

**Направление: «Государственное и муниципальное управление»**

**Профиль: «Население и развитие»/«Population and Development»**

**Время выполнения задания – 180 мин.**

**You have 180 min to complete this task.**

**Read the article in English and analyze it critically answering the questions below.**

Economists, as well as psychologists and philosophers, have become increasingly interested in self-reported measures of wellbeing, what they mean, and whether they might be used for policymaking. This interest parallels a renewed awareness of the limitations of standard measures of GDP (and allied measures), as well as a wish to redirect measurement away from GDP in an era when growth rates are diminishing across much of the rich world.

Various subjective wellbeing (SWB) measures have been used to provide new insights and to capture a number of difficult-to-measure phenomena, such as the trade-off between inflation and unemployment, the costs of air pollution, or the values attached to environmental amenities. In spite of those successes, the measures are neither fully accepted nor fully understood.

Traditional economics has been skeptical of measures whose content is unclear, is largely up to the respondent, and is sometimes deeply affected by the wording of the questions or by the context in which they are put. Although cognitive testing in the laboratory can provide insights about how people understand well-being questions, more often the interpretation is deduced by analyzing the correlates of the answers *ex post*. This poses a problem: we cannot use a correlation between a SWB measure and a variable X both to validate the measure and to claim that we have demonstrated the welfare consequences of X. One symptom is the “happiness fork:” that results that conform to standard welfare analysis (left fork)—that income, education and health are positively linked to SWB—are taken as support for SWB measures, while results that do not so conform (right fork)—that unemployment is much worse than the loss of income would imply, or that people hate to commute—are also taken as supportive and indeed demonstrative of the superiority of the SWB measures. Such interpretations are unlikely to persuade skeptics.

Our approach is to look at several SWB findings that are, on the face of it, internally contradictory, or that appear to contradict well-based if conventional judgments about what is or is not good for people. Those who see happiness as the only good, and who believe that SWB measures capture it, simply see these conventional judgments as mistaken. For those of us not so committed, we are likely to modify our interpretation of the measures, or the place that happiness plays in wellbeing, or both. From whatever perspective, internal contradictions need to be worked out, a process that is likely to be productive. One distinction that helps reduce confusion is that between evaluative and hedonic wellbeing which we maintain throughout.

### **I. A Relative Income and Wellbeing Puzzle**

There is a large literature, using data from the US, Canada, Europe, and developing countries in which researchers have regressed some wellbeing measure on both individual income and average income over some local area that is taken to include the people to whom the individual compares him or herself. In these regressions, individual income invariably has a positive effect, while local income has a negative effect, sometimes equal and opposite to the positive effect of own income. The United Nations World Happiness Report (pp. 60–66) documents these general findings summarizing dozens of studies using panel and cross sectional data, only a few of which are in contradiction. These findings imply that the cross sectional response of SWB to income overstates a long-run time-series response in which incomes rise

together, and that economic growth may fail to increase in SWB, as long claimed by Richard Easterlin, see Easterlin (2013) for a recent statement. They also imply that individual incomes cause negative externalities to others, which could be used to justify Pigovian income taxes to discourage people from working hard and so harming others.

Our first puzzle is that, in our very large data sets, we can find no evidence for this apparently well-established conclusion. We investigate using two data sets, from the US, the Gallup Healthways Wellbeing Index survey, which has surveyed 1,000 randomly selected Americans every day since January 2008, and from the world as a whole, the Gallup World Poll, which has asked similar questions of 1,000 or more people in each of 160 countries beginning in 2006.

We look at two different ways of measuring wellbeing, an evaluative measure, the Cantril ladder, and a hedonic measure, daily happiness. The former invites respondents to rate their lives on a “ladder” with eleven steps, marked from 0, which represents the worst possible life for you, to 10, which represents the best possible life for you. Answering such a question requires the respondent to think about their life and interpret the question. We also look at a dichotomous measure in response to the question “Did you experience a lot of happiness yesterday?” This is one of a number of hedonic questions, which should be distinguished from the evaluative question in the ladder. Hedonic questions do not require the cognitive effort required to answer evaluative questions, they refer to different aspects of experience, and often have different correlates. For example, hedonic measures are uncorrelated with education, vary over the days of the week, improve with age, and respond to income only up to a threshold. Evaluative measures remain correlated with income even at high levels of income, are strongly correlated with education, are often U-shaped in age, and do not vary over the days of the week, Stone et al (2010), Kahneman and Deaton (2010). The important distinction between evaluative and hedonic wellbeing renders unhelpful the portmanteau use of the term “happiness,” or indeed subjective wellbeing.

We explore the relationship between SWB and income at various levels of aggregation. If, for example, an individual’s relative income comparators live in the same county, the effects of income on SWB should be higher in the micro data than when we look at effects of outcome is positively and linearly related to individual log income and negatively to county average log income, we will obtain the coefficient on individual income from a regression of the outcome on log income and a county fixed effect. When we run a regression on averaged county-level data, the coefficient on county average log income will be the difference between the individual and group coefficients, potentially zero if only relative income matters.

The American results ... in the micro data show the coefficient of log income on the ladder measure is 0.51; the regression controls for age groups, sex, and race, plus zipcode fixed effects. For all aggregations but zip codes, the coefficients are lower than in the micro data, and (arguably) decline modestly as the level of aggregation increases, though the state level coefficient is higher than the MSA level coefficient. If we interpret the coefficients as the difference in the effects of individual and average incomes, the maximum scope for the latter is quite small, less than a fifth of the effect of individual (log) income. There is no evidence for the idea that the positive effects of income on life evaluation are completely offset by negative effects of average income at any of the geographical areas considered here. Indeed, the zip code level analysis throws up an effect that is higher than in the micro regression. One explanation is that living with rich people provides public goods—parks, schools, libraries, etc.—that enhance evaluative wellbeing. Another possibility is that life evaluation depends not on current but permanent income, and that the latter is better proxied by the zipcode average than by own income. There is no evidence that average zipcode income has a depressing effect on evaluative wellbeing and yet it is surely here, among people that one is most likely to know, that relative income theory has the greatest plausibility.

The World results for the ladder are uncannily like the US results. The person level coefficient is 0.55, as opposed to 0.51 in the US, and the cross-country effect is 0.68, exactly what we would suppose if there are positive spillovers from having rich people nearby, and exactly the opposite of what would happen if rich people nearby create a negative externality.

The results for our hedonic measure, daily happiness, conform more closely to the relative income story. The coefficient on log income of 0.043 (remember the scale for happy is 0 to 1, not 0 to 11 as for the ladder), and declines steadily as we move down the column and the level of aggregation increases, becoming negative and insignificant across states. An alternative story is that hedonic happiness, unlike life evaluation, is more closely related to transitory than to permanent income. Aggregation over larger units annihilates an increasingly large share of transitory income and drives down the coefficient on income.

Either explanation is consistent with the evidence, as well as with the sharp decline in the effects of income on daily happiness in the global data as we move from within to across countries. Graphical examination of the global data shows that the cross-country coefficient is as high as it is because of the presence of a few very unhappy countries at the bottom of the world income distribution together with one very rich, reportedly very happy country (the US). Over a broad range of per capita GDP levels, aggregate happiness is unrelated to aggregate income; the countries of the former Soviet Union are among the unhappiest in the world, unhappier than either Congo, Benin, or Chad, for example, and Italy and Denmark are unhappier than Mozambique, Sudan, and Rwanda. These results cast serious doubt on using (the hedonic version of) happiness to provide an overall assessment of human wellbeing. While it makes sense for SWB measures to paint a different picture than GDP, it is hard to credit a measure that says that Denmark is worse off than Rwanda; being happy is a good thing, but other things surely outweigh it in any credible overall assessment of life.

Life evaluation measures, such as the ladder measure analyzed here, do not share this particular problem.

More substantively, the standard insights from permanent income theory seem promising for interpreting the wellbeing data, and offer an alternative to the relative income theory, just as was the case in consumption theory half a century ago. Yet our results should highlight that the relative income story is inconsistent with at least these data, and cannot be used to support the view that income generates externalities for others, or that universal growth will leave wellbeing unaffected.

## **II. Is religion good for you? An aggregation puzzle**

Many previous studies have found that more religious individuals have higher wellbeing; our second puzzle is that this finding does not carry through to comparison of more or less religious places. Idler and Kasl (1997) discuss the interpretative, regulative, and integrative functions of religion. Religion provides meaning to life, especially in times of difficulty, religion regulates conduct and promotes behaviors that are good for health and wellbeing, but which might be difficult to adhere to on one's own, and religion may provide direct help, in the form of healthcare or education, particularly under circumstances where provision by the state is limited. Religion provides social capital through churchgoing, and Chaeyoon Lim and Robert Putnam (2010) have argued that friends from church promote happiness more effectively than friends in general.

We use the Gallup data to examine the correlates of "religiosity," defined by the yes/no... The US, although close to the world average overall, is much more religious than most other rich countries.

The results document the evaluative and hedonic advantage for individuals who report that they are religious. Within countries, there is a modest advantage in life evaluation among

those who are more religious—the effect is equivalent to less than a ten percent increase in income, though about 50 percent in the US—and that the effect is larger when income is controlled; within countries income is negatively correlated with religiosity. Looking across countries, the most religious countries have lower ladder values, which comes entirely from the fact that poorer countries are more religious and that income is strongly positively correlated with the ladder. ...

Once again, the more religious states are sharply poorer, and once income is controlled, the positive effect of religiosity returns.

The sharpest puzzle here is why the religiosity advantage for individuals does not carry through to the country averages. There is a similar puzzle with health; within countries, poor health is strongly negatively correlated with life evaluation yet, conditional on income, life expectancy adds nothing to the prediction of country average ladder scores, see Deaton (2008).

For daily happiness, these paradoxes do not exist. Religious people experience more happiness each day, and religious countries also experience more happiness on average. Religious Americans are happier, and religious states in America are happier. Controlling for income makes little difference to these results. In this case, judged by the correlations, daily happiness does better than evaluative wellbeing, but without understanding why, we have no basis for choosing between them.

The individual versus aggregate religion puzzle appears in another form in the American data. While more religious people do better, more religious states experience more social pathologies, including crime, smoking, divorce rates, teen birth rates, venereal disease, and poor health, see David Myers (2012)... The citizens of more religious states are generally unhealthier, not just more at risk of dying from assault.

With fifty observations, there is an obvious risk of spurious correlations, so we have replicated the results using county level data, including all counties for which the Gallup data have at least 50 observations, giving 3,094 matched counties with both Gallup and CDC data. A county-level regression of the age-adjusted all-cause mortality rate on religiosity has a coefficient of 4.36 and a t-value of 24. A move from San Francisco County, California, where 31 percent of respondents said that religion was important in their daily lives, to one of the several counties in Georgia, Kansas, or Texas, where everyone said so, would increase the age-adjusted mortality rate by 3.01 deaths per 100, compared with a US average of 8.31, with a standard deviation over counties of only 1.45. The introduction of obvious possible confounders, like log income, fraction white, and even average daily happiness and average ladder values, reduce the effect to 2.84 (the coefficients on income, white, happiness and ladder are all negative; conditional on religion, mortality rates are negatively correlated with happiness, life evaluation, and fraction of the population that is white.)

Why might there be this sharp contradiction between religious people being happy and healthy, and religious places being anything but? As with the other puzzles in this paper, we can only suggest possibilities. One story is that religiosity is a response to a hostile environment, not the cause of it. People are religious in countries where incomes are low, disease is prevalent, personal insecurity is high, and where the state has little capacity or control, so that there are low quality and/or ineffective public services. Religion provides a partial refuge, from disease and distress when it can, and a promise of relief in the next world when it cannot. As states gain capacity to provide for the economic and personal security of their citizens, religiosity declines, and this is one version of the secularization hypothesis, see in particular Ronald Inglehart and Pippa Norris (2001). This theory does relatively little to explain why the US is so religious compared with other rich countries but does a much better job of explaining variations within the US, as we have seen.

### **III. Other puzzles and conclusions**

We have discussed two unresolved puzzles that we believe deserve further attention. There are many others. The most famous is the Easterlin paradox that in spite of the positive effect of income on life evaluation and on happiness, there appears to have been little effect of economic growth. That there is a paradox at all has been robustly challenged by Daniel Sacks, Betsey Stevenson, and Justin Wolfers (2012), and Easterlin's counter-evidence rests heavily on long-run Chinese data of dubious comparability. This literature typically does not make the distinction between evaluative and hedonic measures that is so important here.

Other puzzles concern conflicts between human agency and the evaluation of that agency, as when greater autonomy for women is associated with a decline in their self-reported wellbeing, Stevenson and Wolfers (2009), or when people are less satisfied with their lives when they have children, the vast majority of whom were willingly and even joyously conceived, see Thomas Hansen (2012) for a review. These findings are a good deal less puzzling to psychologists than to economists. According to the former, people suffer from focusing illusions: if women are asked about their increased freedom, and so focus on it, they will say that it makes them happy, but report lower happiness when they are not thinking about it: if parents are asked about their children, they will report that their parenthood is the most important and satisfying thing in their lives, but report lower life evaluation when asked about their lives in a questionnaire in which children are not the focus. Time spent with children is remembered fondly, but not rated very highly at the time. Yet, these explanations do not help us with welfare assessments, nor with the role of SWB measures in the kind of welfare that we seek to promote. To many of us, the capacities that come with greater freedom are as or more important than what we report about our feelings having been granted that freedom.

**SOURCE:**

Based on the paper (с сокращениями) Deaton, A., & Stone, A. A. (2013). Two happiness puzzles. *American Economic Review*, 103(3), 591-97.

**QUESTIONS:**

1. What are the reasons for using subjective well-being (SWB) in social and economic analysis?
2. Is it possible to use a simple correlation between economic factors and SWB in serious analysis? Please explain your point of view.
3. What are the main “puzzles” specified in the article?
4. Do you think the authors could solve the “puzzles”? Are their results still paradoxical?
5. What do you know about SWB and happiness in your country (region)? Are there any “puzzles” with these indicators there?
6. Could you briefly describe how do the authors measure SWB and happiness? How reliable are these measurements in your opinion? Do you know other approaches, scales and alternative surveys for SWB and happiness estimation, please describe them briefly?
7. The authors refer to the problem of externalities. Please give 2-3 examples of the externalities beyond the article.
8. What is “Easterlin paradox”? Was it verified by the results of the other researchers?
9. After all could you briefly illustrate the possible mechanism of the SWB and happiness influence on demographic and economic development