

Russian Orthodox Churches
In
Massachusetts

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Orthodox Christianity

- A decidedly “Eastern” version of Christianity, which believes to be the original church of Christ.
- Practiced in countries that were part of the Byzantine empire located in Eastern and Southern Europe and Central Asia

Each Nation has its own orthodox church, which conducts sermons in the language of its nation. Nations in which Orthodox Christianity are prevalent include Greece, Russia, Moldova, Belarus, Cyprus, and Georgia.



Orthodox Christianity in the United States

- Most churches were built to accommodate immigrants arriving from Eastern and Southern Europe, where the faith is practiced. Most of these immigrants arrived in the later part of the 19th century and the early 20th century.
- Most prominent in cities that have significant population Russian, Greek, or other orthodox immigrants. Such as Cleveland and Chicago. Or rural areas with many Russian immigrants such as the Prairie Provinces in Western Canada.



Russian Orthodox Churches in Massachusetts

-Where are they located?

-Is immigration an important factor?

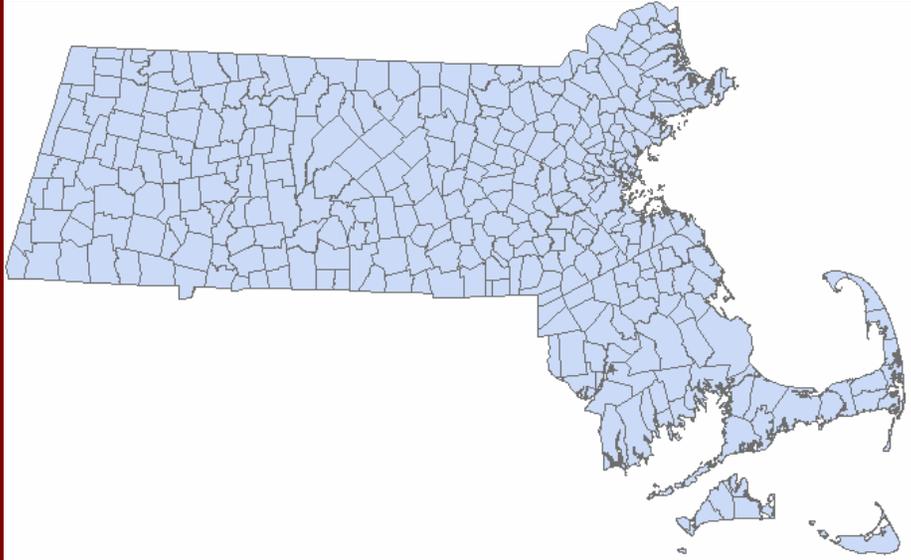
Hypothesis: Orthodox churches will be located in Massachusetts cities that have significant populations of Russian immigrants.

Methodology

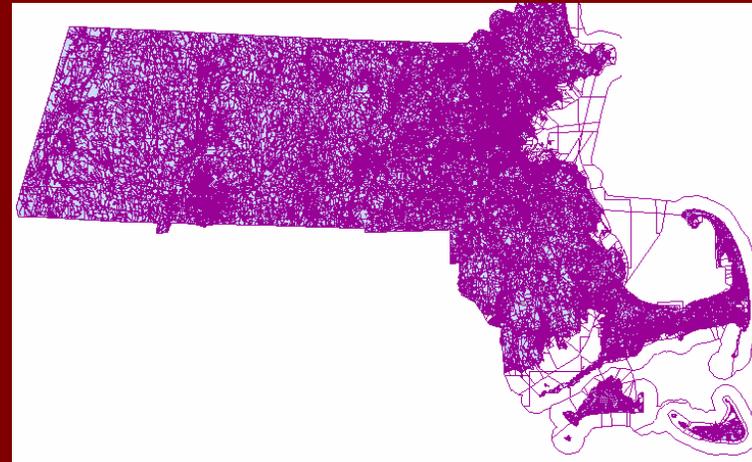
- Acquire layers displaying Massachusetts Geography
- Acquire Immigration Data from US Census
- Obtain Addresses of Orthodox Churches across Massachusetts from Orthodox Church of America
- Geocode church addresses
- Display Immigration Data
- Analyze

Necessary Layers

- Massachusetts Town Boundaries



- Tiger Road Files



Census Immigration Data

- Too Vague: Only breaks immigration down by “Country of Origin” at state or major metropolitan level.
- City data is broken down into general world region (I.e. Europe, Latin America, Africa, etc.)

- New Hypothesis: Russian Orthodox Churches are located in cities with significant numbers of European Immigrants

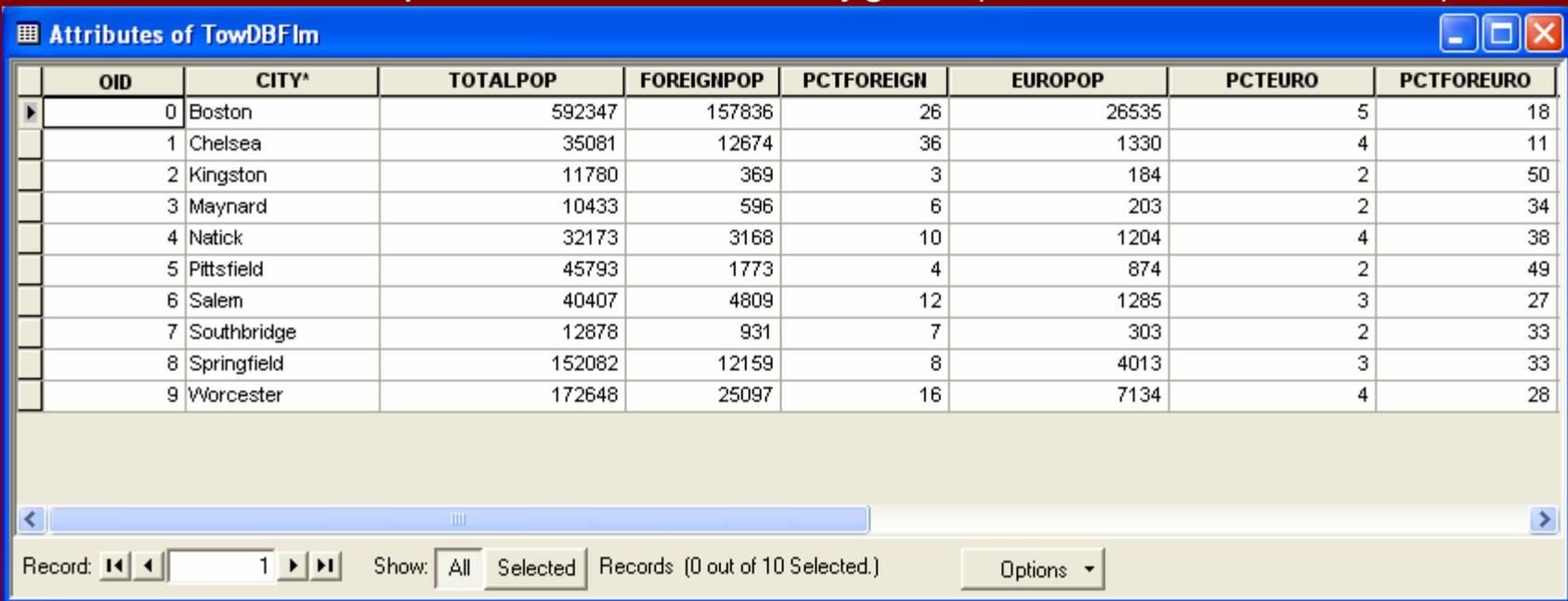
Table FBP-1. Profile of Selected Demographic and Social Characteristics: 2000
 Population Universe: People Born in Europe²
 Geographic Area: UNITED STATES

(For information on confidentiality protection, sampling error, nonsampling error, and definitions, see <http://www.census.gov/prod/cen2000/doc/ip3.pdf>)

Subject	Number	Percent	Subject	Number	Percent
U.S. CITIZENSHIP AND PERIOD OF U.S. ENTRY			SEX AND AGE		
Total population.....	4 915 555	100.0	Total population.....	4 915 555	100.0
Naturalized U.S. citizen.....	2 748 035	55.9	Male.....	2 222 910	45.2
Entered 1990 to 2000.....	291 455	5.9	Female.....	2 692 650	54.8
Entered 1980 to 1989.....	337 695	6.9	Under 5 years.....	50 855	1.0
Entered before 1980.....	2 118 855	43.1	5 to 9 years.....	93 725	1.9
Not a U.S. citizen.....	2 167 520	44.1	10 to 14 years.....	125 955	2.6
Entered 1990 to 2000.....	1 324 325	26.9	15 to 19 years.....	150 155	3.1
Entered 1980 to 1989.....	345 955	7.0	20 to 24 years.....	206 805	4.2
Entered before 1980.....	497 230	10.1	25 to 34 years.....	642 910	13.1
			35 to 44 years.....	708 450	14.4
RACE			45 to 54 years.....	818 745	16.6
One race.....	4 743 825	96.5	55 to 59 years.....	355 205	7.2
White.....	4 629 060	94.2	60 to 64 years.....	376 570	7.7
Black or African American.....	54 340	1.1	65 to 74 years.....	641 800	13.1
American Indian and Alaska Native.....	2 120	0.0	75 to 84 years.....	436 190	8.9
Asian.....	35 575	0.7	85 years and over.....	220 195	4.5
Native Hawaiian and Other Pacific Islander.....	1 145	0.0			
Some other race.....	21 585	0.4	Median age (years).....	50.0	(X)
Two or more races.....	171 735	3.5			
			HISPANIC OR LATINO ORIGIN		
			Hispanic or Latino (of any race).....	68 405	1.4
			Not Hispanic or Latino.....	4 550 450	92.6
			White alone.....	4 550 450	92.6
			LANGUAGE SPOKEN AT HOME		
			Population 5 years and over.....	4 864 700	100.0
			English only.....	1 577 945	32.4
			Language other than English.....	3 287 055	67.6
			Speak English less than "very well".....	1 533 025	31.5
			Spanish.....	112 100	2.3
			Speak English less than "very well".....	48 840	1.0
			Other Indo-European languages.....	3 028 090	62.2
			Speak English less than "very well".....	1 430 410	29.4
			Asian and Pacific Island languages.....	17 250	0.4
			Speak English less than "very well".....	6 575	0.1
			RELATIONSHIP		
			Total population.....	4 915 555	100.0
			In households.....	4 835 300	98.4
			Householder.....	2 355 940	48.1
			Spouse.....	1 485 400	29.8
			Child.....	515 170	10.5
			Own child under 18 years.....	330 620	6.7
			Other relatives.....	235 340	4.8
			Under 18 years.....	14 390	0.3
			Nonrelatives.....	233 760	4.8
			Unmarried partner.....	80 000	1.6
			In group quarters.....	80 250	1.6
			Institutionalized population.....	40 670	0.8
			Noninstitutionalized population.....	39 580	0.8
			GRANDPARENTS AS CAREGIVERS		
			Grandparent living in household with one or more own grandchildren under 18 years.....	111 760	2.3
			Grandparent responsible for grandchildren.....	28 505	0.6
			SCHOOL ENROLLMENT		
			Population 3 years and over.....	674 405	100.0
			enrolled in school.....	17 920	2.7
			Nursery school, preschool.....	17 410	2.6
			Kindergarten.....	187 075	27.7
			Elementary school (grades 1-5).....	136 465	20.2
			High school (grades 9-12).....	315 505	46.8
			College or graduate school.....		

Data Methodology

- Record total population of city, foreign born population, percentage of foreign born residents, number of European Immigrants, percentage of European immigrants in total population, percentage of European immigrants among foreign born population.
- Create Excel chart of these statistics and convert it to DBF IV
- Join DBF table to Town Polygon Layer
- Problems: Multiple fields for Town Polygons (needed to be dissolved)



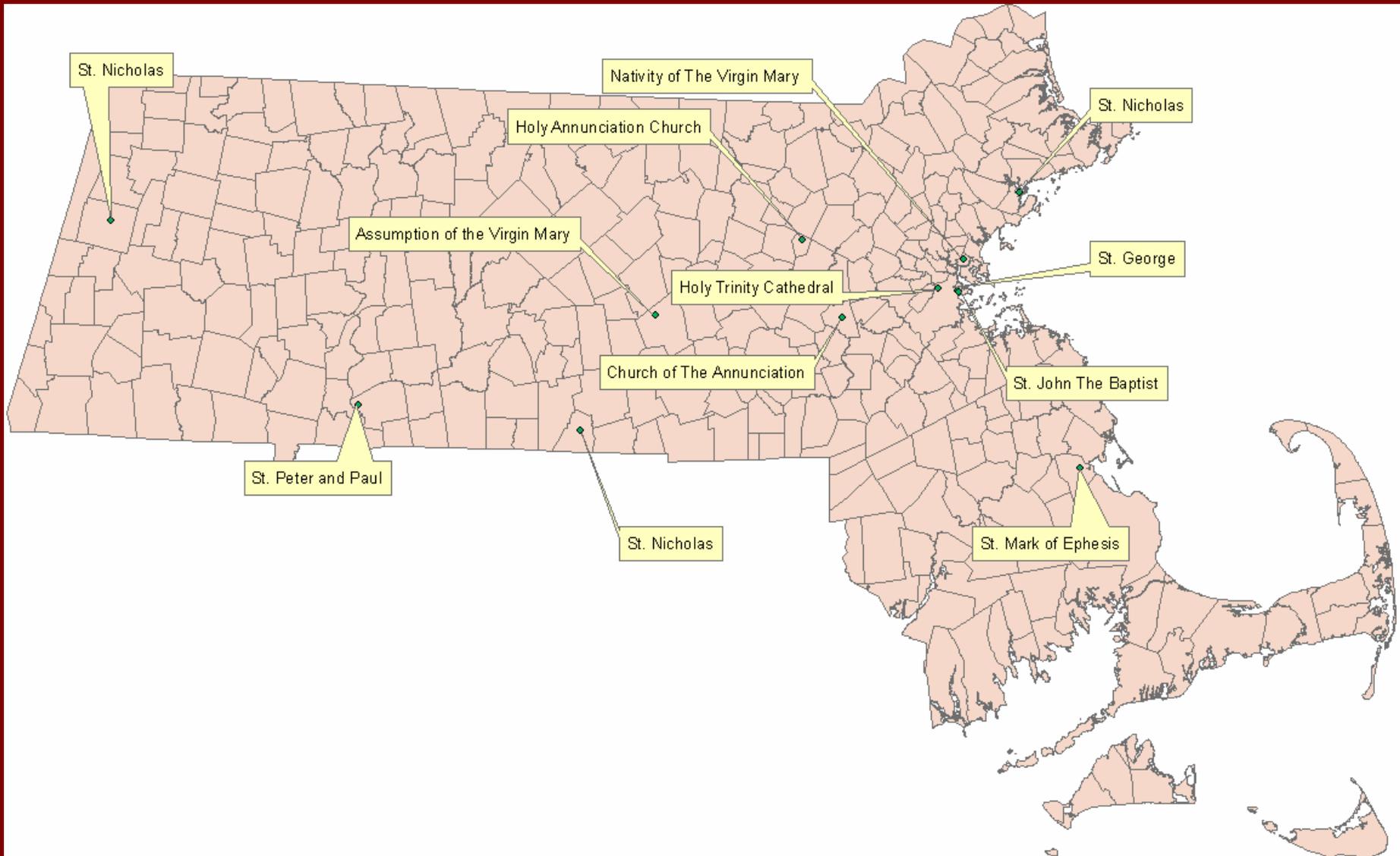
OID	CITY*	TOTALPOP	FOREIGNPOP	PCTFOREIGN	EUROPOP	PCTEURO	PCTFOREURO
0	Boston	592347	157836	26	26535	5	18
1	Chelsea	35081	12674	36	1330	4	11
2	Kingston	11780	369	3	184	2	50
3	Maynard	10433	596	6	203	2	34
4	Natick	32173	3168	10	1204	4	38
5	Pittsfield	45793	1773	4	874	2	49
6	Salem	40407	4809	12	1285	3	27
7	Southbridge	12878	931	7	303	2	33
8	Springfield	152082	12159	8	4013	3	33
9	Worcester	172648	25097	16	7134	4	28

Geocoding

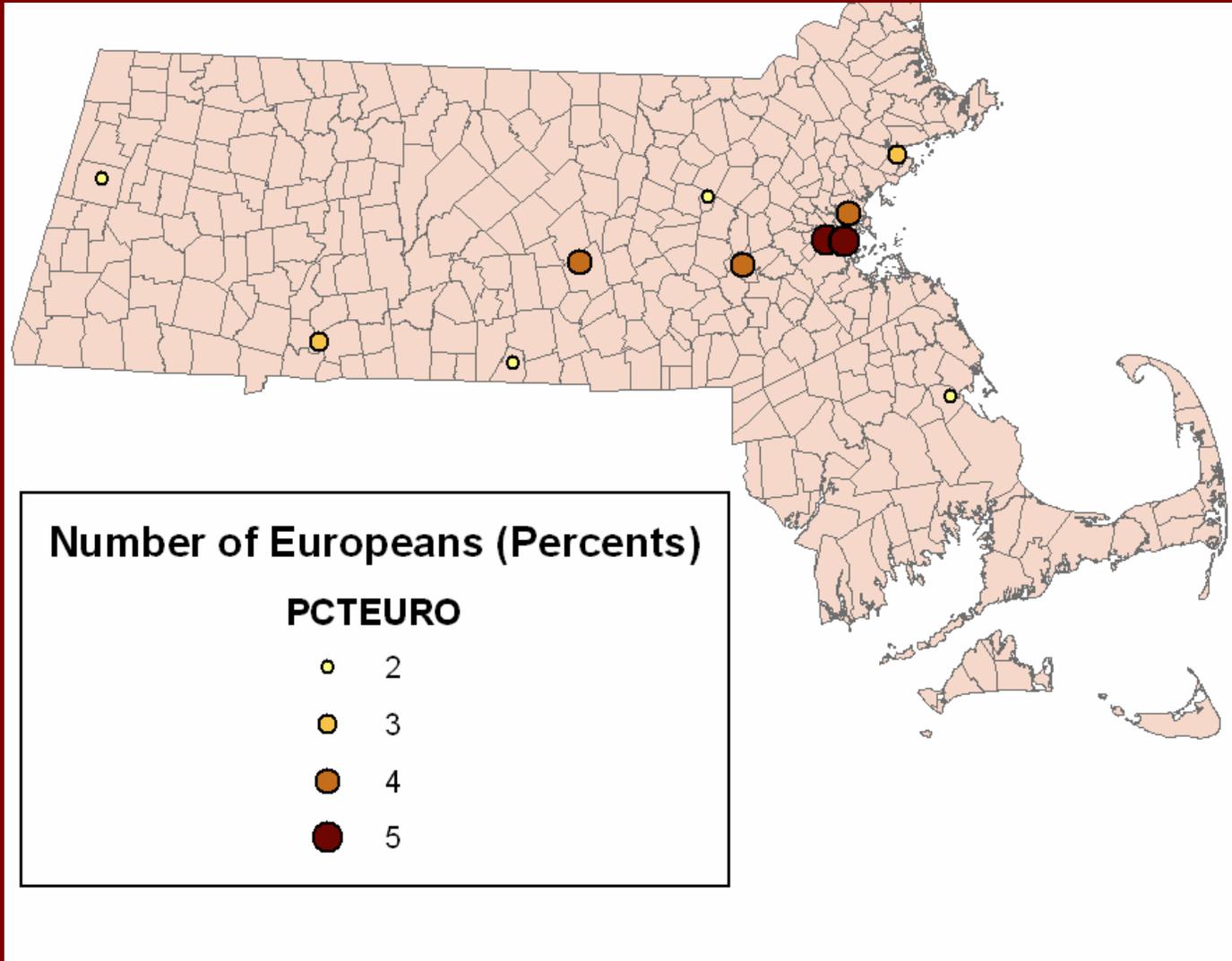
- 14 Russian Orthodox churches located across the state in Boston, Cambridge, Chelsea, Kingston, Maynard, Natick, Pittsfield, Salem, Springfield, Southbridge, West Hyannisport and Worcester
- 2 Churches omitted:
 - Nativity of the Ever Virgin Mary Church in Cambridge (No Address)
 - Our Lady of Kazan in West Hyannisport (No existing polygons or census data for West Hyannisport)

Problem: Capitalized city names in Polygon Towns
(needed to edit the address data table)

Geocoding Results



European Population Compared to Total Population



Results

- Orthodox churches are present in cities where:
 - The total population is greater than 10,000
 - Europeans make up 2 to 5 percent of the population (mean: 3.1 percent)
 - Europeans make up 11 to 50 percent of the foreign born population (mean: 32.1 percent)
 - Results do not support the hypothesis

Conclusion

- Results not significant enough to prove correlation between immigration and location of churches
- Reasons:
 - Data is not specific enough
 - Many church parishioners descended from Russian immigrants

Suggestions for future study:

- Find more geographically specific data
- Analyze historic data/ genealogical data