Payday Lenders and the Military: A Study of Hampton Roads, Virginia

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Introduction

Payday Lenders have long been identified as targeting military populations

Area of concern to leadership due to security risks

- Hampton Roads has unique military and civilian makeup, making it an ideal area to study
 - Large Military Population: Army, Navy, Air Force, and Coast Guard (arguably the most militarized region in the US)

Varied Civilian Population: income, rural/urban, ethnic groups

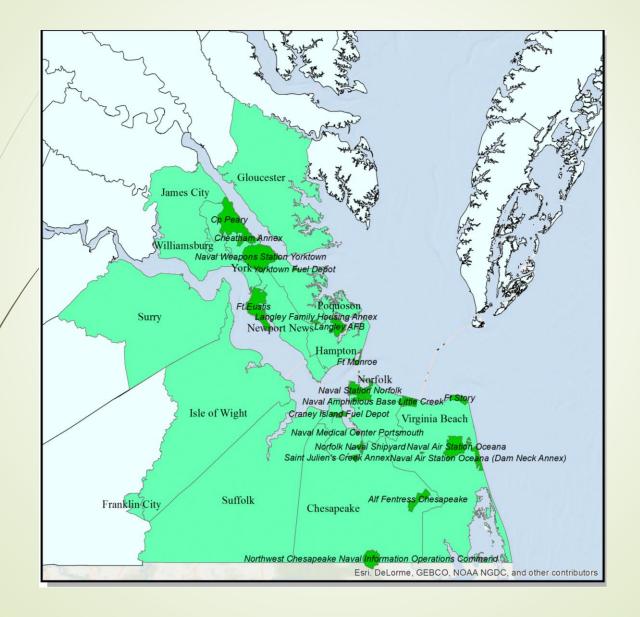
Background

- Payday Lenders charge extremely high interest rates and have historically preyed on junior service members
- 2005 Graves and Peterson "Predatory Lending and the Military: The Law and Geography of 'Payday' Loans in Military Towns"
 - Looked at 20 states, 109 military installations, and 15,000 payday lenders
 - Found greater concentrations of payday lenders per capita near military installations

Federal & State Measures

- Congress passes Military Lending Act in 2006
 - Caps interest rate at 36%
 - Requires rights disclosure
 - Prohibits arbitration
 - Can't waive Service member's Civil Relief Act (2015)
- Service Response
 - Varies by Service
- Virginia (2009)
 - Restricted loans to one at a time per borrower
 - Established tracking database to determine eligibility
 - Created mandatory longer repayment times
 - Capped interest rate at 36%
 - Limited fees to 20% of loan
 - May not make loans to military members, spouses or dependents
 - \$1,000 fine per violation
 - 29.41% decrease in Payday Lenders in 2009

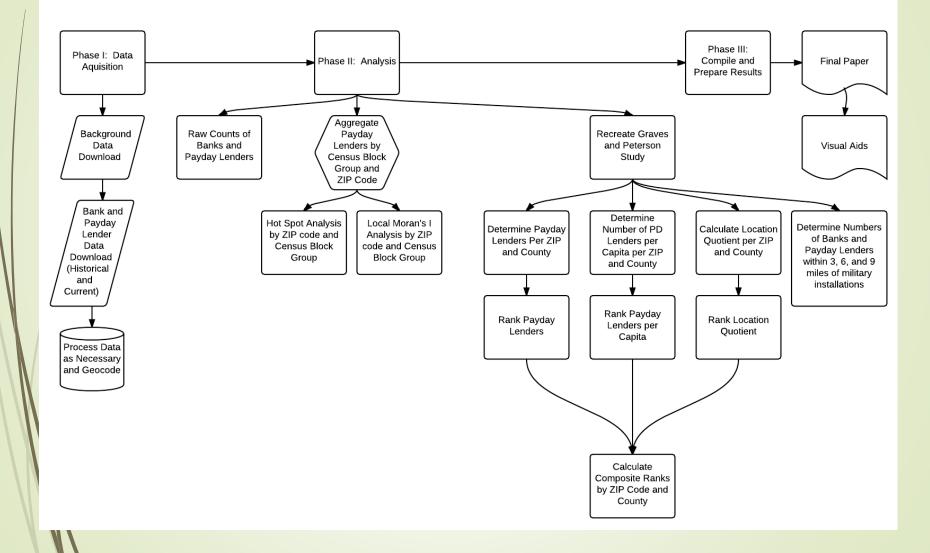
Hampton Roads



Goals and Objectives

- Determine if numbers of payday lenders have decreased since 2005
- Determine if Military has continued to be a target

Methodology



Methodology: Phase I

Obtained Data Background data US Census Bureau TIGER US Geological Survey ESRI ArcGIS Online Payday Lenders/Banks **American Factfinder** (historical numbers) Virginia State Corporation Commission Geocode FDIC

Methodology: Phase II

Compared Raw Counts

- Compare historical numbers and current numbers of payday lenders and banks
- Accomplished by ZIP code & county
- Overlay 3, 6, 9 mile buffers from military installations
 - Why? Payday lending industry wants locations w/in 3 miles of the populations they serve
 - Counts of payday lenders, people, and banks in the zones

Raw count county result

	<u>3 Miles</u>	<u>6 Miles</u>	<u>9 Miles</u>
Banks	216	312	326
PayDay Lenders	26	37	39

2016

County/City	Number Banks	Number PD	County/City	Number Banks	Change	Number PD	Change
Chesapeake	50	18	Chesapeake	47	-3	4	-14
Franklin	15	2	Franklin	4	-11	1	-1
Gloucester	15	2	Gloucester	12	-3	1	-1
Hampton	29	16	Hampton	23	-6	4	-12
Isle of Wight	6	4	Isle of Wight	8	2	1	-3
James City	20	0	James City	21	1	0	0
Newport News	38	21	Newport News	31	-7	6	-15
Norfolk	77	30	Norfolk	48	-29	12	-18
Poquoson	1	1	Poquoson	2	1	0	-1
Portsmouth	19	14	Portsmouth	14	-5	5	-9
Suffolk	15	5	Suffolk	21	6	3	-2
Surry	2	0	Surry	1	-1	0	0
Virginia Beach	91	51	Virginia Beach	91	0	6	-45
Williamsburg	14	1	Williamsburg	10	-4	0	-1
York	13	3	York	15	2	0	-3
	405	168		348	-57	43	-125

-14% -74%

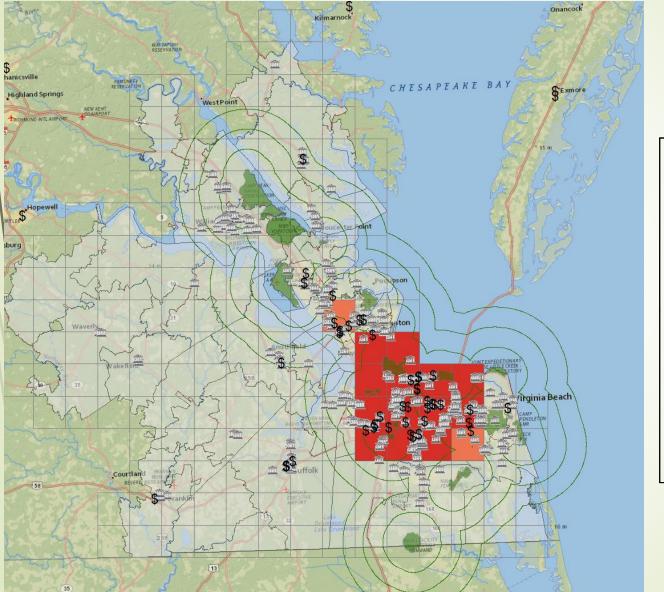
Source Data: FDIC, U.S. Census Bureau 2005 Business Pattern Survey, and Virginia State Corporation Commission

Phase II: Complete Hot Spot Analysis

- Aggregated current point data by census block group & ZIP code
 - ZIP Code Analysis Inconclusive, created a fish net instead
- Identified statistically significant clusters of high and low values of payday lenders

Overlaid 3, 6, 9 mile buffers from military installations

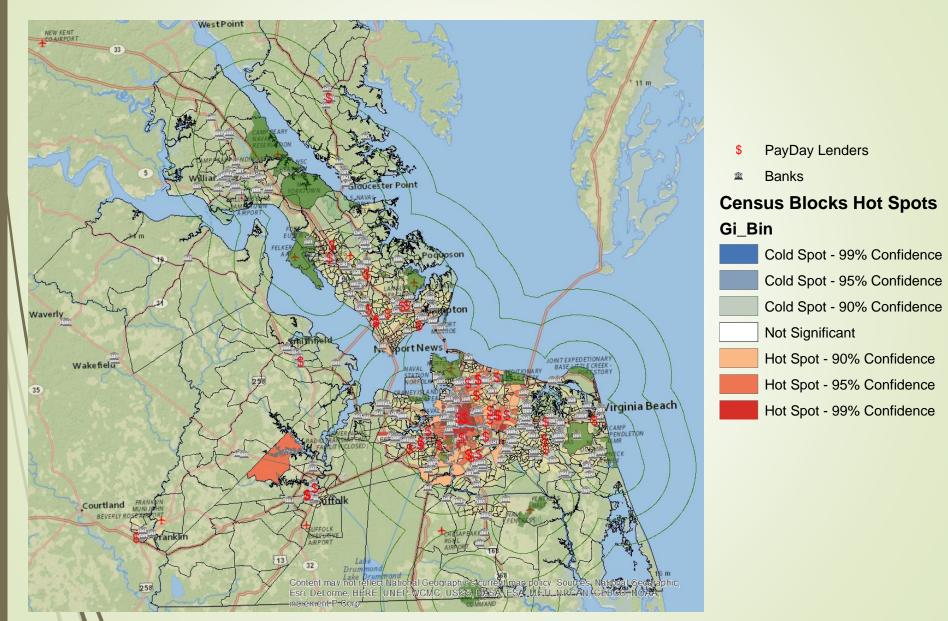
Fish Net Hot Spot Results



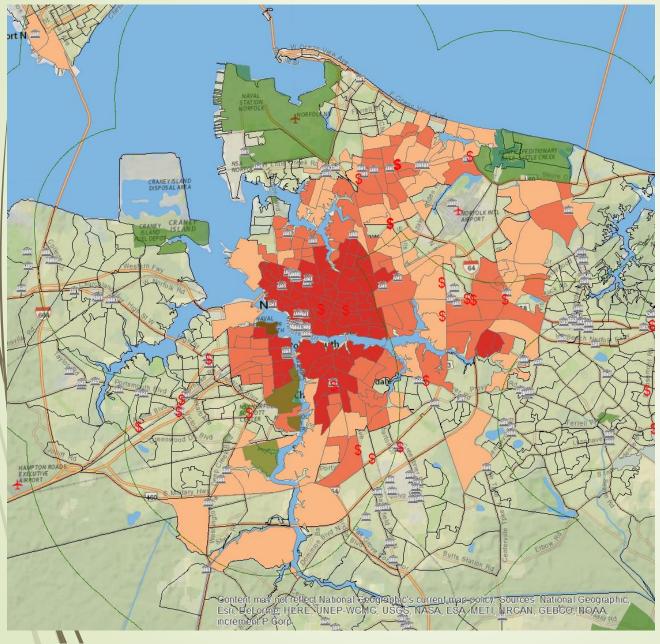
Moontent may not reflect National Geographic's current map policy. Sources National Geographic, Esti, DeLorme, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.



Census Block Group Hot Spot Results

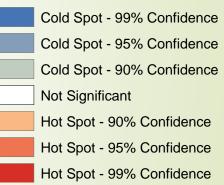


Census Block Group Hot Spot Results



- \$ PayDay Lenders
- Banks

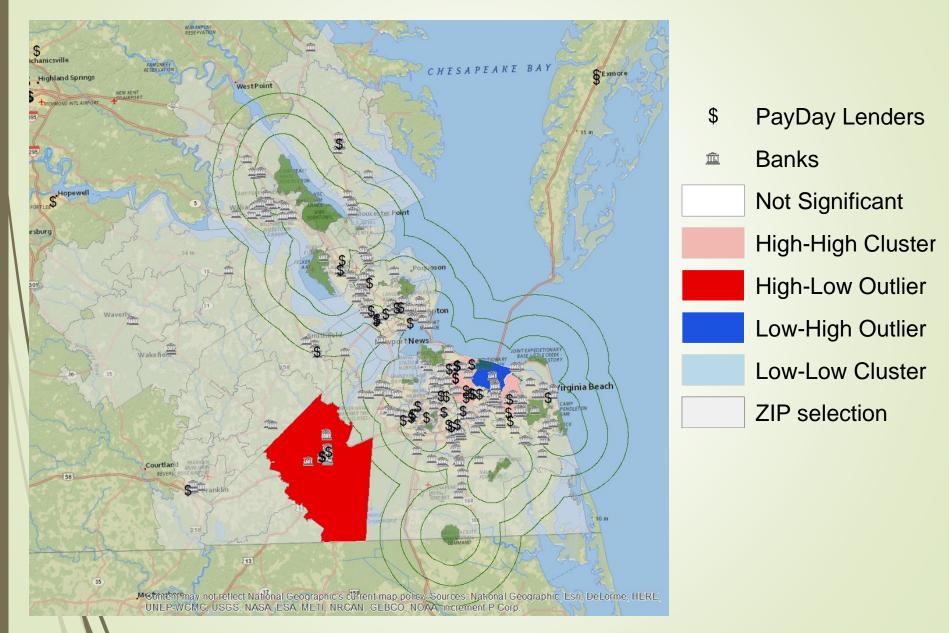
Census Blocks Hot Spots Gi_Bin



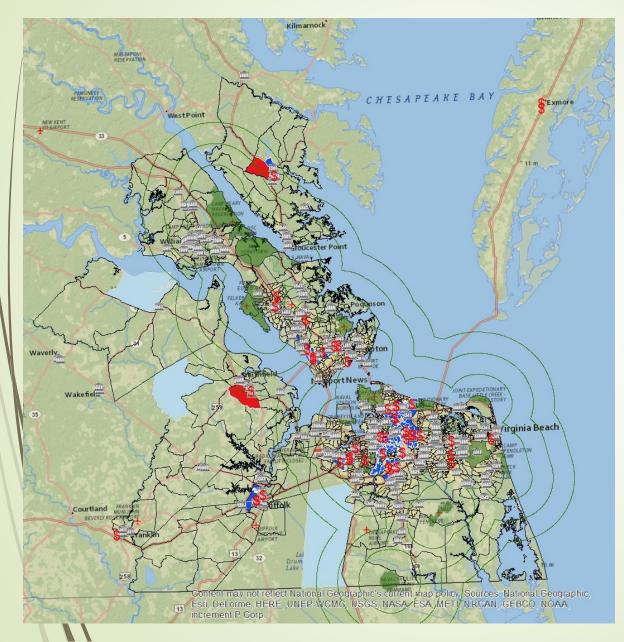
Phase II: Complete Anselin Local Moran's I Analysis

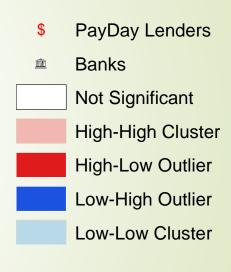
- Aggregated current point data by census block group & ZIP code
- Identified any spatial clusters of features with high or low values
- Only tool that identified statistically significant outliers
- Overlay 3, 6, 9 mile buffers from military installations

ZIP Anselin Local Moran's I Results

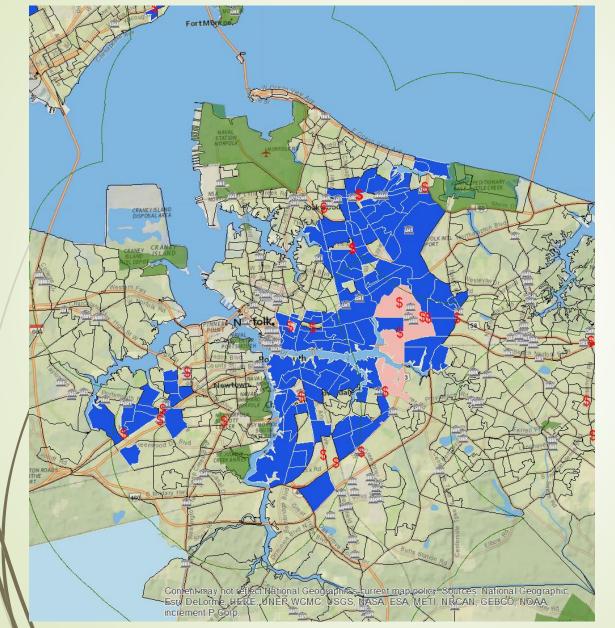


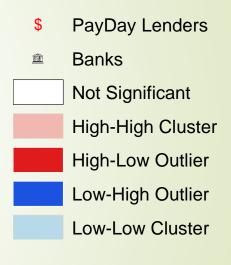
Census Block Anselin Moran's I Results





Census Block Anselin Moran's I Norfolk





Recreate Graves and Peterson Study

- Calculate Statewide Average of Payday Lenders Per 100K people
 - Enables prediction of payday lenders per unit (county or ZIP code)
 - Allows comparison of predicted numbers vs. actual numbers in any given area
- Data presented by ZIP Codes and Counties
 - Rank Payday Lenders
 - Rank Payday Lenders Per Capita

Recreate Graves and Peterson Study

Calculate Location Quotient

$$\operatorname{ZIP}\operatorname{Code} LQ = \left[\frac{X}{(X+Y) \times 100}\right] + (X-Y)$$

County
$$LQ = \left[\frac{X}{Y}\right] x \ 100$$

LQ= Location Quotient, X and Y = Banks and Payday Lenders Not standard LQ formula but ones developed by Graves and Peterson

Recreate Graves and Peterson Study

Calculated Composite Index

- Average of Rank of Payday Lenders, Payday Lenders per Capita Rank, and Location Quotient for each county and ZIP code
- This creates a method for showing proximity of payday lenders to bases with a single number
- Created 3, 6, 9 mile buffer zones around military installations
 - Ranked results by County and ZIP code

Results by County

Nearest Base	County/City	Pop Banks	PD Lenders	PD/100K Po	р Ехр Рі	ο ια	Rank LQ	Rank PD	Rank PC	Sum of Ranks	Compos Rank	Previous site Statewic Rank	
Multiple Sites	Norfolk	242,803	48	12	4.94	6.31	25.00	2	1	2	5	1	7
Multiple Sites Ft. Eustis,	Portsmouth Newport	95,535	14	5	5.21	2.16	35.71	1	3	1	5	1	3
Langely AFB	News	180,719	31	6	3.31	4.08	19.35	3	2	4	9	3	5
	Suffolk	84,585	21	3	3.52	1.91	14.29	5	5	3 :	13	4	
Langley AFB	Hampton	167,463	23	4	2.4	3.78	17.39	4	4	7	15	5	7
	Franklin	56,159	4	1	1.78	1.27	25.00	2	6	9 2	17	6	
	Isle of Wight	35,270	8	1	2.86	0.80	12.50	6	6	5 2	17	6	
Multiple Sites	Chesapeake	222,209	47	4	1.8	5.02	8.51	7	4	8	19	8	19
	Gloucester	36,858	12	1	2.7	0.83	8.33	8	6	6 2	20	9	
NAS Oceania, Ft Story, Others	Virginia Beach	437,994	91	6	1.37	9.90	6.59	9	2	10 2	21	10	14
Cp Peary	James City	67,009	21	0	0	1.51	0.00	10	7	11 2	28	11	
Langley AFB	Poquoson	12,150	2	0	0	0.27	0.00	10	7	11 2	28	11	
	Surry	7,058	1	0	0	0.16	0.00	10	7	11 2	28	11	
Cp Peary	Williamsburg	14,068	10	0	0	0.32	0.00	10	7	11 2	28	11	
Multiple Sites	York	64,464	15	0	0	1.46	0.00	10	7	11 2	28	11	

Top Ten Results by ZIP Code

											<u>Composite</u>	<u>Previc</u> <u>Statev</u>	
<u>Nearby Base</u>	<u>ZIP</u>	<u>Town</u> P or CityL	<u>enders</u> Pop	<u>Ex</u>	<u>p PD</u> Bar	<u>ıks PD,</u>	/100K LQ Ranl	Ran PD PC	<u>«</u> Rank	<u>Sum</u> LQ Rani		<u>Rank</u>	
	23324	Chesap eake	3	22,851	0.52	1	13.13 2.01	2	2	1	5	1	21
Naval Base													
Amphibious													
Base Little													
Creek	23502	Norfolk	4	20,678	0.47	9	19.35 -5.00	1	1	8	10	2	6
	23701	Portsm outh	3	25,161	0.57	6	11.92 -3.00	2	3	6	11	3	9
Multiple	23702	Portsm outh	1	11,424	0.26	0	8.75 1.01	4	5	2	11	3	4
	23504	Norfolk	2	23,483	0.53	1	8.52 1.01	3	6	2	11	3	
Naval Base													
Amphibious													
Base Little													
Creek	23518	Norfolk	3	28,095	0.63	6	10.68 -3.00	2	4	6	12	6	10
		Newpor t											
	23605	News/H ampton	2	13,854	0.31	1	7.22 1.01	3	8	2	13	7	1
	23513	Norfolk	2	29,595	0.67	0	6.76 2.01	3	10	1	14	7	
	23851	Franklin City	1	13,715	0.31	4	7.29 -3.00	4	7	6	17	9	11
	23707	Portsm outh	1	14,236	0.32	3	7.02 -2.00	4	9	5	18	10	29

Overall Findings: Is This Still True?

Google Maps Newport News, Virginia

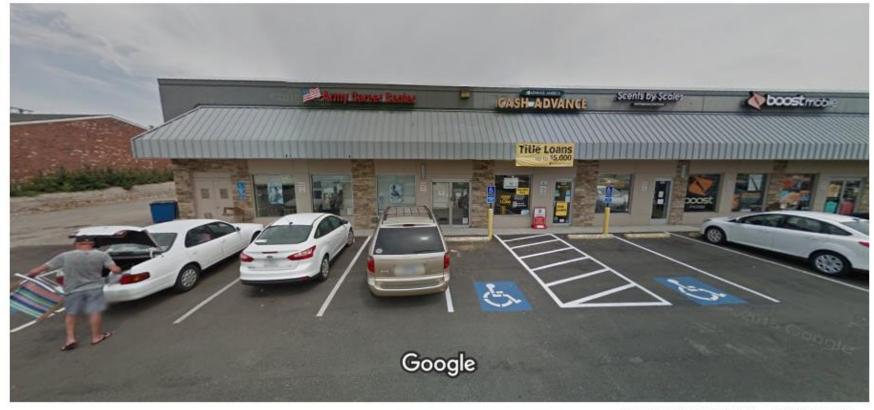


Image capture: Aug 2015 © 2016 Google

Street View - Aug 2015

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