

Summary Report of Violent Arrest Data, January 2014 – April 2016

Lallen T. Johnson and Ralph B. Taylor

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Introduction

This report describes monthly arrest patterns, city wide and at the police district levels, for serious violent incidents (homicides, robberies, and aggravated assaults) conducted by the Chicago Police Department from January 2014 to April 2016.¹ Its format parallels another report for all arrests (Summary Report of Arrest Data, January 2014 – April 2016). The data compiled and presented provide a sketch of changes in arrests for violent incidents over time.

This report's purpose is *purely descriptive*. It will not form inferences about any changes in violence rates. In other words, interpretations of data patterns offered here merely tell what *is* happening where and when, according to these indicators, as opposed *why*.

The data presented here will play a role in another report presenting ecological analyses of investigative stop reports (ISRs). Per discussion of the ecological analysis plans with the parties' experts, the data presented here serve as one of three denominators for those ecological analyses of investigative stop reports (ISRs).²

The report presents three major items: 1) city-level counts and rates of arrests for violent incidents for all races/ethnicities, by month, for 28 months (Jan 2014 – April 2016); 2) district-level counts and rates of arrests for violent incidents by race/ethnicity, by month, for the same period, for the three largest race/ethnicity combinations in the city (Non-Hispanic Blacks, Non-Hispanic Whites, and Hispanic Whites); and 3) quantile thematic maps of arrest rates for Non-Hispanic Blacks, Non-Hispanic Whites, and Hispanic Whites for the first four months of 2014, and the first four months of 2016. All analyses exclude arrests associated with the 31st district, as these events occurred outside of the Chicago city limits.³

Monthly Violent Arrest Counts and Rates

¹ In line with existing research, we exclude arrests for rape considering that such a measure is rife with reporting and recording biases (Boggess and Hipp, 2010; Peterson and Krivo, 2010; Gottfredson and Gottfredson, 1988). Statute descriptions of arrests included in this analysis are listed in Appendix A.

² Those experts were Sharad Goel, Aziz Huq, Jens Ludwig and Justin McCrary. Technically, the variables noted here will serve as exposure variables in count models.

³ A total of 7,843 arrests for the classes of violent incidents indicated above (homicides, robberies, aggravated assaults) occurred from January 2014 to April 2016. Of those, 176 arrest records, or 2.2% were missing data on the district variable. Our communication with Officer Joseph Candella of the Chicago Police Department, indicated that cases with missing district information were likely arrests that occurred outside of the city and should be associated with the 31st district. He also indicated that a small proportion of the cases could not be geocoded due to address entry errors. We decided to exclude all cases with missing district information considering that they represent such a small fraction of the dataset, and because they are generally outside of the study area. This leaves a total violent arrest count of 7,667.

Table 1 displays monthly violent arrest counts and rates for the city of Chicago from January 2014 to April of 2016 for all races/ethnicities (column labeled “All”), Non-Hispanic Blacks (column labeled “Black”), Non-Hispanic Whites (column labeled “White”) and Hispanic Whites (column labeled “Hispanic”). Violent arrest rates are calculated as the ratio of race/ethnicity-specific arrests to the race/ethnicity-specific population. After, that ratio is multiplied by 10,000. As such, arrest rates can be interpreted as the number of expected arrests, normalized for every 10,000 residents of said racial/ethnic group. The respective population denominators are derived from the American Community Survey.⁴

To be clear, the columns labeled “All” are for the entire city-wide or district-wide population, regardless of race or ethnicity. The columns labeled “Black,” “White,” and “Hispanic” have both numerators (violent arrest counts) and, as relevant, denominators (population counts), that are each specific to one of three race/ethnic combinations: Non-Hispanic Blacks, Non-Hispanic Whites, and Hispanic Whites.

⁴ More specifically, the following 2010-2014 ACS variables were used as denominators.

For Non-Hispanic Blacks: B03002004 (ACS total = 880,066)

For Non-Hispanics Whites: B03002003 (ACS total = 980,789)

For Hispanic Whites: B03002013 (ACS total = 469,978)

Table 1: City-Level Violent Arrest Counts and Rates

Month and Year	Counts				Rates per 10,000 Population			
	All	Black	White	Hispanic	All	Black	White	Hispanic
Jan-14	266	210	12	40	0.98	2.47	0.14	0.91
Feb-14	258	207	17	27	0.95	2.43	0.20	0.61
Mar-14	305	244	13	45	1.13	2.86	0.15	1.02
Apr-14	295	243	9	35	1.09	2.85	0.10	0.79
May-14	352	282	14	52	1.30	3.31	0.16	1.18
Jun-14	373	300	12	56	1.38	3.52	0.14	1.27
Jul-14	344	272	16	50	1.27	3.19	0.18	1.14
Aug-14	332	255	20	55	1.23	2.99	0.23	1.25
Sep-14	328	261	15	46	1.21	3.06	0.17	1.04
Oct-14	356	276	25	48	1.31	3.24	0.29	1.09
Nov-14	231	184	12	30	0.85	2.16	0.14	0.68
Dec-14	262	209	21	31	0.97	2.45	0.24	0.70
Jan-15	229	191	7	28	0.85	2.24	0.08	0.64
Feb-15	194	154	12	26	0.72	1.81	0.14	0.59
Mar-15	234	182	7	40	0.86	2.14	0.08	0.91
Apr-15	244	182	12	43	0.90	2.14	0.14	0.98
May-15	303	214	22	61	1.12	2.51	0.25	1.39
Jun-15	285	216	17	47	1.05	2.54	0.20	1.07
Jul-15	299	231	17	49	1.10	2.71	0.20	1.11
Aug-15	288	221	21	42	1.06	2.59	0.24	0.95
Sep-15	315	238	15	54	1.16	2.79	0.17	1.23
Oct-15	238	200	10	26	0.88	2.35	0.11	0.59

Nov-15	212	171	10	25	0.78	2.01	0.11	0.57
Dec-15	187	152	7	26	0.69	1.78	0.08	0.59
Jan-16	234	179	12	40	0.86	2.10	0.14	0.91
Feb-16	206	164	11	31	0.76	1.93	0.13	0.70
Mar-16	258	192	8	50	0.95	2.25	0.09	1.14
Apr-16	239	188	13	35	0.88	2.21	0.15	0.79

Across all races and ethnicities, a total of 7,667 arrests for violent incidents occurred in the city from January 2014 – April 2016. Annually, 3,702 occurred in 2014, 3,028 in 2015, and 937 from January through April 2016. The violent arrest count dropped 18.2 percent from 2014 to 2015. Looking just at the first four months of 2016, and comparing violent arrests to the violent arrest counts in the same months in 2015, this class of arrests went up 4 percent from 901 to 937.

Among specific races and ethnicities for each year and the four-month period January-April of 2016, Non-Hispanic Blacks demonstrated the highest within-year average monthly arrest rates, per 10,000 resident population (2.88 in 2014, 2.30 in 2015, and 2.12 in 2016). Considering unweighted monthly arrest rates for this group, the average monthly violent arrest rate dropped 20.1 percent from 2014 to 2015. Looking at just the first four months of 2015 and the same period in 2016, the unweighted average monthly arrest rate for this group increased 1.9 percent (2.08 up to 2.12).

The within-year average monthly arrest rates of Non-Hispanic Whites were the lowest of the three groups (0.18 in 2014, 0.15 in 2015, and 0.13 in 2016). For this group the unweighted average monthly arrest rate fell 16.7 percent from 2014 to 2015. Looking at just the first four months of 2015 and the same period in 2016, the unweighted average monthly arrest rate for this group increased 15.9 percent (.11 up to .128).

The Hispanic within-year average monthly arrest rates fell in the middle of the rates of the other two racial/ethnic groups (0.97 in 2014, 0.88 in 2015, and 0.89 in 2016). For Hispanics the unweighted average monthly arrest rate declined 9.3 percent from 2014 to 2015. Looking at just the first four months of 2015 and the same period in 2016, the unweighted average monthly arrest rate for this group increased 13.5 percent (.78 up to .885).

Figures 1 and 2 display line graphs of monthly violent arrest counts and rates, respectively. Visual inspection of Figure 2 indicates a slight decrease in the violent arrests rate trend for all groups between January 2014 to April of 2016 (solid black line). More specifically, the arrest rate in January 2014 was at 0.98 per 10,000 residents. It then peaked at about 1.38 in June 2014 before beginning a slight downward trend through September of the same year. By October, the trend increased again to 1.31. A steep decline followed with rates bottoming out at 0.72 in February 2015. This was followed by a notable increase through May. The period of May through September 2015 witnessed a slight increase in arrest activity that peaked around 1.16. A downward trend followed with rates bottoming out at 0.69 in December 2015, increasing to 0.86 in January 2016 and remaining relatively steady thereafter.

Throughout the entire series, the Non-Hispanic Black arrest rate surpassed the general (All) rate by about twofold. The Non-Hispanic Black rate increased from 2.47 per 10,000 in January 2014 to 3.52 by June of the same year. By February of 2015, the Non-Hispanic Black violent arrest rate fell to 1.81. The trend then reversed, increasing again to 2.79 in September, and then remaining around 2 per 10,000 in 2016, perhaps increasing somewhat.

The arrest rate of Hispanics closely followed the general arrest rate trend, with many monthly rates slightly below the “All” rate and a few months above that rate.

Notwithstanding small, sporadic increases, the Non-Hispanic White rate remained below 0.3 violent arrests per 10,000 per month for the entire series.

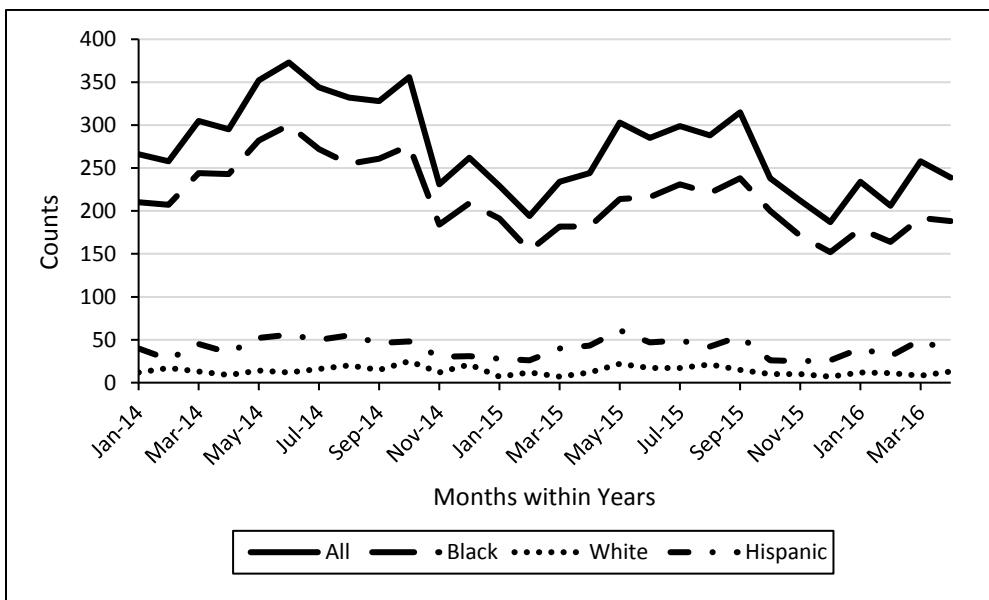


Figure 1: Chicago Monthly Violent Arrest Counts, Jan 2014 - Apr 2016

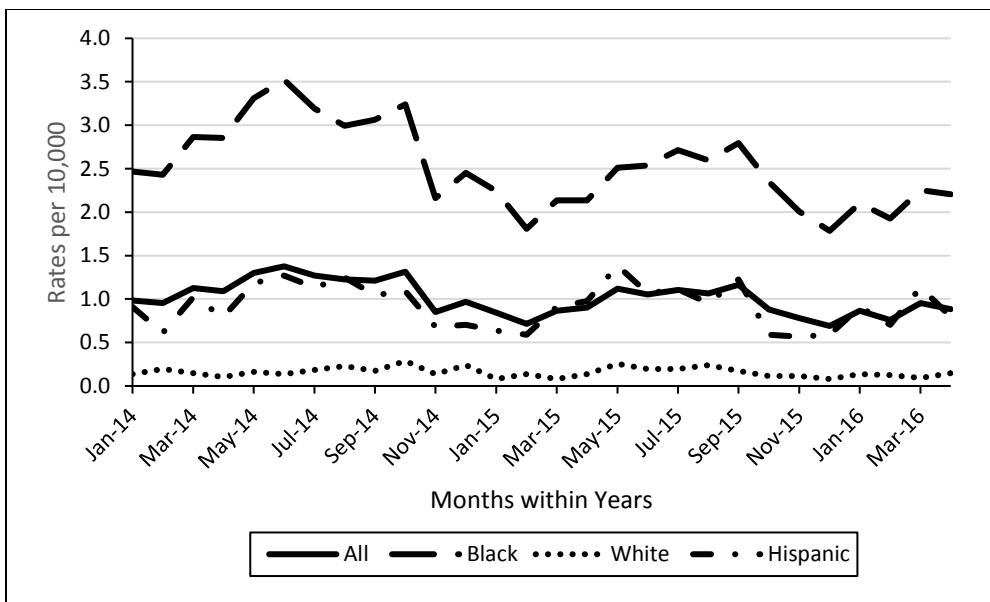


Figure 2: Chicago Monthly Violent Arrest Rates, Jan 2014 - Apr 2016

District-level monthly violent arrest counts and rates by race and ethnicity are shown in APPENDIX B.

Maps of District-level Monthly Violent Arrest Rates

Thematic maps display data associated with places—in this case, police districts. Each map reveals district-level violent arrest rates for a given month, organized by five quantiles. Each quantile is designed to include 20 percent of Chicago's 22 police districts. The lowest quantile, indicated by the lightest gray shading on each map, denotes districts where the violent arrest rate for the specified month fell within the lowest 20 percent of districts. The highest quantile, indicated by the darkest shading on each map, identifies districts where violent arrest rates fell within the highest 20 percent of districts.⁵ The 31st district, denoted by the cross-hatched features in each map, is excluded; arrests in these areas occurred outside of the Chicago city limits. Arrest rate maps appear for the first four months of 2014 and 2016. One map appears for each of the three racial/ethnic groups of key interest: Non-Hispanic Blacks, Non-Hispanic Whites and Hispanic Whites (APPENDICES C – Z).

Visual inspection of Appendices C - J indicate that the highest violent arrest rates for Non-Hispanic Blacks were spatially concentrated primarily in the western and northern districts of Chicago, with the exception of the 4th district in the southeastern corner of the city. In the first four months of 2014 the following districts appeared at least once in the top 20 percent of districts on Black violent arrest rates: the 16th, 9th, 19th, 10th, 17th, 18th, and 1st districts.

⁵ In some maps each quantile, i.e., each shaded group, will not be able to include 20 percent of districts. This happens when many districts have the same score, like a rate of zero.

Districts falling within the lowest quantile tended to be scattered across the northern section of the city as well during various months, but a few were also located in the southern portion (22nd, 6th, and 7th districts).

Violent arrest rates for Non-Hispanic Whites appear in APPENDICES K - R. Violent arrest rates for this group are generally low, often less than 1 per 10,000. Further, the vast majority of districts on any given month have rates of zero for this racial/ethnic group. So this rate represented the lowest quantile. In fact, 16 districts fell within the lowest quantile (rate = 0.00) in January 2014 and 2016. The map series shows that over time, higher arrest rates appeared in various districts scattered across the city.

Violent arrest rates for Hispanics are mapped in APPENDICES S-Z. Oftentimes, some districts in the highest quantile of districts based on arrests of Hispanics for violent offenses clustered west and southwest of The Loop (e.g., Appendices W, X, Y). And, some of these districts experienced increases in violent arrest rates over time from January 2014 to February 2016 (1st, 10th, and 12th). There are some spatial outliers to this pattern, however. For example, the 17th, 19th, 20th, and 24th districts in the far north, and the 4th, 5th, and 22nd districts to the south sometimes appeared in the highest violent arrest rate grouping of districts.

APPENDIX A: Statute Descriptions of Violent Arrests

Aggravated Assault

AGG ASSAULT CORR/PROBATION OFF
AGG ASSAULT HANDICAPPED/60+
AGG ASSAULT PC OFFICER/VOLUNTEER
AGG ASSAULT SPORTS OFFICIAL/COACH
AGG ASSAULT TO A GOV'T EMPLOYEE
AGG ASSAULT- VOLUNTEER
AGG ASSAULT/DISCH FIR/MTR VEHICLE
AGG ASSAULT/DISCHARGE FIREARM
AGG ASSAULT/OFFICER/FIREARM
AGG ASSAULT/OP MOTOR VEH/PC OFF
AGG ASSAULT/OP MOTOR VEH/STRUCK
AGG ASSAULT/PARK DISTRICT EMP
AGG ASSAULT/PD/SHERIFF EMP W/FIR
AGG ASSAULT/PEACE OFFICER/WEAPON
AGG ASSAULT/POLICE/SHERIFF EMP
AGG ASSAULT/PRIVATE SEC OFF
AGG ASSAULT/PROCESS SERVER
AGG ASSAULT/STATE OF IL EMP
AGG ASSAULT/TRANSIT EMPLOYEE
AGG ASSAULT/USE DEADLY WEAPON
AGG ASSAULT/USE FIR/PEACE OFF
AGG ASSAULT/WEAR HOOD/ROBE

Robbery

ROBBERY
ROBBERY - AGGRAVATED
ROBBERY - AGG ROBBERY/INDICATE ARM W/FIR
ROBBERY - ARMED - DISCHARGE FIREARM
ROBBERY - ARMED - DISCHARGE FIREARM/BODILY HARM
ROBBERY - ARMED - OTHER DANGEROUS WEAPON
ROBBERY - ARMED W/ FIREARM
ROBBERY/SCH/DAY CARE/WORSHIP
ROBBERY/VIC HANDICAP OR 60+ YR

Homicide

MURDER - FIRST DEGREE
MURDER - OTHER FORCIBLE FELONY
MURDER - SECOND DEGREE MURDER
MURDER - SOLICITATION FOR HIRE
MURDER - STRONG PROBABILITY DEATH/INJURE

APPENDIX B: District-Level Monthly Violent Arrest Counts and Rates

District	Month and Year	Counts				Rates per 10,000 population			
		All	Black	White	Hispanic	All	Black	White	Hispanic
01	Jan-14	4	2	0	2	0.60	1.42	0.00	8.03
01	Feb-14	4	4	0	0	0.60	2.85	0.00	0.00
01	Mar-14	5	5	0	0	0.75	3.56	0.00	0.00
01	Apr-14	13	13	0	0	1.94	9.26	0.00	0.00
01	May-14	11	11	0	0	1.64	7.83	0.00	0.00
01	Jun-14	10	8	1	0	1.49	5.70	0.30	0.00
01	Jul-14	10	10	0	0	1.49	7.12	0.00	0.00
01	Aug-14	8	5	1	2	1.20	3.56	0.30	8.03
01	Sep-14	11	9	1	1	1.64	6.41	0.30	4.02
01	Oct-14	7	6	1	0	1.05	4.27	0.30	0.00
01	Nov-14	6	6	0	0	0.90	4.27	0.00	0.00
01	Dec-14	4	3	0	1	0.60	2.14	0.00	4.02
01	Jan-15	3	3	0	0	0.45	2.14	0.00	0.00
01	Feb-15	6	5	1	0	0.90	3.56	0.30	0.00
01	Mar-15	9	7	0	1	1.35	4.99	0.00	4.02
01	Apr-15	2	2	0	0	0.30	1.42	0.00	0.00
01	May-15	6	5	1	0	0.90	3.56	0.30	0.00
01	Jun-15	8	7	0	0	1.20	4.99	0.00	0.00
01	Jul-15	7	7	0	0	1.05	4.99	0.00	0.00
01	Aug-15	9	6	1	1	1.35	4.27	0.30	4.02
01	Sep-15	19	16	1	2	2.84	11.39	0.30	8.03
01	Oct-15	11	10	1	0	1.64	7.12	0.30	0.00
01	Nov-15	10	9	1	0	1.49	6.41	0.30	0.00
01	Dec-15	3	3	0	0	0.45	2.14	0.00	0.00
01	Jan-16	7	7	0	0	1.05	4.99	0.00	0.00
01	Feb-16	17	14	1	2	2.54	9.97	0.30	8.03
01	Mar-16	11	10	1	0	1.64	7.12	0.30	0.00
01	Apr-16	6	6	0	0	0.90	4.27	0.00	0.00
02	Jan-14	16	14	0	1	1.67	2.11	0.00	7.15
02	Feb-14	12	12	0	0	1.25	1.81	0.00	0.00
02	Mar-14	16	16	0	0	1.67	2.41	0.00	0.00
02	Apr-14	15	12	0	3	1.57	1.81	0.00	21.45
02	May-14	35	31	0	4	3.66	4.67	0.00	28.59
02	Jun-14	19	18	0	1	1.99	2.71	0.00	7.15
02	Jul-14	24	22	0	2	2.51	3.31	0.00	14.30
02	Aug-14	19	19	0	0	1.99	2.86	0.00	0.00
02	Sep-14	17	14	0	3	1.78	2.11	0.00	21.45
02	Oct-14	18	18	0	0	1.88	2.71	0.00	0.00

02	Nov-14	10	6	2	2	1.05	0.90	1.15	14.30
02	Dec-14	11	11	0	0	1.15	1.66	0.00	0.00
02	Jan-15	19	19	0	0	1.99	2.86	0.00	0.00
02	Feb-15	5	5	0	0	0.52	0.75	0.00	0.00
02	Mar-15	7	7	0	0	0.73	1.05	0.00	0.00
02	Apr-15	22	22	0	0	2.30	3.31	0.00	0.00
02	May-15	11	10	0	1	1.15	1.51	0.00	7.15
02	Jun-15	11	9	1	1	1.15	1.36	0.57	7.15
02	Jul-15	15	14	1	0	1.57	2.11	0.57	0.00
02	Aug-15	9	9	0	0	0.94	1.36	0.00	0.00
02	Sep-15	10	10	0	0	1.05	1.51	0.00	0.00
02	Oct-15	15	15	0	0	1.57	2.26	0.00	0.00
02	Nov-15	11	11	0	0	1.15	1.66	0.00	0.00
02	Dec-15	3	3	0	0	0.31	0.45	0.00	0.00
02	Jan-16	10	10	0	0	1.05	1.51	0.00	0.00
02	Feb-16	8	8	0	0	0.84	1.20	0.00	0.00
02	Mar-16	11	11	0	0	1.15	1.66	0.00	0.00
02	Apr-16	15	14	1	0	1.57	2.11	0.57	0.00
03	Jan-14	18	18	0	0	2.31	2.54	0.00	0.00
03	Feb-14	15	15	0	0	1.92	2.12	0.00	0.00
03	Mar-14	13	12	0	0	1.67	1.70	0.00	0.00
03	Apr-14	25	23	1	1	3.21	3.25	3.21	20.96
03	May-14	19	19	0	0	2.44	2.69	0.00	0.00
03	Jun-14	9	9	0	0	1.15	1.27	0.00	0.00
03	Jul-14	25	24	1	0	3.21	3.39	3.21	0.00
03	Aug-14	21	21	0	0	2.69	2.97	0.00	0.00
03	Sep-14	23	23	0	0	2.95	3.25	0.00	0.00
03	Oct-14	17	17	0	0	2.18	2.40	0.00	0.00
03	Nov-14	15	15	0	0	1.92	2.12	0.00	0.00
03	Dec-14	25	25	0	0	3.21	3.53	0.00	0.00
03	Jan-15	19	18	1	0	2.44	2.54	3.21	0.00
03	Feb-15	18	18	0	0	2.31	2.54	0.00	0.00
03	Mar-15	16	15	0	0	2.05	2.12	0.00	0.00
03	Apr-15	16	16	0	0	2.05	2.26	0.00	0.00
03	May-15	9	9	0	0	1.15	1.27	0.00	0.00
03	Jun-15	26	26	0	0	3.33	3.67	0.00	0.00
03	Jul-15	13	13	0	0	1.67	1.84	0.00	0.00
03	Aug-15	17	16	0	1	2.18	2.26	0.00	20.96
03	Sep-15	21	21	0	0	2.69	2.97	0.00	0.00
03	Oct-15	10	10	0	0	1.28	1.41	0.00	0.00
03	Nov-15	11	10	0	1	1.41	1.41	0.00	20.96
03	Dec-15	11	11	0	0	1.41	1.55	0.00	0.00
03	Jan-16	20	18	2	0	2.57	2.54	6.42	0.00

03	Feb-16	7	7	0	0	0.90	0.99	0.00	0.00
03	Mar-16	18	18	0	0	2.31	2.54	0.00	0.00
03	Apr-16	20	20	0	0	2.57	2.83	0.00	0.00
04	Jan-14	32	30	2	0	2.67	4.18	1.93	0.00
04	Feb-14	22	18	1	2	1.84	2.51	0.96	0.73
04	Mar-14	21	17	0	4	1.75	2.37	0.00	1.47
04	Apr-14	15	14	0	1	1.25	1.95	0.00	0.37
04	May-14	22	19	0	3	1.84	2.65	0.00	1.10
04	Jun-14	27	23	0	4	2.26	3.21	0.00	1.47
04	Jul-14	26	23	0	3	2.17	3.21	0.00	1.10
04	Aug-14	21	20	0	1	1.75	2.79	0.00	0.37
04	Sep-14	29	20	0	9	2.42	2.79	0.00	3.30
04	Oct-14	17	13	0	4	1.42	1.81	0.00	1.47
04	Nov-14	15	13	1	1	1.25	1.81	0.96	0.37
04	Dec-14	17	14	2	1	1.42	1.95	1.93	0.37
04	Jan-15	25	24	0	1	2.09	3.35	0.00	0.37
04	Feb-15	15	11	1	3	1.25	1.53	0.96	1.10
04	Mar-15	16	16	0	0	1.34	2.23	0.00	0.00
04	Apr-15	17	12	1	4	1.42	1.67	0.96	1.47
04	May-15	11	11	0	0	0.92	1.53	0.00	0.00
04	Jun-15	19	14	1	4	1.59	1.95	0.96	1.47
04	Jul-15	22	19	1	2	1.84	2.65	0.96	0.73
04	Aug-15	17	13	0	4	1.42	1.81	0.00	1.47
04	Sep-15	18	15	0	3	1.50	2.09	0.00	1.10
04	Oct-15	28	27	0	1	2.34	3.76	0.00	0.37
04	Nov-15	21	21	0	0	1.75	2.93	0.00	0.00
04	Dec-15	13	10	0	2	1.09	1.39	0.00	0.73
04	Jan-16	21	20	0	1	1.75	2.79	0.00	0.37
04	Feb-16	25	21	1	3	2.09	2.93	0.96	1.10
04	Mar-16	18	17	0	1	1.50	2.37	0.00	0.37
04	Apr-16	17	12	0	5	1.42	1.67	0.00	1.83
05	Jan-14	10	10	0	0	1.38	1.47	0.00	0.00
05	Feb-14	18	17	0	1	2.48	2.49	0.00	7.38
05	Mar-14	23	19	1	2	3.17	2.79	7.53	14.76
05	Apr-14	16	14	1	0	2.20	2.05	7.53	0.00
05	May-14	19	18	0	1	2.62	2.64	0.00	7.38
05	Jun-14	23	23	0	0	3.17	3.37	0.00	0.00
05	Jul-14	20	20	0	0	2.76	2.93	0.00	0.00
05	Aug-14	19	18	0	1	2.62	2.64	0.00	7.38
05	Sep-14	25	22	1	2	3.44	3.23	7.53	14.76
05	Oct-14	22	19	2	1	3.03	2.79	15.05	7.38
05	Nov-14	22	22	0	0	3.03	3.23	0.00	0.00
05	Dec-14	16	15	0	1	2.20	2.20	0.00	7.38

05	Jan-15	14	14	0	0	1.93	2.05	0.00	0.00
05	Feb-15	14	13	0	1	1.93	1.91	0.00	7.38
05	Mar-15	16	16	0	0	2.20	2.35	0.00	0.00
05	Apr-15	11	11	0	0	1.52	1.61	0.00	0.00
05	May-15	18	15	1	2	2.48	2.20	7.53	14.76
05	Jun-15	15	15	0	0	2.07	2.20	0.00	0.00
05	Jul-15	9	9	0	0	1.24	1.32	0.00	0.00
05	Aug-15	15	14	1	0	2.07	2.05	7.53	0.00
05	Sep-15	10	9	0	1	1.38	1.32	0.00	7.38
05	Oct-15	12	12	0	0	1.65	1.76	0.00	0.00
05	Nov-15	8	8	0	0	1.10	1.17	0.00	0.00
05	Dec-15	10	10	0	0	1.38	1.47	0.00	0.00
05	Jan-16	15	14	0	0	2.07	2.05	0.00	0.00
05	Feb-16	11	11	0	0	1.52	1.61	0.00	0.00
05	Mar-16	4	4	0	0	0.55	0.59	0.00	0.00
05	Apr-16	13	13	0	0	1.79	1.91	0.00	0.00
06	Jan-14	26	25	0	1	2.85	2.83	0.00	49.47
06	Feb-14	14	14	0	0	1.54	1.59	0.00	0.00
06	Mar-14	30	30	0	0	3.29	3.40	0.00	0.00
06	Apr-14	27	27	0	0	2.96	3.06	0.00	0.00
06	May-14	24	24	0	0	2.63	2.72	0.00	0.00
06	Jun-14	39	39	0	0	4.28	4.42	0.00	0.00
06	Jul-14	23	22	0	0	2.52	2.49	0.00	0.00
06	Aug-14	20	20	0	0	2.20	2.27	0.00	0.00
06	Sep-14	19	19	0	0	2.09	2.15	0.00	0.00
06	Oct-14	36	34	2	0	3.95	3.85	35.84	0.00
06	Nov-14	7	7	0	0	0.77	0.79	0.00	0.00
06	Dec-14	22	21	1	0	2.41	2.38	17.92	0.00
06	Jan-15	22	22	0	0	2.41	2.49	0.00	0.00
06	Feb-15	22	22	0	0	2.41	2.49	0.00	0.00
06	Mar-15	14	14	0	0	1.54	1.59	0.00	0.00
06	Apr-15	15	15	0	0	1.65	1.70	0.00	0.00
06	May-15	25	25	0	0	2.74	2.83	0.00	0.00
06	Jun-15	13	13	0	0	1.43	1.47	0.00	0.00
06	Jul-15	16	16	0	0	1.76	1.81	0.00	0.00
06	Aug-15	17	17	0	0	1.87	1.93	0.00	0.00
06	Sep-15	23	23	0	0	2.52	2.61	0.00	0.00
06	Oct-15	19	19	0	0	2.09	2.15	0.00	0.00
06	Nov-15	16	16	0	0	1.76	1.81	0.00	0.00
06	Dec-15	8	8	0	0	0.88	0.91	0.00	0.00
06	Jan-16	10	10	0	0	1.10	1.13	0.00	0.00
06	Feb-16	13	13	0	0	1.43	1.47	0.00	0.00
06	Mar-16	19	19	0	0	2.09	2.15	0.00	0.00

06	Apr-16	21	21	0	0	2.30	2.38	0.00	0.00
07	Jan-14	22	22	0	0	3.35	3.55	0.00	0.00
07	Feb-14	29	28	0	0	4.42	4.52	0.00	0.00
07	Mar-14	16	16	0	0	2.44	2.58	0.00	0.00
07	Apr-14	24	24	0	0	3.66	3.87	0.00	0.00
07	May-14	25	25	0	0	3.81	4.04	0.00	0.00
07	Jun-14	47	47	0	0	7.16	7.59	0.00	0.00
07	Jul-14	29	29	0	0	4.42	4.68	0.00	0.00
07	Aug-14	25	25	0	0	3.81	4.04	0.00	0.00
07	Sep-14	27	26	1	0	4.12	4.20	14.69	0.00
07	Oct-14	21	21	0	0	3.20	3.39	0.00	0.00
07	Nov-14	17	17	0	0	2.59	2.74	0.00	0.00
07	Dec-14	21	21	0	0	3.20	3.39	0.00	0.00
07	Jan-15	14	14	0	0	2.13	2.26	0.00	0.00
07	Feb-15	12	12	0	0	1.83	1.94	0.00	0.00
07	Mar-15	12	12	0	0	1.83	1.94	0.00	0.00
07	Apr-15	14	14	0	0	2.13	2.26	0.00	0.00
07	May-15	19	19	0	0	2.90	3.07	0.00	0.00
07	Jun-15	17	17	0	0	2.59	2.74	0.00	0.00
07	Jul-15	27	26	1	0	4.12	4.20	14.69	0.00
07	Aug-15	25	25	0	0	3.81	4.04	0.00	0.00
07	Sep-15	27	27	0	0	4.12	4.36	0.00	0.00
07	Oct-15	16	16	0	0	2.44	2.58	0.00	0.00
07	Nov-15	10	9	0	1	1.52	1.45	0.00	22.18
07	Dec-15	15	15	0	0	2.29	2.42	0.00	0.00
07	Jan-16	17	14	0	3	2.59	2.26	0.00	66.54
07	Feb-16	5	5	0	0	0.76	0.81	0.00	0.00
07	Mar-16	10	10	0	0	1.52	1.61	0.00	0.00
07	Apr-16	31	30	0	0	4.73	4.84	0.00	0.00
08	Jan-14	28	19	2	7	1.11	3.69	0.40	1.07
08	Feb-14	18	15	0	3	0.71	2.91	0.00	0.46
08	Mar-14	14	10	4	0	0.56	1.94	0.80	0.00
08	Apr-14	15	10	0	5	0.60	1.94	0.00	0.76
08	May-14	20	12	2	6	0.79	2.33	0.40	0.91
08	Jun-14	20	16	0	3	0.79	3.11	0.00	0.46
08	Jul-14	24	17	2	4	0.95	3.30	0.40	0.61
08	Aug-14	23	16	2	5	0.91	3.11	0.40	0.76
08	Sep-14	16	14	0	2	0.64	2.72	0.00	0.30
08	Oct-14	15	12	0	3	0.60	2.33	0.00	0.46
08	Nov-14	12	8	1	3	0.48	1.55	0.20	0.46
08	Dec-14	13	7	5	1	0.52	1.36	1.01	0.15
08	Jan-15	12	12	0	0	0.48	2.33	0.00	0.00
08	Feb-15	11	5	2	4	0.44	0.97	0.40	0.61

08	Mar-15	12	8	0	4	0.48	1.55	0.00	0.61
08	Apr-15	13	9	3	1	0.52	1.75	0.60	0.15
08	May-15	21	10	3	7	0.83	1.94	0.60	1.07
08	Jun-15	18	8	1	9	0.71	1.55	0.20	1.37
08	Jul-15	21	10	5	6	0.83	1.94	1.01	0.91
08	Aug-15	13	7	3	3	0.52	1.36	0.60	0.46
08	Sep-15	27	16	1	10	1.07	3.11	0.20	1.52
08	Oct-15	6	3	1	2	0.24	0.58	0.20	0.30
08	Nov-15	15	13	0	2	0.60	2.52	0.00	0.30
08	Dec-15	15	8	1	6	0.60	1.55	0.20	0.91
08	Jan-16	14	4	4	6	0.56	0.78	0.80	0.91
08	Feb-16	14	11	1	2	0.56	2.14	0.20	0.30
08	Mar-16	19	14	1	4	0.75	2.72	0.20	0.61
08	Apr-16	7	0	1	6	0.28	0.00	0.20	0.91
09	Jan-14	11	5	0	6	0.67	2.77	0.00	1.09
09	Feb-14	21	11	5	4	1.27	6.09	2.07	0.73
09	Mar-14	14	10	0	4	0.85	5.53	0.00	0.73
09	Apr-14	19	13	1	5	1.15	7.19	0.41	0.91
09	May-14	17	8	1	8	1.03	4.43	0.41	1.45
09	Jun-14	18	12	1	4	1.09	6.64	0.41	0.73
09	Jul-14	13	6	2	5	0.79	3.32	0.83	0.91
09	Aug-14	24	15	4	4	1.46	8.30	1.65	0.73
09	Sep-14	15	11	1	2	0.91	6.09	0.41	0.36
09	Oct-14	29	13	3	13	1.76	7.19	1.24	2.36
09	Nov-14	18	14	0	4	1.09	7.75	0.00	0.73
09	Dec-14	12	9	1	2	0.73	4.98	0.41	0.36
09	Jan-15	14	7	2	5	0.85	3.87	0.83	0.91
09	Feb-15	11	6	1	4	0.67	3.32	0.41	0.73
09	Mar-15	9	6	0	2	0.55	3.32	0.00	0.36
09	Apr-15	17	13	0	4	1.03	7.19	0.00	0.73
09	May-15	26	12	3	9	1.58	6.64	1.24	1.63
09	Jun-15	18	7	3	8	1.09	3.87	1.24	1.45
09	Jul-15	27	10	6	11	1.64	5.53	2.48	2.00
09	Aug-15	14	7	2	5	0.85	3.87	0.83	0.91
09	Sep-15	19	12	3	4	1.15	6.64	1.24	0.73
09	Oct-15	10	7	0	2	0.61	3.87	0.00	0.36
09	Nov-15	15	7	1	7	0.91	3.87	0.41	1.27
09	Dec-15	8	4	1	3	0.49	2.21	0.41	0.54
09	Jan-16	15	6	1	8	0.91	3.32	0.41	1.45
09	Feb-16	5	1	1	3	0.30	0.55	0.41	0.54
09	Mar-16	15	9	0	6	0.91	4.98	0.00	1.09
09	Apr-16	10	4	3	3	0.61	2.21	1.24	0.54
10	Jan-14	21	18	0	3	1.94	5.13	0.00	0.63

10	Feb-14	13	11	0	2	1.20	3.14	0.00	0.42
10	Mar-14	23	18	0	5	2.13	5.13	0.00	1.05
10	Apr-14	16	13	0	3	1.48	3.71	0.00	0.63
10	May-14	19	13	0	6	1.76	3.71	0.00	1.26
10	Jun-14	34	19	0	15	3.14	5.42	0.00	3.14
10	Jul-14	20	15	1	4	1.85	4.28	2.81	0.84
10	Aug-14	25	15	1	9	2.31	4.28	2.81	1.89
10	Sep-14	24	15	1	7	2.22	4.28	2.81	1.47
10	Oct-14	27	19	1	7	2.50	5.42	2.81	1.47
10	Nov-14	8	6	0	2	0.74	1.71	0.00	0.42
10	Dec-14	15	13	0	2	1.39	3.71	0.00	0.42
10	Jan-15	8	7	0	1	0.74	2.00	0.00	0.21
10	Feb-15	7	2	0	5	0.65	0.57	0.00	1.05
10	Mar-15	18	11	2	5	1.66	3.14	5.62	1.05
10	Apr-15	11	7	1	3	1.02	2.00	2.81	0.63
10	May-15	21	12	0	9	1.94	3.42	0.00	1.89
10	Jun-15	21	18	2	1	1.94	5.13	5.62	0.21
10	Jul-15	16	12	0	4	1.48	3.42	0.00	0.84
10	Aug-15	17	13	0	4	1.57	3.71	0.00	0.84
10	Sep-15	27	15	1	11	2.50	4.28	2.81	2.31
10	Oct-15	22	15	0	7	2.03	4.28	0.00	1.47
10	Nov-15	19	15	0	3	1.76	4.28	0.00	0.63
10	Dec-15	26	18	0	8	2.40	5.13	0.00	1.68
10	Jan-16	12	7	0	4	1.11	2.00	0.00	0.84
10	Feb-16	13	7	0	6	1.20	2.00	0.00	1.26
10	Mar-16	18	12	0	6	1.66	3.42	0.00	1.26
10	Apr-16	17	13	0	4	1.57	3.71	0.00	0.84
11	Jan-14	8	7	0	1	1.11	1.16	0.00	3.49
11	Feb-14	14	14	0	0	1.94	2.31	0.00	0.00
11	Mar-14	23	21	0	2	3.19	3.47	0.00	6.99
11	Apr-14	23	22	1	0	3.19	3.63	4.90	0.00
11	May-14	13	11	1	1	1.81	1.82	4.90	3.49
11	Jun-14	16	14	1	0	2.22	2.31	4.90	0.00
11	Jul-14	16	15	0	1	2.22	2.48	0.00	3.49
11	Aug-14	23	20	0	3	3.19	3.30	0.00	10.48
11	Sep-14	22	21	1	0	3.05	3.47	4.90	0.00
11	Oct-14	24	22	0	1	3.33	3.63	0.00	3.49
11	Nov-14	20	19	0	0	2.78	3.14	0.00	0.00
11	Dec-14	18	17	0	1	2.50	2.81	0.00	3.49
11	Jan-15	14	14	0	0	1.94	2.31	0.00	0.00
11	Feb-15	16	14	1	0	2.22	2.31	4.90	0.00
11	Mar-15	14	13	0	1	1.94	2.15	0.00	3.49
11	Apr-15	18	16	0	1	2.50	2.64	0.00	3.49

11	May-15	34	32	0	1	4.72	5.29	0.00	3.49
11	Jun-15	19	18	1	0	2.64	2.97	4.90	0.00
11	Jul-15	23	21	0	2	3.19	3.47	0.00	6.99
11	Aug-15	20	18	0	2	2.78	2.97	0.00	6.99
11	Sep-15	22	18	1	3	3.05	2.97	4.90	10.48
11	Oct-15	19	17	0	2	2.64	2.81	0.00	6.99
11	Nov-15	12	12	0	0	1.67	1.98	0.00	0.00
11	Dec-15	22	19	0	3	3.05	3.14	0.00	10.48
11	Jan-16	20	20	0	0	2.78	3.30	0.00	0.00
11	Feb-16	13	13	0	0	1.81	2.15	0.00	0.00
11	Mar-16	13	11	0	1	1.81	1.82	0.00	3.49
11	Apr-16	18	18	0	0	2.50	2.97	0.00	0.00
12	Jan-14	7	4	3	0	0.54	1.71	0.55	0.00
12	Feb-14	5	3	0	2	0.38	1.28	0.00	0.87
12	Mar-14	22	18	2	2	1.69	7.70	0.37	0.87
12	Apr-14	12	9	0	1	0.92	3.85	0.00	0.43
12	May-14	11	7	1	3	0.84	2.99	0.18	1.30
12	Jun-14	10	8	1	1	0.77	3.42	0.18	0.43
12	Jul-14	15	13	1	1	1.15	5.56	0.18	0.43
12	Aug-14	11	9	1	1	0.84	3.85	0.18	0.43
12	Sep-14	10	6	1	3	0.77	2.57	0.18	1.30
12	Oct-14	10	9	1	0	0.77	3.85	0.18	0.00
12	Nov-14	17	11	0	5	1.31	4.71	0.00	2.17
12	Dec-14	13	9	2	2	1.00	3.85	0.37	0.87
12	Jan-15	10	9	0	1	0.77	3.85	0.00	0.43
12	Feb-15	6	3	2	1	0.46	1.28	0.37	0.43
12	Mar-15	13	7	0	5	1.00	2.99	0.00	2.17
12	Apr-15	6	3	0	3	0.46	1.28	0.00	1.30
12	May-15	11	7	0	3	0.84	2.99	0.00	1.30
12	Jun-15	21	17	1	3	1.61	7.27	0.18	1.30
12	Jul-15	11	8	0	3	0.84	3.42	0.00	1.30
12	Aug-15	17	8	5	4	1.31	3.42	0.92	1.73
12	Sep-15	10	5	2	3	0.77	2.14	0.37	1.30
12	Oct-15	11	10	1	0	0.84	4.28	0.18	0.00
12	Nov-15	6	5	0	1	0.46	2.14	0.00	0.43
12	Dec-15	15	12	1	2	1.15	5.13	0.18	0.87
12	Jan-16	19	18	0	1	1.46	7.70	0.00	0.43
12	Feb-16	15	9	2	4	1.15	3.85	0.37	1.73
12	Mar-16	14	9	0	5	1.08	3.85	0.00	2.17
12	Apr-16	8	6	0	2	0.61	2.57	0.00	0.87
14	Jan-14	4	0	0	4	0.33	0.00	0.00	1.15
14	Feb-14	5	2	0	2	0.42	2.30	0.00	0.57
14	Mar-14	9	3	0	6	0.75	3.44	0.00	1.72

14	Apr-14	10	4	0	5	0.84	4.59	0.00	1.43
14	May-14	14	6	2	5	1.17	6.89	0.37	1.43
14	Jun-14	11	0	2	9	0.92	0.00	0.37	2.58
14	Jul-14	14	2	4	7	1.17	2.30	0.73	2.01
14	Aug-14	8	4	0	4	0.67	4.59	0.00	1.15
14	Sep-14	9	4	1	4	0.75	4.59	0.18	1.15
14	Oct-14	13	9	1	2	1.09	10.33	0.18	0.57
14	Nov-14	4	1	0	2	0.33	1.15	0.00	0.57
14	Dec-14	5	2	1	2	0.42	2.30	0.18	0.57
14	Jan-15	3	1	0	2	0.25	1.15	0.00	0.57
14	Feb-15	3	0	0	3	0.25	0.00	0.00	0.86
14	Mar-15	4	0	0	4	0.33	0.00	0.00	1.15
14	Apr-15	18	8	2	8	1.51	9.18	0.37	2.30
14	May-15	8	2	3	3	0.67	2.30	0.55	0.86
14	Jun-15	7	0	0	7	0.59	0.00	0.00	2.01
14	Jul-15	10	5	1	4	0.84	5.74	0.18	1.15
14	Aug-15	11	3	5	1	0.92	3.44	0.92	0.29
14	Sep-15	5	2	1	2	0.42	2.30	0.18	0.57
14	Oct-15	6	4	1	1	0.50	4.59	0.18	0.29
14	Nov-15	4	1	1	1	0.33	1.15	0.18	0.29
14	Dec-15	1	1	0	0	0.08	1.15	0.00	0.00
14	Jan-16	3	0	0	3	0.25	0.00	0.00	0.86
14	Feb-16	6	4	0	2	0.50	4.59	0.00	0.57
14	Mar-16	9	4	1	4	0.75	4.59	0.18	1.15
14	Apr-16	3	2	1	0	0.25	2.30	0.18	0.00
15	Jan-14	16	16	0	0	2.70	2.91	0.00	0.00
15	Feb-14	12	12	0	0	2.03	2.18	0.00	0.00
15	Mar-14	19	17	0	1	3.21	3.09	0.00	14.28
15	Apr-14	19	19	0	0	3.21	3.46	0.00	0.00
15	May-14	33	33	0	0	5.57	6.01	0.00	0.00
15	Jun-14	12	12	0	0	2.03	2.18	0.00	0.00
15	Jul-14	17	13	1	3	2.87	2.37	8.30	42.83
15	Aug-14	17	17	0	0	2.87	3.09	0.00	0.00
15	Sep-14	15	13	0	1	2.53	2.37	0.00	14.28
15	Oct-14	21	20	0	1	3.55	3.64	0.00	14.28
15	Nov-14	11	11	0	0	1.86	2.00	0.00	0.00
15	Dec-14	20	18	1	1	3.38	3.28	8.30	14.28
15	Jan-15	9	9	0	0	1.52	1.64	0.00	0.00
15	Feb-15	12	12	0	0	2.03	2.18	0.00	0.00
15	Mar-15	17	17	0	0	2.87	3.09	0.00	0.00
15	Apr-15	17	17	0	0	2.87	3.09	0.00	0.00
15	May-15	10	10	0	0	1.69	1.82	0.00	0.00
15	Jun-15	10	9	0	1	1.69	1.64	0.00	14.28

15	Jul-15	13	12	0	1	2.20	2.18	0.00	14.28
15	Aug-15	19	19	0	0	3.21	3.46	0.00	0.00
15	Sep-15	7	5	1	1	1.18	0.91	8.30	14.28
15	Oct-15	10	10	0	0	1.69	1.82	0.00	0.00
15	Nov-15	9	7	1	1	1.52	1.27	8.30	14.28
15	Dec-15	15	15	0	0	2.53	2.73	0.00	0.00
15	Jan-16	9	9	0	0	1.52	1.64	0.00	0.00
15	Feb-16	10	10	0	0	1.69	1.82	0.00	0.00
15	Mar-16	20	19	0	1	3.38	3.46	0.00	14.28
15	Apr-16	9	9	0	0	1.52	1.64	0.00	0.00
16	Jan-14	6	3	1	1	0.29	12.44	0.07	0.36
16	Feb-14	8	2	4	2	0.39	8.29	0.29	0.72
16	Mar-14	2	0	0	2	0.10	0.00	0.00	0.72
16	Apr-14	0	0	0	0	0.00	0.00	0.00	0.00
16	May-14	9	1	5	2	0.44	4.15	0.36	0.72
16	Jun-14	7	0	3	4	0.34	0.00	0.22	1.44
16	Jul-14	5	0	0	5	0.24	0.00	0.00	1.80
16	Aug-14	5	1	4	0	0.24	4.15	0.29	0.00
16	Sep-14	3	0	1	1	0.15	0.00	0.07	0.36
16	Oct-14	16	0	10	5	0.78	0.00	0.73	1.80
16	Nov-14	1	0	1	0	0.05	0.00	0.07	0.00
16	Dec-14	7	2	2	3	0.34	8.29	0.15	1.08
16	Jan-15	2	0	1	1	0.10	0.00	0.07	0.36
16	Feb-15	2	0	2	0	0.10	0.00	0.15	0.00
16	Mar-15	2	0	1	1	0.10	0.00	0.07	0.36
16	Apr-15	8	1	2	4	0.39	4.15	0.15	1.44
16	May-15	5	1	3	1	0.24	4.15	0.22	0.36
16	Jun-15	3	1	0	1	0.15	4.15	0.00	0.36
16	Jul-15	7	2	0	5	0.34	8.29	0.00	1.80
16	Aug-15	5	1	2	1	0.24	4.15	0.15	0.36
16	Sep-15	9	0	3	2	0.44	0.00	0.22	0.72
16	Oct-15	7	3	2	2	0.34	12.44	0.15	0.72
16	Nov-15	11	3	4	2	0.54	12.44	0.29	0.72
16	Dec-15	0	0	0	0	0.00	0.00	0.00	0.00
16	Jan-16	5	1	2	2	0.24	4.15	0.15	0.72
16	Feb-16	4	2	2	0	0.19	8.29	0.15	0.00
16	Mar-16	7	2	0	4	0.34	8.29	0.00	1.44
16	Apr-16	4	0	0	3	0.19	0.00	0.00	1.08
17	Jan-14	6	0	3	3	0.40	0.00	0.53	0.77
17	Feb-14	12	1	3	7	0.81	2.19	0.53	1.80
17	Mar-14	6	1	2	3	0.40	2.19	0.35	0.77
17	Apr-14	6	4	0	1	0.40	8.75	0.00	0.26
17	May-14	5	3	0	2	0.34	6.56	0.00	0.52

17	Jun-14	7	3	0	3	0.47	6.56	0.00	0.77
17	Jul-14	2	1	0	1	0.13	2.19	0.00	0.26
17	Aug-14	5	1	1	3	0.34	2.19	0.18	0.77
17	Sep-14	2	0	0	2	0.13	0.00	0.00	0.52
17	Oct-14	8	3	0	4	0.54	6.56	0.00	1.03
17	Nov-14	4	0	1	1	0.27	0.00	0.18	0.26
17	Dec-14	4	2	1	1	0.27	4.38	0.18	0.26
17	Jan-15	5	2	1	2	0.34	4.38	0.18	0.52
17	Feb-15	3	2	0	0	0.20	4.38	0.00	0.00
17	Mar-15	4	0	1	3	0.27	0.00	0.18	0.77
17	Apr-15	7	1	2	3	0.47	2.19	0.35	0.77
17	May-15	5	0	1	4	0.34	0.00	0.18	1.03
17	Jun-15	14	6	4	3	0.94	13.13	0.70	0.77
17	Jul-15	4	2	0	1	0.27	4.38	0.00	0.26
17	Aug-15	3	0	1	2	0.20	0.00	0.18	0.52
17	Sep-15	5	1	1	2	0.34	2.19	0.18	0.52
17	Oct-15	4	1	1	1	0.27	2.19	0.18	0.26
17	Nov-15	1	0	0	1	0.07	0.00	0.00	0.26
17	Dec-15	3	1	0	1	0.20	2.19	0.00	0.26
17	Jan-16	7	0	2	4	0.47	0.00	0.35	1.03
17	Feb-16	7	4	0	3	0.47	8.75	0.00	0.77
17	Mar-16	12	1	3	6	0.81	2.19	0.53	1.55
17	Apr-16	1	0	1	0	0.07	0.00	0.18	0.00
18	Jan-14	4	2	1	0	0.33	2.07	0.11	0.00
18	Feb-14	6	5	1	0	0.50	5.17	0.11	0.00
18	Mar-14	3	2	0	1	0.25	2.07	0.00	2.05
18	Apr-14	7	5	2	0	0.58	5.17	0.22	0.00
18	May-14	3	3	0	0	0.25	3.10	0.00	0.00
18	Jun-14	9	9	0	0	0.74	9.31	0.00	0.00
18	Jul-14	7	6	0	1	0.58	6.21	0.00	2.05
18	Aug-14	7	3	0	4	0.58	3.10	0.00	8.19
18	Sep-14	10	10	0	0	0.83	10.35	0.00	0.00
18	Oct-14	12	9	1	2	0.99	9.31	0.11	4.09
18	Nov-14	10	8	1	1	0.83	8.28	0.11	2.05
18	Dec-14	4	4	0	0	0.33	4.14	0.00	0.00
18	Jan-15	1	1	0	0	0.08	1.03	0.00	0.00
18	Feb-15	4	3	1	0	0.33	3.10	0.11	0.00
18	Mar-15	5	5	0	0	0.41	5.17	0.00	0.00
18	Apr-15	2	2	0	0	0.17	2.07	0.00	0.00
18	May-15	6	5	0	1	0.50	5.17	0.00	2.05
18	Jun-15	7	5	1	1	0.58	5.17	0.11	2.05
18	Jul-15	6	5	0	0	0.50	5.17	0.00	0.00
18	Aug-15	14	14	0	0	1.16	14.49	0.00	0.00

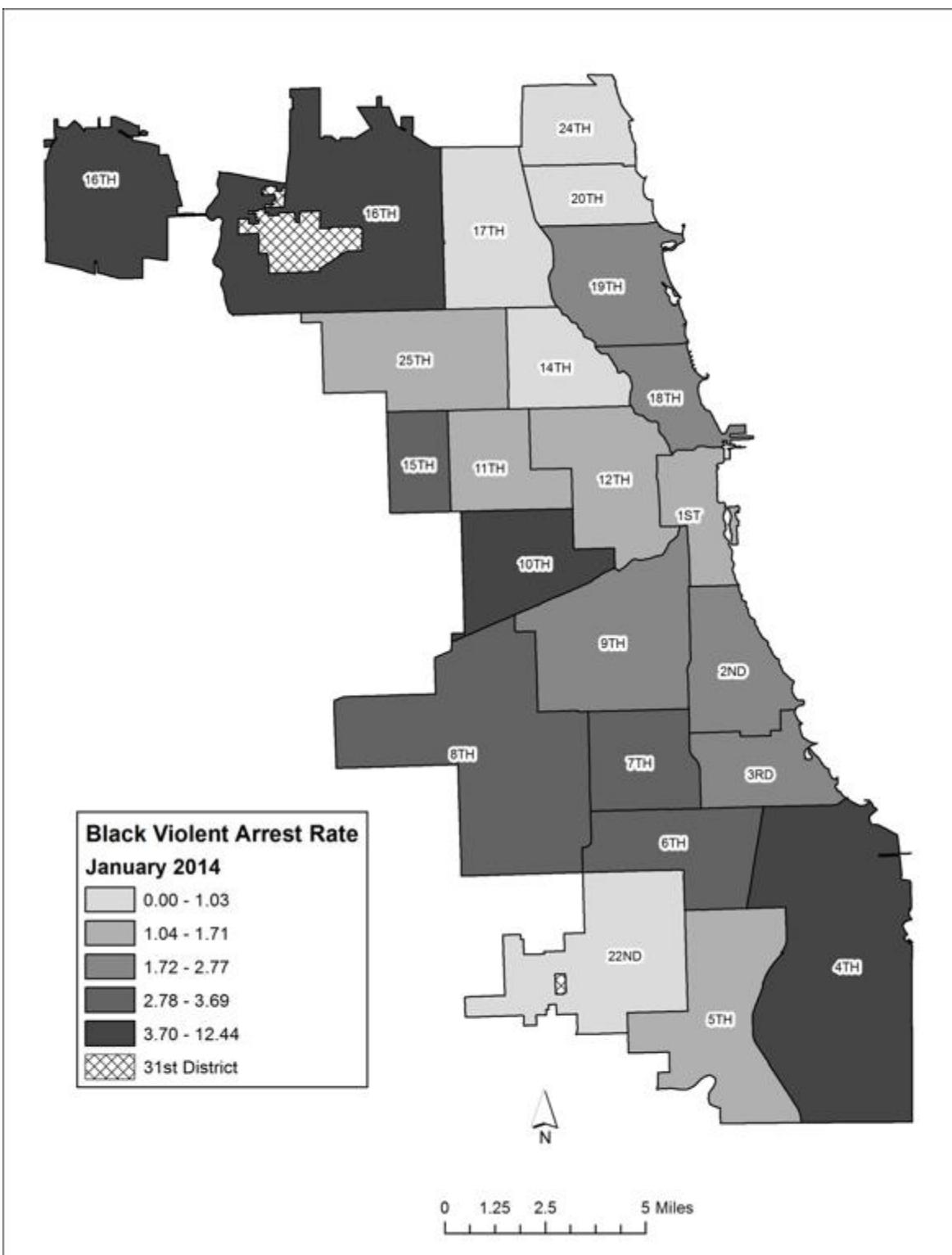
18	Sep-15	13	11	0	1	1.08	11.38	0.00	2.05
18	Oct-15	3	2	0	1	0.25	2.07	0.00	2.05
18	Nov-15	4	4	0	0	0.33	4.14	0.00	0.00
18	Dec-15	2	1	1	0	0.17	1.03	0.11	0.00
18	Jan-16	3	3	0	0	0.25	3.10	0.00	0.00
18	Feb-16	9	9	0	0	0.74	9.31	0.00	0.00
18	Mar-16	4	3	1	0	0.33	3.10	0.11	0.00
18	Apr-16	6	5	1	0	0.50	5.17	0.11	0.00
19	Jan-14	3	3	0	0	0.14	2.42	0.00	0.00
19	Feb-14	13	10	2	1	0.63	8.07	0.13	0.63
19	Mar-14	5	5	0	0	0.24	4.03	0.00	0.00
19	Apr-14	3	1	1	0	0.14	0.81	0.06	0.00
19	May-14	14	9	1	3	0.68	7.26	0.06	1.88
19	Jun-14	13	8	1	4	0.63	6.45	0.06	2.51
19	Jul-14	12	9	1	2	0.58	7.26	0.06	1.26
19	Aug-14	15	7	3	4	0.72	5.65	0.19	2.51
19	Sep-14	5	3	1	1	0.24	2.42	0.06	0.63
19	Oct-14	11	8	1	0	0.53	6.45	0.06	0.00
19	Nov-14	8	6	2	0	0.39	4.84	0.13	0.00
19	Dec-14	6	3	2	1	0.29	2.42	0.13	0.63
19	Jan-15	3	2	0	1	0.14	1.61	0.00	0.63
19	Feb-15	8	8	0	0	0.39	6.45	0.00	0.00
19	Mar-15	8	2	1	4	0.39	1.61	0.06	2.51
19	Apr-15	5	1	0	1	0.24	0.81	0.00	0.63
19	May-15	6	4	1	1	0.29	3.23	0.06	0.63
19	Jun-15	9	7	1	1	0.43	5.65	0.06	0.63
19	Jul-15	5	2	1	2	0.24	1.61	0.06	1.26
19	Aug-15	10	8	0	2	0.48	6.45	0.00	1.26
19	Sep-15	5	4	0	1	0.24	3.23	0.00	0.63
19	Oct-15	7	4	2	1	0.34	3.23	0.13	0.63
19	Nov-15	6	2	1	2	0.29	1.61	0.06	1.26
19	Dec-15	2	2	0	0	0.10	1.61	0.00	0.00
19	Jan-16	9	8	1	0	0.43	6.45	0.06	0.00
19	Feb-16	2	1	0	1	0.10	0.81	0.00	0.63
19	Mar-16	9	4	1	3	0.43	3.23	0.06	1.88
19	Apr-16	6	3	0	3	0.29	2.42	0.00	1.88
20	Jan-14	1	1	0	0	0.11	1.03	0.00	0.00
20	Feb-14	2	2	0	0	0.23	2.06	0.00	0.00
20	Mar-14	3	2	0	1	0.34	2.06	0.00	1.06
20	Apr-14	3	0	2	1	0.34	0.00	0.41	1.06
20	May-14	3	2	0	1	0.34	2.06	0.00	1.06
20	Jun-14	2	2	0	0	0.23	2.06	0.00	0.00
20	Jul-14	2	1	0	1	0.23	1.03	0.00	1.06

20	Aug-14	2	2	0	0	0.23	2.06	0.00	0.00
20	Sep-14	2	1	1	0	0.23	1.03	0.21	0.00
20	Oct-14	1	0	0	1	0.11	0.00	0.00	1.06
20	Nov-14	2	1	0	1	0.23	1.03	0.00	1.06
20	Dec-14	3	3	0	0	0.34	3.09	0.00	0.00
20	Jan-15	2	0	0	2	0.23	0.00	0.00	2.12
20	Feb-15	2	1	1	0	0.23	1.03	0.21	0.00
20	Mar-15	3	1	2	0	0.34	1.03	0.41	0.00
20	Apr-15	0	0	0	0	0.00	0.00	0.00	0.00
20	May-15	6	6	0	0	0.69	6.17	0.00	0.00
20	Jun-15	2	2	0	0	0.23	2.06	0.00	0.00
20	Jul-15	5	5	0	0	0.57	5.14	0.00	0.00
20	Aug-15	5	2	0	3	0.57	2.06	0.00	3.18
20	Sep-15	4	3	0	1	0.46	3.09	0.00	1.06
20	Oct-15	1	1	0	0	0.11	1.03	0.00	0.00
20	Nov-15	1	1	0	0	0.11	1.03	0.00	0.00
20	Dec-15	2	1	1	0	0.23	1.03	0.21	0.00
20	Jan-16	7	4	0	3	0.80	4.11	0.00	3.18
20	Feb-16	3	2	0	1	0.34	2.06	0.00	1.06
20	Mar-16	0	0	0	0	0.00	0.00	0.00	0.00
20	Apr-16	2	1	1	0	0.23	1.03	0.21	0.00
22	Jan-14	6	6	0	0	0.58	0.97	0.00	0.00
22	Feb-14	5	5	0	0	0.49	0.81	0.00	0.00
22	Mar-14	13	13	0	0	1.27	2.09	0.00	0.00
22	Apr-14	11	11	0	0	1.07	1.77	0.00	0.00
22	May-14	16	15	1	0	1.56	2.42	0.29	0.00
22	Jun-14	15	14	1	0	1.46	2.26	0.29	0.00
22	Jul-14	11	11	0	0	1.07	1.77	0.00	0.00
22	Aug-14	9	8	1	0	0.88	1.29	0.29	0.00
22	Sep-14	16	16	0	0	1.56	2.58	0.00	0.00
22	Oct-14	12	11	1	0	1.17	1.77	0.29	0.00
22	Nov-14	5	4	1	0	0.49	0.64	0.29	0.00
22	Dec-14	2	2	0	0	0.19	0.32	0.00	0.00
22	Jan-15	9	8	0	0	0.88	1.29	0.00	0.00
22	Feb-15	9	9	0	0	0.88	1.45	0.00	0.00
22	Mar-15	13	13	0	0	1.27	2.09	0.00	0.00
22	Apr-15	6	6	0	0	0.58	0.97	0.00	0.00
22	May-15	12	9	2	1	1.17	1.45	0.57	4.80
22	Jun-15	8	8	0	0	0.78	1.29	0.00	0.00
22	Jul-15	11	11	0	0	1.07	1.77	0.00	0.00
22	Aug-15	7	7	0	0	0.68	1.13	0.00	0.00
22	Sep-15	12	12	0	0	1.17	1.93	0.00	0.00
22	Oct-15	6	6	0	0	0.58	0.97	0.00	0.00

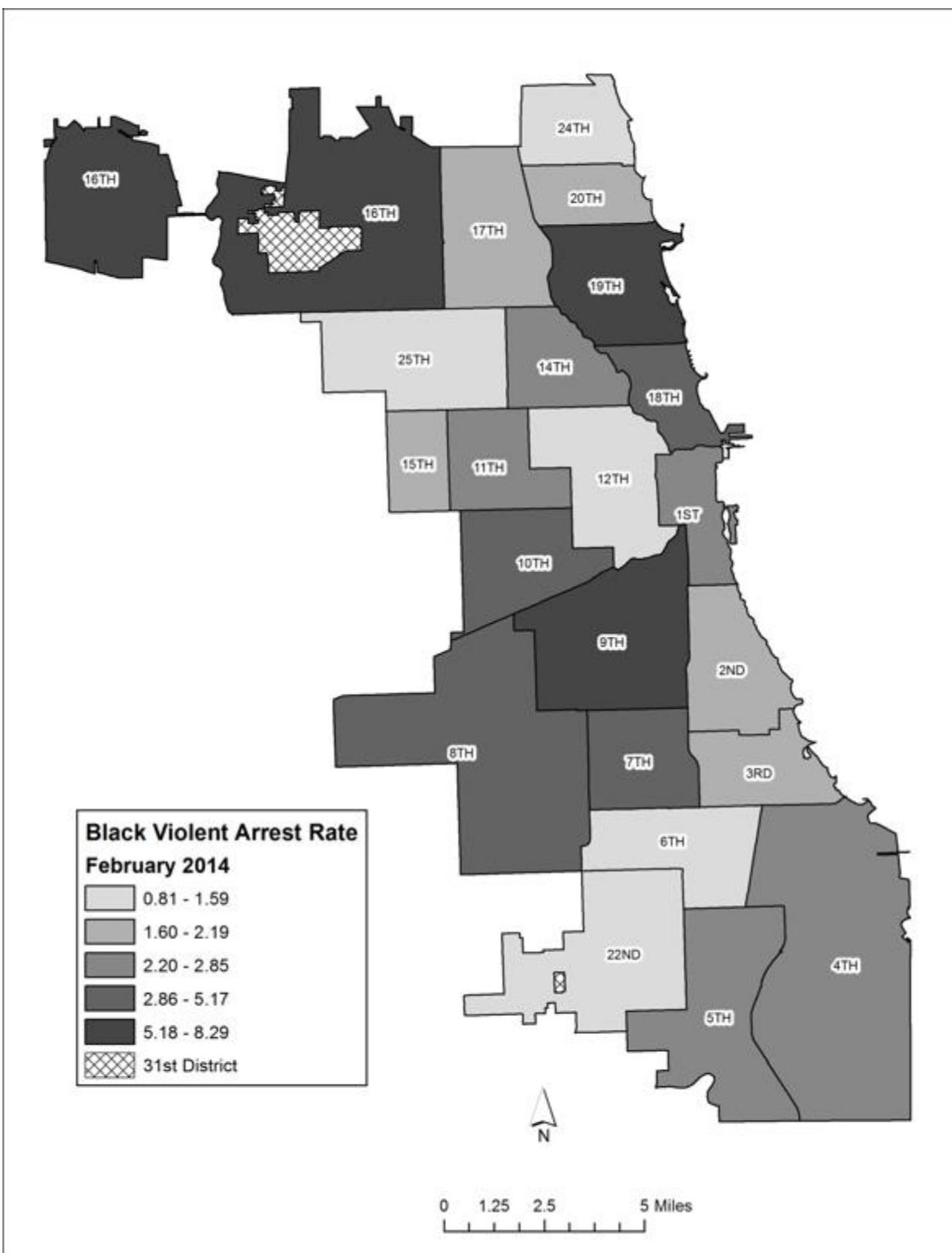
22	Nov-15	8	8	0	0	0.78	1.29	0.00	0.00
22	Dec-15	4	4	0	0	0.39	0.64	0.00	0.00
22	Jan-16	3	3	0	0	0.29	0.48	0.00	0.00
22	Feb-16	5	3	2	0	0.49	0.48	0.57	0.00
22	Mar-16	12	11	0	1	1.17	1.77	0.00	4.80
22	Apr-16	7	6	1	0	0.68	0.97	0.29	0.00
24	Jan-14	3	0	0	2	0.21	0.00	0.00	1.00
24	Feb-14	5	3	1	0	0.35	1.22	0.16	0.00
24	Mar-14	10	2	2	6	0.71	0.81	0.32	2.99
24	Apr-14	7	4	0	2	0.50	1.63	0.00	1.00
24	May-14	8	7	0	0	0.57	2.85	0.00	0.00
24	Jun-14	13	11	1	1	0.92	4.48	0.16	0.50
24	Jul-14	8	5	0	1	0.57	2.03	0.00	0.50
24	Aug-14	3	3	0	0	0.21	1.22	0.00	0.00
24	Sep-14	11	8	2	0	0.78	3.26	0.32	0.00
24	Oct-14	9	9	0	0	0.64	3.66	0.00	0.00
24	Nov-14	5	4	1	0	0.35	1.63	0.16	0.00
24	Dec-14	11	5	2	4	0.78	2.03	0.32	1.99
24	Jan-15	7	2	2	1	0.50	0.81	0.32	0.50
24	Mar-15	5	5	0	0	0.35	2.03	0.00	0.00
24	Apr-15	4	3	0	0	0.28	1.22	0.00	0.00
24	May-15	11	8	2	1	0.78	3.26	0.32	0.50
24	Jun-15	10	5	1	2	0.71	2.03	0.16	1.00
24	Jul-15	16	14	0	2	1.13	5.70	0.00	1.00
24	Aug-15	8	5	0	3	0.57	2.03	0.00	1.49
24	Sep-15	8	6	0	1	0.57	2.44	0.00	0.50
24	Oct-15	4	2	1	1	0.28	0.81	0.16	0.50
24	Nov-15	6	4	0	1	0.42	1.63	0.00	0.50
24	Dec-15	6	5	1	0	0.42	2.03	0.16	0.00
24	Jan-16	1	1	0	0	0.07	0.41	0.00	0.00
24	Feb-16	7	5	0	2	0.50	2.03	0.00	1.00
24	Mar-16	7	3	0	1	0.50	1.22	0.00	0.50
24	Apr-16	9	4	1	3	0.64	1.63	0.16	1.49
25	Jan-14	14	5	0	9	0.70	1.53	0.00	1.56
25	Feb-14	5	3	0	1	0.25	0.92	0.00	0.17
25	Mar-14	15	7	2	6	0.75	2.14	0.71	1.04
25	Apr-14	9	1	0	7	0.45	0.31	0.00	1.21
25	May-14	12	5	0	7	0.60	1.53	0.00	1.21
25	Jun-14	12	5	0	7	0.60	1.53	0.00	1.21
25	Jul-14	21	8	3	9	1.05	2.44	1.06	1.56
25	Aug-14	22	6	2	14	1.10	1.83	0.71	2.42
25	Sep-14	17	6	2	8	0.85	1.83	0.71	1.38
25	Oct-14	10	4	1	4	0.50	1.22	0.35	0.69

25	Nov-14	14	5	1	8	0.70	1.53	0.35	1.38
25	Dec-14	13	3	1	8	0.65	0.92	0.35	1.38
25	Jan-15	14	3	0	11	0.70	0.92	0.00	1.90
25	Feb-15	8	3	0	5	0.40	0.92	0.00	0.86
25	Mar-15	17	7	0	10	0.85	2.14	0.00	1.73
25	Apr-15	15	3	1	11	0.75	0.92	0.35	1.90
25	May-15	22	2	2	17	1.10	0.61	0.71	2.94
25	Jun-15	9	4	0	5	0.45	1.22	0.00	0.86
25	Jul-15	15	8	1	6	0.75	2.44	0.35	1.04
25	Aug-15	16	9	1	6	0.80	2.75	0.35	1.04
25	Sep-15	14	7	0	6	0.70	2.14	0.00	1.04
25	Oct-15	11	6	0	5	0.55	1.83	0.00	0.86
25	Nov-15	8	5	1	2	0.40	1.53	0.35	0.35
25	Dec-15	3	1	1	1	0.15	0.31	0.35	0.17
25	Jan-16	7	2	0	5	0.35	0.61	0.00	0.86
25	Feb-16	7	4	1	2	0.35	1.22	0.35	0.35
25	Mar-16	8	1	0	7	0.40	0.31	0.00	1.21
25	Apr-16	9	1	2	6	0.45	0.31	0.71	1.04

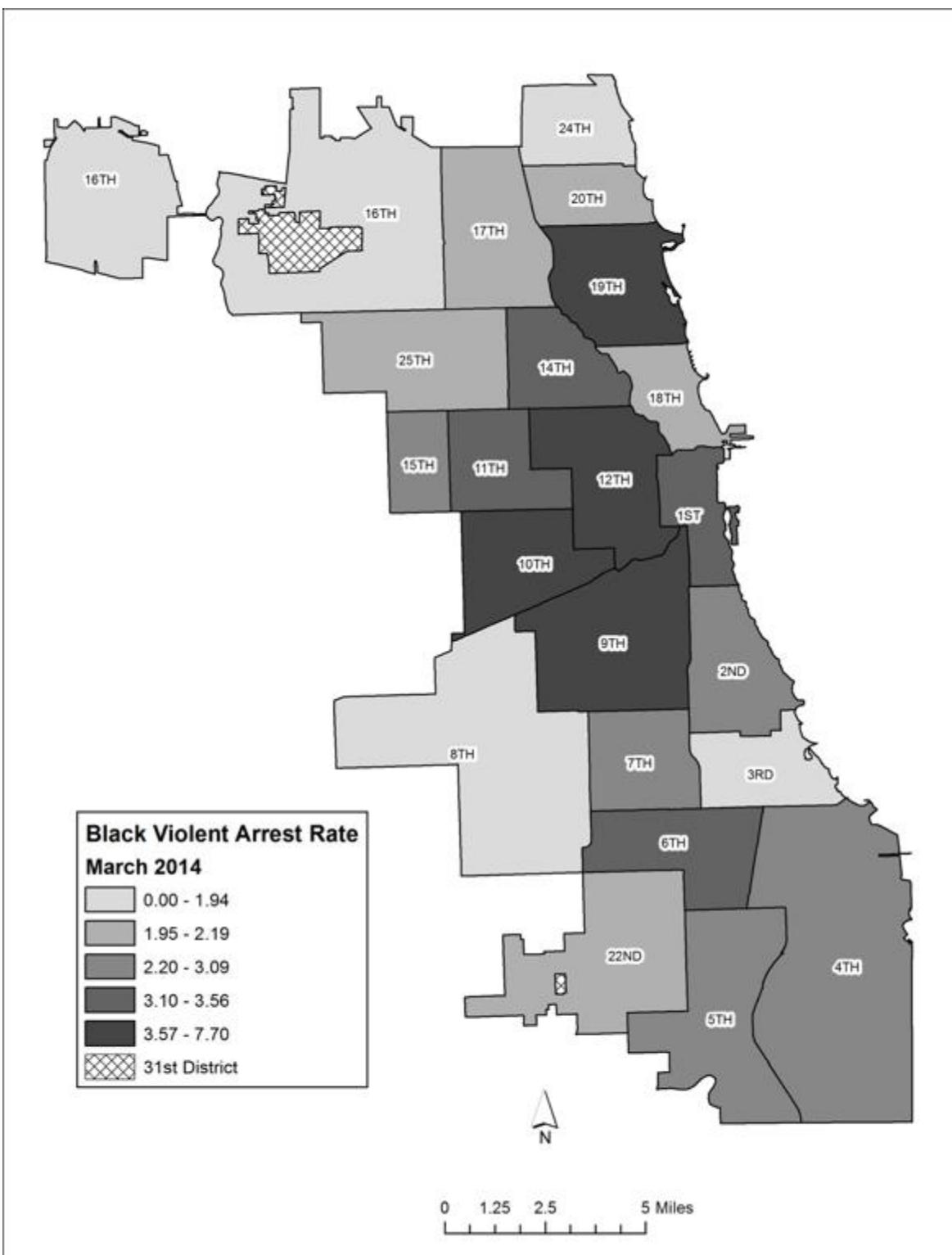
APPENDIX C: Black Violent Arrest Rate, January 2014



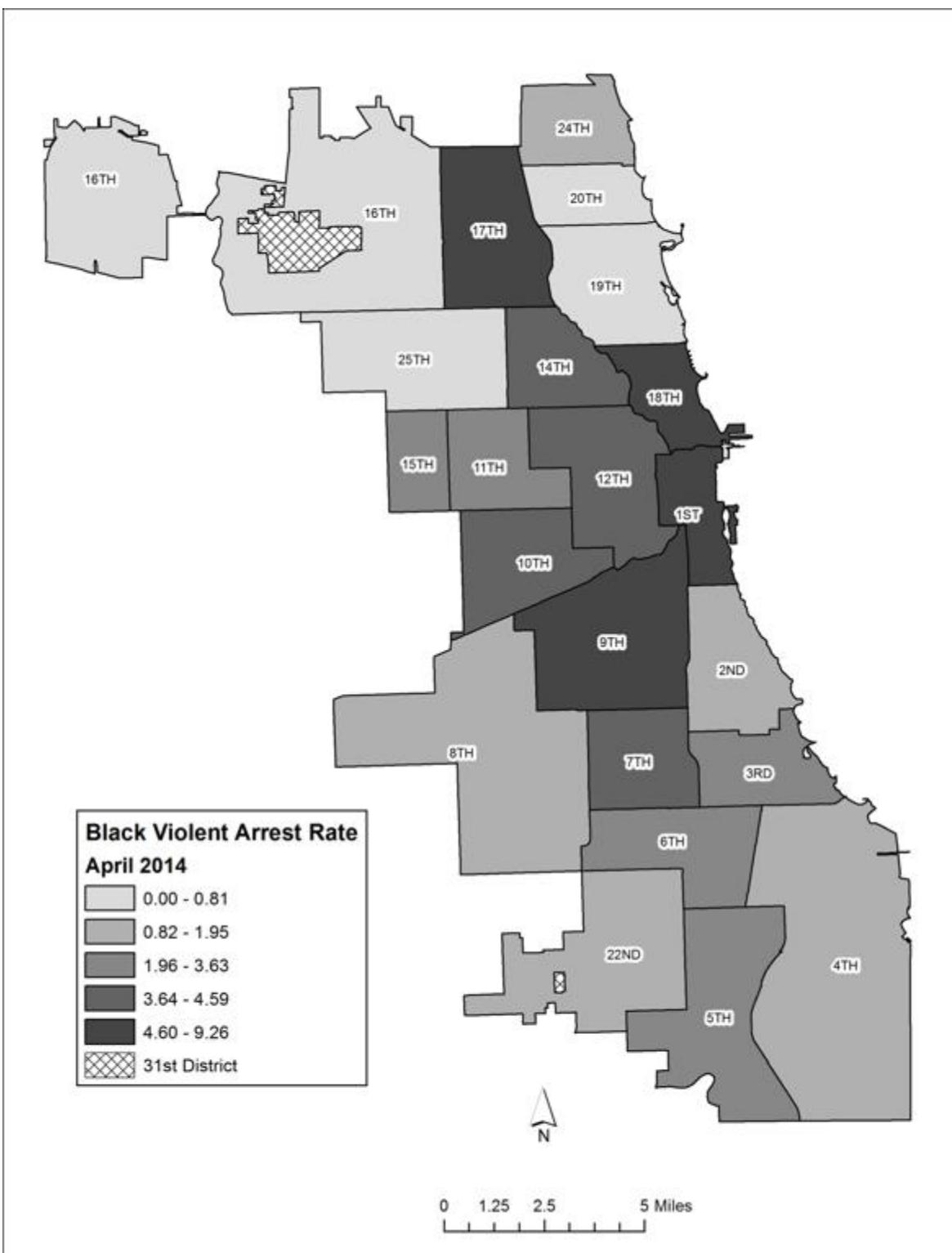
APPENDIX D: Black Violent Arrest Rate, February 2014



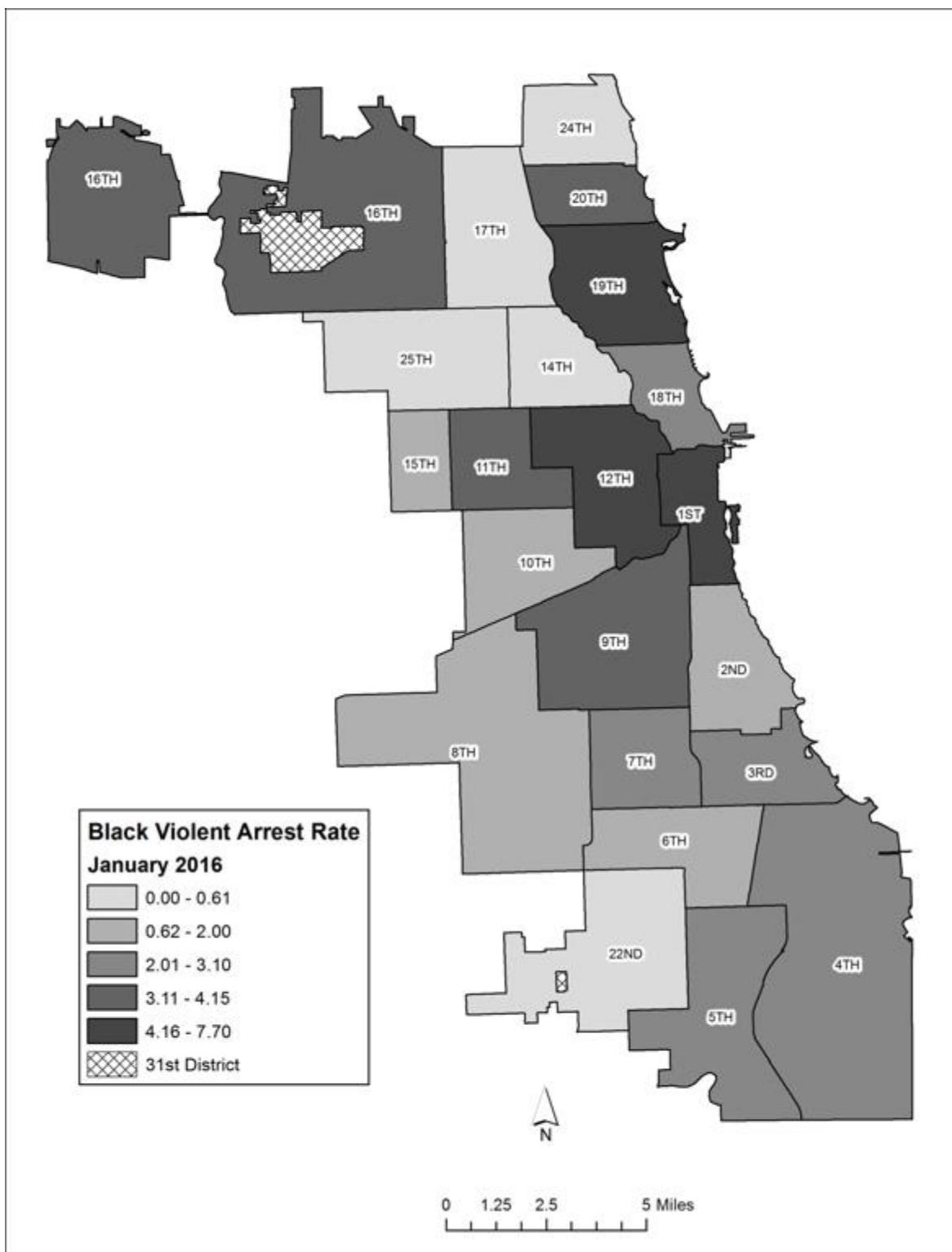
APPENDIX E: Black Violent Arrest Rate, March 2014



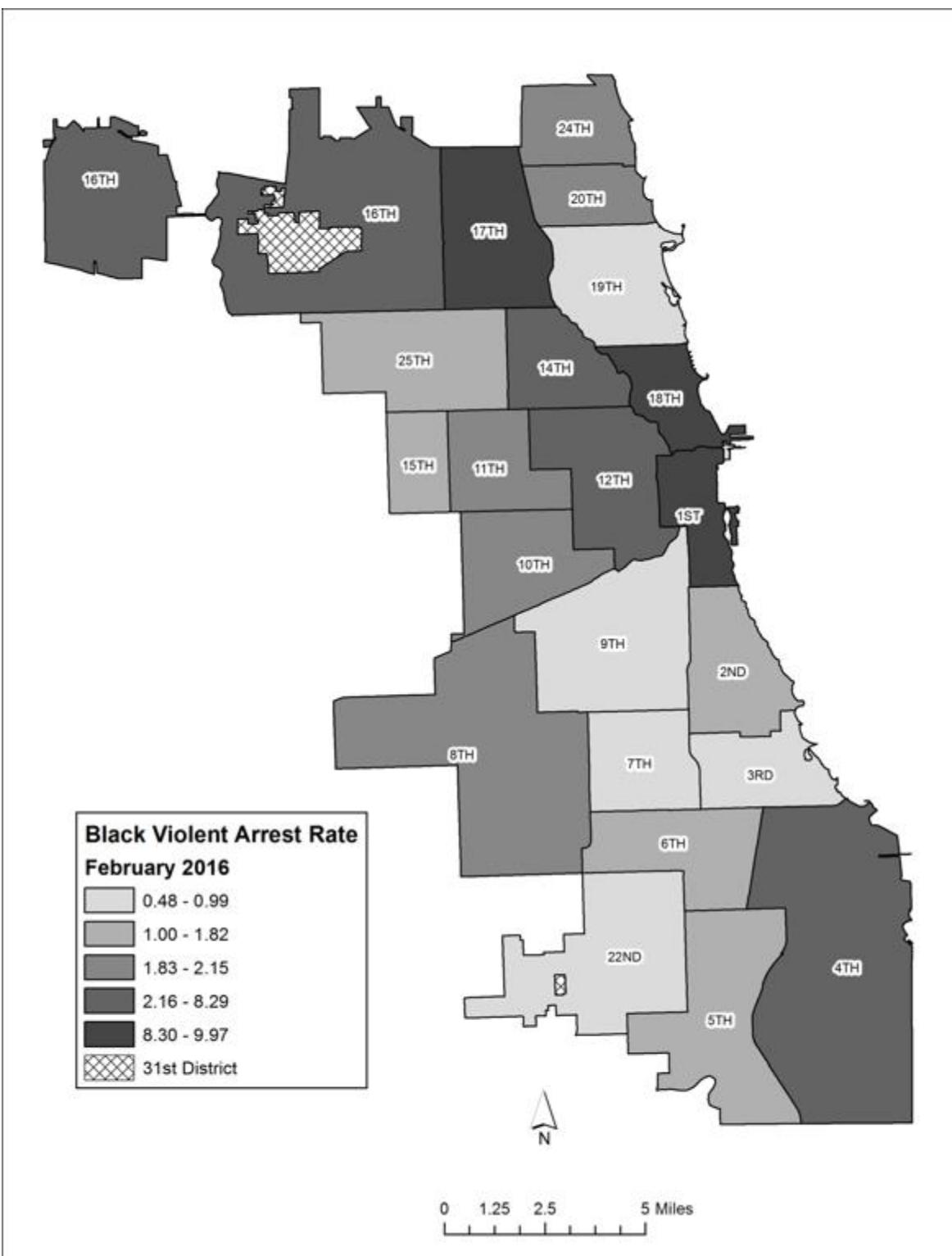
APPENDIX F: Black Violent Arrest Rate, April 2014



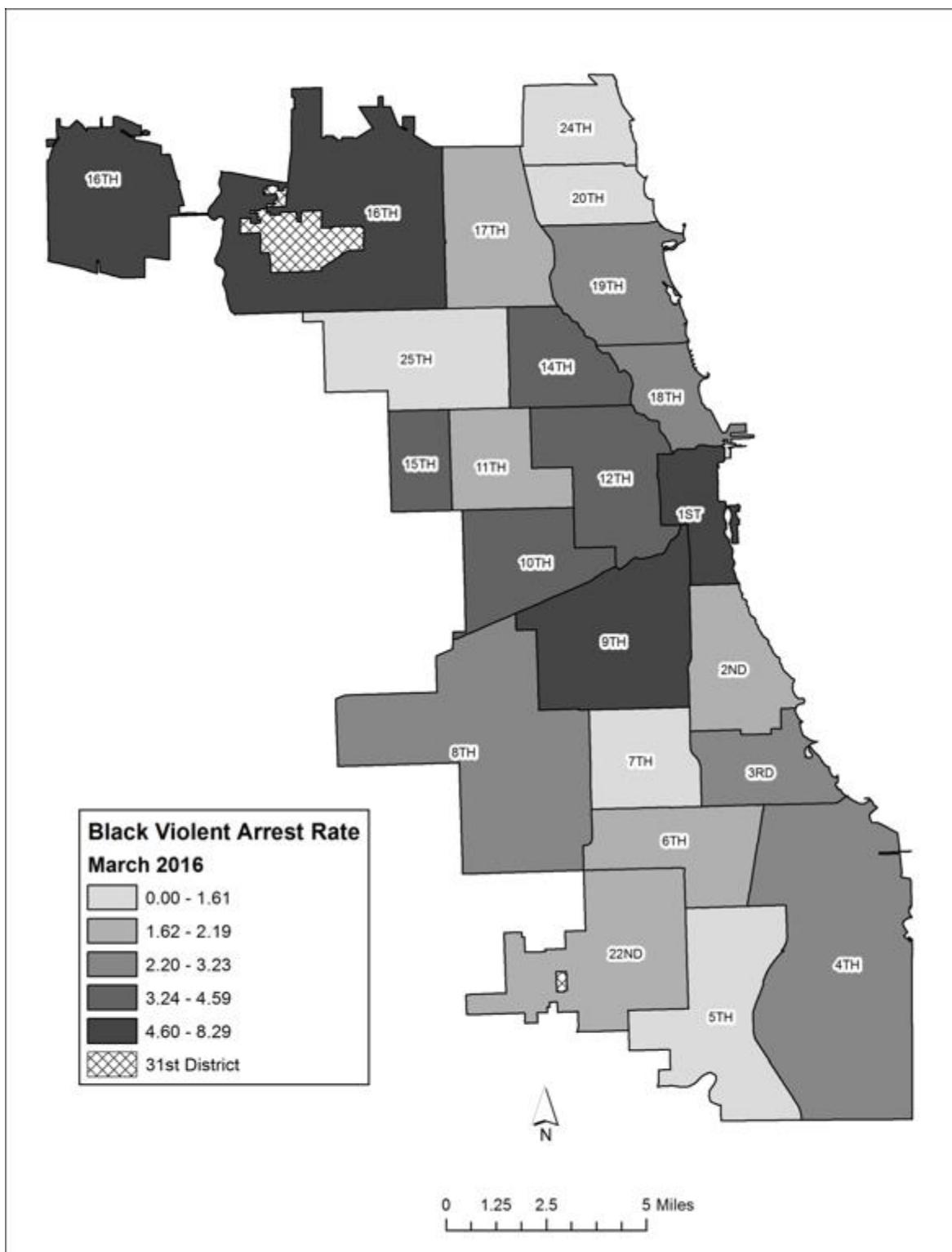
APPENDIX G: Black Violent Arrest Rate, January 2016



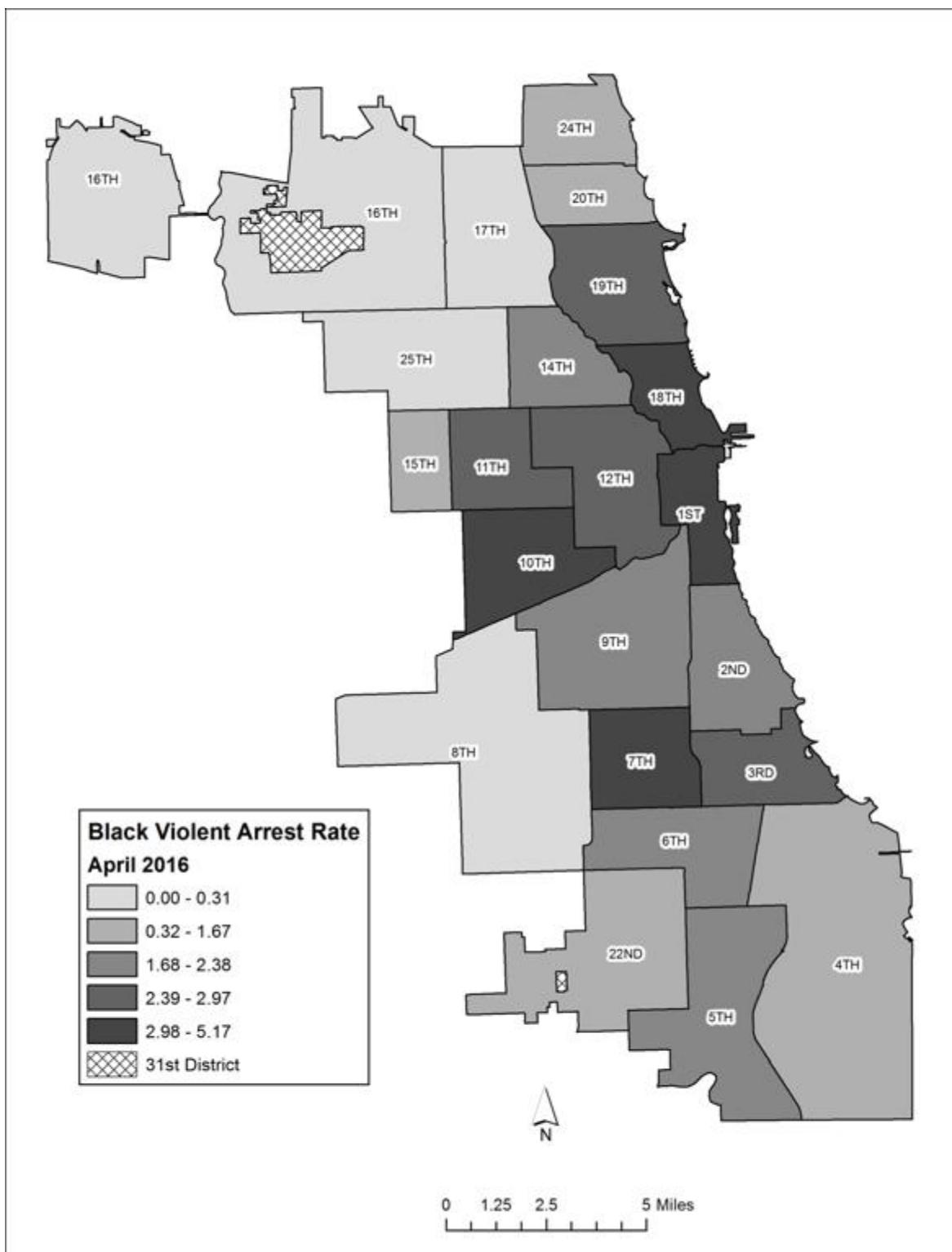
APPENDIX H: Black Violent Arrest Rate, February 2016



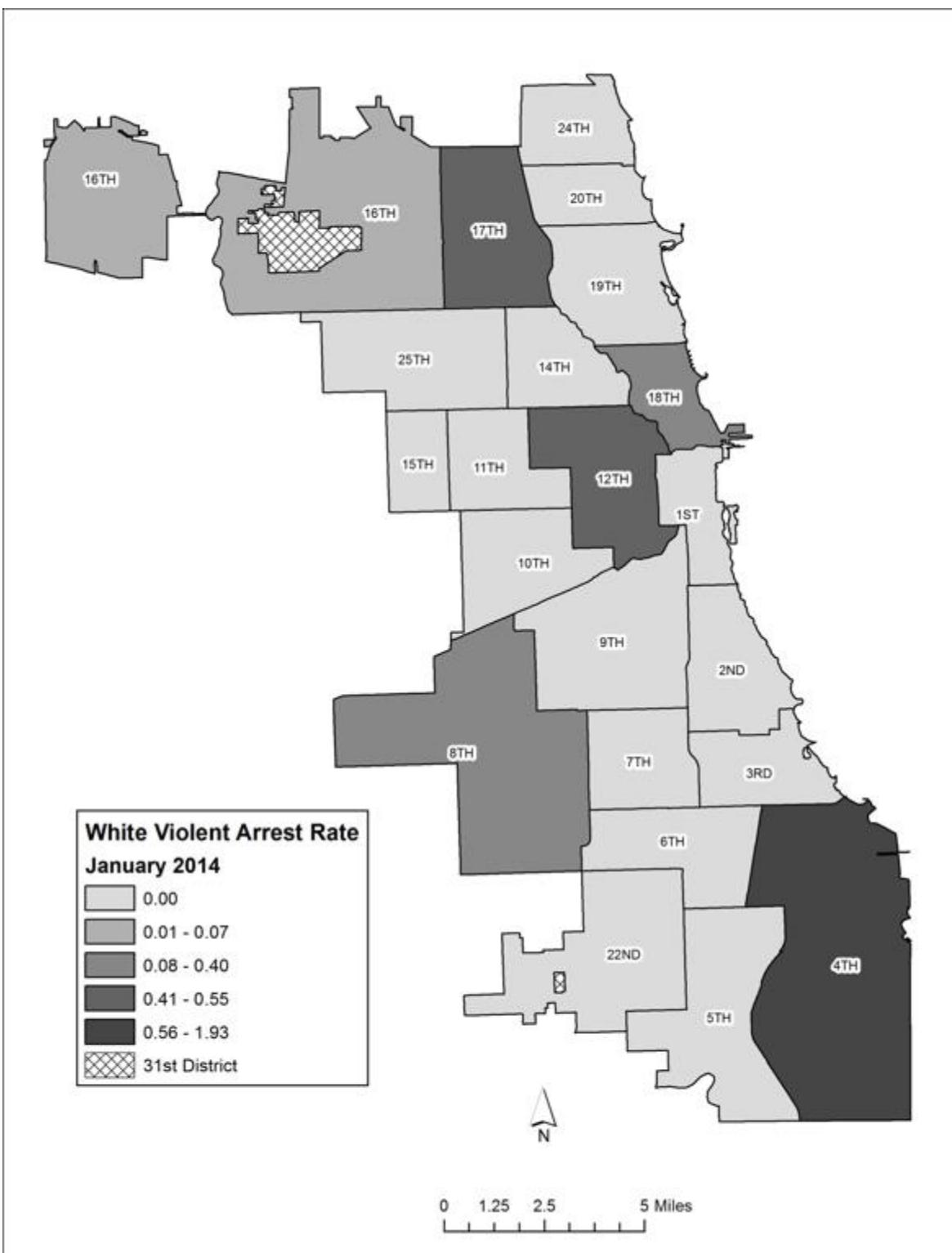
APPENDIX I: Black Violent Arrest Rate, March 2016



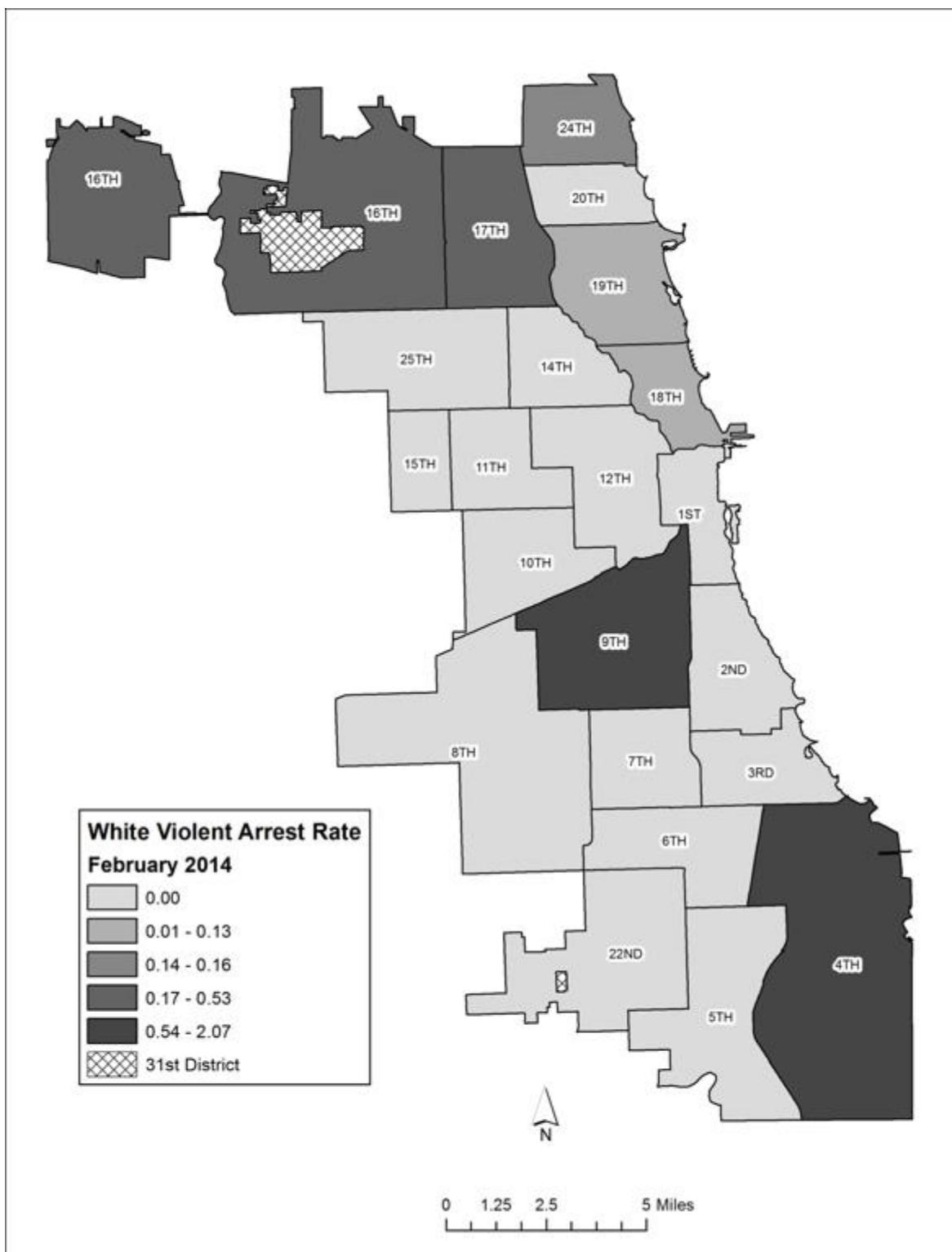
APPENDIX J: Black Violent Arrest Rate, April 2016



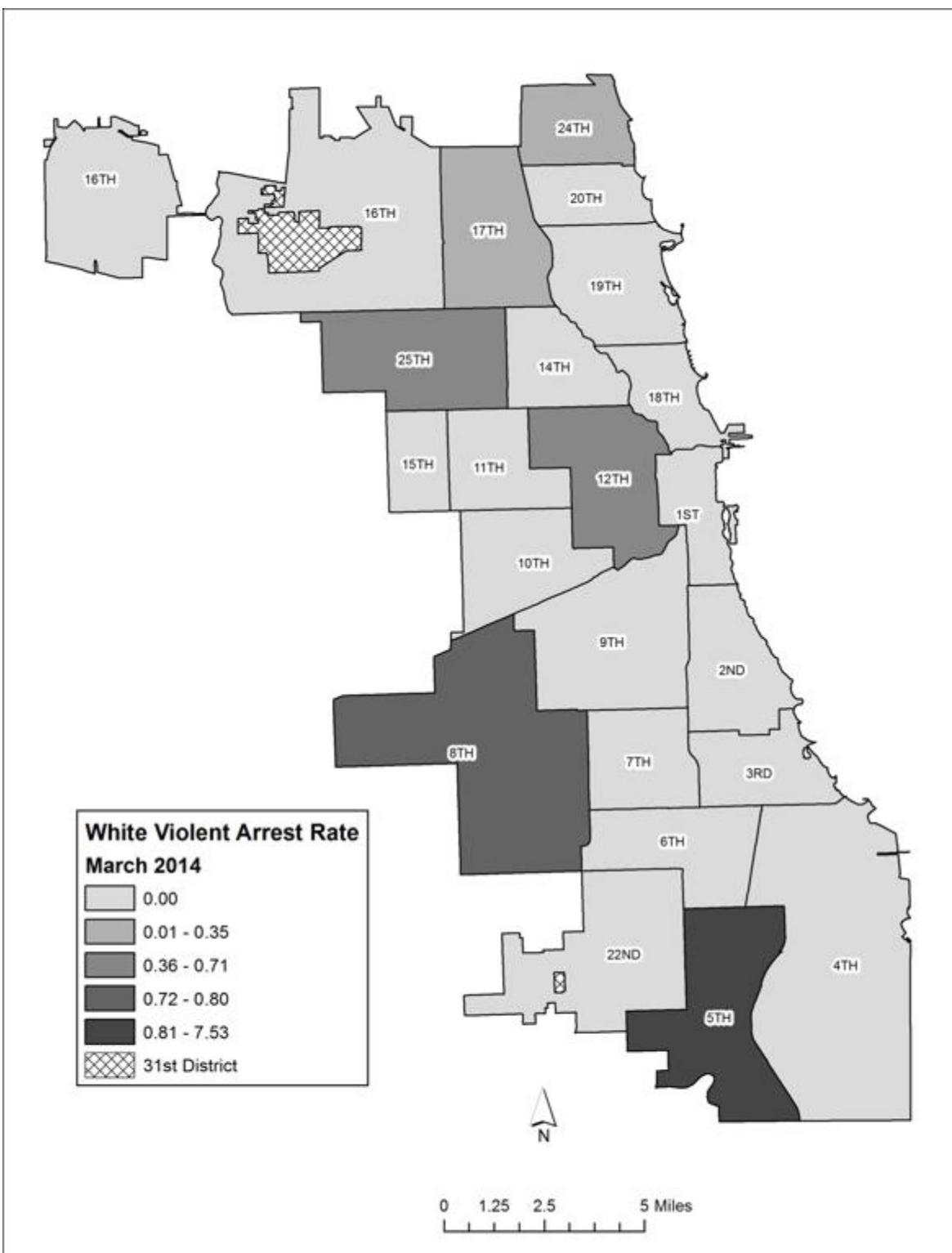
APPENDIX K: White Violent Arrest Rate, January 2014



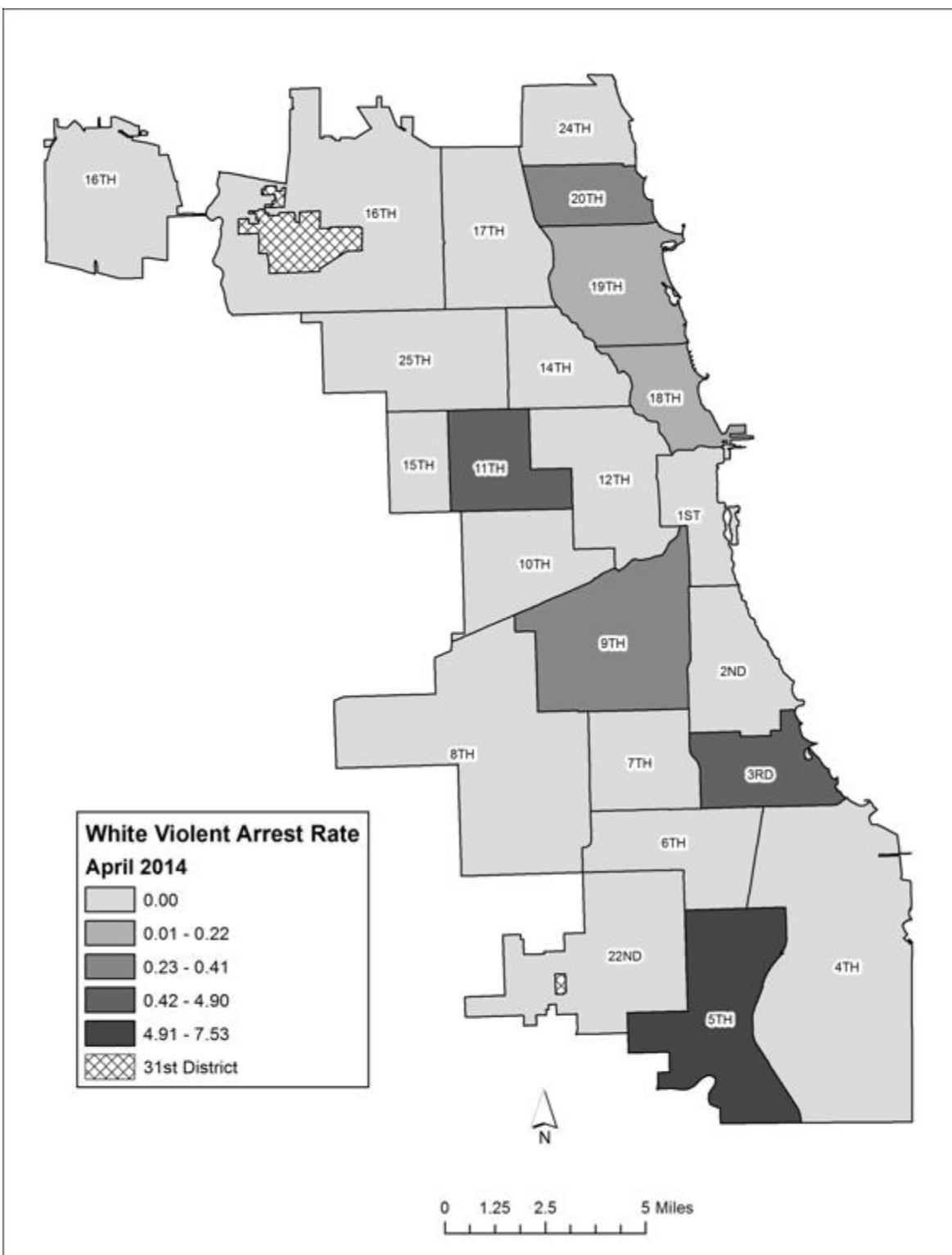
APPENDIX L: White Violent Arrest Rate, February 2014



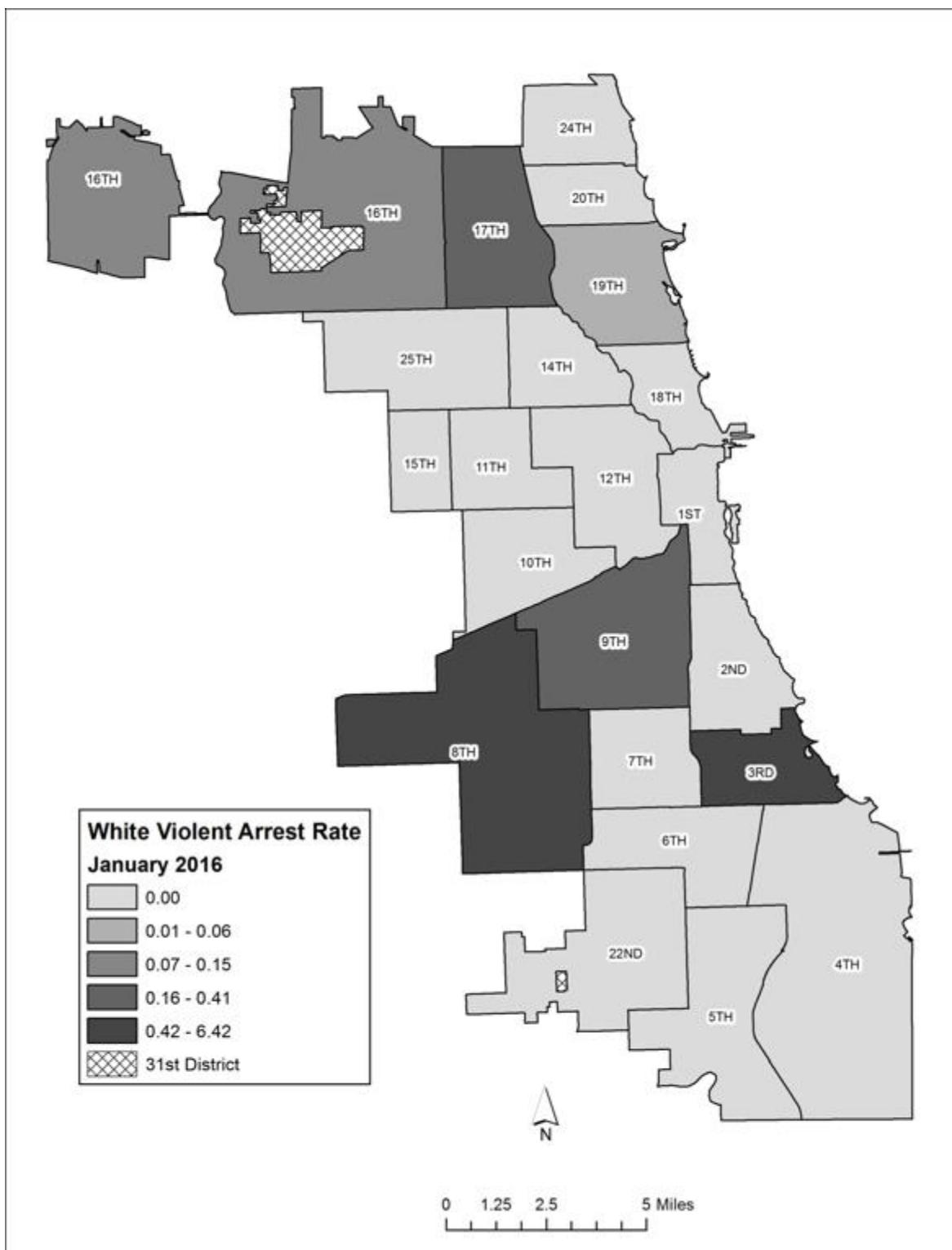
APPENDIX M: White Violent Arrest Rate, March 2014



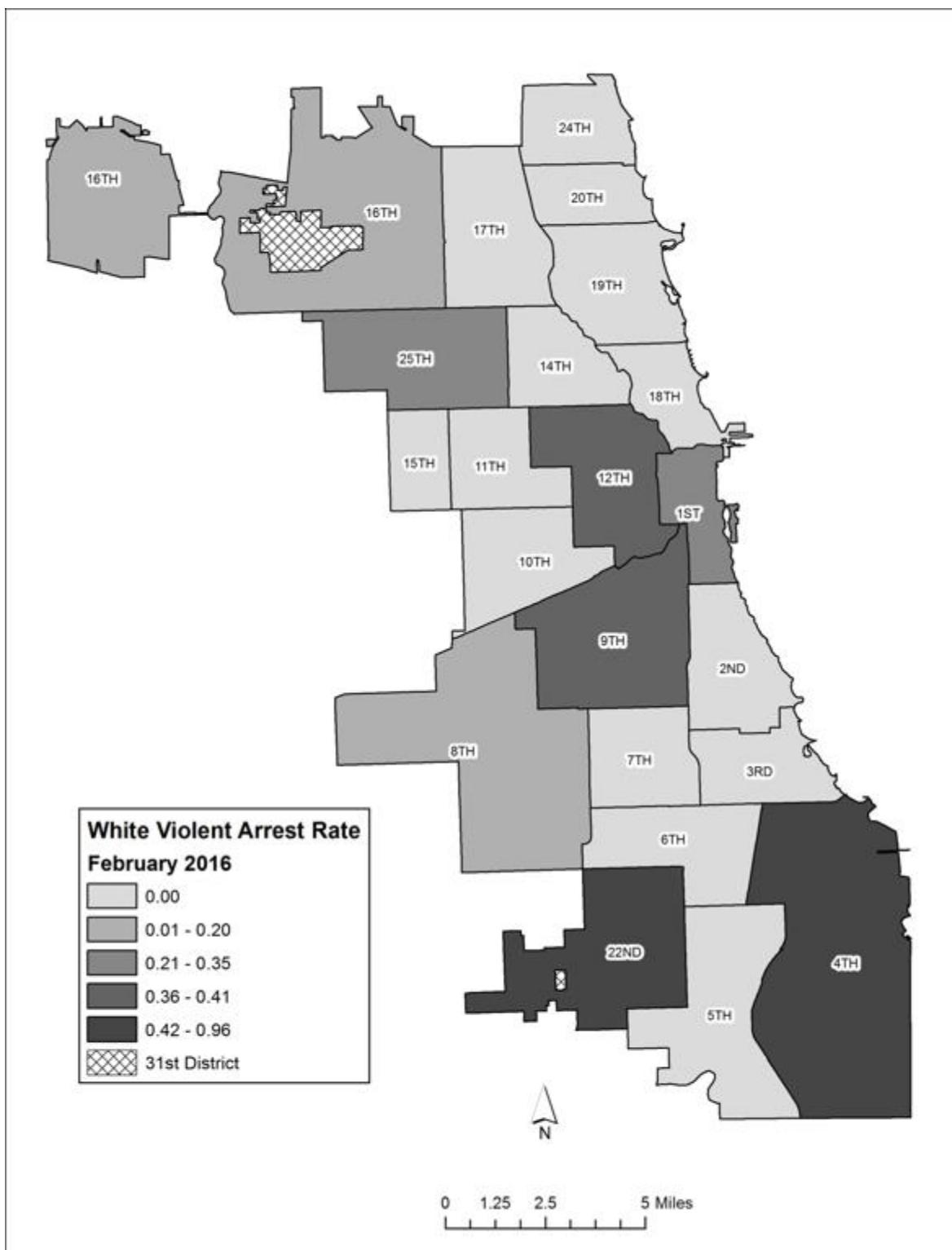
APPENDIX N: White Violent Arrest Rate, April 2014



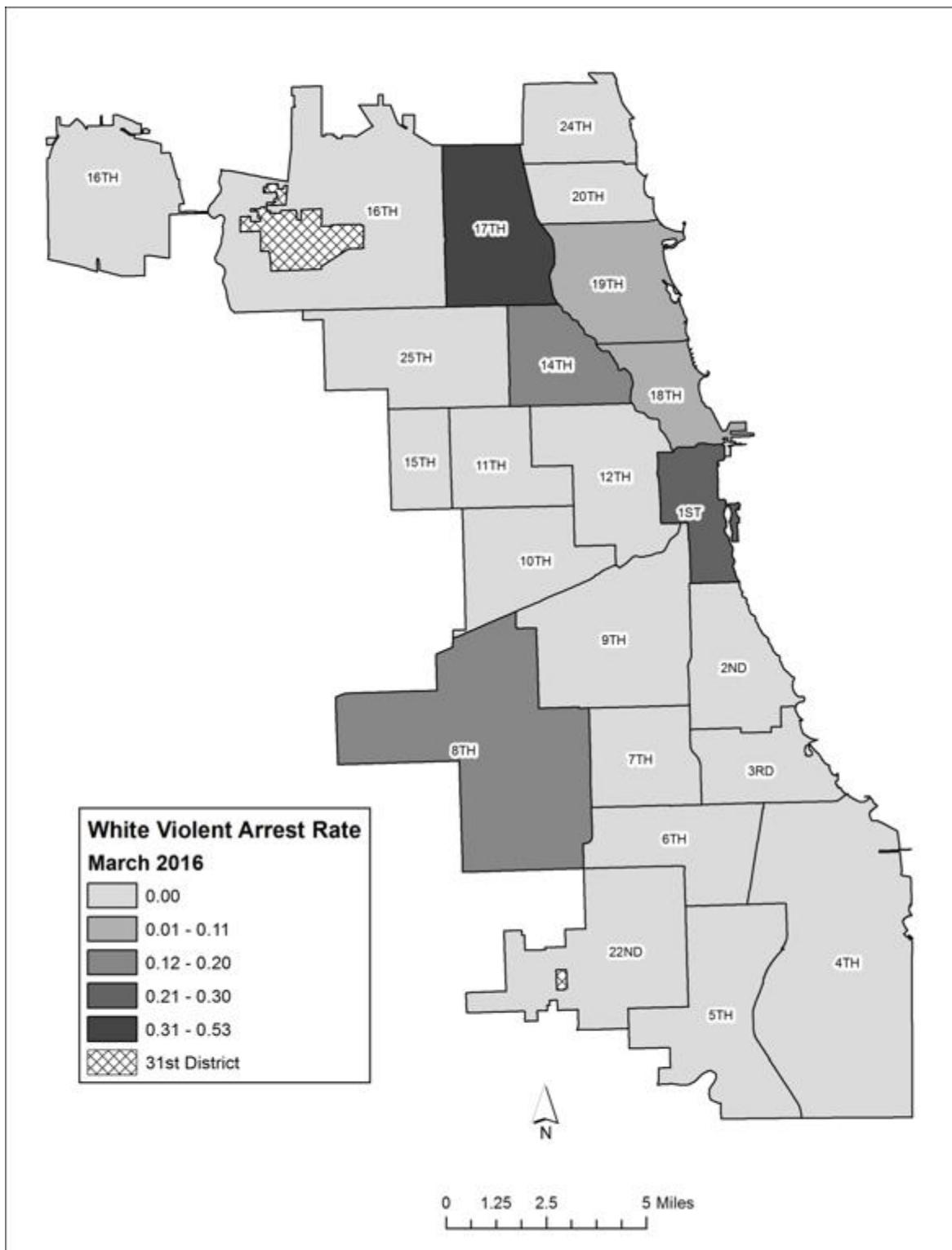
APPENDIX O: White Violent Arrest Rate, January 2016



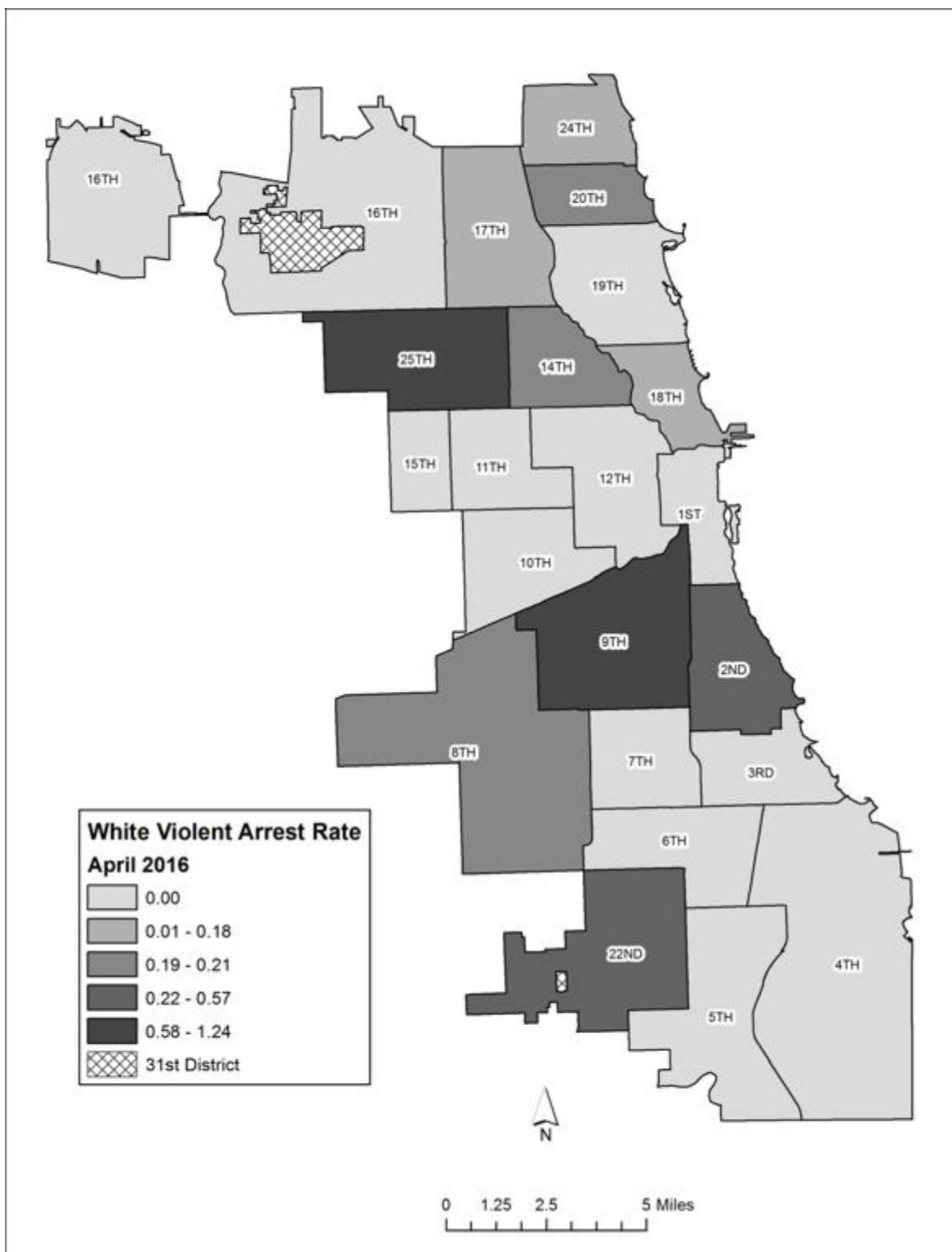
APPENDIX P: White Violent Arrest Rate, February 2016



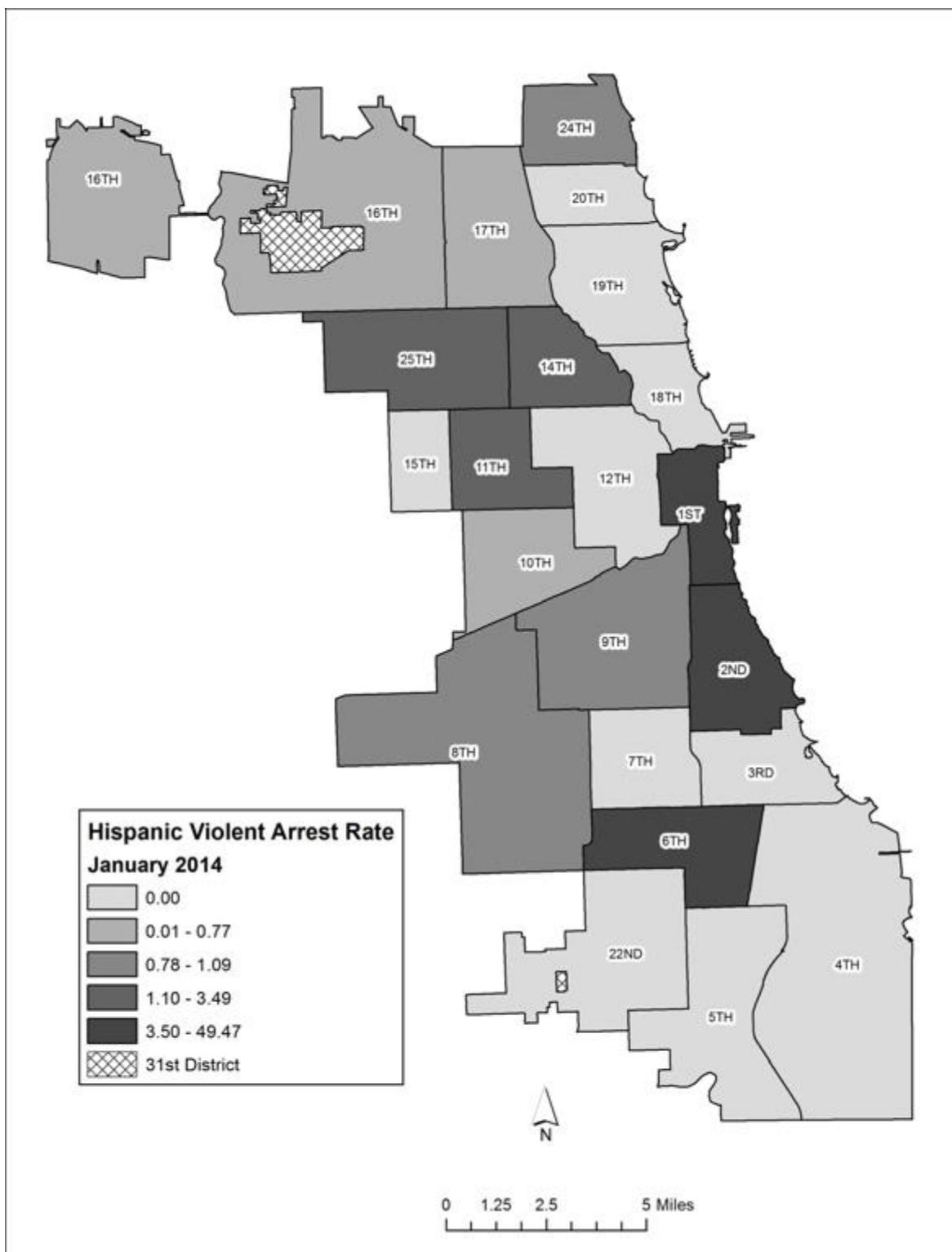
APPENDIX Q: White Violent Arrest Rate, March 2016



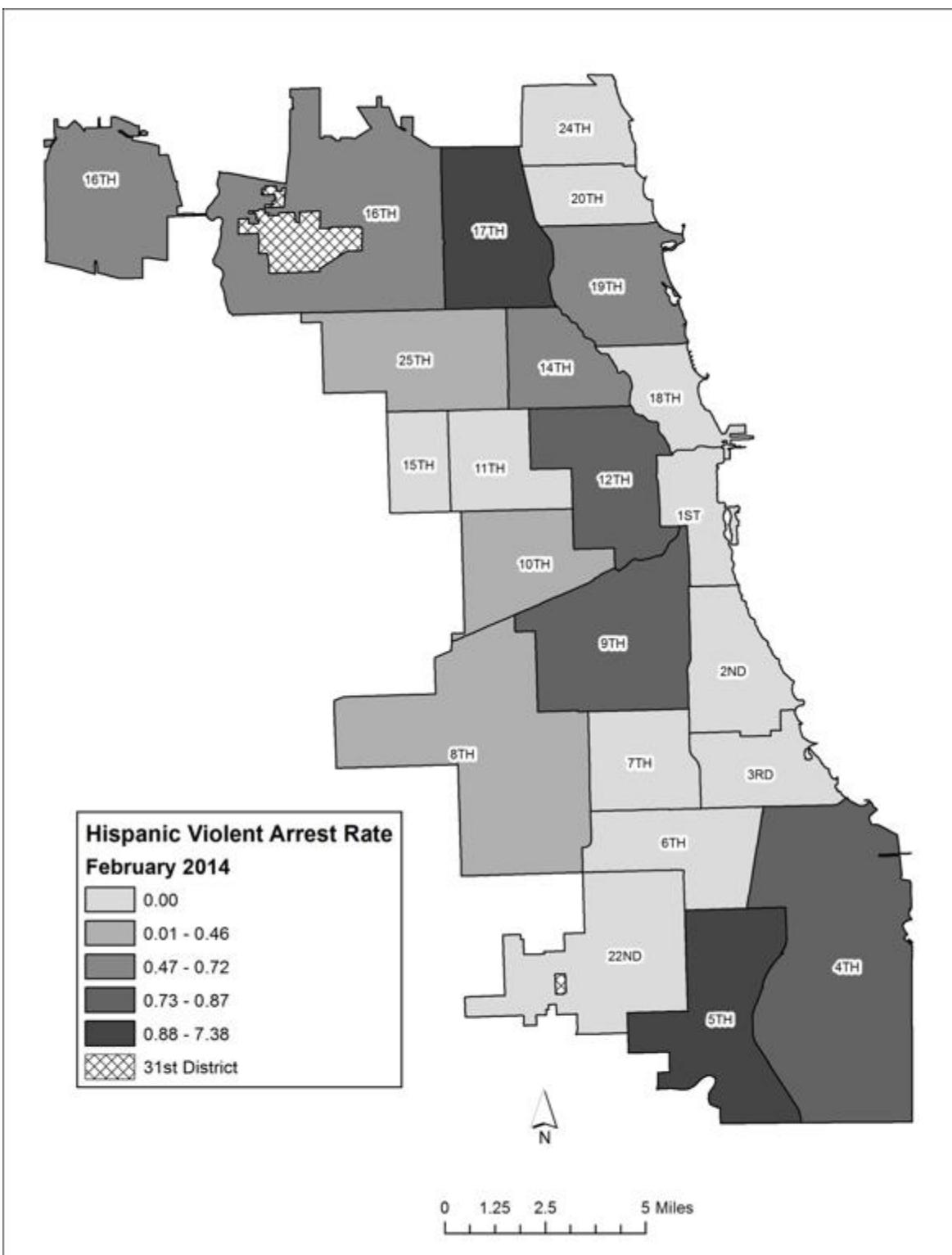
APPENDIX R: White Violent Arrest Rate, April 2016



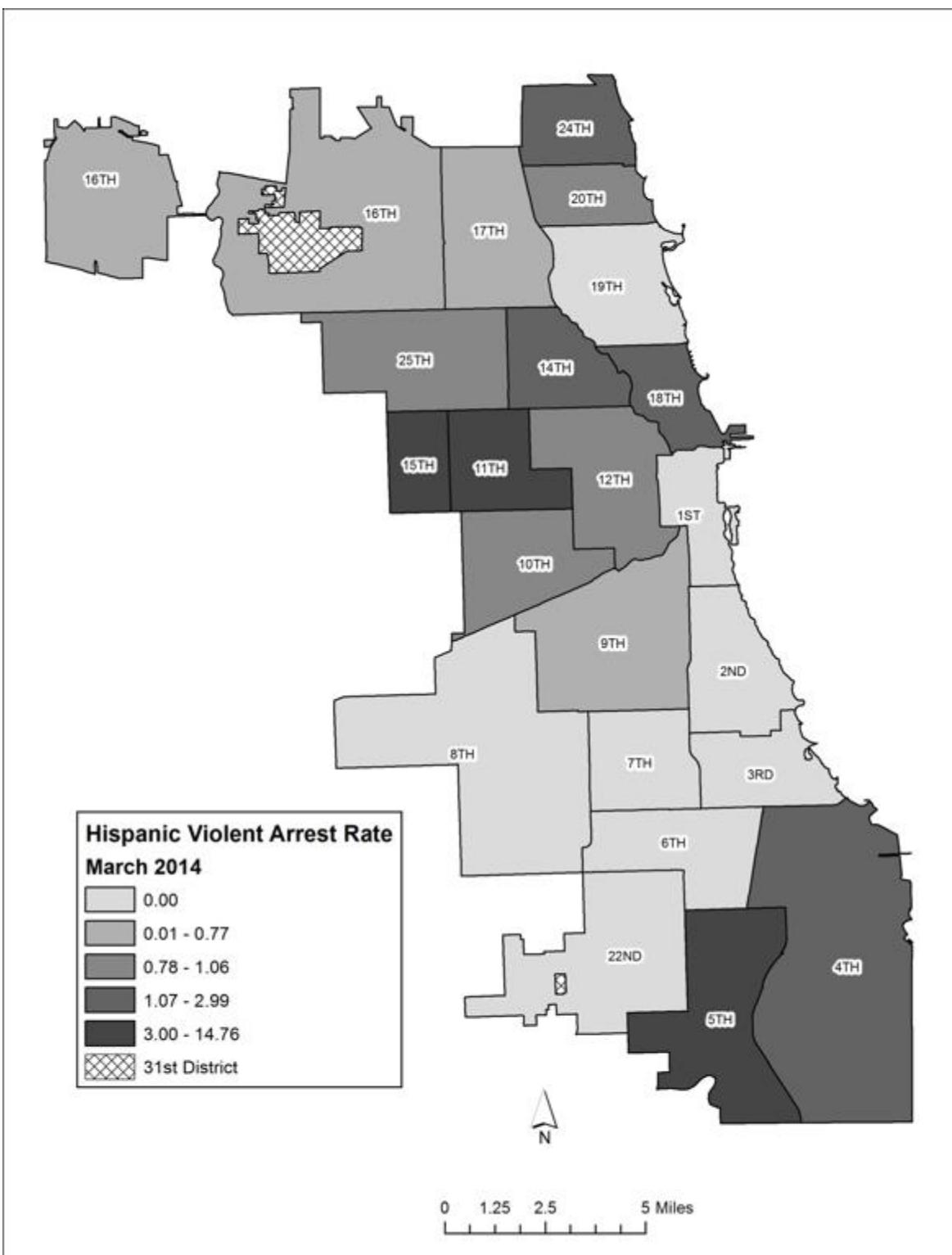
APPENDIX S: Hispanic Violent Arrest Rate, January 2014



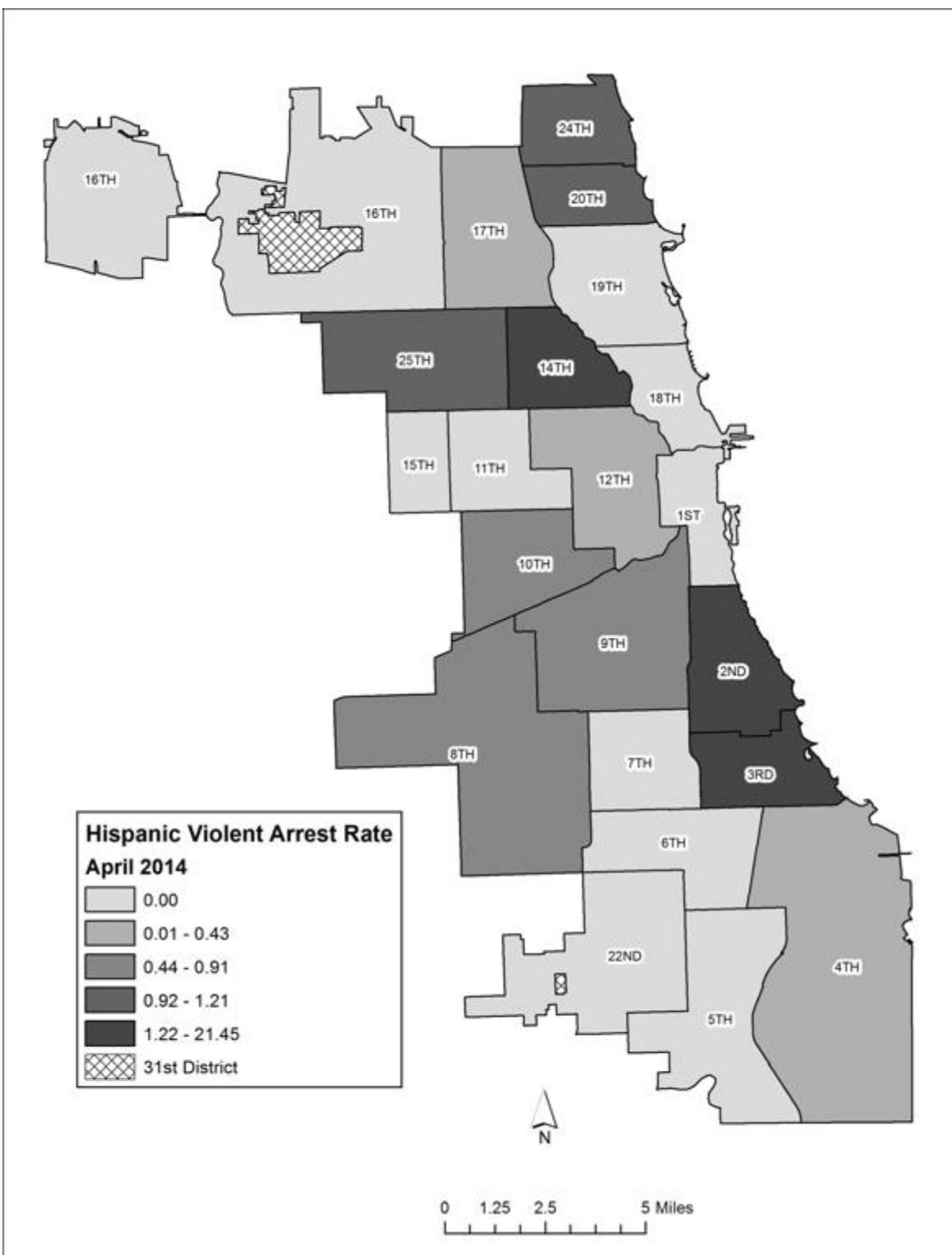
APPENDIX T: Hispanic Violent Arrest Rate, February 2014



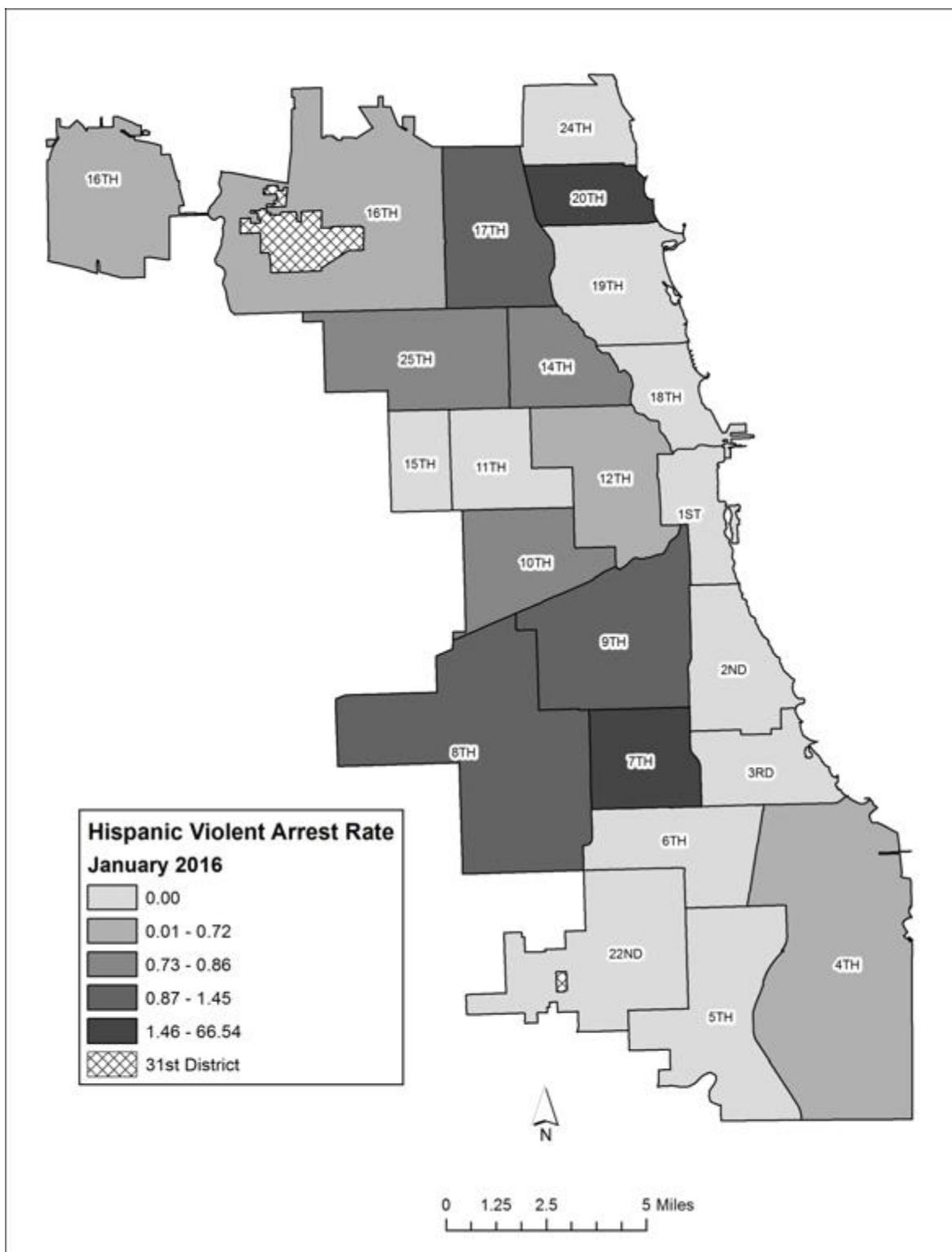
APPENDIX U: Hispanic Violent Arrest Rate, March 2014



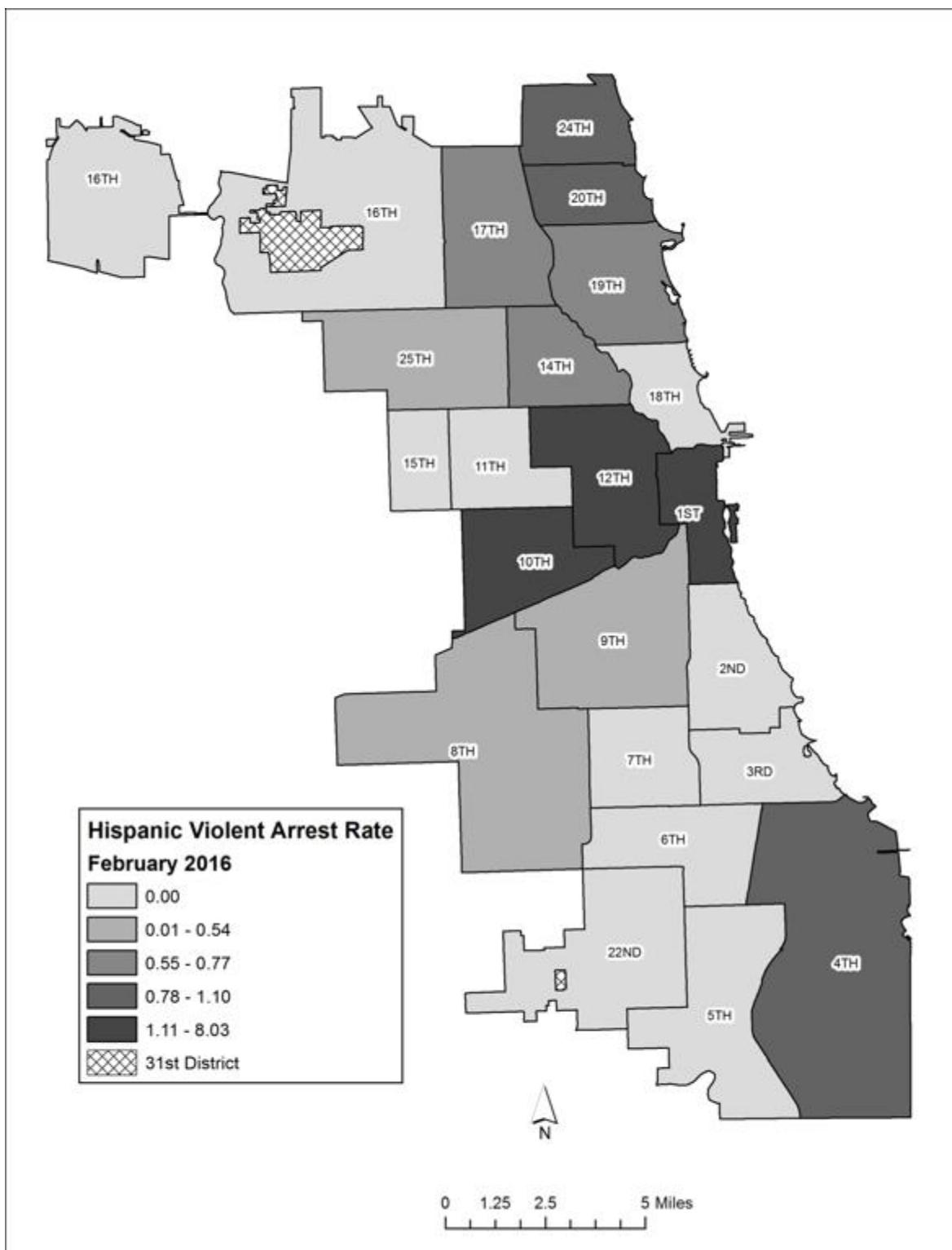
APPENDIX V: Hispanic Violent Arrest Rate, April 2014



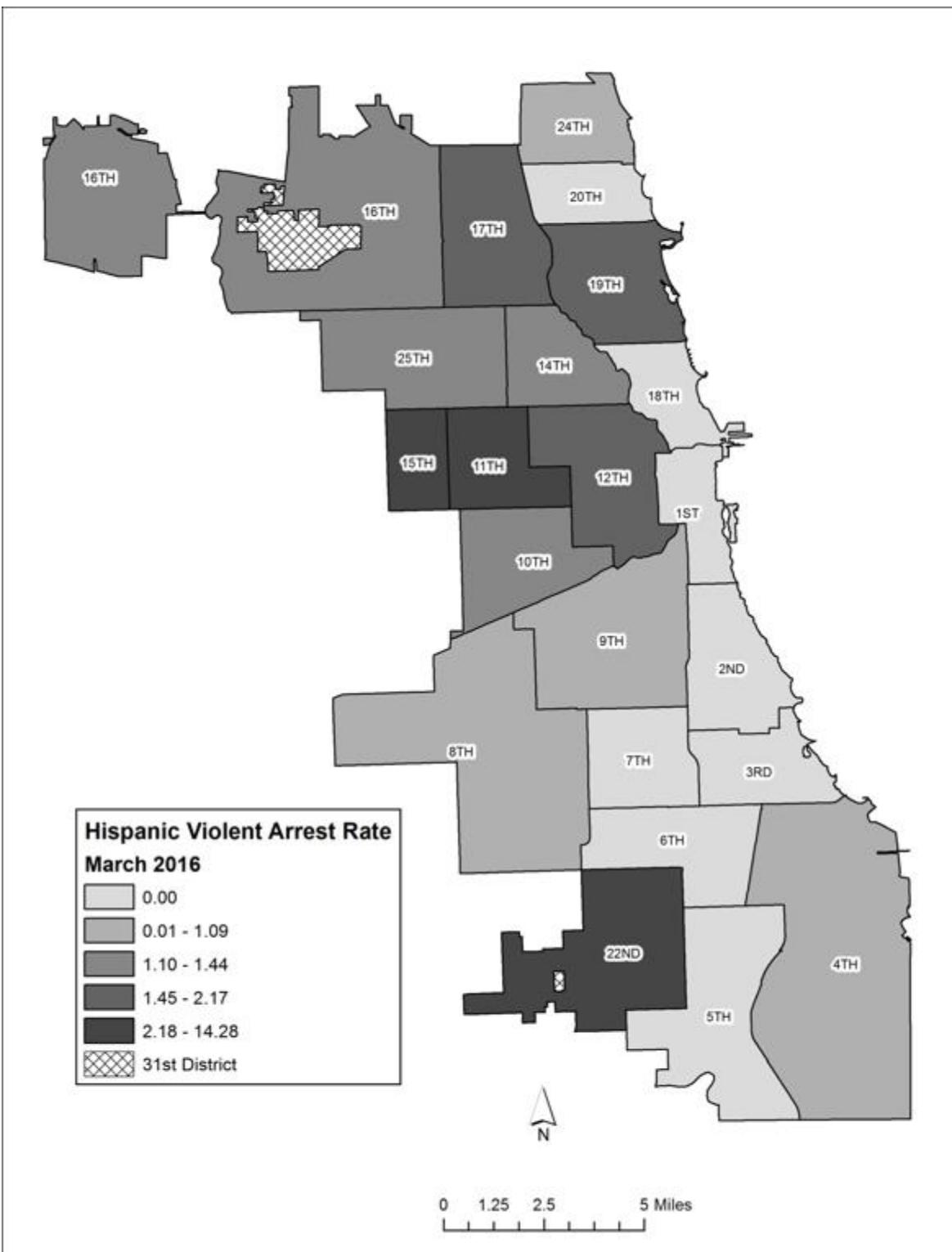
APPENDIX W: Hispanic Violent Arrest Rate, January 2016



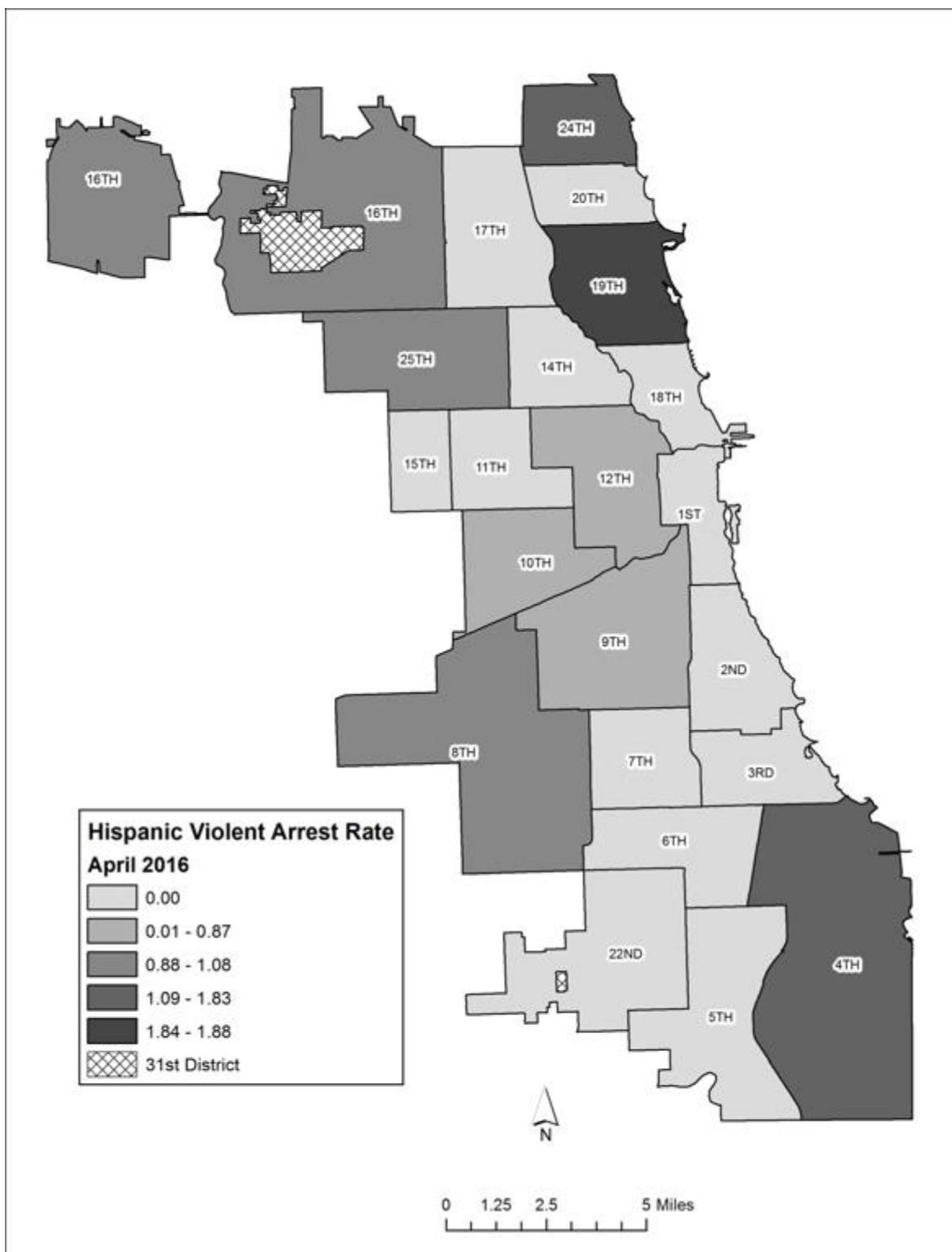
APPENDIX X: Hispanic Violent Arrest Rate, February 2016



APPENDIX Y: Hispanic Violent Arrest Rate, March 2016



APPENDIX Z: Hispanic Violent Arrest Rate, April 2016



References

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