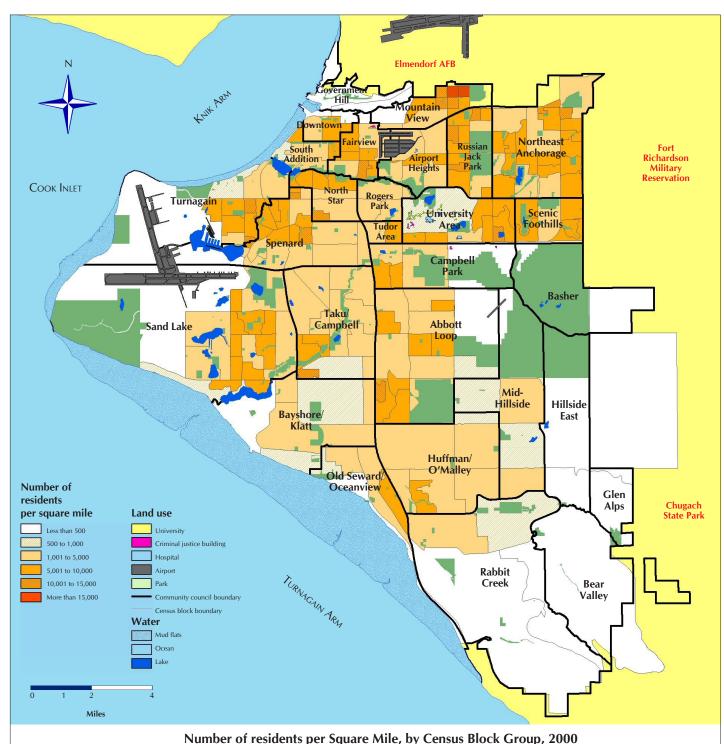
## **ANCHORAGE COMMUNITY INDICATORS**



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## The Strength of Association: **Population Density and Social Deviance**

In response to current public policy discussions in Anchorage, a previous density, these problems are overcome. issue Anchorage Community Indicators (3A:1, July 2004) explored the As with the previous ACI analysis, simple bivariate correlations were relationship between *housing density* within Anchorage neighborhoods and calculated. The results are presented in the accompanying table. Once again, we find no evidence—at the bivariate level—that social density of Anchorage neighborhoods is associated with community-level

the annual rate of *social deviance* using six measures of police activity. The basic theoretical model examined previously holds that *social density* is positively correlated with social deviance. Stated in simple and somewhat rates of social deviance. Looking across the first row of the table, all of the overly-deterministic terms, the model states increases in social density correlation coefficients reported approach zero ("strong" correlations produce corresponding increases in levels of social deviance, represented approach -1 or +1) and are not statistically significant; also, it is notable that schematically by the following two-variable model: to the extent any association was detected, it was in the opposite direction of what would be expected given an assumption of a social density  $\rightarrow$  social Social density  $\rightarrow$  Social deviance deviance relationship.

does not appear to be associated with community-level rates of deviance, Empirically, social density was measured in this prior analysis using a single indicator, housing density, derived from 2000 census data; social these data do suggest that various forms of legally prohibited behaviors are deviance was measured indirectly using six indicators of formal state highly inter-correlated. That is to say "problem behaviors" tend to cluster response to legally prohibited behaviors (i.e., "crimes"), specifically in the together within communities; where you find one form, you tend to find form of police response (i.e., "calls-for-service"). The bivariate analysis others as well. presented previously in Anchorage Community Indicators found no evidence of a relationship between housing density and deviance. This finding

The analyses presented here are preliminary and intended to be suggestive was contrary to conventional (though not criminological) wisdom. rather than conclusive. Readers should be cautious in drawing conclusions The current issue builds on these previously reported findings by based on this (very) limited empirical "test." As data continues to accumulate introducing a second measure of social density: population density. and more becomes known about the social structure of Anchorage Population density refers to the number of people residing within a bounded neighborhoods, Anchorage Community Indicators will examine geographical space. As before, the geographical spaces used in this analysis neighborhood levels social deviance much more closely, using more complex are U.S. Census *block groups*. Population density was measured as the analytical methods. number of residents per square mile residing within each of the 188 block groups within the municipality.

These maps and the accompanying data are available on the Justice Center website (www.uaa.alaska.edu/just). Additional technical information about the data can be obtained by phone Population density is thought to be a better measure of social density at 786-4885 than housing density because it

solves some difficult problems. The first issue is that although housing density is a direct measure of housing units within a given geographical space, it is only a proxy for the amount of people who reside there. Second, and perhaps more significant, is that in areas with moderate to high housing unit vacancy rates or where housing units contain a large number of people, the actual number of people within a particular geography may be drastically over-estimated (high housing unit vacancy) or underestimated (large household size). Fortunately, by using population density as a measure of social

	Co	orrelation <i>N</i>	latrix: Pop	ulation Den	sity—Socia	l Deviance		
N in all cells = $188$ block groups								
		-	Social deviance measures					
		Population density	Domestic violence	Weapons offense	Drug offense	Alcohol offense	Serious property crime	Serious violent crime
Social deviance measures	Population density	1.000	001	.040	041	090	081	035
	Domestic violence	_	1.000	.521 *	.574 *	.577 *	.595 *	.627 *
	Weapons offense	_	_	1.000	.750 *	.684 *	.777 *	.813 *
	Drug offense	_	_	_	1.000	.853 *	.858 *	.875 *
	Alcohol offense	_	_	_	_	1.000	.924 *	.939 *
	Serious property crime	_	_	_	_	-	1.000 *	.930 *
	Serious violent crime	_	—	_	_	_	-	1.000
				* <i>p</i> < .01				

Also in line with previous analyses, we find that while social density

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