The illusion of moral decline

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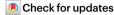
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Anecdotal evidence indicates that people believe that morality is declining^{1,2}. In a series of studies using both archival and original data (n = 12,492,983), we show that people in at least 60 nations around the world believe that morality is declining, that they have believed this for at least 70 years and that they attribute this decline both to the decreasing morality of individuals as they age and to the decreasing morality of successive generations. Next, we show that people's reports of the morality of their contemporaries have not declined over time, suggesting that the perception of moral decline is an illusion. Finally, we show how a simple mechanism based on two well-established psychological phenomena (biased exposure to information and biased memory for information) can produce an illusion of moral decline, and we report studies that confirm two of its predictions about the circumstances under which the perception of moral decline is attenuated, eliminated or reversed (that is, when respondents are asked about the morality of people they know well or people who lived before the respondent was born). Together, our studies show that the perception of moral decline is pervasive, perdurable, unfounded and easily produced. This illusion has implications for research on the misallocation of scarce resources³, the underuse of social support⁴ and social influence⁵.

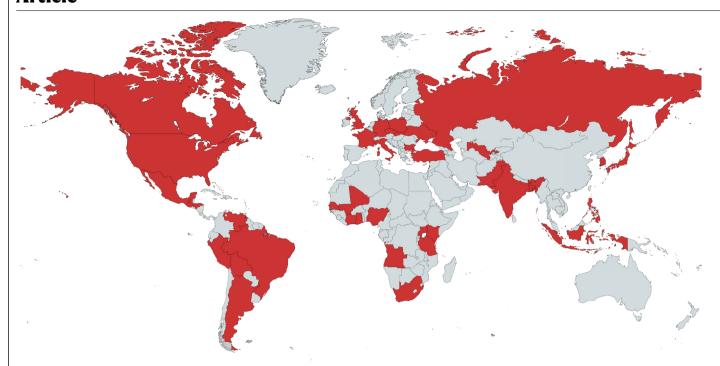
The social fabric appears to be unravelling: civility seems like an old-fashioned habit, honesty like an optional exercise and trust like the relic of another time. Some observers⁶ claim that "the process of our moral decline" began with the "sinking of the foundations of morality" and proceeded to "the final collapse of the whole edifice", which brought us "finally to the dark dawning of our modern day, in which we can neither bear our immoralities nor face the remedies needed to cure them". But as apt as this description of our times may seem, it was written more than 2.000 years ago by the historian Livy, who was bemoaning the declining morality of his fellow Roman citizens. From ancient to modern times, social observers have often lamented the ugly turns their societies have taken, and have often suggested that a recent decline in morality-in kindness, honesty and basic human decency—was among the causes^{2,7}.

Why have so many different people in so many different times and places been convinced that their fellow citizens are now less moral than they once were? One possibility is that morality has, in fact, been declining worldwide for millennia—declining so steadily and so precipitously that people in every era have been able to observe that decline in the brief span of a human lifetime. The other possibility is that the perception of moral decline is a psychological illusion to which people all over the world and throughout history have been susceptible. We provide evidence for the latter possibility. First, we show that people in at least 60 nations do indeed believe that morality is declining, and that they have believed this for at least 70 years. Second, we show that people attribute this decline both to the decreasing morality of individuals as they age and to the decreasing morality of successive generations. Third, we show that people's reports of the current morality of their contemporaries have not declined over time, which strongly suggests that the perception of moral decline is an illusion. Fourth and finally, we describe tests of a simple psychological mechanism that can produce the illusion of moral decline and can predict some of the circumstances under which it will be attenuated, eliminated or reversed (for example, when respondents are asked about the morality of people they know well or people who lived before the respondent was born).

Do people perceive moral decline?

Morality refers primarily to people's treatment of each other⁸, which ranges from the altruistic9 to the barbaric10. But like most social observers. Livy was not remarking on the moral extremes—on the rare heroic deed or occasional heinous crime that few people ever perform or experience. Rather, he was remarking on the ways in which ordinary people behave in their daily lives. Do modern people, like Livy, believe that their contemporaries are less honest and kind than they used to be? Do they think their neighbours are less generous and less helpful, that their co-workers are more likely to treat each other disrespectfully and betray each other's trust? Survey researchers have been asking people about their perceptions of changes in these everyday moral qualities since at least 1949, but the full corpus of relevant survey data has never been systematically assembled and analysed. We began by doing that.

In study 1, we searched the databases of major survey research providers (using search terms shown in the Supplementary Information) and found 177 survey items that asked representative samples of a total of 220,772 US Americans if and how they thought other people's morality had changed over time (Supplementary Table 1). These items were administered over a 70-year span from 1949 to 2019. Typical items included: "Do you think that over the last few decades our society has become less honest and ethical in its behavior, more honest and ethical, or has there been no change in the extent to which people behave $honestly\, and\, ethically?"\, and\, "Right\, now,\, do\, you\, think\, the\, state\, of\, moral\, and\, the\, state\, of\, moral$ values in this country as a whole is getting better or getting worse?"



 $\textbf{Fig. 1} | \textbf{Countries surveyed by Pew in 2002 or 2006.} \\ In every country surveyed by Pew in 2002 or 2006 (shown in red), the majority of participants reported that the properties of the$ moral decline was at least a "moderately big problem". Map created with Map Chart.

(further methodological details can be found in the concluding method section as well as in the Supplementary Information). On 84.18% of the items, the majority of participants reported that morality had declined. A linear model indicated that the proportion of participants who reported moral decline was not significantly influenced by the year in which the survey was administered, b = 0.07,95% confidence interval (CI) = [-0.11, 0.24], t(175) = 0.77, P = 0.45, adjusted $R^2 = -0.002$, and the same model fit in a Bayesian framework indicated strong evidence of no effect (Bayes Factor of 0.04), which is to say that US Americans have been reporting moral decline at the same rate for as long as researchers have been asking them about it. (These and all tests we report are two-tailed).

Two more findings were noteworthy. First, participants in study 1 were more likely to perceive moral decline when they were asked about longer periods of time (for example, "the last decade") than about shorter periods of time ("the last year"), b = 0.57, 95% CI = [0.09, 1.05], t(43) = 2.42, P = 0.02, adjusted $R^2 = 0.10$, which is precisely what one would expect if participants believed that morality has been declining continuously. Second, participants reported increases in morality when asked about a few specific issues on which social progress has clearly been made: for example, 59% of participants reported improved treatment of African Americans, 51% reported improved treatment of people with physical disabilities and 50% reported improved treatment of gay people. The fact that participants calculated moral decline cumulatively across time periods and acknowledged special exceptions to the general trend suggests that they were reporting well-considered beliefs, and not merely expressing some vague sense of despair about humanity. Indeed, in the Supplementary Information, we report an extra study (Supplementary study 3) showing that the perception of moral decline persists even when people are incentivized to respond accurately.

The perception of moral decline was not unique to US Americans. We resampled the databases of major survey research providers and found 58 survey items that asked a total of 354,120 participants in 59 nations other than the United States if and how they thought other people's morality had changed over time (Supplementary Table 2). These items were administered over a 13-year span from 1996 to 2007. An analysis of these items showed that on 86.21% of the items, the majority of non-US participants reported that morality had declined. Indeed, the Pew Research Center surveyed citizens of 40 nations in 2002 (ref. 11) and 2006 (ref. 12) and, as Fig. 1 shows, in every one of those nations, the majority of participants reported that moral decline was at least a "moderately big problem".

The survey items we analysed in study 1 (Supplementary Tables 1 and 2) used a wide range of question formats to ask participants over a wide range of decades about moral decline across a wide range of time periods, and they converged on a single conclusion: people all over the world believe that morality has declined, and they have believed this for as long as researchers have been asking them about it. Archival data are uniquely able to tell us how people in the past thought and felt, but they have limits. Some of the items we analysed asked participants for their perceptions of changes in "moral values" without specifying what those values were (for example, "Right now, do you think the state of moral values in this country as a whole is getting better or getting worse?"), some failed to specify the time in the past to which the present was to be compared (for example, "Compared to the past, are people today more or less friendly toward their neighbors?") and some contained ambiguous wording that was not optimal for extracting accurate measures of people's perceptions of moral decline ("Considering just the moral climate of the country today, do you feel things in this country are generally going in the right direction or do you feel things have pretty seriously gotten off on the wrong track?"). In addition, all items asked participants questions about the presence or absence of moral decline rather than asking them to rate the level of morality of people in both the present and the past, which allowed us to compute the proportion of participants who perceived moral decline but not how much decline they perceived. We addressed these and other limitations of the archival data by conducting three original studies.

In studies 2a-c, we asked samples of US Americans to rate how "kind, honest, nice, and good" people were in 2020 (the year the studies were conducted), as well as in various other years that differed by study. Methodological details can be found in the concluding method section and in the Supplementary Information. As Fig. 2 shows, participants in

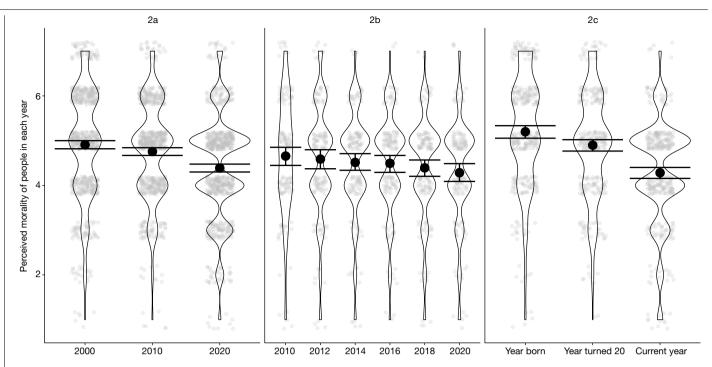


Fig. 2 | Results of studies 2a-c. The panels show the results of studies 2a (left panel), 2b (middle panel) and 2c (right panel). Opaque points represent means.Transparent points represent individual observations jittered for legibility. Error bars represent 95% Cls. Study 2an = 698, study 2bn = 148 and study 2cn = 347.

study 2a (n = 698 respondents on Prolific), study 2b (n = 185 respondents on Amazon Mechanical Turk) and study 2c (n = 347 respondents)on Amazon Mechanical Turk) perceived moral decline. Specifically, in study 2a, participants rated people as less kind, honest, nice and good in 2020 (mean (M) = 4.39) than in 2010 (M = 4.76, b = -0.37, b = -0.37)95% CI = [-0.46, -0.28], t(1394) = -9.38, P < 0.001, Cohen's d = -0.50), or in 2000 (M = 4.91, b = -0.52, 95% CI = [-0.62, -0.43], t(1394) = -13.23, P < 0.001, d = -0.71), and as less kind, honest, nice and good in 2010 than in 2000, b = -0.15, 95% CI = [-0.25, -0.06], t(1394) = -3.85, P < 0.001, d = -0.21. We also conducted two direct replications of study 2a (one of which was preregistered; Supplementary Information), which produced the same results.

In study 2b, participants rated people as less kind, honest, nice and good in 2020 (M = 4.28) than in 2016 (M = 4.49, b = -0.21, 95% CI = [-0.43, 0.006], t(735) = -2.87, P = 0.047, d = -0.33), in 2014 (M = 4.51, b = -0.23, 95% CI = [-0.45, -0.01], t(735) = -3.14; P = 0.02, d = -0.37), in 2012: M = 4.59, b = -0.30, 95% CI = [-0.52, -0.09], t(735) = -4.16, P < 0.001, d = -0.48) and in 2010 M = 4.66, b = -0.37, 95% CI = [-0.59, -0.16], t(735) = -5.08, P < 0.001, d = -0.59). Participants in study 2b also rated people in 2018 as less kind, honest, nice and good than in people in 2010 (b = -0.26, 95% CI = [-0.48, -0.05], t(735) = -3.61, P = 0.004, d = -0.32).No other comparisons were significant (all P > 0.05).

In study 2c, participants rated people as less kind, honest, nice and good in 2020 (M = 4.28) than in the year the participant turned 20 years old (M = 4.89, b = -0.61, 95% CI = [-0.77, -0.45], t(675) = -9.21, P < 0.001,d = -0.72) and in the year the participant was born (M = 5.20, b = -0.92,95% CI = [-1.07, -0.76], t(667) = -14.27, P < 0.001, d = -1.08). Participants also rated people as less kind, honest, nice and good in the year the participant turned 20 years old than in the year the participant was born, b = -0.31,95% CI = [-0.47, -0.15], t(675) = -4.70, P < 0.001, d = -0.37.

In studies 2a-c, we also examined the effects of age, gender, race, education (1 = did not finish high school; 6 = graduate degree), political ideology (-2 = very liberal; 2 = very conservative) and parental status (0 = not parent; 1 = parent) on perceptions of moral decline using an exploratory linear regression. In study 2a, more conservative

participants perceived more decline, b = -0.18,95% CI = [-0.27,-0.09], t(684) = -4.03, P < 0.001. No other effects in study 2a were significant (all P > 0.05). An additional exploratory one-sample t-test indicated that, although more conservative participants perceived more moral decline than did more liberal participants, more liberal participants perceived moral decline as well, M = -0.35, 95% CI = [-0.47, -0.23], t(398) = -4.96, d = 0.28, P < 0.001, d = 0.28. In study 2b, no other effects were significant (all P > 0.05). In study 2c, more conservative participants perceived more moral decline than did more liberal participants, b = -0.15, 95% CI = [-0.28, -0.12], t(329) = -2.15, P = 0.03, but more liberal participants perceived moral decline as well. M = -0.80. 95% CI = [-1.02, -0.58], t(159) = -7.23, P < 0.001, d = 0.57.

In study 2c, older participants perceived more moral decline than did younger participants, b = -0.02, 95% CI = [-0.03, -0.004]. t(329) = -2.61, P = 0.01. No other effects were significant (all P > 0.05). We further investigated the effect of age in study 2c by creating two moral decline scores: specifically, (1) we subtracted participants' ratings of people in the year the participant was 20 years old from their ratings of people in 2020 and (2) we subtracted participants' ratings of people in the year the participant was born from their ratings of people in 2020. An exploratory linear model indicated that older participants perceived more moral decline than did younger participants both compared to the year in which they turned 20 years old: b = -0.02, t(320) = -3.30,95% CI = [-0.03, -0.007], P < 0.001, and compared to the year in which they were born: b = -0.02, t(345) = -3.77, 95% CI = [-0.04, -0.01], P < 0.001. Did older participants perceive more moral decline simply because they were considering longer periods of time? Yes. We created a measure of the annual rate of moral decline by subtracting the participants' ratings of people in the year the participant was born from their rating of people in 2020, and then dividing that value by the participant's age. We then fit an exploratory linear model with the perceived annual rate of moral decline as the outcome and age as a predictor. The main effect of age was not significant, b = -0.0002, 95% CI = [-0.0005,0.0002], t(345) = -1.05, P = 0.29, and refitting the same model in a Bayesian framework provided strong evidence that perceived moral

decline per year did not differ by age (100% of high-density interval (HDI) in the region of practical equivalence (ROPE)). In other words, younger and older participants did not report different annual rates of moral decline, which is to say that they reported different total amounts of moral decline only because they were reporting on moral decline across different numbers of years.

To what do people attribute moral decline?

People clearly perceive moral decline, but to what do they attribute it? There are two possibilities. The average morality of a population may decline between two points in time $(T_1 \text{ and } T_2)$ because (1) individuals who are moral at T_1 are less moral when they reach T_2 (a phenomenon we refer to as 'personal change'), and/or (2) older people who were alive at T_1 but who died before T_2 are more moral than younger people who were alive at T_2 but who were not yet born (or who were not yet adults and therefore not sampled) at T_1 (a phenomenon we refer to as 'interpersonal replacement'). When the average morality of a population declines over very short time periods (for example, a day), the decline is probably the result of personal change (because very few people who were measured at T_1 were not also measured at T_2), and when the average morality of a population declines over very long time periods (for example, 200 years), the decline is necessarily the result of interpersonal replacement (because no human being lives for 200 years and therefore no one who was measured at T_1 was also measured at T_2).

So, what about moral decline over the intermediate time periods that participants in studies 2a-c were asked about? To which of these sources-personal change or interpersonal replacement-do people attribute such decline? In study 3 (n = 319 respondents on Amazon Mechanical Turk), we asked a sample of US Americans to rate how "kind, honest, nice, and good" people were in 2020 (the year the study was conducted) and in 2005. Methodological details can be found in the Methods and in the Supplementary Information. Next, participants rated the morality of two exclusive subsets of this population. The first subset was people who were living adults in both 2005 and 2020. The difference between these ratings was a measure of participants' perceptions of personal change between the 2 years. The second subset was people who were living adults in either 2005 or 2020, but not in both years. The difference between these ratings was a measure of participants' perceptions of interpersonal replacement between the 2 years.

A paired samples t-test indicated that participants perceived moral decline, rating people as less kind, honest, nice and good in 2020 (M = 4.35) than in 2005 (M = 4.89), t(318) = -9.88, 95% CI = [-0.65, -0.44], d = 0.55, P < 0.001. To determine whether participants attributed this moral decline to personal change and/or to interpersonal replacement, we used linear regression to determine whether and how well participants' perceptions of personal change and of interpersonal replacement predicted their perceptions of moral decline. Both measures significantly predicted participants' perceptions of moral decline (personal change b = 0.50, 95% CI = [0.40, 0.59], t(316) = 9.96, P < 0.001; interpersonal replacement b = 0.17, t(316) = 6.52, 95% CI = [0.12, 0.22], P < 0.001; adjusted $R^2 = 0.36$). We refit the model to include age, gender, race, political ideology, education and parental status as covariates, and the effects of personal change and interpersonal replacement both remained significant (personal change b = 0.50, 95% CI = [0.40, 0.60], t(304) = 9.87, P < 0.001; interpersonal replacement b = 0.18, 95% $CI = [0.13, 0.23], t(304) = 6.71, P < 0.001; adjusted R^2 = 0.38).$

In short, participants in study 3 believed that morality had declined on average over a 15-year period, and they attributed that decline both to the decreasing morality of individuals over time and to the decreasing morality of successive generations 13,14 . The fact that people attribute moral decline to both sources may help explain why their perceptions of moral decline are so robust, appearing in study 3, in the archival data of study 1 and in the original data collected for studies 2a-c.

Is morality declining?

People believe that morality is declining. Is it? Societies keep (or at least leave) reasonably good records of extremely immoral behaviour such as slaughter and conquest, slavery and subjugation or murder and rape, and careful analyses of those historical records strongly suggest that these objective indicators of immorality have decreased significantly over the last few centuries^{15,16}. On average, modern humans treat each other far better than their forebears ever did—which is not what one would expect if honesty, kindness, niceness and goodness had been decreasing steadily, year after year, for millennia. Although there are no similarly objective historical records of everyday morality—of how often people offer their seats to an elderly person, give directions to a lost tourist or help their neighbour fix a fence—there are subjective measures of such things.

Recall that in study 1, we examined people's reports of moral change, which were obtained when survey researchers asked people to mentally compare the morality of people in the present to the morality of people at some point in the past and then report the direction of the difference. But, for decades, survey researchers have also been asking people to report directly on the moral values, traits and behaviours of themselves and their contemporaries in the present: "Were you treated with respect all day yesterday?" or "Would you say that most of the time people try to be helpful, or that they are mostly just looking out for themselves?" or "During the past 12 months, how often have you carried a stranger's belongings, like groceries, a suitcase, or shopping bag?" (Supplementary Tables 3 and 4). If, as people all over the world claim, morality has been declining steadily and precipitously for decades, then people's reports of current morality should also have declined over the years. Have they?

In study 4, we searched the databases of major survey research providers (using search terms listed in the Supplementary Information) and found 107 items that were administered to 4,483,136 people across a 55-year span from 1965 to 2020, and that (1) asked participants to report on some aspect of current morality and (2) were administered at least twice, at times that were at least 10 years apart (Supplementary Table 3 shows the items). To determine whether people's reports of the current morality of their contemporaries changed over time, we fit a linear model for each survey. The year of each survey was always entered as a predictor, and the outcome was always the average perception of current morality. Because these surveys generally had large samples—some with hundreds of thousands of participants—the significance of P values is not very meaningful, so we used R^2 values as a measure of effect size. To shed further light on the size of these effects, we also fit analogous models in a Bayesian framework.

The results of both analyses were clear: people's reports of the current morality of their contemporaries were stable over time. On average, the year in which the survey was conducted explained less than 0.3% of the variance in responses, and in almost all cases it explained less than 1% (Supplementary Table 4). This result was confirmed by Bayesian analysis, which showed that 100% of the HDI was within the ROPE in all but one case, indicating that any changes over time were negligible at best. We repeated these analyses for data collected from non-US samples (33 samples, n = 7,432,736) and found similar results: on average, the year in which the survey was conducted explained less than 0.2% of the variance in responses (all items and results for the non-US sample are listed in Supplementary Table 4). In short, studies 1-3 showed that when people are explicitly asked to assess moral change, they claim that morality has declined, but study 4 shows that when people are asked to assess the current morality of their contemporaries, their assessments do not change over time.

Could this be because words can change meaning over time? If residents of Los Angeles in both 1942 and 2022 described traffic as 'heavy', it would be a mistake to conclude that traffic had not actually increased. Words such as 'heavy' and 'moral' are inherently ambiguous, and if

people adapt to changes in traffic or morality, then people in different decades may use the same ambiguous word to describe very different states of affairs. This is unlikely to be the case in study 4 because in addition to including a few items that measured traits and values with ambiguous terms such as 'morality', the dataset (Supplementary Tables 3 and 4) mainly contained items that measured specific and relatively unambiguous moral behaviours, such as "Within the past 12 months, have you been assaulted or mugged?" or "During the past 12 months, have you let a stranger go ahead of you in line?" Answers to specific and unambiguous questions such as these did not change over time. It seems rather improbable that people were less likely to allow strangers into a line in 2020 than in 2010, but that somehow in that 10-year span, the meaning of words such as 'stranger' and 'line' had changed in ways that masked that objective decline in kindness.

The subjective measures we analysed are not definitive, of course, but they strongly suggest that the widespread perception of moral decline is an illusion. Moreover, studies that use the rare objective measure of changes in everyday moral behaviour suggest the same thing. For instance, Yuan et al. 17 showed that rates of cooperation in the Prisoner's Dilemma game have increased significantly between 1956 and 2017, and in the Supplementary Information, we report the results of a study (Supplementary study 3) showing that most people mistakenly believe that such cooperation has declined.

Why do people perceive moral decline?

The results of studies 1–3 suggest that people believe that morality has declined, and the results of study 4 suggest that this belief is illusory. If morality has not declined, then why do people think it has? Although there are surely many good answers to this question, we suggest that one of them has to do with the fact that when two well-established psychological phenomena work in tandem, they can produce an illusion of moral decline. First, numerous studies have shown that human beings are especially likely to seek and attend to negative information about others¹⁸⁻²⁰, and mass media indulge this tendency with a disproportionate focus on people behaving badly²¹. As such, people may encounter more negative information than positive information about the morality of 'people in general', and this 'biased exposure effect' may help explain why people believe that current morality is relatively low. Second, numerous studies have shown that when people recall positive and negative events from the past, the negative events are more likely to be forgotten²², more likely to be misremembered as their opposite^{23,24} and more likely to have lost their emotional impact²⁵. This 'biased memory effect' may help explain why people believe that past morality was relatively high. Working together, these two phenomena can produce an illusion of moral decline. Specifically, biased exposure to information about current morality may make the present seem like a moral wasteland, biased memory for information about past morality may make the past seem like a moral wonderland and when people in a wasteland remember being in a wonderland, they may naturally conclude that the landscape has changed.

This 'biased exposure and memory' (BEAM) mechanism comports well with the results of the studies we have described, but it also makes at least two testable predictions. Specifically, the BEAM mechanism predicts that the illusion of moral decline should be attenuated, eliminated or even reversed when (1) people are exposed to a disproportionate amount of positive rather than negative information about the moral behaviour of others, as they are with their families, friends and associates, and (2) when people are asked about times for which they have little or no information in memory, such as in the years before they were born. In the Supplementary Information, we provide a mathematical model of the BEAM mechanism and show how the model makes these two predictions, which we tested in studies 5a and 5b.

Study 5a (n = 283 respondents on Amazon Mechanical Turk) tested the hypothesis that the illusion of moral decline is attenuated, eliminated or reversed when participants are asked to rate people in their personal worlds rather than people in general. As described in the Methods (and Supplementary Information), we began by measuring participants' perceptions of (1) overall moral decline; (2) personal change among people in general and (3) interpersonal replacement among people in general. Then we measured participants' perceptions of (4) personal change among people in their personal worlds and (5) interpersonal replacement among people in their personal worlds. We explained that the phrase 'personal worlds' referred to "all the people with whom you currently interact, in person or otherwise, in your everyday life. This probably includes friends, family members, coworkers, classmates, neighbors, etc.".

We used one-sample t-tests to determine whether each of the measures described above differed significantly from zero. First, participants on average perceived moral decline: they believed that people in general were not as kind, honest, nice and good in 2020 as they were in 2005 (M = -0.36), t(282) = -6.04, 95% CI = [-0.48, -0.25], d = 0.36, P < 0.001.Second, participants believed that individuals in 2020 were not as kind, honest, nice and good as those same individuals had been in 2005, M = -0.15, t(282) = -2.67, 95% CI = [-0.26, -0.04], d = 0.16, P = 0.008, and that younger people in 2020 were not as kind, honest, nice and good as older people were in 2005, M = -0.44, t(282) = -5.82, 95% CI = [-0.59, -0.29], d = 0.35, P < 0.001. In other words, as in study 3, participants believed that morality had declined among individuals and between successive generations. These results are illustrated in Fig. 3.

Did participants believe the same things about people in their personal worlds? No. First, participants believed that the individuals who were in their personal worlds in both 2005 and 2020 had shown moral improvement over that period rather than moral decline. M = 0.23. t(255) = 4.86,95% CI = [0.14, 0.33], d = 0.30, P < 0.001. Second, although participants believed that the younger people who were in their personal worlds in 2020 (but not in 2005) were not as kind, honest, nice and good as the older people who were in their personal worlds in 2005 (but not in 2020), M = -0.23, t(144) = -3.23, 95% CI = [-0.38, -0.09], d = 0.27, P = 0.002, this difference was smaller among people in their personal worlds than it was among people in general, t(144) = -2.56, 95% CI = [-0.40, -0.05], d = 0.18, P = 0.01.

To investigate the effects of demographic variables on the perception of moral decline, we fit the same exploratory model used in studies 2a-c. The outcome variable was participants' perceptions of moral decline between 2005 and 2020. Older participants perceived more moral decline than did younger participants, b = -0.02, 95% CI = [-0.03, -0.005], t(272) = -2.93, P = 0.004, and non-parents perceived more moral decline than did parents, b = 0.29,95% CI = [0.02, 0.56], t(271) = 2.12, P = 0.03, adjusted $R^2 = 0.07$. No other effects were significant (all P > 0.05).

In short, participants in study 5a believed that morality had declined among people in general, but this effect was reversed (in the case of personal change) or attenuated (in the case of interpersonal replacement) among the people they personally knew. We hasten to note that there are surely many reasons why people might think differently about people in their personal worlds than about people in general and that the BEAM mechanism is, at best, just one.

Study 5b (n = 387 respondents on Amazon Mechanical Turk) tested the hypothesis that the illusion of moral decline is attenuated, eliminated or reversed when participants are asked to rate the morality of people in general in the years before the participant was born. Participants rated how kind, honest, nice and good people in general are or were at four points in time: in the current year (which was 2021), 20 years after the participant was born, the year the participant was born, 20 years before the participant was born and 40 years before the participant was born. We fit the same model and planned contrasts used in studies 2a-c. As in our previous studies, participants perceived moral decline among people in general in the years after the participant was born. Specifically, participants believed that people in general

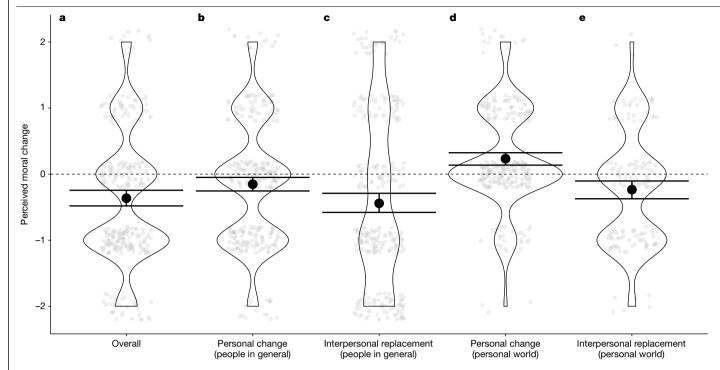


Fig. 3 | **Results of study 5a.a**–**e**, From left to right, this figure shows the perceived difference in morality of (**a**) people in general in 2005 and people in general in 2020 (overall) (**b**), people in general who were sampled both in 2005 and 2020 (personal change among people in general) (**c**), people in general who were sampled in 2005 or 2020 but not in both years (interpersonal replacement among people in general) (**d**), people in the participant's personal world who

were sampled both in 2005 and 2020 (personal change among people in personal world) and (e) people in the participant's personal world who were sampled in 2005 or 2020 but not in both years (interpersonal replacement among people in participant's personal world). Opaque points represent means. Transparent points represent individual observations jittered for legibility. Error bars represent 95% CIs. n=283.

were (1) less kind, honest, nice and good in 2021 (M = 4.27) than they were in the year the participant was 20 years old (M = 4.96), b = -0.68, 95% CI = [-0.85, -0.51], t(1513) = -10.07, P < 0.001, d = -0.75 and (2) less kind, honest, nice and good in the year the participant was 20 years old than they were in the year the participant was born (M = 5.13), b = -0.18, 95% CI[-0.35, -0.01], t(1513) = -2.60, P = 0.03, d = -0.19. However, there was no evidence to suggest that participants perceived moral decline in the years before they were born. Specifically, there was no evidence that participants believed that people in general were (1) any more or less kind, honest, nice and good in the year the participant was born (M = 5.13) than they were 20 years before the participant was born (M = 5.14), b = -0.01, 95% CI = [-0.17, 0.15], t(1506) = -0.16, P = 0.87,d = -0.01 and (2) any more or less kind, honest, nice and good 20 years before the participant was born (M = 5.14) than they were 40 years before the participant was born (M = 5.05), b = 0.09, 95% CI = [-0.24][0.04], t(1506) = -1.42, P = 0.31, d = 0.10. Equivalence tests using the 'parameters' package in R²⁶ indicated that there was insufficient evidence to conclude that participants' ratings for 40 years before their birth and 20 years before their birth were equivalent (91.74% of HDI in ROPE, P = 0.09; if anything, participants perceived moral improvement between these years), but that there was sufficient evidence to conclude that participants' ratings for 20 years before their birth and the year of their birth were equivalent (100% of HDI in ROPE, P = 0.003). In short, participants believed that moral decline began at about roughly the same time they appeared on Earth. These results are illustrated in Fig. 4.

To investigate the effects of demographic variables on the perception of moral decline, we fit the same exploratory model used in studies 2a-c. The outcome variable was perceived moral decline between the year of the participant's birth and 2021. More conservative participants perceived more moral decline than did more liberal participants, b=-0.33, 95% CI = [-0.45, -0.22], t(374) = -5.81, P < 0.001, but a one-sample t-test indicated that more liberal participants perceived moral decline as well,

b = -0.46, 95% CI = [-0.64, -0.28], t(196) = -5.11, P < 0.001, d = 0.36. Although older participants perceived more moral decline than did younger participants, b = -0.01, 95% CI = [-0.02, -0.003], t(374) = -2.60, P = 0.009, this was because older participants were perceiving moral decline over a longer period of time. Indeed, the same analysis used in study 2c indicated no evidence that older and younger participants perceived different annual rates of moral decline between the year they were born and 2021, b = 0.000005, 95% CI = [-0.0003, 0.0003], t(385) = 0.04, P = 0.97, consistent with the results of study 2c.

Studies 5a and 5b show that when participants were asked to assess the morality of people about whom they had mainly positive information in memory (that is, people in their personal worlds) or about whom they had little or no information in memory (that is, people who lived before the participants were born), the perception of moral decline was attenuated, eliminated or reversed, just as the BEAM mechanism predicts. The illusion of moral decline is a robust phenomenon that surely has several causes, and no one can say which of them produced the illusion that our studies have documented. Studies 5a and 5b do not directly implicate the BEAM mechanism in that production but they do make it a viable candidate for future research.

Discussion

Participants in the foregoing studies believed that morality has declined, and they believed this in every decade and in every nation we studied. They believed the decline began somewhere around the time they were born, regardless of when that was, and they believed it continues to this day. They believed the decline was a result both of individuals becoming less moral as they move through time and of the replacement of more moral people by less moral people. And they believed that the people they personally know and the people who lived before they did are exceptions to this rule. About all these things, they

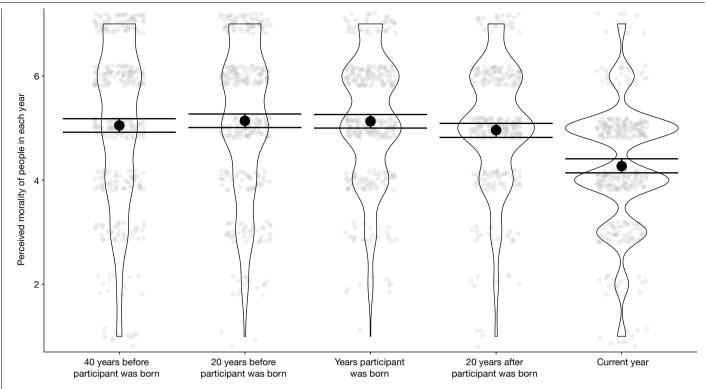


Fig. 4 | Results of Study 5b. The figure shows the perceived morality of people in various years. Opaque points represent means. Transparent points represent individual observations jittered for legibility. Error bars represent 95% CIs. n = 387.

were almost certainly mistaken. One reason they may have held these mistaken beliefs is that they may typically have encountered more negative than positive information about the morality of contemporaries whom they did not personally know, and the negative information may have faded more quickly from memory or lost its emotional impact more quickly than the positive information did, leading them to believe that people today are not as kind, nice, honest or good as once upon a time they were.

Like all studies, ours have limitations. For example, studies 1 and 4 made use of archival data that were not collected for the purposes to which we put them and that were therefore less than ideal. For example, some of the items we analysed asked participants for their perceptions of changes in 'moral values' without specifying what those values were, some failed to specify the time in the past to which the present was to be compared, and some contained ambiguous wording that was not optimal for extracting accurate measures of people's perceptions of moral decline. Moreover, all the items asked participants about the presence or absence of moral decline rather than asking them to rate the level of morality of people in both the present and the past. These limitations were addressed by studies 2a-c, but these studies had limitations of their own (for example, all participants were from the United States). And although studies 5a-b demonstrated the viability of the BEAM mechanism, they do not tell us whether it was the cause of the illusion of moral decline that our other studies documented.

With that said, the illusion of moral decline seems to be a robust phenomenon that may have troubling consequences. For example, in 2015, 76% of US Americans agreed that "addressing the moral breakdown of the country" should be a high priority for their government²⁷. The United States faces many well-documented problems, from climate change and terrorism to racial injustice and economic inequalityand yet, most US Americans believe their government should devote scarce resources to reversing an imaginary trend. The belief that everyday morality is on the wane may also affect people's interpersonal

behaviour. For example, research shows that people are reluctant to seek the aid and comfort of those whom they do not know because they underestimate how willingly those people would provide it 4,28,29 . The illusion of moral decline may be one of the reasons people do not depend as much as they might on the kindness of strangers—an act that might well ameliorate the illusion itself. The illusion of moral decline may also leave people dangerously susceptible to manipulation by bad actors. Research shows that people are especially influenced by 'dynamic norms', which are perceived changes in customary ways of behaving⁵. If low morality is a cause for concern, then declining morality may be a veritable call to arms, and leaders who promise to halt that illusory slide-to "make America great again", as it were-may have outsized appeal. Our studies indicate that the perception of moral decline is pervasive, perdurable, unfounded and easily produced. Achieving a better understanding of this phenomenon would seem a timely task.

Online content

Any methods, additional references, Nature Portfolio reporting summaries, source data, extended data, supplementary information, acknowledgements, peer review information; details of author contributions and competing interests; and statements of data and code availability are available at https://doi.org/10.1038/s41586-023-06137-x.

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Methods

Study 1

In study 1, we conducted keyword-term searches of the Roper Center for Public Opinion iPoll Database, and manually searched the databases of the General Social Survey, Pew Research Center, Gallup, the American National Election Studies, the World Values Survey, the European Social Survey and the European Values Survey to locate survey items that asked participants if and how they thought other people's morality had changed over time. In our analyses, we included all surveys that (1) used a representative sample of US American participants, and (2) explicitly asked participants about their perceptions of changes in values, traits and behaviours that have traditionally been taken as indicators of morality by a wide range of US Americans (for example, kindness, honesty. respect). We excluded from our analyses items that asked participants about their perceptions of special topics whose moral relevance either changed considerably over time (for example, men holding doors for women) or differed substantially across members of the population (for example, attending church). We also excluded items that asked participants about the morality of special subpopulations (for example, 'Evangelicals' or 'the Wisconsin legislature') rather than about all US Americans or about people in general. Further information, including search terms and all survey items included in study 1, can be found in the Supplementary Information. We also sampled our database for survey items administered to participants who lived outside the United States. Because there were fewer such surveys, we did not exclude surveys with non-representative samples, as we did with our US sample.

Study 2a

All original data collection in this and subsequent studies followed all ethical regulations and was approved by the Institutional Review Board of Harvard University.

Participants. We recruited a nationally representative sample of US American adults using Prolific, an online sample provider. This sample was constructed to represent the US American adult population in terms of gender, race and age. Because we did not know the size of the effect we were studying, we sought to make our sample comparable in size to the samples in study 1 by recruiting 1,000 participants. Nine-hundred and ninety-nine people (507 female, 487 male, 5 other, $M_{\rm age}$ = 45.74 years, 73% white, 13% Black, 7% Asian, 4% Hispanic, 1% American Indian or Alaska Native, 1% other, 2% 'more than one of the above') were paid US\$0.75 each for their participation.

Procedure. Study 2a was conducted in 2020. After providing informed consent, participants confirmed their Prolific ID, per the site's usage policy. They then read the following instructions: "Thanks! In this study, we'll ask you how kind, honest, nice, and good people were at various points in time. If you're not sure, that's okay, just give your best guess". Participants then rated how "kind, honest, nice, and good" people are today, were 10 years ago and were 20 years ago, using seven-point Likert scales with endpoints labelled 'not very' and 'very'. As a consistency check, participants were then asked to recall whether they had given higher, equal or lower ratings to people today compared to people 20 years ago. Participants then answered some open-ended exploratory questions that asked them to explain the thinking behind their answers. Participants then answered some demographic questions (Supplementary Table 6). Embedded among these demographic questions was an 'attention check question' that instructed participants to select the option 'other' and to type the word 'sky'. Finally, participants were compensated and dismissed.

Exclusions. One hundred and eighty-one participants failed the attention check embedded in the demographics and were excluded from all analyses. Another 120 participants gave answers to the consistency

check question that were inconsistent with their previous answers; they were also excluded. This left 698 participants in all analyses (372 female, 322 male, four other, $M_{\rm age} = 46.37, 74\%$ white, 12% Black, 6% Asian, 4% Hispanic, 1% American Indian or Alaska Native, 2% more than one of the above). These exclusions do not meaningfully affect the results.

Analysis. To analyse the data, we fit a linear mixed effects model using the lme4 package in \mathbb{R}^{30} , extracted P values using the lmer Test package \mathbb{R}^{31} and calculated planned contrasts using the emmeans package \mathbb{R}^{32} , using a Holm–Bonferroni correction for multiple comparisons. The outcome was participants' ratings and the predictor was the year of those ratings (one factor with three levels: 2020, 2010 and 2000). The model included a fixed effect of the year of each rating and a random intercept for each participant. For this and all models, we checked model assumptions by plotting the outcome variable, residuals and fitted values. All tests we report are two-tailed.

Study 2b

Participants. We powered study 2b to detect an effect of d=0.30 or larger, reasoning that this would be sufficient to detect effects similar to the effect we detected in Study 2a. Two-hundred and thirty-six people responded to an advertisement for a study on Amazon Mechanical Turk. To participate, respondents had to pass a three-item test that required them to know that (1) children in kindergarten are 3 or 4 years old, (2) a US American ZIP code is a series of five digits and (3) eating turkey is not associated with Halloween. Thirty-six respondents answered at least one of these three questions incorrectly and were not allowed to participate. The remaining 200 respondents (81 female, 119 male, $M_{\rm age} = 35.81$ years, 72% white, 12% Black, 9% Hispanic, 6% Asian, 3% more than one of the above) were allowed to participate in the study in exchange for US\$0.75.

Procedure. After providing informed consent, participants followed study 2a's procedure except they were asked about different years. Specifically, participants were first asked, "How kind, honest, nice, and good are people today?" and were then asked the same question for "two years ago", "four years ago", "six years ago", "eight years ago" and "ten years ago", in that order. All questions were answered using a seven-point Likert scale with endpoints labelled 'not very' and 'very'. As a consistency check, participants then answered the following question: "When it comes to being kind, honest, nice, and good—are people more so today compared to ten years ago, less so today compared to ten years ago, or the same?" Participants were then asked to explain their answer in an open-ended question. Finally, participants were asked some demographic questions, as well as an attention check question that required them to select the option 'other' and to type the word 'day'. Participants were compensated and dismissed.

Exclusions. Fifteen participants failed the attention check, and a further 37 participants failed the consistency check by giving an answer that was inconsistent with their scale ratings. The data from these participants were excluded from all analyses, leaving 148 participants (59 female, 89 male, $M_{\rm age}$ = 36.59 years, 75% white, 9% Black, 7% Hispanic, 5% Asian, 1% Hawaiian or Pacific Islander, 3% more the one of the above). These exclusions only meaningfully affect the results in one case, namely, that when all participants are included, the difference between 2020 and 2016 is not significant.

Analysis. We fit the same model we fit in study 2a except that in this case the factor in the model had six levels (2020, 2018, 2016, 2014, 2012 and 2010).

Study 2c

Participants. We sought to recruit a sample of people who varied widely in terms of age. As such, we created a survey with a quota of

50 participants in each of the following age groups: 18–24, 25–29, 30–34, 35–39, 40–44, 45–49, 50–54, 55–59, 60–64 and 65–69 years. This sample size gave us sufficient power to detect the effects we had detected in studies 2a and 2b. Respondents selected their age group on accessing the study, and once the quota for a group was reached, further respondents from that group were not allowed to participate. Respondents younger than 18 or older than 69 were not allowed to participate.

Respondents responded to an advertisement for a study on Amazon Mechanical Turk. Respondents who accessed the survey before the quota for their age group was reached were asked to complete a three-item test of English proficiency and knowledge of US American culture. Specifically, they were required to demonstrate that they knew that (1) bell bottoms are not a type of footwear, (2) an RSVP is a required response to a wedding invitation and (3) a sign reading 'out of order' is best paired with an elevator. Three hundred and one respondents answered one or more of these questions incorrectly and were not allowed to participate. The remaining 484 respondents (225 female, 257 male, two other, $M_{\rm age}$ = 41.27 years, 72% white, 15% Black, 7% Asian, 4% Hispanic, 1% American Indian or Alaska Native, 2% more than one of the above) were allowed to participate in the study in exchange for US\$0.75.

Procedure. Study 2c was conducted in 2020. Participants responded to an advertisement for a study on Amazon Mechanical Turk. After providing informed consent, participants reported how "kind, honest, nice and good" people are today. They then reported how "kind, honest, nice and good" people were when they (the participants) were about 20 years old, and at about the time they (the participants) were born. This was done by adjusting the wording of the subsequent questions on the basis of the participant's age. For example, if the participant was between 30 and 34 years old, they were asked "How kind, honest, nice, and good were people about ten years ago?" and then "How kind, honest, nice, and good were people about 30 years ago?" If participants were under 25 years, they answered only the questions for today and when they were born. All questions were answered using a seven-point Likert scale with endpoints labelled 'not very' and 'very'. As in previous studies, participants were then given a consistency check that required them to remember whether they had rated people today as more, equally or less moral compared to people in the year they were born. Participants then answered some further exploratory and demographic questions. Embedded among them was an attention check that required participants to select the option 'other' and type the word 'apple'. Finally, participants were compensated and dismissed.

Exclusions. Twenty-eight participants failed the attention check and their data were excluded from all analyses. Seventy-three more participants reported an age at the end of the study that was inconsistent with the age group they selected at the beginning of the study and the data from these participants were also excluded from all analyses. An extra 64 participants failed the consistency check and data from these participants were also excluded from all analyses. The data from the remaining 347 participants (174 female, 172 male, one other, $M_{\rm age}$ = 42.57 years, 78% white, 9% Black, 7% Asian, 4% Hispanic, 2% 'more than one of the above') were included in all analyses. These exclusions do not meaningfully change the results.

Analysis. We fit the same model we fit in study 2b except that in this case the factor in the model had three levels (today, the year the participant turned 20, the year the participant was born).

Study 3

Participants. Respondents responded to an advertisement for a study on Amazon Mechanical Turk. As in study 2c, we sought to

recruit a sample of people who varied widely in terms of age and that was large enough to provide sufficient power to detect the effects we had detected in studies 2a and 2b. We created a survey with quota of 150 for each of three age groups: 20–34, 35–49 and 50–64. Anyone younger than 20 or older than 64 was not allowed to participate. Respondents were asked to complete the same test of English language and US American culture as in study 2c. Four hundred and forty-four respondents (202 female, 242 male, $M_{\rm age}$ = 40.42 years, 77% white, 9% Black, 7% Asian, 5% Hispanic, 1% 'more than one of the above') provided informed consent and became participants in the study in exchange for US\$0.75.

Procedure. Study 3 was conducted in 2020. After providing informed consent, participants reported how "kind, honest, nice, and good" people are in the present (2020) and also "about 15 years ago" (about 2005) on seven-point Likert scales with endpoints labelled 'not very' and 'very' and then completed a consistency check that asked them to recall the answers they had just given. The difference between these two ratings was used as a measure of participants' perception of moral decline between 2005 and 2020. Participants then answered the following questions using the same seven-point Likert scales: "How kind, honest, nice, and good are people who are currently between the ages of 35 and 95?"; "How kind, honest, nice, and good are people who are currently between the ages of 20 and 35?"; "Thinking again of people who are currently between the ages of 35 and 95, how kind, honest, nice, and good were they about 15 years ago?" and "About 15 years ago, how kind, honest, nice, and good were people who were then between the ages of 80 and 95?" Participants then answered some demographics questions, among which was embedded an 'attention check question' that instructed participants to select the option 'other' and to type the word 'cloud'. Finally, participants were compensated and dismissed.

Exclusions. Forty-eight participants failed the attention check, and a further 15 participants reported an age at the end of the study that was inconsistent with the age group they reported at the beginning of the study. An extra 77 participants failed the consistency check. The data from all of these participants were excluded from all analyses, leaving 319 participants (154 female, $165 \, \text{male}$, $M_{\text{age}} = 41.02, 77\%$ white, $8\% \, \text{Black}$, $8\% \, \text{Asian}$, $5\% \, \text{Hispanic}$, $1\% \, \text{more}$ than one of the above). These exclusions do not meaningfully affect the results.

Calculating personal change and interpersonal replacement. We created a personal change score by subtracting ratings of 20–80-year olds about 15 years ago (in 2005) from ratings of 35–95-year olds in the present (2020). We created an interpersonal replacement score by subtracting ratings of 80–95-year olds about 15 years ago (in 2005) from ratings of 20–35-year olds in the present (2020). The descriptive statistics for people in general and each of the subgroups about which participants were asked are shown in Extended Data Fig. 1.

Analysis. Using a standard linear model, we entered participants' personal change and cohort replacement scores as predictors, and the outcome was participants' overall perception of moral decline between 2005 and 2020.

Study 4

Instudy 4, we conducted keyword-term searches of the Roper Center for Public Opinion iPoll Database (using search terms shown in the Supplementary Information), and manually searched the databases of the General Social Survey, Pew Research Center, Gallup, the American National Election Studies, the World Values Survey, the European Social Survey and the European Values Survey to locate survey items that asked participants questions about their own and other people's morality. As in study 1, questions were considered

relevant to morality if they asked about values, attitudes, traits and behaviours that we thought would be considered relevant to kindness, honesty, niceness and goodness by a wide range of US Americans. We included US samples only if they were nationally representative, but also collected non-representative samples if they were collected outside the United States to maximize non-US representation. The latter were analysed separately. To be included, each survey had to be administered at least twice, and the most recent administration could not be earlier than 2010. Further information, including search terms and all survey items included in study 4, can be found in the Supplementary Information.

Analysis. We fit a linear model for each survey. The year of each survey was always entered as a predictor and the outcome was always the average perception of current morality. We used R^2 values as a measure of effect size. We fit Bayesian models using the Rstanarm package in R^{33} and extracted the percentage of the 89% HDI that was contained in the ROPE, which was by default defined as ± 0.1 standard deviations. We used the package's default Markov Chain Monte Carlo and prior settings (M=0, scale of 2.5).

Study 5a

Participants. As in study 2c, we sought to recruit a sample of people who varied widely in terms of age and that was large enough to provide sufficient power to detect the effects we had detected in previous studies. We created a survey with a quota of 50 participants in each of three age groups: 20-34, 35-49 and 50-64 years. Anyone who was either younger than 20 years or older than 64 years was not allowed to participate.

One thousand and twenty-one people responded to an advertisement for a study on Amazon Mechanical Turk. They completed the same test of English language and US American culture as in study 2c. Five hundred and twenty-one respondents answered at least one of the questions incorrectly and were not allowed to participate. The remaining 500 respondents (204 female, 293 male, three other, $M_{\rm age} = 37.74$ years, 65% white, 24% Black, 7% Asian, 2% Hispanic, 1% American Indian or Alaska Native, 1% more than one of the above) provided informed consent and became participants in the study in exchange for US\$0.75.

Procedure. Study 5a was conducted in 2021. After providing informed consent, participants completed the same procedure as was used in study 2c, with two more questions. Specifically, participants rated how "kind, honest, nice, and good" people in general were 20 years before the participant was born and also 40 years before the participant was born. These years were adjusted on the basis of the age of the participant.

Exclusions. One hundred and seventy-nine participants failed the first attention check, and another 21 failed the second attention check. Another 15 participants reported an age at the end of the study that was inconsistent with the birth year they reported at the beginning. The data from all these participants were excluded from all analyses. The remaining 283 participants (139 female, 143 male, one other, $M_{\rm age}=38.77$ years, 78% white, 11% Black, 8% Asian, 2% Hispanic, 1% more than one of the above) were included in all analyses. These exclusions affect the results in a few cases. Specifically, when excluded participants are included, the overall perception of moral decline and personal change for people in general are not significant. All other effects remain significant.

Analysis. We fit the same model we fit in study 2c except that the factor in the model had five levels (2020, the year the participant turned 20, the year the participant was born, 20 years before the participant was born and 40 years before the participant was born).

Study 5b

Participants. Because this study was a replication and extension of study 2c, we sought to collect a similar sample size to have the power to detect similar effects, and we used the same age quotas as in Study 2c. One thousand eighty-two people responded to an advertisement for a study on Amazon Mechanical Turk. Twenty-one of these opened the study but did not complete it. Five hundred and sixty people responded after the quota for their age group had been reached and were not allowed to participate in the study. Respondents who responded before the quota for their age group was reached completed the same three-item test of US American culture and English language used in study 2c. Twenty-three respondents answered one or more of these questions incorrectly and were not allowed to participate in the study. The remaining 499 respondents (225 female, 241 male, three other, $M_{\rm age}$ = 43.96 years, 78% white, 10% Asian, 5% Black, 4% Hispanic, 3% more than one of the above) were allowed to participate in the study in exchange for US\$0.75.

Procedure. Study 5b was conducted in 2021. After providing informed consent, participants completed the same procedure used in study 2c. They further rated people's morality 20 and 40 years before the year that they were born.

Exclusions. Forty-four participants failed the attention check and their data were excluded from all analyses. Seven more participants reported an age at the end of the study that was inconsistent with the age group they selected at the beginning of the study and their data were also excluded from all analyses. Sixty-one more participants failed the consistency check and their data were also excluded from all analyses. The data from the remaining 387 participants (206 female, 178 male, three other, $M_{\rm age}$ = 44.04 years, 79% white, 11% Asian, 4% Black, 3% Hispanic, 2% more than one of the above) were included in all analyses. These exclusions affect the results in one case: when excluded participants are included, participants perceived moral improvement from 40 years before birth to 20 years before birth. All other effects remain the same.

Analysis. We fit the same model we fit in study 2c except that in this case the factor in the model had five levels (the year 2020, the year the participant turned 20 years old, the year the participant was born, 20 years before the participant was born and 40 years before the participant was born).

Reporting summary

Further information on research design is available in the Nature Portfolio Reporting Summary linked to this article.

Data availability

All materials and original data are available at https://osf.io/t83zy/(https://doi.org/10.17605/OSF.IO/T83ZY). The data analysed in studies 1 and 4 are the property of the polling organizations that produced them and cannot be posted. Instructions for accessing these data are also available at https://osf.io/t83zy/.

Code availability

The code necessary to reproduce all analyses is available at https://osf.io/t83zy/, except for studies 1 and 4, which requires access to proprietary data.

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Author contributions A.M.M. collected and analysed the data. A.M.M. and D.T.G. developed the study concepts, developed the study designs, drafted the manuscript and approved the manuscript.

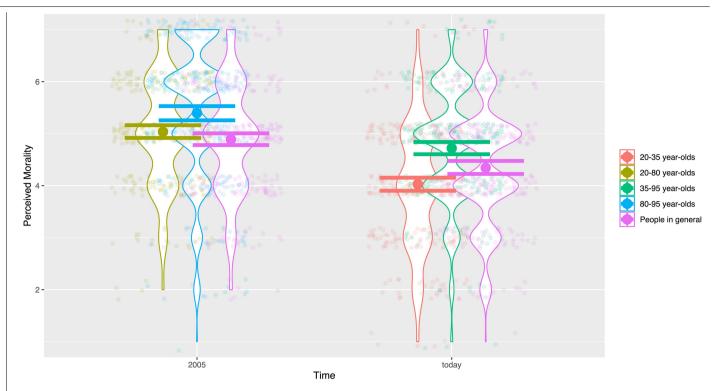
Competing interests The authors declare no competing interests.

Additional information

Supplementary information The online version contains supplementary material available at https://doi.org/10.1038/s41586-023-06137-x.

Correspondence and requests for materials should be addressed to Adam M. Mastroianni. Peer review information *Nature* thanks Roy Baumeister and the other, anonymous, reviewer(s) for their contribution to the peer review of this work.

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Extended Data Fig. 1| **Descriptive Statistics in Study 3.** Error bars represent 95% confidence intervals. Transparent points represent individual observations jittered for legibility.

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Reporting Summary

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	For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings
	For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes
	Estimates of effect sizes (e.g. Cohen's <i>d</i> , Pearson's <i>r</i>), indicating how they were calculated
	Our web collection on statistics for biologists contains articles on many of the points above.

Software and code

Policy information about availability of computer code

Original data was collected using Qualtrics survey software. Data collection

> Data analysis was conducted using the R statistical software version 4.0.2. Additionally, we used the following packages: Ime4 (v. 1.1-23), ImerTest (3.1-2) and emmeans (1.4.7). All external packages used are included in the code package available on OSF:

https://osf.io/t83zy/ For manuscripts utilizing custom algorithms or software that are central to the research but not yet described in published literature, software must be made available to editors and reviewers. We strongly encourage code deposition in a community repository (e.g. GitHub). See the Nature Portfolio guidelines for submitting code & software for further information.

Data

Data analysis

Policy information about availability of data

All manuscripts must include a data availability statement. This statement should provide the following information, where applicable:

- Accession codes, unique identifiers, or web links for publicly available datasets
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All original data is publicly available on OSF: https://osf.io/t83zy/. The archival data is proprietary and cannot be shared publicly, but the data documents for Studies 1 and 4 include links through which data can be accessed for anyone with institutional access.

Human research participants

Policy information about studies involving human research participants and Sex and Gender in Research.

Reporting on sex and gender

Participants self-reported their gender in our original studies by selecting "male", "female", or "other". We did not hypothesize any interactions between gender and our main results. We included gender as a covariate in our exploratory analyses, and no effects were significant in any study.

Population characteristics

Demographics questions are listed verbatim in Table S6 in the Supplementary Material. Demographic breakdowns for each study before and after exclusions are given in the Concluding Methods.

Recruitment

In our original studies, participants were recruited on the Prolific platform and on the Amazon Mechanical Turk platform via an advertisement for a short study.

Ethics oversight

All studies were approved by the Institutional Review Board of Harvard University.

Note that full information on the approval of the study protocol must also be provided in the manuscript.

Field-specific reporting

Please select the one below that is the best fit for your research. If you are not sure, read the appropriate sections before making your selection.

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Behavioural & social sciences study design

All studies must disclose on these points even when the disclosure is negative.

Study description

Our studies are mixed methods. Studies 1 and 4 are analyses of archival data. Studies 2a-c, 3, 5a-b, and S1-S3 are original surveys.

Research sample

The samples for Studies 2a and S1 are from the Prolific survey platform and it is designed to be representative of the adult population of the United States in terms of age, race, and gender. The samples for Studies 2b, 3, and 5a, S2, and S3 are convenience samples from Amazon Mechanical Turk. Studies 2c and 5b are from Amazon Mechanical Turk, but were additionally filtered to get a broader range of age representation. These samples were used because previous research has suggested that they are broadly similar to other samples traditionally used in psychology (e.g., Paolacci, Chandler, Ipeirotis, 2010). Archival data for Studies 1 and 4 came from a large number of polling data providers, including Gallup, Pew, the American National Election Studies, and the General Social Survey, as well as hundreds of results indexed in the Roper iPoll online database.

Sampling strategy

The samples for Studies 2a and S1 were designed to be nationally representative of the adult population of the United States in terms of age, race, and gender by the Prolific platform. All other original studies were open to anyone on Amazon Mechanical Turk, with the exceptions described above. In our original studies, because we did not know the size of the effect we were seeking to detect, we used a guideline of the sample size required to detect an effect of d = .3 using a two-tailed, one-sample t-test (N = 146). We collected larger samples than this number for a number of reasons: a) to account for possible exclusions, b) to obtain a nationally representative sample (Study 2a) or samples with broader age representation (Studies 2c and 5b), and c) to ensure that we reached sufficient numbers of participants who experienced cohort replacement and individual change in their personal worlds (Study 5a). Sample sizes were determined a priori and no data was analyzed before reaching our target N.

Data collection

For studies 2a-c, 3, and 5a-b, and S1-3, participants completed the survey online at a time and place of their choosing. The researchers were not present.

Timing

Study 2a: June 2020 Study 2b: January 2020 Study 2c: January 2020 Study 3: March 2020 Study 5a: May 2020 Study 5b: March 2021 Study 51: November 2022 Study S2: January 2020 Study S3: September 2022

The archival data used in Studies 1 and 4 were collected between 1949 and 2020.

Data exclusions

Participants were only excluded if they failed one or more attention and quality control checks, which were specific to each study. These are listed for each study in the Concluding Methods. We also note whenever exclusions affect results. These exclusions were decided upon a priori.

Non-participation

We report for each study in the Concluding Methods whether there were any participants who began but did not finish the study.

Reporting for specific materials, systems and methods

We require information from authors about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each material, system or method listed is relevant to your study. If you are not sure if a list item applies to your research, read the appropriate section before selecting a response.

Ma	terials & experimental systems	Methods		
n/a	Involved in the study	n/a	Involved in the study	
\boxtimes	Antibodies	\boxtimes	ChIP-seq	
\boxtimes	Eukaryotic cell lines	\boxtimes	Flow cytometry	
\boxtimes	Palaeontology and archaeology	\boxtimes	MRI-based neuroimaging	
\boxtimes	Animals and other organisms		•	
\boxtimes	Clinical data			
\boxtimes	Dual use research of concern			

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SECTION 1: ADDITIONAL DETAILS OF STUDIES APPEARING IN MAIN TEXT Search Terms Used in Studies 1 and 4

We searched the following databases (hyperlinked to source): General Social Survey, Pew Research Center, Gallup, the American National Election Studies, the World Values Survey, the European Social Survey, and the European Values Survey. In addition, we queried the Roper Center for Public Opinion using the following search terms: moral/morality, kind/kindness, honest/honesty, nice/niceness, good/goodness, polite/politeness, rude/rudeness, ethics/ethical, lazy/laziness, hardworking, selfish/selfishness/selflessness, trust/trustworthy/untrustworthy, values, standards, safer place.

In Study 1, to find surveys that specifically asked participants to compare people in the present to people at some point in the past, we also combined the above search terms with the following terms: compared, generation, today, Years ago, worse/better/same, more/less/same, past. We also searched for surveys that had the following tags in the Roper iPoll system: morality, civility, crime rate, young people, values. This search was conducted over several months in 2019 and 2020, before Roper iPoll transitioned to a new database and search interface, which may now return slightly different results.

A Note on the Calculation of the Grand Means in Study 1

There are two ways to compute the grand mean of the surveys included in Study 1, and each has a unique problem. One method is to weight the result of each survey by its sample size before averaging across surveys (the *weighted method*) and the other is to average the results across surveys without regard to the survey's sample size (the *unweighted method*). The problem

with the weighted method is that it can allow items with unusual wordings or unusual content to have an outsize influence on the grand mean simply because the survey containing those items happened to have had large N's. The problem with the unweighted method is that it allows items from surveys with very small Ns (whose results are less trustworthy) to have the same influence on the grand mean as do surveys with very large Ns (whose results are more trustworthy).

We used the unweighted method because, in the present case, the first of these problems is significant and the second of these problems is not. Specifically, as Tables S1 and S2 show, the items included in Study 1 differed quite dramatically in terms of their wording and their content (e.g., "Would you say, compared to the past, people of different races and ethnicities are now treated much more equally, a little more equally, a little less equally, much less equally, or that there has been no real change?" vs. "Compared with 20 years ago, has the rate of violent crime in the United States increased or decreased?"). It seemed important that conclusions about the general perception of moral decline not be overly influenced by a few unusual items that happened to be worded in unusual ways or that happened to focus on particular topics. In contrast, although N did differ across surveys, all Ns were quite substantial, which is to say that even the surveys with the smallest N's provided trustworthy results. When all results are trustworthy, then the unweighted method's problem is not a problem, but its strengths are still strengths. For these reasons, we used the unweighted method to calculate the grand means in Study 1.

With all this said, it is worth noting that the weighted and unweighted methods produced the same general result. In both cases, the majority of participants perceived moral decline (61.44% using the weighted approach and 84.18% using the unweighted approach).

Table S1: Archival Survey Questions (US Sample), Study 1

#	Source	Question	Year	N
1	Pew	(As I read a list of some problems, please tell me if you think the country is making progress, losing ground, or if things are about the	2008	1489
		same as they have been.)Low moral and ethical standardsDo you		
		think the country is making progress, losing ground, or are things		
		about the same as they have been when it comes tolow moral and		
		ethical standards?		
2	NBC	(For each of the decades I name, please tell me whether you feel the	1996	2003
	News/Wall	nation's morals and values were much higher in that decade than they		
	Street Journal	are now, somewhat higher than now, somewhat lower than now, or		
		much lower than they are now.) The 1960s		
3	NBC	(For each of the decades I name, please tell me whether you feel the	1996	2003
	News/Wall	nation's morals and values were much higher in that decade than they		
	Street Journal	are now, somewhat higher than now, somewhat lower than now, or		
		much lower than they are now.) The 1970s		
4	NBC	(For each of the decades I name, please tell me whether you feel the	1996	2003
	News/Wall	nation's morals and values were much higher in that decade than they		
	Street Journal	are now, somewhat higher than now, somewhat lower than now, or		
		much lower than they are now.) The 1980s		
5	Center for	(How strong would you say the US (United States) decline or	1996	2047
	Survey	improvement is in each of the following areasstrong decline,		
	Research,	moderate decline, holding steady, moderate improvement, or strong		
	University of	improvement?) American moral and ethical standards		
	Virginia			

6	NORC	(I'd like to ask you a few questions about civility in our society. By civility, I mean showing respect for the people you deal with. For example, respecting other people's opinions, being courteous, helping others, and showing good sportsmanship.)In general, when most Americans debate issues facing the country do you think they are more civil today compared to 10 years ago, less civil, or about as civil as they were 10 years ago?	2011	1006
7	Gallup	(I'm going to read you several more statements and ask you whether, in general, you agree or disagree.) Moral and ethical standards are declining so much in America these days that something drastic must be done.	1964	1564
8	Pew	(Now I'd like to ask some questions about some of the problems we face in this country today. For each problem I mention, please tell me how you think affecting this country today, and how much this problem affects you personally.)Do you think the problem oflow moral and ethical standards is about the same as it has been, that the country is making progress in this area, or that the country is losing ground?	1996	1204
9	NBC News/Wall Street Journal	(Over the past decade of 2000 to 2009, do you feel that America has gained ground, has stayed about the same, or has lost ground in each of the following areas?)Moral values	2009	1008
10	NBC News/Wall Street Journal	(Over the past decade of 2000 to 2009, do you feel that America has gained ground, has stayed about the same, or has lost ground in each of the following areas?)Treating one another with respect	2009	1008
11	Center for Survey Research, University of Virginia	(Please consider the following statements and tell me whether you completely agree, mostly agree, mostly disagree, or completely disagree with each statement.) In general, Americans lived more moral and ethical lives 50 years ago.	1996	2047

12	NBC News	(Thinking about where America stands today as compared to four years ago, for each of the following things, please tell me whether you think that things are better off, about the same, or worse off than they were four years ago.)Moral values and standards	2005	1007
13	NBC/Wall Street Journal	Compared to ten years ago, would you say that Americans now are more polite to each other or less polite to each other?	1999	1006
14	NORC	Compared with 10 years ago, would you say that when it comes tothe willingness of people to help each other, things in this country have generally gotten better, gotten worse, or stayed about the same? (If Better/Worse, ask:) Is that a lot better/worse or a little better/worse?	2011	1087
15	NORC	Compared with 10 years ago, would you say that when it comes tothe willingness of people to help each other, things in this country have generally gotten better, gotten worse, or stayed about the same? Is that a lot better/worse or a little better/worse?	2013	1008
16	Harris Survey	Compared with ten years ago, would you say morality in the United States is lower today, higher, or not changed much?	1971	1600
17	CBS News/New York Times	Considering just the moral climate of the country today, do you feel things in this country are generally going in the right direction or do you feel things have pretty seriously gotten off on the wrong track?	2004	885
18	Pew	Do you think that Americans used to treat each other with more respect and courtesy in the past, or is this just nostalgia for a past that never existed?	2002	2013
19	Parents Magazine Poll	Do you think that over the last few decades our society has become less honest and ethical in its behavior, more honest and ethical, or has there been no change in the extent to which people behave honestly and ethically?	1989	1000
20	Gallup	Generally speaking, do you think moral values have become stronger in the U.S. (United States) in the last twenty-five years, do you think they have become weaker or do you think they have stayed about the same?	1996	1001

21	Pew	Here is a list of things that may or may not be problems in our country. As I read each one, please tell me if you think it is a very big problem, a moderately big problem, a small problem, or not a problem at all. Moral decline.	2006	739
22	Time/Yankelov ich	Now here are some statements which represent some traditional American values. Will you tell me for each one whether you strongly believe in this statement, partially believe it or don't believe it. The state of morality in this country is bad and getting worse.	1976	951
23	Center for Survey Research and Analysis, University of Connecticut	Overall, would you say that the moral values in American society are improving, deteriorating, or aren't they changing all that much?	1997	1026
24	Gallup	Right now, do you think the state of moral values in this country as a whole is getting better or getting worse?	2019	1009
25	Gallup	Right now, do you think the state of moral values in this country as a whole is getting better or getting worse?	2018	1024
26	Gallup	Right now, do you think the state of moral values in this country as a whole is getting better or getting worse?	2017	1011
27	Gallup	Right now, do you think the state of moral values in this country as a whole is getting better or getting worse?	2016	1025
28	Gallup	Right now, do you think the state of moral values in this country as a whole is getting better or getting worse?	2015	1024
29	Gallup	Right now, do you think the state of moral values in this country as a whole is getting better or getting worse?	2014	1028
30	Gallup	Right now, do you think the state of moral values in this country as a whole is getting better or getting worse?	2013	1535
31	Gallup	Right now, do you think the state of moral values in this country as a whole is getting better or getting worse?	2012	1024
32	Gallup	Right now, do you think the state of moral values in this country as a whole is getting better or getting worse?	2011	1018

33	Gallup	Right now, do you think the state of moral values in this country as a	2010	1029
		whole is getting better or getting worse?		
34	Gallup	Right now, do you think the state of moral values in this country as a	2009	1015
		whole is getting better or getting worse?		
35	Gallup	Right now, do you think the state of moral values in this country as a	2008	1017
		whole is getting better or getting worse?		
36	Gallup	Right now, do you think the state of moral values in this country as a	2007	1003
		whole is getting better or getting worse?		
37	Gallup	Right now, do you think the state of moral values in this country as a	2006	1002
	_	whole is getting better or getting worse?		
38	Gallup	Right now, do you think the state of moral values in this country as a	2005	1005
	_	whole is getting better or getting worse?		
39	Gallup/CNN/U	Right now, do you think the state of moral values in this country as a	2004	1015
	SA Today	whole is getting better or getting worse?		
40	Gallup	Right now, do you think the state of moral values in this country as a	2004	1000
		whole is getting better or getting worse?		
41	Gallup	Right now, do you think the state of moral values in this country as a	2003	1005
		whole is getting better or getting worse?		
42	Gallup	Right now, do you think the state of moral values in this country as a	2002	1012
		whole is getting better or getting worse?		
43	Opinion	Some people say there has been a general letdown in ethical and moral	1964	1021
	Research	standards among the American people as a whole in recent years.		
	Corporation	Others say ethical and moral standards are as good as ever. Which do		
		you agree with?		
44	Time/Yankelov	The following are a number of criticisms that have been made in recent	1974	1238
	ich	years about American society. Will you tell me for each one how you		
		personally feel? The state of morals in this country are pretty bad and		
		getting worse.		
45	NBC	Thinking back to when you were growing up, would you say that the	1999	2011
	News/Wall	social and moral values in the United States were the same as today,		
	Street Journal	higher than today, or lower than today?		

46	Market	Thinking specifically about the state of the country's morals and	1999	800
	Strategies	values, do you feel things are generally going in the right direction, or		
		do you feel things have pretty seriously gotten off on the wrong track?		
47	NBC	Which of the following statements comes closest to expressing how	1996	2003
	News/Wall	you feel about the state of morals in this country at the present time		
	Street Journal	they are pretty bad and getting worse, they are pretty bad but getting		
		better, they are pretty good but getting worse, or they are pretty good		
40	NODG	and getting better?	1064	1075
48	NORC	Which of the statements on this card comes closest to expressing how	1964	1975
		you feel about the state of morals in this country at the present time?		
		They are pretty bad and getting worse, they are pretty bad but getting		
		better, they are pretty good but getting worse, they are pretty good and getting better		
49	NBC	Which one of the following statements comes closest to expressing	2004	1003
77	News/Wall	how you feel about the state of morals in this country at the present	2004	1003
	Street Journal	time?They are pretty bad and getting worse, they are pretty bad but		
		getting better, they are pretty good but getting worse, they are pretty		
		good and getting better		
50	YouGov - PTN	Thinking about the nation as a whole, do you think crimes motivated	2019	1500
		by hatred (racist, anti-religious, homophobic and anti-ethnic) over the		
		past 12 months are higher or lower compared to ten years ago?		
51	Economist -	Thinking about the nation as a whole, do you think the number of	2017	2692
	PTN	violent crime incidents (homicide, sexual assault, robbery, serious		
		assault) over the past 12 months is higher or lower compared to ten		
		years ago?		
52	Economist -	In the last year would you say crime in the country has increased,	2017	2692
	PTN	decreased, or stayed about the same?	2015	2.602
53	Economist -	Thinking about the nation as a whole, do you think the number of	2017	2692
	PTN	violent crime incidents (homicide, sexual assault, robbery, serious		
		assault) over the past 12 months is higher or lower compared to ten		
		years ago?		

54	YouGov - PTN	Compared with 20 years ago, has the rate of violent crime in the United States increased or decreased?	2014	1000
55	Kaiser Family Foundation	Compared with 20 years ago, has the rate of violent crime in the United States increased or decreased?	1996	1514
56	Gallup - PTN	Has the crime rate in the US increased, decreased, or stayed the same in the past 10 years?	1989	1235
57	Barna Research Group - PTN	Percentage of Americans who believe the values and morals of America are declining.	2013	2083
58	NBC News - PTN	Now I would like to read you several more statements about some of the social issues facing America. For each issue, please tell me whether you agree strongly, agree somewhat, disagree somewhat, or disagree strongly with that statement: traditional moral values have grown weaker and need to be strengthened	1993	1502
59	Marist	Do you think Americans overall are more respectful, less respectful, or about as respectful of each other as they were a few years ago?	2019	1084
60	NPR	From what you have read or heard, do you think, compared to 25 years ago, the per capita gun murder rate in the U.S. is higher, lower, or about the same?	2019	880
61	Economist	Compared with 20 years ago, has the number of gun crimes in America gone up, gone down or stayed the same?	2013	1000
62	Pew	(And compared to the past, have things gotten better, worse or stayed the same?)Being friendly and helpful toward their neighbors	2002	2013
63	Pew	(And compared to the past, have things gotten better, worse or stayed the same?)Being kind and considerate toward people with physical handicaps	2002	2013
64	Pew	(And compared to the past, have things gotten better, worse or stayed the same?)The problem of littering	2002	2013
65	Pew	(And compared to the past, have things gotten better, worse or stayed the same?)Treating African Americans with respect and courtesy	2002	2013
66	Pew	(And compared to the past, have things gotten better, worse or stayed the same?)Treating gay people with respect and courtesy	2002	2013

67	Pew	(And compared to the past, have things gotten better, worse or stayed the same?)Treating Hispanics with respect and courtesy	2002	2013
68	Pew	(And compared to the past, have things gotten better, worse or stayed the same?)Treating the elderly with respect and courtesy	2002	2013
69	Gallup	(Does the following word apply more to young people in their teens and 20s today or young people in that same age group 20 years ago?) Materialistic	1989	1249
70	Gallup	(Does the following word apply more to young people in their teens and 20s today or young people in that same age group 20 years ago?) Patriotic	1989	1249
71	Gallup	(Does the following word apply more to young people in their teens and 20s today or young people in that same age group 20 years ago?) Reckless	1989	1249
72	Gallup	(Does the following word apply more to young people in their teens and 20s today or young people in that same age group 20 years ago?) Selfish	1989	1249
73	CBS News	Compared to 10 years ago, do you think more people today are willing to take responsibility when they have done something wrong, fewer people today are willing to take responsibility when they have done something wrong, or hasn't this changed much in the past 10 years?	1994	871
74	Associated Press/Ipsos	Compared to 20 or 30 years ago, do you think people are more rude, less rude, or about the same?	2005	1001
75	NORC	Compared to 20 or 30 years ago, do you think people are more rude, less rude, or about the same?	2016	1004
76	Gallup	Compared to ten years ago, are people more honest, less honest, or about the same today?	1987	1005
77	Roper/US News & World Report	Compared to ten years ago, are people more honest, less honest, or about the same today?	1987	1005
78	LA Times	Do you believe that life today is getting better or worse in terms of morals?	1985	2308

79	Gallup	Do you believe that life today is getting better or worse in terms of: morals?	1968	1536
80	Washington Post/Harvard/K aiser	Do you think people in general lead as good lives honest and moral as they used to?	1998	1018
81	Roper/US News & World Report	Do you think people in general today are more honest and moral than they were in the 1950's, or less honest and moral than then, or about the same as they were in the 1950's?	1985	1003
82	Pew	Do you think people in general today lead as good lives - honest and moral - as they used to?	2002	2002
83	Ben Gaffin and Associates	Do you think people in general today lead as good liveshonest and moralas they used to?	1952	2987
84	Gallup	Do you think people in general today lead as good liveshonest and moralas they used to?	1965	2783
85	Gallup	Do you think people in general today lead as good liveshonest and moralas they used to?	1976	1538
86	Pew	Do you think people in general today lead as good liveshonest and moralas they used to?	2005	1505
87	Gallup	Do you think that people today are more willing or less willing to help each other than they used to be, say ten years ago?	1982	1729
88	Louis Harris and Associates	Do you think that people's motivation to work today is stronger or not as strong as it was ten years ago?	1980	1201
89	Gallup	Do you think the human race is getting better or worse from the standpoint of moral conduct?	1949	1500
90	NBC News/Wall Street Journal	For each of the decades I name, please tell me whether you feel the nation's morals and values were much higher in that decade than they are now, somewhat higher than now, somewhat lower than now, or much lower than they are now The 1950s	1996	2003
91	Barna Research Group	How have people's attitudes, lifestyles and behaviors changed in the last 10 years: moral values?	1993	687

92	NBC	In general, do you think people today are a lot more honest, somewhat	1996	504
		more honest, somewhat less honest, a lot less honest or about the same		
0.2	ND CN	as 20 years ago?	1005	1000
93	NBC News	In general, do you think people today are a lot more honest, somewhat more honest, somewhat less honest, a lot less honest or about the same as 20 years ago?	1995	1009
94	NBC News	In general, do you think people today are a lot more honest, somewhat more honest, somewhat less honest, a lot less honest or about the same as 20 years ago?	1996	504
95	Barna Report	When it comes to moral values, do you think things have gotten better, gotten worse, or stayed about the same compared to 10 years ago?	1993	1205
96	Barna Report	When it comes to people's selfishness, do you think things have gotten better, gotten worse, or stayed about the same compared to 10 years ago?	1993	1205
97	American Enterprise Institute	Would you say that people are more willing, less willing, or about as willing to help their neighbors as they were twenty-five years ago?	1981	1500
98	World Public Opinion - PTN	Thinking about the course of your lifetime, would you say, compared to the past, people of different races and ethnicities are now treated much more equally, a little more equally, a little less equally, much less equally, or that there has been no real change?	2008	1819
99	CBS News - PTN	In the last eight years, do you think crime has increased, decreased, or stayed about the same?	1989	1533
100	Associated Press	Compared to 20 or 30 years ago, do you think people are more rude, less rude, or about the same?	2016	1004
101	Associated Press	Compared to 20 or 30 years ago, do you think people are more rude, less rude, or about the same?	2005	NA
102	Pew	(Here is a list of things that may be problems in our country. As I read each one, please tell me if you think it is a very big problem, a moderately big problem, a small problem or not a problem at all.)Moral decline	2002	1501

103	LA Times	Generally speaking, would you say the nation is undergoing a period	1989	3583
		of moral improvement, or a period of moral decline?		
104	Roper	Here is a list of possible causes of some of our problems in this country. (Card shown respondent) Would you call off the ones you think are the major causes of our problems today? (Lack of good leadership, Permissiveness in the courts, Permissiveness of parents, Selfishness - people not thinking of others, Wrongdoing in	1982	2000
		government, Radical attempts to force change, Growing conservatism, Too much emphasis on money and materialism, Too much technology, A letdown in moral values, Too much commitment to other nations in the world, Too little interest in other nations in the world).		
105	LA Times	What do you think is the single most urgent problem facing this country today: crime, or education, or the environment, or foreign trade, or government spending, or inflation, or the moral decline of society, or unemployment, or the fear of war, or what? I could repeat those, if you wish. Is there another one of those problems you consider almost as important?	1989	2095
106	Newsweek - PTN	Do you think the United States is in a moral and spiritual decline?	1994	600
107	Knight Ridder - PTN	Do you think the United States is in a moral and spiritual decline?	1992	1387
108	Marist College	In general, do you believe moral values in this country are headed in the right direction or the wrong direction?	2009	2243
109	Public Religion Research Institute	Now, as I read some statements on a few different topics, please tell me if you completely agree, mostly agree, mostly disagree or completely disagree with each oneThe main cause of America's problems is moral decay.	2012	3003
110	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2004	1008

111	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2019	903
112	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2019	907
113	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2019	903
114	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2018	823
115	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2018	900
116	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2018	905

117	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2018	929
118		Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2018	900
119	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2018	905
120	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2018	900
121	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2018	902
122	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2018	901

123	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2018	900
124		Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2018	901
125	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2017	901
126	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2017	905
127	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2017	904
128	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2017	903

TIPP/Investor's	Okay, and generally speaking, how satisfied are you with the direction	2017	901
	satisfied, of flot at all satisfied?		
	Olyany and assessibly analysis there extinting described and year with the diseastion	2017	904
		2017	904
	satisfied, or not at all satisfied?		
		2017	904
	satisfied, or not at all satisfied?		
TIPP/Investor's		2017	909
Business	going in at this time in terms of morals and ethics?Very satisfied,		
Daily/Christian	somewhat satisfied, not very satisfied, not at all satisfied		
Science			
Monitor			
TIPP/Investor's	How satisfied are you with the direction that the country is going in at	2017	885
Business			
Daily/Christian			
Science			
Monitor			
TIPP/Investor's	In general, how satisfied are you with the direction that the country is	2016	934
	1 5 5		
	zemem. zmizna, nov verj zaviznea, nov av an zaviznea		
	Business Daily/Christian Science Monitor TIPP/Investor's Business Daily/Christian Science Monitor	Business Daily/Christian Science Monitor TIPP/Investor's Business Daily/Christian Science Monitor TIPP/Investor's Business Daily/Christian Science Monitor TIPP/Investor's Business Daily/Christian Science Monitor TIPP/Investor's Business Daily/Christian Science Monitor TIPP/Investor's Business Daily/Christian Science Monitor TIPP/Investor's Business Daily/Christian Science Monitor TIPP/Investor's Business Daily/Christian Science Monitor TIPP/Investor's Business Daily/Christian Science Monitor TIPP/Investor's Business Daily/Christian Science Monitor TIPP/Investor's Business Daily/Christian Science Monitor TIPP/Investor's Business Daily/Christian Science Monitor TIPP/Investor's Business Daily/Christian Science Monitor TIPP/Investor's Business Daily/Christian Science Monitor TIPP/Investor's Business Daily/Christian Science Monitor TIPP/Investor's Business Daily/Christian Science Monitor TIPP/Investor's Business Daily/Christian Science Monitor TIPP/Investor's Business Daily/Christian Science Monitor TIPP/Investor's Business Daily/Christian Science Monitor Tipp/Investor's Business Daily/Christian Science Monitor Tipp/Investor's Business Daily/Christian Science Monitor Tipp/Investor's Business Daily/Christian Science Monitor Tipp/Investor's Business Daily/Christian Science Monitor Tipp/Investor's Business Daily/Christian Science Monitor Tipp/Investor's Business Daily/Christian Science Monitor Tipp/Investor's Business Daily/Christian Science Monitor Tipp/Investor's Business Daily/Christian Science Monitor Tipp/Investor's Business Daily/Christian Science Monitor Tipp/Investor's Business Daily/Christian Science Monitor Tipp/Investor's Business Daily/Christian Science Monitor Tipp/Investor's Business Daily/Christian Science Monitor Tipp/Investor's Business Daily/Christian Science Monitor Tipp/Investor's Business Daily/Christian Science Monitor Tipp/Investor's Business Daily/Christian Science Monitor Tipp/Investor's Business Daily/Christian Science Monitor Tipp/Investor's Business Daily/Ch	Business Daily/Christian Science Monitor TIPP/Investor's Business Daily/Christian Science Monitor TIPP/Investor's Daily/Christian Science Monitor TIPP/Investor's Business Daily/Christian Science Monitor TIPP/Investor's Susiness Daily-Christian S

135	TIPP/Investor's Business Daily/Christian Science Monitor	How satisfied are you with the direction that the country is going in at this time in terms of morals and ethics?Very satisfied, somewhat satisfied, not very satisfied, not at all satisfied	2016	921
136	TIPP/Investor's Business Daily/Christian Science Monitor	How satisfied are you with the direction that the country is going in at this time in terms of morals and ethics?Very satisfied, somewhat satisfied, not very satisfied, not at all satisfied	2016	908
137	TIPP/Investor's Business Daily/Christian Science Monitor	How satisfied are you with the direction that the country is going in at this time in terms of morals and ethics?Very satisfied, somewhat satisfied, not very satisfied, not at all satisfied	2016	902
138	TIPP/Investor's Business Daily/Christian Science Monitor	How satisfied are you with the direction that the country is going in at this time in terms of morals and ethics?Very satisfied, somewhat satisfied, not very satisfied, not at all satisfied	2016	914
139	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2004	1008
140	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2004	938

141	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2004	1003
142	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2004	981
143	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2004	1003
144	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2004	958
145	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2004	920
146	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2003	905

147	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2003	903
148			2003	901
149			2003	901
150	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2003	901
151	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2003	919
152	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2003	906

153	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2003	928
154	TIPP/Investor's Business Daily/Christian Science Monitor	that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?		900
155	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2003	902
156	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2002	900
157	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2002	900
158	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2002	912

159	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2002	914
160	TIPP/Investor's Business Daily/Christian Science Monitor	that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?		903
161	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2002	924
162	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2002	900
163	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2002	906
164	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2002	900

165	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2002	921
166	TIPP/Investor's Business Daily/Christian Science Monitor	that the country is going in at this time in terms of morals and ethics?		902
167	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2002	906
168	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2001	921
169	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2001	920
170	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2001	925

171	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2001	909
172	TIPP/Investor's Business Daily/Christian Science Monitor Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?		2001	949
173	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2001	909
174	TIPP/Investor's Business Daily/Christian Science Monitor	Okay, and generally speaking, how satisfied are you with the direction that the country is going in at this time in terms of morals and ethics? Would you say you arevery satisfied, somewhat satisfied, not very satisfied, or not at all satisfied?	2001	909
175	Economist - PTN	The government has reported a steady decline in the rate of violent crime over the last twenty years. Do you think the government is correct and the rate of violent crime has decreased or do you think the rate of violent crime has remained the same or even increased over the past twenty years?	2019	1500
176	Kaiser Family Foundation - PTN	For each issue I read please tell me if you think it is a major problem facing our country, a minor problem or not a problem at all. Decline in moral values.	1999	3884

177	YouGov	The government has reported a steady decline in the rate of violent	2014	1000
		crime over the last twenty years. Do you think the government is		
		correct and the rate of violent crime has decreased or do you think the		
		rate of violent crime has remained the same or even increased over the		
		past twenty years?		

Table S2: Archival Survey Questions (non-US Sample), Study 1

#	Source	Question	Country	Year	N
		Do you believe that society as a whole is less moral today than			
1	Gallup	it was 50 years ago, or do you not believe that?	UK	1996	1000
		Here is a list of things that may or may not be problems in our			
		country. As I read each one, please tell me if you think it is a			
		very big problem, a moderately big problem, a small problem,			
2	Pew	or not a problem at all. Moral decline.	Brazil	2006	700
		Here is a list of things that may or may not be problems in our			
		country. As I read each one, please tell me if you think it is a			
		very big problem, a moderately big problem, a small problem,			
3	Pew	or not a problem at all. Moral decline.	Chile	2006	600
		Here is a list of things that may or may not be problems in our			
		country. As I read each one, please tell me if you think it is a			
		very big problem, a moderately big problem, a small problem,			
4	Pew	or not a problem at all. Moral decline.	Guatemala	2006	1005
		Here is a list of things that may or may not be problems in our			
		country. As I read each one, please tell me if you think it is a			
		very big problem, a moderately big problem, a small problem,			
5	Pew	or not a problem at all. Moral decline.	Kenya	2006	655
		Here is a list of things that may or may not be problems in our			
		country. As I read each one, please tell me if you think it is a			
	_	very big problem, a moderately big problem, a small problem,			
6	Pew	or not a problem at all. Moral decline.	Nigeria	2006	650
		Here is a list of things that may or may not be problems in our			
		country. As I read each one, please tell me if you think it is a			
1_	_	very big problem, a moderately big problem, a small problem,	South	• • • •	
7	Pew	or not a problem at all. Moral decline.	Africa	2006	800

			I	1	1
		Here is a list of things that may or may not be problems in our			
		country. As I read each one, please tell me if you think it is a			
		very big problem, a moderately big problem, a small problem,			
8	Pew	or not a problem at all. Moral decline.	India	2006	726
		Here is a list of things that may or may not be problems in our			
		country. As I read each one, please tell me if you think it is a			
		very big problem, a moderately big problem, a small problem,			
9	Pew	or not a problem at all. Moral decline.	Philippines	2006	1000
		Here is a list of things that may or may not be problems in our			
		country. As I read each one, please tell me if you think it is a			
		very big problem, a moderately big problem, a small problem,			
10	Pew	or not a problem at all. Moral decline.	South Korea	2006	600
		Compared with ten years ago, when Labour came to power, do			
		you think Britain is a fairer society, or less fair, or has there			
11	YouGov	been little change?	UK	2007	589
		If you compare the situation with 5 years ago, would you say			
		that the following types of discrimination are more common or			
		less common in our country? Discrimination on the basis of			
12	Eurobarometer	ethnic origin.	EU	2007	51718
		If you compare the situation with 5 years ago, would you say			
		that the following types of discrimination are more common or			
		less common in our country? Discrimination on the basis of			
13	Eurobarometer	gender.	EU	2007	51718
		If you compare the situation with 5 years ago, would you say			
		that the following types of discrimination are more common or			
		less common in our country? Discrimination on the basis of			
14	Eurobarometer	sexual orientation.	EU	2007	51718
		If you compare the situation with 5 years ago, would you say			
		that the following types of discrimination are more common or			
		less common in our country? Discrimination on the basis of			
15	Eurobarometer	age.	EU	2007	51718

		If you compare the situation with 5 years ago, would you say			
		that the following types of discrimination are more common or			
		less common in our country? Discrimination on the basis of			
16	Eurobarometer	religion or beliefs.	EU	2007	51718
10	Eurovaronicier	If you compare the situation with 5 years ago, would you say	EO	2007	31/10
		that the following types of discrimination are more common or			
		less common in our country? Discrimination on the basis of			
17	Eurobarometer	disability.	EU	2007	51718
1 /	Eurobarometer		EU	2007	31/16
	Mantack O Oninian	I am going to read out some statements. I would like you to tell			NI.
	Market & Opinion	me how strongly you agree or disagree with each. Young			No
1.0	Research International	people today do more for society and the community than their	1 117	2000	information
18	- PTN	parents' generation did.	UK	2000	included
		Here is a list of things that may be problems in our country. As			
		I read each one, please tell me if you think it is a very big			
10	T.	problem, a moderately big problem, a small problem, or not a		2002	700
19	Pew	problem at allmoral decline.	Angola	2002	780
		Here is a list of things that may be problems in our country. As			
		I read each one, please tell me if you think it is a very big			
		problem, a moderately big problem, a small problem, or not a			
20	Pew	problem at allmoral decline.	Argentina	2002	814
		Here is a list of things that may be problems in our country. As			
		I read each one, please tell me if you think it is a very big			
		problem, a moderately big problem, a small problem, or not a			
21	Pew	problem at allmoral decline.	Bangladesh	2002	689
		Here is a list of things that may be problems in our country. As			
		I read each one, please tell me if you think it is a very big			
		problem, a moderately big problem, a small problem, or not a			
22	Pew	problem at allmoral decline.	Bolivia	2002	782
		Here is a list of things that may be problems in our country. As			
		I read each one, please tell me if you think it is a very big			
		problem, a moderately big problem, a small problem, or not a			
23	Pew	problem at allmoral decline.	Brazil	2002	1000

		Here is a list of things that may be problems in our country. As			
		I read each one, please tell me if you think it is a very big			
		problem, a moderately big problem, a small problem, or not a			
24	Pew	problem at allmoral decline.	Britain	2002	501
	100	Here is a list of things that may be problems in our country. As	Dinam	2002	301
		I read each one, please tell me if you think it is a very big			
		problem, a moderately big problem, a small problem, or not a			
25	Pew	problem at allmoral decline.	Bulgaria	2002	514
23	1 CW	Here is a list of things that may be problems in our country. As	Duigaria	2002	314
		I read each one, please tell me if you think it is a very big			
		problem, a moderately big problem, a small problem, or not a			
26	Pew	problem at allmoral decline.	Canada	2002	500
20	100	Here is a list of things that may be problems in our country. As	Синици	2002	300
		I read each one, please tell me if you think it is a very big			
		problem, a moderately big problem, a small problem, or not a	Czech		
27	Pew	problem at allmoral decline.	Republic	2002	500
	10	Here is a list of things that may be problems in our country. As	repusite	2002	200
		I read each one, please tell me if you think it is a very big			
		problem, a moderately big problem, a small problem, or not a			
28	Pew	problem at allmoral decline.	France	2002	507
		Here is a list of things that may be problems in our country. As	1101100	2002	
		I read each one, please tell me if you think it is a very big			
		problem, a moderately big problem, a small problem, or not a			
29	Pew	problem at allmoral decline.	Germany	2002	1000
		Here is a list of things that may be problems in our country. As	j		
		I read each one, please tell me if you think it is a very big			
		problem, a moderately big problem, a small problem, or not a			
30	Pew	problem at allmoral decline.	Ghana	2002	702
		Here is a list of things that may be problems in our country. As			
		I read each one, please tell me if you think it is a very big			
		problem, a moderately big problem, a small problem, or not a			
31	Pew	problem at allmoral decline.	Guatemala	2002	500

		Here is a list of things that may be problems in our country. As			
		I read each one, please tell me if you think it is a very big			
		problem, a moderately big problem, a small problem, or not a			
32	Pew	problem at allmoral decline.	Honduras	2002	506
32	1 CW	Here is a list of things that may be problems in our country. As	Honduras	2002	300
		I read each one, please tell me if you think it is a very big			
		problem, a moderately big problem, a small problem, or not a			
33	Pew	problem at allmoral decline.	India	2002	2189
33	rew	Here is a list of things that may be problems in our country. As	Illula	2002	2109
		I read each one, please tell me if you think it is a very big			
34	Pew	problem, a moderately big problem, a small problem, or not a problem at allmoral decline.	Indonesia	2002	1017
34	rew		mdonesia	2002	1017
		Here is a list of things that may be problems in our country. As			
		I read each one, please tell me if you think it is a very big			
35	D	problem, a moderately big problem, a small problem, or not a problem at allmoral decline.	Tanler	2002	5018
33	Pew	1	Italy	2002	3018
		Here is a list of things that may be problems in our country. As			
		I read each one, please tell me if you think it is a very big			
26	D	problem, a moderately big problem, a small problem, or not a	I C	2002	700
36	Pew	problem at allmoral decline.	Ivory Coast	2002	708
		Here is a list of things that may be problems in our country. As			
		I read each one, please tell me if you think it is a very big			
27	D	problem, a moderately big problem, a small problem, or not a	т	2002	700
37	Pew	problem at allmoral decline.	Japan	2002	702
		Here is a list of things that may be problems in our country. As			
		I read each one, please tell me if you think it is a very big			
20	ъ	problem, a moderately big problem, a small problem, or not a	***	2002	6.50
38	Pew	problem at allmoral decline.	Kenya	2002	658
		Here is a list of things that may be problems in our country. As			
		I read each one, please tell me if you think it is a very big			
	_	problem, a moderately big problem, a small problem, or not a		2005	1000
39	Pew	problem at allmoral decline.	Lebanon	2002	1000

		Here is a list of things that may be problems in our country. As			
		I read each one, please tell me if you think it is a very big			
		problem, a moderately big problem, a small problem, or not a			
40	Pew	problem at allmoral decline.	Mali	2002	697
70	1 CW	Here is a list of things that may be problems in our country. As	IVIAII	2002	071
		I read each one, please tell me if you think it is a very big			
		problem, a moderately big problem, a small problem, or not a			
41	Pew	problem at allmoral decline.	Mexico	2002	996
41	rew	Here is a list of things that may be problems in our country. As	MEXICO	2002	990
		I read each one, please tell me if you think it is a very big			
		,			
42	Pew	problem, a moderately big problem, a small problem, or not a problem at allmoral decline.	Nicomio	2002	1000
42	rew	Here is a list of things that may be problems in our country. As	Nigeria	2002	1000
		I read each one, please tell me if you think it is a very big			
43	D	problem, a moderately big problem, a small problem, or not a problem at allmoral decline.	Pakistan	2002	2032
43	Pew		Pakistan	2002	2032
		Here is a list of things that may be problems in our country. As			
		I read each one, please tell me if you think it is a very big			
4.4	D	problem, a moderately big problem, a small problem, or not a	D	2002	711
44	Pew	problem at allmoral decline.	Peru	2002	711
		Here is a list of things that may be problems in our country. As			
		I read each one, please tell me if you think it is a very big			
1.5	n	problem, a moderately big problem, a small problem, or not a	D1 :1:	2002	700
45	Pew	problem at allmoral decline.	Philippines	2002	700
		Here is a list of things that may be problems in our country. As			
		I read each one, please tell me if you think it is a very big			
1.0	D	problem, a moderately big problem, a small problem, or not a	D 1 1	2002	7 00
46	Pew	problem at allmoral decline.	Poland	2002	500
		Here is a list of things that may be problems in our country. As			
		I read each one, please tell me if you think it is a very big			
	_	problem, a moderately big problem, a small problem, or not a		2005	1000
47	Pew	problem at allmoral decline.	Russia	2002	1002

		Here is a list of things that may be problems in our country. As			
		I read each one, please tell me if you think it is a very big			
		problem, a moderately big problem, a small problem, or not a	South		
48	Pew	problem at allmoral decline.	Africa	2002	700
70	1 CVV	Here is a list of things that may be problems in our country. As	7 Hiioa	2002	700
		I read each one, please tell me if you think it is a very big			
		problem, a moderately big problem, a small problem, or not a			
49	Pew	problem at allmoral decline.	South Korea	2002	719
77	1 CVV	Here is a list of things that may be problems in our country. As	South Rolea	2002	/1/
		I read each one, please tell me if you think it is a very big			
		problem, a moderately big problem, a small problem, or not a			
50	Pew	problem at allmoral decline.	Senegal	2002	710
30	1 CVV	Here is a list of things that may be problems in our country. As	Senegar	2002	710
		I read each one, please tell me if you think it is a very big			
		problem, a moderately big problem, a small problem, or not a			
51	Pew	problem at allmoral decline.	Slovakia	2002	500
31	100	Here is a list of things that may be problems in our country. As	Siovakia	2002	300
		I read each one, please tell me if you think it is a very big			
		problem, a moderately big problem, a small problem, or not a			
52	Pew	problem at allmoral decline.	Tanzania	2002	720
32	1 CW	Here is a list of things that may be problems in our country. As	Tunzama	2002	720
		I read each one, please tell me if you think it is a very big			
		problem, a moderately big problem, a small problem, or not a			
53	Pew	problem at allmoral decline.	Turkey	2002	1005
	10,,	Here is a list of things that may be problems in our country. As	l	2002	1002
		I read each one, please tell me if you think it is a very big			
		problem, a moderately big problem, a small problem, or not a			
54	Pew	problem at allmoral decline.	Uganda	2002	1008
-		Here is a list of things that may be problems in our country. As	- 8		
		I read each one, please tell me if you think it is a very big			
		problem, a moderately big problem, a small problem, or not a			
55	Pew	problem at allmoral decline.	Ukraine	2002	500

		Here is a list of things that may be problems in our country. As			
		I read each one, please tell me if you think it is a very big			
		problem, a moderately big problem, a small problem, or not a			
56	Pew	problem at allmoral decline.	Uzbekistan	2002	700
		Here is a list of things that may be problems in our country. As			
		I read each one, please tell me if you think it is a very big			
		problem, a moderately big problem, a small problem, or not a			
57	Pew	problem at allmoral decline.	Venezuela	2002	700
		The Labour government came to power in 1997. With that in			No
		mind, do you agree or disagree with the following statement?			information
58	ICM/Guardian	People have become more selfish about money.	UK	2006	included

Table S3: Archival Survey Questions (US Sample) and Results, Study 4

	Source	Overtion	Response	Years	N	b	\mathbb{R}^2	% of 89% HDI in ROPE
	Source	Question How would you rate the overall	options Excellent [4],	rears	IN	D	K ²	KOPE
		state of moral values in this	Good [3], Only					
1	Gallup	country today?	Fair [2], Poor [1]	2002-2020	20,863	-0.006	0.002	100
1	Ganup	Next, we'd like to know how you feel about the state of the nation in each of the following areas. For each one, please say whether you are very satisfied, somewhat satisfied, somewhat dissatisfied or very dissatisfied. If you don't have enough information about a particular subject to rate it, just say so. How about the moral	Very satisfied [4], Somewhat satisfied [3], Somewhat dissatisfied [2], Very dissatisfied	2001-2008,	20,003	-0.000	0.002	100
2	Gallup	and ethical climate?	[1]	2012-2020	17,015	-0.01	0.008	100
		Which of the following things, if any, have you, personally, done in the past 12 months? How about Donated money to		2001, 2003, 2005, 2008, 2009a, 2009b, 2013, 2017,				
3	Gallup	any other charitable cause	Yes [1], No [0]	2020	9,222	-0.02	0.002	100
		Which of the following things, if any, have you, personally, done in the past 12 months?		2001, 2003, 2005, 2008, 2013, 2017,				
4	Gallup	Given blood	Yes [1], No [0]	2020	7,131	-0.01	0.001	100

		Which of the following things,		2001, 2003,				
		if any, have you, personally,		2005, 2008,				
		done in the past 12 months?		2009a, 2009b,				
		Volunteered your time to any		2013, 2017,				
5	Gallup	other charitable cause	Yes [1], No [0]	2020	9,222	0.006	0.0003	100
		Does your supervisor always						
		create an environment that is		2008, 2009,				
		trusting and open, or not?		2010, 2011,				
		(asked only of those with a job		2012, 2013,				
6	Gallup	and a supervisor)	Yes [1], No [0]	2014	957,762	0.02	0.0001	100
		Do you feel safe walking alone		2008, 2009,				
		at night in the city or area		2010, 2011,				
7	Gallup	where you live?	Yes [1], No [0]	2012, 2013	1,774,388	0.01	0.00005	100
		On a five-point scale, where 5						
		means strongly agree and 1						
		means strongly disagree, please						
		rate your level of agreement	1 [strongly					
		with the following items. You	disagree] - 5					
8	Gallup	always feel safe and secure.	[strongly agree]	2014-2017	691,671	0.001	0.000001	100
		Have you done any of the						
		following in the past month?						
		How about volunteered your						
9	Gallup	time to an organization?	Yes [1], No [0]	2007-2019	12,126	-0.02	0.001	100
		Within the last 12 months, have						
		you had money or property						
		stolen from you or another						
10	Gallup	household member?	Yes [1], No [0]	2006-2019	12,561	0.002	0.000007	100

		Now, please think about						
		yesterday, from the morning						
		until the end of the day. Think						
		about where you were, what						
		you were doing, who you were						
		with, and how you felt. Were						
		you treated with respect all day						
11	Gallup	yesterday?	Yes [1], No [0]	2006-2019	14,255	0.009	0.0002	100
	1	Do you feel safe walking alone						
		at night in the city or area						
12	Gallup	where you live?	Yes [1], No [0]	2006-2019	12,505	-0.02	0.0007	100
		If you were in trouble, do you						
		have relatives or friends you						
		can count on to help you						
		whenever you need them, or		2006, 2008-				
13	Gallup	not?	Yes [1], No [0]	2019	12,935	-0.04	0.004	100
		Please tell me which, if any, of						
		these incidents have happened						
		to you or your household						
		within the last twelve months?						
		Your house or apartment						
14	Gallup	broken into.	Yes [1], No [0]	2000-2019	19,348	-0.004	0.00006	100
		Within the past 12 months,						
		have you been assaulted or						
15	Gallup	mugged?	Yes [1], No [0]	2015-2019	4,118	-0.11	0.002	87.59
		Next, I'm going to read some						
		things people do because of						
		their concern over crime. Please						
		tell me which, if any, of these						
		things you, yourself, do or have		2000, 2001,				
		done. Keep a dog for		2002, 2003,				
16	Gallup	protection.	Yes [1], No [0]	2005, 2007	6,064	-0.004	0.00002	100

		Have you done any of the						
		following in the past month?						
		How about helped a stranger or						
		someone you didn't know who						
17	Gallup	needed help?	Yes [1], No [0]	2007-2019	12,126	0.0009	0.000002	100
1 /	Ganup	1	1 cs [1], No [0]	2007-2019	12,120	0.0009	0.000002	100
		Next, I'm going to read some						
		things people do because of						
		their concern over crime. Please						
		tell me which, if any, of these						
		things you, yourself, do or have		2000 2001				
		done. Avoid going to certain		2000, 2001,				
4.0	G 11	places or neighborhoods you	** 543 3 * 503	2002, 2003,	6.064	0.04		400
18	Gallup	might otherwise want to go to.	Yes [1], No [0]	2005, 2007	6,064	-0.01	0.0002	100
		Next, I'm going to read some						
		things people do because of						
		their concern over crime. Please						
		tell me which, if any, of these						
		things you, yourself, do or have		2000, 2001,				
		done. Carry mace or pepper		2002, 2003,				
19	Gallup	spray.	Yes [1], No [0]	2005, 2007	6,064	-0.03	0.0006	100
		Next, I'm going to read some						
		things people do because of						
		their concern over crime. Please						
		tell me which, if any, of these						
		things you, yourself, do or have		2000, 2001,				
		done. Had a burglar alarm		2002, 2003,				
20	Gallup	installed in your home.	Yes [1], No [0]	2005, 2007	6,064	0.06	0.004	100

		Next, I'm going to read some						
		things people do because of						
		their concern over crime. Please						
		tell me which, if any, of these		2000, 2001,				
		things you, yourself, do or have		2002, 2003,				
21	Gallup	done. Carry a knife for defense.	Yes [1], No [0]	2005, 2007	6,064	0.03	0.001	100
		Next, I'm going to read some						
		things people do because of						
		their concern over crime. Please						
		tell me which, if any, of these		2000, 2001,				
		things you, yourself, do or have		2002, 2003,				
22	Gallup	done. Carry a gun for defense.	Yes [1], No [0]	2005, 2007	6,064	0.005	0.00002	100
		Next, I'm going to read some						
		things people do because of						
		their concern over crime. Please						
		tell me which, if any, of these						
		things you, yourself, do or have						
		done. Bought a gun for		2000, 2001,				
		protection of yourself or your		2002, 2003,				
23	Gallup	home.	Yes [1], No [0]	2005, 2007	6,064	-0.004	0.00002	100
		Have you, personally, EVER						
		been the victim of a crime						
		where you were physically						
		harmed, or threatened with						
24	Gallup	physical harm?	Yes [1], No [0]	2000, 2011	2,024	-0.02	0.001	100

		Next, I'm going to read a list of						
		problems facing the country.						
		For each one, please tell me if						
		you personally worry about this						
		problem a great deal, a fair						
		amount, only a little or not at	Great deal [4],					
		all? First, how much do you	fair amount [3],					
		personally worry about crime	only a little [2],	2001-2008,				
25	Gallup	and violence?	not at all [1]	2010-2020	18,789	-0.005	0.001	100
23	Garrup	Please tell me which, if any, of		2010-2020	10,707	-0.003	0.001	100
		these incidents have happened						
		to you or your household						
		within the last twelve months?						
		You or another household						
		member had your computer or						
		smartphone hacked and the						
		information stolen by		2003-2011,				
26	Callyn		Vog [1] No [0]	2003-2011,	10 154	0.06	0.005	100
26	Gallup	unauthorized persons.	Yes [1], No [0]	2014	10,154	0.06	0.003	100
		Please tell me which, if any, of						
		these incidents have happened						
		to you or your household						
		within the last twelve months?						
		You or another household						
		member had information from a						
		credit card used at a store stolen						
27	Gallup	by computer hackers.	Yes [1], No [0]	2014-2016	3,049	-0.007	0.000005	100

		Please tell me which, if any, of these incidents have happened to you or your household						
		within the last twelve months?						
		You or another household						
		member had personal, credit						
20	C 11	card or financial information	37 [1] 37 [0]	2017 2010	2 000	0.05	0.0002	100
28	Gallup	stolen by computer hackers	Yes [1], No [0]	2017-2019	3,089	-0.05	0.0003	100
		Please tell me which, if any, of						
		these incidents have happened						
		to you or your household within the last twelve months?						
		You or another household		2009, 2010,				
		member was the victim of		2011, 2013,				
29	Gallup	identity theft.	Yes [1], No [0]	2015-2019	9,212	0.06	0.007	100
		Please tell me which, if any, of						
		these incidents have happened						
		to you or your household						
		within the last twelve months?		2000, 2002-				
		You or another household		2011, 2013-				
30	Gallup	member was sexually assaulted.	Yes [1], No [0]	2019	18,337	0.01	0.0003	100
		Please tell me which, if any, of						
		these incidents have happened						
		to you or your household						
		within the last twelve months?						
		You or another household		2000 2011				
2.1	C - 11 ·	member mugged or physically		2000-2011,	10.240	0.000	0.0002	100
31	Gallup	assaulted.	Yes [1], No [0]	2013-2019	19,348	-0.008	0.0003	100

		Please tell me which, if any, of						
		these incidents have happened						
		to you or your household						
		within the last twelve months?						
		Money or property taken from						
		you or another household						
		member by force, with gun,		2000 2011				
22	C - 11	knife, weapon or physical	M [1] N - [0]	2000-2011,	10.240	0.002	0.00001	100
32	Gallup	attack, or by threat of force.	Yes [1], No [0]	2013-2019	19,348	-0.002	0.00001	100
		Please tell me which, if any, of						
		these incidents have happened						
		to you or your household						
		within the last twelve months?						
		A home, car, or property owned		2000 2011				
	- 44	by you or another household		2000-2011,				
33	Gallup	member vandalized.	Yes [1], No [0]	2013-2019	19,348	-0.008	0.0003	100
		Please tell me which, if any, of						
		these incidents have happened						
		to you or your household						
		within the last twelve months?						
		A car owned by you or another		2000-2011,				
34	Gallup	household member stolen.	Yes [1], No [0]	2013-2019	19,348	-0.02	0.001	100
		Please tell me which, if any, of						
		these incidents have happened						
		to you or your household						
		within the last twelve months?						
		Money or property stolen from						
		you or another member of your		2000-2011,				
35	Gallup	household.	Yes [1], No [0]	2013-2019	19,348	0.006	0.0002	100

		How often do you, yourself,						
		worry about the following						
		things frequently,	72143					
		occasionally, rarely or never?	Frequently [4],					
		How about Having your	Occasionally [3],					
		email, passwords or electronic	Rarely [2], Never					
36	Gallup	records hacked into?	[1]	2014, 2016	2,065	0.01	0.0001	100
		How often do you, yourself,						
		worry about the following						
		things frequently,						
		occasionally, rarely or never?						
		How about Having the credit	Frequently [4],					
		card information you have used	Occasionally [3],					
		at stores stolen by computer	Rarely [2], Never					
37	Gallup	hackers?	[1]	2014-2016	3,080	-0.02	0.0001	100
		How often do you, yourself,						
		worry about the following						
		things frequently,						
		occasionally, rarely or never?						
		How about Having your	Frequently [4],					
		personal, credit card, or	Occasionally [3],					
		financial information stolen by	Rarely [2], Never					
38	Gallup	computer hackers?	[1]	2017-2019	3,089	0.04	0.001	100
		How often do you, yourself,						
		worry about the following						
		things frequently,	Frequently [4],					
		occasionally, rarely or never?	Occasionally [3],	2009, 2010,				
		How about Being a victim of	Rarely [2], Never	2011, 2013,				
39	Gallup	identity theft?	[1]	2015-2019	9,212	0.003	0.00007	100

		How often do you, yourself,						
		worry about the following						
		things frequently,	Frequently [4],					
		occasionally, rarely or never?	Occasionally [3],					
		How about Being a victim of	Rarely [2], Never	2001-2011,				
40	Gallup	terrorism?	[1]	2013-2019	18,336	-0.02	0.01	100
		How often do you, yourself,						
		worry about the following						
		things frequently,	Frequently [4],					
		occasionally, rarely or never?	Occasionally [3],	2000, 2001,				
		How about Being the victim	Rarely [2], Never	2003-2011,				
41	Gallup	of a hate crime?	[1]	2013-2019	18,346	0.01	0.005	100
		How often do you, yourself,						
		worry about the following						
		things frequently,	Frequently [4],					
		occasionally, rarely or never?	Occasionally [3],	2000, 2001,				
		How about Being attacked	Rarely [2], Never	2003-2011,				
42	Gallup	while driving your car?	[1]	2013-2019	18,346	-0.008	0.002	100
		How often do you, yourself,						
		worry about the following						
		things frequently,						
		occasionally, rarely or never?	Frequently [4],					
		How about Having a school-	Occasionally [3],					
		aged child of yours physically	Rarely [2], Never	2000-2011,				
43	Gallup	harmed while attending school?	[1]	2013-2019	19,348	-0.005	0.0008	100
		How often do you, yourself,						
		worry about the following						
		things frequently,						
		occasionally, rarely or never?	Frequently [4],					
		How about Being assaulted	Occasionally [3],					
		or killed by a coworker or other	Rarely [2], Never	2000-2011,				
44	Gallup	employee where you work?	[1]	2013-2019	19,348	0.001	0.0001	100

		How often do you, yourself, worry about the following						
		things frequently,	Frequently [4],					
		occasionally, rarely or never?	Occasionally [3],					
		How about Having your car	Rarely [2], Never	2000-2011,				
45	Gallup	stolen or broken into?	[1]	2013-2019	19,348	-0.005	0.0007	100
	1	How often do you, yourself,						
		worry about the following						
		things frequently,	Frequently [4],					
		occasionally, rarely or never?	Occasionally [3],					
		How about Being sexually	Rarely [2], Never	2000-2011,		-		
46	Gallup	assaulted?	[1]	2013-2019	19,796	0.0004	0.000005	100
		How often do you, yourself,						
		worry about the following						
		things frequently,						
		occasionally, rarely or never?	Frequently [4],					
		How about Your home being	Occasionally [3],					
		burglarized when you are not	Rarely [2], Never	2000-2011,				
47	Gallup	there?	[1]	2013-2019	19,796	-0.004	0.0006	100
		How often do you, yourself,						
		worry about the following						
		things frequently,	77 .1 .547					
		occasionally, rarely or never?	Frequently [4],					
		How about Your home being	Occasionally [3],	2000 2011				
40	C 11	burglarized when you are	Rarely [2], Never	2000-2011,	10.706	0.002	0.00000	100
48	Gallup	there?	[1]	2013-2019	19,796	-0.002	0.00008	100
		How often do you, yourself,						
		worry about the following things frequently,	Emaguantly [4]					
		occasionally, rarely or never?	Frequently [4], Occasionally [3],					
		How about Getting	Rarely [2], Never	2000-2011,				
49	Gallup	murdered?	[1]	2000-2011,	19,796	0.004	0.0006	100
77	Janup	muracicu:	[1]	2013-2019	12,720	0.004	0.0000	100

		How often do you, yourself,						
		worry about the following	Frequently [4],					
		things frequently,	Occasionally [3],					
		occasionally, rarely or never?	Rarely [2], Never	2000-2011,				
50	Gallup	How about Getting mugged?	[1]	2013-2019	19,796	0.001	0.00007	100
		Overall, how would you						
		describe the problem of crime	Extremely [5].					
		in the area where you live is	Very [4],					
		it extremely serious, very	Somewhat [3],	2000, 2003-				
		serious, moderately serious, not	Not too [2], Not	2011, 2013-				
51	Gallup	too serious or not serious at all?	at all [1]	2019	17,819	0.002	0.0001	100
		Overall, how would you						
		describe the problem of crime	Extremely [5].					
		in the United States is it	Very [4],					
		extremely serious, very serious,	Somewhat [3],	2000, 2003-				
		moderately serious, not too	Not too [2], Not	2011, 2013-		-		
52	Gallup	serious or not serious at all?	at all [1]	2019	18,025	0.0002	0.000002	100
				1965, 1967,				
				1968, 1972,				
				1975, 1977,				
				1979, 1981,				
				1982, 1983,				
				1989, 1990,				
				1992, 1993,				
		Is there any area near where		1994, 1996,				
		you live that is, within a mile		1997, 2000-				
		where you would be afraid to		2011, 2013-				
53	Gallup	walk alone at night?	Yes [1], No [0]	2019	37,882	-0.006	0.002	100

54	General Social Survey	Now I'm going to read you a list of statements that might or might not describe your main job. Please tell me whether you strongly agree, agree, disagree, or strongly disagree with each of these statements. I. At the place where I work, I am treated with respect	Strongly agree [5], Agree [4], Neither agree nor disagree [3], Disagree [2], Strongly disagree [1]	2002, 2006, 2010, 2014, 2018	7,301	-0.004	0.001	100
55	General Social Survey	Would you say that most of the time people try to be helpful, or that they are mostly just looking out for themselves?	Helpful [1], Depends [2], Looking out for self [3]	1972, 1973, 1975, 1976, 1978, 1980, 1983, 1984, 1986, 1987, 1988, 1990, 1991, 1993, 1994, 1996, 1998, 2000, 2002, 2004, 2006, 2008, 2010, 2012, 2014, 2016, 2018	41,009	0.002	0.0006	100
56	General Social Survey	Please tell me whether you strongly agree, agree, neither agree nor disagree, disagree, or strongly disagree with the following statements: A. People should be willing to help others who are less fortunate	Strongly agree [5], Agree [4], Neither agree nor disagree [3], Disagree [2], Strongly disagree [1]	2002, 2004, 2012, 2014	5,248	0.001	0.00006	100

		Now I'm going to read you						
		another list of statements about						
		your main job. For each, please						
		tell me if the statement is very						
		true, somewhat true, not too	Vary true [4]					
			Very true [4], Somewhat true					
		true, or not at all true with		2002 2006				
	General	respect to the work you do.	[3], Not too true	2002, 2006,				
	Social	N. The people I work with can	[2], Not at all true	2010, 2014,		0.004	0.0004	400
57	Survey	be relied on when I need help		2018	7,235	-0.001	0.0001	100
			More than once a					
			week [6], Once a					
			week [5], Once a					
			month [4], At					
		During the past 12 months, how	least 2-3 times in					
		often have you done each of the	the past year [3],					
	General	following things:	Once in the past					
	Social	D. Allowed a stranger to go	year [2], Not at	2002, 2004,				
58	Survey	ahead of you in line	all [1]	2012, 2014	4,916	0.003	0.0002	100
	•	·	More than once a					
			week [6], Once a					
			week [5], Once a					
		During the past 12 months, how	month [4], At					
		often have you done each of the	least 2-3 times in					
		following things:	the past year [3],					
	General	G. Offered your seat on a bus	Once in the past					
	Social	or in a public place to a stranger	year [2], Not at	2002, 2004,				
59					5 138	0.0006	0.000006	100
59	Survey	who was standing	all [1]	2012, 2014	5,138	0.0006	0.000006	100

			More than once a					
			week [6], Once a					
			week [5], Once a					
		During the past 12 months, how	month [4], At					
		often have you done each of the	least 2-3 times in					
		following things:						
	General		the past year [3],					
		I. Carried a stranger's	Once in the past	2002 2004				
(0	Social	belongings, like groceries, a	year [2], Not at	2002, 2004,	5 157	0.002	0.0001	100
60	Survey	suitcase, or shopping bag	all [1]	2012, 2014	5,157	0.003	0.0001	100
			More than once a					
			week [6], Once a					
			week [5], Once a					
			month [4], At					
			least 2-3 times in					
		During the past 12 months, how	the past year [3],					
	General	often have you done each of the	Once in the past					
	Social	following things:	year [2], Not at	2002, 2004,				
61	Survey	J. Given directions to a stranger	all [1]	2012, 2014	4,978	-0.001	0.003	100
			More than once a					
			week [6], Once a					
			week [5], Once a					
			month [4], At					
			least 2-3 times in					
		During the past 12 months, how	the past year [3],					
	General	often have you done each of the	Once in the past					
	Social	following things:	year [2], Not at	2002, 2004,				
62	Survey	A. Donated blood	all [1]	2012, 2014	5,257	-0.01	0.004	100

	l		3.6 .1	l	1		1	
			More than once a					
			week [6], Once a					
			week [5], Once a					
			month [4], At					
		During the past 12 months, how	least 2-3 times in					
		often have you done each of the	the past year [3],					
	General	following things:	Once in the past					
	Social	B. Given food or money to a	year [2], Not at	2002, 2004,				
63	Survey	homeless person	all [1]	2012, 2014	5,091	0.01	0.002	100
05	Burvey	nomeress person	More than once a	2012, 2011	3,071	0.01	0.002	100
			week [6], Once a					
			week [5], Once a					
			month [4], At					
		Dyning the past 12 months have	least 2-3 times in					
		During the past 12 months, how	_					
		often have you done each of the	the past year [3],					
	General	following things:	Once in the past	•				
	Social	C. Returned money to a cashier	year [2], Not at	2002, 2004,				
64	Survey	after getting too much change	all [1]	2012, 2014	5,181	-0.02	0.01	100
			More than once a					
			week [6], Once a					
			week [5], Once a					
			month [4], At					
		During the past 12 months, how	least 2-3 times in					
		often have you done each of the	the past year [3],					
	General	following things:	Once in the past					
	Social	E. Done volunteer work for a	year [2], Not at	2002, 2004,				
65	Survey	charity	all [1]	2012, 2014	5,084	0.005	0.0003	100

			More than once a					
		During the past 12 months, how	week [6], Once a					
		often have you done any of the	week [5], Once a					
		following things for people you	month [4], At					
		know personally, such as	least 2-3 times in					
		relatives, friends, neighbors or	the past year [3],					
	General	other acquaintances?	Once in the past					
	Social	B. Lent quite a bit of money to	year [2], Not at	2002, 2004,				
66	Survey	another person	all [1]	2012, 2014	4,041	-0.02	0.005	100
			More than once a					
			week [6], Once a					
			week [5], Once a					
		During the past 12 months, how	month [4], At					
		often have you done each of the	least 2-3 times in					
		following things:	the past year [3],					
	General	K. Let someone you didn"t	Once in the past					
	Social	know well borrow a item of	year [2], Not at	2002, 2004,				
67	Survey	some value like dishes or tools.	all [1]	2012, 2014	5,198	-0.004	0.0003	100
			More than once a					
			week [6], Once a					
			week [5], Once a					
		During the past 12 months, how	month [4], At					
		often have you done each of the	least 2-3 times in					
		following things:	the past year [3],					
	General	H. Looked after a person's	Once in the past					
	Social	plants, mail, or pets while they	year [2], Not at	2002, 2004,				
68	Survey	were away	all [1]	2012, 2014	5,149	-0.01	0.002	100

		The following are things that you may experience in your	Many times a day [6], Every day [5], Most days [4], Some days					
		daily life. Please tell me how	[3], Once in a					
	General	often these occur.	while [2], Never	2002 2004				
60	Social	A. I feel a selfless caring for	or almost never	2002, 2004,	5 151	0.0002	0.0000004	100
69	Survey	others. Please tell me whether you	[1]	2012, 2014	5,151	0.0002	0.0000004	100
		strongly agree, agree, neither	Strongly agree					
		agree nor disagree, disagree, or	[5], Agree [4],					
		strongly disagree with the	Neither agree nor					
		following statements:	disagree [3],					
	General	C. Personally assisting people	Disagree [2],					
	Social	in trouble is very important to	Strongly disagree	2002, 2004,				
70	Survey	me	[1]	2012, 2014	5,247	0.005	0.001	100
				1973, 1974,				
				1976, 1977,				
				1980, 1982,				
				1984, 1985,				
				1987, 1988,				
				1990, 1991, 1993, 1994,				
				1995, 1994,				
				2000, 2002,				
		Is there any area right around		2004, 2006,				
	General	herethat is, within a mile		2008, 2010,				
	Social	where you would be afraid to		2012, 2014,				
71	Survey	walk alone at night?	Yes [1], No [0]	2016, 2018	39,441	-0.01	0.005	100

			Often [4],					
	General		Sometimes [3],					
	Social	Other people take credit for my	Rarely [2], Never					
72	Survey	work or ideas.	[1]	2004, 2012	2,931	0.03	0.008	100
		D. People at work treat me in a						
		manner that puts me down or	Often [4],					
	General	address me in unprofessional	Sometimes [3],					
	Social	terms, either publicly or	Rarely [2], Never					
73	Survey	privately.	[1]	2004, 2012	2,937	0.006	0.0008	100
			Often [4],					
	General	H. People at work throw things,	Sometimes [3],					
	Social	slam doors, or hit objects when	Rarely [2], Never					
74	Survey	they are upset with me.	[1]	2004, 2012	2,942	-0.003	0.0003	100
			Often [4],					
	General		Sometimes [3],					
	Social	I. People at work shout or yell	Rarely [2], Never					
75	Survey	at me in a hostile manner.	[1]	2004, 2012	2,940	0.006	0.001	100
			Strongly agree					
			[4], Agree [3],					
	General		Disagree [2],					
	Social	M. At work, people are treated	Strongly disagree					
76	Survey	with respect.	[1]	2004, 2012	2,939	-0.006	0.001	100
			Strongly agree					
		N. In my workplace, people	[4], Agree [3],					
	General	"look the other way" when	Disagree [2],					
	Social	others are threatened,	Strongly disagree					
77	Survey	intimidated, or put down.	[1]	2004, 2012	2,887	0.06	0.09	100

				1072 1072				
				1972, 1973,				
				1975, 1976,				
				1980, 1983,				
				1984, 1986,				
				1987, 1988,				
				1990, 1991,				
				1993, 1994,				
				1996, 1998,				
		Generally speaking, would you	Can trust [3],	2000, 2002,				
	General	say that people can be trusted	Depends [2],	2004, 2006,				
	Social	or that you can't be too careful	Can't be too	2008, 2010,				
78	Survey	in dealing with people?	careful [1]	2012, 2014	41,258	-0.006	0.008	100
		Now, I'm going to ask you	L J	-) -	,			
		about various events and						
		conditions that happen to						
		people. I'm interested in those						
		that happened to you during the						
		last 12 months, that is since						
		(CURRENT MONTH),						
		(1990/2003). As I ask you						
		about the specific events, please						
		think carefully, so I can record						
		things accurately.						
		F. Next, did any of the						
		following criminal or legal						
		events occur to you since						
		(CURRENT MONTH),						
	General	(1990/2003)						
	Social	1. A robbery (e.g. a mugging or						
79	Survey	stick-up).	1 = yes, 2 = no	1991, 2004	2,341	0.0002	-0.0004	100

			More than once a					
			week					
		During the past 12 months, how	[6], Once a week					
		often have you done any of the	[5], Once a month					
		following things for people you	[4], At least two					
		know personally, such as	or three times in					
		relatives, friends, neighbors or	the past year [3],					
		other acquaintances?	Once in the past					
	General	A. Helped someone outside of	year [2], Not at					
	Social	your household with	all in the past	2002, 2004,				
80	Survey	housework or shopping	year [1]	2012, 2014	5,042	-0.05	0.03	100
			More than once a					
			week					
		During the past 12 months, how	[6], Once a week					
		often have you done any of the	[5], Once a month					
		following things for people you	[4], At least two					
		know personally, such as	or three times in					
		relatives, friends, neighbors or	the past year [3],					
		other acquaintances?	Once in the past					
	General	C. Spent time talking with	year [2], Not at					
	Social	someone who was a bit down	all in the past	2002, 2004,				
81	Survey	or depressed	year [1]	2012, 2014	5,043	-0.02	0.004	100

		T	3.6					1
			More than once a					
			week					
			[6], Once a week					
		During the past 12 months, how	[5], Once a month					
		often have you done any of the	[4], At least two					
		following things for people you	or three times in					
		know personally, such as	the past year [3],					
		relatives, friends, neighbors or	Once in the past					
	General	other acquaintances?	year [2], Not at					
	Social	D. Helped somebody to find a	all in the past	2002, 2004,				
82	Survey	job	year [1]	2012, 2014	5,047	0.001	0.00003	100
		There are different opinions as						
		to what it takes to be a good						
		citizen. As far as you are						
		concerned personally on a scale						
		of 1 to 7, where 1 is not at all						
		important and 7 is very						
		important, how important is						
	General	it,Ķ	1 [not at all					
	Social	H. To help people in America	important] - 7					
83	Survey	who are worse off than yourself	[very important]	2004, 2014	2,712	-0.02	0.005	100
		There are different opinions as						
		to what it takes to be a good						
		citizen. As far as you are						
		concerned personally on a scale						
		of 1 to 7, where 1 is not at all						
		important and 7 is very						
		important, how important is						
		it,Ķ						
	General	I. To help people in the rest of	1 [not at all					
	Social	the world who are worse off	important] - 7					
84	Survey	than yourself	[very important]	2004, 2014	2,689	-0.02	0.003	100

			More than once a					
			week					
			[6], Once a week					
			[5], Once a month					
			[4], At least two					
			or three times in					
			the past year [3],					
		During the past 12 months, how	Once in the past					
	General	often have you done each of the	year [2], Not at					
	Social	following things:	all in the past	2002, 2004,				
85	Survey	F. Given money to a charity	year [1]	2012, 2014	3,568	-0.02	0.005	100
	•	Generally speaking, do you						
		believe there is a major	Major problem					
		problem, minor problem, or not	[3], Minor					
		much of a problem with the	problem [2], Not					
	KRC	general tone and level of	much of a	2010-2017,				
86	Research	civility in the country today?	problem [1]	2019	9192	0.006	0.0008	100
		In an average 7-day week, how	<u> </u>			01000		
		many times would you say you						
		encounter incivility, in your in-						
		person interactions with people						
		and online in social networks						
		[2016-2019: "and in your						
		online interactions with						
	VDC	people]? Please use your best estimate. IN-PERSON	0 1 5 6 10 11	2012 2017				
0.7	KRC		0, 1-5, 6-10, 11-	2013-2017,	5.620	0.12	0.005	100
87	Research	INTERACTIONS.	15, 16+	2019	5628	-0.13	0.005	100

		In an average 7-day week, how						
		many times would you say you						
		encounter incivility, in your in-						
		person interactions with people						
		and online in social networks						
		[2016-2019: "and in your						
		online interactions with						
		people]? Please use your best						
	KRC	estimate. ONLINE	0, 1-5, 6-10, 11-	2013-2017,				
88	Research	INTERACTIONS.	15, 16+	2019	5628	0.03	0.0002	100
		[ASKED OF THOSE	Very civil [4],					
		EMPLOYED] How would you	Somewhat civil					
		describe the general tone and	[3], Somewhat					
	KRC	level of civility in your place of	uncivil [2], Very	2016, 2017,				
89	Research	employment?	uncivil [1]	2019	1606	-0.002	0.00001	100
		Which of the following, if any,						
		have you personally						
	KRC	experienced? [instances of						
90	Research	incivility]	Any [1], None [0]	2011-2016	6,134	-0.04	0.0007	100
		Generally speaking, would you						
		say that most people can be	Can't be too	1981, 1995,				
	World	trusted or that you need to be	careful [1], Most	1999, 2001,				
	Values	very careful in dealing with	people can be	2006, 2011,				
91	Survey	people?	trusted [0]	2017	8,902	0.003	0.003	100
		Here is a list of qualities that						
		children can be encouraged to						
	*** 1.4	learn at home. Which, if any,	37.	1981, 1995,				
	World	do you consider to be especially	Not mentioned	1999, 2001,				
	Values	important? Please choose up to	[0], Mentioned as	2006, 2011,		0.005		100
92	Survey	five. UNSELFISHNESS	important [1]	2017	14,154	0.002	0.001	100

			A great deal of					
			respect for					
			individual human					
			rights [1], Fairly					
		How much respect is there for	much respect [2],					
	World	individual human rights	Not much respect	1999, 2001,				
	Values	nowadays (in our country)?. Do	[3], No respect at	2006, 2011,				
93	Survey	you feel there is:	all [4]	2000, 2011,	8,304	0.02	0.005	100
93	Survey	Here is a list of qualities that	an [4]	2017	0,304	0.02	0.003	100
		-						
		children can be encouraged to		1001 1005				
	World	learn at home. Which, if any,	Not mentioned	1981, 1995,				
		do you consider to be especially		1999, 2001,				
0.4	Values	important? Please choose up to	[0], Mentioned as	2006, 2011,	14154	0.004	0.004	100
94	Survey	five. TOLERANCE	important [1]	2017	14,154	0.004	0.004	100
		I'd like to ask you how much						
		you trust people from various						
		groups. Could you tell me for	Trust completely					
		each whether you trust people	[1], Trust					
		from this group completely,	somewhat [2],					
	World	somewhat, not very much or	Don't trust very					
	Values	not at all? People of another	much [3], Do not	2006, 2011,				
95	Survey	religion.	trust at all [4]	2017	5932	0.02	0.001	100
		I'd like to ask you how much						
		you trust people from various						
		groups. Could you tell me for	Trust completely					
		each whether you trust people	[1], Trust					
		from this group completely,	somewhat [2],					
	World	somewhat, not very much or	Don't trust very					
	Values	not at all? People of another	much [3], Do not	2006, 2011,				
96	Survey	nationality.	trust at all [4]	2017	5921	-0.006	0.0002	100

		I'd like to ask you how much						
		you trust people from various						
		groups. Could you tell me for	Trust completely					
		each whether you trust people	[1], Trust					
		from this group completely,	somewhat [2],					
	World	somewhat, not very much or	Don't trust very					
	Values	not at all? People you know	much [3], Do not	2006, 2011,				
97	Survey	personally.	trust at all [4]	2017	5958	0.003	0.00009	100
	-	I'd like to ask you how much						
		you trust people from various						
		groups. Could you tell me for	Trust completely					
		each whether you trust people	[1], Trust					
		from this group completely,	somewhat [2],					
	World	somewhat, not very much or	Don't trust very					
	Values	not at all? People you meet for	much [3], Do not	2006, 2011,				
98	Survey	the first time.	trust at all [4]	2017	5971	0.002	0.00001	100
		I'd like to ask you how much						
		you trust people from various	Trust completely					
		groups. Could you tell me for	[1], Trust					
		each whether you trust people	somewhat [2],					
	World	from this group completely,	Don't trust very					
	Values	somewhat, not very much or	much [3], Do not	2006, 2011,				
99	Survey	not at all? Your neighborhood.	trust at all [4]	2017	5965	0.008	0.0003	100
		I'd like to ask you how much						
		you trust people from various	Trust completely					
		groups. Could you tell me for	[1], Trust					
		each whether you trust people	somewhat [2],					
	World	from this group completely,	Don't trust very					
	Values	somewhat, not very much or	much [3], Do not	2006, 2011,				
100	Survey	not at all? Your family.	trust at all [4]	2017	5978	0.02	0.003	100

		Do you think most people						
		would try to take advantage of						
		you if they got a chance, or						
		would they try to be fair?						
		Please show your response on						
		this card, where 1 means that	Most people try					
		Äupeople would try to take	to take advantage					
	World	advantage of you,,Äù and 10	of me [1] - Most					
	Values							
101		means that ,Äúpeople would try to be fair,Äù:	people try to be	2006 2011	3436	0.001	0.00003	100
101	Survey		fair [10]	2006, 2011	3430	0.001	0.00003	100
		Here is a list of qualities which						
		children can be encouraged to						
		learn at home. Which, if any,	F 4					
	.	do you consider to be especially	[participants	1001 2017				
	European	important? Please choose up to	could choose the	1981-2017				
100	Values	five. Tolerance and respect for	quality from the	(but varies by	4164	0.0		100
102	Survey	other people	list or not]	country)	4164	.02	0.02	100
		Here is a list of qualities which						
		children can be encouraged to						
		learn at home. Which, if any,	[participants					
	European	do you consider to be especially	could choose the	1981-2017				
	Values	important? Please choose up to	quality from the	(but varies by				
103	Survey	five. Unselfishness	list or not]	country)	4164	.02	0.02	100
		Please look carefully at the						
		following list of voluntary						
		organisations and activities and						
		say b) which, if any, are you	[participants					
		currently doing unpaid	could indicate					
	European	voluntary work for? Social	they currently do	1981-2017				
	Values	welfare services for elderly,	unpaid work, or	(but varies by		-		
104	Survey	handicapped or deprived people	not]	country)	4164	0.0008	-0.00006	100

		Please look carefully at the						
		following list of voluntary						
		organisations and activities and						
		say b) which, if any, are you						
		currently doing unpaid						
		voluntary work for? And do	[participants					
		you currently do any unpaid	could indicate					
	European	work for any of them? Third	they currently do	1981-2017				
	Values	world development or human	unpaid work, or	(but varies by				
105		rights	not]	country)	4164	-0.001	0.001	100
100	Burvey		Most people can	country)	1101	0.001	0.001	100
			be trusted					
		Generally speaking, would you	(recoded as 1),					
	European	say that most people can be	can't be too	1981-2017				
	Values	trusted or that you can't be too	careful (recoded	(but varies by				
106		careful in dealing with people?	as 0)	country)	4041	0.01	0.008	100
100	Survey	Here are some aspects of a job	as 0)	country)	7071	0.01	0.000	100
		that people say are important.						
		Please look at them and tell me	[participants					
	Ентопост		could choose the	1001 2017				
	European	which ones you personally		1981-2017				
107	Values	think are important in a job? A	quality from the	(but varies by	41.64	0.002	0.0001	100
107	Survey	useful job for society	list or not]	country)	4164	-0.002	-0.0001	100

Table S4: Archival Survey Questions (non-US Sample) and Results, Study 4

	Source	Question	Response options	Years	N	В	R ²	% of 89% HDI in ROPE
		And for which, if any, are you currently		1981-				
	World	doing unpaid voluntary work? Unpaid		2018 (but				
	Values	work social welfare service for elderly,		varies by				
1	Survey	handicapped or deprived people	[mentioned or not]	country)	49958	0.007	0.008	100
		Here are some more aspects of a job						
		that people say are important. Please		1981-				
	World	look at them and tell me which ones		2018 (but				
	Values	you personally think are important in a		varies by				
2	Survey	job? Useful for society	[mentioned or not]	country)	21905	0.05	0.001	37%
		Here is a list of qualities that children						
		can be encouraged to learn at home.		4004				
		Which, if any, do you consider to be		1981-				
	World	especially important? Please choose up		2018 (but				
	Values	to five. Not being selfish		varies by				
3	Survey	(unselfishness)	[mentioned or not]	country)	404605	0.003	0.003	100
				1981-				
	World	How much respect is there for		2018 (but				
	Values	individual human rights nowadays in	1 = a lot, 4 = no	varies by				
4	Survey	this country?	respect at all	country)	288573	-0.006	0.0009	100

		Name I will beingly danceits a source						
		Now I will briefly describe some						
		people. Using this card, would you						
		please indicate for each description						
		whether that person is very much like		1001				
	XX7 1.1	you, like you, somewhat like you, not	1 11 111	1981-				
	World	like you, or not at all like you?: "It is	1 = not at all like me,	2018 (but				
_	Values	important to help people living nearby;	6 = very much like	varies by	111106	0.02	0.001	100
5	Survey	to care for their needs"	me	country)	111196	-0.02	0.001	100
		Here is a list of qualities that children						
		can be encouraged to learn at home.		1001				
	*** 11	Which, if any, do you consider to be		1981-				
	World	especially important? Please choose up		2018 (but				
	Values	to five. Tolerance and respect for other		varies by	400 -			4.0.0
6	Survey	people	[mentioned or not]	country)	408509	0.003	0.002	100
		I'd like to ask you how much you trust						
		people from various groups. Could you						
		tell me for each whether you trust		1981-				
	World	people from this group completely,		2018 (but				
	Values	somewhat, not very much or not at all?	1 = trust completely,	varies by				
7	Survey	People of another religion	4 = do not trust at all	country)	212738	-0.003	0.00009	100
		I 'd like to ask you how much you trust						
		people from various groups. Could you						
		tell me for each whether you trust		1981-				
	World	people from this group completely,		2018 (but				
	Values	somewhat, not very much or not at all?	1 = trust completely,	varies by				
8	Survey	People of another nationality	4 = do not trust at all	country)	211855	-0.002	0.00004	100
		I 'd like to ask you how much you trust						
		people from various groups. Could you						
		tell me for each whether you trust		1981-				
	World	people from this group completely,		2018 (but				
	Values	somewhat, not very much or not at all?	1 = trust completely,	varies by				
9	Survey	People you know personally	4 = do not trust at all	country)	224599	0.008	0.001	100

				1981-				
	World	And for which, if any, are you currently		2018 (but				
	Values	doing unpaid voluntary work? Unpaid		varies by				
10	Survey	work for human rights	[mentioned or not]	country)	48958	0.0007	0.0004	100
				1981-				
	World	Using the responses on this card, could		2018 (but				
	Values	you tell me how much you trust	1 = trust completely,	varies by				
11	Survey	[Nationality] people in general?	4 = do not trust at all	country)	21314	0.17	0.003	29.36
		I 'd like to ask you how much you trust						
		people from various groups. Could you						
		tell me for each whether you trust		1981-				
	World	people from this group completely,		2018 (but				
	Values	somewhat, not very much or not at all?	1 = trust completely,	varies by				
12	Survey	People you meet for the first time	4 = do not trust at all	country)	221110	-0.004	0.0001	100
		I 'd like to ask you how much you trust						
		people from various groups. Could you						
		tell me for each whether you trust		1981-				
	World	people from this group completely,		2018 (but				
	Values	somewhat, not very much or not at all?	1 = trust completely,	varies by				
13	Survey	Your family	4 = do not trust at all	country)	22109	-0.32	0.02	13.1
	11	Generally speaking, would you say that		1981-				
	World	most people can be trusted or that you	1 = most people can	2018 (but				
	Values	need to be very careful in dealing with	be trusted, $2 = need$	varies by				
14	Survey	people?	to be very careful	country)	393873	0.003	0.002	100
	*** 11		1 = most people try	1981-				
	World	Do you think most people would try to	to take advantage of	2018 (but				
1, -	Values	take advantage of you if they got a	me, $10 = most people$	varies by	52005	0.00	0.0000	100
15	Survey	chance, or would they try to be fair?	try to be fair	country)	53007	0.02	0.0009	100

		A 11 maximalar T Tain a 41 in a and a compositive						
		All rounds: Using this card, generally						
		speaking, would you say that most						
		people can be trusted, or that you can't						
		be too careful in dealing with people?		2002				
	-	Please tell me on a score of 0 to 10,		2002-				
	European	where 0 means you can't be too careful	0 = you can't be too	2018 (but				
	Social	and 10 means that most people can be	careful, $10 = most$	varies by				
16	Survey	trusted.	people can be trusted	country)	421379	0.02	0.0002	100
				2002-				
	European	Have you or a member of your		2018 (but				
	Social	household been the victim of a burglary		varies by				
17	Survey	or assault in the last 5 years?	1 = yes, 2 = no	country)	421416	0.004	0.00009	100
		All rounds: Using this card, do you	0 = most people try	2002-				
	European	think that most people would try to take	to take advantage of	2018 (but				
	Social	advantage of you if they got the chance,	me, $10 = most people$	varies by				
18	Survey	or would they try to be fair?	try to be fair	country)	418880	0.01	0.00008	100
			0 = people mostly					
			look out for	2002-				
	European		themselves, 10 =	2018 (but				
	Social	Most of the time people helpful or	people mostly try to	varies by				
19	Survey	mostly looking out for themselves	be helpful	country)	92774	0.04	0.0008	100
	•	•	1 = all or most of the	•				
			time, $2 = \text{some of the}$	2002-				
	European	All rounds: How safe do you - or would	time, $3 = just$	2018 (but				
	Social	you - feel walking alone in this area	occasionally, 4 =	varies by				
20	Survey	after dark?	never	country)	418124	-0.03	0.002	100
			1 = all or most of the					
			time, $2 = \text{some of the}$	2002-				
	European		time, $3 = just$	2018 (but				
	Social	How often, if at all, do you worry about	occasionally, 4 =	varies by				
21	Survey	your home being burgled?	never	country)	148663	-0.01	0.00004	100

			1 = all or most of the					
			time, $2 = \text{some of the}$	2002-				
	European		time, $3 = just$	2018 (but				
	Social	How often worry about becoming a	occasionally, 4 =	varies by				
22	Survey	victim of violent crime	never	country)	148112	-0.01	0.00002	100
	_	Now I will briefly describe some						
		people. Please listen to each description						
		and tell me how much each person is or						
		is not like you. Use this card for your	1 = very much like					
		answer. She/he thinks it is important	me, $2 = $ like me, $3 =$					
		that every person in the world should be	somewhat like me, 4	2002-				
	European	treated equally. She/he believes	= a little like me, 5 =	2018 (but				
	Social	everyone should have equal	not like me, $6 = not$	varies by				
23	Survey	opportunities in life.	like me at all	country)	407185	-0.005	0.00006	100
		Now I will briefly describe some						
		people. Please listen to each description						
		and tell me how much each person is or						
		is not like you. Use this card for your	1 = very much like					
		answer. It is important to her/him to	me, $2 = like me$, $3 =$					
		listen to people who are different from	somewhat like me, 4	2002-				
	European	her/him. Even when she/he disagrees	= a little like me, 5 =	2018 (but				
	Social	with them, she/he still wants to	not like me, $6 = not$	varies by				
24	Survey	understand them.	like me at all	country)	406259	-0.02	0.0008	100
		Now I will briefly describe some						
		people. Please listen to each description	1 = very much like					
		and tell me how much each person is or	me, $2 = $ like me, $3 =$					
		is not like you. Use this card for your	somewhat like me, 4	2002-				
	European	answer. It's very important to her/him to	= a little like me, 5 =	2018 (but				
1_	Social	help the people around her/him. She/he	not like me, $6 = not$	varies by				
25	Survey	wants to care for their well-being.	like me at all	country)	407386	-0.04	0.003	100

				2002-				
	European	Using this card, please tell me to what		2018 (but				
	Social	extentyou feel that people in your	0 (not at all) - 6 (a	varies by				
26	Survey	local area help one another?	great deal)	country)	407185	0.05	0.001	100
	-		,	2002-				
	European	Using this card, please tell me to what		2018 (but				
	Social	extent you feel that people treat you	0 (not at all) - 6 (a	varies by				
27	Survey	with respect?	great deal)	country)	93558	-0.02	0.00004	100
	-	Here is a list of qualities which children						
		can be encouraged to learn at home.						
		Which, if any, do you consider to be		1981-				
	European	especially important? Please choose up	[participants could	2017 (but				
	Values	to five. Tolerance and respect for other	choose the quality	varies by				
28	Survey	people	from the list or not]	country)	180972	0.004	0.006	100
		Here is a list of qualities which children						
		can be encouraged to learn at home.		1981-				
	European	Which, if any, do you consider to be	[participants could	2017 (but				
	Values	especially important? Please choose up	choose the quality	varies by				
29	Survey	to five. Unselfishness	from the list or not]	country)	179125	0.003	0.003	100
		Please look carefully at the following						
		list of voluntary organisations and						
		activities and say b) which, if any,						
		are you currently doing unpaid	[participants could	1981-				
	European	voluntary work for? Social welfare	indicate they	2017 (but				
	Values	services for elderly, handicapped or	currently do unpaid	varies by		-		
30	Survey	deprived people	work, or not]	country)	122756	0.0002	0.00007	100

		Please look carefully at the following list of voluntary organisations and						
		activities and say b) which, if any,						
		are you currently doing unpaid						
		voluntary work for? And do you	[participants could	1981-				
	European	currently do any unpaid work for any of	indicate they	2017 (but				
	Values	them? Third world development or	currently do unpaid	varies by				
31	Survey	human rights	work, or not]	country)	122661	0.005	0.001	100
		Generally speaking, would you say that	Most people can be	1981-				
	European	most people can be trusted or that you	trusted (recoded as	2017 (but				
	Values	can't be too careful in dealing with	1), can't be too	varies by				
32	Survey	people?	careful (recoded as 0)	country)	178714	0.002	0.001	100
		Here are some aspects of a job that						
		people say are important. Please look at		1981-				
	European	them and tell me which ones you	[participants could	2017 (but				
	Values	personally think are important in a job?	choose the quality	varies by		-		
33	Survey	A useful job for society	from the list or not]	country)	163278	0.0002	0.00001	100

Additional Analyses in Study 5a

What explained participants' overall perception of moral decline: their theories about personal change and interpersonal replacement within their personal worlds, or without? To find out, we fit three linear models on subsets of participants depending on the amount of information that they provided. The results are shown in Table S5. For each subset of participants, both personal change and interpersonal replacement for people in general were strong predictors of how much overall moral decline they perceived. For those participants who experienced personal change in their personal world, that change was not related to their overall perception of moral decline. For those participants who experienced both personal change and interpersonal replacement in their personal world, personal change was related to their overall perception of moral decline.

Table S5: Regression Coefficients for Each of the Four Models Fit in Study 5a

		Personal change for people in general	Interpersonal replacement for people in general	Personal change for people in personal world	Interpersonal replacement for people in personal world
Subset	N				
Did not experience	27	b = 0.49	b = 0.42		
personal change or		t(24) =	t(24) = 3.75		
interpersonal replacement		4.10	<i>p</i> < .001		
in personal world		<i>p</i> < .001			
Experienced personal	256	b = 0.50	b = 0.31	b = 0.06	
change in personal world		t(252) =	t(252) = 8.72	t(252) =	
		10.04	<i>p</i> < .001	1.15	
		<i>p</i> < .001		p = .25	
Experienced both personal	141	b = 0.44	b = 0.30	b = 0.15	b = 0.08
change and interpersonal		t(136) =	t(136) = 5.46	t(136) =	t(136) = 1.02
replacement in personal		6.64	<i>p</i> < .001	1.88	p = .31
world		<i>p</i> < .001		p = .061	

Note: Four participants provided an interpersonal replacement score for their personal world but not a personal change score. All tests are two-sided. No adjustments for multiple comparisons were applied because each model uses independent data.

Table S6: Demographics Questions Used in Studies 2a-c, 3, and 5a-b

Variable	Question	Response options		
Age	What is your age? (Please enter a whole number.)	[Participants entered a whole number]		
Gender What is your gender		Male, female, other		
Race	What is your	American Indian or Alaska Native		
	race/ethnicity?	Asian		
		Black or African-American		
		Hispanic or Latino Origin		
		Hawaiian or Pacific Islander		
		White		
		Other		
		More than 1 of the above		
Education	What is the highest level	Did not complete high school		
	of education you have	High school diploma		
	completed?	Some college		
		Associate's degree		
		Four-year college degree		
		Some graduate school		
		Graduate school		
Number of children	How many children do	0, 1, 2, 3, 4+		
	you have?			
Political ideology	How would you describe	Very liberal		
	yourself politically?	Somewhat liberal		
		Neither liberal nor conservative		
		Somewhat conservative		
		Very conservative		

SECTION 2: ADDITIONAL STUDIES NOT APPEARING IN MAIN TEXT

Study S1: Pre-registered Replication of Study 2a

Study S1 was a pre-registered replication of Study 2a. The preregistration is available at https://osf.io/hr7we.

Method

Participants. In November, 2022, we recruited a nationally representative sample of American adults using Prolific, an online sample provider. This sample was constructed to represent the American adult population in terms of gender, race, and age. We intended to recruit 1,000 participants, but Prolific ultimately provided us with 997 (512 female, 477 male, 8 "other", $M_{age} = 45.42,76\%$ white, 13% Black, 6% Asian, 4% Hispanic, 1% American Indian or Alaska Native, 1% "more than 1 of the above"). All participants were paid \$0.75 each for their participation.

Procedure. Participants completed the same procedure as in Study 2a.

Results

Exclusions. One hundred and forty-three participants failed the attention check embedded in the demographics questions. An additional 113 participants failed the consistency check. As in Study 2a, and is specified in our preregistration plan, these participants were excluded from all analyses. As in Study 2a, these exclusions did not meaningfully affect any of the results.

Main analysis. As in Study 2a, we fit a mixed linear effects model with perceived morality as the outcome and a fixed effect of year and with random intercepts for each participant. We then conducted pairwise comparisons between each of the three years using a Holm-Bonferroni correction for multiple comparisons. The results of Study 2a were replicated:

Participants rated people as less moral in 2022 (M = 4.25) than in both 2012 (M = 4.81, b = -0.56, t(1480) = -15.25, 95% CI = [-0.65, -0.48]) and 2002 (M = 5.06, b = -0.82, t(1480) = -22.03, 95% CI = [-0.90, -0.73]). Participants also rated people as less moral in 2012 than in 2002 (b = -0.25, t(1480) = -6.79, 95% CI = [-0.34, -0.16]).

Study S2: Replication of Study 2a with Participants from MTurk

Study 2a was run with participants recruited on the Prolific platform. Prolific provides nationally representative samples but is expensive and has a relatively small pool. In Study S2, we used the same method used in Study 2a with participants recruited on the MTurk platform, which is less expensive and has a larger pool. We reasoned that if the two platforms provided the same results, we could safely use the MTurk platform in subsequent studies.

Method

Participants. In January, 2020, 302 people responded to an advertisement for a study posted on Amazon Mechanical Turk. Respondents first took a three-item test of English language and American culture that required them to know that children in kindergarten are three or four years old, that an American ZIP code is a series of five digits, and that eating turkey is not an activity associated with Halloween. One hundred and two respondents failed to answer one or more of the questions correctly and were not allowed to participate. The remaining 200 respondents became participants in the study in exchange for \$0.75 (68 female, 131 male, 1 "other", $M_{\rm age} = 37.45$ years, 60% White, 28% Black, 6% Hispanic, 4% Asian, 1% "more than one of the above").

Procedure. Participants completed the same procedure as in Studies 2a and S1 with one additional question: After rating people in general today, "ten years ago," and "twenty years ago," they also rated people in general "thirty years ago."

Results

Exclusions. Thirteen participants failed the attention check embedded in the demographics and were excluded from all analyses. Another participant reported that they are 300 years old and was excluded from all analyses. Finally, 53 participants gave answers to the consistency check question that were inconsistent with their previous answers; they were also excluded. This left 134 participants in all analyses (45 female, 88 male, 1 "other", Mage = 38.09, 70% White, 19% Black, 5% Hispanic, 4% Asian, 1% "more than one of the above", 1% "other"). These exclusions do not meaningfully affect the results.

Main results. Using the same analysis as in Studies 2a and S1, participants rated people in 2020 (M = 4.75) as less kind, honest, nice, and good compared to all previous years (2010: b = -0.26, 95% CI = [-0.51, -0.009], t(399) = -2.75, p = .02; 2000: b = -0.57, 95% CI = [-0.83, -0.32], t(399) = -6.05, p < .001; ,1990: b = -0.50, 95% CI = [-0.75, -0.25], t(399) = -5.27; p < .001). Participants rated people in 2010 (M = 5.01) as less kind, honest, nice, and good compared to all previous years (2000: b = 0.31, 95% CI = [-0.57, -0.06], t(399) = -3.30, p = .004; 1990: b - 0.24, 95% CI = [-0.49, 0.013], t(399) = -2.51, p = .02). The difference in ratings for 2000 (M = 5.33) and 1990 (M = 5.25) was not significant, b = 0.07, 95% CI = [-0.18, 0.33], t(399) = 0.79, p = .43.

Study S3: Estimated Rates of Cooperation in Prisoner's Dilemma Games (1956-2017)

A recent meta-analysis by Yuan et al (2022)¹ found that between 1956 and 2017, cooperation rates in economic games—specifically, in prisoners' dilemmas and public goods

games—increased by 9% to 10% (depending on model specifications). In Study S3 (run in September, 2022), we described to participants a representative version of one of these games (based on Yi & Rachlin, 2004², one of the studies included in the meta-analysis) and asked them to estimate whether and how cooperation rates might have changed over that time period.

Method

Participants. We recruited a sample of American adults using Prolific, an online sample provider. One hundred and forty-nine people (87 female, 60 male, 2 "other", $M_{age} = 35.19$ years, 73% White, 7% Black, 6% Hispanic, 5% Asian, 1% Hawaiian or Pacific Islander, 3% other, 5% "more than one of the above") were paid \$1.00 each for their participation.

Procedure. After providing informed consent, participants confirmed their Prolific ID, per the site's usage policy. They then completed the same three-item test of English language and American culture used in our other studies. Prolific does not allow participants to be screened out once they have begun the study, so if participants failed any of these questions, they were excluded later rather than being deemed ineligible before responding.

Participants then read and signed a consent form and reported their birth year, which was later compared to their self-reported age as a consistency check. Participants then read the following instructions: "For decades, researchers have been measuring how kind, nice, honest, and good people are by asking them to play a 'cooperation game.' Today we will explain the game and then ask you to guess what people did. If you guess correctly, we will automatically enter you in a lottery to win \$20. Here is how one of the games worked. Two strangers reported to a laboratory and were put into separate rooms. They each sat at a computer and read the following instructions. Please read them closely because we'll ask you about them later."

Participants then read a generic description of the Prisoner's Dilemma game, based on Yi and Rachlin (2004)², which was one of the studies included in the meta-analysis by Yuan et al (2022)¹. "Today, you and the other person will each independently choose TO COOPERATE or NOT TO COOPERATE. If you choose TO COOPERATE, you will receive either \$0 or \$70. You will receive \$0 if the other person chooses NOT TO COOPERATE, and they will receive \$100. You will receive \$70 if the other person chooses TO COOPERATE, and they will also receive \$70. If you choose NOT TO COOPERATE, you will receive either \$30 or \$100. You will receive \$30 if the other person chooses NOT TO COOPERATE, and they will receive \$30. You will receive \$100 if the other person chooses TO COOPERATE, and they will receive \$0. So what would you like to do? Do you choose TO COOPERATE or NOT TO COOPERATE?"

On the next page, participants read: "As we already mentioned, researchers have been measuring how kind, nice, honest, and good people are by asking them to play this "cooperation game" for decades, and we now know the percentage of people who chose to cooperate in every year from 1956 to 2017. Do you think the rate of cooperation changed in that 61-year period, and if so, how?"

Participants responded by indicating one of three alternatives: (a) "I think the percentage of people who chose to cooperate went up between 1956 and 2017"; (b) "I think the percentage of people who chose to cooperate stayed the same between 1956 and 2017"; or (c) "I think the percentage of people who chose to cooperate went down between 1956 and 2017".

Next, participants answered two questions by entering a number between 0 and 100 into a text box: (a) "In 1956, what percentage of people do you think chose to cooperate?" and (b) "In 2017, what percentage of people do you think chose to cooperate?"

Participants then completed two comprehension checks, which required them to demonstrate that they knew that (a) if one person chose to cooperate in the economic game and the other chose not to cooperate, the person who chose to cooperate got nothing, and (b) if both chose not to cooperate, they both got \$30.

Finally, participants completed a set of demographics questions, embedded in which was another attention check that required participants to select the option "other" and type the word "shoe."

Results

Exclusions. Three participants failed the language and culture test. An additional 30 participants failed at least one of the two comprehension checks. Another 12 failed the attention check embedded in the demographics questions. Another three participants reported an age at the end of the study that was inconsistent with the birth year they reported at the beginning of the study. Finally, seven participants gave inconsistent answers on the categorical and continuous questions (for instance, reporting that cooperation rates had increased, then giving the same answer for both continuous questions). These participants were excluded from all analyses, leaving 94 participants in the data set (54 female, 39 male, 1 "other", $M_{age} = 35.13$, 69% White, 9% Hispanic, 7% Black, 6% Asian, 2% "other", 5% "more than one of the above"). These exclusions did not meaningfully affect the results.

Estimates of changes in cooperation rates. When asked whether cooperation rates had increased, stayed the same, or decreased between 1956 and 2017, 26% of participants correctly reported that they had increased—but more than twice as many, 63%, mistakenly reported that they had decreased. Twelve percent of participants reported that they had stayed the same. This distribution of responses differed significantly from a distribution of response in which

participants chose each option with equal frequency, χ^2 (2, 94) = 39.34, p < .001. In addition, on average, participants estimated that in 1956, 63% of people cooperated and that in 2017 only 52% of people cooperate. A two-tailed paired-samples t-test indicated this difference was significant, t(93) = -5.01, 95% CI = [-15.02, -6.49], p < .001.

SECTION 3: DISCUSSION OF RELATED LITERATURE

Other Demonstrations of the Perception of Moral Decline

The claim that people believe morality is declining is by no means new. Historians such as Arthur Herman³ and political scientists such as Andrew Murphy⁴ have traced the long history of belief in "moral declinism." Psychologists Richard Eibach and Lisa Libby⁵ were (to our knowledge) the first to bring modern survey data to bear on this idea, describing a half dozen survey items on which people perceived moral decline to illustrate their suggestion that "Perceptions of moral decline are particularly common" and "often exaggerated." In short, there is a long tradition of thought and a short tradition of research on the perception of moral decline and its potentially illusory status. However, to our knowledge, no one has ever *tested* the hypothesis that people perceive moral decline by analyzing the full corpus of survey data, as we did in Study 1. A recent study shows why testing the full corpus is imperative.

Mitchell and Tetlock⁶ asked participants (among other things) to guess how a variety of "social indicators" had changed over various time intervals. Most of these indicators had nothing to do with morality (e.g., dental health, hourly wages, educational attainment, etc.), but two were morally relevant: (a) the number of documented hate crimes committed on college campuses between 2015 and 2018 and (b) the percentage of youth in juvenile justice facilities who reported being sexually victimized between 2012 and 2018. Mitchell and Tetlock hypothesized that although the frequency of hate crimes and sexual victimization had decreased over the intervals and in the locations they specified, participants would mistakenly guess that these frequencies had increased. In other words, they expected participants to show an illusion of moral decline on these two items. Consistent with our results, that's exactly what they found.

Although this evidence may have been satisfactory for Mitchell and Tetlock's purposes, it does not provide satisfactory evidence of the illusion of moral decline because when researchers select just a few specific items for analysis (rather than analyzing the entire corpus of items), they can demonstrate anything they wish. For example, Mitchell and Tetlock asked participants to estimate the frequency of hate crimes that had occurred *between 2015 and 2018* and *on college campuses*. Figure S5 shows the original data on which Mitchell and Tetlock report having based their question. Note first that across the full interval (from 2010 to 2019), there is no meaningful linear trend: The correlation between year and frequency of hate crimes on college campuses in these data is r = .1. From these data that show no linear trend over 10 years, Mitchell and Tetlock selected a specific 3-year interval (2015 to 2018) in which hate crimes on college campuses happen to have decreased by 3%.

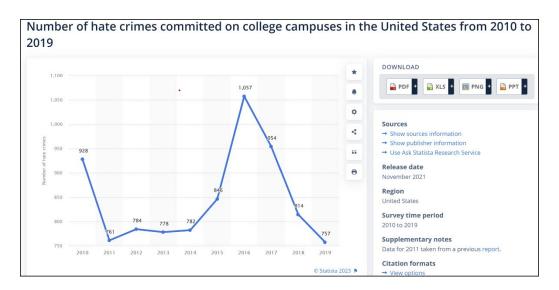


Figure S5. Data on which Mitchell and Tetlock (2022) based their question about the frequency of hate crimes on college campuses between 2013 and 2016.

Mitchell and Tetlock chose a special interval and also a special location: college campuses. Figure S6 shows the frequency of hate crimes in the U.S. in the previous decade according to the FBI's Uniform Crime Reporting Hate Crime Statistics Program (available at https://bjs.ojp.gov/library/publications/hate-crime-recorded-law-enforcement-2010-2019).

Although the rate of hate crimes that occurred on college campuses decreased by 3% between 2015 and 2018, the rate of hate crimes that occurred in the U.S. increased by 22% in that same interval. In other words, Mitchell and Tetlock selected a specific interval and a special location in which there was a slight decrease in hate crimes, in contrast with the more general trend. A participant who was (correctly) aware that the frequency of U.S hate crimes had increased in general might naturally (but incorrectly) have guessed that it also increased in this specific location during this specific interval.

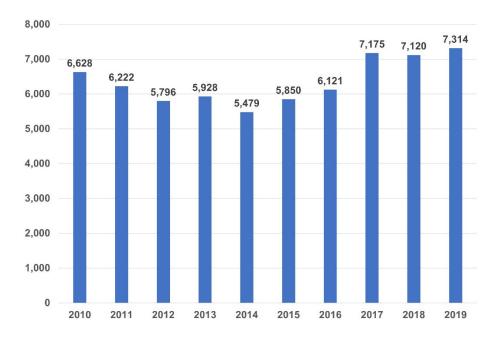


Figure S6. Frequency of hate crimes in the US between 2010 and 2019.

The point here is that producing an illusion of moral decline, an illusion of moral improvement, or no illusion at all, is not difficult when researchers design or select a small number of items to analyze, which is why previous analyses of a small number of handpicked items do not provide a meaningful test of the hypothesis that the perception of moral decline is "common" and "exaggerated." Our Studies 1 and 4, in contrast, examine all the relevant indicators we could find from all the major survey providers in all the relevant time intervals over three quarters of a century, and as such, they are (to our knowledge) the first to test this hypothesis.

Potential Causes of the Perception of Moral Decline

Previous research has identified several phenomena that could play a role in producing the illusion of moral decline.

Eibach and colleagues^{5,7-9} have shown that ordinary life transitions—such as the transition to parenthood—can make people more aware of external threats, and that people may then mistake the changes in their levels of subjective concern for changes in the levels of objective threat. For example, because people start to worry more about dangers in the world after having children, parents may mistakenly conclude that the world itself has become more worrisome. It should be clear how this important phenomenon can lead to an illusion of moral decline. However, as far as we can tell, it does not play a consistent role in the illusion of moral decline documented by our studies. In Study 5a, parents perceived *less* moral decline than non-parents when all other demographic factors were accounted for. In Study 3, parents perceived *more* moral decline than non-parents. (These exploratory models also accounted for race, gender, age, education, and political orientation.) In the rest of our

studies, parental status did not predict the perception of moral decline. The effect described by Eibach and colleagues is intuitively compelling, but we could not find consistent evidence that it played a role in our studies. The absence of evidence is not, of course, evidence of absence, and it is possible that the effects of parental status are specific to perceiving increases in danger rather than perceiving decreases in general morality, or that the effects were simply "swamped" by the noise created by the heterogeneity of the items we analyzed.

- Protzko and Schooler^{10,11} have shown that older people tend to derogate younger people in part because older people mistakenly remember being "better youngsters" than the ones they see around them. The "kids these days" effect may help explain why participants in Study 3 attributed some portion of moral decline to "interpersonal replacement" (which is the belief that newer generations are less moral than older generations). Of course, participants in Study 3 also attributed some portion of moral decline to "personal change" (which is the belief that individuals become less moral as they move through time), which suggests that while the "kids these days" effect is an important source of the illusion of moral decline documented in our studies, it is not the sole source. It is also worth noting that even the youngest participants in our studies perceived moral decline, and that the amount of moral decline perceived by participants in Studies 2c and 5b was unrelated to their ages once we controlled for the amount of time about which participants were being asked to make judgments.
- Stavrova and Ehlebracht have shown that people tend to equate cynicism with cognitive ability ¹², which suggests that people's reports of moral decline could simply be attempts to impress others with their intelligence and perspicacity. Although cynicism may well be a winning impression-management strategy in many instances, we do not believe it plays a

significant role in the illusion of moral decline documented by our studies. First, participants in our original studies responded anonymously to questions on an online survey, so there was no "other person" whose impressions they might manage. Anonymous responding was likely the case for many if not most of the archival surveys we analyzed in Study 1. Second, participants in both the archival studies and our original studies were willing to report increases in morality on certain dimensions (e.g., the treatment of African Americans, people with physical disabilities, and gay people) and among certain populations (e.g., people in their personal worlds), which is not what one would expect of people who were attempting to appear cynical. Third, when we gave participants a financial incentive to accurately predict the direction of change in rates of cooperation in the prisoner's dilemma game over 61-years (see Study S3 in Section 3), a substantial majority mistakenly estimated that the rate had declined when, in fact, it has increased. Although it is always difficult to know whether people's responses to survey questions were influenced by their concerns with other people's the impressions of them, we see little reason to suspect that such concerns played a role in the illusion of moral decline documented by our studies.

We would note also that the BEAM mechanism made specific predictions (i.e., that people believe that moral decline began about the time they were born and do not believe it occurred among people in their personal worlds) that were confirmed in Studies 5a and 5b, and that none of the foregoing phenomena easily explain.

SECTION 4: MATHEMATICAL MODEL OF THE BEAM MECHANISM

We suggest that biased exposure (i.e., people encounter and attend to more negative moral information than positive moral information) and biased memory (i.e., the impact of the

negative moral information in memory diminishes more quickly than does the impact of the positive moral information in memory) can together produce the illusion of moral decline. We refer to this "Biased Exposure And Memory" as the "BEAM mechanism." To show how the mechanism works, we offer a mathematical model:

$$M = min[n_n(A_n + t*r_n), 0] + max[n_p(A_p - t*r_p), 0]$$

...where M is the observer's perception of the morality of "people in general" at a given point in time t (expressed in years, for convenience); n_n is the number of units of negative moral information the observer encountered at that time t; n_p is the number of units of positive moral information the observer encountered at that time t; A_n is the average negativity of the negative information encountered at that time t expressed as a negative number; A_p is the average positivity of the positive information encountered at that time t expressed as a positive number; r_p is the rate at which the impact of the positive information decreases in memory over time; and r_n is the rate at which the impact of negative information decreases in memory over time. The max and min functions and the trailing zeroes merely prevent the overall amount of negativity or positivity from crossing zero. This is because the impact of positive and negative information may decrease to zero, but positive information does not tend to become negative nor does negative information tend to become positive, on average. This model is simply a formal statement of the claim that an observer's perception of the morality of people in general at a particular time is a function of the information to which the observer was exposed at that time and the emotional impact that information currently has on the observer.

What does the model predict when both exposure and memory are biased in the ways that previous research suggests they actually are? To model the effects of biased exposure, we let n_p < n_n , and to model the effects of biased memory, we let $r_p < r_n$. For example, we can let $n_p = 5$

and $n_n = 15$, which means that the observer encounters three times as much negative moral information as positive moral information. We can also let $r_p = 0.1$ and $r_n = 0.2$, which means that with each passing year, the positive moral information loses .1 units of impact and the negative moral information loses .2 units of impact. Finally, we can let $A_p = 5$ and $A_n = -5$, which means that the positivity of the positive moral information is equivalent to the negativity of the negative moral information.

The left panel of Figure ED2 shows the predictions of the model under these assumptions. Perceived morality is plotted on the y-axis and time is plotted on the x-axis such that T = 0 is the present, and T - x is x years in the past. The black circles show the observer's perception of current morality, which is the perception of morality at each value of T by an observer who is also at that value of T. The grey circles show the perception of past morality, which is the perception of morality at each value of T by an observer who is at T = 0. As the figure shows, under the assumptions of the model, observers will perceive a low and equally low level of "current morality" at all time points (because of biased exposure) but will remember "past morality" as high—and higher with each additional year that separates the present and the past (because of biased memory). In other words, if we assume that both exposure and memory are biased in the ways that previous research suggests they actually are, the BEAM mechanism predicts that observers will experience an illusion of moral decline.

The BEAM mechanism also predicts that when people are exposed to a disproportionate amount of *positive* information about morality rather than a disproportionate amount of negative information (as they are with their family, friends, and close associates), they should perceive moral improvement rather than moral decline, which is what we found in Study 5a. Specifically, let us assume that at every point in time an observer is exposed to more positive moral

information than negative moral information (i.e., let $n_p = 15$ and $n_n = 5$) and let us retain all previous assumptions. If we do this, then (as the center panel of Figure ED2 shows) the model predicts that the observer will perceive a high and equally high level of "current morality" at all time points (because of biased exposure) but will remember "past morality" as low—and lower with each additional year that separates the present and the past (because of biased memory).

Additionally, as the right panel of Figure ED2 shows, the BEAM mechanism predicts that people should not perceive moral decline in periods for which they have no information in memory, which is to say that biased exposure by itself cannot account for the perception of moral decline.

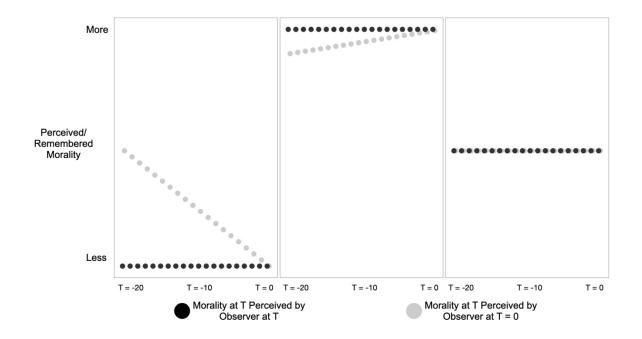


Figure S1. Data generated using the BEAM model. Left panel: Simulated data generated by setting $n_p = 5$, $n_n = 15$, $A_p = 5$, $A_n = -5$, $r_p = 0.1$, and $r_n = 0.2$. Center panel: Simulated data generated by setting $N_p = 15$, $N_n = 5$, $A_p = 5$, $A_n = -5$, $r_p = 0.1$, and $r_n = 0.2$. Right panel: Simulated data generated by setting $N_p = 0$, $N_n = 0$, N

SECTION 5: REFERENCES IN SUPPLEMENTAL INFORMATION SECTION

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