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THE LOGIC OF COLLECTIVE BELIEF

Bryan Caplan

ABSTRACT

Many political failure arguments implicitly assume that voters are irrational. This article argues that this assumption is both theoretically and empirically plausible: in politics, rationality, like information, is a collective good that individuals have little incentive to supply. In consequence, voters are frequently not only rationally ignorant but also 'rationally irrational'. Rational irrationality leads to both demand-side and supply-side political failures: competition not only pressures politicians to act on voters' biased estimates, but selects for politicians who genuinely share those biases. The analytical framework also sheds new light on log-rolling, political shirking and advertising, and politicians' human capital.

KEY WORDS • collective choice • irrationality • political failure

The trouble with people is not that they don't know but that they know so much that ain't so. Josh Billings, in Caruth and Ehrlich (1988: 205)

1. Introduction

Theories of political failure have been criticized for assuming that voters are irrational¹ (Becker 1976; Stigler 1986; Wittman 1989, 1995; Austen-Smith 1991; Coate and Morris 1995; Caplan 2001a). Few *explicitly* appeal to voter irrationality, but as Coate and Morris (1995) observe: 'It is by no means clear that the Virginia view [that inefficient transfer programs exist] can be justified without making such unreasonable assumptions'² (p. 1212). Political failure models often seem to assume implicitly that voters' beliefs about policy are systematically biased. But imperfect information as standardly modeled (Akerlof 1970) does not bias the beliefs of rational voters; it merely increases their estimates' variance.³ Similarly, imperfections like monopolistic elections or high transaction costs

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can imply political failure; but if political 'industry structure' is itself an endogenous product of collective choice, it is unclear how inefficient institutions win rational voters' support in the first place.

This article maintains that the critics of political failure are incorrect to dismiss the possibility of voter irrationality as 'unreasonable'. It presents a model of 'rational irrationality' in which economic agents have preferences over beliefs as well as outcomes, so irrationality increases as its private cost decreases (Akerlof and Dickens 1982; Caplan 2001b). In a 'Downsian' environment where the cost of erroneous beliefs is negligible, the standard arguments for rational expectations (Muth 1961; Pesaran 1987; Sheffrin 1996) have little force. The incentive structure that makes the variance of beliefs large ipso facto tends to bring out voters' irrational biases. As a corollary, voter rationality – like voter information – will normally be an under-produced collective good (Olson 1965, 1982). Individual voters can cheaply indulge their systematically biased beliefs at the ballot box knowing that they are extraordinarily unlikely to alter the outcome (Akerlof 1989).

This groundwork laid, the heart of the article then analyzes how rational irrationality influences both the demand and supply sides of the political process. The main finding is that rational irrationality leads even voters with identical preferences and endowments to vote in favor of inefficient policies. Whether voters' beliefs are rational or irrational, electoral competition pressures politicians to do what voters want. Indeed, as Fremling and Lott (1996) suggest, winning politicians will probably sincerely share the confusions of their constituents. It is costly for politicians to have biased estimates of voters' reactions to their decisions, but cheap to have biased estimates of policies' actual effects.

The next section reviews my rational irrationality model, applies it to political beliefs, and provides illustrative empirical evidence. Section three analyzes the mechanisms connecting rational irrationality to demand-side political failures; section four does the same for supply-side failures. Section five concludes.

2. Rational Irrationality and Political Beliefs

(a) Theory

Economists have explored imperfect information in great detail, but often remain reluctant to deal with imperfect rationality. Even models that highlight imperfect information normally assume rational expectations; thus, though information may be scarce, agents always *process* that information in a fully rational way (Pesaran 1987; Sheffrin 1996). This underlies the standard practice of equating lack of information with pure measurement error; the beliefs of the ignorant have higher variance than those of the well-informed, but identical means.

An appealing alternative, though, is to model *both* information and rationality as choice variables. As Conlisk puts it: '[I]t is natural to view decisions as "produced" by a decision technology with *two* inputs, costly information-gathering and costly deliberation' (1996: 690; emphasis added). This makes room for *systematically biased* estimates, rather than just imprecise estimates: If variance falls as agents become better informed, bias similarly shrinks as agents become more rational (see Figure 1).

The current article builds on my previous effort (Caplan 2001b) to model irrationality, which I call 'rational irrationality'. Rational irrationality is an economic theory of agents' equilibrium *departure* from rational expectations – and the magnitude of the associated systematic biases. This theory hinges on two main assumptions.⁴ First, agents always have rational expectations about the price of irrationality. This is what differentiates *rational* irrationality from full-blown irrationality: on some level, people form unbiased estimates of the repercussions of irrationality. Second, demand

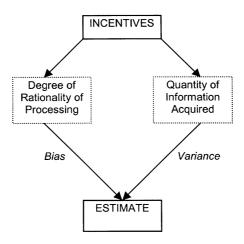


Figure 1. Incentives and Estimation

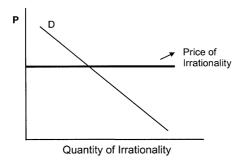


Figure 2. The Demand for Irrationality

for irrationality is downward-sloping. Ceteris paribus, expected material wealth is greater for actors with rational expectations, but you may be willing to forego *some* wealth in order to retain cherished – though irrational – beliefs. Assuming for convenience that costs are proportional to the degree of bias, the price of irrationality may be drawn as a horizontal line. The optimal quantity of irrationality (degree of systematic bias) is at the intersection of the agent's demand curve and the exogenously fixed price of irrationality (Figure 2).

By definition, a person who consumes zero irrationality has rational expectations. The irrationality demand curves of standard neoclassical agents with no preferences over beliefs are therefore vertical at q=0; these are termed 'neoclassical' preferences. While I leave open the possibility that real individuals seriously deviate from neoclassical preferences (Caplan 2000), the conclusions of this article rely only upon the relatively weak assumption that agents have 'near-neoclassical' preferences and associated demand-for-irrationality functions (Figure 3). Near-neoclassical agents buy zero irrationality when the price of irrationality is significant, but as the price approaches zero their consumption of irrationality sharply increases. Normally, the near-neoclassical have rational expectations, but when error costs become trivial, they give in to their irrational side.

A key feature of beliefs is that some have practical consequences for the individual adherent, while others do not. For example, the belief that protectionism is a wealth-enhancing national policy makes little difference for the individual adherent, who still enjoys the benefits of international trade. But holding that household

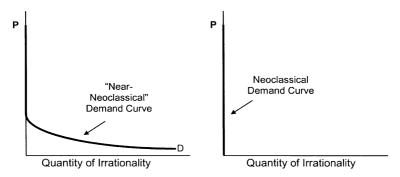


Figure 3. Neoclassical vs 'Near-Neoclassical' Demand for Irrationality

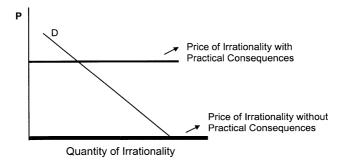


Figure 4. Price-Sensitivity of the Demand for Irrationality

self-sufficiency is the path to prosperity has large private costs. Figure 4 shows the contrast. People restrain their consumption of irrationality when it is costly; but if its price is zero they consume irrationality until they are 'satiated'. In elections or surveys, for example, agents with near-neoclassical preferences will have plainly irrational views, even though those with neoclassical preferences remain fully rational.

(b) The Regress Problem

But can we simply posit that agents optimally select their degree of rationality and work through the comparative statics? One prominent objection to this approach is that any 'choice to be irrational' implies an infinite regress.⁶ As Conlisk puts it:

[A] treatment of deliberation cost seems straightforward at first glance. Simply include that extra cost. However, we quickly collide with a perplexing obstacle. . . . The difficulty is that the augmented optimization problem will itself be costly to analyze; and this new deliberation cost will be neglected. We can then formulate a third problem which includes the costs of solving the second, and then a fourth problem, and so on. (1996: 687)

Conlisk goes on to state that: 'There is no reason to suppose that sequences [of deliberation] . . . will often converge . . . or, if convergence occurs, that the limit corresponds to any problem descriptive of a decision maker' (1996: 687).

In contrast to Conlisk, I maintain that there is an excellent reason to suppose that these sequences converge: people have beliefs. Just as the existence of motion is strong evidence that Zeno's famous sequences converge (Copleston 1985: 54–8), the existence of beliefs is strong evidence that Conlisk's sequences do the same. One easy and empirically plausible way to get such convergence is if people allocate zero mental effort to all deliberation above a certain level. Admittedly, one might question the optimality of this procedure, but I at least find it difficult to see the gross benefits of spending any of my time on fifth-level deliberation, much less fiftieth-level deliberation.

In any event, this article focuses on rationality in an exceptionally transparent case: Downsian environments where the probability one vote will be decisive is essentially zero (Downs 1957; Olson 1965; Brennan and Lomasky 1993). However seriously one takes the infinite regress problem in general, it is hard to avoid the conclusion that the optimal level of rationality in a Downsian environment will be much lower than usual. Once your second-level deliberation tells you that you can commit first-level errors with impunity, what more is there to ponder?

(c) Why Irrationality Matters and Ignorance Is Not Enough

The distinction between ignorance and irrationality is important because – as critics of political failure arguments point out – rational political actors have workable methods for coping with ignorance. Voters do not normally have to personally bear the costs of informing themselves; the media, politicians, and interest groups have an incentive to supply information for free (Popkin 1991; Wittman 1995). If politicians or special interests disseminate biased information, rational voters will discount it in favor of more objective

sources. If there are asymmetric information problems, rational voters respond by buying *less* government. The programs they support in spite of imperfect information will therefore be (on average) a net benefit; only the programs that credibly signal their merit win approval (Breton and Wintrobe 1982; Wintrobe 1987; Austen-Smith 1991). If it is costly to monitor politicians, rational voters can compensate with a punishment multiplier (Becker 1968; Bender and Lott 1996).

In contrast, it is much more difficult to compensate for irrationality than ignorance. The rationally irrational agent acts as if his biased beliefs were actually known to be true: it makes no difference whether the agent incurs the information costs or someone else pays for him. A person with irrationally favorable estimates of the benefits of protectionism, for example, could easily maintain that he already has all of the information about international trade he needs. If one branch of the media tries to correct him, he tunes it out in favor of competing media that tell him what he wants to hear. Similarly, irrational voters may enthusiastically support programs of unknown quality, denying that an asymmetric information problem even exists. In other words, the rationally ignorant at least acknowledge that they have a problem, so they are open to compensatory political measures. Politicians who support such measures win the voters' favor. The rationally irrational, however, deny that they have a problem; they don't want the political system to 'help them' overcome their irrational biases. In their eyes, such compensatory political measures are useless at best, and insulting at worst. Politicians who support them have little to gain and much to lose

Evidence

For an overwhelming majority of people, political beliefs are costless. Elections and surveys have a clear impact on policy, but the odds are near zero that one vote will change an election's result, or one respondent will change measured public opinion. Neither can arbitrage make the electorate act 'as if everyone had rational expectations' (Muth 1961: 330). Rational and irrational voters live under the same policies; there is no place for arbitrage when your payoff and your behavior are unconnected. In politics, irrationality is close to free. The theory of rational irrationality thus predicts an unusually high level of irrationality in politics. Space constraints make a comprehensive examination of political irrationality impossible. The following instead focuses on one cluster of irrational beliefs: so-called 'populist' attitudes and the systematically mistaken *descriptive* beliefs about the economy that underlie them.

Populism jointly blames foreigners, welfare recipients, and business for most national problems, and prescribes some unorthodox solutions. Even though economists across the political spectrum tend to oppose populist economic policies as ineffective or counterproductive, they have substantial public support (Saad 1996). Opposition to policies perceived to benefit foreigners is particularly pronounced: only 6.3% of respondents to the General Social Survey (1996; henceforth GSS) favor increasing immigration by any amount, and fully 65.4% favor decreasing it; similarly, 74.2% hold that too much is spent on foreign aid.

Policies to regulate business and create jobs are likewise quite popular, considering economic analysis of their effects. Data from the GSS indicate that solid majorities strictly favor relatively moderate populist efforts such as 'make work' programs and support for declining industries (Table 1). Even for two drastic populist measures – price controls and 'share the work' policies – the median respondent is indifferent (although opponents do outnumber proponents).

Table 1. Support for populist economic policies (%)

Prompt: 'Here are some things the government might do for the economy.'	Strongly in Favor	In Favor	Neither	Against	Strongly Against
'Government financing of projects to create new jobs.'	25.8	43.7	19.0	9.0	2.5
'Supporting declining industries to protect jobs.'	15.9	35.7	26.4	17.9	4.2
'Control of prices by legislation.'	9.0	27.7	23.9	27.6	11.8
'Reducing the work week to create more jobs.'	7.4	17.7	31.9	31.5	11.5

Source: GSS. Variable identifiers: MAKEJOBS, SAVEJOBS, SETPRICE, CUTHOURS.

It is conceivable that populism is a pure preference, but in practice it is closely linked to systematically mistaken factual claims. The public seriously overestimates the fraction of the federal budget spent on welfare and foreign aid. When the National Survey of Public Knowledge of Welfare Reform and the Federal Budget (1995, Table 16) asked the public to name the two 'largest areas of government spending' from a list of six areas (foreign aid, welfare, interest on the federal debt, defense, Social Security, and health), only 37% and 14%, respectively, correctly named defense and Social Security. 'Foreign aid' was the *most* frequently cited: 41% thought that it was one of the two largest areas of federal spending, even though in reality it is less than 1% of the federal budget. 'Welfare' came in second: 40% ranked it as one of the two largest federal programs.⁹ With estimates this biased, the unpopularity of foreign aid and welfare is easy to understand.

Similarly, on average, the public underestimates the applicability of textbook supply-and-demand analysis of adverse shocks. The Survey of Americans and Economists on the Economy (1996, Question 26) asked: 'Which do you think is more responsible for the recent increase in gasoline prices: the normal law of supply and demand, or oil companies are trying to increase profits?' Only 22% of the general public accepted the supply-and-demand explanation, compared to 85% of economists, while 73% and 8%, respectively, affirmed the second explanation. Such reactions are typical: see Fremling and Lott's (1989, 1996) discussion of public opinion and the 1970s oil shocks.

The Survey of Americans and Economists on the Economy's (1996) battery of questions asking the general public and professional economists to assess various explanations for 'why the economy is not doing better than it is' provides further evidence that populism rests on systematically erroneous *descriptive* views. On questions about welfare, foreigners, and business, the public's and economists' estimates could hardly be more different (Table 2). Moreover, Caplan (2001c, 2002) shows that a large belief gap between economists and the public persists even controlling for income, income growth, job security, gender, race, age, partisan affiliation, ideology, and education.

If the disparity were due to information costs, one would expect the relatively uninformed opinions of the public to be widely but approximately evenly dispersed around economists' mean estimates. Instead, the general public tends to see 'major problems' that experts

Table 2. The public and economists on 'why the economy is not doing better than it is' (%)

Explanation	Major Reason	Minor Reason	Not a Reason	No Opinion
General public				
Too many people are on welfare	70	22	7	1
Foreign aid spending is too high	66	23	10	1
There are too many immigrants	47	32	19	1
Companies are sending jobs overseas	68	25	6	1
Business profits are too high	46	36	17	1
Technology is displacing workers	46	38	15	1
Companies are downsizing	59	30	9	2
Economists				
Too many people are on welfare	11	50	39	0
Foreign aid spending is too high	1	13	86	0
There are too many immigrants	1	19	80	< .5
Companies are sending jobs overseas	6	35	58	< .5
Business profits are too high	4	11	85	1
Technology is displacing workers	2	24	74	< .5
Companies are downsizing	5	38	57	0

Source: Survey of Americans and Economists on the Economy, Questions 27 and 29.

doubt are problems at all. The divergence is smallest on welfare: a majority of both groups does agree that 'too many people on welfare' is a problem. The general public, however, overwhelmingly sees it as a 'major reason why the economy is not doing better than it is', while only 11% of economists concur. On the remaining questions about foreigners and business, the divide is still greater. In each of the six cases, the plurality of the public sees a 'major reason' for the economy's shortcomings, while a majority of economists deny that the proffered explanation matters at all.

Given even a weak taste for populist beliefs among the public, it is easy to explain why many embrace extreme populist conclusions: relative prices matter. It is all but impossible for one voter's populism to actually make policy more populist, so from the point of view of the individual, political populism is a free good. Such mistakes are much more costly in market settings. If you irrationally judge that immigrants cannot competently run convenience markets, you will probably have to pay higher prices or more shopping time to avoid this phantom threat. No comparable private cost

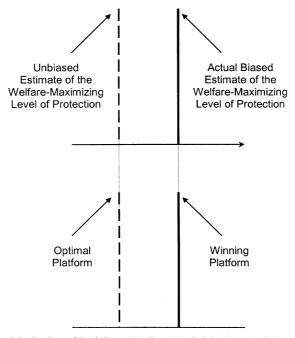
attaches to voters with the irrational belief that immigrants threaten the survival of the nation.

3. How Rational Irrationality Causes Political Failure: The Demand Side

Markets may function 'as if' everyone had rational expectations even if most people do not (Camerer 1987). Does the same apply to politics? This section shows that when standard models of competitive democracy aggregate the preferences of rationally irrational voters, outcomes have no particular tendency to be more rational than the voters themselves (Frey and Eichenberger 1991). As discussed in section 2(c), it is much easier for institutions to compensate for voters' rational ignorance than for their rational irrationality. The rationally ignorant at least admit that they are uninformed, so when someone (the media, politicians, etc.) gives them additional information for free, they take full advantage of it. The rationally irrational see matters differently: they think they already know the right answer. Giving them evidence that their judgments are mistaken is unlikely to change their minds. Even if unwanted information is provided free of charge, it is also freely disposable.

Suppose that voters with identical endowments and preferences participate in a one-dimensional majoritarian competitive election. ¹⁰ It appears as if democratic elections would necessarily be efficient. Whichever politician had the platform closest to the electorate's shared most-preferred policy would get 100% of the votes; political competition forces the winner to implement the welfare-maximizing platform (Becker 1958). But if these identical voters also have preferences over beliefs, this inference is invalid. Each voter maximizes his utility, but this does not maximize the utility of voters as a group.

To understand the mechanism, suppose that identical citizens share a near-neoclassical preference for overestimating the welfare-maximizing level of protection. When the price of bias is zero, they all want to believe that some level of harmful protectionist policies will actually make them better off. The higher their estimate of this welfare-maximizing level of protection, the more protection they want and are willing to vote for. Note that no individual can appreciably change the election's outcome, so as usual the private cost of irrationality is zero. At the margin then, each person chooses to irrationally overestimate the benefits of protection – and votes



<u>Top</u>: Distribution of Beliefs on Welfare-Maximizing Level of Protection <u>Bottom</u>: Distribution of Most-Preferred Platforms on Protection

Figure 5. Electoral Impact of Irrationality with Identical Voters

accordingly. Given identical voters and competitive elections, the Pareto-inferior protectionist platform wins unanimously (Figure 5).

The same model can be used to understand elections regardless of whether citizens condition their votes on policies (e.g. Wright et al. 1987) or outcomes (e.g. Markus 1988). People might hold biased beliefs about the effectiveness of specific policies, such as protectionism. But they could also make biased judgments about how well the economy is doing. Many might resist evidence that, for example, a personally likeable president was an incompetent economic policy-maker. Similarly, both retrospective and prospective voting (Conover et al. 1987) can be analyzed with the same basic model. In politics, individuals can form systematically biased beliefs about past and future alike with equal safety.

When voters are identical in every way, any policy-relevant demand for irrationality at P = 0 therefore implies political failure. If one person holds a specific irrational belief, so does everyone else.

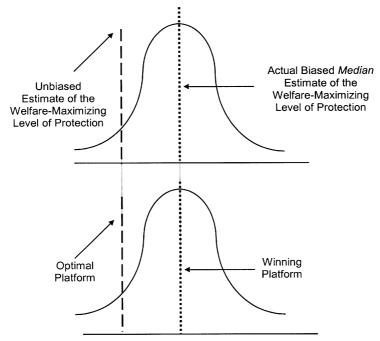
People accordingly vote for whatever policies they would most prefer were their beliefs correct, and competitive elections make those policies a reality.

What about the utility of the irrational beliefs themselves? Doesn't this compensate for the disutility of worse policy? The answer is that with near-neoclassical preferences, the benefits of irrational political beliefs can be safely ignored. Since individuals' demand for irrationality falls to zero at a small positive price, the total surplus associated with the irrational beliefs is trivial. But more serious deviations from rationality moderate this result: Akerlof (1989: 10) shows that efficient policies must discount – but not completely ignore – the value that citizens derive from irrational political beliefs. The intuition Akerlof's piece shares with mine is that electoral outcomes are inefficient because they respond to preferences over beliefs 'at par' even though the private and social costs of irrationality differ. ¹¹

Allowing for *heterogeneous* near-neoclassical belief preferences while retaining the assumption that voters are identical in every *other* respect partially mitigates the inefficiency of irrationality. In this case, political failure does not automatically accompany irrationality, because one person's irrationality could conceivably 'balance out' the irrationality of others. For instance, voters who irrationally overestimate the problems with 'big government' tend to offset those who irrationally underestimate them.

Consider the distribution of beliefs about protection that a population of otherwise identical citizens will hold when the price of irrationality is zero (Figure 6). Since voters support different policies solely because they have different beliefs, the median voter and the median believer are the same person. If irrational free-traders and irrational protectionists are equally numerous, for example, the median *belief* remains unbiased. Winning policies then mimic those that would have arisen with a fully rational electorate; in both cases, the median voter has rational expectations and is decisive. Conversely, if the median belief *is* biased, then the winning policies reflect that bias. The magnitude of political failure is not determined by the absolute level of irrationality; it is rather an increasing function of the degree to which the *median* belief strays from unbiasedness (Figure 6). Lop-sided bias is the key.¹²

The connection of irrationality to political failure should not be downplayed on this ground. If irrationality is a taste rather than random measurement error, there is no a priori reason to expect it to balance out and leave the median belief unbiased. Public opinion



<u>Top</u>: Distribution of Beliefs on Welfare-Maximizing Level of Protection <u>Bottom</u>: Most-Preferred Degree of Protectionism

Figure 6. Electoral Impact of Irrationality of Otherwise Identical Voters with Heterogeneous Beliefs

often *does* exhibit strong lop-sided biases. Xenophobes vastly outnumber xenophiles. People who blame oil companies for shortages are overwhelmingly more numerous than people who blame price controls. People who underestimate the fraction of the budget spent on welfare are few compared to people who overestimate it. These sorts of mainstream biases drive political failure as the irrationality of a few extremists cannot.¹³

Consider a population of otherwise identical voters calibrated to have the same distribution of beliefs as the American public (Table 2). Since they differ solely in their beliefs, citizens in this thought experiment vote differently only because they disagree about positive economics. The more harm they think foreign aid causes, for example, the less foreign aid they are willing to vote for. The 10% of the electorate that denies that foreign aid adversely

affects economic performance will be more supportive of foreign aid than the 23% of the electorate that sees it as a 'minor' problem; they in turn will favor more foreign aid than the 66% that view it as a 'major reason' for subpar economic performance. In a standard competitive election, foreign aid platforms would satisfy the familiar median voter story. What makes the electoral outcome unusual is that the median voter and the median believer are identical. The winning foreign aid platform, for example, reflects the median belief that foreign aid is a major drag on economic performance. So the winning platform probably provides minimal foreign aid. If (as the contrasting belief distribution of economists suggests) the median belief about the effects of foreign aid is far from the truth, then the equilibrium policies are far from the optimal policies.

Political failures resulting from irrationality are a classic collective action problem: Everyone can be better off if the median political belief deviates less from rational expectations. The optimality of the outcome depends on the median degree of bias, but voters choose their beliefs knowing that they will not significantly change that median. The problem is not irrationality per se, but the fact that its consequences spill over onto other people; irrationality is socially costly but privately free. In contrast, if people use astrology to make career or marriage decisions, the cost of irrationality is private. The standard welfare theorems apply.

Note that in this setting log-rolling or other political bargains may actually exacerbate inefficiencies, leading to suboptimal policies even when the median belief is rational. The fundamentals underlying political deals – like all political decisions – are voters' actual beliefs given their incentive structure. Suppose that 90% of the population rationally perceives that the net benefit of foreign oranges is \$10 per person, but 10% of the electorate irrationally perceives a net harm of \$200 per person. Individuals in both groups might support a political compromise to ban foreign oranges, tax \$99 from each member of the irrational minority, and redistribute \$11 to each member of the rational majority. The members of the rational majority support it because they correctly see that they benefit by \$1. At the same time, individuals in the irrational minority individually still face a zero marginal cost of irrationality, so they have no incentive to acknowledge that their net benefit from this political deal is -\$299, not +\$101.

Collective action problems mean foregone gains to trade. Yet if voter irrationality is the problem, it will be hard to correct with

ordinary log-rolling. Political trades need the majority's support given *private* payoffs. Since people who change their mind cannot be distinguished from those who remain irrational, 'bribing' them does not change *marginal* incentives. Each voter has the incentive to free-ride off the rationality of the electorate as a whole, subconsciously figuring 'The deal will pass (fail) whatever I think, so why change my mind?' Bribe or no bribe, agents are individually better off if they deny that their beliefs are irrational, retain those beliefs, and vote on the basis of them.¹⁴

4. How Rational Irrationality Causes Political Failure: The Supply Side

Competitive pressure would force standard fully rational politicians to offer the policies that irrational voters want. But if rational irrationality is an important factor in politics, how likely are *politicians* to have rational expectations? And does this have any implications for political outcomes?

Politicians, just like other people, may prefer some beliefs over others. But unlike average voters, politicians often do have a significant probability of affecting outcomes, and their efforts have direct repercussions. A politician who does not have rational expectations about the impact of his policy stances on his career pays a high price, so in this area the standard arguments for rationality (Muth 1961) are compelling. Politicians who systematically misunderstand voters' feelings forego large opportunities for political profit. They have an incentive to learn from mistakes and hire expert advice. Systematic mistakes about what voters want leave incumbents vulnerable to takeover bids from more rational challengers. Furthermore, we should expect people with rational expectations about voters' preferences to self-select into the political arena.

Other systematic mistakes about their technology for producing votes are similarly unlikely: politicians cannot afford to have irrational expectations about the number of votes the marginal PAC dollar buys, the probability the press will uncover skeletons in their closet, or the likelihood that evidence of current indiscretions will leak out. Rationality about expected compensation pays too: politicians are unlikely to have irrational expectations about their level of fringe benefits, or the extent to which political experience will ultimately increase their market wage after they leave office.

However, it does not follow that politicians will be rational about the *actual impact* of the policies that they implement. They merely need to gauge voters' *reaction* to their policies; if the voters have irrational expectations about what policies will accomplish, a politician who rationally second-guesses them gets little benefit. In fact, if it is indeed impossible to fool all of the people all of the time, politicians who share the irrational assessments of their constituents may actually be at a competitive advantage compared to rational politicians who cynically pander to the prejudices of the electorate. ¹⁵ As Fremling and Lott (1996) observe:

The public choice problem is not necessarily dependent on asymmetric information where knowledgeable vote-maximizers deceive the voters. For example, voters could successfully sort into office politicians who intrinsically value the same positions as the voters. . . . If so, the result could be 'populist' politicians who take the positions of the voters even when this may have foolish consequences. Political candidates who realize the adverse consequences of the 'populist' agenda would not be elected. (p. 290)

These peculiar incentives also help explain the kinds of human capital that politicians are most likely to have. The economic role of government has greatly expanded since the New Deal, but the percentage of congressional representatives with professional training in economics remains negligible (Amer 1998). Instead, the modal politician's degree is in law; '70 percent of the presidents, vice presidents, and cabinet officers of the United States and more than 50 percent of the U.S. senators and House members' have been lawvers (Dye and Zeigler 1996: 295). Economic issues are important to voters, but they don't want politicians with economic expertise – especially not those who will lecture them and point out their confusions. 16 The electoral process instead picks individuals who are professionally trained to gauge the emotions of an audience, to weigh how it will react to different kinds of rhetoric, and to plead a case as persuasively – and sincerely – as possible regardless of its merits.¹⁷ The people who make economic policy do not know much economics (Stiglitz 1998), but they do know how to figure out the most engaging way to tell people what they want to hear. Indeed, as Fremling and Lott hint, more knowledge about economics could be a dangerous thing for a politician, making it harder to sincerely embrace popular positions.

By itself, the irrationality of voters provides politicians with no additional 'slack' or opportunity for shirking. However, certain

kinds of irrational beliefs could easily have this effect: specifically, overestimates of the reliability of another person's judgments. The Pope, for example, has wide latitude to dictate many people's opinions on faith and morals. The reason is not irrationality per se (which by itself would still constrain the Pope to say what Catholics want to hear in order to retain members), but rather that many people believe that the Pope's rulings on these matters are infallible. Fanatical followers in totalitarian movements often provide their leaders with comparably loose constraints. 'The Duce is always right' (Gregor 1969: 120) went a popular Fascist slogan; or as Rudolf Hess declared in 1934:

With pride we see that one man remains beyond all criticism, that is the Führer. This is because everyone feels and knows: he is always right, and he will always be right. The National Socialism of all of us is anchored in uncritical loyalty, in the surrender to the Führer that does not ask for the why in individual cases, in the silent execution of his orders. We believe that the Führer is obeying a higher call to fashion German history. There can be no criticism of this belief. (History Place 1996)

In democracies, charismatic political leaders – or more mediocre personalities wearing the mantle of traditional authority – could enjoy the same sort of slack on a smaller scale. This helps explain why frequently opinion polls show opposition to policies before they pass, but support after the government approves them. If no new information about the efficacy of the new policies has arrived, then what the electorate must find convincing is the very fact that they were mandated by leaders and institutions they put their faith in. Such faith gives politicians the 'wiggle room' for ideological (or other) shirking for which most competitive political models cannot account (Bernstein 1989; Bender and Lott 1996).

Consider the case of NAFTA. As one might be led to expect from the discussion of populism in section 2(d), a large majority was against NAFTA from the outset. Resistance diminished in the face of Clinton's campaign for passage (Tonelson 1997). Still, about two weeks prior to passage, a majority continued to oppose it, with 46% against and 38% for (*Los Angeles Times* 1993a). Both houses of Congress approved it anyway. About two weeks after approval, public opinion had reversed, with 41% for and 27% against (*Los Angeles Times* 1993b). Though the public gradually reverted to its protectionist priors, majority support for NAFTA persisted for

over a year, with no apparent long-run damage to Clinton's popularity (Tonelson 1997).

Similarly, there is nothing about irrationality in general that implies that uninformative or misleading political advertising works – especially when funded by self-serving interest groups. 18 But specific kinds of deviations from rational updating will have these effects. Voters may be willing to condition their beliefs on emotionally compelling, logically irrelevant signals; hence, the prominence political ads give to rivals' sexual improprieties and other personal scandals. Or voters may over-weight signals that do have some logical relation to the facts; hence, politicians' heavy reliance on startling anecdotes like the Willie Horton story rather than aggregate crime statistics (Olson 1982: 26-27; Tversky and Kahneman 1982; Popkin 1991; Kuran and Sunstein 1999). Or voters may disregard information too boring or unpleasant to think about; hence, the conspicuous absence of seemingly win-win feats of political entrepreneurship like one-time cash buyouts of inefficient special interests. Depending upon the rationality of voters' updating procedures, more 'informed' opinion may not be an improvement over full ignorance.

Supply-side forces tend to amplify the equilibrium impact of such irrational updating. The media want to entertain citizens; politicians, to influence their votes. If informing voters achieves these ends, the media and politicians have an incentive to distribute free information (Wittman 1989, 1995; Popkin 1991). But this may be 'information' only in a loose sense of the word (Schumpeter 1976). If voters respond well to anecdotal evidence, for example, this gives the media and politicians incentives to deliver more anecdotes. Conversely, if audiences tend to ignore economic analysis of policy. little economic analysis will be supplied. Neither the media nor politicians are likely, for example, to pay attention if academics mail them reprints of academic articles exposing abstruse government failures, as Wittman (1995: 99) recommends. The way for the journalists to get viewers and readers, and for politicians to get votes, is not to provide objective information, but to tell people what they want to hear. If the audience does not care, neither will information providers.

5. Conclusion

Political failure models with fully rational agents promise more than they can deliver, explicitly denying the existence of irrationality while covertly assuming it (Breton and Wintrobe 1982; Wintrobe 1987; Wittman 1989, 1995; Coate and Morris 1995; Caplan 2001a). Appealing to 'poorly designed institutions' (Holcombe 1985: 4) rather than voter irrationality makes it difficult to understand why rational voters approved poorly designed institutions in the first place. Even with dysfunctional institutions, fully rational voters have an array of strategies to cheaply advance their interests. Consider for example Crew and Twight's (1990) account of political failure: '[I]t is not simply a matter of the public's being fooled or tricked. It is at root a story about rational political inaction by individual taxpayers in the face of changing transaction-cost constraints' (p. 24). But with rational voters, this effort to expand the scope of government would backfire: Deliberately raising transaction costs signals programs of poor quality, reducing voters' willingness to pay for them. Amplifying their information costs would be equally futile: the rational response to asymmetric information is to buy less, not more (Breton and Wintrobe 1982). Rational voters could in effect say: 'If the benefits of the program are not obvious, I'm against it.' Facing such scrutiny, programs' promoters would want to make their case transparent to prove they have nothing to hide.

'Governments do pursue inefficient policies. But are these due to voter and politician irrationality or are they systematically related to the constraints of the system as the rational model would predict?" (Coursey and Roberts 1991: 87). I maintain that this is a false alternative: voter and politician irrationality arises from the constraints of the system as the rational model predicts. When irrational bias is privately costless, people consume more irrational bias. When politicians compete for the favor of voters with irrational biases, the winner tends to share those biases. Just as the logic of collective action shows that agents may rationally choose to pollute even though their collective pollution makes them worse off, the logic of collective belief shows that agents may rationally choose irrational political views even though their collective irrationality makes them worse off. The inordinate influence of irrationality in politics is not an anomaly for economists to explain away. It is precisely what an economic theory of irrationality predicts.

NOTES

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- For these critics, and in the terminology of this article, to be 'rational' is to have rational expectations, and to be 'irrational' is to fail to have rational expectations (Pesaran 1987; Sheffrin 1996). By definition, fully rational agents may make mistakes, but not systematic ones.
- 2. For some other recent responses to this line of criticism, see Rowley (1997), Boudreaux (1996), and Lott (1997a, b).
- 3. '[T]o be uninformed about the nature of pork-barrel projects in other congressional districts does not mean that voters tend to underestimate the effects of pork barrel it is quite possible that the uninformed exaggerate both the extent and the negative consequences of pork-barrel projects' (Wittman 1995: 15–16).
- Caplan (2000) provides a more fundamental derivation of the theory from indifference curves and budget constraints.
- 5. There are exceptions to this rule; in particular, if there is social pressure to be irrational on an issue, the price of irrationality could actually be negative. Such exceptional cases actually tend to strengthen this article's finding that irrationality will be unusually pronounced in politics: with social pressure, a minority of 'true believers' may induce a larger group of people to adopt an irrational belief they had no intrinsic inclination to accept. For a more detailed discussion of wealth-enhancing irrationality, see Caplan (2000).
- 6. I am indebted to an anonymous referee for bringing this issue to my attention.
- 7. This is especially clear for *motivational* biases, deviations from full rationality that arise from agent's emotional attachment to beliefs. Religious and political irrationality seem like especially good examples (Caplan 2001b). The bounded rationality literature (Conlisk 1996), in contrast, focuses primary on *cognitive* biases, deviations from full rationality that arise from problems' calculational complexity. Caplan (2000: 194) explains, though, the rational irrationality model can handle both sorts of biases.
- 8. Author's tabulation of the General Social Survey (1996). Variable identifiers LETIN and NATAID.
- 9. Because the term 'welfare' is open to interpretation, the same study also gave respondents a list of programs (the choices: 'food stamps', 'AFDC, or Aid to Families With Dependent Children', 'public housing', 'WIC, or the Women, Infants, and Children program', 'the school lunch program', 'Medicaid', 'SSI, or Supplemental Security Income', 'Medicare', and 'Social Security') and asked them to indicate which they considered to be 'welfare'. A majority of respondents

- counted food stamps, AFDC, public housing, WIC, school lunches, and Medicaid as welfare. These six programs comprised 10.2% of the 1993 federal budget. (National Survey of Public Knowledge of Welfare Reform and the Federal Budget 1995: Table 15)
- The first assumption is critical if we assume self-interested voting. If however citizens vote 'sociotropically' (Kinder and Kiewiet 1981), the identical endowment assumption could be dropped.
- See also Brennan and Lomasky's (1993: 28–30) welfare analysis of expressive voting.
- 12. If the mean and the median of the distribution of beliefs are equal, then political failure is an increasing function of the degree of deviation from 'rational expectations in the aggregate' (Haltiwanger and Waldman 1989).
- 13. Allowing for heterogeneous endowments and (non-belief) preferences complicates the welfare analysis, but the central intuition does not change. The clean connection between the magnitude of political failure and the median degree of bias, however, no longer necessarily holds, even supposing that the rational expectations median voter result would be optimal. The reason is that the type and magnitude of irrationality might interact with tastes, wealth, or other characteristics, so the 'median believer' is not the median voter. Balanced irrationality could then have an imbalanced impact on the median voter's preference.
- 14. One conceivable way around this problem (albeit one inconsistent with the secret ballot) is to condition payoffs on how an individual actually votes.
- 15. Or as Groucho Marx remarked, 'The secret of life is honesty and fair dealing. If you can fake that, you've got it made' (www.groucho-marx.com, 1999).
- 16. 'Only a presidential candidate with limited faculties would try to explain to American voters the economic differences between a tariff and a quota' (Magee et al. 1989: 260).
- 17. The main difference between legal pleading and political pleading is that a lawyer can get rich by defending unpopular clients, but few politicians can succeed by standing up for unpopular causes.
- 18. Gary Becker is surprisingly sympathetic to this view: `... I believe that voter preferences are frequently not a crucial *independent* force in political behavior. These "preferences" can be manipulated and created through the information and misinformation provided by interested pressure groups, who raise their political influence partly by changing the revealed "preferences" of enough voters and politicians' (Becker 1983: 392).

REFERENCES

Akerlof, George. 1970. 'The Market for "Lemons": Quality Uncertainty and the Market Mechanism.' *Quarterly Journal of Economics* 84: 488–500.

Akerlof, George. 1989. 'The Economics of Illusion.' *Economics and Politics* 1: 1–15. Akerlof, George and William Dickens. 1982. 'The Economic Consequences of Cognitive Dissonance.' *American Economic Review* 72: 307–19.

Amer, Mildred. 1998. 'Membership of the 105th Congress: A Profile.' Government Division. Order No. 97–37 GOV, July 17.

- Austen-Smith, David. 1991. 'Rational Consumers and Irrational Voters: A Review Essay on *Black Hole Tariffs and Endogenous Policy Theory*.' *Economics & Politics* 3: 73–92.
- Becker, Gary. 1958. 'Competition and Democracy.' *Journal of Law and Economics* 1: 105–9.
- Becker, Gary. 1968. 'Crime and Punishment: An Economic Approach.' Journal of Political Economy 76: 169–217.
- Becker, Gary. 1976. 'Toward a More General Theory of Regulation: Comment.' Journal of Law and Economics 19: 248–58.
- Becker, Gary. 1983. 'A Theory of Competition Among Pressure Groups for Political Influence.' *Quarterly Journal of Economics* 98: 371–400.
- Bender, Bruce and John Lott. 1996. 'Legislator Voting and Shirking: A Critical Review of the Literature.' *Public Choice* 87: 67–100.
- Bernstein, Robert. 1989. Elections, Representation, and Congressional Voting Behavior: The Myth of Constituency Control. Englewood Cliffs, NJ: Prentice Hall.
- Boudreaux, Donald. 1996. 'Was Your High School Civics Teacher Right After All? Donald Wittman's *The Myth of Democratic Failure*.' *Independent Review* 1: 111–28.
- Brennan, Geoffrey and Loren Lomasky. 1993. *Democracy and Decision: The Pure Theory of Electoral Preference*. Cambridge: Cambridge University Press.
- Breton, Albert and Ronald Wintrobe. 1982. The Logic of Bureaucratic Conduct: An Economic Analysis of Competition, Exchange, and Efficiency in Private and Public Organizations. New York: Cambridge University Press.
- Camerer, Colin. 1987. 'Do Biases in Probability Judgment Matter in Markets? Experimental Evidence.' American Economic Review 77: 981–97.
- Caplan, Bryan. 2000. 'Rational Irrationality: A Framework for the Neoclassical-Behavioral Debate.' *Eastern Economic Journal* 26: 191–211.
- Caplan, Bryan. 2001a. 'Rational Irrationality and the Microfoundations of Political Failure.' *Public Choice* 107: 311–31.
- Caplan, Bryan. 2001b. 'Rational Ignorance versus Rational Irrationality.' *Kyklos* 54: 3–26
- Caplan, Bryan. 2001c. 'What Makes People Think Like Economists? Evidence from the Survey of Americans and Economists on the Economy.' *Journal of Law and Economics* 44: 395–426.
- Caplan, Bryan. 2002. 'Systematically Biased Beliefs About Economics: Robust Evidence of Judgmental Anomalies from the Survey of Americans and Economists on the Economy.' *Economic Journal* 112: 1–26.
- Caruth, Gorton and Eugene Ehrlich, eds. 1988. The Harper Book of American Quotations. New York: Harper and Row.
- Coate, Stephen and Stephen Morris. 1995. 'On the Form of Transfers to Special Interests.' *Journal of Political Economy* 103: 1210–35.
- Conlisk, John. 1996. 'Why Bounded Rationality?' *Journal of Economic Perspectives* 34: 669–700.
- Conover, Pamela Johnson; Stanley Feldman and Kathleen Knight. 1987. 'The Personal and Political Underpinnings of Economic Forecasts.' *American Journal of Political Science* 31: 559–83.
- Copleston, Frederick. 1985. A History of Philosophy, vol. 1: Greece and Rome. New York: Doubleday.
- Coursey, Don and Russell Roberts. 1991. 'Competition in Political and Economic Markets.' *Public Choice* 70: 83–8.

- Crew, Michael and Charlotte Twight. 1990. 'On the Efficiency of Law: A Public Choice Perspective.' *Public Choice* 66: 15–36.
- Downs, Anthony. 1957. An Economic Theory of Democracy. New York: Harper.
- Dye, Thomas and L. Harmon Zeigler. 1996. *The Irony of Democracy*. New York: Wadsworth Publishing Company.
- Fremling, Gertrud, and John Lott. 1989. 'Time Dependent Information Costs, Price Controls, and Successive Government Intervention.' *Journal of Law, Economics and Organization* 5: 293–306.
- Fremling, Gertrud and John Lott. 1996. 'The Bias Towards Zero in Aggregate Perceptions: An Explanation Based on Rationally Calculating Individuals.' *Economic Inquiry* 34: 276–95.
- Frey, Bruno and Reiner Eichenberger. 1991. 'Anomalies in Political Economy.' *Public Choice* 68: 71–89.
- General Social Survey. 1996. URL http://www.icpsr.umich.edu/GSS/home.htm
- Gregor, A. James. 1969. The Ideology of Fascism. New York: Free Press.
- Haltiwanger, John and Michael Waldman. 1989. Rational Expectations in the Aggregate. *Economic Inquiry* 27: 619–36.
- History Place. 'Rudolf Hess.' 1996. URL http://www.historyplace.com/worldwar2/biographies/hess/
- Holcombe, Randall. 1985. An Economic Analysis of Democracy. Carbondale: Southern Illinois University Press.
- Kinder, Donald and D. Roderick Kiewiet. 1981. 'Sociotropic Politics: The American Case.' *British Journal of Political Science* 11: 129–61.
- Kuran, Timur and Cass Sunstein. 1999. 'Availability Cascades and Risk Regulation.' Stanford Law Review 51: 683–768.
- Los Angeles Times. 1993a. 'Gallup Poll Finds 46% Opposed, 38% in Favor of NAFTA.' Section: Part A; Page: A-14, November 9.
- Los Angeles Times. 1993b. 'The Times Poll: Economy and President Seen More Favorably.' Section: Part A; Page: A-1, December 9.
- Lott, John. 1997a. 'Does Political Reform Increase Wealth?: Or, Why the Difference Between the Chicago and Virginia Schools is Really an Elasticity Question.' *Public Choice* 91: 219–27.
- Lott, John. 1997b. Donald Wittman's *The Myth of Democratic Failure*. *Public Choice* 92: 1–13.
- Magee, Stephen, William Brock and Leslie Young. 1989. *Black Hole Tariffs and Endogenous Policy Theory: Political Economy in General Equilibrium*. Cambridge: Cambridge University Press.
- Markus, Gregory. 1988. 'The Impact of Personal and National Economic Conditions on the Presidential Vote: A Pooled Cross-Sectional Analysis.' American Journal of Political Science 32: 137–54.
- Muth, John. 1961. 'Rational Expectations and the Theory of Price Movements.' Econometrica 29: 315–35.
- National Survey of Public Knowledge of Welfare Reform and the Federal Budget. 1995. Kaiser Family Foundation and Harvard University, January 12, #1001. URL http://www.kff.org/content/archive/1001/welftbl.html
- Olson, Mancur. 1965. The Logic of Collective Action: Public Goods and the Theory of Groups. Cambridge, MA: Harvard University Press.
- Olson, Mancur. 1982. The Rise and Decline of Nations: Economic Growth, Stagflation and Social Rigidities. New Haven, CT: Yale University Press.

- Pesaran, M. Hashem. 1987. The Limits to Rational Expectations. Oxford: Blackwell. Popkin, Samuel. 1991. The Reasoning Voter: Communication and Persuasion in Presidential Campaigns. Chicago, IL: University of Chicago Press.
- Rowley, Charles. 1997. Donald Wittman's *The Myth of Democratic Failure*. *Public Choice* 92: 15–26.
- Saad, Lydia. 1996. 'Issues Referendum Reveals Populist Leanings.' *The Gallup Poll Monthly*, No. 368, pp. 2–6.
- Schumpeter, Joseph. 1976. *Capitalism, Socialism, and Democracy*. New York: Harper. Sheffrin, Steven. 1996. *Rational Expectations*. Cambridge: Cambridge University Press. Stigler, George. 1986. 'Economics or Ethics?' In *The Essence of Stigler*, eds K. Leube and T. G. Moore, pp. 303–36. Stanford, NJ: Hoover Institution Press.
- Stiglitz, Joseph. 1998. 'Distinguished Lecture on Economics in Government: The Private Uses of Public Interests: Incentives and Institutions.' *Journal of Economic Perspectives* 12: 3–22.
- Survey of Americans and Economists on the Economy. 1996. The *Washington Post*, Kaiser Family Foundation and Harvard University, 16 October, #1199. URL http://www2.kff.org/content/archive/1199/econgen.html
- Tonelson, Alan. 1997. 'Free Trade is Not Just Bad Policy, but Bad Politics.' *Detroit News*, 22 May. URL http://detnews.com/EDITPAGE/9705/22/column/column. htm.
- Tversky, Amos and Daniel Kahneman. 1982. 'Availability: A Heuristic for Judging Frequency and Probability.' In *Judgment Under Uncertainty: Heuristics and Biases*, eds Daniel Kahneman, Paul Slovic, and Amos Tversky, pp. 163–78. Cambridge: Cambridge University Press.
- Wintrobe, Ronald. 1987. 'The Market for Corporate Control and the Market for Political Conduct.' *Journal of Law, Economics, and Organization* 3: 435–48.
- Wittman, Donald. 1989. 'Why Democracies Produce Efficient Results.' *Journal of Political Economy* 97: 1395–424.
- Wittman, Donald. 1995. *The Myth of Democratic Failure: Why Political Institutions are Efficient*. Chicago, IL: University of Chicago Press.
- Wright, Gerald; Robert Erikson and John McIver. 1987. 'Public Opinion and Policy Liberalism in the United States.' American Journal of Political Science 31: 980– 1001.
- www.groucho-marx.com. 1999. 'Groucho Marx Is Here.' URL http://www.groucho-marx.com.

BRYAN CAPLAN is an Assistant Professor of Economics at George Mason University and the Center for Study of Public Choice. His research interests include the economics of irrationality, the implications for voter irrationality for public choice, and belief differences between economists and the public. His articles have appeared in the *Economic Journal*, the *Journal of Law and Economics*, the *Journal of Public Economics*, and other outlets.

ADDRESS: Department of Economics, George Mason University, 4400 University Dr., Fairfax, VA 22030–4444, USA [email: bcaplan@gmu.edu].