

Highest Violent Crime Arrests of Adults in 14 Massachusetts Counties in 1998

Li-heng Henry Tsau

GGR 320 Fall

Dr. Luna

12.11.2007

Introduction

- **Highest rate of arrest of Part 1 violent crimes within 14 Massachusetts counties in 1998 based on adults.**
- **Criminal Justice Major.**
- **This topic is significant based on the utilization of crime statistics collected in a particular year by State Police agencies throughout MA to identify and map out, producing visuals of violent crime arrests.**

Objectives

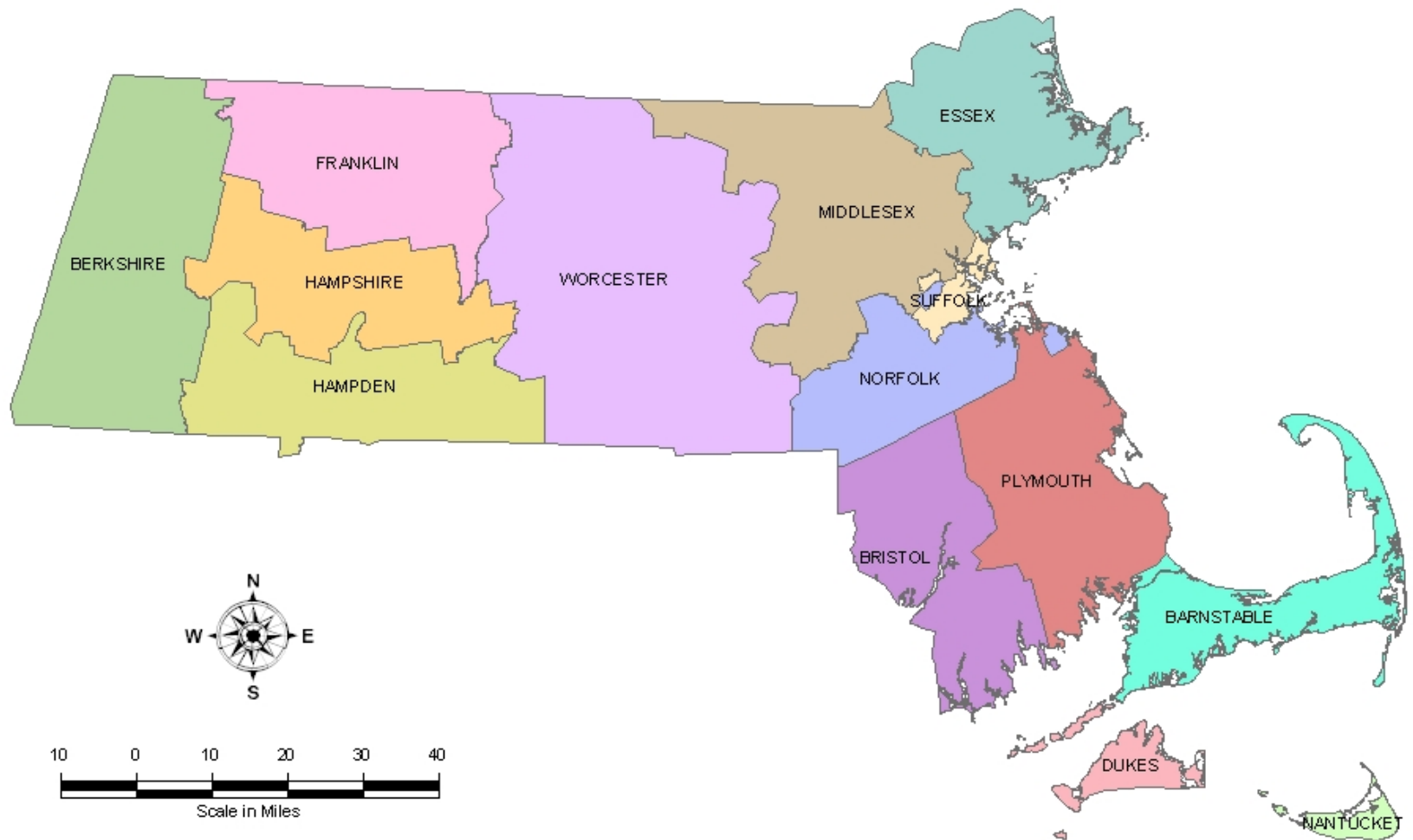
- To know in which county the highest rate of adults were arrested for commission of violent crimes in 1998.
- To know why arrests are made more in one county than others.
- To show how crime statistics and data are used in GIS in terms of crime mapping.
- To produce a map showing the highest violent crimes arrests in 14 counties in Massachusetts.

Methods and Data

- ❑ **Counties, and crime statistics.**
- ❑ **Download county layers and retrieve crime statistics from Boston State Police website.**
- ❑ **Excel the data - join attributes (counties) – create graduated map.**

PROCESS...

County Layer



Crime Statistics in Excel

Process...

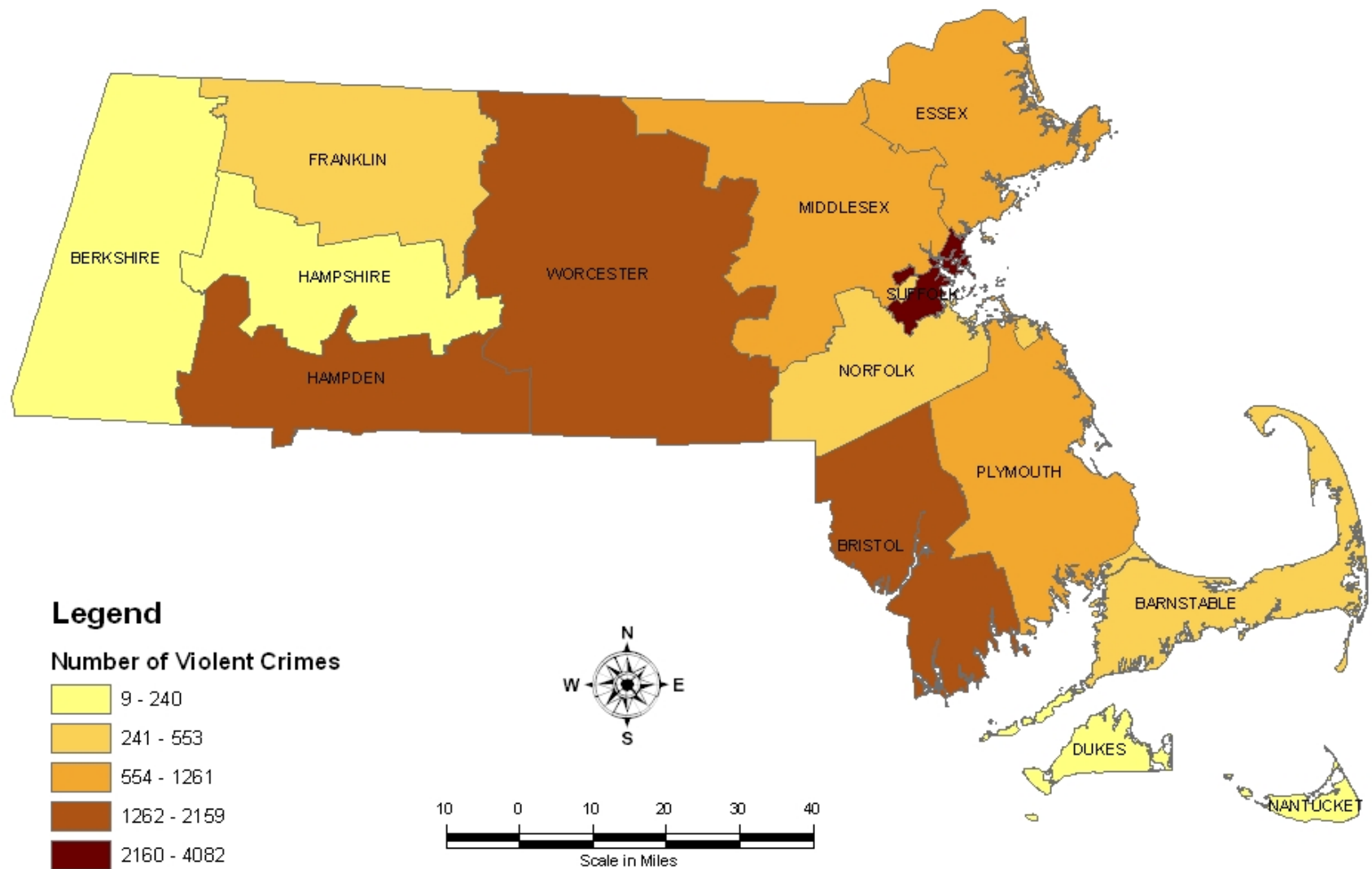
COUNTY	Violent	Property	Drugs	DUIL	All_Other	GrandTotal
Barnstable	460	496	469	1263	3063	5751
Berkshire	216	272	267	451	1455	2661
Bristol	1608	1962	1960	1685	7291	14506
Dukes	22	20	44	101	129	316
Essex	1081	1103	1381	1541	6927	12033
Franklin	418	148	165	225	1458	2414
Hampden	1694	1388	2817	1157	9873	16929
Hampshire	240	170	248	404	1309	2371
Middlesex	1261	1565	1175	2004	7592	13597
Nantucket	9	13	11	46	113	192
Norfolk	553	1520	1008	1223	5741	10045
Plymouth	815	828	1091	1187	3947	7868
Suffolk	4082	3036	4959	972	7954	21003
Worcester	2159	1903	3371	3213	12167	22813

Attribute Table Join

Process...

OBJECTID	FIPS_ID	COUNTY	VIOLENT	PROPERTY	DRUGS	DUIL	ALL_OTHER	GRANDTOTAL
2	25003	BERKSHIRE	216	272	267	451	1455	2661
3	25005	BRISTOL	1608	1962	1960	1685	7291	14506
4	25007	DUKES	22	20	44	101	129	316
5	25009	ESSEX	1081	1103	1381	1541	6927	12033
1	25001	BARNSTABLE	460	496	469	1263	3063	5751
8	25015	HAMPSHIRE	240	170	248	404	1309	2371
9	25017	MIDDLESEX	1261	1565	1175	2004	7592	13597
6	25011	FRANKLIN	418	148	165	225	1458	2414
7	25013	HAMPDEN	1694	1388	2817	1157	9873	16929
10	25019	NANTUCKET	9	13	11	46	113	192
11	25021	NORFOLK	553	1520	1008	1223	5741	10045
12	25023	PLYMOUTH	815	828	1091	1187	3947	7868
13	25025	SUFFOLK	4082	3036	4959	972	7954	21003
14	25027	WORCESTER	2159	1903	3371	3213	12167	22813

Product...



Conclusion/Discussion

- Identify violent crime arrests by counties
- Finding data, forgetting steps, and refresher sessions
- Compare with number of police stations in each county, population, ethnicity, race, gender, age, annual household income, education level.

Citations and Sources

- www.mass.gov/mgis
- <http://db.state.ma.us/msp/select.asp>