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SOME EVIDENCE FROM BANKRUPTCY

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KEITH SHARFMAN*

ABSTRACT

This Article presents an empirical study of judicial valuation in the bankruptcy context, focusing on twenty-four valuation disputes in which a bankruptcy judge reached a valuation outcome between the values contended for by the parties. Two main findings emerged from the cases studied: (1) bankruptcy judges on average allocated 65.2% of the value in controversy to debtors and 34.8% to secured creditors; and (2) bankruptcy judges were more than three times as likely to allocate most of the value in controversy to debtors as they were to secured creditors. These results lend empirical support to the behaviorist intuition that loss aversion bias informs judicial decisionmaking and may have further implications for substantively neutral reform of the processes whereby valuation disputes are resolved.

I. INTRODUCTION

Valuation litigation is notoriously unpredictable. When the value of a legal entitlement is in dispute, one party typically will ask for a high valuation, the other for a low one, and each will offer evidence in support of its position. The trier of fact may in the end agree with one side or the other, but could just as easily settle upon a third value of its own choosing. The valuation inquiry is thus inherently imprecise, a discretionary exercise that depends largely on the

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whims and predispositions of the factfinder. Given this imprecision, conventional legal scholarship has been unable to articulate a convincing theory of legal valuation. 2 Rather than theorize about which valuation methodologies courts can, should, and do employ, the favored approach has been to shift away from valuation method and to focus instead on process reforms that would lead to more predictable outcomes in valuation litigation. 3

Behavioral analysts of law, however, have yet to give up searching for a viable theory of legal valuation. They are unsatisfied by the failure of conventional scholarship to go beyond the "inherent imprecision" thesis and have sought ambitiously through both theory and data to offer a more robust account. 4 The behavioral approach seeks first to understand how individuals handle questions of valuation and then to extrapolate from insights about individuals to an analysis of legal institutions. 5 Rather than accept the claim that there is no rhyme or reason to legal valuation, behaviorists have sought to explain legal valuation outcomes that seem irrational, inconsistent, or unpredictable in light of cognitive limitations and biases to which

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2. The leading treatise on the subject simply describes the law's incoherence with respect to valuation without offering any theory to explain it. JAMES C. BONBRIGHT, THE VALUATION OF PROPERTY: A TREATISE ON THE APPRAISAL OF PROPERTY FOR DIFFERENT LEGAL PURPOSES 3, 7-9 (1937) (describing "the problem of judicial valuation" and "the major task of developing the theory of legal valuation"); see also James C. Bonbright, The Problem of Judicial Valuation, 27 COLUM. L. REV. 493, 518 (1927) (concluding "that many differences in judicially accepted property values are quite unwarranted . . . and their presence can be accounted for only by favoritisms, confusions, and ineptitudes").


5. Id.
judges and juries are systematically (and hence predictably) subject. In particular, behaviorists claim that legal decisionmakers value losses more highly than gains and that apparent anomalies in legal valuation may best be understood in terms of “loss aversion” or “status quo preservation” biases in legal institutions that are analogous to similar biases observed in individuals. According to this view, judges and juries will tend, other things being equal, to undervalue the legal entitlements of plaintiffs and overvalue the legal entitlements of defendants relative to some “objective” valuation benchmark such as market value.

A general critique of the behavioral approach to law (that also applies specifically in the valuation context) is that while it may succeed in explaining apparent behavioral irrationalities and inconsistencies ex post, it does not offer more predictive value ex ante than the competing analytic frameworks (such as wealth maximization and rational choice theory) that it debunks and seeks to replace. A somewhat weaker version of this critique is that behaviorist explanations of legal phenomena, while useful for identifying new variables that help to explain the behavior of actors in the legal system, are nevertheless incomplete. Knowing, for example, that judges and juries are biased in a particular way (against losses, say) does not really end the search for a theory of legal valuation. At most, identification of loss aversion as a bias helps to understand legal valuation better than it was previously, but it still cannot (and indeed does not purport to) explain the legal valuation phenomenon in its entirety. Behaviorists themselves appear to agree with their critics that more data and more theories are always useful and that identification of

6. Id.; see also W. Kip Viscusi, Do Judges Do Better?, in PUNITIVE DAMAGES: HOW JURIES DECIDE 186, 206 (Cass R. Sunstein et al. eds., 2002) (“Judges are human and may reflect the same kinds of irrationalities as other individuals.”).


8. I use the terms plaintiffs and defendants somewhat loosely here. By plaintiffs I mean parties who seek to gain wealth through assertion of a legal entitlement, and by defendants I mean parties seeking to avoid a loss of wealth by disputing a legal claim. In the case of counterclaims, these labels are reversed.

new variables merely advances but does not end the behaviorist inquiry.  

The empirical approach taken in this Article should therefore be welcomed by both behaviorists and their critics. If the loss aversion theory of legal valuation is incorrect, empiricism can usefully provide evidence to negate it. Conversely, if behaviorists are right that loss aversion bias is a significant explanatory variable for legal valuation, the effect ought to be empirically demonstrable not only in experimental settings but also in the “real world” of valuation litigation. With a stronger empirical foundation, the loss aversion theory of legal valuation would become less conjectural and more convincing.

To these ends, this Article identifies and studies a doctrinal area in which loss aversion bias is likely at work and endeavors to document empirically its manifestation and effects. The doctrinal area identified and examined is bankruptcy valuation litigation, and the study’s main empirical finding is that outcomes in bankruptcy valuation litigation are consistent with a hypothesis of loss aversion bias. In addition to providing empirical evidence consistent with the loss aversion theory of legal valuation, the study also confirms anecdotal evidence that bankruptcy judges are “pro-debtor,” contradicting the findings of another recent study.


More specifically, the study found that in cases where the bankruptcy judge reached a valuation in between those contended for by the parties (1) bankruptcy judges on average allocated 65.2% of the value in controversy to debtors (that is, loss-averse parties opposing a wealth transfer) and only 34.8% to secured creditors (that is, risk-neutral or relatively less loss-averse parties seeking a wealth transfer); and (2) bankruptcy judges were more than three times as likely to allocate most of the value in controversy to debtors as they were to secured creditors.

II. THE STUDY

A. Motivation

The study undertaken here tests for empirical support for the loss aversion theory of legal valuation generally and for the more specific claim that bankruptcy judges are “pro-debtor.” There is already considerable anecdotal evidence suggesting that bankruptcy judges are “pro-debtor,” and loss aversion bias provides a theory to explain why they might be. But more than anecdotal evidence is needed to conclude that bankruptcy judges are in fact pro-debtor, particularly since a recent empirical study has cast some doubt on the claim.

Why look at valuation specifically in the bankruptcy context? Because if there is anything to the loss aversion theory of legal valuation, one surely would expect loss aversion bias to find expression in the valuation decisions of bankruptcy judges. Bankruptcy valuation disputes typically pit a highly risk-averse party (the debtor or unsecured creditors) against a risk-neutral or relatively less risk-averse party (secured creditors). If loss aversion indeed affects judicial valuation behavior, one would expect bankruptcy judges to tilt their valuation decisions in favor of loss-averse debtors and unsecured creditors and against risk-neutral secured creditors.

Morrison’s study concerns the issue of liquidating business debtors and the study here deals with valuing the collateral of individual debtors, the studies are nevertheless in some tension because a priori one would expect bankruptcy judges to be just as averse to the losses experienced by the owners, managers, and employees of business debtors as they are to those faced by individual debtors.


15. See Morrison, supra note 13 (finding, contrary to the conventional wisdom, that bankruptcy judges efficiently liquidate debtor firms rather than allow them to operate in financial distress indefinitely).

16. For a useful description of the intuition behind possible pro-debtor bias in connection with the valuation of collateral, see Theodore Eisenberg, The Undersecured Creditor in Reorganizations and the Nature of Security, 38 VAND. L. REV. 931, 948 (1985) (“A reorganization court dealing with a financially distressed debtor might err, even subconsciously, on the side of undervaluing collateral. Undervaluing collateral enables
Consider the following very common situation. Debtor, an individual with regular income, faces a temporary economic setback (due, say, to a fire that destroyed her uninsured home). Unable to pay her bills, she petitions for relief under Chapter 13 of the Bankruptcy Code. Most of Debtor’s creditors are unsecured. But one of them is GMAC, which previously had financed Debtor’s purchase of a GM car and had secured the loan by taking a security interest in the vehicle. GMAC’s claim against Debtor will be allowed as a secured claim “to the extent of the value” of the car. If Debtor elects to retain rather than surrender the car, GMAC would have the right to insist that Debtor’s Chapter 13 adjustment plan provide for full payment of GMAC’s allowed secured claim. How the bankruptcy court values the car could thus affect the size of Debtor’s scheduled payments under the plan. The higher the valuation of the secured creditor’s collateral, the higher must be the Debtor’s payments.

In her plan, Debtor will likely propose a low but plausible valuation. If GMAC objects to Debtor’s plan, it will likely propose in support of its objection a higher but also plausible value. What the bankruptcy court will do is difficult to predict. It might accept Debtor’s valuation, or GMAC’s, or pick some number in between. The Supreme Court has tried to give bankruptcy judges some guidance on how to make valuations of this sort, instructing them to value debtor-retained collateral under a “replacement-value standard”—that is, “the cost the debtor would incur to obtain a like asset for the same proposed . . . use.” But bankruptcy courts continue to be all over the debtor to use the collateral at a lower cost and, therefore, enhances the chances for successful reorganization. Erroneous overvaluation of collateral may increase a debtor’s costs to the point of endangering the reorganization. Thus, a bankruptcy court with an inclination towards a reorganization might naturally err on the side of undervaluing collateral.

Cf. Alan Schwartz, *The Enforceability of Security Interests in Consumer Goods*, 26 J.L. & ECON. 117 (1983) (recognizing that debtors may value the right to retain collateral more highly than the collateral’s market value and thus more highly than would a repossessing creditor).

2. See id. § 506(a) (“An allowed claim of a creditor secured by a lien on property in which the estate has an interest . . . is a secured claim to the extent of the value of such creditor’s interest in the estate’s interest in such property, . . . and is an unsecured claim to the extent that the value of such creditor’s interest . . . is less than the amount of such allowed claim. Such value shall be determined in light of the purpose of the valuation and of the proposed disposition or use of such property . . . .”).
3. See id. § 1325(a)(5).
the map in applying the replacement-value standard, which is nearly as slippery as the statutory language it sought to clarify.

A non-behaviorist looking at this frequently recurring bankruptcy valuation problem might say that valuation is inherently imprecise, that bankruptcy judges are making factual determinations as best they can, and that there is little else that legal scholarship can say about how bankruptcy judges are likely to handle the valuation problem. A behaviorist, however, might say that bankruptcy judges are likely, other things being equal, to tilt in favor of loss-averse debtors and give the collateral a relatively low valuation within the zone of plausibility, rather than tilt in favor of risk-neutral secured creditors who are seeking a higher valuation in order to obtain higher payments. The study here attempts to assess the accuracy of this behaviorist intuition.

B. Framework

Like valuation disputes generally, every bankruptcy valuation dispute involves a high proposed valuation, a low proposed valuation, and an adjudicated outcome. So the key variables in assessing bankruptcy valuation judgments are (1) the debtor’s proposed valuation (“D”); (2) the secured creditor’s proposed valuation (“C”); and (3) the adjudicated value (“J”). A fourth relevant variable, the value in controversy, or “stakes” (“S”), may be obtained by subtracting the low proposed valuation from the high proposed valuation (which in the case of disputes over the value of debtor-retained collateral means subtracting the debtor’s valuation from the creditor’s—that is, $S = C - D$). And finally, a fifth relevant variable (“P”) is the percentage share of the value in controversy allocated to the debtor, which may be calculated by subtracting the adjudicated value from the creditor’s


23. See Assocs. Commercial Corp., 520 U.S. at 965 n.6 (“[T]he replacement-value standard . . . leaves to bankruptcy courts, as triers of fact, identification of the best way of ascertaining replacement value on the basis of the evidence presented.”).

24. Note that in other contexts, the secured creditor might well favor a low rather than high valuation—e.g., cases where the debtor surrenders the collateral; reorganization cases where the value in issue is the reorganizing entity itself such that the secured creditor’s share would be greater the less the court decides the reorganizing entity is worth.
proposed valuation and then dividing the sum by the value in controversy (that is, \( P = (C - J)/S \)).

This framework has two main advantages. First, calculating the debtor’s allocation not as a raw number but rather as a percentage share normalizes the variable across cases with stakes of varying sizes and thereby facilitates meaningful comparison across cases. Using percentages in this way to facilitate cross-case comparison is a common technique in legal valuation scholarship. Second, assessing what valuation litigants obtain in court in relation to what they have asked for is a useful way to cut through the bewildering fog of rhetoric and valuation methodologies that courts employ in valuation litigation and focus instead on what courts actually do rather than on what they say.

Historically, a results-oriented focus was not the usual approach in studies of bankruptcy valuation, which tended to emphasize valuation doctrines and methods rather than the systematic study of valuation results. Some recent work has focused more on results than has been done in the past, but has considered valuation outcomes not in relation to what the parties have asked for but rather in comparison to objective indicators of market value. Other recent bankruptcy valuation scholarship has recognized the role and importance of party differences in valuation disputes, but has focused on contractual mechanisms for resolving such differences rather than on their relationship to litigation outcomes.

25. The idea here is that the debtor’s percentage share of the value in controversy is captured by the distance between the valuation the creditor asks for and the valuation it obtains in proportion to the distance between the parties. If the court agrees entirely with the creditor’s valuation (i.e., if \( J = C \)), then the debtor’s allocated share of the value in controversy is zero. Conversely, if the court entirely agrees with the debtor’s valuation (i.e., \( J = D \)), then the debtor’s share is 100% (i.e., \( (C - J) = S \); therefore, \( (C - J)/S = (C - J)/(C - J) = 1 \)). And so forth.


27. As Seligman explains, valuation results, rather than doctrine or method, ought to be the focus of legal valuation scholarship. Id. at 855 (advocating empirical analysis of corporate valuation “results themselves” rather than a “focus on how results are obtained”).

28. See, e.g., Fortgang & Mayer, supra note 11.

29. For example, a recent bankruptcy valuation study compared “negotiated reorganization values” agreed to by parties in Chapter 11 proceedings with various indirect measures of market or “intrinsic” value, such as the reorganized entity’s post-reorganization market capitalization. See Marcus Bernard Butler III, Valuation Conflicts in Corporate Bankruptcy (2003) (unpublished Ph.D. dissertation, University of Chicago Graduate School of Business), available at http://www.ssb.rochester.edu/fac/Butler/chithesis_final.pdf (last visited Sept. 8, 2004).

In contrast to earlier and contemporaneous work, the approach taken here is to examine how judges allocate the value in controversy in valuation litigation. That is, the valuations that litigants contend for are considered in relation to the adjudicated valuation outcomes they later obtain. Analysis of how courts allocate the value in controversy among valuation litigants is an approach to legal valuation scholarship that, so far as I know, originates with me. And the study undertaken here is the first empirical application of that approach.

C. Data Selection

With a sensible set of variables to look for, two questions remained: What data should be collected, and which of the collected data should be kept rather than discarded? My thought was to search for recent bankruptcy opinions addressing valuation disputes where each side’s proposed valuation was reported along with the adjudicated outcome. I therefore searched the Westlaw bankruptcy case database for cases containing a word with the root “valu!” within close range of a word with the root “propos!” and looked at cases digested by West in its annotated version of the United States Code following 11 U.S.C. § 506(a) (the provision of the Bankruptcy Code concerning the valuation of collateral), as well as cases citing the Rash decision (the leading Supreme Court decision on valuing collateral in bankruptcy).

The search was, inevitably, both over- and underinclusive. Many of the cases did not involve valuation disputes at all, or involved valuation disputes but did not report all three of the variables necessary for the study. Cases falling in these categories were discarded. Other cases containing the necessary variables were surely missed.

A further category of disregarded cases merits special mention and explanation. Some of the cases generated by the search that reported data for all three variables necessary for the study (D, C, and J) were nevertheless discarded. This was done where the adjudicated value (J) was found to be equal to one of the party valuations rather than determined to be an amount in between. The reason for discarding these one-sided cases, some of which were won by the creditor and others by the debtor, was that the judicial valua-

31. See Sharfman, supra note 3, at 370-71 (focusing analysis on the amount of value in controversy rather than on the overall value of the entitlement in question).
32. Identified cases allocating 100% of the value in controversy to the creditor include see Evabank v. Baxter, 278 B.R. 867 (N.D. Ala. 2002); and In re Russell, 211 B.R. 12 (Bankr. E.D.N.C. 1997).
33. Identified cases allocating 100% of the value in controversy to the debtor include In re Weathington, 254 B.R. 895 (B.A.P. 6th Cir. 2000); Consumer Portfolio Services, Inc. v.
tions reported in them were less likely to be products of the exercise of judicial discretion than cases where \( J \) fell between \( D \) and \( C \). This is so because complete adoption of one side’s valuation suggests that the judge felt constrained in some way (either factually or legally) and thus was not exercising judicial discretion when making the valuation. A frequent example of this occurs when one party fails to back its valuation with any credible evidence. In such a case, the judge will usually feel constrained to adopt the other side’s valuation, even if the judge might otherwise have been inclined to choose a compromise figure if the party failing to offer evidence in support of its valuation had actually presented a plausible valuation. The study was thus limited to only the clearest examples of discretionary judicial valuation—that is, cases where the judge imposed a compromise figure in between those contended for by the parties. If bankruptcy judges are motivated by loss aversion, that aversion is most likely evident in this category of cases.

In the end, after appropriately discarding cases to ensure that the sample studied would be representative, only a relatively small number (twenty-four) were left on which to perform the study. But a sample of twenty-four valuation disputes is probably large enough for the study to still be useful.\(^\text{34}\) And if more cases meeting the study’s criteria are found, the sample could always be enlarged in subsequent research.

**D. Results**

The results obtained in the study are summarized in Table 1 below. The main findings are that in the bankruptcy valuation disputes studied (1) bankruptcy judges on average allocated 65.2% of the value in controversy to debtors and only 34.8% to secured creditors; and (2) bankruptcy judges were more than three times as likely to allocate most of the value in controversy to debtors as they were to secured creditors.\(^\text{35}\)

\(^{34}\) Compare Seligman, supra note 26, at 855-56 & n.115, which analyzed a data set of only twelve corporate valuation cases—a sample deemed representative enough for use in a later study. See Kenton K. Yee, *Judicial Valuation and the Rise of DCF*, PUB. FUND DIG., 2002, at 76, 81-82 (performing further tests on the Seligman sample).

\(^{35}\) The “more than three times as likely” figure is based on the fact that the debtor’s allocated share exceeded 50% in seventeen of the disputes studied and was less than 50% in only five of the cases studied. Seventeen is more than three times as many as five.
Table 1

SHARE OF VALUE IN CONTROVERSY ALLOCATED TO DEBTOR IN SELECT BANKRUPTCY VALUATION DISPUTES

<table>
<thead>
<tr>
<th>Case</th>
<th>Debtor’s Value</th>
<th>Creditor’s Value</th>
<th>Adjudicated Value</th>
<th>Value in Controversy</th>
<th>Share</th>
</tr>
</thead>
<tbody>
<tr>
<td>In re Stark, 311 B.R. 750 (Bankr. N.D. Ill. 2004)</td>
<td>14,500</td>
<td>24,850</td>
<td>17,475</td>
<td>10,350</td>
<td>71.3%</td>
</tr>
<tr>
<td>In re Washington, 2003 WL 2118119 (Bankr. E.D. Ark.)</td>
<td>29,500</td>
<td>37,925</td>
<td>17,475</td>
<td>10,350</td>
<td>71.3%</td>
</tr>
<tr>
<td>In re Boise, 2003 WL 1955719 (Bankr. D. Ark.)</td>
<td>8,000</td>
<td>8,750</td>
<td>11,250</td>
<td>6,495</td>
<td>78.3%</td>
</tr>
<tr>
<td>In re Gonzalez, 295 B.R. 384 (Bankr. E.D. Ill. 2003)</td>
<td>1,000</td>
<td>7,495</td>
<td>2,411</td>
<td>6,495</td>
<td>78.3%</td>
</tr>
<tr>
<td>In re Stembridge, 285 B.R. 458 (Bankr. E.D. Tex. 2002)</td>
<td>9,540</td>
<td>13,475</td>
<td>12,825</td>
<td>3,935</td>
<td>16.5%</td>
</tr>
<tr>
<td>In re Grey, 265 B.R. 379 (Bankr. D. Nev. 2004)</td>
<td>6,040</td>
<td>6,450</td>
<td>5,745</td>
<td>2,210</td>
<td>50.0%</td>
</tr>
<tr>
<td>In re Clinic, 252 B.R. 352 (Bankr. S.D. Ohio 2001)</td>
<td>15,000</td>
<td>26,500</td>
<td>18,500</td>
<td>11,500</td>
<td>69.0%</td>
</tr>
<tr>
<td>In re Marquez, 270 B.R. 361 (Bankr. D. Ariz. 2001)</td>
<td>11,000</td>
<td>15,500</td>
<td>13,074</td>
<td>4,500</td>
<td>40.0%</td>
</tr>
<tr>
<td>In re Ballard, 258 B.R. 707 (Bankr. W.D. Tenn. 2001)</td>
<td>7,825</td>
<td>9,420</td>
<td>8,025</td>
<td>1,895</td>
<td>69.6%</td>
</tr>
<tr>
<td>In re Richards, 243 B.R. 15 (Bankr. N.D. Ohio 1999)</td>
<td>11,000</td>
<td>15,500</td>
<td>13,074</td>
<td>4,500</td>
<td>40.0%</td>
</tr>
<tr>
<td>In re Getz, 242 B.R. 916 (Bankr. N.D. Ill. 2000)</td>
<td>7,500</td>
<td>8,825</td>
<td>7,150</td>
<td>3,125</td>
<td>47.7%</td>
</tr>
<tr>
<td>In re Winston, 236 B.R. 147 (Bankr. E.D. Pa. 1999)</td>
<td>9,150</td>
<td>15,280</td>
<td>9,537</td>
<td>6,130</td>
<td>93.7%</td>
</tr>
<tr>
<td>In re Rocci, 237 B.R. 740 (Bankr. W.D. Mo. 1999)</td>
<td>11,272</td>
<td>12,950</td>
<td>11,471</td>
<td>1,479</td>
<td>69.6%</td>
</tr>
<tr>
<td>In re Lyon, 236 B.R. 854 (Bankr. N.D. Neb. 1999)</td>
<td>12,375</td>
<td>15,650</td>
<td>14,650</td>
<td>3,275</td>
<td>36.6%</td>
</tr>
<tr>
<td>In re McCutchen, 224 B.R. 375 (Bankr. W.D. Mich. 1998)</td>
<td>4,000</td>
<td>8,825</td>
<td>6,150</td>
<td>4,625</td>
<td>46.6%</td>
</tr>
<tr>
<td>In re Ghareh, 223 B.R. 314 (Bankr. S.D. Ohio 1998)</td>
<td>12,350</td>
<td>14,100</td>
<td>12,925</td>
<td>1,575</td>
<td>87.1%</td>
</tr>
<tr>
<td>In re O’gara, 221 B.R. 515 (Bankr. W.D. Cal. 1998)</td>
<td>7,390</td>
<td>8,400</td>
<td>8,025</td>
<td>790</td>
<td>50.0%</td>
</tr>
<tr>
<td>In re Younger, 216 B.R. 649 (Bankr. W.D. Okla. 1999)</td>
<td>11,988</td>
<td>14,575</td>
<td>12,200</td>
<td>2,575</td>
<td>89.1%</td>
</tr>
<tr>
<td>In re Franklin, 213 B.R. 781 (Bankr. N.D. Fla. 1997)</td>
<td>14,000</td>
<td>17,000</td>
<td>15,418</td>
<td>3,000</td>
<td>52.7%</td>
</tr>
<tr>
<td>In re McElroy, 210 B.R. 633 (Bankr. D. Or. 1997) (truck)</td>
<td>5,000</td>
<td>8,800</td>
<td>5,950</td>
<td>3,000</td>
<td>66.6%</td>
</tr>
<tr>
<td>In re McElroy, 210 B.R. 633 (Bankr. D. Or. 1997) (car)</td>
<td>1,000</td>
<td>2,315</td>
<td>1,570</td>
<td>1,115</td>
<td>66.6%</td>
</tr>
<tr>
<td>In re Sharon, 200 B.R. 181 (S.D. Ohio 1997)</td>
<td>21,000</td>
<td>26,250</td>
<td>24,737</td>
<td>2,700</td>
<td>55.0%</td>
</tr>
<tr>
<td>In re Douglass, 1996 WL 57837 (Bankr. S.D. Ga.)</td>
<td>21,275</td>
<td>26,250</td>
<td>24,737</td>
<td>2,700</td>
<td>55.0%</td>
</tr>
<tr>
<td>In re Angel, 147 B.R. 48 (Bankr. D. Idaho 1992)</td>
<td>6,075</td>
<td>11,090</td>
<td>7,150</td>
<td>3,925</td>
<td>73.6%</td>
</tr>
</tbody>
</table>

AVERAGE SHARE ALLOCATED TO DEBTOR: 65.2%

E. Analysis and Implications

The results reported here suggest that when bankruptcy judges are faced with a plausible choice between competing valuations, they are three times more likely than not to exercise discretion in favor of the debtor and on average do so in a substantial way (by the margin of 65.2% to 34.8%). The data do not themselves reveal why bankruptcy judges favor debtors in valuation disputes; just that they do. But loss aversion supplies a plausible explanation for the pro-debtor tilt that we observe in the cases: namely, that bankruptcy judges implicitly value debtor losses (that is, the cost of making payments to the secured creditor) more highly than creditor gains (that is, the benefit of receiving payments from the debtor). 37

36. The figures reported here are rounded to the nearest dollar or tenth of a percent. The overall result reported at the bottom of the table is based on an equally weighted average of the averages in the “Debtor’s Share” column.

37. To be sure, it is possible to explain the data without resort to a bias theory. It may well be that secured creditors, perhaps because they are repeat players who wish to establish reputations as tough valuation litigants, are systematically more aggressive than debtors in the valuation positions that they take. But it is difficult to see why debtors (whose lawyers are repeat players even if their clients are not) would not have just as powerful an incentive to litigate aggressively.
Suppose it is true that bankruptcy judges favor debtors in valuation disputes and that loss aversion bias explains this behavior. Still it would not be clear what, if anything, should be done about it. It may be entirely sensible as a matter of bankruptcy policy to respect a judicial preference that losses should count for more than gains of equal financial size. While such a policy approach would be inconsistent with the goal of wealth maximization in the Kaldor-Hicks sense, it would hardly be the first instance of a policy departure from that ideal. Moreover, sensitivity to loss aversion could well be utility-maximizing even if wealth-reducing. Finally, if bankruptcy judges have pro-debtor biases, non-bankruptcy judges (and juries) are likely to have them too—and so restraining pro-debtor bias in the bankruptcy area exclusively would encourage forum shopping and violate the basic principle of respecting non-bankruptcy entitlements in bankruptcy.

While this study does not suggest any need to reassess bankruptcy policy, its findings do have implications for reform of the procedures generally used to resolve valuation disputes. In previous work I have argued that “valuation averaging”—a process whereby valuation disputes are resolved by averaging parties’ valuation proposals with each other and (if they are far enough apart) with that of a neutral expert—would be a useful measure to adopt. Although suggested as a substantive enactment rather than a procedural rule, the proposal was intended to be substantively neutral on average with respect to outcomes. A background assumption underlying the proposal was that factfinders in valuation disputes tend on average to “split the difference” equally between the parties (though the split is not necessarily equal in any given case). For valuation disputes of the type in which factfinders tend on average to split differences equally, a fifty-fifty weighting of the respective plaintiff and defendant valuations would achieve substantive neutrality relative to average current outcomes. But for particular litigation contexts where empirical research shows that factfinders do not on average split the difference equally (for example, the sixty-five to thirty-five average allocation found here for bankruptcy valuation disputes with respect to debtor-retained collateral), valuation averaging could be implemented with substantive neutrality only by attach-

39. The policy of protecting non-bankruptcy entitlements in bankruptcy is often referred to as “the Butner principle” after the case that established the doctrine. See Butner v. United States, 440 U.S. 48, 55 (1979); Thomas H. Jackson, Bankruptcy, Non-Bankruptcy Entitlements, and the Creditors’ Bargain, 91 Yale L.J. (1982).
40. Sharfman, supra note 3, at 370-79.
41. See id. at 370 n.46.
42. Id. at 359 & nn.6-7.
ing weights to the party values used in the valuation averaging process that approximate the average results that courts reach outside it.

This is not to say that substantive neutrality is an absolute must. Rather, the point is that while substantive neutrality may or may not be something that policymakers would wish to achieve when shifting from current valuation processes to a valuation averaging-type process, the substantive impact of such a shift (if any) is something that they probably will wish to (and at any rate should) take into account. Further empirical studies of the sort undertaken here would help policymakers to do that.

III. Conclusion

This Article presents an empirical study of the valuation behavior of bankruptcy judges in disputes between debtors and secured creditors over the value of debtor-retained collateral. The motivation for conducting the study was to find empirical support for what a behaviorist might call the loss aversion theory of legal valuation, which is the idea that legal decisionmakers tend to value losses more highly than gains of equal financial size. An implication of the theory is that bankruptcy judges will tend to favor loss-averse debtors over gain-seeking secured creditors in disputes with potential loss consequences for the debtors (such as disputes concerning the value of debtor-retained collateral)—which is just another way of stating the conventional wisdom that bankruptcy judges tend to be pro-debtor.

Empirical support was found for both the loss aversion theory of legal valuation and the pro-debtor bias intuition. The study’s main findings were that in the bankruptcy valuation disputes studied (1) bankruptcy judges on average allocated 65.2% of the value in controversy to debtors and only 34.8% to secured creditors; and (2) bankruptcy judges were nearly three times as likely to allocate most of the value in controversy to debtors as they were to secured creditors. These findings suggest that bankruptcy judges may indeed have a pro-debtor orientation. And they are consistent with, and indeed may best be explained by, the loss aversion theory.

As a normative matter, the study’s findings likely do not have important implications for bankruptcy policy. While evidence of pro-debtor bias among bankruptcy judges may seem to cry out for reform, the reality is that a pro-debtor judicial tilt could well be sensible bankruptcy policy, given the widespread preference among individuals to value losses more highly than gains of equal financial value. It is true that allowing loss aversion to find expression in bankruptcy policy is at odds with considerations of wealth maximization and Kaldor-Hicks efficiency. But public policy often subordinates effi-
ciency to other concerns, and concern about loss aversion could well justify bankruptcy valuation outcomes that depart from efficiency.

The empirical study here and other potential studies of a similar nature may, however, have normative implications beyond the bankruptcy context for general reform of the processes by which valuation disputes are resolved. The study here demonstrates that party valuation differences are not on average split equally in bankruptcy valuation disputes, and similarly asymmetric difference splitting may be the norm for valuation disputes in other contexts as well. The possibility of systematically non-equal difference splitting means that shifting to more mechanical valuation procedures such as “value averaging” would in some contexts not be achievable with substantive neutrality absent the attachment of asymmetric weightings to the parties’ respective positions. Finding the appropriate calibration of these weightings for particular contexts will require further, context-specific empirical study.