           1089229         EAST 105 STREET           1089236         UNION STREET           1089238         EAST 24 STREET           1089242         RIVERDALE AVENUE           1089243         NOSTRAND AVENUE           1089246         LINCOLN PLACE	1089161 LOUIS PLACE
1089169       FLUSHING AVENUE         1089170       WOODRUFF AVENUE         1089171       EASTERN PARKWAY         1089172       EAST 38 STREET         1089177       EAST 93 STREET         1089179       CROOKE AVENUE         1089190       TERRACE PLACE         1089192       EAST 10 STREET         1089193       PACIFIC STREET         1089201       SHORE BOULEVARD         1089211       BLAKE AVENUE         1089220       NEW YORK AVENUE         1089229       EAST 105 STREET         1089236       UNION STREET         1089238       EAST 24 STREET         1089242       RIVERDALE AVENUE         1089243       NOSTRAND AVENUE         1089246       LINCOLN PLACE	1089162 FRANKLIN AVENUE
1089170       WOODRUFF AVENUE         1089171       EASTERN PARKWAY         1089172       EAST 38 STREET         1089177       EAST 93 STREET         1089179       CROOKE AVENUE         1089190       TERRACE PLACE         1089192       EAST 10 STREET         1089193       PACIFIC STREET         1089201       SHORE BOULEVARD         1089211       BLAKE AVENUE         1089220       NEW YORK AVENUE         1089229       EAST 105 STREET         1089236       UNION STREET         1089238       EAST 24 STREET         1089242       RIVERDALE AVENUE         1089243       NOSTRAND AVENUE         1089246       LINCOLN PLACE	1089168 VERNON AVENUE
1089171       EASTERN PARKWAY         1089172       EAST 38 STREET         1089177       EAST 93 STREET         1089179       CROOKE AVENUE         1089190       TERRACE PLACE         1089192       EAST 10 STREET         1089193       PACIFIC STREET         1089201       SHORE BOULEVARD         1089211       BLAKE AVENUE         1089220       NEW YORK AVENUE         1089229       EAST 105 STREET         1089236       UNION STREET         1089238       EAST 24 STREET         1089242       RIVERDALE AVENUE         1089243       NOSTRAND AVENUE         1089246       LINCOLN PLACE	1089169 FLUSHING AVENUE
1089172       EAST 38 STREET         1089177       EAST 93 STREET         1089179       CROOKE AVENUE         1089190       TERRACE PLACE         1089192       EAST 10 STREET         1089193       PACIFIC STREET         1089201       SHORE BOULEVARD         1089211       BLAKE AVENUE         1089220       NEW YORK AVENUE         1089229       EAST 105 STREET         1089236       UNION STREET         1089238       EAST 24 STREET         1089242       RIVERDALE AVENUE         1089243       NOSTRAND AVENUE         1089246       LINCOLN PLACE	1089170 WOODRUFF AVENUE
1089177       EAST 93 STREET         1089179       CROOKE AVENUE         1089190       TERRACE PLACE         1089192       EAST 10 STREET         1089193       PACIFIC STREET         1089201       SHORE BOULEVARD         1089211       BLAKE AVENUE         1089220       NEW YORK AVENUE         1089229       EAST 105 STREET         1089236       UNION STREET         1089238       EAST 24 STREET         1089242       RIVERDALE AVENUE         1089243       NOSTRAND AVENUE         1089246       LINCOLN PLACE	1089171 EASTERN PARKWAY
1089179       CROOKE AVENUE         1089190       TERRACE PLACE         1089192       EAST 10 STREET         1089193       PACIFIC STREET         1089201       SHORE BOULEVARD         1089211       BLAKE AVENUE         1089220       NEW YORK AVENUE         1089229       EAST 105 STREET         1089236       UNION STREET         1089238       EAST 24 STREET         1089242       RIVERDALE AVENUE         1089243       NOSTRAND AVENUE         1089246       LINCOLN PLACE	1089172 EAST 38 STREET
1089190       TERRACE PLACE         1089192       EAST 10 STREET         1089193       PACIFIC STREET         1089201       SHORE BOULEVARD         1089211       BLAKE AVENUE         1089220       NEW YORK AVENUE         1089229       EAST 105 STREET         1089236       UNION STREET         1089238       EAST 24 STREET         1089242       RIVERDALE AVENUE         1089243       NOSTRAND AVENUE         1089246       LINCOLN PLACE	1089177 EAST 93 STREET
1089192       EAST 10 STREET         1089193       PACIFIC STREET         1089201       SHORE BOULEVARD         1089211       BLAKE AVENUE         1089220       NEW YORK AVENUE         1089229       EAST 105 STREET         1089236       UNION STREET         1089238       EAST 24 STREET         1089242       RIVERDALE AVENUE         1089243       NOSTRAND AVENUE         1089246       LINCOLN PLACE	1089179 CROOKE AVENUE
1089192       EAST 10 STREET         1089193       PACIFIC STREET         1089201       SHORE BOULEVARD         1089211       BLAKE AVENUE         1089220       NEW YORK AVENUE         1089229       EAST 105 STREET         1089236       UNION STREET         1089238       EAST 24 STREET         1089242       RIVERDALE AVENUE         1089243       NOSTRAND AVENUE         1089246       LINCOLN PLACE	1089190 TERRACE PLACE
1089193       PACIFIC STREET         1089201       SHORE BOULEVARD         1089211       BLAKE AVENUE         1089220       NEW YORK AVENUE         1089229       EAST 105 STREET         1089236       UNION STREET         1089238       EAST 24 STREET         1089242       RIVERDALE AVENUE         1089243       NOSTRAND AVENUE         1089246       LINCOLN PLACE	1089192 EAST 10 STREET
1089211       BLAKE AVENUE         1089220       NEW YORK AVENUE         1089229       EAST 105 STREET         1089236       UNION STREET         1089238       EAST 24 STREET         1089242       RIVERDALE AVENUE         1089243       NOSTRAND AVENUE         1089246       LINCOLN PLACE	
1089211       BLAKE AVENUE         1089220       NEW YORK AVENUE         1089229       EAST 105 STREET         1089236       UNION STREET         1089238       EAST 24 STREET         1089242       RIVERDALE AVENUE         1089243       NOSTRAND AVENUE         1089246       LINCOLN PLACE	1089201 SHORE BOULEVARD
1089220       NEW YORK AVENUE         1089229       EAST 105 STREET         1089236       UNION STREET         1089238       EAST 24 STREET         1089242       RIVERDALE AVENUE         1089243       NOSTRAND AVENUE         1089246       LINCOLN PLACE	
1089229       EAST 105 STREET         1089236       UNION STREET         1089238       EAST 24 STREET         1089242       RIVERDALE AVENUE         1089243       NOSTRAND AVENUE         1089246       LINCOLN PLACE	
1089236       UNION STREET         1089238       EAST 24 STREET         1089242       RIVERDALE AVENUE         1089243       NOSTRAND AVENUE         1089246       LINCOLN PLACE	
1089238       EAST 24 STREET         1089242       RIVERDALE AVENUE         1089243       NOSTRAND AVENUE         1089246       LINCOLN PLACE	
1089242 RIVERDALE AVENUE 1089243 NOSTRAND AVENUE 1089246 LINCOLN PLACE	
1089243 NOSTRAND AVENUE 1089246 LINCOLN PLACE	
1089246 LINCOLN PLACE	
ا اللكانا به الكلكانا	1089249 EAST 2 STREET
1089257 DITMAS AVENUE	
1089264 BROADWAY	Name: cross street name, Length
1089264 RROADWAY	

Name: cross\_street\_name, Length: 220984, dtype: object

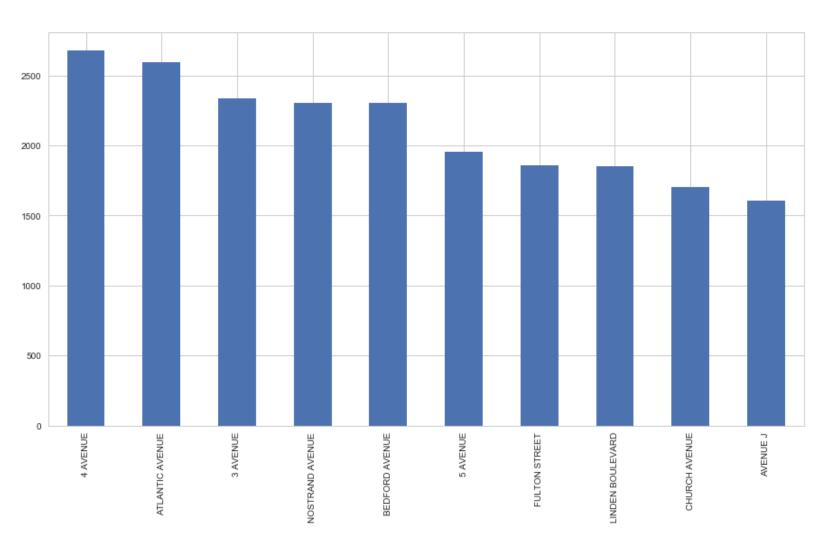
```
In [86]:
```

#### In [180]:

dtype='object')

#### Out[180]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x12e8c1860>



In [88]:

In [89]:

```
In [90]:
Out[90]:
contributing factor vehicle 1
                                                         contributing f
actor vehicle 1
Accelerator Defective
                                                         Accelerator De
fective
                                               19
                                                         Aggressive Dri
Aggressive Driving/Road Rage
ving/Road Rage
                                               68
                                                         Alcohol Involv
Alcohol Involvement
                                              196
ement
Animals Action
                                                         Animals Action
24
Backing Unsafely
                                                         Backing Unsafe
ly
                                              1500
Brakes Defective
                                                         Brakes Defecti
                                                54
Cell Phone (hand-held)
                                                         Cell Phone (ha
nd-held)
                                                 7
Cell Phone (hands-free)
                                                         Cell Phone (ha
nds-free)
                                                 1
In [91]:
In [147]:
In [148]:
Out[148]:
Index(['1 AVENUE', '1 COURT', '1 PLACE', '1 STREET', '10 AVENUE', '10
STREET',
       '100 STREET', '101 STREET', '104 STREET', '11 AVENUE',
       'saint johns place', 'schroeders avenue', 'skillman street',
       'south 5th street', 'south conduit blvd', 'south market street'
       'st edwards street', 'thomas s boyland street', 'utica avenue',
       'west 3rd'],
      dtype='object', name='on street name', length=1798)
In [145]:
```

οαε[145].	
ATLANTIC AVENUE	2956
FLATBUSH AVENUE	2123
BEDFORD AVENUE	1410
OCEAN PARKWAY	1404
NOSTRAND AVENUE	1359
CONEY ISLAND AVENUE	1244
3 AVENUE	1181
UTICA AVENUE	1164
4 AVENUE	1099
EASTERN PARKWAY	1073
KINGS HIGHWAY	1070
LINDEN BOULEVARD	1048
OCEAN AVENUE	942
FULTON STREET	932
FLATBUSH AVENUE EXTENSION	881
86 STREET	815
TILLARY STREET	768
BROADWAY	749
65 STREET	749
FLUSHING AVENUE	744
	. – -
CHURCH AVENUE	724
BUSHWICK AVENUE	716
AVENUE U	700
RALPH AVENUE	643
5 AVENUE	634
PENNSYLVANIA AVENUE	630
METROPOLITAN AVENUE	574
FLATLANDS AVENUE	574
MYRTLE AVENUE	553
ROGERS AVENUE	546
CUMNED AVENUE	• • •
SUMNER AVENUE	1
5 ave	1
LANDIS COURT	1
FAIRVIEW PLACE	1
KINGLAND AVENUE	1
THOMAS S BOYLAND STREET	1
MARCUS GARVEY AVENUE	1
south 5th street	1
EVERGREEN AVE	1
FLATBUSH AVE	1
GERALD COURT	1
OLD MILL ROAD	1
W 5th St	1
KRIER PLACE	1
B AVENUE	1
W 3rd St	1
SOUTHGATE COURT	1
JACKSON PLACE	1
BROOKLYN BATTERY TUNNEL	1
20 LANE	1
DAHLGREEN PLACE	1

```
south conduit blvd
                                  1
                                  1
MC KENNY STREET
TENEYCK STREET
                                  1
MORTON STREET
                                  1
                                  1
DEVON AVENUE
                                  1
SEIGAL STREET
                                  1
VANSICLEN AVENUE
Name: on_street_name, Length: 1562, dtype: int64
In [168]:
Out[168]:
on_street_name
                        363
3 AVENUE
4 AVENUE
                        376
ATLANTIC AVENUE
                        827
                        597
BEDFORD AVENUE
CONEY ISLAND AVENUE
                        384
EASTERN PARKWAY
                        442
FLATBUSH AVENUE
                        632
NOSTRAND AVENUE
                        528
OCEAN PARKWAY
                        450
                        508
UTICA AVENUE
Name: number of persons injured, dtype: int64
In [169]:
Out[169]:
on street name
3 AVENUE
                        4
4 AVENUE
                        3
                        7
ATLANTIC AVENUE
BEDFORD AVENUE
                        4
                        2
CONEY ISLAND AVENUE
                        3
EASTERN PARKWAY
                        2
FLATBUSH AVENUE
                        0
NOSTRAND AVENUE
OCEAN PARKWAY
                        6
                        2
UTICA AVENUE
Name: number_of_persons_killed, dtype: int64
```

1

W 9th St

RIDGEWOOD PLACE

```
In [303]:
Out[303]:
                    number_of_persons_injured
cross_street_name
1 AVENUE
                                                    156
                    1
                                                     12
                    2
                                                      2
                    3
                                                      1
                    0
                                                      1
1 COURT
                                                     31
1 PLACE
                    0
                    1
                                                      6
                    2
                                                      1
                    0
                                                     87
1 STREET
                    1
                                                     16
Name: number_of_persons_injured, dtype: int64
```

In [302]:

In [191]:

## In [205]:

## Out[205]:

	cross_street_name	on_street_name	off_street_name	number_of_persons_injured	number_of_r
1	UTICA AVENUE	EMPIRE BOULEVARD	NaN	0	
3	JEFFERSON AVENUE	WILSON AVENUE	NaN	0	
4	FOSTER AVENUE	EAST 17 STREET	NaN	4	
7	LORING AVENUE	DREW STREET	NaN	1	
9	WEST 5 STREET	NEPTUNE AVENUE	NaN	0	
11	EAST 105 STREET	FLATLANDS 2 STREET	NaN	0	
14	NaN	NaN	750 54 STREET	0	
18	JUNIUS STREET	EAST NEW YORK AVENUE	NaN	0	
23	NaN	NaN	230 6 AVE	0	
31	SCHENECTADY AVENUE	WINTHROP STREET	NaN	0	

In [300]:

-

## In [304]:

## Out[304]:

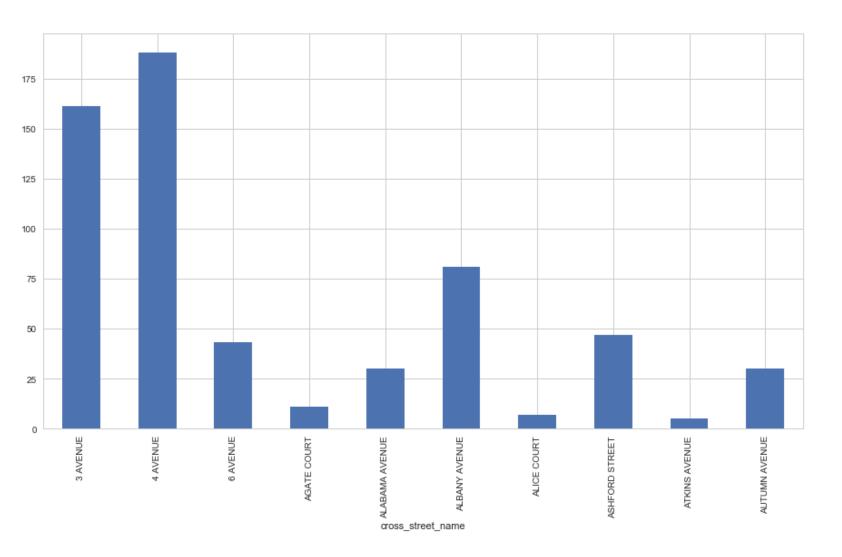
cross_street_name	<pre>number_of_persons_injured</pre>	
1 AVENUE	0	156
	1	12
	2	2
	3	1
1 COURT	0	1
1 PLACE	0	31
	1	6
	2	1
1 STREET	0	87
	1	16

Name: number\_of\_persons\_injured, dtype: int64

## In [313]:

## Out[313]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x11bc05828>



In [275]:	
In [ ]:	
In [ ]:	
In [ ]:	