

```

clear, clc
opts = detectImportOptions('EJSCREEN_2022_Supplemental_with_AS_CNMI_GU_VI_Tracts.csv');
opts.SelectedVariableNames = [1:41];
B = readtable('EJSCREEN_2022_Supplemental_with_AS_CNMI_GU_VI_Tracts.csv', opts);

opts = detectImportOptions('U.S._Life_Expectancy.csv');
opts.SelectedVariableNames = [1:4];

A = readtable('U.S._Life_Expectancy.csv', opts);

```

Warning: Column headers from the file were modified to make them valid MATLAB identifiers before creating variable names for the table. The original column headers are saved in the VariableDescriptions property. Set 'VariableNamingRule' to 'preserve' to use the original column headers as table variable names.

```

% track = table2array( B(:,2) )
% [c,i] = max(track)
% B(i,[1,2,3,5])
% censusNum = table2array(A (:,3))
% find(censusNum == 506.02)
% A(66,:)

% Was going to attach Life Expectancy (LE) with tract number but the format of
% the tract number is different from the EJScreen vs CDC

% Imported the CDC Data to retrieve max LE
% Then calculated the LE in the EJScreen table to ensure tract matching
% spot checked some values and LE matches

CDCle = table2array( A(:,4) );
perLE = table2array( B(:,28));
LEmax = max(CDCle); % Max from CDC = 97.5 years

calLE = (1 - perLE).*LEmax; % Calculated LE from Equation from the EJScreen Technical document
calLE = round(calLE ,2);

%Added to the EJScreen Table and removed rows with no LE
name = "CalcLifeExpec";
B.(name) = calLE;
B = rmmissing(B, 'DataVariables', "CalcLifeExpec");

```

```

factors = table2array( B(:,[7:27,29:42]) );

colNames = ["Total Population"; "Population For Whom Poverty Status Is Determined"; "Population"
    "Households (For Limited English Speaking)"; "Housing Units (For % Built Pre-1960)"; "Unemp"
    "Demographic Index"; "People Of Color"; "% People Of Color"; "Low Income"; "% Low Income";
    "Limited English Speaking Households"; "% Limited English Speaking Households"; "Less Than"
    "Under Age 5"; "% Under Age 5"; "Over Age 64"; "% Over Age 64"; "Particulate Matter 2.5"; "

```

```
"Air Toxics Respiratory HI"; "Traffic Proximity"; "Housing Units Built Before 1960"; "Lead  
"Hazardous Waste Proximity"; "Underground Storage Tanks"; "Wastewater Discharge"; "Life Exp
```

```
for i = 1:width(factors)-1
%   disp(colNames(i));
XY = [factors(:,end), factors(:,i)];
XY = rmmissing(XY);
x = XY(:, 1);
y = XY(:, 2);

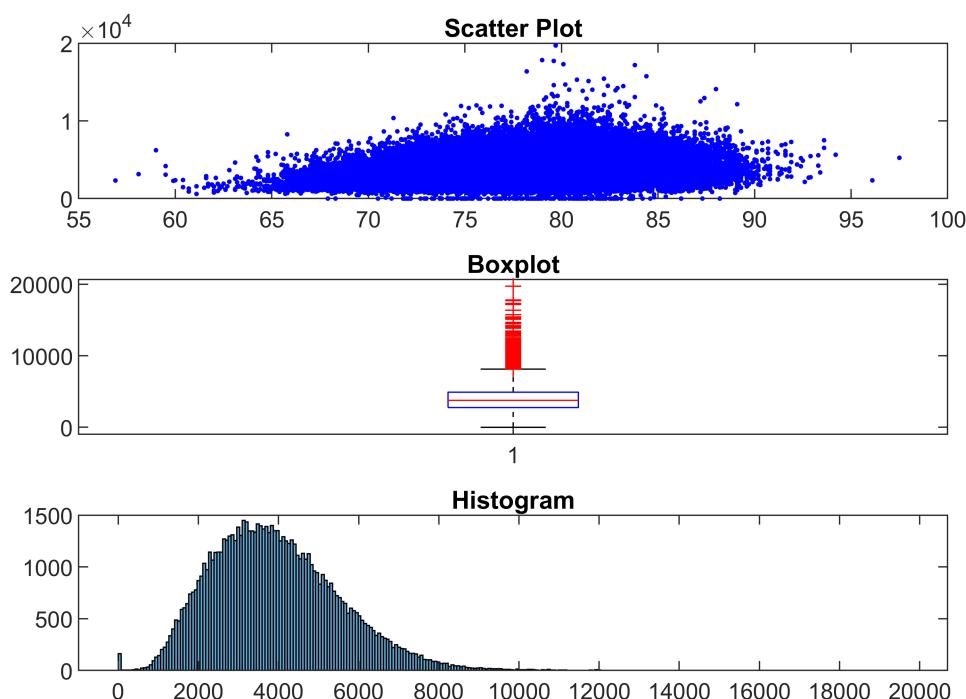
n = ceil(sqrt(length(x) ) );

figure
subplot(3,1,1)
sgtitle(colNames(i))
plot(x, y, 'b.')
title('Scatter Plot')

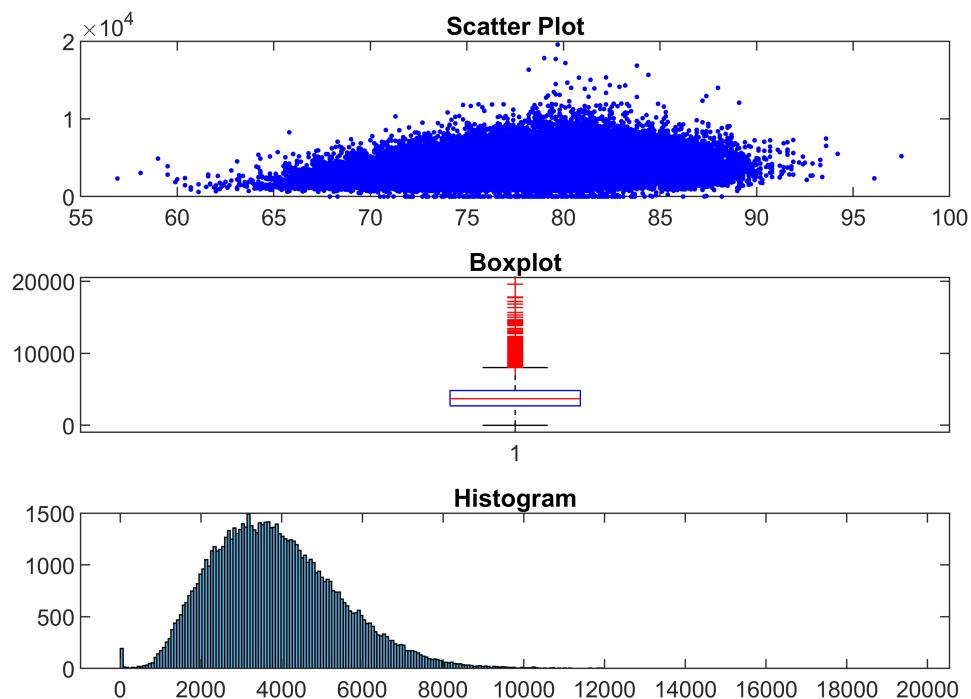
subplot(3,1,2)
boxplot(y)
title('Boxplot')

subplot(3,1,3)
histogram(y, n)
title('Histogram')
end
```

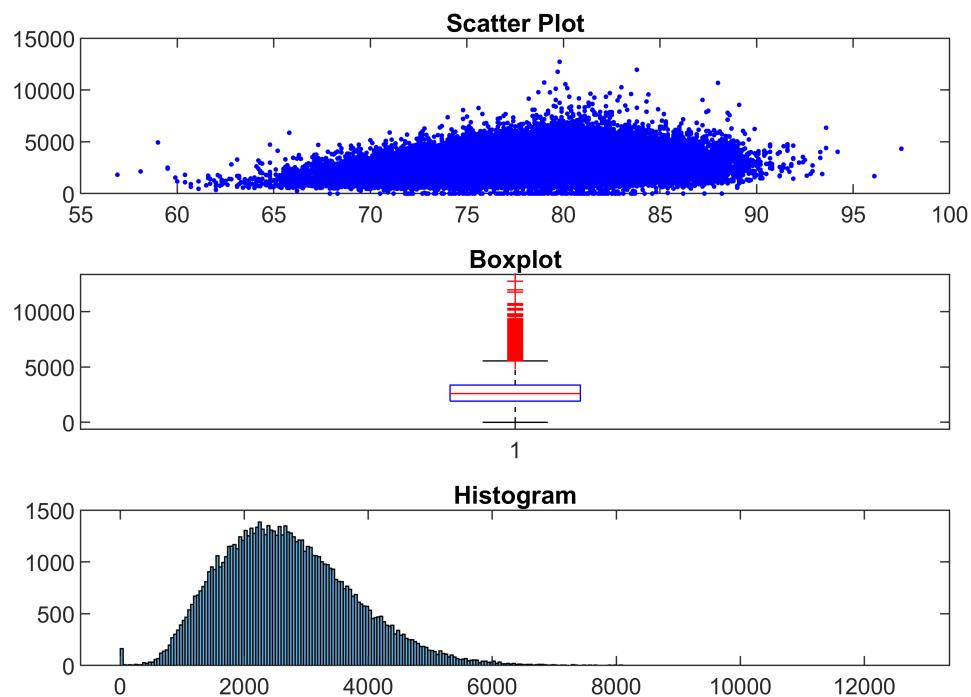
Total Population



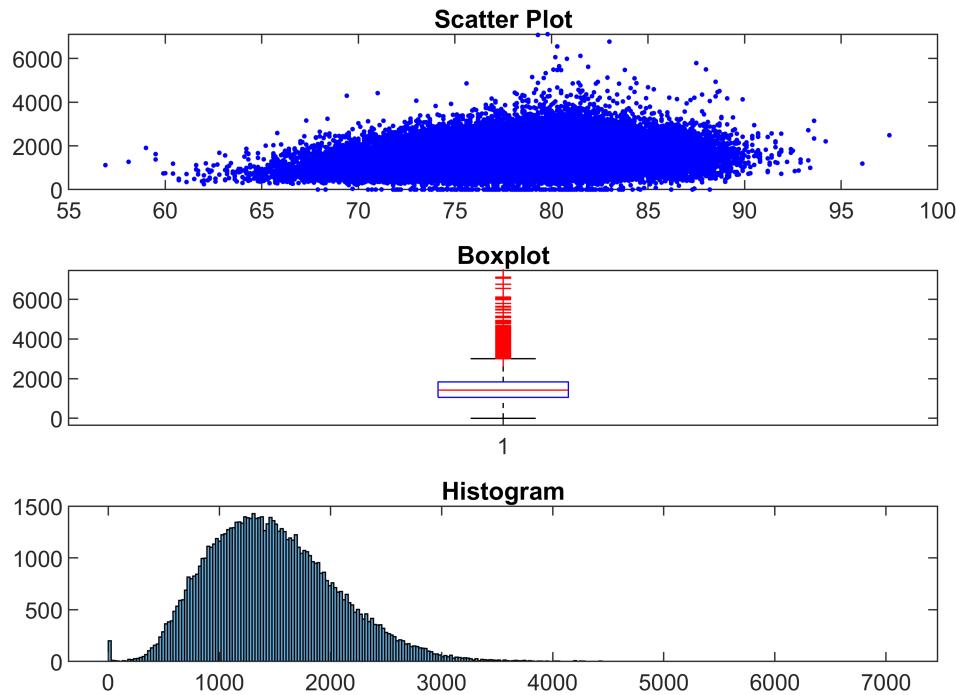
Population For Whom Poverty Status Is Determined



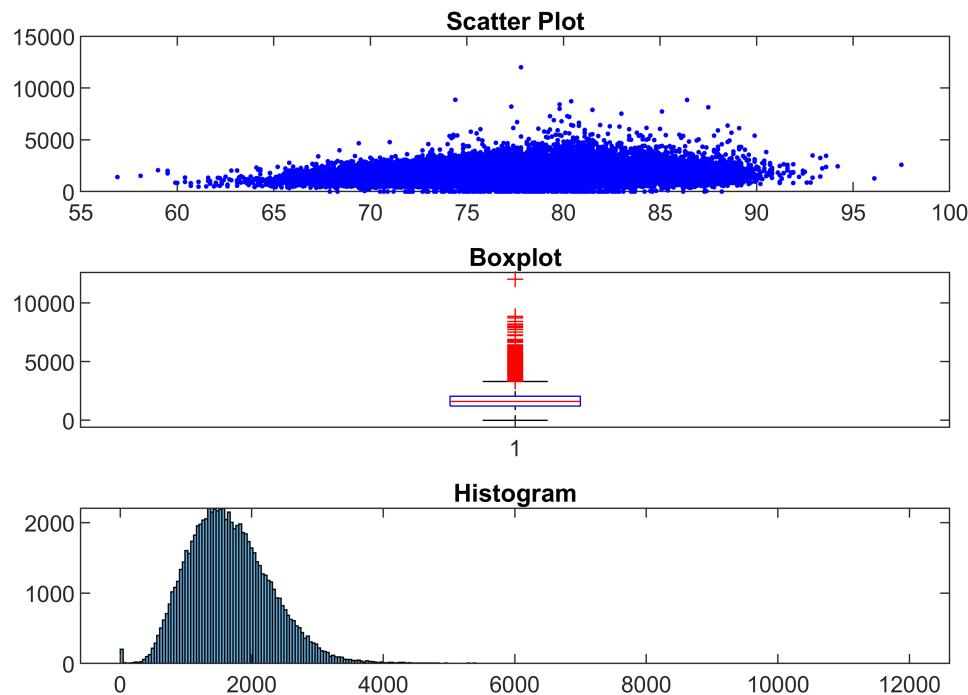
Population 25 Years And Over



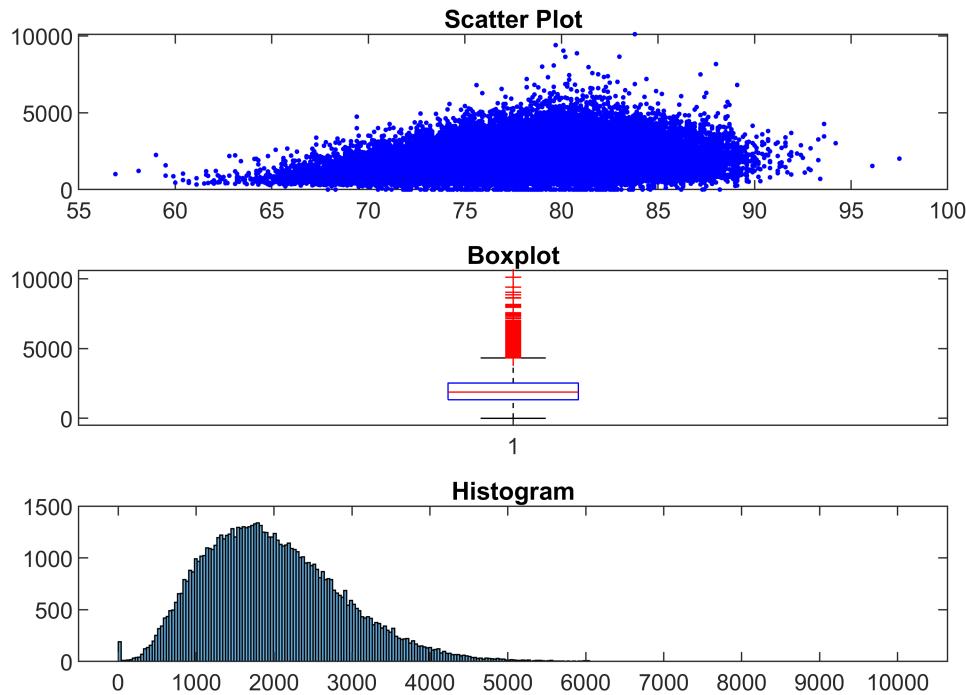
Households (For Limited English Speaking)



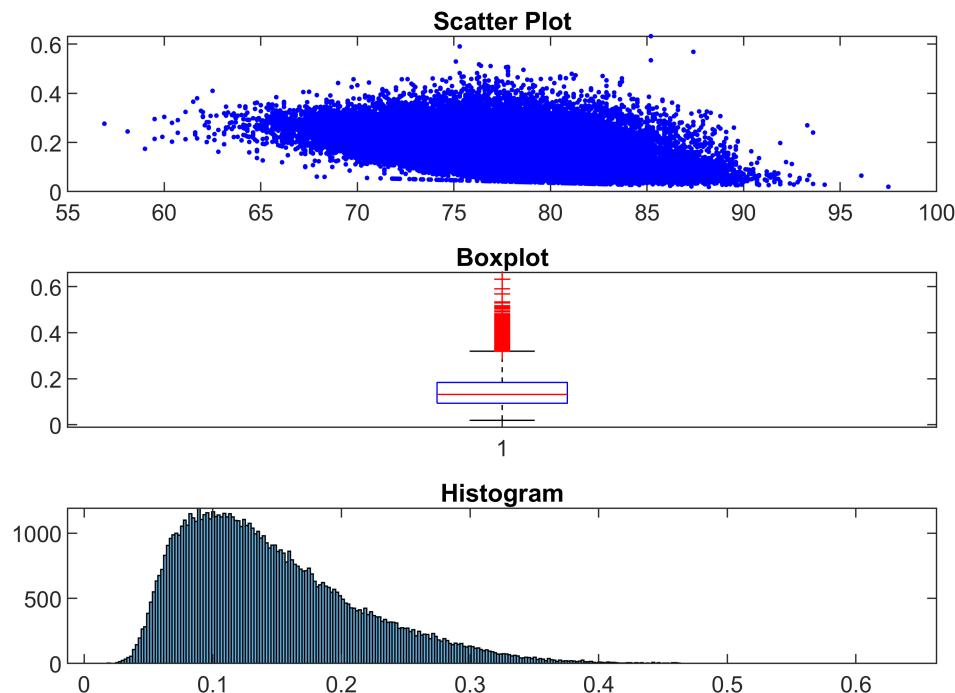
Housing Units (For % Built Pre-1960)



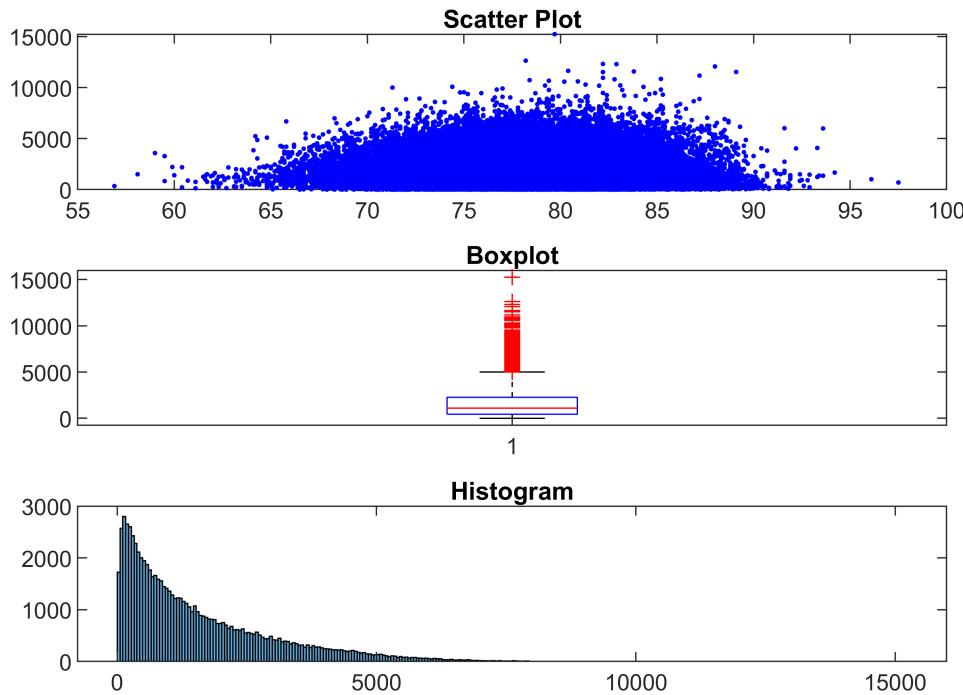
Employment Base--Persons In Civilian Labor Force (Unemployment)



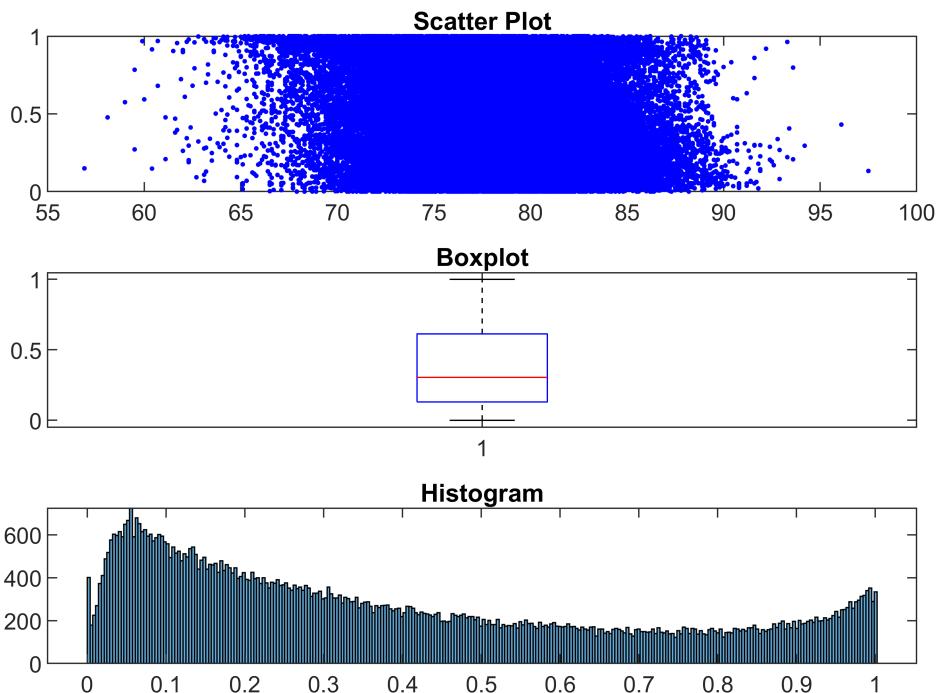
Demographic Index



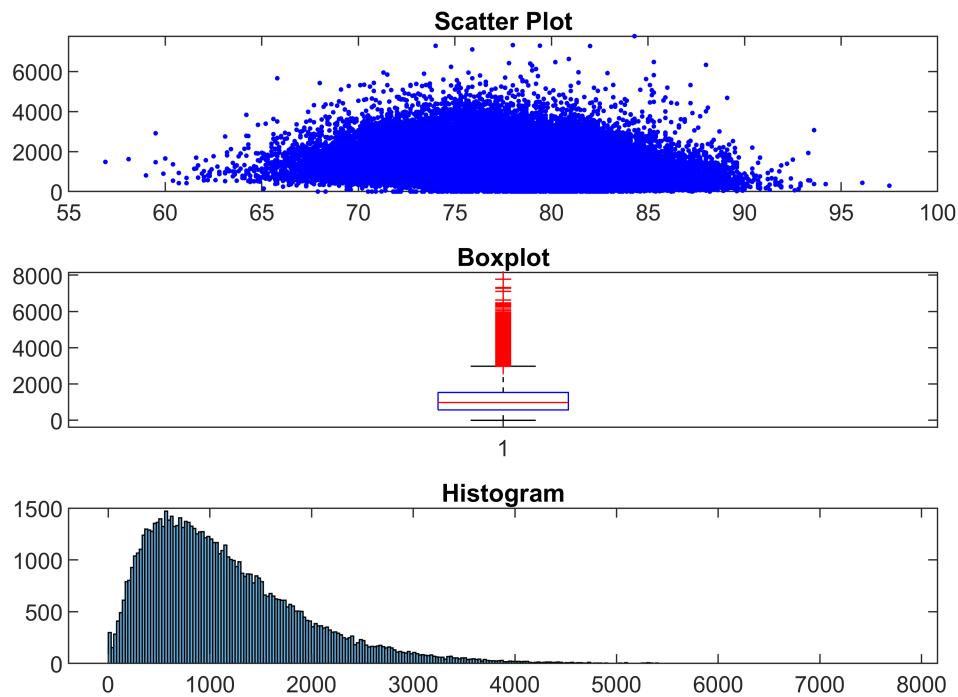
People Of Color



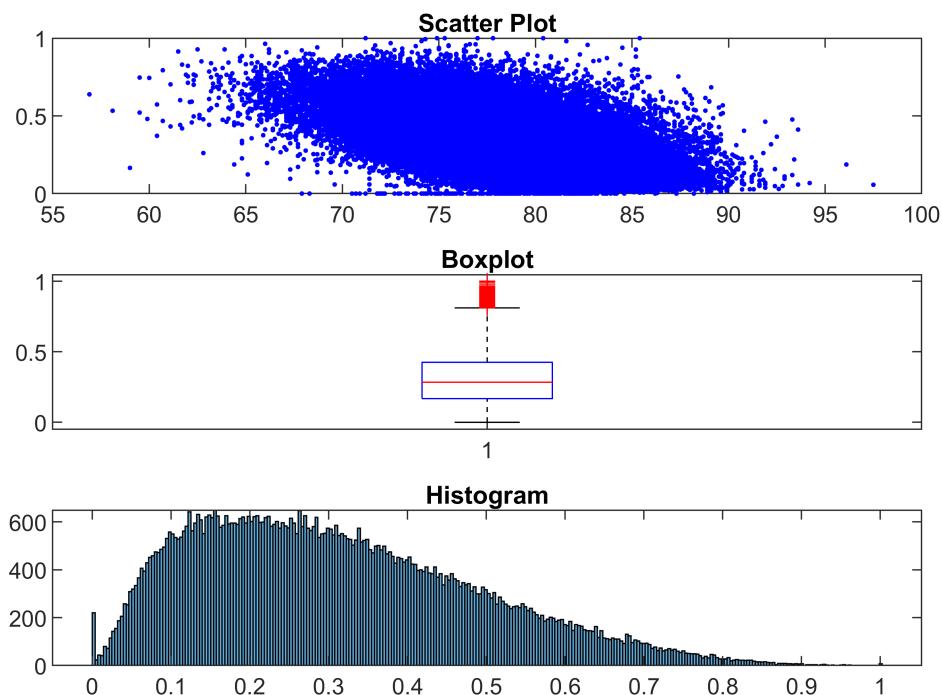
% People Of Color



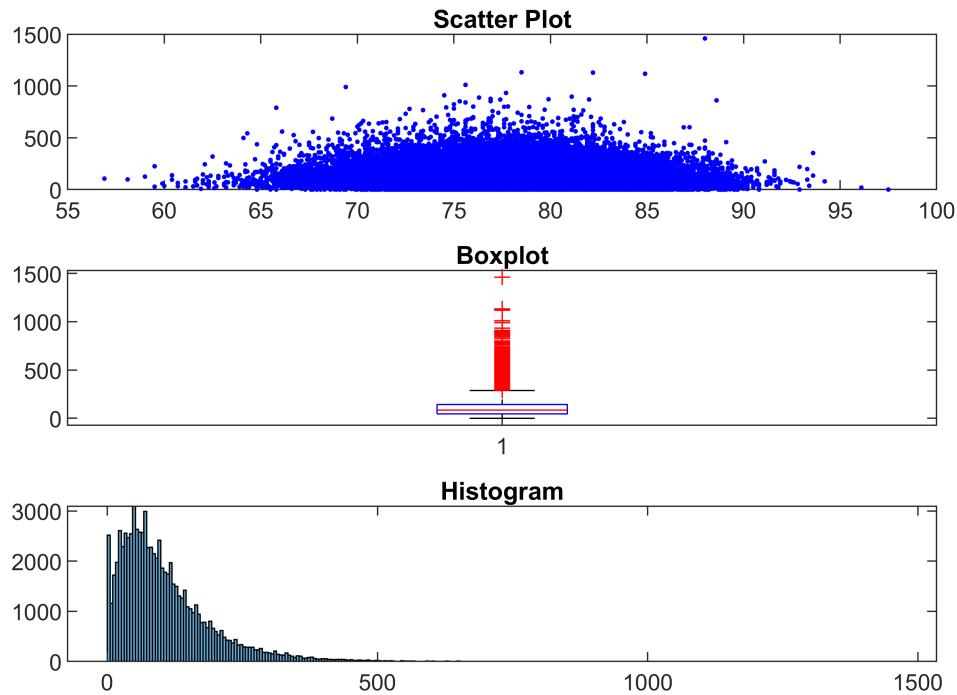
Low Income



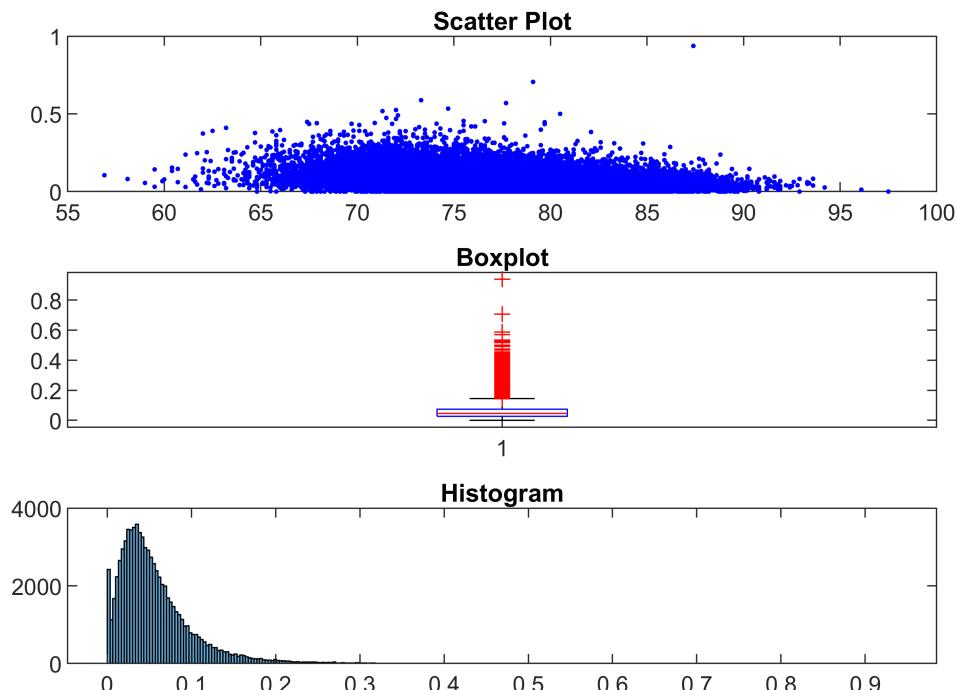
% Low Income



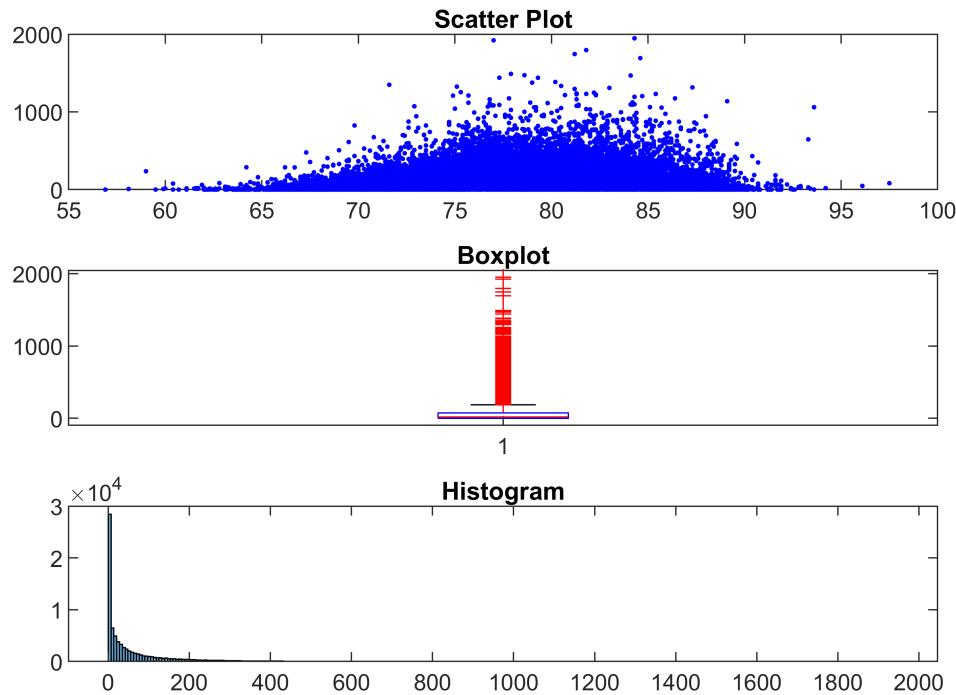
Unemployed In Civilian Labor Force



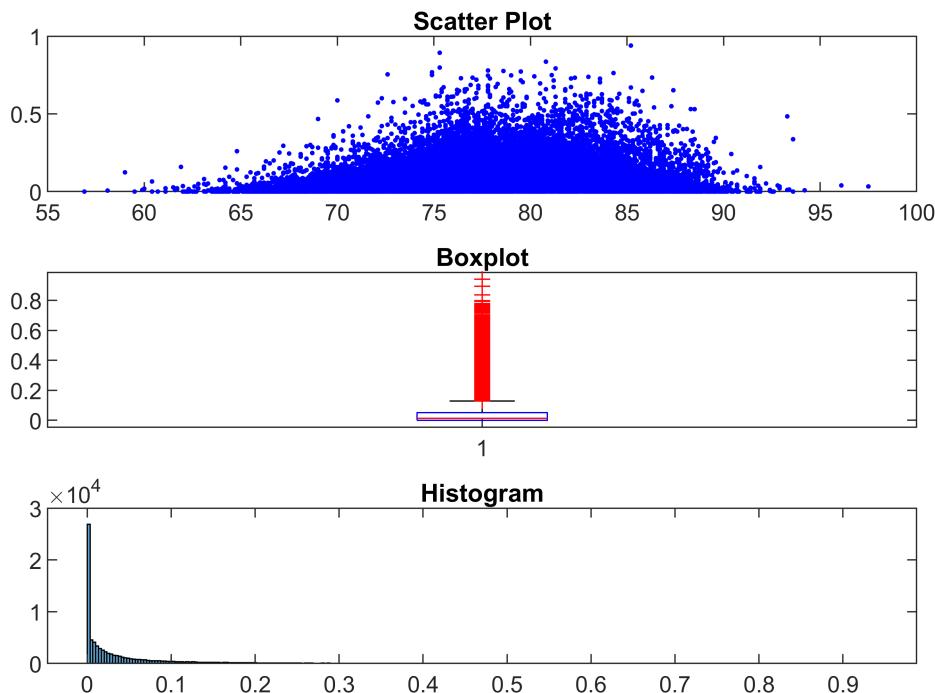
% Unemployed



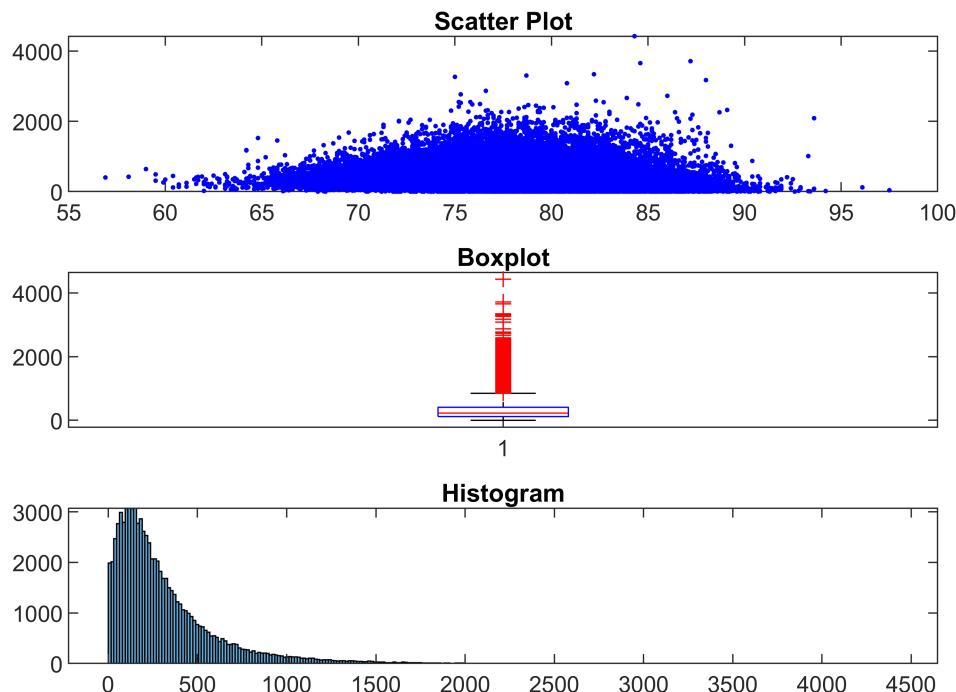
Limited English Speaking Households



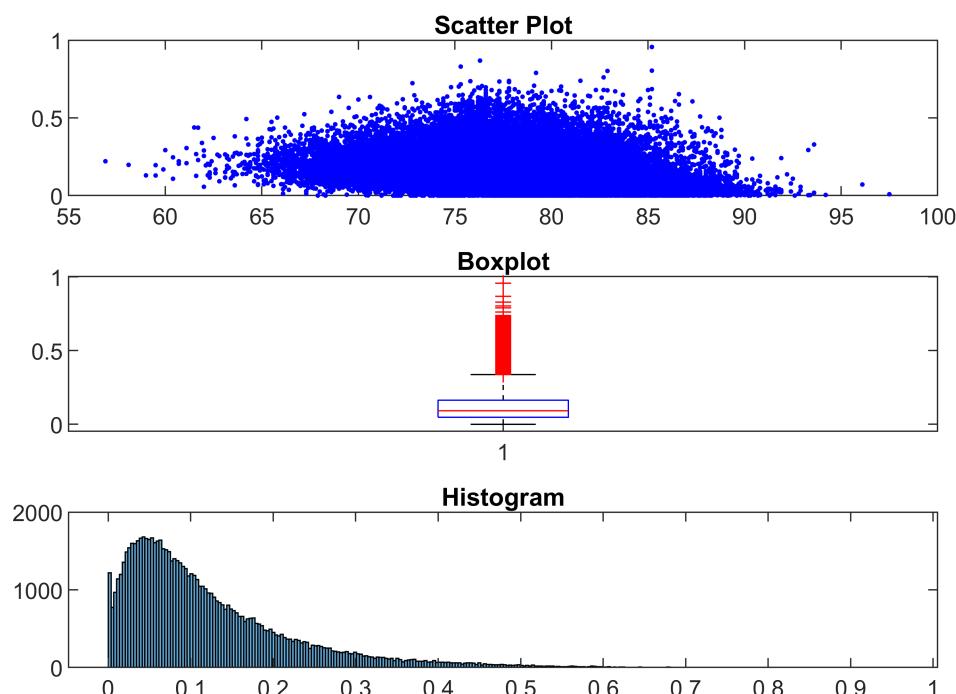
% Limited English Speaking Households



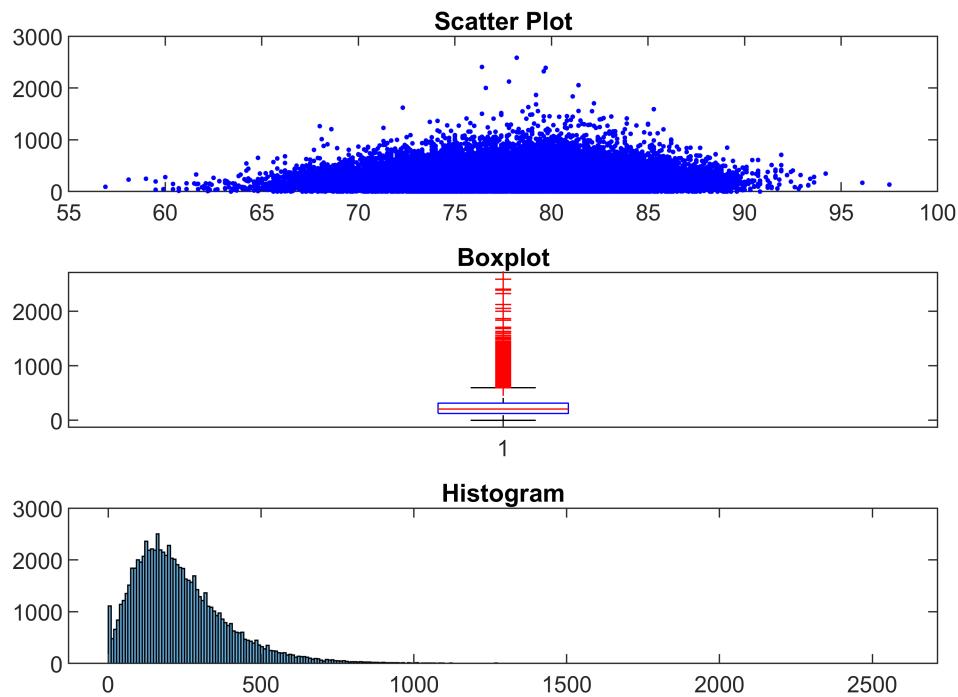
Less Than High School Education



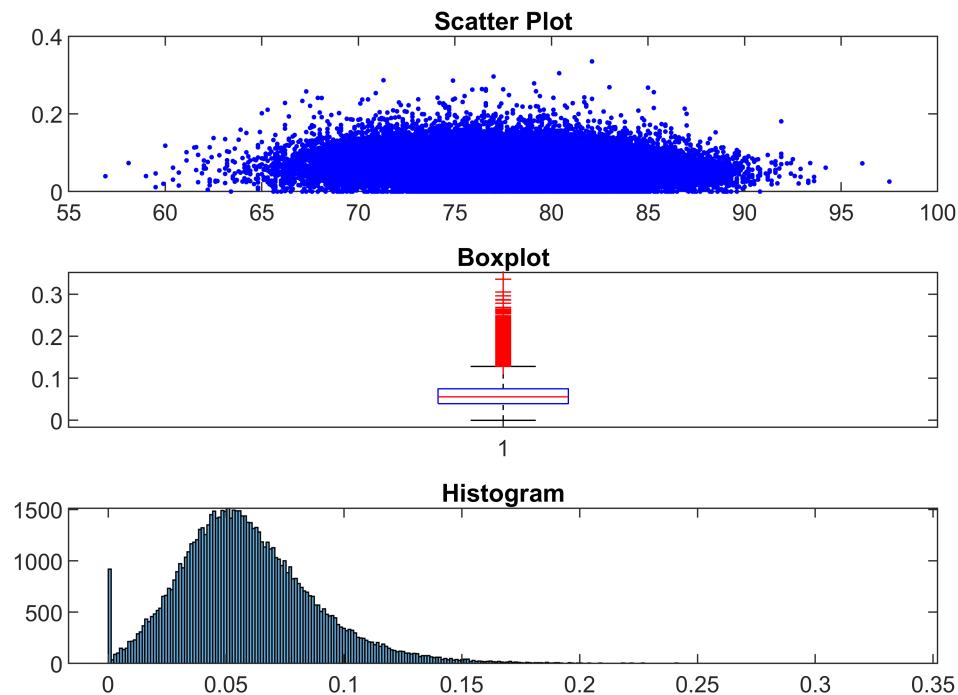
% Less Than High School Education



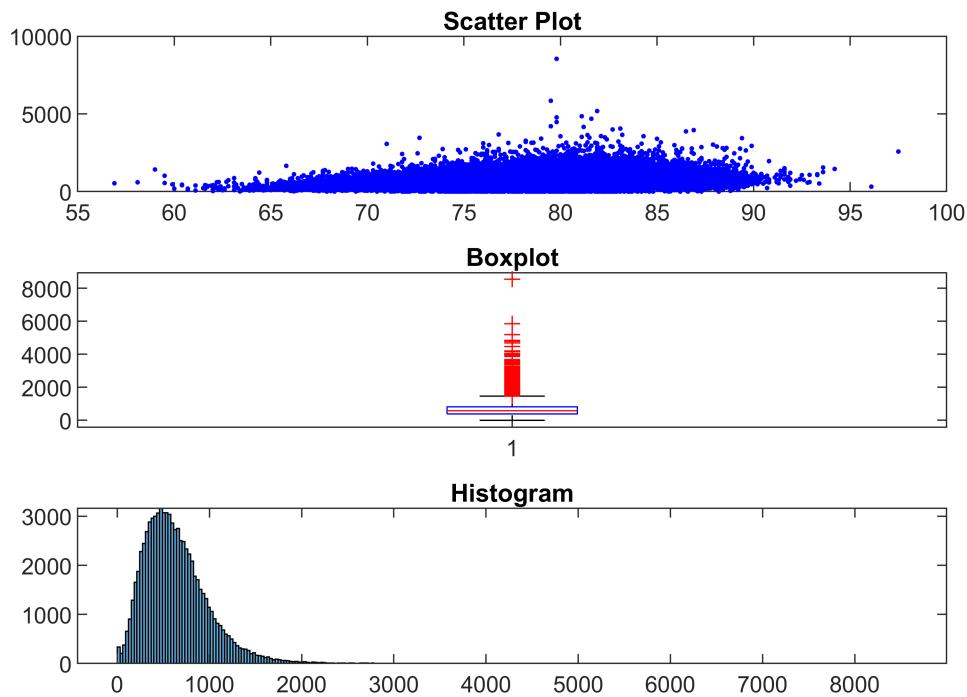
Under Age 5



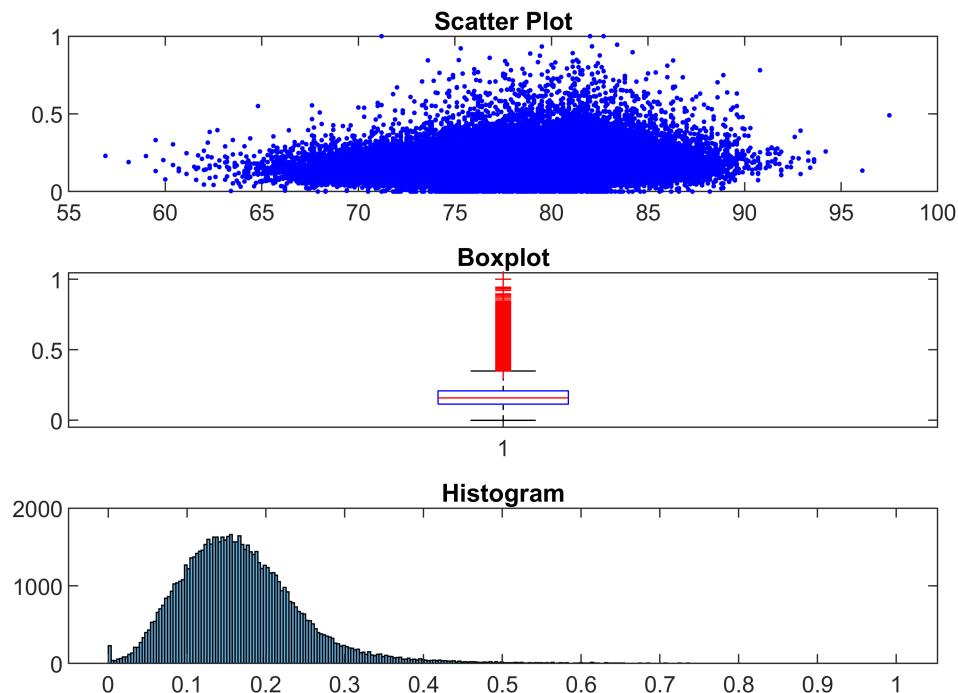
% Under Age 5



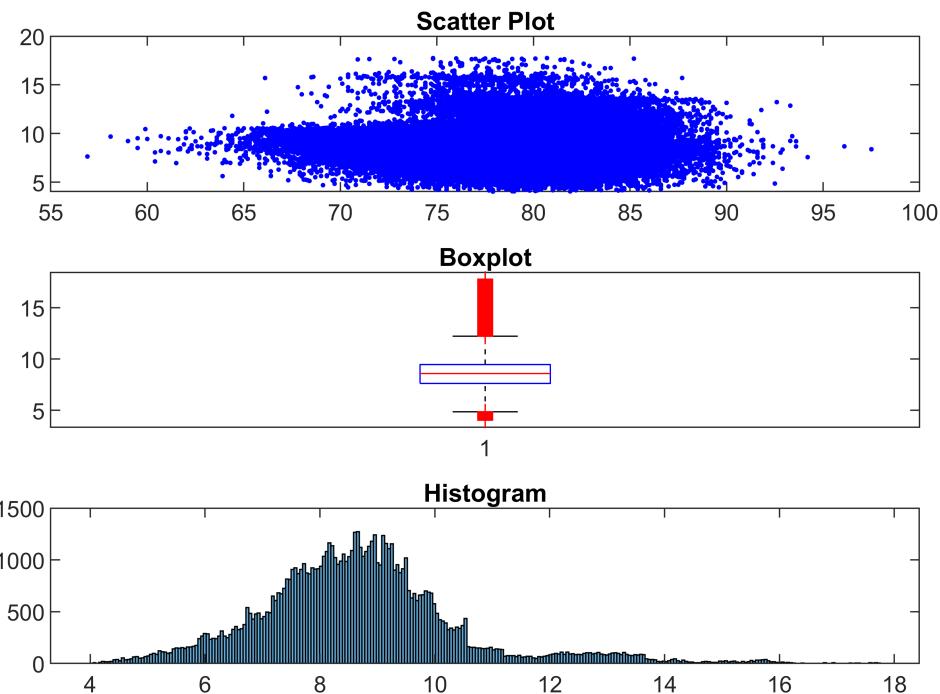
Over Age 64



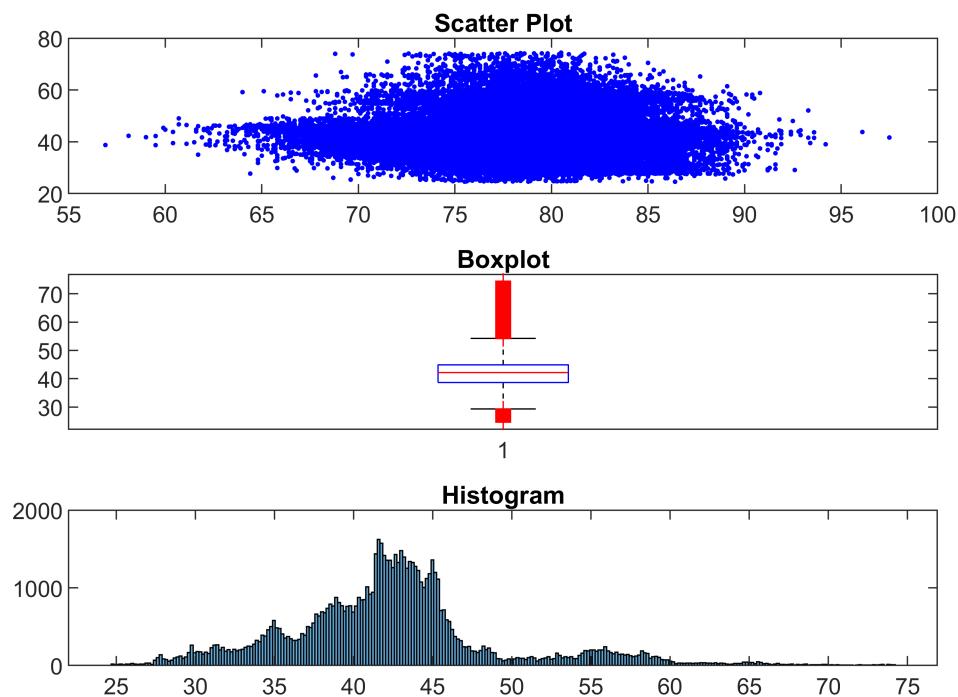
% Over Age 64



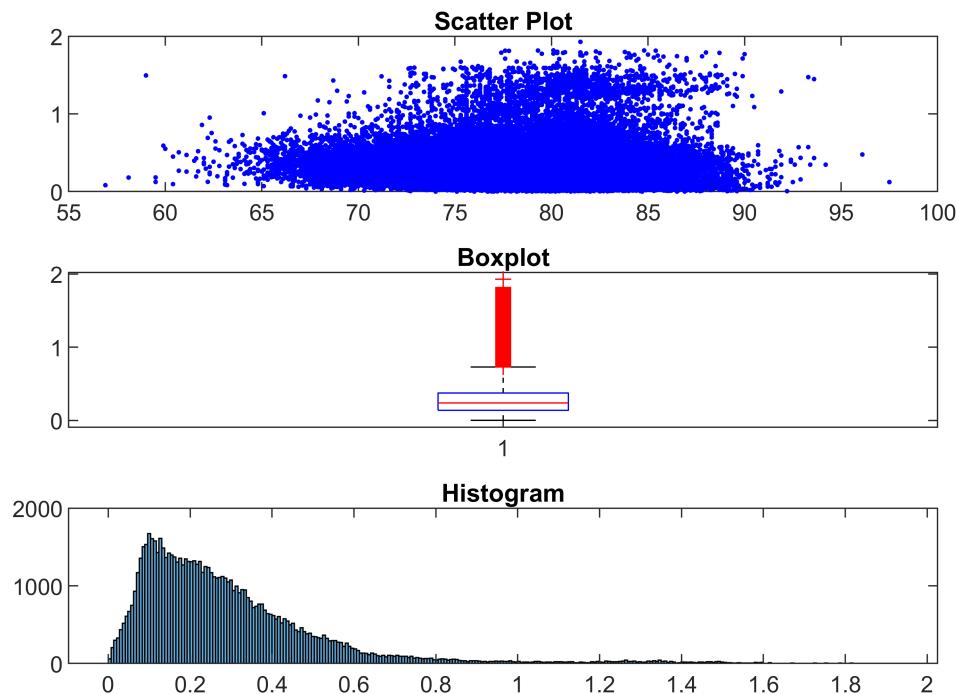
Particulate Matter 2.5



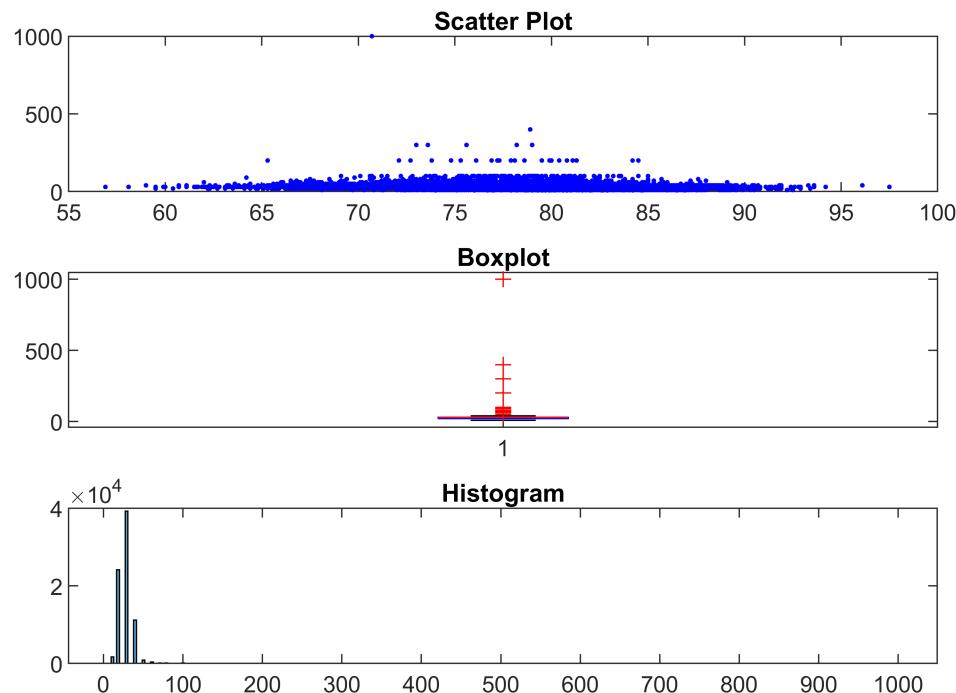
Ozone



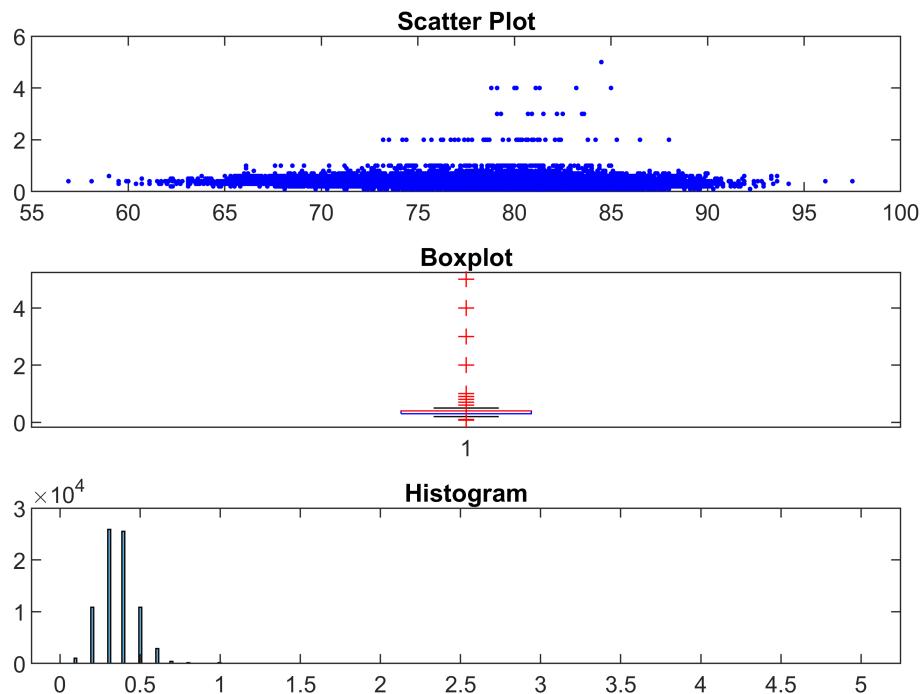
Diesel Particulate Matter



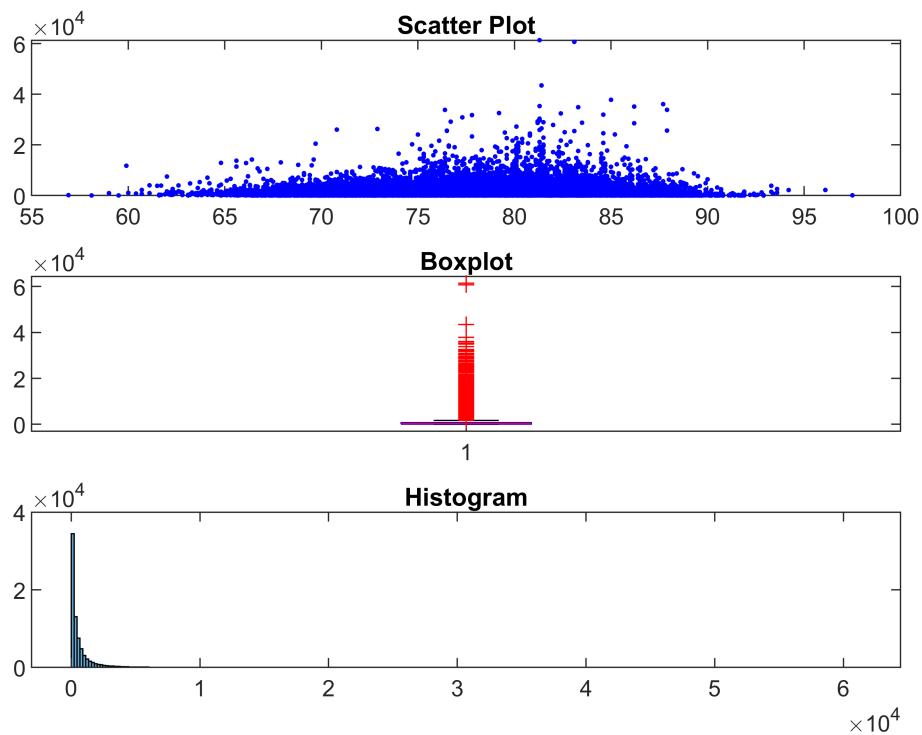
Air Toxics Cancer Risk



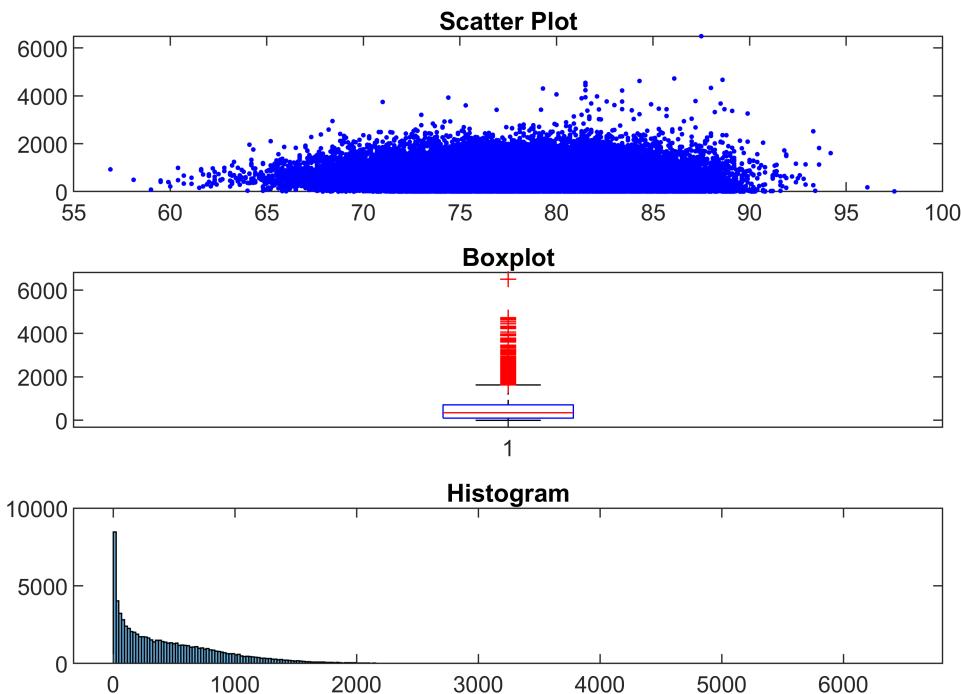
Air Toxics Respiratory HI



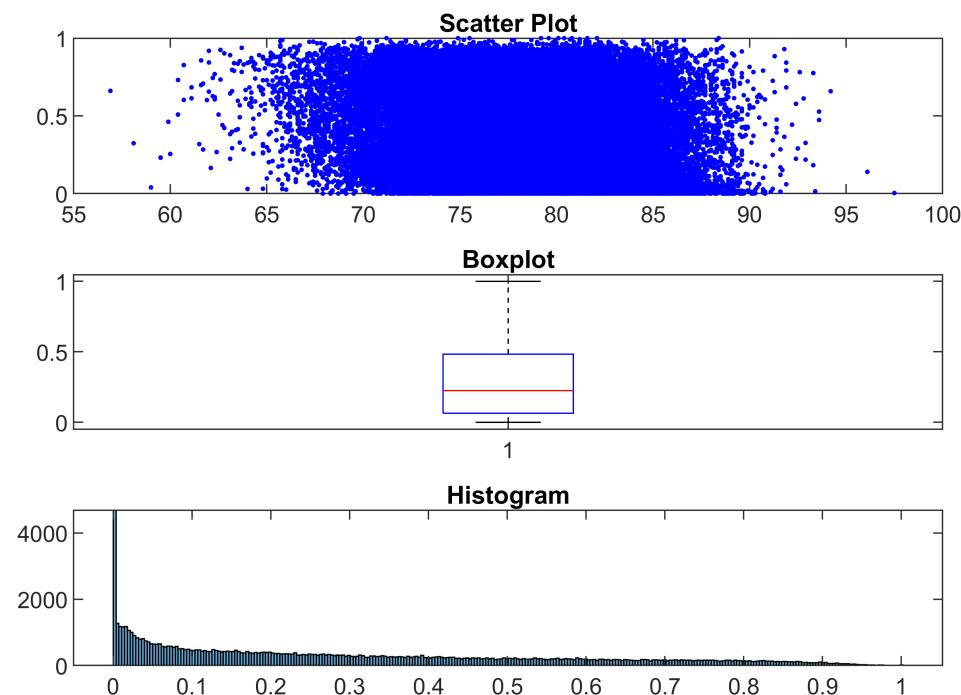
Traffic Proximity



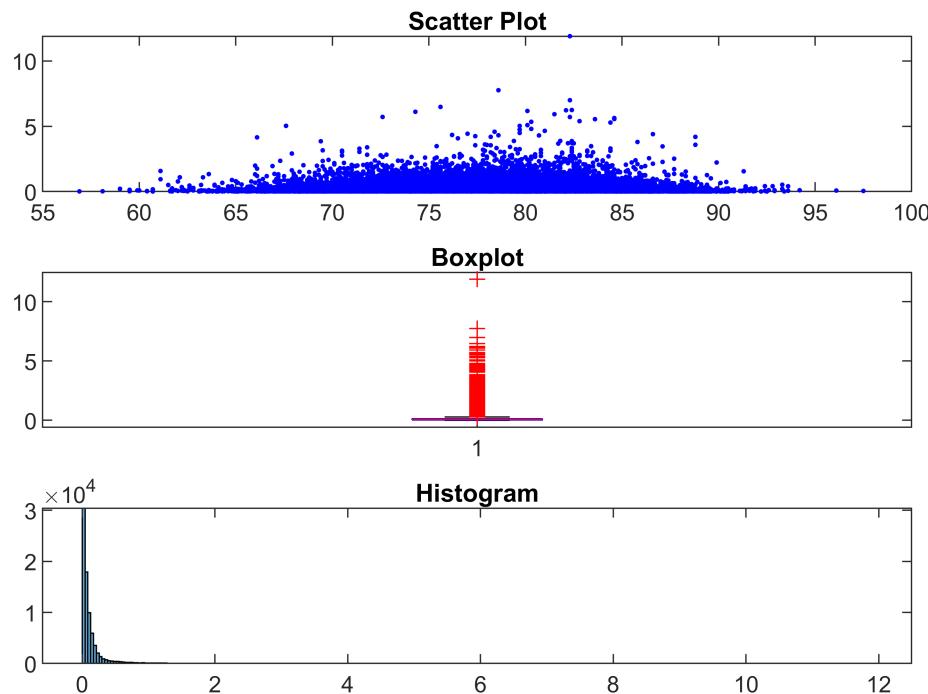
Housing Units Built Before 1960



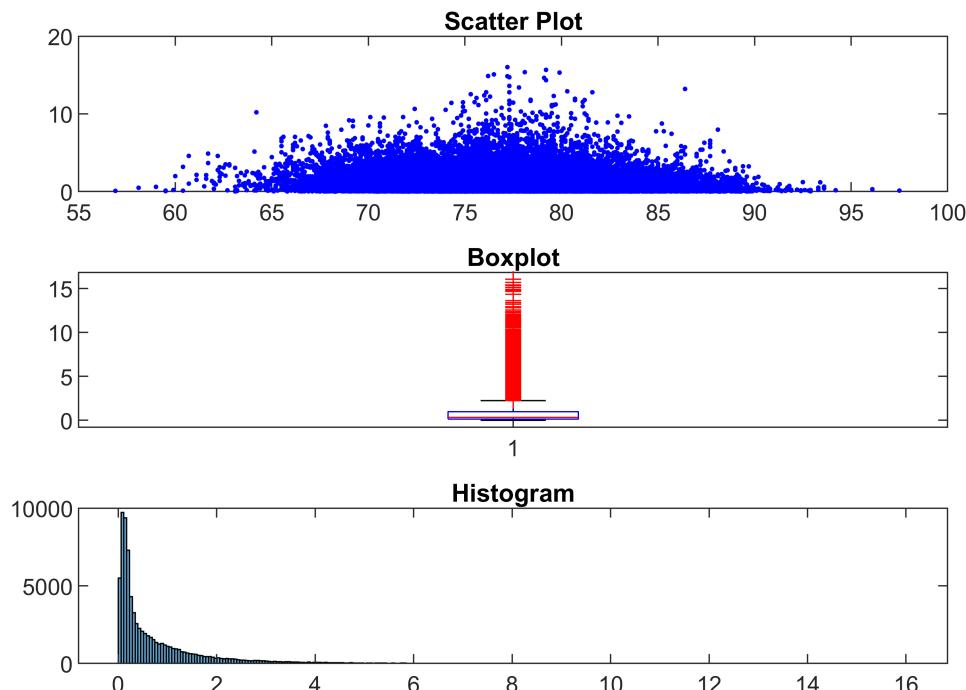
Lead Paint



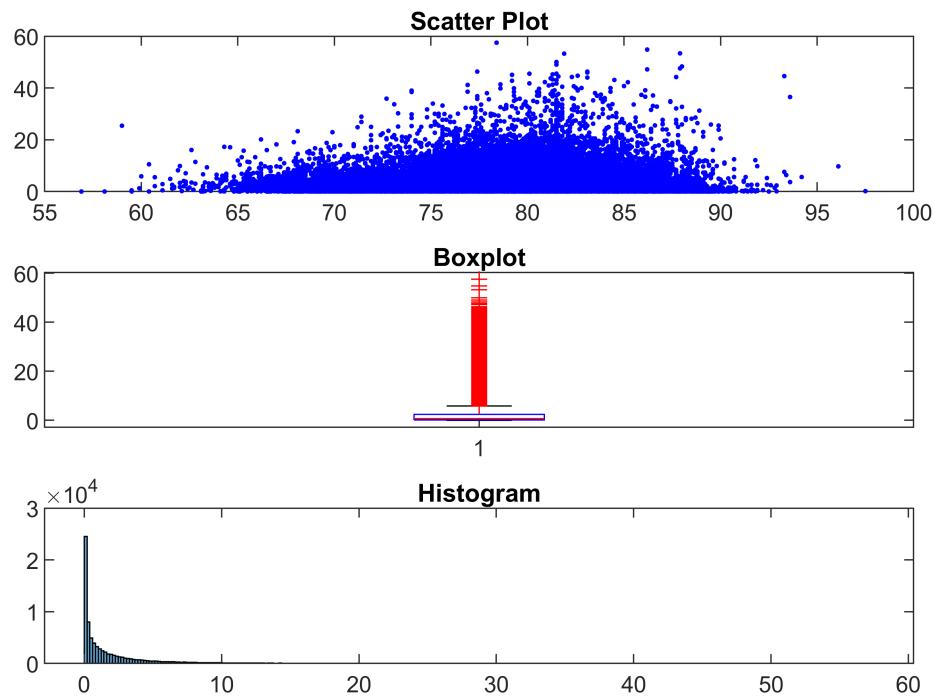
Superfund Proximity



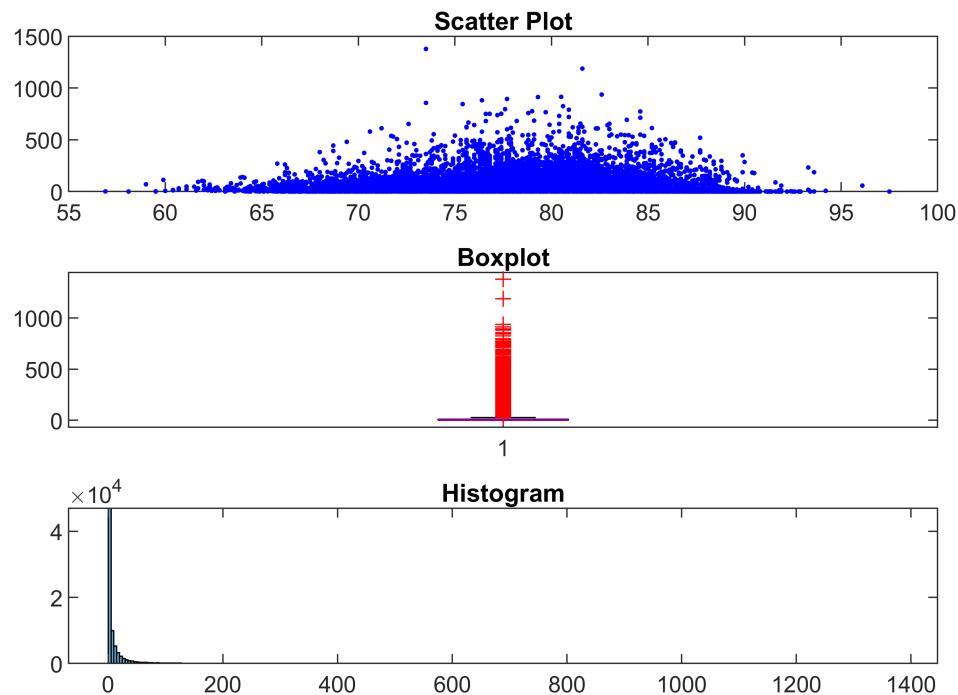
RMP Facility Proximity



Hazardous Waste Proximity



Underground Storage Tanks



Wastewater Discharge

