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Title:

"Inequality of Incomes and of Alcohol Consumption in the U.S.

Author(s):

Timothy Mathews, Professor of Economics at Kennesaw State University & Director of the Bagwell Center for the Study of Markets and Economic Opportun In recent years manipoliticians academics, and policy analysts have paid increasing attention to income and wealth inequality. The most common way that economists measure such differences is by first constructing a Lorenz Curve and themputing the value of a Gini Coefficient. For example, thinking about the distribution of incomes, we could conceptually order everyone in society from lowest income to highest income. Themsing on an arbitrary percentage office individuals with lowest incomes, we could determine the percentage of total societal income earnedly these people. Acording to U.S. Census Bureau data, in 2015 the 20% of households with lowest incomes in the U.S. collectively earned 3.1% of all income earned by all U.S. households. This observation gives us one point on the bl. Societation comes are curve. Repeating this exercise for all segments of the population (from the 1% of households with lowest incomes to the 99% of households with lowest incomes) incomes to the 99% of households with lowest incomes) incomes are discompanying figure which was constructed based upon U.S. Census Bureau data.

With fraction of totalpopulation on the horizontal axis and fraction of total total vertical axis, the Lorenz Curve must statistic veral matematical properties. It must pass through the points (0,0) and (1,1); it must be upward sloping; it must get steeper as we move up the curve; and (so long as there are any differences in incomes) it must lie below the "45 degree line." Thi final observation can be understood by recognizing that the Lorenz Curve would exactly coincide with the "45 degree line" or "Line of Perfect Equalityonly everyone had the same exact income. At the other extreme, if only one person had any income (example) one else in society had zero income), then the Lorenz Curve would be a "reversepassing through the points (0,0), (1,0), and (1,1).

This visual summary of the distribution of income can be reduced single summary measure called the Gini Cotietent. As can be seen fronthe figure, there is a lenshaped area between the Lorenz Curve and "Line of Perfect Equality Gini Cotticient is defined as twice the value of this enshaped area. Numericatly Gini Coefficient can range from a low of zero (if there are no differences impointed, so that he Lorenz Curve coincides with the "Line of Perfect Equality" and the lenshaped area vanishes a high of one (if one person estall the income, so that he Lorenz Curve is a "reverse and the lens haped area encompasses the entire triangle below the "Line of Perfect Equality"). A height alued Gini Coefficient reveals greaterine quality.

The World Bank estimate the value of the Gini Coeffect for incomes in the U.S. to be .42 in 2016. This issigher than the values of .41 realized in 2004, .38 realized in 1991, and .35 realized in 197,9consistent with a narrative of increasing inequality eigent decades. he U.S.'s value is higher than most her OECD countries in recent year, ssuch a Canada (.34 in 2013), France (.33 in 2015) the United Kingdom (.33 in 201,5) apan (.32 in 2008) Germany (.32 in 201), Sweden (.29 in 20), 5and L90>2p()]TJ.34,6.1 (eW)-3 (()-4 (.8-2 (32 i)8 (n)-3 (2015)]TJ88 Tw 0.3

value of the Gini Coefficient in the U.S. has increased in recent decades and (ii) that the value of the Gini Coefficient in the U.S. is

incorrectly perceiving inequality of a magnitude that is not at **allhim** with what we should truly aim to gauge. This is not to say that observations on income inequality are never useful or