311 COMPLAINTS IN NYPD SERVICE AREAS

NYC 311

JAVAD ALI











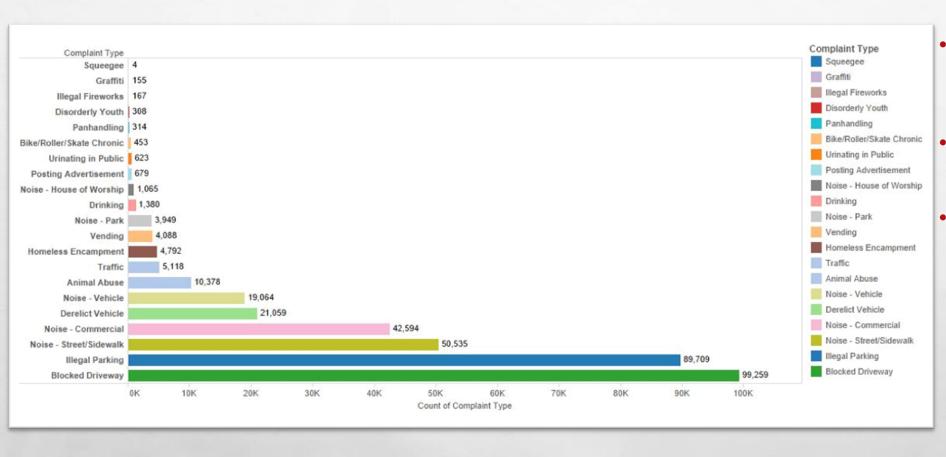


ABSTRACT

- AN ANALYSIS OF NYC OPEN DATA ON "311 SERVICE REQUEST" DURING 2015 WAS PERFORMED.
- THE DATA SET WAS FILTERED IDENTIFYING ONLY COMPLAINTS WHICH WERE TOWARDS THE NYPD AGENCY.
 - IDENTIFYING: WHEN AND WHERE THESE COMPLAINTS ARISE: DATE, TIME AND LOCATION?
- THE DATA SET ALSO PROVIDED THE SERVICE REQUEST CREATED TIME AND CLOSED TIME AND HOW MANY OF THE COMPLAINTS
 GOT RESOLVED OR MARKED CLOSED.
- MAPPING OF NYPD PRECINCT SERVICE AREAS IN NEW YORK CITY DETERMINED WHICH SERVICE AREA HAD THE MOST COMPLAINTS, WHAT SERVICE AREAS HAD THE LEAST AMOUNT OF COMPLAINTS AND WHICH NYPD PRECINCT DIDN'T RESPONDED TO TOP COMPLAINTS WITHOUT CLOSED DATES.
- THE COMPARISON WAS FURTHER EXAMINED AND CATEGORIZED BY BOROUGHS, AS WELL AS TEMPORAL COMPLAINTS OVER A
 PERIOD OF TIME.
- THE RESULTS OF THESE COMPARISONS (GEOSPATIAL AND TEMPORAL PATTERNS) IDENTIFY, "HOTSPOTS," HOT COMPLAINT TYPES AND PATTERNS WHICH IS VALUABLE AND USEFUL INFORMATION FOR NEW YORK CITY 311 COMPLAINT SERVICE.

	Agency 6	i≡ Agency Name	⊕≡	Complaint Typ	De ⊕ ⊞	Descriptor	B≔	Loca
1 ;≣	NYPD	New York City Police	Department	Illegal Parking		Commercial Overnight Parking		Street
2 :≣	NYPD	New York City Police	Department	Illegal Parking		Blocked Sidewalk		Street
3	natae	lew York City Police	Department	Illegal Parking	"iUnique.Key"	"Created.Date"		Street
4	DHIHU	lew York City Police	Department	Illegal Parking	"Closed.Date" "Agency.Name"	"Agency" "Complaint.Type"		Street
5	NYPD	New York City Police	Department	Blocked Drivew	"Descriptor" "Incident.Zip"	"Location.Type" "Incident.Address"		Street
6	•••FOUND ON <u>NYC OPE</u>	N DATA: York City Police	Department	Blocked Drivew	"Street.Name" "Cross.Street.2"	"Cross.Street.1" "Intersection.Street.1"		Street
7	FITTEREN NATE TO D	ISPLAY DATA WITHI	N THE VEAR 2015	Illegal Parking	"Intersection.Street.2" "City"	"Address.Type" "Landmark"		Street
8	NYPD	New York City Police	Department	Blocked Drivew	"Facility.Type" "Due.Date"	"Status" "Resolution.Description"		Street
9	NELLTERED AGENCY T	O 'NYPD' York City Police	Department	Blocked Drivew	"Resolution.Action.Updated.Da"	te" "Community.Board" "X.CoordinateState.Plane.		Street
10	• 364555 <mark>ROWS</mark>, 53	COLUMNS k City Police	Department	Noise - Street/S	"Y.CoordinateState.Plane." "Park.Borough"	"Park.Facility.Name" "School.Name"		Street
11 :≣	SHAPE FILES:	New York City Police	Department	Illegal Parking	"School.Number" "School.Code"	"School.Region" "School.Phone.Number"		Street
12 ;≣	NYPD	New York City Police	Department	Derelict Vehicle	"School.Address" "School.State"	"School.City" "School.Zip"		Street
13	NYPD SERVICE	New York City Police	Department	Blocked Drivew	"School.Not.Found" "Vehicle.Type"	"School.or.Citywide.Complai "Taxi.Company.Borough"	int"	Street
14	NYPD PRECINC	New York City Police	Department	Blocked Drivew	"Taxi.Pick.Up.Location" "Bridge.Highway.Direction"	"Bridge.Highway.Name" "Road.Ramp"		Street
15	MADDITIONAL DATAS	New York City Police	Department	Noise - Comme	"Bridge.Highway.Segment" "Ferry.Direction"	"Garage.Lot.Name" "Ferry.Terminal.Name"		Club/E
16	NYPD US CENSUS DAT	New York City Police	Department	Noise - Comme		"Longitude"	_	Club/E
17 ≔	NYPD	New York City Police	Department	Noise - Street/S	idewalk	Loud Music/Party		Street
18	NYPD	New York City Police	Department	Illegal Parking		Unauthorized Bus Layover		Street

NYPD COMPLAINTS CREATED IN 2015



2 MAJOR TYPE OF COMPLAINTS

- Parking
- Noise

PARKING

- Blocked Driveway
- Illegal Parking

NOISE

- Commercial
- Street/Sidewalk

PARKING COMPLAINT: BLOCKED DRIVEWAY + ILLEGAL PARKING: CREATED DATE & CLOSED DATE



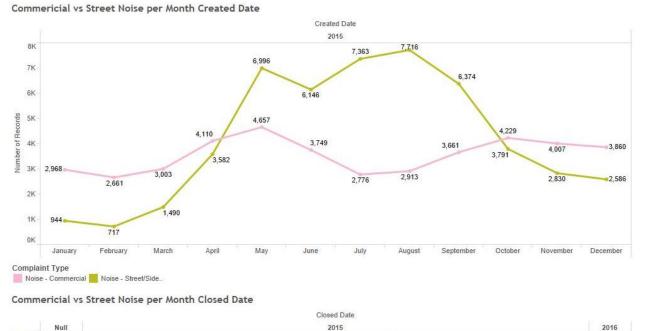
BLOCKED DRIVEWAY

Increased monthly
7k to 9k by EOY
10 complaints without closed dates

ILLEGAL PARKING

Increased monthly
5k to 8k by EOY
8 complaints without closed dates

COMMERCIAL NOISE + STREET NOISE: CREATED DATE VS CLOSED DATE





COMMERCIAL

Remained Stable throughout the year 3k to 4k by EOD 15 complaints without end dates

STREET NOISE

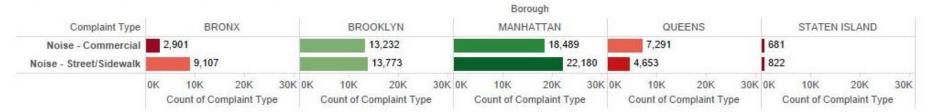
Increased in may and declined in October 900 to 2.5k by EOD Complaints increased during summer 14 complaints without end dates

BLOCKED DRIVEWAY + ILLEGAL PARKING VS COMMERCIAL + STREET NOISE BY BOROUGH

Blocked Driveway + Illegal Parking by Borough



Commercial + Street Noise by Borough



Count of Complaint Type

2,676

BLOCKED DRIVEWAY + ILLEGAL PARKING VS COMMERCIAL + STREET NOISE BY MONTH + BOROUGH



BLOCKED DRIVEWAY + ILLEGAL PARKING

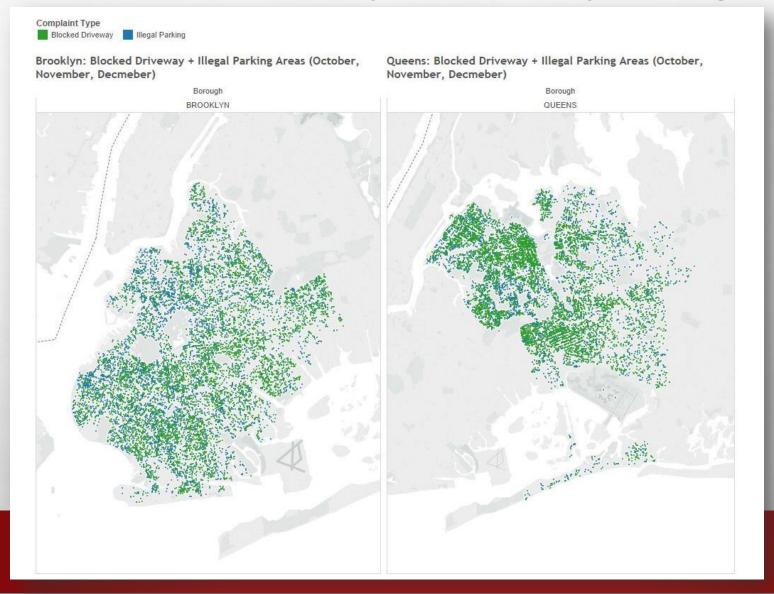
Major Complaints in Brooklyn and Queens 3 Top Months

October, November, December

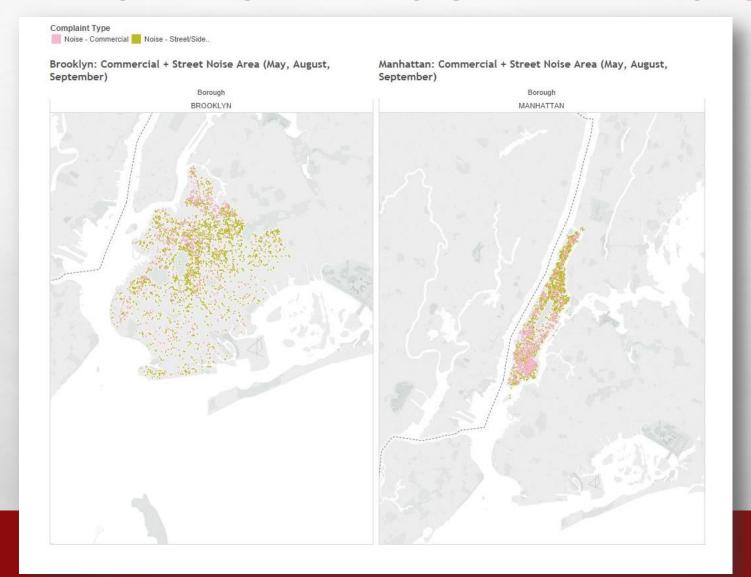
COMMERCIAL + STREET NOISE

Major Complaints in Brooklyn and Manhattan 3 Top Months May, August, September

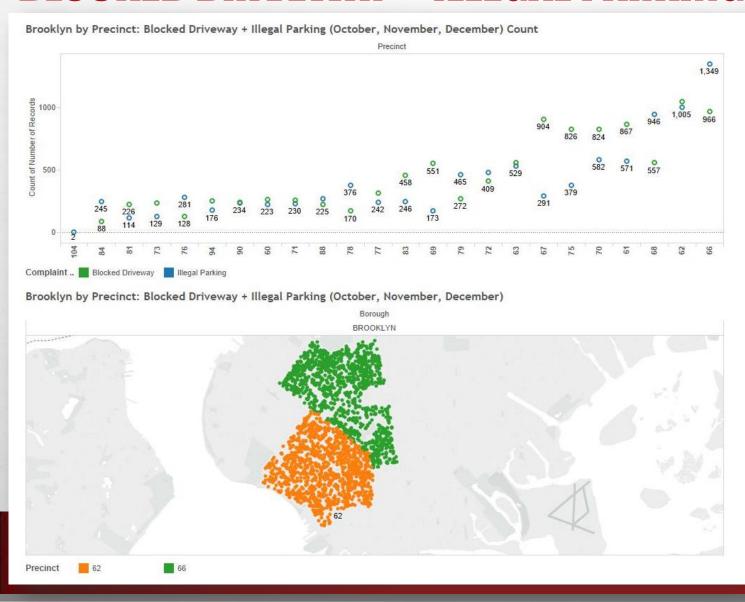
BLOCKED DRIVEWAY + ILLEGAL PARKING AREAS BY BOROUGH



COMMERCIAL + STREET NOISE AREA BY BOROUGH



BLOCKED DRIVEWAY + ILLEGAL PARKING: BROOKLYN BY PRECINCT



TOP 2 PRECINCTS IN BROOKLYN WITH MOST COMPLAINTS IN THE MONTHS OF OCTOBER, NOVEMBER AND DECEMBER

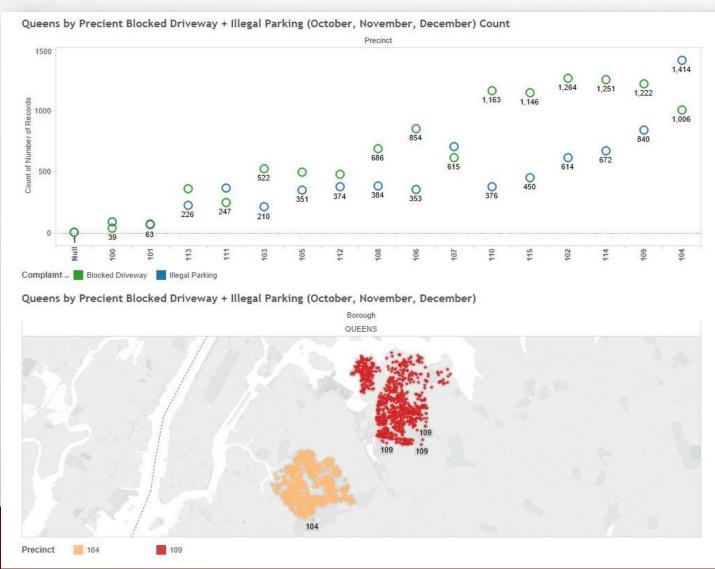
62

Blocked Driveway – 1,050 Illegal Parking - 1,005

66

Blocked Driveway – 1,349 Illegal Parking - 966

BLOCKED DRIVEWAY + ILLEGAL PARKING: QUEENS BY PRECINCT



TOP 2 PRECINCTS IN QUEENS WITH MOST COMPLAINTS IN THE MONTHS OF OCTOBER, NOVEMBER AND DECEMBER

109

Blocked Driveway – 1,222 Illegal Parking - 840

104

Blocked Driveway – 1,414 Illegal Parking – 1,006

COMMERCIAL + STREET NOISE: BROOKLYN BY PRECINCT



TOP 2 PRECINCTS IN BROOKLYN WITH MOST COMPLAINTS IN THE MONTHS OF OCTOBER, NOVEMBER AND DECEMBER

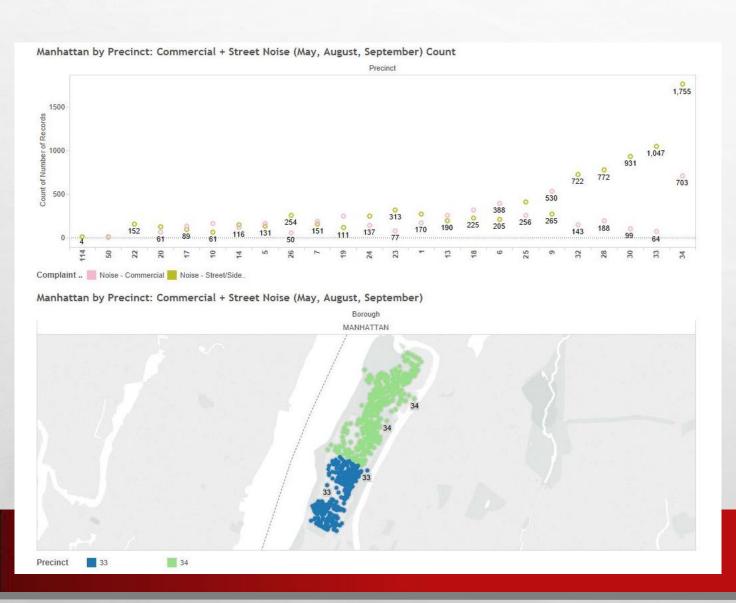
77

Commercial – 452 Street/Sidewalk - 597

90

Commercial – 672 Street/Sidewalk – 732

COMMERCIAL + STREET NOISE: MANHATTAN BY PRECINCT



TOP 2 PRECINCTS IN MANHATTAN WITH MOST COMPLAINTS IN THE MONTHS OF OCTOBER, NOVEMBER AND DECEMBER

33

Commercial – 64 Street/Sidewalk – 1,047

34

Commercial – 703 Street/Sidewalk – 1,755

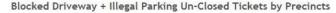
BLOCKED DRIVEWAY + ILLEGAL PARKING VS COMMERCIAL + STREET NOISE: UN-CLOSED COMPLAINTS

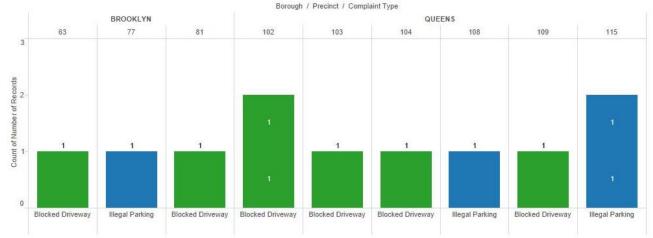


TOP 3 MONTHS WHERE COMPLAINTS WEREN'T CLOSED

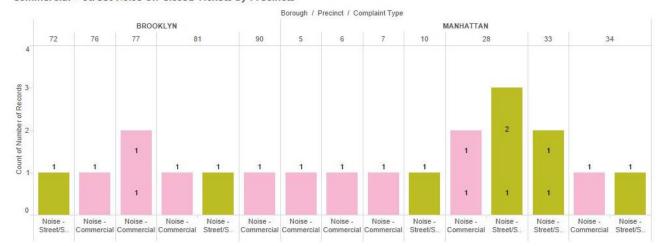
Blocked Driveway + Illegal Parking August, September and December Commercial + Street/Sidewalk Noise August, November, December

RELATIONSHIP BETWEEN UNCLOSED COMPLAINT + PRECINCTS IN BROOKLYN + QUEENS VS BROOKLYN + MANHATTAN





Commercial + Street Noise Un-Closed Tickets by Precincts



TOP PRECINCTS WHERE COMPLAINTS WEREN'T CLOSED

Blocked Driveway + Illegal Parking

102 – 2 Complaints

115 – 2 complaints

Commercial + Street/Sidewalk Noise

77 - 2

28 - 2 Commercial Noise

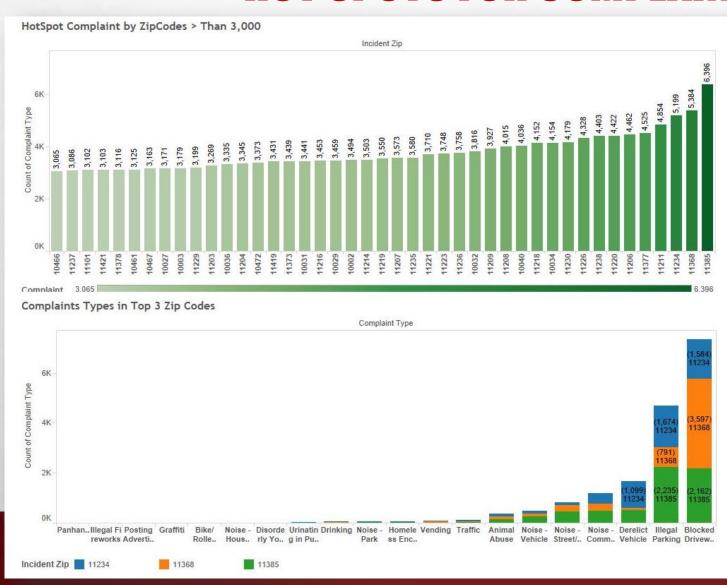
3-Street Noise

TIME ELAPSED FROM COMPLIANT OPEN DATE & TIME TO CLOSE BY PRECINCT (MIN AND MAX)



BLOCKED DRIVEWAY COMMERCIAL NOISE 33 Precinct 111 Max - 43 min Max - 31 min Min – 1 min Min – less than 1 min **44 Precinct** Max - 6 Hours Max - 24 hours Min – less than 1 min Min – less than 1 min **ILLEGAL PARKING** 14 111 Max - 57 Min Max - 34 min Min – less than 1 min Min - 1 min 62 **79** Max - 24 hours Max - 24 hours Min – 1 minute Min - less than 1 min

HOT SPOTS FOR COMPLAINT TYPE BY ZIP



TOP 3 ZIP CODES AND COMPLAINT TYPES FOR COMPLAINTS

ZIP CODES

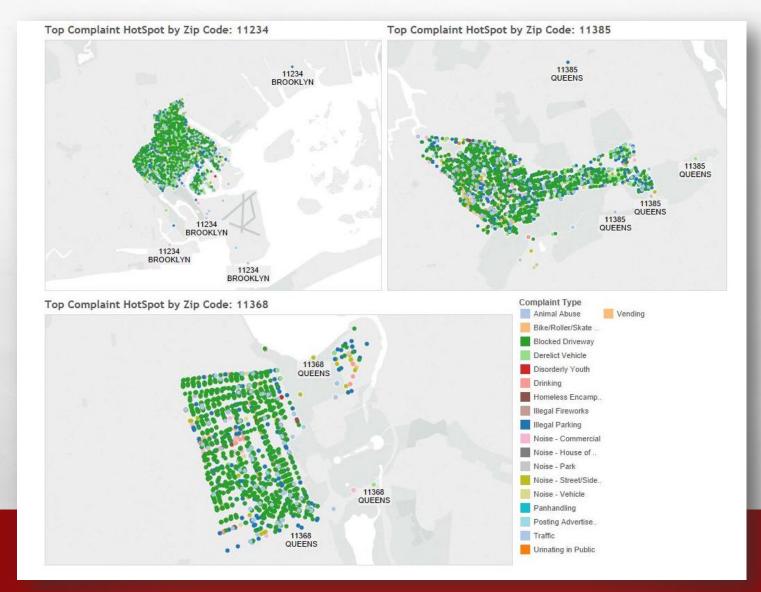
11234 11368

11385

COMPLAINT TYPES

Derelict Vehicle Illegal parking Blocked Driveway

COMPLAINT TYPE BY TOP 3 ZIP - MAP



AND THE RESEARCH CONTINUES

RECOMMENDATIONS

FOR BLOCKED DRIVEWAY AND/OR ILLEGAL PARKING COMPLAINTS THE NYPD FOLLOWS UP AND IF VEHICLE IS STILL IN COMPLAINT CONDITION IT IS TICKETED AND THEN TOWED TO THE POUND

FOR COMMERCIAL + STREET/SIDEWALK NOISE COMPLAINTS THE NYPD FOLLOWS UP AND EITHER FINES THE SOURCE OF THE NOISE OR GETS THEM TO QUITE DOWN

CURRENTLY THE NYPD DOES NOT HAVE ANY SPECIFIC OFFICERS ON THE FORCE TASKED TO ANY 311 COMPLAINTS. THEY ARE ASSIGNED TO AN OFFICER NEAR BY AFTER THE EMERGENCY CALLS ARE PREFORMED. IN MOST CASES THE SOURCE CAUSE OF THE COMPLAINT IS NO WHERE TO BE SEEN BY THE TIME THE OFFICER SHOWS UP

THIS CAUSES INACCURATE DATA FOR HOW LONG IT REALLY TAKES TO CLOSE A COMPLAINT TICKET. NYPD SHOULD ASSIGN A TASK FORCE SPECIFIC FOR 311 COMPLAINTS SINCE THESE COMPLAINTS ARE INCREASING.

FURTHERMORE

THIS DATA IS CONSTANTLY REOCCURRING. THESE ANALYTICS WILL BE COMPARED TO 2016 DATA FOR IMPROVEMENT AND/OR INCREASED IN COMPLAINTS.

LINK TO INTERACTIVE CHARTS ONLINE

CLICK HERE

