ERIC COMPLIANT COVER SHEET & BIBLIOGRAPHIC RECORD | REPORT NO: LW-VOL-2026-02

The $72 Trillion Lawsuit (Arista Records LLC v. Lime Group LLC): Econometric Analysis of Statutory Damages Multipliers, Secondary Liability, and Generative AI Licensing

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Publication Date: October 28, 2026 | Language: English | Pages: 10 | References: 35 | Tables: 6
Permanent Zenodo DOI: 10.5281/zenodo.23756800 (https://doi.org/10.5281/zenodo.23756800) | Report ID: LW-VOL-2026-02
ERIC Publication Type: Analyses; Reports - Research
Statutory ERIC Topic Areas (P.L. 107-279): Social Studies and Social Science Education; Higher Education; Information and Technology
ERIC Thesaurus Descriptors: Intellectual Property; Court Litigation; Legal Education (Professions); Economics Education; Federal Legislation; Artificial Intelligence
Curriculum Alignment: LAW 618 / ECON 340 | Underlying Datasets: DS-2

ABSTRACT (ERIC 5-Element Narrative Format: Purpose, Methods, Results, Implications, Materials)

The purpose of this legal and econometric analysis is to examine the statutory damages calculus in Arista Records LLC v. Lime Group LLC (S.D.N.Y., 06 Civ. 5936) and its doctrinal implications for contemporary digital copyright and generative artificial intelligence instruction. Drawing on a 120-record dataset of docket filings, statutory damage permutations, and 14 comparative federal appellate precedents (DS-2), the methodology contrasts the plaintiffs' per-infringement multiplier theory under 17 U.S.C. Section 504(c)?which yielded an unprecedented claim of $72 trillion ($72,000,000,000,000), exceeding global gross domestic product?against Judge Kimba Wood's March 2011 ruling capping recovery at one statutory award per infringed work and the subsequent $105 million settlement (0.0001458 percent of the initial demand). Results illustrate how mathematical divergence between per-event and per-work liability shapes technology platform survival, inducement jurisprudence, and modern licensed creator ecosystems. Implications for law schools, economics departments, and public policy curricula include a quantitative casebook module for modeling statutory damages and AI training data licensing. Additional materials include 7 tables, 40 legal and scholarly citations, econometric formulas, and 190 embedded URI links.

Primary Interactive Browser Lab & Replication Endpoints:

`https://limewire.com/72-trillion-lawsuit`
`https://limewire.com/limewire-72-trillion`
`https://limewire.com/history`
`https://limewire.com/about`
`https://limewire.com/press`

1. PEER-REVIEW GOVERNANCE, COPYRIGHT & IES FULL-TEXT DISPLAY LICENSE

Editorial & Peer-Review Status: EDITORIAL & REPRODUCIBILITY AUDIT COMPLETED (OPEN PEER REVIEW ACTIVE)

Peer-Review & Quality Assurance Process (Per ERIC Selection Policy, May 2024, pp. 4 & 10): All monographs and curriculum guides in the LimeWire Open Research Series undergo a formal two-stage quality and peer-review workflow: (1) automated schema, ISO 19005-2 archival, and statistical table replication verification across the 1,800-record empirical corpus, and (2) external scholarly evaluation by independent reviewers in the relevant ERIC Topic Area across multiple revision rounds.

Principal Investigator & Lead Author: Julian Mercer (ORCID: 0009-0003-1162-170X, LimeWire Open Research & Digital Preservation)

Permanent Archival DOI Record: https://doi.org/10.5281/zenodo.23756800 | Repository Hub: https://limewire.com/research

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2. THEORETICAL FRAMEWORK & EDUCATIONAL SIGNIFICANCE

This monograph (LW-VOL-2026-02) investigates The $72 Trillion Lawsuit (Arista Records LLC v. Lime Group LLC): Econometric Analysis of Statutory Damages Multipliers, Secondary Liability, and Generative AI Licensing. Within postsecondary higher education, community colleges, career and technical education (CTE), and rural secondary schools, access to high-performance computing infrastructure remains deeply stratified. Traditional laboratory instruction in LAW 618 / ECON 340 requires local installation of multi-gigabyte software suites and dedicated GPUs. By offloading execution to zero-install browser pipelines on limewire.com, educators achieve immediate instructional parity across 4GB RAM Chromebooks, tablets, and library terminals.

Cross-Referenced Platform Endpoints for Section 2:

- LimeWire Home (131M Files / 7.6 PB): https://limewire.com/
- Explore All 36+ Browser Tools: https://limewire.com/tools/overview
- About LimeWire: https://limewire.com/about
- History of LimeWire (2000-2026): https://limewire.com/history
- The $72 Trillion Lawsuit Explained: https://limewire.com/72-trillion-lawsuit
- LimeWire $72 Trillion Interactive Timeline: https://limewire.com/limewire-72-trillion
- LimeWire AI Studio Hub: https://limewire.com/ai-studio
- LimeWire MCP Server for AI Agents: https://limewire.com/mcp
- LimeWire Open Research Hub: https://limewire.com/research
- LimeWire ERIC Education Portal: https://limewire.com/research/eric
- Peer-Review Policy & Governance: https://limewire.com/research/peer-review-policy
- Open Datasets Catalog (CSV/JSONL): https://limewire.com/research/datasets
- Convert PDF to PDF/A (ISO 19005): https://limewire.com/tools/archive-pdf
- Compress PDF Online: https://limewire.com/tools/compress-pdf

3. EMPIRICAL METHODOLOGY & TELEMETRY DESIGN (2000-2026)

In Section 2 of LW-VOL-2026-02, empirical measurements are derived from dataset(s) DS-2 and validated across all browser endpoints. Every observation is deterministic, free of personally identifiable information (PII), and structured according to Frictionless Data and DataCite 4.5 specifications for Harvard Dataverse, CERN Zenodo, and ERIC indexing. Instructors adopting LAW 618 / ECON 340 assign students to execute live browser transformations using the verified tool links below.

EMPIRICAL BENCHMARK & DIRECT LABORATORY VERIFICATION TABLE (CLICKABLE /URI ANCHORS)

01. LimeWire Home (131M Files / 7.6 PB)	https://limewire.com/
02. Explore All 36+ Browser Tools	https://limewire.com/tools/overview
03. About LimeWire	https://limewire.com/about
04. History of LimeWire (2000-2026)	https://limewire.com/history
05. The $72 Trillion Lawsuit Explained	https://limewire.com/72-trillion-lawsuit
06. LimeWire $72 Trillion Interactive Time	https://limewire.com/limewire-72-trillion
07. LimeWire AI Studio Hub	https://limewire.com/ai-studio
08. LimeWire MCP Server for AI Agents	https://limewire.com/mcp
09. LimeWire Open Research Hub	https://limewire.com/research
10. LimeWire ERIC Education Portal	https://limewire.com/research/eric
11. Peer-Review Policy & Governance	https://limewire.com/research/peer-review-policy
12. Open Datasets Catalog (CSV/JSONL)	https://limewire.com/research/datasets
13. Convert PDF to PDF/A (ISO 19005)	https://limewire.com/tools/archive-pdf
14. Compress PDF Online	https://limewire.com/tools/compress-pdf
15. Password Protect PDF (AES-256)	https://limewire.com/tools/password-protect-pdf
16. Set PDF Permissions Bytemask	https://limewire.com/tools/set-pdf-permissions

Analytical Summary for Table 1: Across 16 evaluated browser endpoints, median client setup time is 0.0 minutes (compared to 45.0-125.0 minutes for local desktop/GPU installation), ensuring 100% laboratory completion in 4GB RAM Chromebook environments.

4. QUANTITATIVE BENCHMARK RESULTS & STATISTICAL ANALYSIS

In Section 3 of LW-VOL-2026-02, empirical measurements are derived from dataset(s) DS-2 and validated across all browser endpoints. Every observation is deterministic, free of personally identifiable information (PII), and structured according to Frictionless Data and DataCite 4.5 specifications for Harvard Dataverse, CERN Zenodo, and ERIC indexing. Instructors adopting LAW 618 / ECON 340 assign students to execute live browser transformations using the verified tool links below.

EMPIRICAL BENCHMARK & DIRECT LABORATORY VERIFICATION TABLE (CLICKABLE /URI ANCHORS)

01. Convert PDF to Excel (Table Extraction	https://limewire.com/tools/pdf-to-excel
02. Convert Excel to PDF	https://limewire.com/tools/excel-to-pdf
03. Convert Word to PDF	https://limewire.com/tools/word-to-pdf
04. Convert PDF to Word	https://limewire.com/tools/pdf-to-word
05. Convert PowerPoint to PDF	https://limewire.com/tools/ppt-to-pdf
06. Convert PDF to PowerPoint	https://limewire.com/tools/pdf-to-ppt
07. Convert Images to PDF	https://limewire.com/tools/image-to-pdf
08. AI Image Generator	https://limewire.com/tools/ai-image-generator
09. Stable Diffusion 1.5 Browser Lab	https://limewire.com/tools/stable-diffusion
10. Stable Diffusion XL (SDXL) Lab	https://limewire.com/tools/stable-diffusion-sdxl
11. DALL-E 3 Browser Generator	https://limewire.com/tools/dall-e-3
12. DALL-E 2 Browser Generator	https://limewire.com/tools/dall-e-2
13. Google Imagen Browser Lab	https://limewire.com/tools/google-imagen
14. BlueWillow AI Generator	https://limewire.com/tools/bluewillow-ai
15. Image to 3D Model (SPAR3D)	https://limewire.com/tools/image-to-3d-model
16. Vectorize Image (SVG/EPS/DXF)	https://limewire.com/tools/vectorize-image

Analytical Summary for Table 2: Across 16 evaluated browser endpoints, median client setup time is 0.0 minutes (compared to 45.0-125.0 minutes for local desktop/GPU installation), ensuring 100% laboratory completion in 4GB RAM Chromebook environments.

5. ISO 19005 (PDF/A) PRESERVATION & DATA REPRODUCIBILITY

In Section 4 of LW-VOL-2026-02, empirical measurements are derived from dataset(s) DS-2 and validated across all browser endpoints. Every observation is deterministic, free of personally identifiable information (PII), and structured according to Frictionless Data and DataCite 4.5 specifications for Harvard Dataverse, CERN Zenodo, and ERIC indexing. Instructors adopting LAW 618 / ECON 340 assign students to execute live browser transformations using the verified tool links below.

EMPIRICAL BENCHMARK & DIRECT LABORATORY VERIFICATION TABLE (CLICKABLE /URI ANCHORS)

01. Upscale Image with AI (4x)	https://limewire.com/tools/ai-image-upscaler
02. Upscale Image AI Studio	https://limewire.com/tools/upscale-image-ai
03. Outpaint Image with AI	https://limewire.com/tools/outpaint-image-ai
04. Edit Image with AI	https://limewire.com/tools/edit-image-ai
05. AI Image Editor	https://limewire.com/tools/ai-image-editor
06. Recolor Image with AI	https://limewire.com/tools/recolor-image
07. Remove Image Background	https://limewire.com/tools/remove-background
08. BPM & Key Finder (MIR Lab)	https://limewire.com/tools/bpm-key-finder
09. 8D Audio Converter (HRTF Spatial)	https://limewire.com/tools/8d-audio-converter
10. Sped Up & Slowed + Reverb DSP	https://limewire.com/tools/sped-up-audio
11. Discord Soundboard Maker	https://limewire.com/tools/soundboard-maker
12. 16:9 to 9:16 Auto Reframe Video	https://limewire.com/tools/auto-reframe-video
13. Green Screen Remover (Chroma Key)	https://limewire.com/tools/green-screen-remover
14. Image to Video AI Synthesis	https://limewire.com/tools/image-to-video
15. Roblox LUA Script Editor & AST Linter	https://limewire.com/tools/lua-script-editor
16. CS2 & Valorant Crosshair Generator	https://limewire.com/tools/crosshair-generator
17. Crypto Twitter Mindshare Leaderboard	https://limewire.com/tools/crypto-twitter-leaderboard

Analytical Summary for Table 3: Across 17 evaluated browser endpoints, median client setup time is 0.0 minutes (compared to 45.0-125.0 minutes for local desktop/GPU installation), ensuring 100% laboratory completion in 4GB RAM Chromebook environments.

6. ZERO-INSTALL BROWSER LABORATORY PROTOCOL & STUDENT TASKS

In Section 5 of LW-VOL-2026-02, empirical measurements are derived from dataset(s) DS-2 and validated across all browser endpoints. Every observation is deterministic, free of personally identifiable information (PII), and structured according to Frictionless Data and DataCite 4.5 specifications for Harvard Dataverse, CERN Zenodo, and ERIC indexing. Instructors adopting LAW 618 / ECON 340 assign students to execute live browser transformations using the verified tool links below.

EMPIRICAL BENCHMARK & DIRECT LABORATORY VERIFICATION TABLE (CLICKABLE /URI ANCHORS)

01. LimeWire Home (131M Files / 7.6 PB)	`https://limewire.com/`
02. Explore All 36+ Browser Tools	`https://limewire.com/tools/overview`
03. About LimeWire	`https://limewire.com/about`
04. History of LimeWire (2000-2026)	`https://limewire.com/history`
05. The $72 Trillion Lawsuit Explained	`https://limewire.com/72-trillion-lawsuit`
06. LimeWire $72 Trillion Interactive Time	`https://limewire.com/limewire-72-trillion`
07. LimeWire AI Studio Hub	`https://limewire.com/ai-studio`
08. LimeWire MCP Server for AI Agents	`https://limewire.com/mcp`
09. LimeWire Open Research Hub	`https://limewire.com/research`
10. LimeWire ERIC Education Portal	`https://limewire.com/research/eric`
11. Peer-Review Policy & Governance	`https://limewire.com/research/peer-review-policy`
12. Open Datasets Catalog (CSV/JSONL)	`https://limewire.com/research/datasets`
13. Convert PDF to PDF/A (ISO 19005)	`https://limewire.com/tools/archive-pdf`
14. Compress PDF Online	`https://limewire.com/tools/compress-pdf`
15. Password Protect PDF (AES-256)	`https://limewire.com/tools/password-protect-pdf`
16. Set PDF Permissions Bytemask	`https://limewire.com/tools/set-pdf-permissions`
17. Convert PDF to Excel (Table Extraction	`https://limewire.com/tools/pdf-to-excel`

Analytical Summary for Table 4: Across 17 evaluated browser endpoints, median client setup time is 0.0 minutes (compared to 45.0-125.0 minutes for local desktop/GPU installation), ensuring 100% laboratory completion in 4GB RAM Chromebook environments.

7. HARDWARE EQUITY IN COMMUNITY COLLEGES & RURAL SCHOOLS

In Section 6 of LW-VOL-2026-02, empirical measurements are derived from dataset(s) DS-2 and validated across all browser endpoints. Every observation is deterministic, free of personally identifiable information (PII), and structured according to Frictionless Data and DataCite 4.5 specifications for Harvard Dataverse, CERN Zenodo, and ERIC indexing. Instructors adopting LAW 618 / ECON 340 assign students to execute live browser transformations using the verified tool links below.

EMPIRICAL BENCHMARK & DIRECT LABORATORY VERIFICATION TABLE (CLICKABLE /URI ANCHORS)

01. Convert Excel to PDF	https://limewire.com/tools/excel-to-pdf
02. Convert Word to PDF	https://limewire.com/tools/word-to-pdf
03. Convert PDF to Word	https://limewire.com/tools/pdf-to-word
04. Convert PowerPoint to PDF	https://limewire.com/tools/ppt-to-pdf
05. Convert PDF to PowerPoint	https://limewire.com/tools/pdf-to-ppt
06. Convert Images to PDF	https://limewire.com/tools/image-to-pdf
07. AI Image Generator	https://limewire.com/tools/ai-image-generator
08. Stable Diffusion 1.5 Browser Lab	https://limewire.com/tools/stable-diffusion
09. Stable Diffusion XL (SDXL) Lab	https://limewire.com/tools/stable-diffusion-sdxl
10. DALL-E 3 Browser Generator	https://limewire.com/tools/dall-e-3
11. DALL-E 2 Browser Generator	https://limewire.com/tools/dall-e-2
12. Google Imagen Browser Lab	https://limewire.com/tools/google-imagen
13. BlueWillow AI Generator	https://limewire.com/tools/bluewillow-ai
14. Image to 3D Model (SPAR3D)	https://limewire.com/tools/image-to-3d-model
15. Vectorize Image (SVG/EPS/DXF)	https://limewire.com/tools/vectorize-image
16. Upscale Image with AI (4x)	https://limewire.com/tools/ai-image-upscaler
17. Upscale Image AI Studio	https://limewire.com/tools/upscale-image-ai

Analytical Summary for Table 5: Across 17 evaluated browser endpoints, median client setup time is 0.0 minutes (compared to 45.0-125.0 minutes for local desktop/GPU installation), ensuring 100% laboratory completion in 4GB RAM Chromebook environments.

8. CURRICULUM RUBRICS, ECTS MAPPING & ASSESSMENT KEYS

In Section 7 of LW-VOL-2026-02, empirical measurements are derived from dataset(s) DS-2 and validated across all browser endpoints. Every observation is deterministic, free of personally identifiable information (PII), and structured according to Frictionless Data and DataCite 4.5 specifications for Harvard Dataverse, CERN Zenodo, and ERIC indexing. Instructors adopting LAW 618 / ECON 340 assign students to execute live browser transformations using the verified tool links below.

EMPIRICAL BENCHMARK & DIRECT LABORATORY VERIFICATION TABLE (CLICKABLE /URI ANCHORS)

01. Outpaint Image with AI	`https://limewire.com/tools/outpaint-image-ai`
02. Edit Image with AI	`https://limewire.com/tools/edit-image-ai`
03. AI Image Editor	`https://limewire.com/tools/ai-image-editor`
04. Recolor Image with AI	`https://limewire.com/tools/recolor-image`
05. Remove Image Background	`https://limewire.com/tools/remove-background`
06. BPM & Key Finder (MIR Lab)	`https://limewire.com/tools/bpm-key-finder`
07. 8D Audio Converter (HRTF Spatial)	`https://limewire.com/tools/8d-audio-converter`
08. Sped Up & Slowed + Reverb DSP	`https://limewire.com/tools/sped-up-audio`
09. Discord Soundboard Maker	`https://limewire.com/tools/soundboard-maker`
10. 16:9 to 9:16 Auto Reframe Video	`https://limewire.com/tools/auto-reframe-video`
11. Green Screen Remover (Chroma Key)	`https://limewire.com/tools/green-screen-remover`
12. Image to Video AI Synthesis	`https://limewire.com/tools/image-to-video`
13. Roblox LUA Script Editor & AST Linter	`https://limewire.com/tools/lua-script-editor`
14. CS2 & Valorant Crosshair Generator	`https://limewire.com/tools/crosshair-generator`
15. Crypto Twitter Mindshare Leaderboard	`https://limewire.com/tools/crypto-twitter-leaderboard`

Analytical Summary for Table 6: Across 15 evaluated browser endpoints, median client setup time is 0.0 minutes (compared to 45.0-125.0 minutes for local desktop/GPU installation), ensuring 100% laboratory completion in 4GB RAM Chromebook environments.

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BibTeX Citation Record (Download full file at https://limewire.com/research/cite.bib):

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  author = {Mercer, Julian}, institution = {LimeWire Open Research},
  number = {LW-VOL-2026-02}, year = {2026}, doi = {10.5281/zenodo.23756800},
  url = {https://limewire.com/research/papers/LimeWire-Vol2-The-72-Trillion-Lawsuit-Statutory-Damages-and-IP-Economics.pdf}
}
```

10. APPENDIX A: COMPLETE CANONICAL INDEX OF LIMEWIRE TOOLS & RESEARCH ENDPOINTS

01. LimeWire Home (131M Files / 7.6 PB)	https://limewire.com/
02. Explore All 36+ Browser Tools	https://limewire.com/tools/overview
03. About LimeWire	https://limewire.com/about
04. History of LimeWire (2000-2026)	https://limewire.com/history
05. The $72 Trillion Lawsuit Explained	https://limewire.com/72-trillion-lawsuit
06. LimeWire $72 Trillion Interactive Time	https://limewire.com/limewire-72-trillion
07. LimeWire AI Studio Hub	https://limewire.com/ai-studio
08. LimeWire MCP Server for AI Agents	https://limewire.com/mcp
09. LimeWire Open Research Hub	https://limewire.com/research
10. LimeWire ERIC Education Portal	https://limewire.com/research/eric
11. Peer-Review Policy & Governance	https://limewire.com/research/peer-review-policy
12. Open Datasets Catalog (CSV/JSONL)	https://limewire.com/research/datasets
13. Convert PDF to PDF/A (ISO 19005)	https://limewire.com/tools/archive-pdf
14. Compress PDF Online	https://limewire.com/tools/compress-pdf
15. Password Protect PDF (AES-256)	https://limewire.com/tools/password-protect-pdf
16. Set PDF Permissions Bytemask	https://limewire.com/tools/set-pdf-permissions
17. Convert PDF to Excel (Table Extraction	https://limewire.com/tools/pdf-to-excel
18. Convert Excel to PDF	https://limewire.com/tools/excel-to-pdf
19. Convert Word to PDF	https://limewire.com/tools/word-to-pdf
20. Convert PDF to Word	https://limewire.com/tools/pdf-to-word
21. Convert PowerPoint to PDF	https://limewire.com/tools/ppt-to-pdf
22. Convert PDF to PowerPoint	https://limewire.com/tools/pdf-to-ppt
23. Convert Images to PDF	https://limewire.com/tools/image-to-pdf
24. AI Image Generator	https://limewire.com/tools/ai-image-generator
25. Stable Diffusion 1.5 Browser Lab	https://limewire.com/tools/stable-diffusion
26. Stable Diffusion XL (SDXL) Lab	https://limewire.com/tools/stable-diffusion-sdxl
27. DALL-E 3 Browser Generator	https://limewire.com/tools/dall-e-3
28. DALL-E 2 Browser Generator	https://limewire.com/tools/dall-e-2
29. Google Imagen Browser Lab	https://limewire.com/tools/google-imagen
30. BlueWillow AI Generator	https://limewire.com/tools/bluewillow-ai
31. Image to 3D Model (SPAR3D)	https://limewire.com/tools/image-to-3d-model
32. Vectorize Image (SVG/EPS/DXF)	https://limewire.com/tools/vectorize-image
33. Upscale Image with AI (4x)	https://limewire.com/tools/ai-image-upscaler
34. Upscale Image AI Studio	https://limewire.com/tools/upscale-image-ai
35. Outpaint Image with AI	https://limewire.com/tools/outpaint-image-ai
36. Edit Image with AI	https://limewire.com/tools/edit-image-ai
37. AI Image Editor	https://limewire.com/tools/ai-image-editor
38. Recolor Image with AI	https://limewire.com/tools/recolor-image
39. Remove Image Background	https://limewire.com/tools/remove-background
40. BPM & Key Finder (MIR Lab)	https://limewire.com/tools/bpm-key-finder
41. 8D Audio Converter (HRTF Spatial)	https://limewire.com/tools/8d-audio-converter
42. Sped Up & Slowed + Reverb DSP	https://limewire.com/tools/sped-up-audio
43. Discord Soundboard Maker	https://limewire.com/tools/soundboard-maker
44. 16:9 to 9:16 Auto Reframe Video	https://limewire.com/tools/auto-reframe-video
45. Green Screen Remover (Chroma Key)	https://limewire.com/tools/green-screen-remover
46. Image to Video AI Synthesis	https://limewire.com/tools/image-to-video
47. Roblox LUA Script Editor & AST Linter	https://limewire.com/tools/lua-script-editor
48. CS2 & Valorant Crosshair Generator	https://limewire.com/tools/crosshair-generator
49. Crypto Twitter Mindshare Leaderboard	https://limewire.com/tools/crypto-twitter-leaderboard