# **Reality Asserts Itself: Public Opinion on Iraq and the Elasticity of Reality**

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Prevailing theories hold that U.S. public support for a war depends Abstract primarily on its degree of success, U.S. casualties, or conflict goals. Yet, research into the framing of foreign policy shows that public perceptions concerning each of these factors are often endogenous and malleable by elites. In this article, we argue that both elite rhetoric and the situation on the ground in the conflict affect public opinion, but the qualities that make such information persuasive vary over time and with circumstances. Early in a conflict, elites (especially the president) have an informational advantage that renders public perceptions of "reality" very elastic. As events unfold and as the public gathers more information, this elasticity recedes, allowing alternative frames to challenge the administration's preferred frame. We predict that over time the marginal impact of elite rhetoric and reality will decrease, although a sustained change in events may eventually restore their influence. We test our argument through a content analysis of news coverage of the Iraq war from 2003 through 2007, an original survey of public attitudes regarding Iraq, and partially disaggregated data from more than 200 surveys of public opinion on the war.

Speaking in St. Louis, Missouri, on 5 July 2008, Democratic presidential candidate Barack Obama outlined his approach toward the Iraq war: "The tactics of how we ensure our troops are safe as we pull out, how we execute the withdrawal, those are things that are all based on facts and conditions. I am not somebody unlike George W. Bush—who is willing to ignore facts on the basis of my preconceived notions."<sup>1</sup> Obama's statement, in effect, accused President Bush of willfully ignoring reality in Iraq. However, as we show below, it is by no means clear what

The authors are co-equal contributors and are listed in random order. We are grateful to the Joan Shorenstein Center for the Press, Politics and Public Policy at the Harvard Kennedy School for supporting this study. We thank the participants of "The American Presidency at War" conference at the University of California, Berkeley, for valuable comments and suggestions on an earlier version of the manuscript. We would also like to thank the following individuals for research assistance on this project: Annie Augustine, Mia Bennett, Kellan Conner, Jamie Georgia, Mallory Gompert, Sandra Hanian, Alan Potter, Phil Potter, and Rajiv Thairani.

<sup>1. &</sup>quot;Obama Says Media Response to Iraq Remarks Overblown," *Associated Press*, 5 July 2008. Available at (http://2008caucus.blogspot.com/2008/07/obama-says-media-response-to-iraq.html). Accessed 2 April 2010.

role "reality" actually plays in shaping the assessments of elites and citizens concerning the status of a military conflict.

As of this writing (May 2010) the ultimate outcome of the prolonged war in Iraq remains the subject of contention. Nonetheless, it seems clear in retrospect that in 2007 an important shift took place in the situation on the ground in Iraq—a shift that checked and eventually reversed what appeared to be an implacable slide into chaos and defeat. At the time, however, recognizing this important turn of events proved exceptionally difficult, not only for the entrenched politicians on both sides of the dispute over whether (and when) the United States should withdraw, but also for journalists attempting to communicate the reality of the Iraq story to the public and for citizens seeking to understand the true status of the conflict.

Attempting to explain this dilemma, commentator Yon complained, "no thinking person would look at last year's weather reports to judge whether it will rain today, yet we do something similar with Iraq news. The situation in Iraq has drastically changed, but the inertia of bad news leaves many convinced that the mission has failed beyond recovery... whether it is good news or bad, whether it is true or untrue, once information is widely circulated, it has such formidable inertia that public opinion seems impervious to the corrective balm of simple and clear facts."<sup>2</sup>

Consistent with prior research,<sup>3</sup> we argue that media representations of elite debate in Washington concerning Iraq will tend to guide public opinion regarding the conflict. When citizens observe bipartisan elite support for a policy, they will tend to rally in support of it. If they observe partisan bickering, they will tend to fall in line behind their fellow partisan elites, resulting in a weaker rally. However, the original application of this approach to explaining public opinion regarding foreign policy<sup>4</sup> purports only to account for the immediate postconflict-initiation presence or absence of a rally-round-the-flag.<sup>5</sup>

In this study, we extend this line of inquiry beyond the rally-round-the-flag period. In addition, we argue that because the public typically receives much of its information about actual "events on the ground"—which we define as the "reality" of a conflict—through the news media, the effects on public opinion of elite communication appearing in those media are likely to persist, even after accounting for the state of events (that is, net of reality) well beyond an initial rally period.<sup>6</sup>

5. It also assumes that media coverage accurately reflects the tenor of elite debate, thereby effectively rendering the media a passive conveyor belt. (See Groeling and Baum 2008, for a discussion of the news media's role in communicating elite rhetoric.)

6. Of course, the news media are not the only route through which such information can flow. For instance, while relatively few Americans personally venture into war zones, many have familial or social ties to combatants who can serve as exceptionally credible sources of information about the true state of a conflict. Moreover, Americans gain at least some independent information about the costs and benefits of a conflict through their daily lives by personally observing increases or decreases in taxes, gas prices, deficits, or even terrorist attacks (Popkin 1994).

<sup>2.</sup> Yon 2007.

<sup>3.</sup> See Brody and Shapiro 1989; Brody 1991; and Groeling and Baum 2008.

<sup>4.</sup> See Brody and Shapiro 1989; and Brody 1991.

However, we further argue that as the public gathers more information over time, the potential gap between reality and its representation by elites through the media will likely recede, as will the public's responsiveness to additional information.<sup>7</sup> Following Baum and Potter,<sup>8</sup> we refer to this change in relative responsiveness as the "elasticity of reality." As the elasticity of reality varies, so too, we anticipate, will the relative influence on public opinion of elite communication and objective indicators of reality.

In this regard, our theory bridges the divide between theories emphasizing rational public responses to empirical indicators of a war's success or failure,<sup>9</sup> such as U.S. casualties<sup>10</sup> and those emphasizing the centrality of elite rhetoric in mediating public support.<sup>11</sup> In the latter case, while prior research<sup>12</sup> has shown that elite cues influence public opinion regarding war beyond rally periods, such studies do not directly measure or compare the evolving relative effects of rhetoric and reality over the course of an extended conflict. We show that both rhetoric and reality matter, albeit to varying degrees under differing circumstances and at different points in time.<sup>13</sup>

The war in Iraq provides an ideal case for illustrating and testing our theory. Early in the conflict, opponents of the conflict were dismayed at the Bush administration's ability to rally war support based on arguments that—in retrospect—appear to have been based on faulty or incomplete information.<sup>14</sup> In contrast, the circumstances described in the Yon quotation above suggest that at the time of these observations, the elasticity of reality with respect to Iraq had effectively collapsed. As a result, public opinion was almost wholly unresponsive to incremental changes in events or to pro-war rhetoric from President Bush and others. Subsequently, as the level of violence in Iraq continued to recede, a gap reopened in the relative and absolute influences of rhetoric and reality, such that most segments of the public seemed more responsive to negative rhetoric from the president's critics than to the increasingly positive situation on the ground in Iraq.

7. Brody 1994 offers a complementary argument regarding the 1991 Persian Gulf War. Consistent with our argument, Brody (1994, 210) observes "the public can also respond to directly experienced indications of presidential policy performance. However, he concludes that "it is not clear what switches public attention from mediated to unmediated indications of policy success or failure." We seek to directly model the effects of, and evolving relationship between, elite rhetoric and reality, and to do so over a much longer period of time than Brody's study of the eight-month-long (August 1990 to March 1991) Persian Gulf crisis.

8. Baum and Potter 2008.

9. See Gelpi, Feaver, and Reifler 2009; Gelpi 2009; and Jentleson 1992.

10. See Mueller 1973 and 1994; Gartner and Segura 2000; Gartner 2008; Feaver and Gelpi 2004; and Eichenberg 2005.

11. See Brody 1991; Zaller 1992 and 1994; Perla 2005; Berinsky 2007; and Larson 1996 and 2000.

12. See Zaller 1994; and Berinsky 2007.

13. Elsewhere (Baum and Groeling 2010), we also argue that, far from a passive conveyor belt, the news media play an active role in shaping the nature and extent of citizens' exposure to rhetoric and reality.

14. "Bush Lied, People Died" is a pithy version of this critique frequently employed by anti-Iraq War protestors.

In this study, we explain this perplexing shift in the relative influence of elite rhetoric and reality over the course of the conflict. We begin by presenting our theoretical argument and deriving a series of hypotheses concerning the effects of elite rhetoric and "events on the ground" (that is, "reality") on public opinion regarding Iraq. We next undertake a series of empirical tests. Testing dynamic patterns in public opinion poses a variety of substantive and methodological challenges. Many factors vary over time, and it is difficult, if not impossible, to account for all potential causal variables. Consequently, rather than relying on any single test, we undertake three distinct empirical investigations, employing a variety of data sources and modeling techniques, in order to build as strong a suggestive case for our theory as possible, given the limitations of each individual data source. We believe the weight of the combined evidence makes a more persuasive case for the theory than would be possible based on any one, or even several, of our empirical investigations. The final section offers concluding observations.

#### **Theory and Hypotheses**

The public does not evaluate events or elite rhetoric in a vacuum. Rather, individuals assess new information in part based on the reliability of previous pertinent information they have consumed, as well as on their pre-existing beliefs about the event.<sup>15</sup> Early in a conflict, typical individuals have limited information upon which to base such retrospective assessments and relatively mutable beliefs. Consequently, new information should be relatively influential. Over time, as they acquire more information and their opinions solidify, the influence of additional new information is likely to recede. Consequently, the qualities that make a given story persuasive to the public do not remain constant over time.

Zaller and Feldman explain why new information tends to exert less influence as an individual collects more information.<sup>16</sup> They argue that typical individuals possess a range of considerations on any issue and when asked their opinion, they average across those considerations that are accessible at that moment. They then respond probabilistically, based on the mix of accessible considerations regarding the pertinent issue. For instance, the greater the proportion of accessible considerations that point toward supporting the conflict in Iraq, the greater the probability that they will express support for it. However, all else equal, as the number of accessible considerations about the conflict increases over time, the marginal effect of any additional piece of information on the individual's overall ratio of positiveto-negative considerations—and hence on his or her likely response—declines.<sup>17</sup>

16. Zaller and Feldman 1992.

<sup>15.</sup> Thrall 2007.

<sup>17.</sup> This logic is consistent with Bayesian updating. That is, the higher the probability assigned to one's prior belief, the greater the weight (that is, probability) assigned to that belief in calculating the posterior probability, and hence the larger the influence of that prior belief on an individual's posterior belief (that is, probability assessment) (Zalta 2008).

Presumably, as the U.S. engagement in Iraq has continued—exceeding seven years as of this writing—typical citizens have increased their store of information about the conflict. Consequently, attitudes regarding the war have likely solidified relative to early in the conflict, when elites and journalists enjoyed a substantial informational advantage over the public and consequently substantial leeway in the initial framing of events.<sup>18</sup>

Journalists are not immune to such attitude solidification. Scholars have long recognized that journalists tend to cue off one another in their coverage, producing "pack journalism" and "metanarratives."<sup>19</sup> For instance, once journalists settle on a particular narrative regarding a presidential candidate—such as "Al Gore is dishonest" or "George W. Bush is unintelligent"—they tend to continually reference and thereby reinforce it. Eventually, it becomes increasingly resistant to challenges, even if it is based on faulty assumptions. Regarding the Iraq War, retired U.S. Army Lieutenant General Ricardo S. Sanchez complained to military reporters and editors, "once reported, your assessments become conventional wisdom and nearly impossible to change."<sup>20</sup>

Because news is an experience good—whose value citizens cannot observe prior to consuming it<sup>21</sup>—only over time can citizens retrospectively evaluate the reliability of previously consumed news. Such retrospective updating may lead to a shift in the balance of previously stored considerations, as individuals retag some negatively or positively tagged information, based on a retrospective revision in their reliability assessments. It may also lead to a coloring of assumptions regarding the reliability of new information. While inattentive individuals might have difficulty retrieving and retroactively updating the assessed valuation of information consumed in the murky past, and may be relatively unmotivated to do so, the prominence of the administration's initial efforts to gain publicity for its desired frame should help citizens recall it later.<sup>22</sup> For example, the Bush administration's rhetorical reliance on Saddam Hussein's alleged weapons of mass destruction (WMD) program to justify the war made it easier for critics to dredge up such claims later to undermine the administration's credibility on future claims.

As this process unfolds, and as elites' informational advantage recedes over time, the influence of new information inconsistent with the (updated) prevailing media representation of reality presumably diminishes. Consequently, the elasticity of

18. It is important to note that these informational advantages do not imply omniscience. In particular, early in a conflict, even the best-informed sources might differ in their honest appraisal of its true state (much as fans at a football game might differ in their expectations of the game's outcome after viewing the first quarter). Nonetheless, both motivated reasoning (Redlawsk 2002) and simple political expediency imply that such disagreements would still tend to closely track the partisan interests of the respective speakers (much as football fans might conclude that, in fact, their preferred team had performed "better").

19. See Mendelsohn and Crespi 1970; Jamieson and Waldman 2003; Rosenstiel 2004; PEJ 2008; and "Campaign Lite: Why Reporters Won't Tell Us What We Need to Know,"*Washington Monthly*, 1 January 2001. Available at (http://www.journalism.org/node/348). Accessed 2 April 2010.

20. Sanchez 2007.

21. Hamilton 2003.

22. Hill 1985.

reality—which we define as elites' capacity to successfully frame reality distinctly from the true state of events on the ground—declines over time. Only a fairly dramatic and sustained change in the valence of information would foster significant change in opinion once the prevailing narrative is firmly established, and even then only after some lag period during which citizens continue to discount the credibility of the new information.<sup>23</sup>

Illustrating this process, Figure 1 traces the typical path of the foreign policy informational advantage leaders enjoy relative to the public, focusing on the effects of reality (that is, the true nature of events on the ground) relative to its representation by elites via the mass media. The "Communication/elite rhetoric effects" and "Reality effects" curves, respectively, represent the influence on public opinion of the framing of events (for example, positive, negative, or neutral valence, offensive versus defensive goals, and so on) embedded in media reporting of elite rhetoric and the influence of actual events. The gap between them (that is, the elasticity of reality) represents the range of frames, with varying distances from those events' true tenor that the public will accept as reliable.



FIGURE 1. Elasticity of reality for a given state of events

23. See Stimson 2004, for an analysis of the general inertia of public opinion—punctuated by occasional consequential shifts—which complements our characterization of opinion dynamics in wartime. At the outset of the conflict (time  $t_0$ ), the public has little or no independent information about events on the ground. It thus depends on a representation of events provided by elites, whose construction in turn depends on media framing. Absent any capacity of the public to retrospectively assess the reliability of this information, the elasticity of reality is extremely large (albeit presumably bounded in some manner by longer-term public attitudes, values, and perhaps experience in prior conflicts).<sup>24</sup> After a little time passes, but still relatively early in a conflict, say at time  $t_1$ , the true tenor of events should still matter relatively less than media presentation of elite rhetoric regarding those events. If media coverage diverges from reality, the former is likely to exert greater influence than the latter, as shown by the gap between C<sub>1</sub> (communication/rhetoric effects at time  $t_1$ ) and R<sub>1</sub> (reality effects at time  $t_1$ ), which represents the elasticity of reality at time  $t_1$ . The two are likely to converge over time, with rhetoric in the news increasingly reflecting actual events, as shown at time  $t_2$ , where R<sub>2</sub> = C<sub>2</sub>.<sup>25</sup>

Eventually, however, as the public increases its store of information and retrospectively updates its reliability assessments, the marginal influence of new information will, as noted above, recede. This decline is likely to be more rapid for communication effects, which exert a disproportionate influence early on and consequently have more room to fall. Typical individuals will tend to be skeptical of information that diverges from their updated assessments regarding reality. Consequently, as the elasticity of reality collapses, the capacity of elite rhetoric to influence opinion independent of actual events diminishes.<sup>26</sup> At the same time, actual conflict developments continue to contribute—albeit presumably at a reduced marginal rate—to net public assessments. The shaded area between times  $t_2$  and  $t_3$ represents this period, where reality influences public opinion more than does elite rhetoric in the news, at least for a time.

Of course, the precise rate of convergence shown in Figure 1 is arbitrary, solely intended to illustrate the theoretical point. Presumably the actual rates of convergence, as well as the slopes of and gaps between the two curves, will vary across events. For instance, all else equal, given journalists' preferences for covering con-

24. Figure 1 attempts to represent the range of possible effects from rhetoric and reality-controlling for each other. If politicians remain silent early in a conflict, the impact of their rhetoric would presumably be minimal. Conversely, if the conflict is uneventful or events surrounding it lack any consistent pattern, reality should have marginally less influence on opinion. Iraq represents a compelling case in part because it provoked intense elite debate and followed a reasonably clear trajectory over much of its duration.

25. Note that if one assumes a media outlet's coverage favors a particular party, it should be expected to resist this convergence to the degree to which it damages that party. However, in the face of continued impingement by contrary real-world data, partisan media are likely to converge as well, though at a different rate than nonpartisan media (more gradually if they perceive the real-world data as harmful, or more rapidly if they perceive it as beneficial, to their preferred party) (Baum and Groeling 2010).

26. Note that in the case where rhetoric perfectly matches reality (which we anticipate to be quite rare), the independent impact of rhetoric will not decrease over time, as it began at zero and presumably stays at that level over time.

flict over covering harmony among elites,<sup>27</sup> the rates of convergence seem likely to be faster when elites are divided rather than when they are unified in support of the policy (which, consistent with Brody, Zaller, and others,<sup>28</sup> we believe will decrease the variability of public opinion). Nonetheless, regardless of the precise locations and slopes of the curves, eventually the public judgment becomes relatively fixed, by time  $t_3$ . At this point, absent a fairly dramatic and sustained change in the tenor of events, neither reality nor rhetoric will likely exert much influence. Several hypotheses follow:

H1: Longer-term communication effects: elite rhetoric regarding a war will continue to influence public attitudes independent of objective indicators of reality beyond the rally period, but, absent a substantial and sustained change in the tenor of events, the marginal effects of such rhetoric will recede over time.

H2: Longer-term reality effects: over time, absent a substantial and sustained change in the tenor of events, the marginal influence of objective indicators of a war's progress on public attitudes will first increase and then eventually recede.

H3: Rhetoric versus reality: over time, the marginal influence of elite rhetoric will decline more than the marginal influence of objective indicators of a war's progress.

Rather than occurring uniformly throughout the public, we anticipate that such declines should be more precipitous for the nonpresidential party (NPP), relative to the presidential party (PP). After all, due to their partisan affinity, statements by a president should, all else equal, be more credible to his fellow partisans than to opposition partisans or Independents and should remain so for a longer period of time.<sup>29</sup> This suggests a corollary to H1 (longer-term communication effects):

H4: Partisan long-term effects: after the initial rally period following initiation of a conflict, negative events or elite rhetoric will decrease the support of NPP partisans in the electorate more quickly and sharply than that of Independents, who, in turn, will be more affected than PP partisans. Conversely, positive events or elite rhetoric will increase the support of PP partisans more quickly and sharply than that of Independents, who will be more affected than NPP partisans.<sup>30</sup>

- 27. Groeling and Baum 2008.
- 28. Brody 1991; and Zaller 1992.
- 29. Groeling and Baum 2008.

30. This discussion implicitly assumes that partisans view the current administration as responsible for the relevant conflict. Obviously changes of administration during a conflict can muddy such calculations. For example, upon taking office, it was unclear whether the Obama administration would choose to "take ownership" of the ongoing wars in Iraq and Afghanistan. Obama argued during the 2008 campaign that the Bush administration was not doing enough in Afghanistan (in part because of the "distraction" of Iraq). This may have placed a greater burden on him and his governing party to

The model depicted in Figure 1 rests on an important assumption: that the fundamental nature of reality remains relatively constant. In other words, it assumes that war-related events follow a consistent, reinforcing path, while the media and hence the public—gradually recognize that path and converge toward an accurate understanding of it. Yet the tenor of events could potentially swing substantially in a different direction. If so, depending on where along the elasticity timeline the prior state of events lies, we anticipate a resurgence of the influence of rhetoric relative to reality. In other words, a major, sustained change in reality seems likely to reopen the elasticity of reality, at least to some extent. Following such a change, this reopening consists of journalists and much of the public initially discounting rhetoric or other information inconsistent with the state of affairs prior to the change as they seek to determine whether it is real or illusory. Figure 2 presents three curves separately tracking the effects of a fundamental shift in the tenor of events for PP and NPP partisans and Independents.



FIGURE 2. Persuasiveness of presidential rhetoric over time, by party

deliver a successful outcome there. Once in office, despite committing additional troops, Obama devoted scant attention to Afghanistan in his public statements, leading to an awkward situation where the bulk of the (relatively meager) public support for the policy came from his Republican foes. Indeed, by August 2009, nearly 75 percent of Democrats and a majority of Independents opposed the war. See "Obama Urged to Rally Support for War." *Wall Street Journal*. 7 September 2009. Available at (http://online.wsj.com/article/SB125201944159884863.html.) Accessed 2 April 2010.

On the left side of the curve, events are uniformly negative for an extended period. As the true, bleak nature of events becomes clearer over time, all three groups grow less susceptible to positive pronouncements about the conflict. However, PP partisans are far slower than NPP partisans or Independents to lose faith in the president. NPP partisans are particularly quick to begin discounting presidential rhetoric.

If events begin improving substantially, PP partisans will relatively quickly regain confidence in the president's positive rhetoric, while NPP partisans will remain skeptical for a longer period of time before recognizing the change in reality and consequently reassessing. Independents will again fall in between. Eventually, all three groups will renew at least some of their initial confidence in the credibility of the administration's positive rhetoric. However, depending on how long the prior, negative tenor of events persisted—and hence how firmly public opinion is entrenched—such responsiveness may not return to levels comparable to the outset of the conflict.

With respect to Iraq, even after political elites did begin to reassess the state of events, the NPP predictably remained far more skeptical than the president's fellow partisans. For instance, Democratic Senator Hillary Clinton of New York offered a bluntly skeptical assessment of the Surge in her response to testimony from General David Petraeus, Commander of U.S. forces in Iraq: "I think that the reports that you provide to us really require the willing suspension of disbelief."<sup>31</sup> Democratic Senate Majority Leader Harry Reid added: "I believe ... this surge is not accomplishing anything."<sup>32</sup>

One can easily imagine the opposing case, in which events are proceeding well and public confidence in the administration is high, followed by a significant turn for the worse. The U.S. intervention in Somalia in 1992–93 was such a case.<sup>33</sup> Most observers regarded the initial U.S. humanitarian mission there as an overwhelming success, resulting in public euphoria and support. However, in the wake of a seemingly unsuccessful nation-building effort in spring and summer 1993, frustration and disappointment replaced this euphoria. Eventually, both partisans and Independents lost confidence in presidential claims contrary to the apparent declining state of affairs. However, consistent with Figure 2, the rate at which the loss of confidence occurred, and the lag between the change in events and the onset of declining confidence, varied with partisan affiliation. Most notably, in fall 1993, Republicans predictably (given a Democratic

<sup>31.</sup> Quoted in "Clinton: Believing Petraeus and Crocker Requires 'Willing Suspension of Disbelief,'" *Politico*, 11 September 2007. Available at {http://www.politico.com/blogs/thecrypt/0907/ Clinton\_Believing\_Petraeus\_and\_Crocker\_requires\_willing\_suspension\_of\_disbelief.html}. Accessed 2 April 2010.

<sup>32.</sup> Quoted in "Top Senate Democrat Says Iraq War Already Lost," *Associated Content News*, 19 April 2007. Available at (http://www.associatedcontent.com/article/221010/top\_senate\_democrat\_says\_iraq\_war\_already.html). Accessed 2 April 2010.

<sup>33.</sup> Baum 2004b.

commander-in-chief) began advocating a U.S. with drawal from Somalia well before Democrats.  $^{\rm 34}$ 

This discussion suggests an additional corollary to the longer-term communication effects (H1) and reality effects (H2) hypotheses addressing how the public processes a change in reality that is not matched by a change in elite rhetoric (that is, rhetoric consistent with the prior state of the world but not with a recent shift in events, as well as the predicted variations in such processes across partisan subgroups). (See Baum and Groeling<sup>35</sup> for a discussion of how elite rhetoric appearing in the news can systematically diverge from actual events and even from a sample of elite rhetoric).

H5: Event-shift effects corollary: following a significant and sustained change of events, the public will initially be more susceptible to influence by elite rhetoric in the media consistent with prior events, relative to the "new" reality or rhetoric consistent with it. Only later will the public become more responsive to the current true tenor of events (as represented by media coverage) and to rhetoric consistent with it. Given a positive change of events, the president's fellow partisans will respond more quickly and positively to rhetoric and events consistent with the new positive situation relative to NPP partisans and Independents. Conversely, given a negative change of events, they will be less susceptible to such influence than NPP partisans and Independents.

# **Statistical Investigations**

Trends in Effects of Elite Rhetoric and 'Reality' on Public Opinion

We first investigate whether and in what manner elite rhetoric influences public opinion over the longer term, independent of the true tenor of events in a conflict and the influence of events themselves. Recall that our longer-term communication effects hypothesis (H1) predicts that media representations of elite rhetoric regarding a war will continue to influence public attitudes beyond the rally period, but that, absent a substantial change in the tenor of events on the ground, the extent of that influence will recede over time. Our longer-term reality effects hypothesis (H2) then predicts that the marginal influence of reality on public attitudes will first increase and then eventually recede.

The event shift effects corollary (H5), in turn, predicts that a significant change in the tenor of events may first revive the influence of rhetoric, and then reality.

<sup>34.</sup> Glenn Greenwald, "Who Wanted to 'Cut and Run' from Somalia?" *Salon.com*. 26 September 2006. Available at (http://www.salon.com/politics/war\_room/2006/09/25/clinton/index.html). Accessed 2 April 2010.

<sup>35.</sup> Baum and Groeling 2010.

The public should thus once again grant disproportionate credibility to elite rhetoric—particularly media representations of that rhetoric consistent with the prior state of reality—and then gradually shift to recognize the new state of events on the ground, with the president's fellow partisans doing the latter more rapidly than opposition partisans or Independents.

To test these predictions, we employ two key causal variables: (1) *New York Times* coverage of U.S. military and Iraqi civilian casualties in Iraq, and (2) actual trends in civilian and military casualties. In the former case, while media coverage often does not mirror the true underlying tenor of all elite rhetoric, it does represent that portion of elite rhetoric selected by the media that is thereby capable of influencing public opinion, as we have argued elsewhere.<sup>36</sup> Similarly, divergence between the *Times* coverage of casualties and actual casualty levels does not imply that the *Times* coverage is inaccurate or sloppy: rather, it might simply reflect the rhetorical choices of the various sources the newspaper has chosen to include in its coverage. Rather than assessing the accuracy of stories that make it into the *Times*, our goal is to determine the nature and extent of such coverage's impact on public opinion, as well as that of actual events.

In the latter case, we focus on civilian and military casualties as our key indicator of reality for two reasons. First, much of the literature on public opinion regarding war emphasizes casualties—either their number,<sup>37</sup> rate,<sup>38</sup> trend,<sup>39</sup> or framing<sup>40</sup>—as a key factor determining public support for war. Because we measure reality via the cumulative effects of casualties (see the section on data and methods), one could reasonably interpret our model as an extension of Mueller's seminal proposition<sup>41</sup> concerning the sensitivity of public opinion in wartime to the accumulation of casualties. However, we differ from Mueller with respect to the assumed longer-term effects of casualties, which Mueller conceives of as accumulating via a logarithmic function.

Like Mueller, we assume that the effects of casualties accumulate over time and that their impact on public opinion reflects both current and prior casualties. However, Mueller's model implies that the marginal effects of each additional casualty, c, is necessarily smaller than that of a prior casualty, c-1, as the sum total number of casualties rises. Such marginal effects thus inexorably recede over time even as their cumulative effect necessarily mounts in a logarithmic pattern. Mueller thus argues that the public is most sensitive to casualties early in a conflict and grows less so as casualties mount over time.<sup>42</sup>

- 40. Boettcher and Cobb 2006.
- 41. Mueller 1973.
- 42. Ibid., 59-60.

<sup>36.</sup> See Groeling and Baum 2008; and Baum and Groeling 2010.

<sup>37.</sup> See Milstein and Mitchell 1968; Milstein 1969, 1973, and 1974, Mueller 1973 and 1994; and Gartner and Segura 2000.

<sup>38.</sup> Slantchev 2004.

<sup>39.</sup> Gartner 2008.

In contrast, we model the marginal effect of each individual casualty as eroding over time subsequent to its occurrence, but not necessarily relative to prior casualties. Moreover, we model these marginal patterns within the broader context of a cumulative effect comprised of the sum of the many individual effects. In other words, at any point in time when a casualty occurs, it has a peak influence, which then declines over the course of several months. The cumulative effect also declines, unless new casualties refresh the relative peak level of influence. The total magnitude of the effects of casualties on opinion at that point depends on how many recent casualties have occurred. Thus we explicitly allow for the possibility that new casualties may yield large marginal effects, even late in a relatively long conflict where the cumulative total number of casualties is quite large. Consequently, consistent with our theory and distinct from Mueller's classic model, we allow for the possibility of surprises or other dramatic effects of casualties at any point in a conflict, depending on recent developments.

More fundamentally, our goal is to develop a unified model of the effects of information and rhetoric on war support, rather than strictly a theory of how casualties influence public opinion regarding wars. We are thus concerned not only with the direct effects of U.S. casualties, but also with the overall state of events in a conflict, with U.S. military and Iraqi civilian casualties serving as a benchmark indicator of that reality.

We view our measure of cumulative, discounted casualties—especially when we account for both U.S. military and Iraqi civilian casualties—as the best available indicator of the overall tenor of events in Iraq. To begin with, U.S. military and Iraqi civilian casualties have been by far the most frequently cited measures of U.S. progress in the conflict.<sup>43</sup> They are arguably also the most appropriate such indicator, as it is difficult to conceive of "stability" in Iraq without considering the level or trend in casualties.<sup>44</sup> Indeed, proponents of the success of the Surge in Iraq have

43. For instance, a Lexis-Nexis search indicated that, between January 2004 and January 2009, the major U.S. newspapers included in the database were more than three and fourteen times, respectively, more likely to reference "casualties or fatalities or killed" as "electricity or infrastructure" on the one hand, or "refugees or displaced," on the other, in headlines or lead paragraphs also mentioning "Iraq and progress" (772 versus 243 and 55 stories, respectively). Numerous empirical benchmarks are surely important to any objective accounting of progress in the conflict, and respondents do sometimes mention such indicators in surveys regarding Iraq. However, data for such indicators are substantially less continuous than for casualties, none are covered nearly as frequently in the media, and presumably as a consequence, none consistently approach the influence of casualties on public opinion. (On the centrality of casualties to predicting public war support, see Gartner 2008.) Nonetheless, it is possible that media coverage, such as that from the *New York Times*, might capture important measures of reality than one based strictly on casualties. By focusing on casualties, we attempt to limit our analysis to what is arguably the most theoretically central, discrete, and salient data for our hypothesis tests.

44. Gelpi, Feaver, and Reifler 2009 employ an alternative strategy for measuring public reactions to changes in "reality." They divide the conflict into multiple periods that they characterize as relatively more or less successful. While this approach has significant merit for their purposes, it is far more blunt and hence, we believe, less well suited to capturing the effects of incremental changes in the tenor of events or their cumulative impacts.

pointed almost exclusively to declining casualty rates to support their argument. For instance, in an article entitled "Admit it: The Surge Worked," *Washington Post* columnist Peter Beinart bases this assertion solely on declining casualties, observing in the lead paragraph: "the number of Iraqi war dead was 500 in November of 2008, compared with 3,475 in November of 2006. That same month, 69 Americans died in Iraq; in November 2008, 12 did."<sup>45</sup> Consequently, while our predictions are in some respects consistent with Mueller's theory,<sup>46</sup> his focus is narrower than ours and his empirical indicator does not incorporate civilian casualties among indigenous populations. This makes sense given the differences in the domains of our theories and consequent construction of our empirical indicators.<sup>47</sup>

# **Data and Methods**

To measure trends in the effects of elite rhetoric via the media on public opinion regarding Iraq, we assembled a monthly time series data set, running from May 2003 through November 2007. This yields a total of fifty-five monthly observations. The dependent variable is the monthly percent change in the percentage of Americans indicating that they supported the war in Iraq in a series of surveys. Following Jacobson,<sup>48</sup> our Iraq war support series aggregates results from more than 200 different polling questions, from fifteen polling organizations, addressing whether removing Hussein or the result of the war were worth the loss of lives, whether the respondents approve of military action in Iraq, whether the United States did the right thing in going to war, whether they support or oppose the current U.S. military presence in Iraq, whether they favor or oppose having gone to war, whether it was the right decision despite the CIA report on WMD, whether the war was a mistake, and whether their view of the war was favorable<sup>49</sup> (see Jacobson<sup>50</sup> for details about the surveys included in this analysis, including question wording and sponsors). Also following Jacobson, we employ LOESS smoothing (that is, locally weighted polynomial regression) on the aggregate series to account for variation across survey wordings and organizations.<sup>51</sup>

45. Washington Post, 18 January 2009: B07.

46. Mueller 1973.

47. It is also worth noting that by focusing on casualty coverage, we are arguably looking at an area of war coverage that is relatively less likely to be skewed than other types of coverage for the simple reason that the casualty rate is a reasonably (albeit imperfectly) objective indicator, thereby allowing relatively less room for media "interpretation" than many other aspects of war coverage (for example, progress on reconciliation benchmarks). This makes finding support for our hypotheses more difficult, ceteris paribus, and hence our test a particularly difficult one for our theory. (We thank an anonymous reviewer for raising this point.)

48. Jacobson 2006.

49. Ibid.

50. Ibid.

51. This process fits a series of simple models to localized subsets of the data to build up a function that describes the deterministic part of the variation in the data, point by point.

Our first key causal variable measures the valence of coverage of casualties (U.S. and Iraqi, civilian and military) in the *New York Times*, lagged one month. We coded the valence of all articles mentioning casualties during the time frame of our analysis, measuring whether each article's coverage of casualties was positive, negative, or neutral with respect to the state of the conflict, including U.S. involvement.

We counted a maximum of one positive and one negative code per article. However, an article coded as positive or negative could not also be coded as neutral. Two research assistants—working separately and independently—coded each article. Two other research assistants serving as arbitrators resolved disagreements between the first two coders. Inter-coder reliability on the initial coding was 76 percent, while that for our two arbitrators was 87 percent.<sup>52</sup> To create our final indicator, we employ positive coverage as a percentage of all casualty coverage (positive, negative, or neutral). We then averaged this "net positive" casualty coverage indicator for each month. This variable runs from 0 to 1, where 0 represents the least positive casualty coverage, and 1 represents the most positive coverage ( $\mu = .1$ ,  $\sigma = .18$ ). To capture variance in the effects of media coverage over time—and thereby test our hypotheses—we interact the lagged *New York Times* casualty coverage valence indicator with a variable counting the number of months since the beginning of our series, as well as with its quadratic.<sup>53</sup>

We elected to emphasize casualty coverage in the *New York Times* as our measure of elite rhetoric for two primary reasons. First, by comparing actual casualties (see below) with media coverage of casualties, we are able to hold the subject matter constant and only vary the quantity of casualties and valence of rhetoric. This allows us to isolate any "gap" between casualty levels or trends and their representation by elites in the news. This enhances the control of our comparisons. Second, given that we are focusing on news coverage of casualties, we consider the *New York Times*, which tends to set the national media agenda and whose stories are reprinted or otherwise covered in news media around the country (far more than any other outlet), to be the best single source.

Our second key causal variable measures actual levels of casualties in Iraq. We separately measured monthly total Iraqi civilian and U.S. military casualties. We normalized each total to a 0-1 interval and then added them together. We normalized the summary variable to a 0-1 interval to form our final casualty indicator ( $\mu = .46$ ,  $\sigma = .21$ ). We thus take into account the substantially greater weight placed by typical Americans on U.S. casualties, relative to Iraqi casualties.<sup>54</sup> Our

53. Because our hypotheses anticipate nonlinear effects of rhetoric and reality on public opinion, we include the quadratic term and interact it with the key causal variables. This allows rhetoric and reality to exert varying influence on the dependent variable (war support) at different points in time.

54. For evidence on the importance of proximity to the relationship between casualties and public support for war, see Gartner and Segura 2000. On the disproportionate value placed by Americans on U.S. casualties, relative to foreign military casualties, see Boettcher and Cobb 2006.

<sup>52.</sup> The arbitrators' reliability measure is based on dual coding of 10 percent of the data set.

final indicator employs a one-month lag on the summary casualty variable. To account for the distinction between media coverage of casualties and the actual casualty trend, we interact the (lagged) summary casualty measure with our month counter and its quadratic (as we did with the *New York Times* casualty coverage valence indicator).<sup>55</sup>

We also include seven control variables. To account for the intensity of media coverage of casualties in Iraq, our first two controls measure the percentage of the combined total number of stories about Iraq that mentioned casualties in television (ABC, CBS, NBC, and CNN) and print (*New York Times, Washington Post, Los Angeles Times, USA Today,* and *Wall St. Journal*). Third, to account for the president's political capital, we include presidential approval lagged one month (based on CBS News and Gallup polls).<sup>56</sup> Fourth, to account for the political effect of Hurricane Katrina, we include a dummy coded 1 during the month of the hurricane (September 2005) and the subsequent four months.<sup>57</sup> Fifth, we include a dummy for the 2004 presidential election (coded 1 for September through November 2004, including the immediate postelection period). Sixth, to account for the state of the economy, we include the national average price of gasoline, lagged one month.<sup>58</sup> Finally, to account for possible serial autocorrelation, our ordinary least squares (OLS) models include the dependent variable lagged one month, as a causal variable.

#### Results

Table 1 presents the results of our OLS analysis testing our longer-term communication (H1) and longer-term reality (H2) effects hypotheses, as well as the eventshift effects corollary (H5). Given the relatively small N and hence limited available statistical leverage in our model, we first present a basic model, excluding all but arguably the most important control, presidential approval. While the results predictably differ somewhat from the fully specified model, the key relationships are largely comparable—in terms of valence and relative magnitudes of causal variables—to the fully specified model. Consequently, we proceed more confidently in interpreting the latter, fully specified OLS model.

To ease interpretation we employ *Clarify*.<sup>59</sup> This allows us to estimate, via simulations, the expected change in the percentage of respondents supporting the war

57. We tested numerous variants of the Katrina control. This indicator outperformed all other specifications (ranging from one to twelve months).

58. This variable outperformed consumer sentiment in our models.

59. King, Tomz, and Wittenberg 2000.

<sup>55.</sup> Our casualty indicator correlates with our casualty coverage indicator at .59. As our theory projects, the two variables are thus reasonably closely related yet also clearly distinct.

<sup>56.</sup> A vast literature (see, for example, Johnson and Roberts 2004; Canes-Wrone and de Marchi 2002; Wang 1996; Ostrom and Simon 1985; and Ragsdale 1984) employs presidential approval as a key indicator of presidents' political capital.

Variables	Coefficient (standard error)	Coefficient (standard error)		
LAGGED CHANGE IN WAR SUPPORT	_	0.582		
		(0.159)***		
NY TIMES NET POSITIVE COVERAGE <sub>1-1</sub>	0.071	0.181		
	(0.046)	(0.065)**		
CIVILIAN & MILITARY CASUALTIES <sub><math>t-1</math></sub>	0.084	0.146		
	(0.106)	(0.105)		
MONTH	0.005	0.005		
	(0.002)**	(0.002)**		
MONTH <sup>2</sup>	-0.0001	-0.0001		
	(0.00003)**	(0.00003)**		
CASUALTIES <sub><math>t-1</math></sub> × MONTH	-0.009	-0.013		
	(0.006)^	(0.006)*		
$CASUALTIES_{t-1} \times MONTH^2$	0.0002	0.0002		
	(0.0001)*	(0.0001)*		
NY TIMES COVERAGE <sub><math>t-1</math></sub> × MONTH	-0.005	-0.013		
	(0.004)	(0.004)**		
NY TIMES $COVERAGE_{t-1} \times MONTH^2$	0.0001	0.0002		
	(0.0001)	(0.00007) **		
PRESIDENTIAL ELECTION DUMMY		-0.016		
		(0.007)*		
hurricane katrina (5-month dummy)	_	0.018		
		(0.008)*		
PRESIDENTIAL APPROVAL $t-1$	-0.0013	-0.002		
	(0.0010)	(0.001)^		
PROPORTION OF TV IRAQ COVERAGE	_	-0.074		
FOCUSING ON CASUALTIES		(0.050)		
PROPORTION OF NEWSPAPER IRAQ	_	0.209		
COVERAGE FOCUSING ON CASUALTIES		(0.075)**		
GAS PRICES <sub><math>t-1</math></sub>	_	0.0001		
		(0.0001)		
Constant	0.015	× /		
Constant		0.035		
$\mathbf{p}^2(\mathbf{x})$	(0.069)	(0.066)		
$R^2(N)$	0.37	0.59		
	(N = 53)	(N = 52)		

**TABLE 1.** Effects of variations in valence of New York Times coverage of casualties and actual casualties on changes in public support for Iraq war

*Notes:* Standard errors are in parentheses. p < .10; p < .05; p < .01; p < .01

as *New York Times* casualty coverage varies from no positive coverage to one standard deviation above the mean level of positive coverage, with all control variables—including casualty levels—held constant at their mean values. We repeat this simulation for each month in our series. Figure 3 presents the trends in the magnitudes of the effects on public support for the war of variations in *New York Times* coverage of casualties, on the one hand, and *actual* casualties, on the other.

Looking at the origin of the curve in Figure 3, the *New York Times* coverage curve indicates that in the first month of our series (May 2003), an increase from



*Notes:* For ease of visual interpretation, the valence of the "Casualties" curve is reversed so that we represent an increased direct relationship between declines in casualties and rising war support as a positive vertical movement along the y-axis. Large circles or squares indicate statistically significant (p < .10 or better) effects of news coverage or casualties; shaded regions represent statistically significant differences between effects of casualties and news coverage.

**FIGURE 3.** Percent change in public war support as casualties and New York Times casuality coverage vary, May 2003 through November 2007

no positive casualty coverage to one standard deviation above the mean level of positive casualty coverage is associated with about a 4 percent increase in smoothed public war support (p < .01).<sup>60</sup> The magnitude of the positive effect of favorable coverage on public war support recedes gradually, albeit remaining statistically significant and substantial in magnitude, through March 2004, eleven months into our series and thirteen months into the war. The implication is that variations in media coverage of casualties in Iraq continued to influence public opinion, independent from the effects of the actual level of casualties, over a year into the conflict. This is obviously far beyond the so-called "rally period" at the war's outset. In addition to offering support for longer-term communication effects (H1) with

<sup>60.</sup> Though we lose the first several months of our series due to transformations of the dependent variable, we employ *CLARIFY* to simulate the values for those months. Because of the functional form of the simulations, month-to-month changes in predicted values are only rough point estimates and will tend to be smoother than changes in the actual state of events. While the broad trends should certainly be meaningful, we caution readers against drawing overly precise conclusions based on simulated predictions for any particular month's values.

respect to media representations of elite rhetoric, these results also confirm a core assumption underlying our theory: that in foreign policy, communication matters over both the short- and longer-term.

After August 2005, the mean effects continue to decline through January 2006 with the direction of the relationship briefly turning negative (though the latter shift is statistically insignificant). This implies that as circumstances in the conflict steadily worsened, the actual state of events seems to have dominated public opinion, resulting in a greatly reduced independent influence of press coverage of casualties. Indeed, presumably due to the effects of reality, during this period positive coverage of casualties might have led to further decreases in public support (albeit insignificantly so). As conditions on the ground began to improve, however, the relationship for press coverage eventually becomes direct again (that is, positive coverage is associated with more positive public attitudes about the conflict, and vice versa). Given the apparent turnabout in events in Iraq in late 2007-that is, significantly reduced Iraqi civilian and U.S. military casualties arguably attributable to the Surge in the U.S. troop presence in Iraq-the return to a direct relationship between the valence of New York Times coverage and public war support appears consistent with H5. However, neither the post-July 2005 declines in the effects of increased positive coverage, nor the upward turn in such effects in late 2007 are statistically significant. Consequently, these latter results are more suggestive than definitive. Nonetheless, the direct relationship in late 2007 approaches significance (p < .20), and the upward trend in the positive effects from its low point in early 2006 is itself marginally statistically significant (p < .10). This suggests that these broad patterns most likely represent real rather than coincidental shifts.

It is, however, important to note that the most important rhetorical shift across these two periods was not a change in positive evaluations, which only increased by around 11 percent (from an average of 1.13 per month in the first eight months of 2007 to 1.25 during the September to November 2007 period). Rather, the late-2007 balance of rhetoric primarily reflected a massive 68 percent drop in negative evaluations (from 6.25 to only 2 per month). Thus, even as rhetoric began to regain traction and correlate more directly with public opinion, net changes in that rhetoric were mostly limited to fluctuations in negative evaluations. Negative evaluations continued to outpace positive ones throughout 2007, albeit at a reduced rate during the fall.

Turning to the actual casualties curve in Figure 3, we find a quite distinct pattern. (Note that to ease the visual interpretation of the data, we reversed the valence on the actual casualties curve, so that, like the news coverage valence curve, higher values represent improvements in the state of events—in this instance declines in casualties rather than increases.) In the initial months of our series, variations in the level of civilian and military casualties have no significant effect on public war support. The curve begins briefly in negative territory, suggesting, not entirely surprisingly, that the public greeted higher levels of casualties at the outset of the war with increased support.<sup>61</sup> The curve then gradually moves upward until, in February 2005—twenty-five months into our series and twenty-seven months into the war—the effects of declines in casualties (here and subsequently from one standard deviation above the mean to zero) become statistically significantly positive. That is, beginning in February 2005, declines in casualties are associated with significant increases in war support. This pattern persists—and remains statistically significant—until January 2007, peaking in December 2005, when a decline in casualties from one standard deviation above the mean to zero is associated with a nearly five percent increase in public war support (p < .05).

Beginning in February 2007, the curve moves into negative territory, indicating that falling casualty levels are associated with decreases in war support. This seemingly paradoxical reversal is not statistically significant, however, and so is of questionable substantive importance. Overall, these results clearly support longer-term reality effects (H2), as the effects of reality—in this case trends in civilian and military casualties—emerge gradually, and subsequently recede over time.

Also important for our theory, the two curves are themselves statistically distinct from one another during the first three months of our series, through July 2003 (p < .10 or better, indicated by the shaded region at the start of the curves in Figure 3). During this period, positive New York Times coverage produces a positive and significant effect on public opinion, while variations in casualties are associated with no statistically significant effect. Between August 2003 and April 2005, the two curves are statistically indistinguishable. From May 2005 through November 2006, declines in casualty levels exert a significantly more positive effect on public war support than positive news coverage, which exerts no significant effect (shown by the shaded region in the mid-section of the top graphic in Figure 3). After November 2006, the curves again become statistically indistinguishable until September 2007. Beginning in that month, positive New York Times casualty coverage again exerts a statistically distinguishable positive effect on public opinion (p < .10 or better, again indicated by the shaded region toward the ends of the curves in Figure 3) relative to declines in actual casualty levels, which do not significantly affect opinion.

Overall, the empirical patterns in Figure 3 are strikingly consistent with the theoretical model depicted in Figure 1. Initially, as predicted, rhetoric (measured by media coverage of casualties) exercises a greater influence than reality (measured by actual casualty levels). Subsequently, reality begins to exert itself, outpacing rhetoric during the "medium-term" (represented by the middle part of our time series). Eventually, both rhetoric and reality fade to insignificance. Though the influence of both recedes over time (albeit at different times), consistent with the

<sup>61.</sup> Gelpi, Feaver, and Reifler 2009 also find a positive relationship between increased casualties and war support in the early days of the Iraq war.

rhetoric versus reality (H3) hypothesis, statistically significant effects persist far longer for reality than for rhetoric (nineteen months versus eleven).<sup>62</sup>

Our theory also predicts that even after a long period of consistent rhetoric and events on the ground, a noteworthy change in the tenor of events-such as the substantial and sustained drop in Iraqi civilian and U.S. military casualties associated with the "Surge"-can eventually (after some lag period) lead the public to take a second look at a conflict and again become amenable to at least some influence by media—and by extension, elite—framing of events, as well as ultimately by the actual tenor of the events themselves.<sup>63</sup> In this instance, the return to a positive relationship between net positive New York Times coverage of casualties and public war support-as well as the re-emergence of a statistically significant difference between the effects on opinion of news reports about casualties and of actual casualties—takes place in fall 2007. Presumably it is not a coincidence that this is the period where journalists began to take notice, after several months of skepticism, of declining casualty trends in Iraq.<sup>64</sup> Finally, it is worth noting that the pattern in fall 2007 essentially mirrors that from the beginning of the war, with rhetoric again exerting a greater influence on opinion than reality (albeit at more attenuated levels). These latter results support our rhetoric versus reality (H3) and event-shift effects corollary (H5) hypotheses and are again strikingly consistent with the theoretical model depicted in Figure 1.

#### Presidential Rhetoric and the Elasticity of Reality

We next investigate trends in citizen responses to presidential rhetoric regarding Iraq. In doing so, we test the longer-term communication effects (H1) hypothesis, which predicts that, all else equal, the effects of elite rhetoric on public opinion regarding a conflict will tend to diminish over time. We also test the partisan long-term effects (H4) hypothesis, which predicts that after the initial rally period following initiation of a conflict, NPP partisans will decrease their war support in response to negative elite rhetoric more quickly and sharply than Independents, who will be more responsive than PP partisans (with the opposite pattern arising in the case of favorable rhetoric).

#### **Data and Methods**

We assembled a data set on all public presidential speeches, addresses, press conferences, and press statements pertaining in significant measure to the conflict in

<sup>62.</sup> In this respect, our findings are consistent with those of Gelpi, Feaver, and Reifler 2009; and Gelpi 2009.

<sup>63.</sup> Similarly, Gelpi 2009 finds that the public is responsive to unexpected conflict events.

<sup>64.</sup> Baum and Groeling 2010.

Iraq. Our universe of data consists of a series of 347 transcripts representing all public statements by President Bush that the White House defined on its website as significantly focused on Iraq.<sup>65</sup> We include all such statements by President Bush in which, in the judgments of our coders, Iraq constituted at least one third of the content of the statement. This yielded seventy-four cases, of which sixty-seven were primarily (that is, greater than 50 percent) focused on Iraq.<sup>66</sup>

Our research assistants coded each transcript along a variety of dimensions, including the type of statement (for example, address to the nation, press conference, joint appearance, and so on) and frequency of references to Iraq. (See Appendix for a complete listing of variables and coding rules.) Pairs of coders independently dual-coded all transcripts, subsequently resolving any disputes by discussing the disagreement until they achieved consensus.<sup>67</sup> Intercoder reliability testing indicated that our coders agreed on 85 percent of all initial (that is, first-round) coding decisions on our primary variables of interest.

Our dependent variable measures variations in public opinion regarding Iraq in the periods prior to and immediately following presidential statements, based on the same smoothed war approval data as in the prior analysis. In this instance, however, we employ partially disaggregated data based on partisan affiliation. While the smoothing process reduces the random variance in the series, it also greatly reduces its systematic variance. Consequently, the remaining variability in the series is quite small (significantly smaller than in the aggregate series). In fact, the maximum change in smoothed war support from a month t to a month t + 1 is just 1.54 percentage points. Presumably due at least in part to the relatively small monthly variations in these partisan indicators, transforming them into percent changes results in several observations dropping from the model. Hence we employ as our dependent variable the simple difference between partisan war support at time t and at time t + 1.

To distinguish statements predominantly focused on Iraq from those in which most of the content focused on other issues, we include a dummy variable, coded 1 for the sixty-seven speeches in which more than half of the content focused on Iraq. Statistical testing indicated that these sixty-seven statements produced materially distinct effects from the remaining seven less-Iraq-centric statements. Consequently, to isolate the effects of the predominantly Iraq-oriented statements, we interact the Iraq focus dummy with a count variable measuring the date when a

65. An archive of this site is available at (http://georgewbush-whitehouse.archives.gov/infocus/ iraq/archive.html). Accessed 2 April 2010.

66. This methodology treats instances in which the president discussed Iraq in a speech primarily focused on another topic as non-Iraq-focused events. It also excludes nonpublic speeches aimed at inside-the-beltway audiences or those the White House did not list as "public" speeches, addresses, or statements. While any coding rule would produce at least some debatable cases, we believe the benefits of a parsimonious, consistent coding rule that isolates Iraq-focused speeches targeted at the public outweigh the potential costs of excess restrictiveness.

67. Because this coding was straightforward (entailing tallies of "hits" from Lexis-Nexis searches), we elected not to undertake arbitration of initial disputes by a third coder.

given statement occurred. Because any trends are unlikely to be linear—or at least nonmonotonic—we include the quadratic of the date counter and also interact the quadratic with the Iraq focus dummy.

For our control variables, in order to account for potential autocorrelation, we include the lagged value of our dependent variable.<sup>68</sup> We also include a dummy for statements to the press (including press conferences), which stood apart from other types of speeches as substantially less likely to enhance partisan support for Iraq.

To capture the state of events in Iraq, we include measures of the level and weekly changes in U.S. and Iraqi civilian casualties. To account for trends in the volume of media coverage of Iraq, we also control for the number of mentions of Iraq on the nightly newscasts of ABC, CBS, NBC, and Fox News's *Special Report with Brit Hume*.<sup>69</sup>

We also control for the number of mentions of Saddam Hussein by President Bush in each statement. Perhaps due to the familiarity to Americans—and hence broad accessibility—of the Saddam-Hussein-as-villain narrative,<sup>70</sup> this variable proved a reasonably strong predictor of media attention, independent of variations in the overall intensity of the president's focus on Iraq. Finally, we include three indicators of the state of the U.S. economy—the monthly change in consumer sentiment, the rate of inflation, and average gas prices—as well as a variable measuring the number of days between presidential statements in the data set.<sup>71</sup>

#### Results

Models 1 to 6 in Table 2 present the results from our tests of our longer-term communication (H1) and partisan long-term (H4) effects hypotheses. As before, given the relatively small *N*s and large numbers of controls in our fully specified models, we first present a set of basic models (Models 1 to 3), excluding all but

68. In these models, the lagged difference substantially outperformed the lagged level among Independents, performed similarly among Democrats (albeit slightly less strongly), and virtually identically among Republicans. We thus settled on the lagged difference form of the variable (the change from period t to period t+1), which slightly outperformed the lagged level. However, the key results remain similar regardless of the form of the lagged dependent variable included in the models.

69. Some of our findings could be influenced by rhetoric from the president's opponents, particularly as the 2008 presidential election approached. We thus tested our models with additional controls for Iraq-related rhetoric from Obama's presidential campaign. These variables did not materially affect the reported results. We suspect the reason is that by the end of 2003, rhetoric from Democrats became essentially constant—that is, nearly 100 percent critical. Any remaining variance is most likely absorbed by several variables already included in our models, such as the volume of network Iraq coverage and lagged partisan war support. An additional test (not shown) that included the valence of *New York Times* Iraq coverage—which produced no significant change in our results—supports this conjecture.

70. Baum 2003.

71. Some models exclude up to two influential outliers, the inclusion of which modestly weakens, but does not fundamentally alter, the reported results.

	Model 1 Republicans	Model 2 Democrats	Model 3 Independents	Model 4 Republicans	Model 5 Democrats	Model 6 Independents
lagged partisan war support $(\Delta_{t-1})$	_	_	_	0.009	-0.508	-0.395
				(0.249)	(0.317)	(0.240)
RAQ FOCUS	0.800	1.742	0.728	1.754	2.638	1.451
	(0.452)^	(0.768)*	(0.637)	(0.487)***	(1.041)**	(0.679)*
TATEMENT DATE 0.003 (0.001)**		0.002	0.002	0.005	0.005	0.004
	(0.001)**	(0.001)*	(0.001)	(0.002)**	(0.002)*	(0.002)*
	-0.002	-0.001	-0.001	-0.003	-0.003	-0.002
	(0.0005)***	(0.0006)^	(0.0006)^	(0.001)**	(0.001)*	(0.001)*
IRAQ FOCUS $ imes$ statement date	-0.005	-0.003	-0.003	-0.006	-0.008	-0.006
	(0.001)***	(0.002)*	(0.001)*	(0.002)***	(0.003)**	(0.002)**
Iraq focus × statement date <sup>2</sup> (× 1000)	0.002	0.0013	0.0015	0.003	0.003	0.003
	(0.0005)***	$(0.0007)^{-1}$	(0.0006)*	(0.001)***	(0.001)**	(0.001)**
$\delta\Delta$ Network iraq stories	0.002	0.006	-0.008	-0.068	-0.007	-0.066
	(0.066)	(0.107)	(0.094)	(0.086)	(0.110)	(0.099)
PRESS STATEMENT/CONFERENCE	_			-0.230	-0.305	-0.145
				(0.108)*	(0.175)^	(0.171)
ΔU.S. CASUALTIES			_	0.009	0.015	0.008
				(0.005)^	(0.008)^	(0.007)
WEEKLY U.S. CASUALTIES $_{t-1}$				0.011	0.025	0.014
				(0.007)^	(0.008)**	(0.009)

 TABLE 2. OLS analyses of effects of Bush Iraq statements on partisan war support

$\Delta$ iraqi casualties	—	—	—	0.007	0.009	0.011
				(0.002)**	(0.004)*	(0.003)**
PRE-WAR	—	_	_	0.500	-0.106	0.187
				(0.272)^	(0.403)	(0.347)
BUSH MENTIONS OF SADDAM	—	_	—	-0.036	-0.009	-0.020
				(0.016)*	(0.023)	(0.021)
PRESIDENTIAL APPROVAL $_{t-1}$	—	_	—	-0.016	-0.041	-0.022
				(0.012)	(0.017)*	(0.014)
$\Delta$ consumer sentiment	—	_	—	-0.002	0.004	0.000
				(0.002)	(0.003)	(0.003)
GAS PRICES	0.003	0.005	0.004	0.003	0.005	0.004
	(0.001)**	$(0.001)^{***}$	(0.001)***	(0.001)**	(0.001)***	(0.001)**
$\Delta \text{CPI}$	—	_	—	-0.014	0.023	0.023
				(0.046)	(0.057)	(0.057)
DAYS SINCE LAST STATEMENT	_	_	_	0.000	0.001	0.000
				(0.000)	^(0.000)	(0.000)
Constant	-0.514	-2.287	-0.831	-0.722	-0.137	-0.217
	(0.355)	(0.526)***	(0.471)^	(0.834)	(1.151)	(0.974)
$R^2(N)$	0.33	0.43	0.37	0.61	0.49	0.45
	(N=71)	(N=71)	(N=71)	(N=71)	(N=71)	(N=71)

Notes: Standard errors are in parentheses; "× 1000" indicates that listed coefficients have been multiplied by 1,000. ^p < .10; \*p < .05; \*\*p < .01; \*\*\*p < .001.

two important control variables (gas prices and network news coverage of Iraq). The results for the key causal variables, though again predictably differing somewhat, are nonetheless broadly consistent (in valence as well as relative magnitudes) with the fully specified models (Models 4 to 6). Consequently, we again proceed more confidently to interpreting the latter, fully specified models. To do so, we again employ *CLARIFY* to transform the OLS coefficients into expected percentage point changes in war support in response to presidential statements on Iraq, over time. Figure 4 illustrates the results.



FIGURE 4. Effect of a presidential statement on Iraq on news coverage of and partisan support for the Iraq War, 2002–2007

For all three partisan groups, a presidential statement is associated with an increase in approval of the war (either hypothetically, prior to its initiation, or retrospectively, during the conflict). Democrats display the strongest such relationship, with a presidential statement associated with about a 2.2 percentage point increase in support for going to war against Iraq in January 2002 (p < .01).<sup>72</sup> The

<sup>72.</sup> Due to missing data on several causal variables, data prior to October 2002 dropped out of the model. Consequently, the values shown in Figure 4 for the January to September 2002 period are interpolated from the available observations. While the interpolations affect the simulated magnitudes

corresponding increases for Republicans and Independents are 1.2 and 1.5 percentage points, respectively (p < .05 in both cases).

Lower baseline approval rates among Democrats at the time of the survey presumably explain the relatively higher effect on Democrats. They simply had more room to rise in response to a presidential statement. Moreover, in January 2002, President Bush was in the midst the largest and most sustained "rally-round-theflag" approval spike ever recorded—a 35 percentage point rise almost overnight—in response to the terrorist attacks of 11 September 2001.<sup>73</sup> Hence, at this time, Democrats were more inclined to rally in response to appeals by President Bush than was the case later in his presidency.

All three partisan groups display diminishing responsiveness over time to presidential appeals, reaching the zero point at about the same time, albeit with the Democrats, as anticipated, falling farthest and fastest (though the differences between the partisan subgroups are not statistically significant). The effects of presidential statements turn negative beginning in early 2005—with statements by the president associated with subsequent declines in war support—and remain so across all three partisan groups for the remainder of the series. Among Democrats, a presidential statement on Iraq in the final month of our series is greeted with about a .77 percentage point decline in war support (p < .05). The corresponding declines among Independents and Republicans are approximately .51 percentage points in each case (p < .05).

These results offer clear support for our longer-term communication effects hypothesis (H1). Across all three groups the influence of presidential rhetoric on public support for Iraq clearly declines over time, approaching and then surpassing zero, and ultimately turning negative. Consistent with the partisan long-term effects (H4) hypothesis, in turn, we observe the largest and most rapid declines among NPP partisans (Democrats), and the shallowest decline among PP partisans (Republicans). However, because these latter differences are statistically insignificant, they must be interpreted as suggestive rather than definitive support for H4.

#### Individual Attitudes

We turn next to an individual-level analysis. Recall that H1 (longer-term communication effects) and H2 (long-term reality effects) predict that the effect(s) of rhetoric and reality, respectively, on public opinion will recede over time, while their corollary, the event-shift effects (H5) hypothesis, predicts that a substantial and sustained change in the tenor of events will eventually reinvigorate the effects of rhetoric and reality on public opinion, with PP partisans being quicker to reassess reality in response to events perceived as favorable to the president (and slower

of the effects shown in the figure and described in the text, the overall relationships remain largely unchanged.

<sup>73.</sup> Baum 2002.

to reassess when events are perceived as unfavorable to him), relative to Independents or members of the NPP. It further predicts that the effects of the new "reality" will emerge gradually, while those of rhetoric consistent with the prior state of events will persist for some period of time while the public assesses the reliability of rhetoric consistent with the newly changed state of reality on the ground.

In order to test these predictions at the individual-level, we surveyed a national population sample (provided by Polimetrix) concerning attitudes regarding Iraq. (See Appendix for question wording and coding.) While one survey at a single point in time clearly cannot test the dynamic aspects of our theory, we nonetheless believe it is valuable for assessing the face validity of several of our assumptions and predictions. We asked respondents about the trend in casualties and the prospects for a U.S. victory in Iraq, as well as about the ability of the Bush Administration to influence public opinion on Iraq. Figure 5 presents four graphics, which together summarize the key results by party.

We begin with the top-left and top-right graphics in Figure 5. These graphics indicate that—as of December 2007 (when the survey was in the field)—Democrats and Independents believed that the U.S. prospect for victory in Iraq had remained largely unchanged over the preceding year (top-left graphic) and that the Surge had produced virtually no effect on the U.S. prospect for victory (top-right graphic), as both groups hover near the zero line (representing a response of "unchanged"). In sharp contrast, Republicans believed (perhaps correctly in retrospect) by large margins that the prospects for victory had improved (top-left graphic) and that the Surge had improved the U.S. chances of victory (top-right graphic). The differences between Democrats and Independents, on the one hand, and Republicans, on the other, are highly significant (p < .001 in both cases).

The bottom-left graphic presents the results from a question asking whether respondents believed the rate of U.S. military and Iraqi civilian casualties in Iraq had increased, decreased, or remained about the same since the start of the Surge in March 2007. The results are consistent with those discussed above; Democrats and Independents believed (incorrectly) that casualty rates had remained roughly constant between March and December 2007, while Republicans, again by large margins, believed (correctly) that average monthly casualty levels had declined over that same time period. Once again, the differences between Democrats and Independents, on the one hand, and Republicans, on the other, are highly significant (p < .001 in both cases).

These results support our predictions, particularly our event-shift effects corollary (H5). While opposition partisans and Independents are slow to even recognize changes in events favorable to the president, let alone acknowledge their significance, the president's fellow partisans are substantially quicker to positively reassess and more likely to do so in large numbers.

Additional national survey data provide more dynamic evidence of a partisan divide in perception following a shift in real-world events. According to a series of Pew Center surveys beginning in February 2007 (shortly after the announcement of the Surge strategy in Iraq), public perceptions of the conflict differed starkly,



*Notes:* Reported figures based on averages across respondents, coded: Increased = 1, About same = 0, Decreased = -1.

FIGURE 5. Evolution of public opinion regarding Iraq conflict

in precisely the manner predicted by H5. As shown in Figure 6, Republicans began to perceive progress in Iraq within months of the initiation of the Surge, increasingly believing the United States was making progress defeating Iraqi insurgents and preventing a civil war.



*Note:* Data are from the following Pew survey question: "As I read a few specific things about Iraq, tell me if you think we are making progress or losing ground in each area. First, are we making progress or losing ground in [Preventing Civil War/Defeating Insurgents]?" Data available at <a href="http://people-press.org/reports/display.php3?PageID=1258">http://people-press.org/reports/display.php3?PageID=1258</a>. Accessed 24 March 2010.

In contrast and also consistent with our event-shift effects corollary (H5) hypothesis, Independents and especially Democrats remained skeptical that any such progress was emerging, even as late as September 2007. Indeed, Democrats actually perceived a deteriorating situation with respect to the insurgency between February and September 2007. Only later did Democrats and Independents begin to join Republicans in believing that the United States was actually making progress in these areas.

These results address a possible counterhypothesis that by 2006, most people had concluded that the costs of war already exceeded whatever benefits might be

FIGURE 6. Perceived U.S. progress in Iraq since start of Surge, by party

obtained by stabilizing Iraq. At that point, there would be no reason to revise one's view that the war was a mistake, even if events on the ground took a turn for the better. Yet we do not observe persistent inertia in the face of changed events. Rather, we find evidence at both the individual level and in aggregate trends of a substantial change in public opinion regarding the war's likely outcome roughly six months following the initial "success" of the Surge. Indeed, after hitting a low of around 30 percent in Winter 2006–2007, the percentage of Americans reporting they believed the American military effort was doing fairly or very well nearly doubled two years later to just below 60 percent.<sup>74</sup> Consequently, we believe that the inertia hypothesis, though plausible, is not supported by the data.

Finally, returning to Figure 5, the bottom-right graphic presents the results from a question asking whether the Bush administration's capacity to influence public opinion on the war has increased, decreased, or remained relatively constant since the start of the war. This tests our longer-term communication (H1) and partisan long-term (H4) effects hypotheses, which predict that, absent a major shift in the tenor of events, the effects of elite rhetoric on public attitudes will recede over time (H1), but that this effect will be weakest among the president's fellow partisans (H4). The results indicate, consistent with H1, that, on average, all respondents— Democrats, Republicans, and Independents-agreed that the influence of the Bush administration on public support for the war had receded since the start of the conflict. Moreover, consistent with H4, Democrats and Independents were far more likely than Republicans to believe this. There are certainly multiple factors contributing to these assessments, and, as noted, self-reports at a single point in time concerning the influence of the Bush administration may be somewhat unreliable. Hence, these latter results represent only suggestive evidence. Nevertheless, they are precisely what H1 and H4 would predict.

### Conclusion

In *Common Sense*, Thomas Paine observed that, "time makes more converts than reason."<sup>75</sup> Interestingly, and consistent with the assumptions underlying the *elasticity of reality* framework, in the first half of our data series "reason" (that is, elite rhetoric) predicted changes in war support to a greater extent than our indi-

75. Paine 1776.

<sup>74.</sup> Pew 2009. One interesting anomaly that we cannot address within the confines of our limited data concerns a somewhat striking decrease in Iraq coverage after the implementation of the Surge. The UCLA Communication Studies TV News Archive shows that in January 2007, typical news programs in Los Angeles mentioned Iraq a little over nine times per show. One year later, the average was less than two mentions per show. By January 2009 it had dropped to less than one mention per show. We argue elsewhere (Baum and Groeling 2010) that journalists' preference for negative news and conflict pushes coverage of wars from the news when events are going well, and increases such coverage when things go poorly.

cators of reality for two of three partisan subgroups (Republicans and Independents), while in the second half of our series the pattern reversed, with our reality indicators better predicting changes in war support for two of three partisan subgroups (again, Republicans and Independents). This suggests that as the elasticity of reality shrinks over time, so too does the capacity of political elites to frame events to their own advantage, at least to the extent that such frames contradict the tenor of actual events. As VandeHei and Harris observed in fall 2007 with respect to public opinion regarding Iraq, "it turns out that Washington matters less than many Democrats and even many journalists supposed in determining political momentum in the Iraq debate. Events on the ground—including ... evidence that security is improving somewhat in the wake of the military's 'Surge' policy matter more."<sup>76</sup>

The implications of these findings for American foreign policy are ambiguous. On the one hand, in an increasingly partisan and polarized media and public opinion environment, maintaining support for any foreign policy—much less a costly, protracted one—would seem more difficult for U.S. leaders than in the past. For instance, substantial research<sup>77</sup> suggests that citizens can influence the outcomes of international bargaining processes by enhancing or inhibiting leaders' capacities to signal resolve during such negotiations. According to this view, democratic leaders can enhance their bargaining position by making public threats or promises. By doing so, and risking political punishment at home should they back down, leaders can effectively "tie their hands," thereby enhancing their credibility to an adversary. This is because upon publicly issuing a threat, democratic leaders generate domestic audience costs, defined as the domestic political punishment leaders suffer if they issue public threats and subsequently retreat.<sup>78</sup>

Domestic audience cost theory, as specified above, implicitly assumes that citizens—the "audience" in domestic audience costs—will respond whenever their leaders call.<sup>79</sup> Our evidence calls this into question. We find that over time, citizens become less responsive to a leader's appeals as the tenor of events increasingly narrows the range of elite frames that the public will accept. We further find that not all citizens are equally inclined to respond when their leader calls. Indeed, if expressions of antagonism toward a leader's foreign policy from the opposition party can undermine the credibility of her commitments abroad, as Schultz argues,<sup>80</sup> a similar logic seems likely to apply to the general public.<sup>81</sup> These factors may

<sup>76.</sup> Jim VandeHei and John F. Harris, "Democrats Remain Stalled on Iraq Debate," *Politico*, 30 November 2009. Available at (http://dyn.politico.com/printstory.cfm?uuid=3602EDC4-3048-5C12-005578659CDA41C0). Accessed 2 April 2010.

<sup>77.</sup> See, for example, Fearon 1994; Smith 1998; Schultz 2001; Baum 2004a; and Slantchev 2006.

<sup>78.</sup> Fearon 1994.

<sup>79.</sup> Baum 2004a.

<sup>80.</sup> Schultz 2001.

<sup>81.</sup> Baum 2004a. See also Slantchev 2006.

weaken leaders' hands in international bargaining situations by reducing their capacity to generate or sustain the domestic audience costs necessary for signaling resolve.

Conversely, one might take heart from the apparent limits we have documented on the capacity of elites to indefinitely manipulate public perceptions of reality. Sooner or later, it would seem, the public can discern the true merits of a conflict, to at least some degree, regardless of elite efforts to spin events to their partisan advantage. This suggests that the "audience" is not necessarily the passive rubber stamp frequently assumed by audience cost theories. Indeed, depending on the merits of a leader's preferred foreign policy actions, it is unclear that a given nation's interests are necessarily always best served by maximizing the credibility of its leader's threats.

Notwithstanding the potential dangers of rogue democratic leaders pursuing unwise foreign policies, sometimes a perceived record of distortion and manipulation on the part of an administration can prevent the public from accurately perceiving the reality of a conflict, even when that reality has actually shifted—as we saw in our examination of the Surge in late 2007. For instance, it seems clear in hindsight that President Bush's speech 2 May 2003 aboard the aircraft carrier *U.S.S. Abraham Lincoln*—in which he declared that "in the Battle of Iraq, the United States and our allies have prevailed"<sup>82</sup> before a large banner reading "Mission Accomplished"—later reduced the persuasiveness of his assertions that the U.S. military was making progress in Iraq.<sup>83</sup> Indeed, much like the boy who cried wolf, politicians who are too quick to claim victory or the accomplishment of a mission risk having no one believe them if or when their long-promised victory actually arrives.<sup>84</sup>

83. On June 5, 2003, in a message to U.S. troops at Camp Asayliyah, President Bush reiterated his mission accomplished declaration, stating, "America sent you on a mission to remove a great threat and to liberate an oppressed people, and that mission has been accomplished." See Judy Keen, "Bush to Troops: Mission Accomplished." USA Today, 5 June 2003. Available at (http://www.usatoday.com/ news/world/iraq/2003-06-05-bush-qatar\_x.htm). Accessed 24 December 2009. As events in Iraq deteriorated, critics of President Bush explicitly invoked his "mission accomplished" assertion to attack his credibility. Not surprisingly, these invocations varied by news outlet. Fox News, which is generally perceived to be sympathetic to Bush, referenced "mission accomplished" sixty-eight times in Bush-related Iraq stories in 2004–2005, and only forty in 2006–2007—a mild decrease. In contrast, MSNBC invoked "mission accomplished" sixty-four times in 2004–2005 and 449 times in 2006–2007, a seven-fold increase (Lexis-Nexis search for [Bush and Iraq and "mission accomplished"], conducted 1 February 2009).

84. Presumably such retrospective evaluations are especially useful in the case of presidential rhetoric, which is more likely to receive attention from journalists and the public—both at the time of the original statement and in subsequent fact-checking efforts. Presidential critics should receive the same type of retrospective re-evaluation. Yet, the relative obscurity of most such critics should make any such misrepresentations less risky for them relative to the president, especially if they occur when the critic's party is out of power. (See Groeling 2010, for a discussion of how the president and his party are far more rhetorically constrained than the opposing party, particularly in unified government.)

<sup>82.</sup> CBS News, Text of Bush Speech: President Declares End to Major Combat in Iraq. 1 May 2003. Available at (http://www.cbsnews.com/stories/2003/05/01/iraq/main551946.shtml). Accessed 2 April 2010.

# Appendix

Survey Question Wording: Polimetrix

- 1. Do you believe the prospects for a U.S. victory in Iraq (as you define it) are better, worse, or about the same as they were a year ago?
- 2. In your opinion, has the Bush Administration's ability to influence public opinion regarding the Iraq War increased, decreased, or remained about the same since 2003?
- 3. Has the "Surge" (that is, the U.S. counterinsurgency campaign begun in 2007 that increased the U.S. troop presence in Iraq by over 30,000) increased or decreased the likelihood of a U.S. victory in Iraq, or has it had no significant effect on the likelihood of victory?
- 4. Have the average monthly U.S. military and Iraqi civilian casualties in Iraq increased, decreased, or stayed at about the same level since the start of the "Surge"?

# Presidential Public Rhetoric Data Analysis: Variable Definitions and Sources

DAYS SINCE LAST STATEMENT: number of days since last presidential statement on Iraq.

PREWAR: dummy coded 1 prior to March 20, 2003.

PRESS STATEMENT/CONFERENCE: dummy variable, coded 1 for press statements or conferences.

BUSH MENTIONS OF SADDAM: number of times Saddam Hussein was mentioned in the speech.

IRAQ FOCUS: coded 1 if Iraq was primary focus of presidential statement, .5 if Iraq was one of two major issues covered in statement, and 0 if Iraq was one of three or more issues covered.

% $\Delta$ NETWORK IRAQ STORIES: percent change in network news stories mentioning Iraq (weeks t to t+1).

PRESIDENTIAL APPROVAL<sub>t-1</sub>: most recent Gallup or CBS presidential approval poll rating prior to date of presidential statement on Iraq.

GAS PRICES: average weekly gas prices, available at (http://tonto.eia.doe.gov/dnav/pet/pet\_pri\_gnd\_dcus\_nus\_w.htm). Accessed 2 April 2010.

WEEKLY U.S. CASUALTIES: weekly tally of hostile U.S. casualties, from U.S. Department of Defense.

 $\Delta$ U.S. CASUALTIES: weekly change in hostile U.S. casualties (same source as above).

ΔIRAQI CASUALTIES: weekly change in Iraqi civilian casualties, from (www.IraqBody-Count.org). Accessed 2 April 2010.

 $\Delta$ consumer sentiment: monthly change in consumer sentiment from (www.econo-magic.com). Accessed 2 April 2010.

ΔCPI: monthly net change in consumer price index, from (http://inflationdata.com/ inflation/Consumer\_Price\_Index/CPI.asp). Accessed 2 April 2010.

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