Rush to Judgment? Trial Length and Outcomes in Patent Cases¹

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Most patent trials in the last thirty years have been before juries. While the vast majority of patent cases settle before trial, the fact that a jury waits at the end of the road affects most aspects of patent litigation, from where parties file their cases to who they sue (and in what groups) to what discovery the parties consider important to the fight over whether particular doctrines are questions of law or questions of fact. Litigants on both sides go to great lengths to try to get to an edge before the jury, hiring jury consultants, practicing their cases before mock juries, and choosing districts and judges based on how they will manage the case before the jury.

For the last decade the received wisdom in the patent bar has been that the best place for patentees to file their suit is the Eastern District of Texas.⁵ One of us recently challenged that wisdom in an empirical study, pointing out that the popularity of the district has slowed proceedings there considerably.⁶ But the Eastern District remains the most popular venue for patent plaintiffs, in significant part because of the perception that the juries there are propatentee and that the judges manage their cases in ways that patentees find favorable. In

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⁴ Legal Department, Google Inc. Thanks to Tim Malloy for raising the issue with us and to John Allison, Colleen Chien, Chris Cotropia, Rose Hagan, Lee Petherbridge, David Schwartz, and participants at the Empirical Patent Studies workshop at Cornell Law School for helpful comments.

⁵ See, e.g., Yan Leychkis, Of Fire Ants and Claim Construction: An Empirical Study of the Meteoric Rise of the Eastern District of Texas as a Preeminent Forum for Patent Litigation, 9 YALE J.L. & TECH. 193, 195, 204 (2007); Megan Woodhouse, Shop 'til You Drop: Implementing Federal Rules of Patent Litigation Procedure to Wear Out Forum-Shopping Patent Plaintiffs, 99 Geo. LJ. 227 (2010).

⁶ Mark A. Lemley, *Where to File Your Patent Case*, 38 **AIPLA Q.J.** 401 (2010).

particular, the Eastern District of Texas has a reputation for fast trials, and there is a general perception in the patent bar that quick trials (especially involving multiple defendants) favor patentees.⁷ Fast trials prevent defendants from dragging the case into a technical morass of prior art. They keep the jury's attention focused on the patentee's invention, not on all the other things the defendant may have developed. And they are particularly tough for defendants in multi-defendant cases, who must share their time and can't present individual counter-narratives.

In this paper, we set out to test whether the conventional wisdom is correct that short trials favor patentees. Using the Lex Machina database,⁸ we collected data on every patent trial conducted in the United States between January 1, 2000 and June 30, 2011. We first report outcome statistics, then discuss the role of trial length, and finally the role of jurisdiction in driving outcomes.

I. Outcomes

There were 624 patent trials leading to 679 separate judgments during this period. Overall, patentees won 59.9% of those trials, accused infringers won 32.9%, and 7.2% resulted in split decisions.⁹ We report the data in Table 1.

⁷ See, e.g., Tim Malloy, *Trial Time in the ED Texas – One Size Fits All, Or Does It?* (working paper 2011) (surveying judges and finding significant variation in the time allotted for patent trials, and noting that plaintiffs favor the Eastern District of Texas because of its short trials); Megan Woodhouse, Shop 'til You Drop: Implementing Federal Rules of Patent Litigation Procedure to Wear Out Forum-Shopping Patent Plaintiffs, 99 **Geo. L.J.** 227 (2010).

⁸ www.lexmachina.com.

⁹ To win a patent case, a patentee must have a patent claim held valid and infringed. Infringement of a single valid claim was sufficient to count as a patentee win; we did not attempt to make a judgment as to whether the patentee won on most issues or got a large or small damage award.

	Number of	Total	% of Total	Mean	Median	Standard
Variable	Variable Type	Number	Number	Time	Time	Deviation
Total Bench	158	624	25.3%	5.74	5	4.22
Total Jury	466	624	74.7%	8.60	8	4.59
Bench for C						
Win ¹⁰	81	158	51.3%	5.74	5	4.33
Bench For CD						
Win	67	158	42.4%	5.40	5	4.12
Bench For C;CD						
Win	10	158	6.3%	8.00	7.5	3.28
Jury Trial for C						
Win	293	466	62.9%	8.32	7	4.60
Jury Trial for						
CD Win	138	466	29.6%	8.87	8	4.60
Jury Trial for						
C;CD Win	35	466	7.5%	9.83	9	4.14

Table 1: National Trial Outcomes

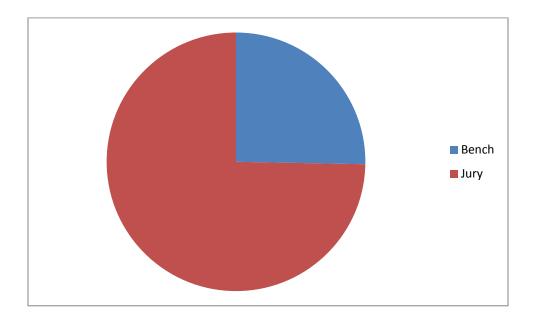
Of those 624 trials, 466, or 74.7%, were tried before juries, the balance before judges.

The mixed decisions (which we count as separate judgments) often involved two parties suing each other for patent infringement; if one party won the whole case, that was a win for that patentee but also a loss for the other patentee. Mixed decisions also frequently involved cases in which multiple patents were asserted by a single party; if one patent was held invalid or not infringed while a claim in a second patent was held valid and infringed, we deemed it a mixed decision.

¹⁰ Throughout this paper we report wins for "Claimants (C)" – patentees – and "Claim Defendants (CD)" – accused infringers. We do this rather than study plaintiff and defendant wins because a significant fraction of patent suits are declaratory judgment actions in which the plaintiff is the accused infringer.

Figure 1





This number may seem surprisingly low; patentees today virtually always request juries.¹¹ But there are certain circumstances in which juries are not an option, including lawsuits against the government and lawsuits under the Hatch-Waxman Act against generic drug manufacturers seeking only injunctive relief. And indeed as we will see, districts that get more generic pharmaceutical patent cases tend to have more bench trials.

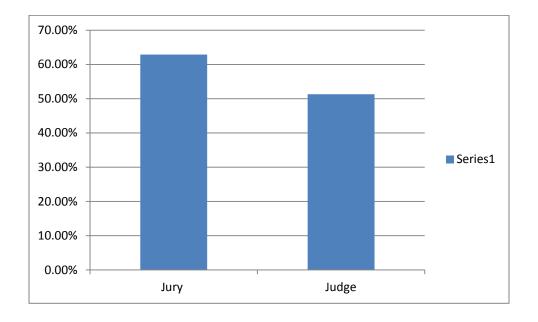
Our findings strongly support the received wisdom that compared to judges, juries favor patentees.¹² Of the 158 bench trials, 51.3% ruled for the patentee, 42.4% for the accused

¹¹ That is a very recent development; as recently as 40 years ago less than 5% of patent cases were tried to juries. *See* John F. Duffy & Mark A. Lemley, *Why Do Juries Decide If Patents Are Valid?* (working paper 2013).

¹² Prior evidence to the same effect includes John R. Allison & Mark A. Lemley, *Empirical Evidence on the Validity of Litigated Patents*, 26 **AIPLA Q.J.** 185 (1998) (finding that patentees win on validity 55% of the time in bench trials and 67% before juries); Kimberly A. Moore, *Judges, Juries, and Patent Cases – An Empirical Peek Inside the Black Box*, 99 **Mich. L. Rev.** 365 (2000) (finding a similar disparity).

infringer, and 6.3% were split decisions. By contrast, of the 466 jury trials, 62.9% ruled for the patentee, 29.6% for the accused infringer, and 7.5% were split decisions. We report the data in Table 1.

Figure 2



Win Rate By Decisionmaker

The results are robust in the multivariate regressions. We report the various regressions in Appendix A.¹³ Jury trials are strongly correlated with rulings for patentees (coefficient of - .249, p=0.005).¹⁴ When we exclude mixed verdicts from the results (which we think is the

¹³ We used linear probability models in the regressions.

¹⁴ In our regression analysis, patentee wins are coded as a 1 and accused infringer wins as a 3 (mixed outcomes are coded as a 2). So a negative coefficient in the regression reflects a greater likelihood of patentee win, but in assessing magnitude of the effects, bear in mind that the range is from 1 to 3, not 0 to 1.

preferable approach, since mixed verdicts are rulings both for and against patentees) the findings are even stronger (coefficient of -.269, p=0.007).¹⁵

One possible explanation is that there is something different about bench trials. There are two types of cases where a party cannot request a bench trial: generic pharmaceutical patent disputes in which only an injunction, not damages, are at issue, and proceedings against the U.S. in the Court of Claims.¹⁶ If patentees are systematically less likely to win those types of cases, the judge-jury disparity may be an artifact of these limitations. To test this, we re-ran our numbers excluding the pharmaceutical and ANDA cases. Not only did the disparity not disappear, it grew stronger: the coefficient grew to -.429 (p=0.000).

Patentees, then, are right to want jury trials.

Nor does it appear to matter how sophisticated the jury pool is about patents. To get at this question, we constructed a measure of patent-intensity by district based on the number of patents issued per capita to residents of that district.¹⁷ The most patent-intensive district is the Northern District of California, with 5.5 patents in force per thousand residents. The least patent-intensive is the District of Hawaii, with 0.3 patents per thousand residents. Among the five most popular litigation districts, the Northern District of California ranked first, with 5.5

¹⁵ We did not include other variables of possible interest in the multivariate regressions, such as technology category and the characteristics of individual patents, because the small number of trials would have prevented the results from having any possible predictive power.

¹⁶ 28 U.S.C. §1498.

¹⁷ We constructed this measure based on raw data collected by Michael Meehan. See Michael Meehan, Untapped Inventive Potential in U.S. Communities, available at http://works.bepress.com/michael_meehan/2/. Meehan collected data on patents by Metropolitan Statistical Measurement Area. We then converted MSMA data into judicial district, which in some cases required estimation of residents on each side of a district boundary, and determined the population of each district.

patents per thousand; the District of Massachusetts ranked 9th, with 2.3 patents per thousand; the District of Delaware ranked 17th, with 1.9 patents per thousand; the Central District of California ranked 43rd, with 1.2 patents per thousand; and the Eastern District of Texas ranked 73rd, with 0.6 patents per thousand.¹⁸ Nonetheless, the patent sophistication of the jury pool had no statistically significant effect on trial outcomes.¹⁹

II. Trial Times

On average, patent trials take approximately eight court days, though the actual trial times range from a low of one day to a high of 44 days.²⁰ But how long a trial takes is heavily dependent on whether or not the trial involves a jury. Jury trials took an average of 8.60 days (and a median of 8 days), compared with an average of 5.74 days and a median of 5 days for bench trials.²¹ We present the data in Table 1.

Contrary to the conventional wisdom, however, the length of trial had no effect on outcome. Indeed, the trial times were virtually identical for patentee wins and accused

¹⁸ We report the full results in Appendix C. The fact that we have district fixed effects for five of the 60 districts that had at least one patent trial in our data set creates some risk of multicollinearity with district-based patents-per-thousand measure.

¹⁹ This may cast some doubt on the efficacy of proposals to allow district jury specialization. *See, e.g.,* Jeanne C. Fromer, *Patentography*, 85 **N.Y.U. L. Rev.** 1444 (2010).

²⁰ Trial events result in daily docket entries, so we can use Lex Machina to measure the number of days actually in trial, skipping days in which the court is dark or hearing other matters. We did not attempt to determine the number of hours of trial in any given day.

²¹ One possible explanation for this is that the docket reports for jury trials include the time the jury spends in deliberation, while judges do not devote trial days to deliberation, instead writing their opinions at some later time. We don't have a simple way to back out jury deliberation time, but we are skeptical that juries deliberate for an average of three days after a five-day presentation of evidence. So jury deliberation time is at most a partial explanation for this disparity.

infringer wins. Patentee wins took 7.76 days on average (and a median of 7 days), while accused infringer wins took 7.74 days (and a median of 7 days). Needless to say, this difference was not statistically significant even when no other complicating factors were included. It is not merely a failure to reject the null hypothesis out of statistical caution; our results suggest that there is simply no real relationship between trial time and outcome.

Split decisions took longer: 9.42 days on average, and a median of 9 days. This is not too surprising, since those cases are by definition likely to be more complicated, as they tend to involve multiple patents or patent owners on both sides.

While as noted above bench trials are significantly shorter than jury trials, both bench and jury trials are approximately the same length in patentee wins and accused infringer wins. Patentee wins in bench trials took slightly longer than accused infringer wins (mean of 5.74 days compared to 5.40 days for accused infringer wins), and patentee wins in jury trials took slightly less time (8.32 days compared to 8.87 days for accused infringer wins), but the differences are not statistically significant even when only trial length and bench v. jury are included.²² We present the results in Table 1.

Trial length can also be affected by the characteristics of particular trials. Trials with multiple patents, multiple defendants, or both can render a trial more complex and hence

²² To avoid possible collinearity between the jury trial and trial length variables, we ran these numbers including both sets and specific to jury trials and found no significant difference in the results.

longer. Accordingly, we included those in our multivariate regression, but they didn't change the significance of any of the trial outcome results.²³

III. Choice of Forum

A significant number of the 624 patent trials were held in just five districts: the Eastern District of Texas (77 trials), the District of Delaware (110 trials), the Northern District of California (33 trials), the Central District of California (25 trials), and the District of Massachusetts (28 trials). Together, those districts held more than 40% of the patent trials in the last ten years.

Different districts vary in the length of their trials, the percentage of bench trials, and in the outcomes of those trials. In the Eastern District of Texas, the vast majority of trials are before juries (72 out of 77 trials). Both bench and jury trials took well less time than average: 6.18 days for jury trials and 3.6 days for bench trials. Patentees won 1 of the 5 bench trials in the Eastern District of Texas, accused infringers won 3, and one case was a split decision. But because of the small number of cases these percentages don't seem particularly meaningful. Patentees won 70.8% of jury trials, accused infringers won 25%, and 4.2% were split decisions. We report the results in Table 2.

²³ We ran the regressions using actual trial length. We also ran the regressions using quartiles to control for heteroskedasticity in trial lengths, but the results were similar.

Variable	Total Number of Variable Type	Total Number	% of Total Number	Mean Time	Median Time	Standard Deviation
Total Bench	5	77	6.5%	3.60	3	1.62
Total Jury	72	77	93.5%	6.18	6	2.12
Bench for C Win	1	5	20.0%	3.00	3	0.00
Bench For CD Win	3	5	60.0%	3.00	2	1.41
Bench For C;CD Win	1	5	20.0%	6.00	6	0.00
Jury Trial for C Win	51	72	70.8%	6.14	6	1.78
Jury Trial for CD Win	18	72	25.0%	6.11	5	2.86
Jury Trial for C;CD Win	3	72	4.2%	7.33	7	2.05

Table 2: Trial Outcomes in the Eastern District of Texas

In the Northern District of California, 27 out of 33 trials were before juries. The bench trials were somewhat shorter than average, at 5.5 days, but jury trials in the Northern District of California took much longer: 12.7 days on average. Patentees won 2 of 6 bench trials in the Northern District of California, accused infringers won 3, and one case was a split decision. Again, because of the small number of cases these bench trial percentages don't seem particularly meaningful. Juries were far less favorable to patentees than in the Eastern District of Texas. In the Northern District of California, patentees won 44.4% of jury trials, accused infringers won 48.1%, and 7.4% were split decisions. We report the results in Table 3.

	Total Number of	Total	% of Total	Mean	Median	Standard
Variable	Variable Type	Number	Number	Time	Time	Deviation
Total Bench	6	33	18.2%	5.50	4.5	3.15
Total Jury	27	33	81.8%	12.67	12	4.28
Bench for C						
Win	2	6	33.3%	7.00	7	5.00
Bench For CD						
Win	3	6	50.0%	4.33	4	0.47
Bench For						
C;CD Win	1	6	16.7%	6.00	6	0.00
Jury Trial for						
C Win	12	27	44.4%	13.75	12	5.46
Jury Trial for						
CD Win	13	27	48.1%	11.46	11	2.65
Jury Trial for						
C;CD Win	2	27	7.4%	14.00	14	2.00

Table 3: Trial Outcomes in the Northern District of California

In the Central District of California, 21 out of 25 trials were before juries. The bench trials were substantially shorter than average, at 3.75 days, and jury trials in the Central District of California took slightly less than average: a mean of 8.24 days. Patentees won 2 of 4 bench trials in the Northern District of California and accused infringers won 2. These numbers are too small to draw any meaningful conclusions about bench trials. Juries were generally favorable to patentees, though not quite as favorable as in the Eastern District of Texas. In the Central District of California, patentees won 66.7% of jury trials, accused infringers won 28.6%, and 4.8% were split decisions. We report the results in Table 4.

	Total Number of	Total	% of Total	Mean	Median	Standard
Variable	Variable Type	Number	Number	Time	Time	Deviation
Total Bench	4	25	16.0%	3.75	4	1.30
Total Jury	21	25	84.0%	8.24	7	5.00
Bench for C						
Win	2	4	50.0%	2.50	2.5	0.50
Bench For CD						
Win	2	4	50.0%	5.00	5	0.00
Bench For						
C;CD Win	0	4	0.0%	0.00	0	0.00
Jury Trial for						
C Win	14	21	66.7%	7.00	6.5	3.14
Jury Trial for						
CD Win	6	21	28.6%	8.50	7.5	4.43
Jury Trial for						
C;CD Win	1	21	4.8%	24.00	24	0.00

In the District of Delaware, 70 out of 110 trials (or 63.6%) were before juries, a far lower percentage than in the other districts we investigated. This is likely an artifact of the larger percentage of generic pharmaceutical patent cases in Delaware; as noted above, those cases are not tried to juries. The bench trials in Delaware were somewhat shorter than average, at 5.08 days, as were jury trials, at 7.96 days on average. Patentees won 57.5% of bench trials in the District of Delaware, accused infringers won 37.5%, and 5% were split decisions. Juries were somewhat less favorable to patentees than in the Eastern District of Texas. In Delaware, patentees won 55.7% of jury trials, accused infringers won 22.9%, and 21.4% were split decisions. Delaware was the only district of the five we broke out in which judges ruled for patentees at a higher rate than juries, though the large number of split jury decisions may be a

partial explanation. We report the results in Table 5.

	Total Number of	Total	% of Total	Mean	Median	Standard
Variable	Variable Type	Number	Number	Time	Time	Deviation
Total Bench	40	110	36.4%	5.08	5	1.84
Total Jury	70	110	63.6%	7.96	8	2.86
Bench for C						
Win	23	40	57.5%	5.09	5	1.69
Bench For CD						
Win	15	40	37.5%	4.60	5	1.58
Bench For						
C;CD Win	2	40	5.0%	8.50	8.5	1.50
Jury Trial for						
C Win	39	70	55.7%	7.82	8	2.85
Jury Trial for						
CD Win	16	70	22.9%	8.19	8	3.11
Jury Trial for						
C;CD Win	15	70	21.4%	8.07	8	2.57

Table 5: Trial Outcomes in the District of Delaware

In the District of Massachusetts, 23 out of 28 trials were before juries. Both the bench and jury trials were substantially longer than average, at a mean of 7.80 days and 11.04 days, respectively. Patentees won 1 of 5 bench trials in the District of Massachusetts and accused infringers won 3; the final case was a split decision. But because of the small number of cases these percentages aren't meaningful. Juries were slightly less favorable to patentees than in the country as a whole. In the District of Massachusetts, patentees won 56.5% of jury trials, accused infringers won 39.1%, and 4.3% were split decisions. We report the results in Table 6.

	Total Number of	Total	% of Total	Mean	Median	Standard
Variable	Variable Type	Number	Number	Time	Time	Deviation
Total Bench	5	28	17.9%	7.80	5	5.64
Total Jury	23	28	82.1%	11.04	9	8.38
Bench for C						
Win	1	5	20.0%	3.00	3	0.00
Bench For CD						
Win	3	5	60.0%	7.67	5	6.02
Bench For						
C;CD Win	1	5	20.0%	13.00	13	0.00
Jury Trial for						
C Win	13	23	56.5%	12.85	9	9.92
Jury Trial for						
CD Win	9	23	39.1%	8.44	6	5.08
Jury Trial for						
C;CD Win	1	23	4.3%	11.00	11	0.00

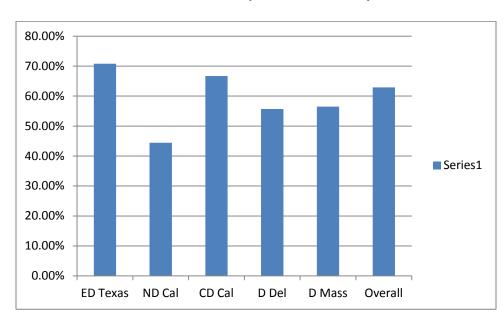
Table 6: Trial Outcomes in the District of Massachusetts

The results show some substantial differences in trial outcomes by district, though the magnitude of those differences is smaller than some may have expected. In particular, the conventional wisdom that juries in the Eastern District of Texas always vote for patentees is not true. While juries in that district do find for patentees more often than average (70.8% compared to 62.9% overall), the difference is not huge, and as the multiple regression analysis in the Appendix shows, it is not statistically significant once we consider other factors (such as the number of patents, the number of defendants, whether a judge or a jury decided the issue, whether there were non-patent issues in the case, and whether the case resulted in a split decision. Similarly, while the Northern District of California seems to have a much lower jury win rate (44.4%, compared to 62.9% overall), the effects are not statistically significant in the

overall regression analysis, in part because of the small number of jury trials in the Northern

District of California.

Figure 3



Jury Trial Win Rate By District

While the evidence shows some differences that are in line with conventional wisdom patentees win more often before juries in the Eastern District of Texas and the District of Delaware than in the Northern District of California--it does not support the conclusion that the district in which a case is litigated significantly affects the likelihood that the jury will find for the patentee.²⁴

IV. Predicting the Length of Patent Trials

So far we have been trying (and failing) to predict the outcome of patent trials based on the length of those trials or their location. In this section, we reverse the process, and look at

²⁴ For discussion of technology-specific clustering of cases and how the jury pool in particular districts might affect it, see Jeanne C. Fromer, *Patentography*, 85 **N.Y.U. L. Rev.** 1444 (2010).

the determinants of trial time. Here, by contrast, we find abundant and strongly significant evidence of relationships. The fact that a trial is before a jury is a significant predictor of a long trial; all other things being equal, trying a case before a jury adds 3.04 days to the length of the trial (p<0.001). The fact that a case is more complex also predicts a longer trial; adding an additional patent to the case adds 0.83 days holding other variables constant (p<0.001), while adding an additional defendant to the case adds 0.38 days, all other things equal (p=0.012). Adding non-patent issues to the case, by contrast, doesn't have a statistically significant effect. We report the results in Appendix B.

This evidence suggests it is likely that trial times will get shorter now that the America Invents Act of 2011 eliminated joinder of multiple defendants in a single case,²⁵ since the number of defendants per case is likely to drop significantly, simplifying each trial.²⁶

The district of choice also affects the length of trials. Conducting a trial in the Eastern District of Texas, the Central District of California, or the District of Delaware is significantly correlated with a shorter trial (p<0.001, p<0.001, and p=0.013, respectively).²⁷ Conducting a trial in the Northern District of California is not significantly correlated with a longer trial (p=0.437). The Northern District of California and the District of Massachusetts do, however, take longer on average than districts other than the five we broke out for analysis. Those

²⁵ 35 U.S.C. § 299.

²⁶ See, e.g., James Pistorino & Susan Crane, 2011 Trends in Patent Case Filings: Eastern District of Texas Continues to Lead Until America Invents Act Is Signed (working paper 2012) (documenting a significant drop in the number of defendants per case since the AIA took effect in September 2011).

²⁷ Differentials were quite substantial (trials took 4.82 fewer days in the Eastern District of Texas holding other variables constant , 3.26 fewer days in the District of Delaware, and 2.84 fewer days in the Central District of California than in the District of Massachusetts).

remaining districts were associated with trials that were 2.07 days shorter, all else equal (p=0.013).

Curiously, the number of patents per thousand people in the jury pool was significantly correlated with a longer trial (p<0.001).²⁸ It is not clear what explains this result; it might be a function of longer trial times in the Northern District of California and the District of Massachusetts, both of which rank high on the patent-intensity list. Or it could be that an unobserved variable explains both results. Perhaps the sorts of trials conducted in those higher-tech districts tend to involve more complex technology – and hence to be longer – than trials in other districts. To test the strength of this relationship, we ran a version of the regression that omitted the Northern District of California and the Eastern District of Texas. The significance of the patents-per-thousand measure disappeared (p=0.363), while the other predictors remained significant. That suggests that the effect is an artifact of something particular about one or both of those districts.

V. Conclusion

Short trials don't benefit patentees, as the conventional wisdom suggests. Indeed, trial length seems to have no effect on outcomes at all. There are some predictors of success – juries rule for patentees more than judges, and juries in some districts appear to be more likely to find for patentees than are others. But the interdistrict results are not statistically significant, and in any event are much more modest than most people suspect. We think this is

²⁸ The significance of the effect disappeared when we added district dummy variables, however, as did the significance of the individual district effects, though that is likely the result of colinearity.

an encouraging sign; some of the anxiety around Eastern District of Texas and Delaware juries seems unwarranted.

Predictors of trial length may be significant in light of the absence of any evidence that trial length affects outcomes. If the length of a trial doesn't skew outcomes, one might reasonably argue that long trials are a waste of party and judicial resources. Far from a rush to judgment, a quick patent trial may produce the same outcome more quickly and cheaply.

Appendix A

Regressions wit					e data s	et using	two out
<pre>and splitting C Jury trial = 1;</pre>			C=1 CD=	3			
Descriptive sta		L = 0					
. summarize							
Variable	Obs	Mean	std D	ev.	Min	Max	
+-							
caseid	669	7.18e+07	2.91e+0	8	11 2	.00e+09	
districtec~r	0						
district c~	669	4.366218 .1210762	2.00272	1	1	6	
edtx	669	.1210762	.326459	9	0	1	
ddel	669	.1898356	.392464	4	0	1	
+-					·		
cdcal		.038864			0	1	
ndcal	669	.0538117	.225814		0	1	
dmass dother trial_len~h	669	.044843			0	1	
dother	669	.5515695	.497705	6	0	1	
trial_len~n +-	669	7.977578	4.650//	8	1	44	
+- trial len~		2.657698	1 10565	 6	1	4	
jury trial	669	7488789	433982	5	0	1	
natents~1	669	1 982063	1 61569	1	1	14	
patents~	669	2.168909	1.29711	4	1	4	
jury_trial patents~l patents~_ patents_1	669	4663677	499240	9	0	1	
paconco +					·		
plaintif~	669	1.313901	.685697	2	1	8	
defenda~l	669	1.606876 1.859492	1.07753	9	1	11	
defenda~_	669	1.859492	1 18674	8	1	4	
defenda~1	669	.3587444 1.747384	.479990	9	0	1	
prevailing~	669	1.747384	.968290	6	1	3	
+- additional~	669	.0523169	.222831	9 9	0	1	
. regress preva	iling_party_	_in_trial tr	ial_leng	th			
Source	SS	df	MS		Number	of obs =	669
Modol	.067418808	1 067	//18808		F(1, Prob)	667) =	0.07
	626.240503				R-squar	F = ed =	0.7888
+-						quared =	
Total	626.307922	668 .93	8758671		-	E =	
prevailing~	Coef.	Std. Err.	t	 P> t	 95۶]	Conf. Int	cerval]
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+- trial_len~h		.0080611	0.27	0.789		681 .0	erva 01798 .876

Regressions with outcome as dependent variable from the data set using two outcomes and splitting C/CD into both C AND CD: C=1 CD= 3^{29}

. regress prevailing_party_in_trial trial_length jury_trial

²⁹ We ran separate regressions treating split decisions as a half-decision for each party, as a full decision for each party, and excluding split decisions entirely. The results were not meaningfully different. We have chosen to report here the regression that treats split decisions as both patentee and accused infringer wins ; the number of observations is larger than 624 in this regression because each split decision was processed twice

[Lemley et al., *Rush to Judgment* August 17, 2012

Source	SS	df	MS		Number of obs =	
	7.34523299 618.962689				F(2, 666) = Prob > F = R-squared =	= 0.0197 = 0.0117
Total	626.307922	668 .9	3758671		Adj R-squared = Root MSE =	
prevailing~	Coef.	Std. Err.	 t	 P> t	[95% Conf. Ir	nterval]
	249219		-2.80			0245706 0743496 2.042877
. regress prev	vailing_party_	_in_trial t	rial_leng	th jury_	trialpatents_	_in_trial
Source	SS	df	MS		Number of obs = F(3, 665) =	
	8.32555858 617.982364				Prob > F = R-squared = Adj R-squared =	= 0.0133
Total	626.307922	668 .9	3758671		Root MSE =	
prevailing~	Coef.	Std. Err.		P> t	[95% Conf. Ir	nterval]
jury_trial patents~l	2404299	.0894651 .0240089	-2.69 1.03	0.007 0.305	0111448 416098 0224831 1.644318	0647618 0718018
ddel cdcal	s dotherpla	aintiffs_in	_trial	_	trialpatents_ ts_in_trial addi Number of obs =	tional_issues.
	14.5490892 611.758833				F(11, 657) = Prob > F = R-squared =	= 0.1588
Total	626.307922	668.9	3758671		Adj R-squared =	
prevailing~					Root MSE =	• .96496
	Coef.	Std. Err.	 t	 P> t	ROOT MSE = [95% Conf. Ir	
trial_len~h	0003208	.0091685	-0.03	0.972	[95% Conf. Ir 0183239	nterval] 0176823
jury_trial	0003208 217106	.0091685 .0924617	-0.03 -2.35	0.972 0.019	[95% Conf. Ir 0183239 398662	nterval] 0176823 03555
jury_trial patents~l	0003208 217106 .0274261	.0091685 .0924617 .0244632	-0.03 -2.35 1.12	0.972 0.019 0.263	[95% Conf. Ir 0183239 398662 0206095	nterval] 0176823 03555 0754617
jury_trial patents~l dtx	0003208 217106 .0274261 0589709	.0091685 .0924617 .0244632 .2191022	-0.03 -2.35 1.12 -0.27	0.972 0.019 0.263 0.788	[95% Conf. Ir 0183239 398662 0206095 4891958	0176823 03555 0754617 3712541
jury_trial patents~l edtx ddel	0003208 217106 .0274261 0589709 0023012	.0091685 .0924617 .0244632	-0.03 -2.35 1.12	0.972 0.019 0.263	[95% Conf. Ir 0183239 398662 0206095 4891958	nterval] 0176823 03555 0754617
jury_trial patents~l edtx ddel	0003208 217106 .0274261 0589709	.0091685 .0924617 .0244632 .2191022	-0.03 -2.35 1.12 -0.27	0.972 0.019 0.263 0.788	[95% Conf. Ir 0183239 398662 0206095 4891958 41486	0176823 03555 0754617 3712541
jury_trial patents~l edtx ddel cdcal ndcal	0003208 217106 .0274261 0589709 0023012 (dropped)	.0091685 .0924617 .0244632 .2191022 .2101053 .2506972	-0.03 -2.35 1.12 -0.27 -0.01 1.42	0.972 0.019 0.263 0.788 0.991 0.157	[95% Conf. Ir 0183239 398662 0206095 4891958 41486 13707	nterval] 0176823 03555 0754617 3712541 4102575
jury_trial patents~l ddel ddel ddel ddeal dmass	0003208 217106 .0274261 0589709 0023012 (dropped) .3551943 .2102005	.0091685 .0924617 .0244632 .2191022 .2101053 .2506972 .2606164	-0.03 -2.35 1.12 -0.27 -0.01 1.42 0.81	0.972 0.019 0.263 0.788 0.991 0.157 0.420	[95% Conf. Ir 0183239 398662 0206095 4891958 41486 13707 3015409	nterval] 0176823 03555 0754617 3712541 4102575 8474587 7219419
jury_trial patents~l ddel ddel ddel ddeal ddeal dmass dother	0003208 217106 .0274261 0589709 0023012 (dropped) .3551943 .2102005 .0032854	.0091685 .0924617 .0244632 .2191022 .2101053 .2506972 .2606164 .1966267	-0.03 -2.35 1.12 -0.27 -0.01 1.42 0.81 0.02	0.972 0.019 0.263 0.788 0.991 0.157 0.420 0.987	[95% Conf. Ir 0183239 398662 0206095 4891958 41486 13707 3015409 3828072	0176823 03555 0754617 3712541 4102575 8474587 7219419 3893779
jury_trial patents~l ddel ddel ddel ddeal ddeal dmass dother plaintif~	0003208 217106 .0274261 0589709 0023012 (dropped) .3551943 .2102005 .0032854 .053418	.0091685 .0924617 .0244632 .2191022 .2101053 .2506972 .2606164 .1966267 .0558458	-0.03 -2.35 1.12 -0.27 -0.01 1.42 0.81 0.02 0.96	0.972 0.019 0.263 0.788 0.991 0.157 0.420 0.987 0.339	[95% Conf. Ir 0183239 398662 0206095 4891958 41486 13707 3015409 3828072 0562398	1terval] 0176823 03555 0754617 3712541 4102575 8474587 7219419 3893779 1630758
jury_trial patents~1 ddel ddel ddeal ddeal dmass dother plaintif~ defenda~1	0003208 217106 .0274261 0589709 0023012 (dropped) .3551943 .2102005 .0032854 .053418 0084891	.0091685 .0924617 .0244632 .2191022 .2101053 .2506972 .2606164 .1966267 .0558458 .035005	-0.03 -2.35 1.12 -0.27 -0.01 1.42 0.81 0.02 0.96 -0.24	0.972 0.019 0.263 0.788 0.991 0.157 0.420 0.987 0.339 0.808	[95% Conf. Ir 0183239 398662 0206095 4891958 41486 13707 3015409 3828072 0562398 0772242	<pre>hterval] 0176823 03555 0754617 3712541 4102575 8474587 7219419 3893779 1630758 .060246</pre>
jury_trial patents~l ddel ddel ddel ddeal ddeal dmass dother plaintif~	0003208 217106 .0274261 0589709 0023012 (dropped) .3551943 .2102005 .0032854 .053418	.0091685 .0924617 .0244632 .2191022 .2101053 .2506972 .2606164 .1966267 .0558458	-0.03 -2.35 1.12 -0.27 -0.01 1.42 0.81 0.02 0.96	0.972 0.019 0.263 0.788 0.991 0.157 0.420 0.987 0.339	[95% Conf. Ir 0183239 398662 0206095 4891958 41486 13707 3015409 3828072 0562398 0772242	1terval] 0176823 03555 0754617 3712541 4102575 8474587 7219419 3893779 1630758

[Lemley et al., Rush to Judgment August 17, 2012

. regress prevailing_party_in_trial jury_trial edtx ddel cdcal ndcal dmass dother

__plaintif
> fs_in_trial additional_issues trial_length_quartile_ __patents_quartile_
__defendants_quart

> ile_

Source	SS	df	MS		Number of ob F(11, 657	s = 669 () = 1.45
Model Residual	14.8323317 611.475591		1.34839379 .930708662		Prob > F R-squared Adj R-square	= 0.1466 = 0.0237
Total	626.307922	668	.93758671		Root MSE	= .96473
prevailing~	Coef.	Std. Er	r. t	P> t	[95% Conf.	Interval]
jury_trial edtx ddel cdcal	2370499 0591904 0086152 (dropped)	.093883 .218435 .210120	3 -0.27	0.012 0.786 0.967	4213977 4881059 4212032	0527022 .369725 .4039727
ndcal dmass dother plaintif~ additional~	.3351314 .2123572 .0005423 .0572742 .0491457	.250977 .260343 .196830 .055453 .169676	4 0.82 5 0.00 7 1.03	0.182 0.415 0.998 0.302 0.772	157683 2988482 3859504 0516138 2840273	.8279457 .7235626 .3870349 .1661621 .3823188

Regressions Omitting District Dummies But Including Patent Intensity

. regress prevailing_party_in_trial trial_length jury_trial __patents_in_trial defendants in t

> rial additional issues patents per thousand people

Source	SS	df	MS		Number of ob F(6, 662	
 Model Residual	10.7812888 615.526633				Prob > F R-squared Adj R-square	= 0.0733 = 0.0172
Total	626.307922	668	.93758671		Root MSE	= .96426
prevailing~	Coef.	Std. Er	r. t	P> t	[95% Conf.	Interval]
<pre>trial_len~h jury_trial _patents~l _defenda~l additional~ patents_pe~ _cons }</pre>	.0028521 2278377 .0275462 0069157 .0334596 .0557953 1.754362	.008902 .090223 .024105 .034878 .16808 .034771 .12300	4 -2.53 1 1.14 7 -0.20 7 0.20 1 1.60	0.749 0.012 0.254 0.843 0.842 0.109 0.000	0146276 4049963 0197855 0754019 2965883 0124796 1.512826	.0203318 0506791 .074878 .0615704 .3635074 .1240702 1.995898

. regress prevailing party in trial trial length jury trial patents in trial __plaintiffs_in_tri > al __defendants_in_trial additional_issues patents_per_thousand_people

Source	SS	df	MS		Number of ob	s = 669
Model Residual	11.6887109 614.619211	71.			F(7, 661) Prob > F R-squared Adj R-squared	= 0.0853 = 0.0187
Total	626.307922	668 .	93758671		Root MSE	
prevailing~	Coef.	Std. Err.	t	P> t	[95% Conf.	Interval]
	.0020016	.0089438 .0910093 .0241586 .0554623 .0349324 .1682102 .0348223 .1426448	-2.37 1.07 0.99 -0.25 0.24 1.66	0.823 0.018 0.283 0.324 0.801 0.813 0.098 0.000	01556 3947625 0214701 0541136 0774085 2905507 0107269 1.402927	.0195633 037358 .0734034 .1636934 .059775 .3700308 .1260244 1.96311

. regress prevailing_party_in_trial jury_trial __plaintiffs_in_trial additional_issues patents p

> er_thousand_people trial_length_quartile___patents_quartile_ defendants quartile

Source	SS	df	MS	Number of obs =	669
+-				F(7, 661) =	1.83
Model	11.935029	7	1.70500415	Prob > F = 0	.0780
Residual	614.372893	661	.929459748	R-squared = 0	.0191
+-				Adj R-squared = 0	.0087
Total	626.307922	668	.93758671	Root MSE = .	96408

prevailing~	Coef.	Std. Err.	t	P> t	[95% Conf.	Interval]
jury trial	2317575	.0924892	-2.51	0.012	4133656	0501495
plaintif~	.0592926	.0550335	1.08	0.282	0487689	.167354
additional~	.0410023	.1688328	0.24	0.808	290511	.3725156
patents pe~	.055087	.0347801	1.58	0.114	0132058	.1233797
trial len~	.0168431	.0378376	0.45	0.656	0574533	.0911395
patents~	.0302969	.0299484	1.01	0.312	0285085	.0891024
defenda~_	.0118745	.0316896	0.37	0.708	0503498	.0740989
cons	1.613896	.1542296	10.46	0.000	1.311057	1.916735

Appendix B

Regressions with trial length as dependent variable

. regress trial_length jury_trial __patents_in_trial __defendants_in_trial

Source	I	SS	df	MS	Number of obs	5 =	624
	+-				F(3, 620)) =	36.63
Model	I	2049.51076	3	683.170252	Prob > F	=	0.0000
Residual	I	11563.4876	620	18.6507865	R-squared	=	0.1506
	+-				Adj R-squared	d =	0.1464
Total	I	13612.9984	623	21.8507197	Root MSE	=	4.3187

trial_len~h					[95% Conf.	Interval]
	2.91791	.398071	7.33	0.000	2.136179	3.699641
patents~l	.7974824	.1130367	7.06	0.000	.5755012	1.019464
defenda~l	.4136399	.1586138	2.61	0.009	.1021546	.7251252
_cons	3.527112	.4813596	7.33	0.000	2.581819	4.472404

. regress trial_length jury_trial __patents_in_trial __defendants_in_trial edtx ddel cdcal nd

> cal dmass dother additional issues

Source	SS	df	MS	Number of obs	=	624
+-				F(9, 614)	=	20.50
Model	3145.48955	9 349.4	198838	Prob > F	=	0.0000
Residual	10467.5089 6	14 17.	.04806	R-squared	=	0.2311
+-				Adj R-squared	=	0.2198

		[Lemley	v et al., Ru	sh to Jud	gment Augus	st 17, 2012
Total	13612.9984	623 21.	8507197		Root MSE	= 4.1289
trial_len~h						
·					2.278558	
patents~l	.8294364	.1087359	7.63	0.000	.615897	1.042976
defenda~l	.3818595	.1520433	2.51	0.012	.0832715	.6804474
edtx	-4.8225	.9132535	-5.28	0.000	-6.615979	-3.029021
ddel	-3.258465	.877902	-3.71	0.000	-4.98252	-1.53441
cdcal	-2.840284	1.140161	-2.49	0.013	-5.079373	601195
ndcal	.8272674	1.06259	0.78	0.437	-1.259484	2.914019
dmass	(dropped)					
dother	-2.029112	.8143683	-2.49	0.013	-3.628398	4298274
additional~	.5970442	.7443868	0.80	0.423	8648086	2.058897
_cons	5.774669	.8967826	6.44	0.000	4.013536	7.535802

. regress trial_length_quartile_jury_trial __patents_in_trial __defendants_in_trial edtx ddel cdca

> l ndcal dmass dother additional_issues

Source	SS	df	MS	Number of obs =	624
+-				F(9, 614) =	18.00
Model	159.729991	9	17.7477768	Prob > F =	0.0000
Residual	605.255586	614	.985758283	R-squared =	0.2088
+-				Adj R-squared =	0.1972
Total	764.985577	623	1.22790622	Root MSE =	.99285

		[Lemley	et al., Ru	sh to Jud	gment Augus	it 17, 2012
trial_len~_	Coef.					Interval]
jury_trial				0.000		1.081048
patents~l	.1507489	.0261469	5.77	0.000	.0994007	.2020972
defenda~l	.0866565	.0365607	2.37	0.018	.0148572	.1584558
edtx	6660263	.2196034	-3.03	0.003	-1.097291	2347615
ddel	2339763	.2111027	-1.11	0.268	6485471	.1805946
cdcal	4033284	.2741663	-1.47	0.142	9417457	.135089
ndcal	.488929	.2555133	1.91	0.056	0128569	.990715
dmass	(dropped)					
dother	1099155	.1958252	-0.56	0.575	4944839	.2746529
additional~	.0850569	.1789973	0.48	0.635	2664643	.436578
_cons	1.697758	.2156428	7.87	0.000	1.274271	2.121245

Repeats of the regressions in Appendix B, but with "patents per thousand people" added as an independent variable

. regress trial_length jury_trial __patents_in_trial __defendants_in_trial
patents_per_thousand_pe
> ople

Source	SS	df	MS		Number of ob	
Model Residual	2624.3169 10988.6815		656.079226 17.7523126		F(4, 619 Prob > F R-squared Adj R-squared	= 0.0000 = 0.1928
Total	13612.9984	623	21.8507197		Root MSE	= 4.2133
trial_len~h	Coef.	Std. Er	r. t	P> t	[95% Conf.	Interval]
jury_trial patents~l defenda~l patents_pe~ cons	3.00058 .8047 .4047019 .8746775 1.976835	.388636 .110287 .154754 .153714 .54292	77.3012.6255.69	0.000 0.000 0.009 0.000 0.000	2.237375 .5881167 .1007952 .5728125 .9106321	3.763785 1.021283 .7086085 1.176543 3.043038

. regress trial_length jury_trial __patents_in_trial __defendants_in_trial patents_per_thousand_

> people edtx ddel cdcal ndcal dmass dother additional_issues

Source	SS	df	MS		Number of ob F(10, 613	
Model Residual	3158.57381 10454.4246		5.857381 .0545262		Prob > F R-squared Adj R-square	$= 0.0000 \\ = 0.2320$
Total	13612.9984	623 21.	.8507197		Root MSE	= 4.1297
trial_len~h	Coef.	Std. Err.	t	P> t	[95% Conf.	Interval]
<pre>jury_trial _patents~1 _defenda~1 patents_pe~ edtx ddel cdcal ndcal dmass dother additional~ </pre>	3.050881 .8356528 .3878576 .3121257 -1.803608 6617432 (dropped) 2.298423 2.475019 .6969727	.3890048 .1089879 .1522262 .3563483 .9747163 .964104 1.910281 1.214234 .8671899 7445646	7.84 7.67 2.55 0.88 -1.85 -0.69 1.20 2.04 0.80 0.79	0.000 0.000 0.011 0.381 0.065 0.493 0.229 0.042 0.042 0.422	2.286937 .6216179 .0889094 3876858 -3.717796 -2.555091 -1.453065 .0904562 -1.006051 - 8716294	3.814824 1.049688 .6868057 1.011937 .1105801 1.231604 6.049912 4.859581 2.399996 2.052784
additional~ _cons	.5905773 2.54928	.7445646 1.036234	0.79 2.46	0.428 0.014	8716294 .5142819	2.052784 4.584278

. regress trial_length_quartile_jury_trial __patents_in_trial __defendants_in_trial patents_pe

 August	т,	1

District	Total Population	Number of Patents in the 1990s	Number of Patents Cumulative (over all time)	1990s Patents per 10,000 population
CAND Totals:	7388948.00	40832.00	72490.00	55.26
NYWD Totals:	2715695.00	11345.00	23907.00	41.78
IDD Totals:	1112950.00	3694.00	4718.00	33.19
VTD Totals:	359831.00	1092.00	1760.00	30.35
MIED Totals:	6218621.00	16900.00	38882.00	27.18
CTD Totals:	3405565.00	8726.00	23779.00	25.62
MND Totals:	4474754.00	11259.00	22304.00	25.16
NYND Totals:	3155204.00	7336.00	17849.00	23.25
MAD Totals:	6575368.25	15217.75	35488.25	23.14
TXND Totals:	7735042.00	17809.00	32090.00	23.02
COD Totals:	3918709.00	8935.00	17078.00	22.80
PAED Totals:	4350439.20	9325.50	24523.30	21.44
WIED Totals:	2918923.50	5788.00	14155.50	19.83
ILND Totals:	9760932.00	19179.00	53332.00	19.65
CASD Totals:	15318152.00	29717.00	70066.00	19.40
OKND Totals:	935437.00	1813.00	7385.00	19.38
DED Totals:	1705407.50	3277.00	8650.75	19.22
WAWD Totals:	4652017.75	8866.25	17152.25	19.06
OHSD Totals:	5024564.00	9121.25	21971.25	18.15
UTD Totals:	2117076.00	3823.00	7345.00	18.06
LAMD Totals:	699220.00	1183.00	2996.00	16.92
AZD Totals:	4935585.00	8120.00	15325.00	16.45
NYSD Totals:	6718833.00	11002.00	29435.00	16.37
TXSD Totals:	6828439.00	11163.00	26640.00	16.35
OHND Totals:	5431011.67	8798.33	26731.00	16.20
INSD Totals:	3172461.00	5139.00	13209.00	16.20
NJD Totals:	20677307.30	32816.50	91224.95	15.87
INND Totals:	1668179.00	2630.00	7046.00	15.77
ORD Totals:	3206105.25	5043.75	9580.75	15.73
WIWD Totals:	1445683.50	2263.00	4503.50	15.65
NHD Totals:	894665.00	1330.00	2594.00	14.87
NYED Totals:	18309939.00	27051.00	75258.00	14.77
DCD Totals:	1201401.25	1677.25	3850.00	13.96
MIWD Totals:	2862711.00	3900.00	10342.00	13.62
IASD Totals:	1639972.00	2148.00	4837.50	13.10
MDD Totals:	4313179.50	5516.00	12981.25	12.79
IAND Totals:	786645.00	998.00	2751.00	12.69

Appendix C

	[Lemley et al.	, Rush to Judgment	August 17, 2012
LSD Totals:	5646636.00	6973.00	14213.00
LCD Totals:	1859278.80	2295.30	6369.00
CED Totals:	2750154.00	3316.00	5537.00
AWD Totals:	4009223.33	4707.67	15129.00
MD Totals:	1711849.00	1987.00	3945.00
ACD Totals:	4656014.00	5358.00	11136.00
NED Totals:	2273632.00	2616.00	6129.00
AND Totals:	4842046.00	5424.00	9766.00
AED Totals:	5070771.50	5569.50	12843.00
YWD Totals:	2310813.50	2534.25	6243.75
AMD Totals:	2785507.00	2987.00	7770.00
ID Totals:	1187247.75	1271.25	2631.75
DED Totals:	3117968.70	3186.70	7411.00
CMD Totals:	3586107.00	3635.50	7012.00
KWD Totals:	1579783.00	1574.00	4429.00
AWD Totals:	1450069.00	1403.00	3423.50
AED Totals:	1093508.00	1032.00	2424.00
CWD Totals:	1858759.00	1742.50	3870.00
LND Totals:	1288730.00	1111.00	2422.00
TD Totals:	578166.00	465.00	856.00
CD Totals:	3415545.00	2723.00	6023.00
ED Totals:	1048670.50	815.00	1842.50
YED Totals:	1014317.50	781.00	1763.00
NWD Totals:	1518855.00	1151.00	2204.00
D Totals:	1917027.00	1395.00	2609.00
LMD Totals:	8696343.00	6276.00	12817.00
AD Totals:	2424276.50	1719.00	4408.00
ID Totals:	331612.00	233.00	563.00
/SD Totals:	777237.00	537.00	1739.00
LSD Totals:	278508.00	190.00	351.00
LND Totals:	2454089.00	1576.00	4235.00
WD Totals:	2169280.50	1388.00	3397.00
ND Totals:	555587.00	346.00	700.00
DD Totals:	351678.00	216.00	519.00
ED Totals:	6268054.00	3846.00	8072.00
XED Totals:	1561689.00	888.00	2267.00
ED Totals:	1684629.00	929.00	2639.00
XD Totals:	461020.00	250.00	442.00
XWD Totals:	3386373.00	1821.00	3835.00
NMD Totals:	1823310.00	912.00	1810.00
DD Totals:	513647.00	255.00	622.00
LSD Totals:	588816.00	290.00	568.00
ED Totals:	894980.00	416.00	1028.00

	[Lemley et al., Rush to Judgment		August 17, 2012	
LAWD Totals:	1755831.00	814.00	2094.00	4.64
WVND Totals:	534023.25	246.75	654.75	4.62
ARWD Totals:	911997.00	408.50	820.50	4.48
MSSD Totals:	1477904.00	591.00	1236.00	4.00
GAMD Totals:	1399105.00	554.00	1244.00	3.96
ALMD Totals:	858602.00	339.00	675.00	3.95
GASD Totals:	1264849.00	476.00	949.00	3.76
ARED Totals:	1194892.00	442.50	998.50	3.70
OKED Totals:	281739.00	99.00	281.00	3.51
HID Totals:	1211390.00	419.00	882.00	3.46