Economic Downturns and Crime

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Summary

The United States is currently recovering from a broad recession that some believe will also be considered the longest-lasting economic downturn since the Great Depression. Various indicators of economic health, such as the unemployment rate and foreclosures, reached their worst showings in decades over the past few months. The troubled state of the economy has revived the long-standing debate concerning whether economic factors can be linked to increases in the nation's crime rates. This report examines the available research on how selected economic variables may or may not be related to crime rates.

There are multiple macroeconomic indicators, such as the consumer price index or real earnings, that can serve as estimates of economic strength. Specifically, during the current economic downturn, some reference the unemployment rate and the proportion of home foreclosures as proxies for economic health. Therefore, most of the discussion in this report utilizes unemployment and foreclosure data in discussing the relationship between the economy and crime.

A number of studies have analyzed the link between the unemployment rate and crime rates (with a greater focus on property crime), some theorizing that in times of economic turmoil, people may turn to illicit rather than licit means of income. However, a review by CRS found a lack of consensus concerning whether the unemployment rate has any correlation with the property crime rate. A number of studies analyzed by CRS that did find a correlation between the unemployment rate and the property crime rate generally examined time periods during which the unemployment and property crime rates moved in tandem. Conversely, some studies that used longer time-horizons tended to find no direct link between the unemployment rate and the property crime rate.

The link between foreclosures and crime rates has not been reviewed as comprehensively by social scientists as other broader macroeconomic variables—namely, unemployment. Most of the literature in the field focuses on whether abandoned houses can be linked to increases in crime rather than looking at the particular role that foreclosures may play. The literature reviewed suggests that there is some correlation between abandoned houses and the property crime rate (but not, however, the violent crime rate). With respect to the relationship between foreclosures and crime rates, some of the studies found that foreclosures did have an impact on the violent crime rate (but not the property crime rate). However, the limited number of studies examining the relationship between foreclosure rates and crime rates complicates any attempt to draw firm conclusions.

While much research on the relationship between economic variables and crime rates has focused on macroeconomic variables such as unemployment and home foreclosures, some research suggests that other economic variables, such as gross domestic product (GDP) or gross state product (GSP), as well as consumer sentiment, could fluctuate more closely with crime rates and could thus serve as better proxies for evaluating the relationship between the economy and crime.

Policy makers continue to be concerned with potential impacts—such as increased crime—that the economic climate may have on the nation. As a result, some have suggested that focus should be placed on increasing the resources of state and local police departments (i.e., increasing the number of police officers). In addressing this concern, however, Congress may opt to consider whether the most recent downturn in the economy is in fact related to crime rates. This report will be updated as needed.
# Contents

Introduction ................................................................................................................... 1  
Crime Rates During Recessions ................................................................................... 2  
  Research on Crime Rates and Recessions ................................................................. 4  
Impact of Unemployment on Crime ............................................................................ 5  
  Theories .................................................................................................................. 5  
  Overview of the Literature ...................................................................................... 6  
  Factors Affecting Conclusions About the Unemployment-Crime Relationship ....... 7  
Home Foreclosures and Crime Rates .......................................................................... 9  
  Theories .................................................................................................................. 9  
  Overview of the Literature ...................................................................................... 10  
Other Economic Indicators ......................................................................................... 11  
  Gross Domestic Product (GDP)/Gross State Product (GSP) .................................... 12  
  Consumer Sentiment ............................................................................................. 12  
Issues for Congress ...................................................................................................... 13  
  Current Economic Downturn Relationship to Crime Rates .................................... 14  
  Relationship of Number of Law Enforcement Officers and Crime Rates ............... 14  

# Figures

Figure 1. Violent Crime Rate and Recessions ............................................................... 3  
Figure 2. Property Crime Rate and Recessions ......................................................... 4  

# Contacts

Author Contact Information ....................................................................................... 15  
Acknowledgments ..................................................................................................... 15
Introduction

The United States is currently recovering from a broad recession that some believe will also be considered the longest-lasting economic downturn since the Great Depression. The National Bureau of Economic Research (NBER) determined that the recession officially began in December 2007 but has not announced an official end date of the recession. Various indicators of economic strength, such as the unemployment rate and foreclosures, reached their worst showings in decades over the past few months. While some newspapers across the country have been publishing stories linking the economic downturn with localized increases in crime, others have reported decreases in crime. The troubled state of the economy has sparked debate concerning whether economic factors can affect crime.

Any increase in crime rates during a period of economic uncertainty could exacerbate an already difficult situation for communities across the United States. Congress has recently voiced concern over this issue, with the Senate Committee on the Judiciary holding a hearing on January 8, 2009, concerning the need to increase funding for federal programs that provide support for state and local law enforcement agencies. Congress responded by passing legislation that authorized over $3 billion in funding for law enforcement assistance. Advocates of increasing funding for state and local law enforcement assistance believe that additional funding is needed for a number of reasons, including that crime rates tend to increase during periods of economic uncertainty and that state law enforcement agencies are facing budget cuts and may be forced to stop hiring new officers or filling vacated positions. Opponents of this funding argue that there is no documented link between economic downturns and increases in crime rates, and that the federal grant programs in question are inefficient.
This report examines the relationships between selected variables of economic strength and crime. It begins with an overview of crime rates during times of economic recession in the United States. It then reviews the existing literature in the field analyzing various data sets that examine whether the unemployment rate and foreclosures can be related to increases in the national crime rate. This report focuses primarily on national-level data rather than on state- or local-level data. Because of the aggregation of national-level data, local trends may be lost. Therefore, this report presents a picture of the relationship between crime and economic indicators for the nation as a whole, but it does not discuss these relationships that may exist at the state or local level. Further, conclusions drawn about the relationship between national crime rates and economic variables may not be generalizable to the relationship between the economy and crime in all states and localities around the country. In essence, there may exist a relationship between the economy and crime in specific areas of the country, even if this relationship is not visible at the national level.

The report also considers other economic indicators that may warrant further research with respect to their relationship with crime. Lastly, the report raises several issues that Congress may debate should it consider the relationship between the current economic downturn and crime, including whether increases in crime rates are related to periods of economic turmoil and whether hiring additional police officers can reduce crime.

**Crime Rates During Recessions**

According to NBER, “[a] recession is a significant decline in economic activity spread across the economy, lasting more than a few months, normally visible in production, employment, real income, and other indicators. A recession begins when the economy reaches a peak of activity and ends when the economy reaches its trough.” NBER has identified six recessions in the United States since 1960. 

**Figure 1** and **Figure 2** illustrate the violent and property crime rates, respectively, from 1960 through 2008. Both figures identify each of the six previous recessions identified by NBER. In...
general, property crime rates increased fairly steadily from the early 1960s through the mid-1980s and violent crime rates continued to increase through the early 1990s. Both property crime and violent crime rates have generally been decreasing since the early 1990s. **Figure 1** and **Figure 2** show that, since 1960, there has been no consistent relationship between periods of economic recession and the crime rates. While the violent crime and property crime rates did increase during some recessions (generally in the 1970s), during others they either remained relatively stable or actually decreased.

**Figure 1. Violent Crime Rate and Recessions**

1960-2008

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**Source:** CRS presentation of the FBI’s Uniform Crime Report (UCR) data as well as National Bureau of Economic Research (NBER) data.

**Notes:** Official UCR data is not yet available for 2009. Preliminary 2009 data can be found at http://www.fbi.gov/ucr/ucr.htm.

(...continued)

analyses to assess the relationship between crime rates (as reported by the Federal Bureau of Investigation’s Uniform Crime Report) and periods of economic recession (as identified by the National Bureau of Economic Research).
Research on Crime Rates and Recessions

CRS was unable to find any literature examining potential links between recessions in the United States and crime rates. Instead, the literature in the field tends to focus on the impact that macroeconomic trends have on crime rates. With a recession defined as “a significant decline in economic activity spread across the economy,” this leaves open the possibility that any number or combination of economic variables may be affected in a recession. It also suggests that no two recessions may be the same, and thus some economic variables may be at greater flux during some recessions than during others. This poses challenges in analyzing the relationship between recessions—in general—and crime. Consequently, researchers tend to use individual economic indicators, such as the unemployment rate, as a proxy for the state of the economy. However, any given indicator may not be generalizable to the state of the economy as a whole during any one given recession or across recessions.¹⁵

Despite the limitations in using specific economic variables as proxies for a complex economic state, this methodology does allow researchers to isolate variables and analyze their individual effects. Specifically, during the current economic downturn, many have referred to the

¹⁵ Generalizability is typically defined as the extent to which the results generated by a variable being studied can be applied to other settings, times, or groups of subjects and be expected to deliver a similar outcome.
unemployment rate and the proportion of home foreclosures as proxies for economic health. The following sections will examine these particular economic indicators in order to see whether they can be linked to increases in the crime rates.

Impact of Unemployment on Crime

The unemployment rate is one of the most widely referenced economic indicators. In discussions of potential impacts of the economy on crime rates, many scholars and policy makers use the unemployment rate as a proxy for economic strength. Congress has shown interest in the relationship between the economy—unemployment, in particular—and crime rates since the 1970s.\(^{16}\) The current recession, which has been accompanied by a rise in the unemployment rate, has once again focused attention on the relationship between unemployment and crime rates. In fact, according to the Bureau of Labor Statistics, “[s]ince the start of the recession in December 2007, the number of unemployed persons has grown by 3.6 million, and the unemployment rate has risen by 2.3 percentage points,” to 7.2% in December 2008.\(^{17}\) The unemployment rate has continued to increase, and reached 10.1% in October 2009 before it decreased to 10.0% in November and December 2009. That rate represents the highest level of unemployment in the United States since the early 1980s.\(^ {18}\)

Theories

Researchers and scholars have several theories concerning the relationship between unemployment and crime. One of these theories, the economic theory of crime, assumes that people make rational choices between legitimate activities and criminal activities as a source of economic gain.\(^ {19}\) More specifically, the comparison is between the economic benefit of legitimate work versus that of violent or property crime, after accounting for crime-related costs such as incarceration. Although the theory was originally formulated with an application to all crimes, many researchers have used it in discussions of unemployment and property crime. This theory predicts a positive correlation between unemployment and property crime; in other words, that increases in the unemployment rate will be correlated with increases in property crime rates. The reason for this positive correlation, according to the economic model, is that during periods when there are fewer opportunities for legitimate income, people may turn to illegal activities, while when more jobs are available, the risks of committing a crime may be weighed against the opportunity for legitimate work.

A second theory factors both the motivation to commit crimes as well as the opportunities available to commit crimes.\(^ {20}\) On one hand, this theory concurs with the economic theory of crime


in predicting that the unemployment rate may be positively correlated with the crime rates because of increased criminal motivation (with potential benefits of legitimate work weighed against potential costs of crime). However, the theory simultaneously predicts that unemployment may be negatively correlated with the property crime rate, because during periods of increasing unemployment, there may be decreased criminal opportunities for reasons including that potential targets/victims may also be unemployed and thus better able to guard their property. Similarly, the theory predicts that unemployment may be negatively correlated with the violent crime rate using two assumptions: (1) during periods of unemployment, individuals may have more time to spend in situations (i.e. home and neighborhood) where people may be more close-knit, and (2) violent crimes more often involve casual acquaintances or strangers rather than individuals with close relations (based on Department of Justice and Uniform Crime Report data). If unemployment had an equal effect on increasing criminal motivation and decreasing criminal opportunity, this theory would predict no correlation between unemployment and crime rates. If the effects on increased motivation were stronger than the effects on decreased opportunity, this theory would predict (as does the economic model of crime) a positive correlation between unemployment and the property crime rate.

Overview of the Literature

A number of studies analyzing the relationship between unemployment and crime rates tend to find small statistically significant correlations between unemployment and the property crime rate but not between unemployment and the violent crime rate. During congressional hearings on unemployment and crime in 1979 and 1981, Congress heard testimony that there is a positive, but generally insignificant, relationship between unemployment and crime rates, and that this relationship holds true more often for the property crime rate than for the violent crime rate. 

A review of the literature found large disparities in the magnitude of the correlation between unemployment and the property crime rate. Some researchers found a small relationship (unemployment accounts for about 2% of the change in the property crime rate); other researchers found a large relationship (unemployment may account for up to 40% of the change in the property crime rate), while still others found no relationship.

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21 Ibid., p. 320.


24 Steven Raphael and Rudolf Winter-Ebmer, “Identifying the effect of unemployment on crime,” Journal of Law and Economics, vol. XLIV (April 2001), pp. 259-283. The Government Accountability Office cites this research in their report linking poverty with crime. See U.S. Government Accountability Office, Poverty in America: Economic Research Shows Adverse Impacts on Health Status and Other Social Conditions as well as the Economic Growth Rate, GAO-07-344, January 2007, p. 16, http://www.gao.gov/new.items/d07344.pdf. Steven Raphael and Rudolf Winter-Ebmer evaluated the relationship between state unemployment rates and state property crime rates for the time period from 1971 through 1997. In their analysis, Raphael and Winter-Ebmer controlled for several variables, including alcohol consumption per capita, average income, race, age, poverty, city size, incarceration rate, and military spending. Similar to Steven Levitt’s results, they found that a one percentage point decrease in the unemployment rate was associated with a 1.6%-2.3% decrease in the property crime rate. Constraining their analysis to the time period between 1992-1997, they found that a one percentage point decrease in the unemployment rate may have been associated with (continued...)
Steven Levitt examined empirical studies on the relationship between unemployment and the property crime rate between 1973 and 2001. Assimilating the findings across five studies including his own research, Levitt concluded that controlling for other factors, almost all of these studies report a statistically significant but substantively small relationship between unemployment rates and property crime. A typical estimate would be that a one percentage point increase in the unemployment rate is associated with about a one percent increase in property crime.\(^{25}\)

Levitt estimated that changes in the economy (unemployment) accounted for only about 2\% of the changes in the property crime rate between 1991 and 2001. He argued that most of the decline in the property crime rate during the 1990s can be attributed to non-economic factors (increases in the number of police, increases in the prison population, the receding crack epidemic, and increases in abortion\(^{26}\)) rather than the declining unemployment rate.\(^{27}\)

**Factors Affecting Conclusions About the Unemployment-Crime Relationship**

In reviewing the literature examining the relationship between unemployment and the property crime rate, CRS identified several issues that may affect policy makers’ abilities to draw conclusions about the true relationship between unemployment (as a proxy for economic strength) and crime. For one, the effects of the unemployment rate on the property crime rate may better explain property crime trends during some time periods than during others. For example, Theodore Chiricos reviewed 63 studies, some of which evaluated the unemployment-crime relationship between 1960 and 1970, and some of which evaluated this relationship after 1970.\(^{28}\) Although the 1960s saw a decrease in unemployment and the 1970s saw an increase in unemployment, both decades witnessed a general increase in the property crime rate. Consequently, Chiricos’s research suggests an “inconsistent” relationship between unemployment and property crime rates during the 1960s and a positive relationship during the 1970s.\(^{29}\) Eric Gould and his colleagues evaluated the relationship between unemployment and the property crime rate between 1979 and 1997, and similarly found that the significance of the relationship was dependent on the time period.\(^{30}\) They found a strong, short-term correlation for the years up to a 5\% decrease in the property crime rate; Raphael and Winter-Ember thus attribute 40\% of the overall decline in the property crime rate between 1992 and 1997 to a drop in unemployment. These findings indicate that the conclusions drawn about the effects of unemployment on the property crime rate may be time-period-sensitive.


\(^{26}\) Levitt based the claim that abortion was a factor contributing to the declining crime rate in the 1990s on two assumptions: (1) unwanted children are at a greater risk for crime, and (2) legalized abortion led to a decrease in the number of unwanted births and thus a decrease in the number of children later at risk for crime.


\(^{29}\) Ibid., p. 199.

1993 through 1997, but determined that there was no evidence for a long-term relationship between unemployment and the property crime rate between 1970 and 1997. Further, Steven Levitt concluded that there was a statistically significant, but substantively small, impact of unemployment on the property crime rate during the 1990s. 31 Even looking within the 1990s, there is a stronger correlation between unemployment and the property crime rate in the late 1990s than in the early 1990s. 32 Because the conclusions drawn about the relationship between unemployment and the property crime rate differ not only across larger time periods, but across shorter segments of time, it is difficult for researchers to predict the effect—if any—that today’s unemployment rate will have on the property crime rate.

Secondly, the source of the data and its level of aggregation, both for unemployment and for crime statistics, appears to affect the strength of the relationship between these variables. 33 For example, Theodore Chiricos found that the “level of aggregation” of the data influenced the conclusions. Of the studies he examined using state-level data, 21% revealed a significant positive relationship between unemployment and the property crime rate, while 14% of the studies showed a significant negative relationship. Of those studies that relied on city-level data, a larger proportion showed a significant positive relationship, while a smaller proportion of the studies showed a significant negative relationship. 34 Chiricos suggested that whereas state-level data may be relatively heterogeneous (e.g., it includes a wider variety of socioeconomic variables), city-level data may be more homogenous and thus more likely to reflect the specific trends observed within a given group of individuals in the city. Therefore, in considering potential effects of the current economic downturn on crime rates, it may be that the unemployment-crime relationship differs across various parts of the country. If this relationship is not consistent across the country, it may affect conclusions drawn about unemployment-crime trends across the nation as a whole.

Thirdly, there may be external factors that affect the unemployment-crime relationship. If there were a direct link between unemployment and the property crime rate, varying one would necessarily vary the other. The lack of conclusive evidence for a strong, or even significant, correlation between the two suggests that the unemployment rate may have an indirect relationship with the property crime rate. Although unemployment is correlated with overall economic conditions, it may not fully capture other key economic indicators such as work hours, employment stability, and wages. 35 Some researchers, for example, have found that employment stability and wages may correlate more strongly with the property crime rate than does unemployment. 36 Eric Gould and colleagues demonstrated that, although the increased

33 The effect of the level of data aggregation on the relationship between unemployment and crime was also discussed in congressional testimony by Dr. Ann Dryden Witte, Department of Economics, University of North Carolina, Chapel Hill, at U.S. Congress, Joint Economic Committee, The Social Costs of Unemployment, 96th Cong., 1st sess., October 31, 1979.
unemployment of non-college-educated men was associated with an increase in the property crime rate, a decrease in wages for this demographic group was actually more strongly correlated.37

**Home Foreclosures and Crime Rates**

The current recession has been linked by some observers to falling home prices and an increase in mortgage delinquencies that have led to home foreclosures.38 Essentially, as home prices have fallen over the past two years, homeowners across the country have increasingly found themselves owing more on their mortgages than the market value of their homes. This, in turn, has led to a rapid increase in the delinquency rate on mortgage payments and to the rate at which banks have entered into the foreclosure process. As mentioned earlier, NBER indicates that the economic recession began in December 2007. Home foreclosure data from that time (the fourth quarter of 2007) indicate that 2.04% of all home loans were in foreclosure.39 The most recent data indicate that the percentage has increased, as 4.47% of all home loans were in foreclosure at the end of September 2009.40 Given the current economic climate and the increase in home foreclosures across the nation, there has been much interest concerning what kind of impact foreclosures, which can lead to houses sitting empty for some time, have on crime rates. Although a large number of newspaper articles have cited anecdotal evidence that crime rates increase in neighborhoods where many foreclosures have occurred,41 there is a dearth of scientific studies on the impact that home foreclosures have on crime rates. In fact, the only recent academic study addressing the link between foreclosures and crime that CRS identified examined this foreclosure-crime relationship in one particular locale rather than on a national level.42

**Theories**

The main literature analyzing crime rates through the spectrum of the housing market has descended from the “broken windows” theory elucidated by James Wilson and George Kelling in 1982. According to this theory, physical signs of disorder in a neighborhood (such as broken windows, graffiti, and abandoned buildings) generate apathy and fear among the residents of that neighborhood. Wilson and Kelling argue that “at the community level, disorder and crime are usually inextricably linked, in a kind of developmental sequence.”43 The authors reason that as

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more houses become abandoned in a neighborhood, the neighborhood begins to feel untended to its residents, leading to an increase in the delinquent activities and ultimately the crime that will occur there. Wilson and Kelling suggest that by focusing policing on minor misdemeanor laws (such as graffiti, vandalism, and loitering), urban police departments could help reduce more serious crime. This has come to be known as “order maintenance” policing, and it has been adopted as a strategy by many urban police departments across the country. A number of studies have shown a relationship between physical signs of disorder in a neighborhood and increasing crime. However, there is mixed evidence concerning whether there is a causal link between neighborhood disorder and crime, and whether “order maintenance” policing can reduce crime rates.

It is important to note, however, that the neighborhood declines measured in many of these studies usually take place over an extended period of time—often longer than a decade—while home foreclosures can occur suddenly. However, if foreclosed properties remain on the market for extended periods of time, or become abandoned or blighted, they may accelerate the process of neighborhood decline. The impact that foreclosures have on neighborhoods can also differ widely depending on the characteristics of the particular neighborhood involved. In neighborhoods where demand for residential property is strong, or neighborhoods where foreclosures are not heavily concentrated, foreclosures may not have much of an impact. On the other hand, if foreclosures are concentrated heavily in one particular neighborhood, or if foreclosures take place in neighborhoods with low demand for residential property, the impact on the neighborhood may be significant.

Overview of the Literature

The only recent academic study addressing the link between foreclosures and crime that CRS was able to identify analyzed the housing market and crime rates in Chicago. After controlling for a number of socioeconomic factors, the authors concluded that violent crime—but not property crime—was linked to increases in neighborhood foreclosures. The authors noted that, given their statistical analysis, a 1% increase in foreclosures would be accompanied by a 2.3% increase in violent crime. They also noted that property crimes may have been underreported because they were related to vacant or abandoned houses, or because they took place in lower-income neighborhoods, where residents may be less likely to report property crimes than residents in comparable higher-income neighborhoods. Because the study was restricted to a large urban center, however, it has limited generalizability to other, less urban parts of the country.

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46 Impact of Foreclosures on Crime.

47 Impact of Foreclosures on Crime.

48 Ibid., p. 863.

49 As mentioned earlier, generalizability refers to whether a study’s results can be applied to other populations than the one studied. In this case, urban areas are very different from rural or suburban areas in a number of socioeconomic variables that may inhibit this study’s ability to predict the relationship between foreclosures and crime in non-urban areas.
Moreover, the study analyzed one year of data. This focus on one year of data may make it difficult to extrapolate the study’s results over a longer period; instead, the study represents a snapshot of one place in time.

Similar findings regarding the relationship between home foreclosures and crime rates come from the Charlotte-Mecklenburg Police Department (CMPD) in North Carolina. The CMPD examined a five-year period from 2003 through 2007 and concluded that “[v]iolent crime rose consistently during the 5-year period in the high-foreclosure neighborhoods, but remained significantly lower in the low-foreclosure neighborhoods, except in 2004.” Property crime rates did not appear to be as closely linked to foreclosures as were violent crime rates. Moreover, the authors did not control for other factors (such as the age of homes in foreclosure) that may have contributed to the difference in violent crime between the high-foreclosure neighborhoods and other neighborhoods.

Another study identified by CRS from the 1990s examined the relationship between foreclosures and crime—specifically, the impact of crime on foreclosures rather than the impact of foreclosures on crime. The study concluded that increases in crime rates led to increases in mortgage delinquencies and foreclosures. The authors found that crime rates were inversely related to property values in the United States; decreases in property values were one of the chief determinants of increases in mortgage delinquency rates leading to foreclosures. It should be noted that this is not a direct relationship between crime and foreclosures, but rather an indirect relationship; crime is linked to property values, and property values are linked to mortgage delinquencies, which are in turn linked to foreclosures. The author concluded that increases in violent crime had a three-year lag effect on decreasing property values, while increases in property crime had a more immediate one-year lag effect on decreasing property values. However, the author did not control for other socioeconomic, neighborhood, and financial characteristics that could have contributed to or accounted for the decreases in property values. Conversely, as previously noted, the use of aggregate data could have had a dampening effect on the study’s results.

Other Economic Indicators

While much research on the relationship between economic variables and crime rates has focused on macroeconomic variables such as unemployment and home foreclosures, some research suggests that other economic variables could fluctuate more strongly with crime rates and could thus serve as better proxies for evaluating the relationship between the economy and crime.

50 The study used 2000 census tract data for the population in the city, and 2001 crime data and business count data.
Gross Domestic Product (GDP)/Gross State Product (GSP)

For example, in examining factors affecting the property crime rate between 1980 and 1997, Reza Fadaei-Tehrani and Thomas Green ran a correlation between six different independent variables (GDP, median income, education expenditures, poverty rate, drug seizures, and unemployment) and the property crime rate. They did not find a significant relationship between unemployment—the most highly examined economic variable—and the property crime rate. They did, however, determine that a decrease in the property crime rate was significantly related to an increase in public expenditures for education, median income, and gross domestic product (GDP). Together, these three variables accounted for about 74% of the variation in the property crime rate from 1980 through 1997, and the GDP accounted for about 28%. These results suggest that crime rates—the property crime rate, in particular—may be linked to the economy, but that researchers may not see the relationship by studying traditional macroeconomic factors such as unemployment.

Thomas Arvanites and Robert Defina utilized inflation-adjusted, per capita gross state product (GSP) as an indicator of economic strength and found a significant relationship between GSP and the property crime rate from 1986 through 2000. They argue that GSP may be a more valid proxy for economic strength than the unemployment rate because while the unemployment rate may correlate with overall economic conditions, it may not reflect changes in other economic indicators such as work hours, wages, job mobility, and job security—other key indicators of economic conditions. One particular limitation of using this data range (1986-2000) is that crime rates were generally declining during that time; a larger range would allow the researchers greater generalizability of their findings. Like many of the other studies, the correlational nature of these studies does not allow for conclusions about causality.

Consumer Sentiment

Researchers have suggested that consumer sentiment may correlate with crime rates, particularly for those crimes that may be, to some extent, economically motivated. The idea behind the use of a broader gauge for the economy than concrete macroeconomic factors is the notion that "[a]s the economy deteriorates, one’s ability to meet their financial and emotional needs, regardless of her/his employment status, may become strained." In direct response to this idea, Richard Rosenfeld and Robert Fornango used annualized values from the Index of Consumer Sentiment

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53 According to the Bureau of Economic Analysis, gross domestic product is “the market value of goods and services produced by labor and property in the United States, regardless of nationality; GDP replaced gross national product (GNP) as the primary measure of U.S. production in 1991,” http://www.bea.gov/glossary/glossary.cfm.

54 Gross state product, also referred to as GDP by state, is the value added in production by the labor and capital located in a state. GDP for a state is derived as the sum of the GDP originating in all industries in the state. Bureau of Economic Analysis, “Gross domestic product by State,” September 19, 2008.


57 As discussed earlier, correlation does not imply causation.

Economic Downturns and Crime

(ICS) as a proxy for how individuals perceived the economy and contrasted it with UCR data for crimes they deemed to be economically motivated, such as robbery, burglary, and larceny. Results from their analyses indicated that consumer sentiment was more highly correlated with robbery and property crimes than more traditional measures of the economy, such as the unemployment rate. These results underscore the importance of analyzing perceived economic conditions in addition to actual economic conditions. One particular limitation of this study, however, is that the researchers did not consider the effect of consumer sentiment on violent crimes other than robbery. Many violent crimes, including murder and assault, may have a nexus to economic motivation, such as a robbery that ends up with the victim being accidentally killed. However, most of the research reviewed by CRS failed to establish a reliable link between economic variables and violent crimes.

Issues for Congress

As discussed earlier, no two recessions are identical, and thus some economic variables may be at greater flux during some recessions than during others. Similarly, as illustrated in Figure 1 and Figure 2, crime rates may fluctuate more during some recessions than during others. If crime rates were to increase during the current recession, policy makers may focus on the nature of the relationship between this recession and crime rates. The literature reviewed by CRS has several possible implications for policy makers. It does not appear that recessions—as measured by macroeconomic variables such as the unemployment rate or home foreclosures—can be definitively linked to increases in crime rates. However, preliminary research on other (though less-studied) factors, such as GDP (or GSP) as well as consumer sentiment, indicates there may be some correlation between these factors and crime rates, and these relationships warrant further research. In addition, research on economic indicators and crime rates using aggregate data—particularly on the national level—appears to produce less conclusive results than research using state or city-level data.

Congress has expressed concern over whether the current economic downturn may be partnered with an increase in crime. The Senate Committee on the Judiciary held a hearing on January 15, 2009, concerning whether there is a need to increase federal assistance to state and local law enforcement agencies. Congress then passed legislation that, among other things, authorized over $3 billion in funding for law enforcement assistance. Issues that the 111 Congress may consider could include whether the downturn in the economy is related to crime rates and, if so, whether increases in the number of law enforcement officers will affect crime rates.

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59 Both the Confidence Board and the University of Michigan, Index of Consumer Sentiment publish monthly consumer confidence ratings. The Index of Consumer Sentiment is calculated based on individuals’ responses to questions about personal finances, outlook for the economy, and buying conditions for durables. Richard Curtin, The University of Michigan’s Consumer Sentiment Index, Surveys of Consumers, the University of Michigan, September 1, 2007.


61 In response to the current economic crisis, funding for the two main federal grant programs related to state and local law enforcement assistance—the Community Oriented Policing Services (COPS) and the Justice Assistance Grants (JAG) programs—was included in the American Recovery and Reinvestment Act of 2009 (P.L. 111-16).
Current Economic Downturn Relationship to Crime Rates

The economic climate has led some to speculate that increases in unemployment and home foreclosures could lead to increases in crime. However, CRS found little historical evidence of correlation between broad macroeconomic trends or foreclosures and crime rates, and the literature on the relationship between unemployment and crime rates provided mixed results. However, as noted, research using city- and state-level data rather than aggregate national data demonstrated stronger relationships between economic variables and crime rates—particularly property crime rates. This suggests that some areas of the country may experience a greater relationship between the economic downturn and crime rates than other areas. Consequently, one policy option may involve determining those localities that are experiencing larger increases in crime and directing state and local law enforcement assistance to those areas.

As mentioned earlier, our review did find limited evidence of some correlation between crime and microeconomic indicators such as consumer sentiment. This could suggest that how people perceive the economy may be more related to increases in crime than any tangible economic trends. This may be of interest to Congress, given the highly negative view of the economy revealed by recent surveys of consumer sentiment. The University of Michigan consumer sentiment survey used by CRS in this report, for example, reached 55.3—its lowest level in almost three decades—in November 2008. Consumer sentiment has since rebounded and reached 72.5 in December 2009, though this level remains lower than consumer sentiment levels at the start of the recession. If the past correlation between consumer sentiment and crime holds true, this indicator suggests that crime rates may be decreasing in the near future—particularly if consumer sentiment continues to increase. However, if consumer sentiment remains relatively low or further declines, crime rates may be expected to rise.

Relationship of Number of Law Enforcement Officers and Crime Rates

If crime rates do, in fact, increase during economic downturns (something that the literature and data are inconclusive about), policy makers may be interested in what measures can be taken to address the potential increase in crime that may be caused by the most recent economic decline. Some have suggested that additional funding be made available for state and local law enforcement agencies to hire additional police officers in order to counteract any potential increases in crime rates generated by the declining economy. This line of thought is related to the deterrence theory of crime, which predicts that increasing law enforcement (in this case by increasing the police force) has a deterrent effect on crime. Policy makers have often discussed whether increasing the number of police on the streets will subsequently decrease the incidence of crime.

CRS reviewed the empirical literature that has evaluated the impact of the size of the police force on crime rates. Overall, the results of these investigations indicate that there is no conclusive

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64 The information in this paragraph was provided by CRS analyst, Nathan James.
evidence regarding the impact of police force size on national crime rates; the studies reported all possible results—law enforcement increased crime, decreased crime, and had no effect on crime. The total body of research suggests that law enforcement may have little impact on the amount of crime. However, researchers have acknowledged that past research suffered from a series of methodological and analytical problems, which could mean that any conclusions drawn from those studies are dubious. Some of the most recent research—which some argue is more methodologically sound than past research—suggests that more law enforcement officers could have a negative impact on crime. Yet, as some experts have noted, the ability to study the relationship between law enforcement levels is limited by the amount of data available and the current theory about what factors impact crime rates.

Congress may face the issue of whether funding additional law enforcement officer positions is a cost-effective method of reducing crime, or whether there may be other ways to support the states’ criminal justice systems. Congress may also consider whether it might be more effective to fund programs that address other correlates of crime rather than funding state and local law enforcement hiring programs such as Community Oriented Policing Services (COPS).

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67 For a discussion of the costs and benefits of increasing law enforcement positions (and in particular through the COPS Program), see CRS Report RL33308, Community Oriented Policing Services (COPS): Background, Legislation, and Funding, by Nathan James.