

```
WOPEN "C:\Users\madou\OneDrive - UCLA IT Services\1)_PS-Honors\udp_expansion\summary_udp_majority_victim_luof.csv";
FIELD;
COMMA;
TDELIMITER;
DOUBLEQUOTE;
DECSEP;
PERIOD;
SHEET 1;
VNAMES 1;
FIRST 2;
DATA;
IGNOREBLANKROWS;
EQUALCOLUMNS.
NOTE *** Data pane was used to change the worksheet
NCHART 'typology_text' 'Majority' 'victim_race';
FUNCTION 'rt_annual_10m';
SUM;
OVERLAY;
CATONLY.
WOPEN "C:\Users\madou\OneDrive - UCLA IT Services\1)_PS-Honors\udp_expansion\summary_udp_majority_victim_luof.csv";
FIELD;
COMMA;
TDELIMITER;
DOUBLEQUOTE;
DECSEP;
PERIOD;
SHEET 1;
VNAMES 1;
FIRST 2;
DATA;
IGNOREBLANKROWS;
EQUALCOLUMNS.
WOPEN "C:\Users\madou\OneDrive - UCLA IT Services\1)_PS-Honors\udp_expansion\summary_udp_majority_victim_luof.csv";
FIELD;
COMMA;
TDELIMITER;
DOUBLEQUOTE;
DECSEP;
PERIOD;
SHEET 1;
VNAMES 1;
FIRST 2;
DATA;
IGNOREBLANKROWS;
EQUALCOLUMNS.
ERASE luof_count
MEAN population
ERASE population
COPY C4 C6
COPY rt_annual_10m C4
COPY rt_annual_10m C4
WOPEN "C:\Users\madou\OneDrive - UCLA IT Services\1)_PS-Honors\udp_expansion\summary_udp_majority_victim_luof.csv";
FIELD;
COMMA;
TDELIMITER;
DOUBLEQUOTE;
DECSEP;
PERIOD;
```

SHEET 1;
VNAMES 1;
FIRST 2;
DATA;
IGNOREBLANKROWS;
EQUALCOLUMNS.

WOPEN "C:\Users\madou\OneDrive - UCLA IT Services\1)_PS-Honors\udp_expansion\summary_udp_majority_victim_luof.csv";
FIELD;
COMMA;
TDELIMITER;
DOUBLEQUOTE;
DECSEP;
PERIOD;
SHEET 1;
VNAMES 1;
FIRST 2;
DATA;
IGNOREBLANKROWS;
EQUALCOLUMNS.

NCHART 'typology_text' 'Majority' 'victim_race';
FUNCTION 'rt_annual_10m';
SUM;
OVERLAY;
CATONLY.

WOPEN "C:\Users\madou\OneDrive - UCLA IT Services\1)_PS-Honors\udp_expansion\summary_udp_majority_victim_luof.csv";
FIELD;
COMMA;
TDELIMITER;
DOUBLEQUOTE;
DECSEP;
PERIOD;
SHEET 1;
VNAMES 1;
FIRST 2;
DATA;
IGNOREBLANKROWS;
EQUALCOLUMNS.

NCHART 'typology_text' 'Majority' 'victim_race';
FUNCTION 'rt_annual_10m';
SUM;
OVERLAY.

WOPEN "C:\Users\madou\OneDrive - UCLA IT Services\1)_PS-Honors\udp_expansion\summary_udp_majority_victim_luof.csv";
FIELD;
COMMA;
TDELIMITER;
DOUBLEQUOTE;
DECSEP;
PERIOD;
SHEET 1;
VNAMES 1;
FIRST 2;
DATA;
IGNOREBLANKROWS;
EQUALCOLUMNS.

NCHART 'typology_text' 'Majority' 'victim_race';
FUNCTION 'rt_annual_10m'.

WOPEN "C:\Users\madou\OneDrive - UCLA IT Services\1)_PS-Honors\udp_expansion\summary_udp_majority_victim_luof.csv";
FIELD;

```

COMMA;
TDELIMITER;
DOUBLEQUOTE;
DECSEP;
PERIOD;
SHEET 1;
VNAMES 1;
FIRST 2;
DATA;
IGNOREBLANKROWS;
EQUALCOLUMNS.
NCHART 'typology_text' 'Majority' 'victim_race';
  FUNCTION 'rt_annual_10m'.
WOPEN "C:\Users\madou\OneDrive - UCLA IT Services\1)_PS-Honors\udp_expansion\summary_udp_majority_victim_luof.csv";
  FIELD;
  COMMA;
  TDELIMITER;
  DOUBLEQUOTE;
  DECSEP;
  PERIOD;
  SHEET 1;
  VNAMES 1;
  FIRST 2;
  DATA;
  IGNOREBLANKROWS;
  EQUALCOLUMNS.
NCHART 'typology_text' 'Majority' 'victim_race';
  FUNCTION 'rt_annual_10m'.
NCHART 'typology_text' 'Majority' 'victim_race';
  FUNCTION 'rt_annual_10m'.
NCHART 'typology_text' 'Majority' 'victim_race';
  FUNCTION 'rt_annual_10m';
  SUM.
NCHART 'typology_text' 'Majority' 'victim_race';
  FUNCTION 'rt_annual_10m';
  SUM;
  OVERLAY;
  CATONLY.
NOTE *** Data pane was used to change the worksheet
NCHART 'Typology' 'Majority' 'Victim Race';
  FUNCTION 'rt_annual_10m';
  SUM;
  OVERLAY;
  CATONLY.
Save "C:\Users\madou\OneDrive - UCLA IT Services\1)_PS-Honors\udp_expansion\udp_expansion.mpx";
  Project.
NOTE *** Data pane was used to change the worksheet
NCHART 'Typology' 'Majority' 'Victim Race';
  FUNCTION 'rt_annual_10m';
  SUM;
  OVERLAY;
  CATONLY.
Save "C:\Users\madou\OneDrive - UCLA IT Services\1)_PS-Honors\udp_expansion\udp_expansion.mpx";
  Project.
Save "C:\Users\madou\OneDrive - UCLA IT Services\1)_PS-Honors\udp_expansion\udp_expansion.mpx";
  Project.
LPLO MEAN('rt_annual_10m') * ('Typology');
  IGRAPH;

```

```
NODTITLE;
NOGRID 1;
GROUP 'Majority';
CONNECT 'Majority';
SYMBOL 'Majority';
SEPARATE 'Victim Race'.
```

```
Save "C:\Users\madou\OneDrive - UCLA IT Services\1)_PS-Honors\udp_expansion\udp_expansion.mpx";
Project.
```

```
NCHART 'Typology' 'Majority' 'Victim Race';
FUNCTION 'rt_annual_10m';
SUM.
```

```
NCHART 'Typology' 'Majority' 'Victim Race';
FUNCTION 'rt_annual_10m';
SUM;
OVERLAY
```

```
CONCAT Typology Majority C5
```

```
Save "C:\Users\madou\OneDrive - UCLA IT Services\1)_PS-Honors\udp_expansion\udp_expansion.mpx";
Project.
```

```
NCHART 'Typology' 'Majority' 'Victim Race';
FUNCTION 'rt_annual_10m';
MEAN;
OVERLAY;
CLUSTER 'Typology';
CATONLY.
```

```
Save "C:\Users\madou\OneDrive - UCLA IT Services\1)_PS-Honors\HP_PC\udp_expansion_HP\udp_expansion.mpx";
Project.
```

```
NCHART 'Typology' 'Majority' 'Victim Race';
FUNCTION 'rt_annual_10m';
MEAN.
```

```
NCHART 'Typology' 'Majority' 'Victim Race';
FUNCTION 'rt_annual_10m';
MEAN;
OVERLAY.
```

```
NCHART 'Typology' 'Majority' 'Victim Race';
FUNCTION 'rt_annual_10m';
MEAN;
OVERLAY;
CLUSTER 'Typology'.
```

```
NCHART 'Typology' 'Majority' 'Victim Race';
FUNCTION 'rt_annual_10m';
MEAN;
OVERLAY;
CLUSTER 'Victim Race';
CATONLY.
```

```
NCHART 'Typology' 'Majority' 'Victim Race';
FUNCTION 'rt_annual_10m';
OVERLAY;
CATONLY.
```

```
MTITLE "test"
```

```
endmtitle
```

```
Chart ( 'rt_annual_10m' ) * 'Typology';
Summarized;
Group 'Majority' 'Victim Race';
Title "Rate of LUOF";
Bar.
```

```
Save "C:\Users\madou\OneDrive - UCLA IT Services\1)_PS-Honors\HP_PC\udp_expansion_HP\udp_expansion.mpx";
Project.
```

```
CHART MEAN('rt_annual_10m') * 'Typology'
```

```
CHART MEAN('rt_annual_10m') * 'Typology' 'Majority'
```

```
CHART 'rt_annual_10m' * 'Typology'
```

```
CHART 'rt_annual_10m' * 'Typology'.
```

```
CHART 'rt_annual_10m' * 'Typology';
```

```
    SUMMARIZED
```

```
CHART 'rt_annual_10m' 'Typology' 'Majority'.
```

```
Chart ( 'rt_annual_10m' ) * 'Typology';
```

```
    Summarized;
```

```
    Group 'Majority' 'Victim Race';
```

```
    Title "Rate of LUOF";
```

```
    Bar.
```

```
Chart ( 'rt_annual_10m' ) * 'Typology';
```

```
    Summarized;
```

```
    Group 'Majority' 'Victim Race';
```

```
    Overlay;
```

```
    Title "Rate of LUOF";
```

```
    Bar.
```

```
NCHART 'Typology' 'Majority' 'Victim Race';
```

```
    FUNCTION 'rt_annual_10m';
```

```
    SUM;
```

```
    OVERLAY;
```

```
    CLUSTER 'Victim Race';
```

```
    CATONLY.
```

```
CHAR 'rt_annual_10m'.
```

```
CHAR 'rt_annual_10m';
```

```
    GROUP 'Typology' 'Majority';
```

```
    BAR 'rt_annual_10m'.
```

```
CHAR 'Typology' ;
```

```
    GROUP 'Typology' 'Majority';
```

```
    BAR 'rt_annual_10m'.
```

```
CHAR 'Typology' ;
```

```
    GROUP 'rt_annual_10m' 'Typology' 'Majority';
```

```
    BAR.
```

```
CHAR 'Typology' ;
```

```
    GROUP 'rt_annual_10m' 'Majority';
```

```
    BAR 'Typology'.
```

```
CHAR 'Typology' ;
```

```
    GROUP 'rt_annual_10m' 'Majority';
```

```
    BAR .
```

```
CHAR 'Victim Race' ;
```

```
    GROUP 'rt_annual_10m' 'Majority';
```

```
    BAR 'Typology'.
```

```
CHAR 'Victim Race' ;
```

```
    GROUP 'Majority';
```

```
    BAR 'rt_annual_10m'.
```

```
CHAR 'Victim Race' ;
```

```
    GROUP 'Majority' 'Typology' ;
```

```
    BAR 'rt_annual_10m'.
```

```
CHAR 'Victim Race' ;
```

```
    GROUP 'Majority' 'Typology' 'Victim Race';
```

```
    BAR 'rt_annual_10m'.
```

```
CHAR 'rt_annual_10m';
```

```
    GROUP 'Majority' 'Typology';
```

```
    BAR 'rt_annual_10m'.
```

```
CHAR 'rt_annual_10m';
```

```
    GROUP 'Majority' 'Typology';
```

```
    BAR 'rt_annual_10m';
```

```
    OVER.
```

```

CHAR 'rt_annual_10m';
  GROUP 'Majority' 'Typology' 'Victim Race';
  BAR 'Victim Race'.
CHAR 'rt_annual_10m';
  GROUP 'Majority' 'Typology' 'Victim Race';
  BAR 'Victim Race' 'Majority'.
CHAR 'rt_annual_10m';
  GROUP 'Majority' 'Typology' 'Victim Race';
  BAR 'Majority' 'Typology' 'Victim Race' .
CHAR 'rt_annual_10m';
  GROUP 'Majority' 'Typology' 'Victim Race';
  BAR 'Majority' 'Typology' 'Victim Race';
  OVER.
CHAR 'rt_annual_10m';
  GROUP 'Majority' 'Typology' 'Victim Race';
  BAR 'Majority' 'Typology' 'Victim Race'.
CHAR 'rt_annual_10m';
  GROU 'Majority' 'Typology' 'Victim Race';
  BAR 'Majority' 'Typology' 'Victim Race'.
INTP 'rt_annual_10m' * 'Majority';
  BAR 'Majority' 'Typology' 'Victim Race'.
INTP 'rt_annual_10m' * 'Majority';
  BAR 'Majority'.
INTP 'rt_annual_10m' * 'Majority';
  GROU 'Victim Race';
  BAR 'Majority'.
INTP 'rt_annual_10m' * 'Majority';
  BAR 'Majority'.
INTP 'rt_annual_10m' * 'Majority';
  GROU 'Victim Race' 'Typology' ;
  BAR 'Majority'.
INTP 'rt_annual_10m';
  GROU 'Victim Race' 'Typology' ;
  BAR 'Majority'.
INTP 'rt_annual_10m' * 'Victim Race';
  GROU 'Victim Race' 'Typology' ;
  BAR 'Victim Race'.
INTP 'rt_annual_10m' * 'Victim Race';
  GROU 'Victim Race' 'Typology' ;
  BAR 'Victim Race'.
INTP 'rt_annual_10m' * 'Victim Race';
  GROU 'Majority' 'Typology' ;
  BAR 'Victim Race'.
INTP 'rt_annual_10m' * 'Victim Race'.
INTP 'rt_annual_10m' * 'Victim Race';
  GROU 'Majority' 'Typology' ;
  BAR.
INTP 'rt_annual_10m' * 'Victim Race';
  GROU 'Majority' 'Typology' ;
  BAR 'Typology' .
INTP 'rt_annual_10m' * 'Victim Race';
  GROU 'Majority' 'Typology' ;
  TITLE "Rate of LUOFs, 2015-2020";
  BAR 'Typology' .
INTP 'rt_annual_10m' * 'Victim Race';
  GROU 'Majority' 'Typology' ;
  TITLE "Rate of LUOFs, 2015-2020";
  AXLABEL 1 "Typology/Majority";

```

```

AXLABEL 2 "Annual Rate per 10 Million Population";
BAR 'Typology' .
INTP 'rt_annual_10m' * 'Typology' ;
GROU 'Majority' 'Victim Race' ;
TITLE "Rate of LUOFs, 2015-2020";
AXLABEL 1 "Typology/Majority";
AXLABEL 2 "Annual Rate per 10 Million Population";
BAR 'Victim Race'.
INTP 'rt_annual_10m' * 'Typology' ;
GROU 'Majority' 'Victim Race' ;
TITLE "Rate of LUOFs, 2015-2020";
AXLABEL 1 "Typology/Majority";
AXLABEL 2 "Annual Rate per 10 Million Population";
NOPERFOOTNOTE;
BAR 'Victim Race'.
INTP 'rt_annual_10m' * 'Typology' ;
GROU 'Majority' 'Victim Race' ;
TITLE "Rate of LUOFs, 2015-2020";
AXLABEL 1 'BLAH';
AXLABEL 2 "Annual Rate per 10 Million Population";
BAR 'Victim Race'.
INTP 'rt_annual_10m' * 'Typology' ;
GROU 'Majority' 'Victim Race' ;
TITLE "Rate of LUOFs, 2015-2020";
AXLABEL 2 "Annual Rate per 10 Million Population";
BAR 'Victim Race'.
Save "C:\Users\madou\OneDrive - UCLA IT Services\1)_PS-Honors\HP_PC\udp_expansion_HP\udp_expansion.mpx";
Project.
Save "C:\Users\madou\OneDrive - UCLA IT Services\1)_PS-Honors\HP_PC\udp_expansion_HP\udp_expansion.mpx";
Project.
Save "C:\Users\madou\OneDrive - UCLA IT Services\1)_PS-Honors\HP_PC\udp_expansion_HP\udp_expansion.mpx";
Project.
Save "C:\Users\madou\OneDrive - UCLA IT Services\1)_PS-Honors\HP_PC\udp_expansion_HP\udp_expansion.mpx";
Project.
Save "C:\Users\madou\OneDrive - UCLA IT Services\1)_PS-Honors\HP_PC\udp_expansion_HP\udp_expansion.mpx";
Project.
WOPEN "C:\Users\madou\Downloads\all_tracts.csv";
FIELD;
COMMA;
TDELIMITER;
DOUBLEQUOTE;
DECSEP;
PERIOD;
DATA;
IGNOREBLANKROWS;
EQUALCOLUMNS;
SHEET 1;
VNAMES 1;
FIRST 2.
WOPEN "C:\Users\madou\Downloads\all_tracts.csv";
FIELD;
COMMA;
TDELIMITER;
DOUBLEQUOTE;
DECSEP;
PERIOD;
DATA;
IGNOREBLANKROWS;

```

```

EQUALCOLUMNS;
SHEET 1;
VNAMES 1;
FIRST 2.
WOPEN "C:\Users\madou\Downloads\all_tracts.csv";
FIELD;
COMMA;
TDELIMITER;
DOUBLEQUOTE;
DECSEP;
PERIOD;
DATA;
IGNOREBLANKROWS;
EQUALCOLUMNS;
SHEET 1;
VNAMES 1;
FIRST 2.
HELP
INTP 'Annual Rt Per 10 Mil Population' * 'Typology' ;
GROU 'Majority' 'Victim Race' ;
TITLE "Rate of LUOFs, 2015-2020";
AXLABEL 2 "Annual Rate per 10 Million Population";
BAR 'Victim Race'.
Save "C:\Users\madou\OneDrive - UCLA IT Services\1)_PS-Honors\HP_PC\udp_expansion_HP\udp_expansion.mpx";
Project.
nchart C1 C4
NCHART 'Typology' 'Majority' 'Victim Race' 'Annual Rt Per 10 Mil Population';
OVERLAY.
NCHART 'Typology' 'Majority' 'Victim Race' 'Annual Rt Per 10 Mil Population';
OVERLAY;
FUNCTION 'Annual Rt Per 10 Mil Population'.
NCHART 'Typology' 'Majority' 'Victim Race' 'Annual Rt Per 10 Mil Population';
OVERLAY;
FUNCTION 'Annual Rt Per 10 Mil Population';
MEAN.
NCHART 'Typology' 'Majority' 'Victim Race';
FUNCTION 'Annual Rt Per 10 Mil Population';
OVERLAY;
CATONLY.
NCHA 'Typology' 'Majority' 'Victim Race';
FUNC 'Annual Rt Per 10 Mil Population';
OVER;
CLUS 'Victim Race';
CATONLY.

```