

Zachary Raslan

Geog:4510, Lab3

1. There are 31 counties named Washington in the USA. Their combined total population in 2010 was 2,551,652 and Washington, Maine has the largest area.
2. N/a
3. The South Atlantic has the greatest number of African Americans with a combined population of 11,026,722.
4. N/a
5. By creating a new field, and populating it with the field calculator ($\text{counties.Pop2010} / \text{counties.Pop1990} * 100$) and searching this new field with a query ($\text{PopulationChange} < 100$), I came up with 1978 counties with decreased in population from 1990 to 2010. PDF included. These counties are predominantly in the northwest and Midwest.
6. N/a
7. States with Democratic Congress members from states with native American or Eskimo populations of more than 100,000 are as follows: Texas, Oklahoma, New Mexico, California and Arizona. There are 54 representatives to contact for these areas.
8. N/a
9. Minnesota has the highest percentage of owner occupied housing units, and DC has the lowest. The percentages range from 68.4%-36.83%

HSE_UNITS	VACANT	OWNER_OC	RENTER_OC	NO_FARMS07	AVG_SIZE07	CROP_ACR07	AVG_SALE07	SQMI	Shape_Length	Shape_Area	Percentage Black	Percent Owner Occupied HSUnit
4234279	448618	2793124	992537	56014	179	7803643	102.71	66245	3571243.07906	141014181909.65076	0.139811	65.9646%
2532319	196013	1669162	667144	60938	242	12716037	135.73	36212	1568130.155437	88633014229.616867	0.078711	65.9144%
844623	108142	553699	182782	23618	157	942132	25.05	24230	1742506.355383	59051467545.838875	0.031069	65.5558%
768594	67313	501547	199734	16700	664	1837904	84.77	84898	1920982.557682	206771569869.74039	0.006213	65.2551%
1161953	115519	756967	289467	41959	273	5530825	116.23	48431	2201541.172171	117299969681.64278	0.344984	65.1461%
5249750	472747	3406337	1370666	63163	124	4870287	91.97	45306	1477131.580939	110383107832.08008	0.097389	64.8857%
527824	58179	339960	129685	25349	454	5918899	224.42	83570	2660920.056388	203002545799.76611	0.003449	64.4078%
1750927	160280	1125397	465250	85260	164	7278098	56.59	40409	1939442.241667	98395778369.480972	0.068210	64.2744%
4783051	337278	3072522	1373251	75861	184	10832772	93.2	43483	1523906.257982	100275853345.4373	0.112133	64.2377%
1963711	226631	1258705	478375	48753	185	3142958	90.57	52420	1751664.532838	127377651150.60138	0.244094	64.0983%
2439443	206538	1561363	671542	79280	138	6047348	33.02	42143	1918537.901962	102982467960.83791	0.146520	64.0049%
1131200	93309	718703	319188	65531	707	28216064	219.94	82278	1902558.094264	200377719793.67508	0.054269	63.5346%
2904192	205019	1837939	861234	47383	171	3274137	61.33	41323	2892002.3554	97178903436.970749	0.174535	63.2857%
4885615	293836	3088884	1502895	76860	348	23707699	173.42	57916	1918985.896622	137087568341.5031	0.143385	63.2241%
1753670	219816	1107617	426237	25967	189	2151219	90.95	32008	1562836.162747	75814596280.5681	0.254899	63.1599%
2442017	247423	1542149	652445	107825	269	16405595	69.68	69703	2193669.749536	170276788439.02393	0.104834	63.1506%
343072	44336	216038	82698	2546	200	432773	425.39	2489	407256.92958	5005657824.844476	0.168582	62.9716%
1385975	84305	869729	431941	4916	83	163686	112.19	5351	513146.294518	12107261562.778923	0.087631	62.7521%
2145283	164424	1341751	639108	12834	160	1405442	142.99	12165	2056613.921274	23728476919.483547	0.257798	62.5442%
722668	56484	449317	216867	47712	953	21486025	324.99	77352	2024239.633145	188154813973.1767	0.037609	62.1747%
3281737	275368	2029154	977215	47846	212	4478168	148.66	59438	1996668.592413	144456155143.17163	0.234625	61.8317%
1808037	149799	1116137	542101	37054	853	11483936	163.58	104093	2031479.556837	253670038872.58588	0.032276	61.7320%
1173043	130347	723535	319161	49346	281	8432221	152.17	53179	1999413.178565	129702602625.21147	0.143299	61.6802%
3523944	391931	2172355	959688	52913	160	4895204	194.92	52985	3246514.055178	120068309458.50877	0.181903	61.6456%
2321144	236600	1426361	658183	78463	194	10116279	114.29	59822	1968991.898647	136605543718.91325	0.053027	61.4508%
323208	32963	197940	92305	31169	1401	19094311	210.8	77115	1943874.461489	187970170557.9104	0.005663	61.2423%
1847181	191128	1125135	530918	30106	269	4691344	86.96	51842	3221736.684353	113410485537.72101	0.322129	60.9109%
7302947	965018	4441799	1896130	47463	195	2593340	164.03	65755	4166529.845489	139209594505.39166	0.122457	60.8220%
780579	102608	474445	203526	20930	2066	2334018	103.92	121590	2318688.102183	298802997132.96881	0.016511	60.7812%
3310275	245630	2011473	1053172	10327	71	488697	95.56	8560	794945.324925	18274979755.611492	0.129423	60.7645%
1514400	172107	918259	424034	86565	405	13007625	67.07	69900	2405284.612311	171367552060.52393	0.070148	60.6352%
223854	30246	135514	58094	11069	2726	2576017	104.58	97813	1960001.117683	238004182792.70502	0.006790	60.5368%
547024	72418	330700	143906	4166	113	128938	47.78	9350	807197.501454	22535908031.867413	0.006794	60.4544%
412633	53966	247723	110944	29524	2079	18241710	94.94	147038	2859079.25462	359662219199.14996	0.002736	60.0347%
2451075	179677	1467009	804389	39284	381	7609210	172.92	71297	3004175.271127	164442294973.63803	0.028162	59.8517%
289677	32525	171299	85853	31970	1241	27527180	190.31	70698	1753454.389709	173072083062.00912	0.005914	59.1345%
2189189	287862	1293556	607771	15637	1670	1205425	206.85	113998	2272954.252069	279144037396.76245	0.023630	59.0884%
1452709	118986	856951	476772	38553	425	5010408	113.77	98381	2188607.421468	236318582005.96017	0.014398	58.9899%
8157575	764221	4716959	2676395	247437	527	33667177	84.87	268587	6549114.114078	653903365663.0498	0.095159	57.8231%
294382	53748	169784	70850	6984	177	516924	96.47	9614	786161.04899	23377188011.350998	0.004892	57.6747%
2621989	178409	1508052	935528	7691	67	187406	63.69	10206	1153921.36759	19882152962.070587	0.052390	57.5156%
651901	133701	370905	147295	8136	166	529253	75.86	39555	1804888.037317	78384785713.456955	0.005050	56.8959%
439837	31413	245156	163268	1219	56	24457	54.07	1515	355143.546189	2542014418.635777	0.044319	55.7379%
827457	76292	457247	293918	3131	1873	753718	163.93	110559	2290002.233478	269647252505.02927	0.049295	55.2593%
12214549	711679	6546334	4956536	81033	313	9464647	418.16	163890	4057591.980058	385551754269.599	0.059601	53.5946%
260978	39378	138509	83091	686	1285	86238	83.12	678470	29343337.574026	1562579104106.7354	0.031314	53.0731%
460542	57302	227888	175352	7521	149	177626	68.29	10931	1275835.797456	16513003105.792114	0.016802	49.4826%
7679307	622447	3739166	3317694	36352	197	4314954	121.55	51752	2498285.647983	118166382066.82471	0.154238	48.6915%
274845	26507	101214	147124	-99	-99	-99	-99	68	60446.148699	160961103.423702	0.571547	36.8258%

PDF of map for question9 attached

Challenge Question

- The projected gross income of the state of Texas \$5,369,007.
- Although there aren't any large clusters, Travis, Texas places in the 5th and highest class for income, and is also surrounded by a 4th class and third class county.
- PDF attached.

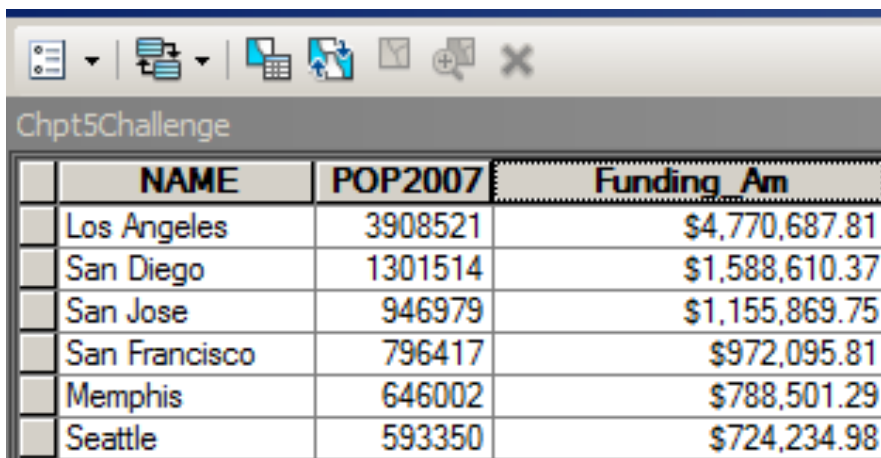
Chpt. 5

1. N/a
2. N/a
3. The three largest cities that fit the criteria of question three are Livonia, MI; Spring Hill, FL; Surprise, AZ.
4. N/a

5. There are six counties that both contain the capital and have a population of over 1,000,000 people. The states these counties are in, include: Utah, Ohio, California, Georgia, Arizona and Texas.
6. N/a
7. There are 57 volcanos within 300 miles from Crater Lake, Oregon. Of these 57, there are 20 volcanos within 50 miles of an interstate highway.
8. N/a
9. There are 18 capitals that are more than 50 miles from a river. Indianapolis, IN is has the highest population.

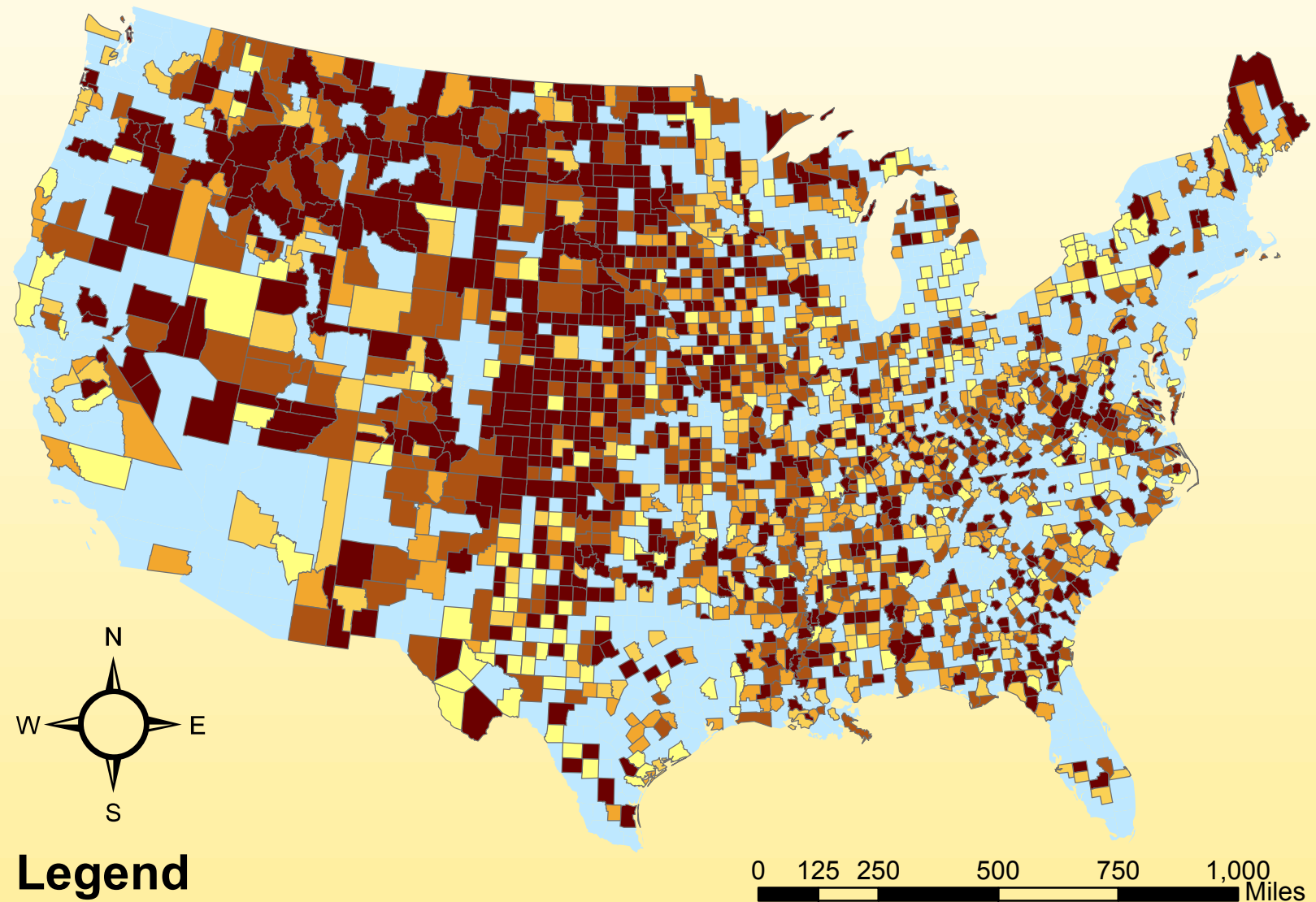
Challenge Problem:

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	NAME	POP2007	Funding_Am
	Los Angeles	3908521	\$4,770,687.81
	San Diego	1301514	\$1,588,610.37
	San Jose	946979	\$1,155,869.75
	San Francisco	796417	\$972,095.81
	Memphis	646002	\$788,501.29
	Seattle	593350	\$724,234.98

United States Counties, by Population Decrease from 1990-2010



Legend

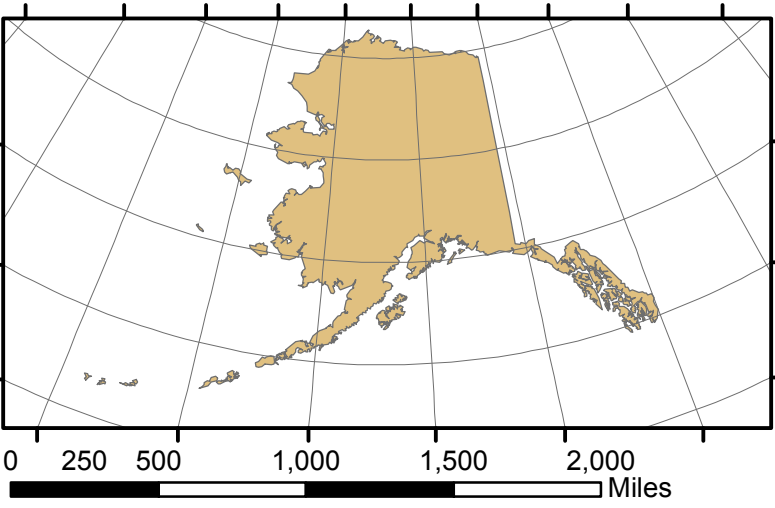
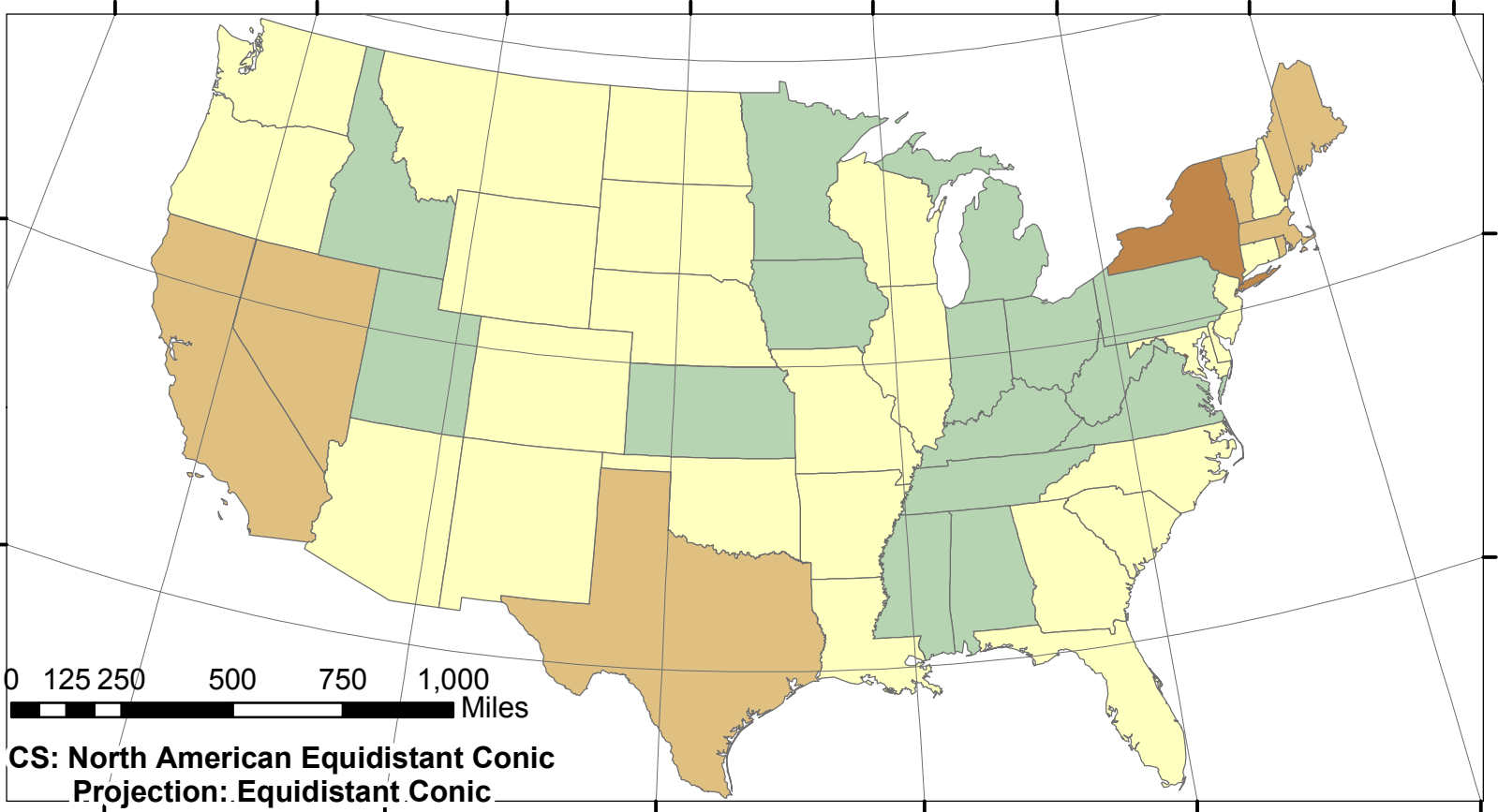
Percentage of Retained Population from 1990 to 2010, by County

75.59% - 99.95%
49.95% - 75.58%
29.76% - 49.94%
13.12% - 29.75%
0.11% - 13.11%
Growing Areas

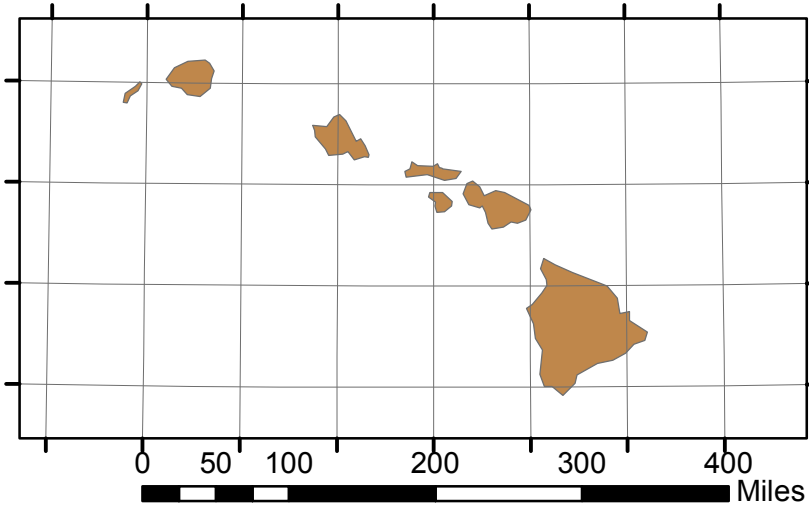
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Question5

CS: North American Equidistant Conic
Projection: Equidistant Conic

Map of United States, by Percentage of Housing Units Occupied by Owner



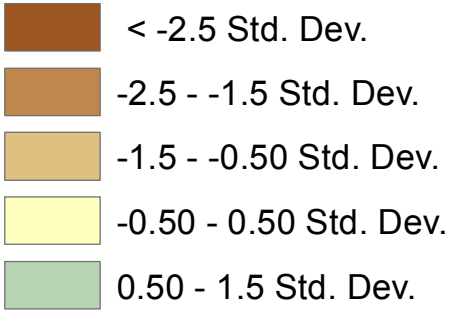
CS: Hawaii Albers Equal Area Conic
Projection: Albers Equal Area Conic



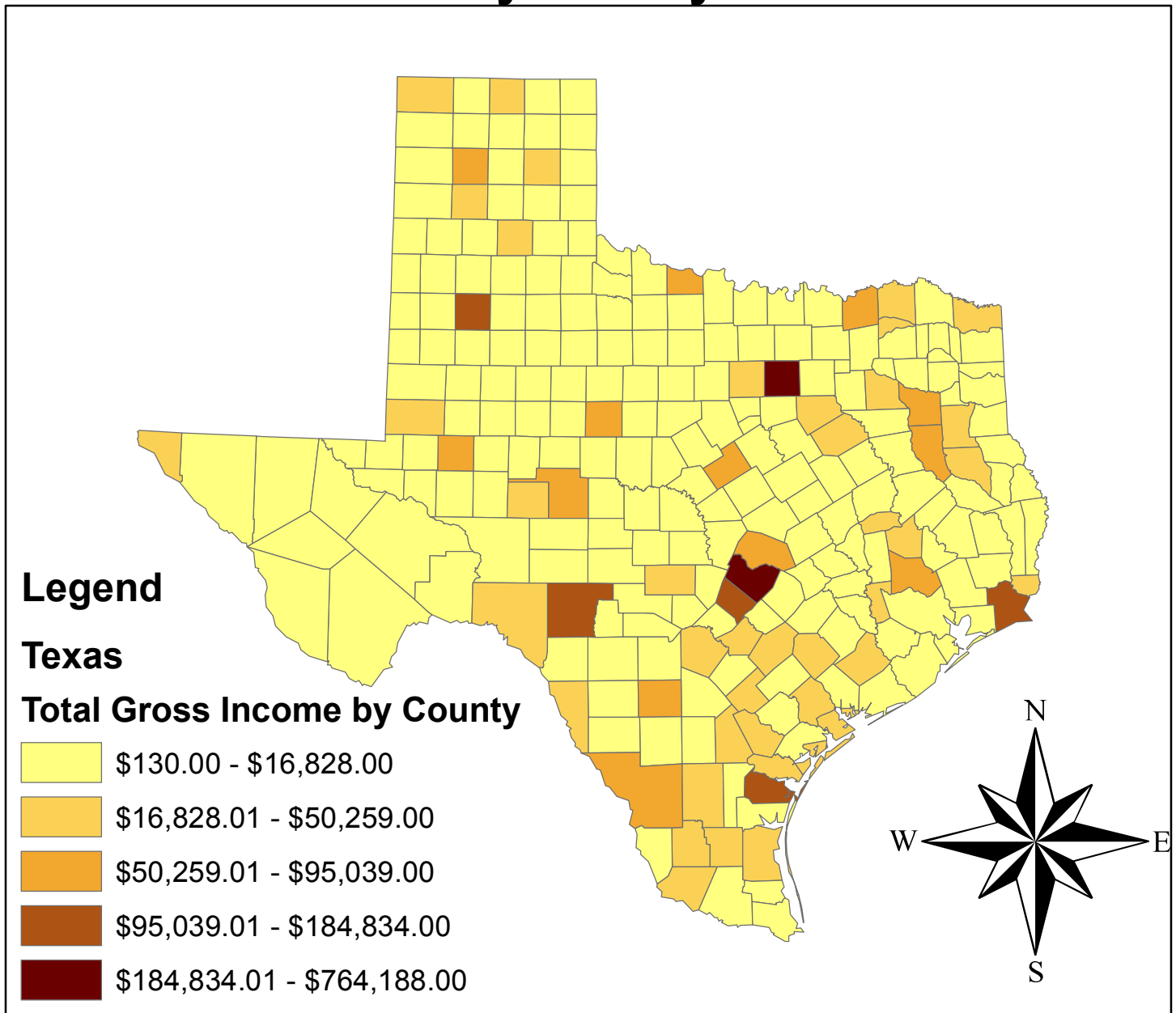
CS: Alaska Equal Area Conic
Projection: Albers Equal Area Conic

Legend

Percent Owner Occupied Housing Units



Dating Service Co. Projected Gross Income in Texas, by County



0 50 100 200 300 400
Miles

CS: NAD 1983 NSRS2007 Texas Centric Mapping System
Projection: Albers

Zachary Raslan
Geog:4510
Challenge Problem, Chp 4