## DECLARATION OF WALTER C. DAUGHERITY

WALTER C. DAUGHERITY declares, under penalty of perjury, pursuant to 28 U.S.C. § 1746 , that the following is true and correct.

## Qualifications

1. My full name is Walter Chisholm Daugherity. I am a Senior Lecturer Emeritus in the Department of Computer Science and Engineering at Texas A\&M University and also a computer consultant to major national and international firms, as well as to government agencies, including classified work.
2. Prior to my retirement in 2019, I taught computer science and engineering at both the undergraduate and graduate levels for 37 years, the last 32 years being at Texas A\&M University. Courses I developed and taught include courses in artificial intelligence, expert systems, programming and software design, quantum computing, and cyberethics.
3. I have published 26 research articles related to expert systems, fuzzy logic, noise-based logic, and quantum computing from over $\$ 2.8$ million in funded research projects, plus conference papers and other publications.
4. As a computer expert I have consulted for major national and international firms, including IBM Federal Systems Division, New York Times, Washington Post, Los Angeles Times, Southwestern Bell Telephone, Fulbright \& Jaworski (Houston), and

Phonogram B.V. (Amsterdam), and also for government agencies such as Cheyenne and Arapaho Tribes of Oklahoma, Texas Department of Agriculture, U. S. Customs Service, and classified work.
5. Further details about my qualifications are included in my Curriculum Vitae attached as Exhibit A.
6. I have qualified as an expert witness in court cases related to elections, electronic voting machines, and election data.

## Ballot Tabulation Failures

7. I have been provided the tabulator System Log files by Tim LaSota, counsel for Kari Lake, who obtained them from Maricopa County pursuant to a Public Records Act Request.
8. As has been widely reported, there was an extremely large number of ballot tabulation failures at the 223 voting centers in Maricopa County on Election Day, November 8, 2022. By examining the System Log file messages for each tabulator used at Maricopa County's 223 vote centers, as well as the tabulators used at the Maricopa County Tabulation and Election Center (MCTEC), the various types of "insertion error" messages were identified and categorized.
9. However, some of these "insertion error" System Log messages are not "failures" in the sense that the tabulator failed to scan the inserted ballot due to an inability to scan the ballot because of a configuration issue or print quality error, so such error messages must thus
be counted separately. For example, if the tabulator scanned a ballot correctly, sensed an overvote (e.g., voting for more candidates than allowed for a race), informed the voter, and the voter chose not to cast that ballot but to first correct it, the ballot would be ejected.
10. To understand the types of "insertion errors" which are failures, here is a photograph of the back side of two 20 -inch ballots, a good ballot (top) alongside a bad ballot (bottom), which was spoiled:

11. The large black rectangles at three of the four corners enable detection of which end of the ballot is the top, since ballots may be inserted into the tabulator in either direction.

Then around the outer border of the ballot is a series of uniformly-spaced timing synchronization marks which enable the tabulator to determine the row and column of each filled-in bubble and look up the corresponding candidate, contest proposition, etc., in the ballot definition file and tally the vote. The tabulator software scrupulously checks that all these marks are exactly the right size and in exactly the right position, to ensure that the ballot is genuine and that the correct candidate or proposition is tallied for properly filled-in bubbles.
12. Careful inspection of the bottom (bad) ballot reveals that there is a half-inch extra white space at both the top and the bottom, which means that the total distance from the top timing mark row to the bottom timing mark row is one inch less than on the top (good) ballot. The side margins are similarly wider on the bad ballot, and measurements verify that the good 8.5 -inch by 20 -inch image (top) has been shrunk by $5 \%$ to make an 8.075 -inch by 19 -inch image, which is then centered and printed on 8.5 -inch by 20 -inch paper. In other words, the good ballot image has been reduced to $95 \%$ of its proper size.
13. This results in all the edge markers and frame timing synchronization marks' being too small, which makes the ballot invalid. Multiple detailed error messages are then generated in the System Log file, such as:

```
08 Nov 2022 06:28:03 [ImageProcessing] ERROR : [Pixel Count] left edge marker #39 not found.
08 Nov 2022 06:28:03 [ImageProcessing] ERROR : [Pixel Count] Determine Vertical edge markers failed
08 Nov 2022 06:28:03 [ImageProcessing] ERROR : [Pixel Count] Ballot misread.
08 Nov 2022 06:28:05 [CentralManager] INFO : [CentralManager] Ballot returned to a voter
``` since the ballot is unscannable.
14. Another cause of failure, which likewise affects the edge markers and timing
synchronization marks, is when the ink printed on the ballot is not dark enough or is not uniform, as in this photograph:


As a result, the ballot is again rejected, since (in layman's terms) the marks are not perfectly
sized, completely black rectangles. I am informed that once this particular problem was identified on Election Day, some enterprising poll workers or voters spread the word at their voting center to laboriously blacken all the edge markers and timing marks by hand in order to get a rejected blotchy ballot to scan.
15. Possible causes of blotchy printing include (1) insufficient toner (ink cartridge is low and needs replacing) and (2) too low a print fuser temperature. The latter is especially important for heavy media such as the 80 or 100-pound ballot paper specified by the tabulator vendor. I am informed that some technicians discovered the misprinting printers were not set to "heavy media" as they should have been, and when they changed the printers to this correct setting, the print quality improved.
16. All of the "insertion error" System Log messages described in \(9 \| 8-15\) above were then categorized by type and counted, as depicted in the following graphic:

\section*{Ballot-Insert Counts and Flow from Voting Center (Election Day) Tabulator System Logs}

17. Of 464,926 tabulator-scanning ballot insertions, 230,353 ballots were cast, 198,162 ballots were returned to the voter, and 36,411 times there was a "system hang" or ghost "paper jam" requiring operator intervention. Of the 198, 162 ballots returned to the voter, 17,268 were proper since they were at the request of the voter (see \| 9 above), leaving 180,894 which were errors.
18. Attached as Exhibit B is a chart showing the number of ballot rejections due to configuration and/or print quality issues by vote center. These resulted from bad edge markers (corner alignment marks and timing synchronization marks around the "frame" of the ballot image) due to (1) the marks' being too small due to shrinking the 20 -inch ballot image to 19 inches and then centering and printing it on 20-inch paper, (2) blotchy printing
due to improper printer media weight setting, or (3) blotchy printing due to insufficient toner. In case (1), improperly shrinking the ballot image from 20 inches to 19 inches shrank the edge markers by \(5 \%\) (19 is \(5 \%\) less than 20 ) and the tabulator correctly identified them as too small to be a valid ballot. In cases (2) and (3) the timing marks were not completely black.
19. A total of 138 vote centers (out of 223) in Exhibit B show a ballot insertion rejection rate of \(20 \%\) or more. This is 100 or more times the acceptable limit of \(0.2 \%\) ( 1 in 500) specified in the Election Assistance Commission's (EAC's) Voting System Guidelines version 2.0; see section 1.2-G, which says:

\section*{1.2-G - Misfeed rate benchmark}

The voting system misfeed rate must not exceed 0.002 (1/500).

\section*{Discussion}

Multiple feeds, misfeeds (jams), and rejections of ballots that meet all manufacturer specifications are all treated collectively as "misfeeds" for benchmarking purposes; that is, only a single count is maintained.

\section*{Timing of Ballot Insertion Errors}
20. All of the System Log messages are time-stamped, which makes it possible to see when the ballot insertion errors occurred throughout Election Day, as depicted in the following graph (which is the "Plot" referred to in the graphic in \(\mathbb{\|} 16\) above):

21. This shows that, across the county, over 7,000 ballot insertion failures occurred in almost every single 30-minute period for the entirety of Election Day, starting at 7:00 A.M. and continuing to 8:00 P.M., with a smaller number of failures prior to 7:00 A.M. and after 8:00 P.M. This was thus an enormous and continuous problem which did not get better overall during Election Day, despite numerous technicians' making adjustments throughout the day.
22. These facts belie Maricopa County's representations that the problems were minor and quickly remedied.

\section*{Inconsistencies in the Redacted Cast Vote Record}
23. I have also been provided with the redacted Cast Vote Record (CVR) by Tim LaSota, counsel for Kari Lake, who obtained it from Maricopa County pursuant to a Public Records Act Request. Since it is labelled "redacted" it is not complete; however, the portions of the actual CVR remaining are represented by the County to be accurate, but this does not appear to be the case.
24. Although votes were cast in all voting centers, 43 voting centers do not appear at all in the redacted CVR. These are the same voting centers listed in the County's reconciliation report (attached as Exhibit C) as having been tabulated at Central Count instead of using the voting center results recorded on their memory cards, with the exception of Journey Church, which both appears in the redacted CVR (indicating its memory cards were counted) and also in Exhibit C as counted at Central Count, so it may have been counted twice. As a result, there is no way to know what the true outcome of the votes in those voting centers are, nor the total votes for the entire election.
25. Note that only two voting centers are listed as having "Door 3" ballots (defective ballots rejected for printing failures as described in \(\boldsymbol{9} \boldsymbol{T}\) 10-18 above, or for other reasons) commingled with ballots that were successfully scanned and tabulated to the memory cards. To rectify this commingling error, the memory cards from these two voting centers were ignored and all the ballots tabulated at Central Count. This should not have been done for any other voting centers.
26. Also note that defective ballots rejected for printing failures at a voting center would likewise be rejected by a Central Count scanner, since the same ballot
style definitions and format must be used.

\section*{Mismatched Signatures}
27. I received a copy of Exhibit 12 in Lake v. Hobbs, the Declaration of Shelby Busch dated December 7, 2022, regarding mismatched signatures in Maricopa County, Arizona ("Busch Declaration"). From a large sample of mismatched signatures from the November 3, 2020, election, the Busch Declaration projects the expected number of "egregiously mismatched" signatures and "standard mismatched" signatures in the November 8, 2022, election. (Note: The terms "egregiously mismatched" and "standard mismatched" are defined in the Busch Declaration, e.g., at ब 19. For example, a signature with a completely different name is termed an "egregious mismatch" and a signature which does not meet the Arizona Secretary of State standards is termed a "standard mismatch.")
28. I was asked to assess the accuracy and statistical significance of the mathematical calculations in the Busch Declaration, specifically in its बT 19-20.
29. I confirmed that the calculations performed therein are accurate to within rounding to two decimal places.
30. To determine confidence intervals for the projections to the 2022 election made in the Busch Declaration, the appropriate standard statistical method is the "Exact Binomial Test." The confidence intervals resulting from that statistical test were then used to determine the minimum and maximum range for the projections to the 2022 election.
31. The resulting spreadsheet is attached as Exhibit D. It is divided horizontally into two sections: the top half deals with projections of the number of "egregiously
mismatched" signatures, and the bottom half deals with projections of the number of "standard mismatched" signatures. Each half contains the upper and lower limits for five different confidence levels, \(95 \%, 99 \%, 99.9 \%, 99.99 \%\), and \(99.999 \%\).
32. In both halves the most compelling numbers are highlighted, namely:
(a) With \(99.999 \%\) confidence, the projected number of egregiously mismatched signatures in 2022 is at least 184,224 out of 1.9 million ballot envelopes.
(b) With \(99.999 \%\) confidence, the projected number of egregiously mismatched signatures in 2022 is at least 127,186 out of 1,311,734 early votes.
(c) With \(99.999 \%\) confidence, the projected number of standard mismatched signatures in 2022 is at least 236,763 out of 1.9 million ballot envelopes.
(d) With \(99.999 \%\) confidence, the projected number of standard mismatched signatures in 2022 is at least 163,458 out of 1,311,734 early votes.
33. Thus, in all four cases, with \(99.999 \%\) confidence the projected number of mismatched signatures by either criterion is over seven times the 17,117 -vote margin of victory reported in the race for governor.
34. The calculations I performed confirmed that the calculations in the Busch Declaration, specifically in its \(\boldsymbol{\Phi} \boldsymbol{T} 19-20\), are accurate to within rounding to two decimal places.
35. Using appropriate standard statistical methods, I calculated five sets of confidence intervals for the projected number of mismatched signatures in 2022, at two levels of stringency for what constitutes a mismatch.
36. Taking the lowest (most conservative) of these confidence intervals, and the
most conservative mismatch criterion, the results show that, with \(99.999 \%\) confidence, the projected number of mismatched signatures in 2022 is at least 127,186 out of \(1,311,734\) early votes.
37. 127,186 mismatched signatures is over seven times the 17,117 -vote margin of victory reported in the race for governor.
38. UPDATE: Yesterday (January 21, 2023) I received from Shelby Busch an update to the Busch declaration dated December 7, 2022, as follows:

Failed SOS Standards
Egregious Signature Mismatches

47,366
38,909

\section*{Total Amount of Signatures Reviewed is 380, 976}
39. Since the percentage of egregiously mismatched signatures is now \(10.21 \%\), which is higher than the \(9.97 \%\) in the original smaller sample of 230,339 , the projected number of mismatched signatures in 2022, with \(99.999 \%\) confidence, is even more than 127,186 out of \(1,311,734\) early votes.

\section*{Conclusions}
40. Ballot Tabulation Failures: There was an extremely large number of ballot tabulation failures at the 223 voting centers in Maricopa County on Election Day, including 180,894 errors which were printer or system failures, as documented in the tabulator System Log files. A total of 138 of these 223 vote centers show a ballot insertion rejection rate of \(20 \%\) or more, which is 100 or more times the EAC's acceptable
limit of \(0.2 \%\).
41. Timing of Ballot Insertion Errors: Across the county, over 7,000 ballot insertion failures occurred in almost every single 30-minute period for the entirety of Election Day, starting at 7:00 A.M. and continuing to 8:00 P.M., with a smaller number of failures prior to 7:00 A.M. and after 8:00 P.M. This was thus an enormous and continuous problem which did not get better overall during Election Day, despite numerous technicians' making adjustments throughout the day.
42. Inconsistencies in the Redacted Cast Vote Record: 43 voting centers do not appear at all in the redacted CVR, but are listed in the County's reconciliation report (attached as Exhibit C) as having been tabulated at Central Count instead of using the voting center results recorded on their memory cards,
43. Mismatched Signatures: With \(99.999 \%\) confidence, the projected number
of mismatched signatures in 2022 is at least 127,186 out of 1,311,734 early votes.
44. I have personal knowledge of the foregoing and am fully competent to testify to it.

I declare under penalty of perjury that the foregoing is true and correct.
Executed on January 22, 2023.
/s/Walter C. Daugherity
Walter C. Daugherity

\section*{EXHIBIT A}

\title{
Curriculum Vitae of Walter C. Daugherity \\ Walter C. Daugherity 10895 Lakefront Drive College Station, TX 77845 (979) 845-1308 (Office) w-daugherity@tamu.edu
}

\section*{EDUCATION}

Ed.D., Mathematical Education, Harvard University, Cambridge, Massachusetts, 1977. Dissertation: "On the Ordering of Topics in the Teaching of Mathematics." Advisor: Marc Lieberman.
M.A.T., Mathematics, Harvard University, Cambridge, Massachusetts, 1967 (age 20).
B.S., Mathematics, Oklahoma Christian College, Oklahoma City, Oklahoma, 1966 (3 years). Minors: Physics and chemistry, German.

\section*{EXPERIENCE}

1973 to present Daugherity Brothers, Inc., (Computer consultants), Bethany, Oklahoma. Co-founder, chairman, and president. Clients include IBM Federal Systems Division, New York Times, Washington Post, Los Angeles Times, Cheyenne and Arapaho Tribes of Oklahoma, Southwestern Bell Telephone, Fulbright \& Jaworski (Houston), Texas Department of Agriculture, Phonogram B.V. (Amsterdam), and U. S. Customs Service.

1987 to present
Texas A \& M University, College Station, Texas. Visiting Assistant Professor/Senior Lecturer/Senior Lecturer Emeritus, Departments of Computer Science and Engineering and Electrical and Computer Engineering, College of Engineering.

1989-91
Texas A \& M University System, College Station, Texas. Director, Knowledge Systems Research Center, Computer Science Division of the Texas Engineering Experiment Station.

1984-87

1978-80

1971-73

1970-71

1969-70

1968-70

1967

1967

1966

1965

1963
1967

Blinn College, Brenham, Texas. Computer science instructor. Part-time 1984-86, full-time 1986-87.

Rose State College, Midwest City, Oklahoma. Data processing instructor (part-time).

ECRM, Bedford, Massachusetts. Systems programmer.
Harvard Computing Center, Cambridge, Massachusetts. Telecommunications specialist.

Computer-Aided Instruction Laboratory, Harvard University, Cambridge, Massachusetts. Systems programmer.

Harvard University, Division of Engineering and Applied Physics, Cambridge, Massachusetts. Teaching fellow (for George Mealy and Thomas Bartee).

Driscoll Junior High School, Brookline, Massachusetts. Mathematics teacher.

University of Oklahoma Medical Center Computing Facility, Oklahoma City, Oklahoma. Programmer.

University of Central Oklahoma Data Processing Center, Edmond, Oklahoma. Programmer.

Oklahoma Christian University of Science and Arts, Oklahoma City, Oklahoma. Statistical programmer.

University of Oklahoma Computer Center, Norman, Oklahoma. Lab instructor.

\section*{RESEARCH AND DESIGN}
1. Refereed Publications

Daugherity, W. C., and Kish, L. B., "More on the Reference-Grounding-Based Search in Noise-Based Logic," Fluctuation and Noise Letters, Vol. 21, No. 3, 2250023, 2022.

Kish, L. B., and Daugherity, W. C., "Entanglement, and Unsorted Database Search in Noise-Based Logic," Applied Sciences, Vol. 9, No. 15, 3029, 2019.

Kish, L. B., and Daugherity, W. C., "Noise-Based Logic Gates by Operations on the Reference System," Fluctuation and Noise Letters, Vol. 17, No. 4, 1850033, 2018.

Daugherity, W. C., and Coulson, R. N., "Knowledge Engineering for Sustainable Agriculture Management," Proceedings of ICAST 2001
Conference (Beijing, China, November 2001), 2:266, 2001.
Coulson, R. N., Saarenmaa, H., Daugherity, W. C., Rykiel, E. J., Saunders, M. C., and Fitzgerald, J. W., "A Knowledge System Environment for Ecosystem Management," book chapter in Klopatek, J. and Gardner, R. (eds.), Landscape Ecological Analysis: Issues and Applications, Springer-Verlag, 57-79, 1999.

Coulson, R. N., Daugherity, W. C., Rykiel, E. J., Saarenmaa, H., and Saunders, M. C., "The Pragmatism of Ecosystem Management: Planning, Problem Solving and Decision Making with Knowledge-Based Systems," Proceedings of Eco-Informa '96 Global Networks for Environmental Information Conference (Lake Buena Vista, Florida, November 1996), 10:342-50, 1996.

Coulson, R. N., Fitzgerald, J. W.*, Daugherity, W. C., Oliveria, F. L., and Wunneburger, D. F., "Using Spatial Data for Integrated Pest Management in Forest Landscapes," Proceedings of the \(11^{\text {th }}\) Conference on Geographic Information Systems: Integrating Spatial Information Technologies for Tomorrow (Vancouver, British Columbia, Canada, 1997).

Daugherity, W. C.; Harris, C. E., Jr.; and Rabins, M. J., "Introducing Ethics and Professionalism in REU Programs," Proceedings of the 1995 World Conference on Engineering Education (Minneapolis, Minnesota, October 1995).

Coulson, R. N., Daugherity, W. C., Vidlak, M. D.*, Fitzgerald, J. W. \({ }^{*}\), Teh, S. H. *, Oliveria, F. L., Drummond, D. B., and Nettleton, W. A., "Computer-based Planning, Problem Solving, and Decision Making in Forest Health Management: An Implementation of the Knowledge System Environment for the Southern Pine Beetle, ISPBEX-II," Proceedings of the IUFRO Symposium on Current Topics in Forest Entomology (Maui, Hawaii), 1995.

Yen, J., Daugherity, W. C., Wang, H.*, and Rathakrishnan, B. *, "SelfTuning and Self-Learning Fuzzy Systems," book chapter in Yen, J., Langari, R., and Zadeh, L. (eds.), Industrial Applications of Fuzzy Logic and Intelligent Systems, IEEE Press, 1995.

\footnotetext{
* Graduate Research Assistant I funded
}

Daugherity, W. C., Video review of Introduction to Biological and Artificial Neural Networks for Pattern Recognition, by Steven K. Rogers, in IEEE Transactions on Neural Networks, Vol. 5, No. 5, 1994.

Teh, S. H.*, Daugherity, W. C., and Coulson, R. N., "A User-Centric Methodology for Building Usable Expert Systems," Proceedings of the 7th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems (Austin, Texas, May-June 1994), 45-48, 1994.

Daugherity, W. C., "A Neural-Fuzzy System for the Protein Folding Problem," Proceedings of the Third International Workshop on Industrial Fuzzy Control \& Intelligent Systems (IFIS `93) (Houston, Texas, December 1993), 47-49, 1993.

Daugherity, W. C., "A Partially Self-Training System for the Protein Folding Problem," Proceedings of the World Congress on Neural Networks (WCNN `93), (Portland, Oregon, July 1993). Invited paper.

Yen, J., Wang, H. *, and Daugherity, W. C., "Design Issues of ReinforcementBased Self-Learning Fuzzy Control," Proceedings of the World Congress on Neural Networks (WCNN `93), (Portland, Oregon, July 1993).

Daugherity, W. C., "Characterizations of Fuzzy Operations," Proceedings of the Second International Workshop on Industrial Fuzzy Control \& Intelligent Systems (College Station, Texas, December 1992), 234, 1992.

Yen, J., Wang, H. *, and Daugherity, W. C., "Design Issues of a ReinforcementBased Self-Learning Fuzzy Controller for Petrochemical Process Control," Proceedings of North American Fuzzy Information Processing Society (Puerto Vallarta, December 1992), 1992.

Yen, J., Wang, H. *, and Daugherity, W. C., "An Adaptive Fuzzy Controller with Application to Petroleum Processing," Proceedings of IFAC Workshop on Intelligent Manufacturing Systems (Dearborn, October 1992), 1992.

Yen, J., Daugherity, W. C., and Rathakrishnan, B. * , "Fuzzy Logic and Its Application to Process Control," Proceedings of CAPA Technology Conference (Houston, May 1992), 78-86, 1992.
* Graduate Research Assistant I funded

Daugherity, W. C., Rathakrishnan, B. *, and Yen, J., "Performance Evaluation of a Self-Tuning Fuzzy Controller," Proceedings of the IEEE International Conference on Fuzzy Systems (FUZZ-IEEE) (San Diego, March 1992), 1992.

Daugherity, W. C., "An Application of Geometrical Reasoning to a Combinatorial Problem," Proceedings of the Seventh Annual Conference on Applied Mathematics (Edmond, Oklahoma, April 1991), pp. 226-232, 1991.

Daugherity, W. C., Review of Data Communications Dictionary, by Charles J. Sippl, in Computing Reviews, Vol. 17, No. 9, pp. 335-336, 1976.

Daugherity, W. C., "Circuits for Dial-up and Local Use of a Stand-alone PDP-8," Proceedings of the Digital Equipment Computer Users Society, Vol. 2, No. 2 (Los Angeles, December 1975), pp. 413-414, 1976.

Daugherity, W. C., Review of Effective Use of ANS COBOL Computer Programming Language, by Laurence S. Cohn, in Computing Reviews, Vol. 16, No. 10, p. 441, 1975.

Manwell, T., Daugherity, W., Desch, S., and Stolurow, L., "Tom Swift and His Electric Bilingual Grandmother," ACM SIGCUE Bulletin, Vol. 7, No. 1, pp. 5-17, 1973.

Daugherity, W. C., "A Telephone Amplifier," Transactions of the Oklahoma Junior Academy of Science, Vol. IV, pp. 130-132, 1961.
* Graduate Research Assistant I funded
2. Other Publications

Daugherity, W. C., "Honors Section," in Rabins, M. J., and Harris, C. E. Jr. (eds.), Engineering Ethics Teaching Manual, 1997.

Daugherity, W. C., "Honors Section," in Rabins, M. J., and Harris, C. E. Jr. (eds.), Engineering Ethics Teaching Manual, 1996.

Allen, G. D., Nelson, P., Jarvis, R. D., and Daugherity, W. C., "System Impact of Hit Assessment Capability for NPB Discrimination: Analysis of the Case of No-Hit Assessment," Weapons Lab/TALN Technical Report, Kirtland Air Force Base, May, 1990.

\section*{3. Other Conference Papers and Presentations}

Coulson, R. N., and Daugherity, W. C., "A Knowledge Engineering Approach for Ecosystem Management," 11th Annual Landscape Ecology Symposium, International Association for Landscape Ecology - Integration of Cultural and Natural Ecosystems Across Landscapes: Applications of the Science, Galveston, Texas, 1996.

Coulson, R. N., and Daugherity, W. C., "Decision Support Systems for Forest Pests: Where Do All the Knowledge-Based Systems Go?", North American Forest Insect Work Conference, San Antonio, Texas, 1996.

Daugherity, W. C. and Coulson, R. N., SPBEBE (Economic and Environmental Impact Assessment for Southern Pine Beetle Suppression Projects), computer code, developed for the USDA Forest Service, Forest Health Protection, 1996-1997.

Coulson, R. N., and Daugherity, W. C., "Knowledge System Environment for Ecosystem Management," Global Studies Seminar, Battelle Pacific Northwest Laboratories, Richland, Washington, 1995.

Daugherity, W. C. and Coulson, R. N., ISPBEX-II (Integrated Southern Pine Beetle Expert System), computer code, developed for the USDA Forest Service, Forest Health Protection, 1994.

Daugherity, W. C., and Yen, J., "Tutorial on Neuro-Fuzzy Systems," Third International Workshop on Industrial Fuzzy Control \& Intelligent Systems Houston, Texas, December 1993.

Daugherity, W. C., "Introduction to LISP with an On-line Demonstration," Houston Geotech '91, Houston, Texas, 1991.

Daugherity, W. C., "The Universal Classification Problem," South Central Regional Conference of the Association for Computing Machinery, Austin, Texas, 1984.

\section*{4. Research Projects}
"Remote Laboratory Data Entry and Retrieval System," Texas Department of Agriculture, Walter C. Daugherity, 1986, \$3,000 (Daugherity 100\%).
"Electrochemical Modeling of a Sinter Plate, Sealed Design Nickel-Cadmium (Ni-Cd) Battery Cell," National Aeronautics and Space Administration, Ralph E. White, Walter C. Daugherity, 1 graduate student, 1989, \(25 \%\) of my salary 1989-90 (Daugherity 100\%).
"Application of Reasoning under Uncertainty to Process Control," Texaco, Walter C. Daugherity and John Yen, 1 graduate student; competitive and peerreviewed, September 1990, \$18,000.
"Design of a Computational Classroom," Texas A \& M University, Walter C. Daugherity, September 1990-May 1991, \$60,000 (Daugherity 100\%).
"Design of a Second Computational Classroom," Texas A \& M University, Walter C. Daugherity, January 1991-December 1992, \$153,000 (Daugherity 100\%).
"Development of Honors Courses in Artificial Intelligence and Analysis of Algorithms," Texas A \& M University, Walter C. Daugherity, James Abello and Arkady Kanevsky, 2 graduate students, competitive, September 1991-May 1991, \$11,000 (Daugherity 50\%).
"Integrated Southern Pine Beetle Expert System"; USDA Forest Service; Robert N. Coulson, Walter C. Daugherity, and Jeffrey W. Fitzgerald; 5 graduate students; competitive and peer-reviewed; 1985-1992, \$974,120.
"Distributed Data-Base Support for the ISPBEX Expert System"; USDA Forest Service; Robert N. Coulson, Walter C. Daugherity, and Jeffrey W. Fitzgerald; 1 graduate student; competitive and peer-reviewed; 1992-93; \(\$ 35,000\).
"Integrated Southern Pine Beetle Expert System II"; USDA Forest Service; Robert N. Coulson, Walter C. Daugherity, and Jeffrey W. Fitzgerald; competitive and peer-reviewed; March 1993-February 1994; competitive and peer-reviewed; \(\$ 170,000\).
"Ecological Modelling of Regional Responses to Global Changes: A Knowledge System Environment for Planning, Problem-Solving and Decision Making"; Battelle Pacific Northwest Laboratory; Robert N. Coulson and Walter C. Daugherity; competitive and peer-reviewed; June-December 1995; \$39,996.
"Fitness of a Genetically Modified Gliocladium virens in Soil and Rhizosphere"; USDA Cooperative State Research Service; Charles M. Kenerley and Walter C. Daugherity; 1 senior associate, 2 graduate students, and 1 undergraduate student; competitive and peer-reviewed; September 1996August 2001; \$254,450 (Daugherity 50\%).
"Southern Pine Beetle Biological Evaluation and Economic Evaluation Program Conversion"; USDA Forest Service, Forest Health Protection; Robert N. Coulson (PI) and Walter C. Daugherity (Co-PI); competitive and peer-reviewed; 19961997; \$16,421.
"The Texas Imported Fire Ant Survey: The Fire Ant Spatial Information Management System (FASIMS)"; Texas Agricultural Experiment Station; Robert N. Coulson (PI) and S. Bradleigh Vinson, Maria D. Guzman, Douglas F. Wunneburger, and Walter C. Daugherity (Co-PI's); competitive and peerreviewed; January 1998-December 1998; \$50,000.
"Special Topics in Computer Science Concepts and Programming"; Academy for Advanced Telecommunications and Learning Technologies; Walter C. Daugherity; competitive and peer-reviewed; June 1998-May 1999; \$5,000 (Daugherity 100\%).
"Object Modeling Techniques Support for National Simulation Center Tactical Directorate"; U. S. Army through prime contractor Cubic Applications, Inc.; Walter C. Daugherity, James A. Wall, and José Salinas; competitive; September 1998-April 1999; \$74,498 (Daugherity 20\%).
"The Fire Ant Spatial Information Management System (FASIMS)"; Texas Department of Agriculture, Texas Imported Fire Ant Research and Management Plan; Robert N. Coulson (PI) and Douglas F. Wunneburger, S. Bradleigh Vinson, and Walter C. Daugherity (Co-PI's); competitive and peer-reviewed; 1999-2001; \$220,000.
"Evaluating the Impact of Southern Pine Beetle on Ecologically Sustainable Forest Management"; USDA Forest Service; Robert N. Coulson and Walter C. Daugherity; 1 graduate student and 1 undergraduate student; competitive and peer-reviewed; 2000-2003, \$90,000.
"Honey Bee Initiative"; State of Texas; Robert N. Coulson (PI), Walter C. Daugherity (Consultant); 2 graduate students; competitive; September 2001August 2002; \$40,000.
"Increasing Computer Science Retention by Developing and Deploying SelfPaced Learning Modules"; State of Texas; Jennifer Welch and Frank Shipman (Co-PI's), Lawrence Petersen, Walter C. Daugherity, and Lauren Cifuentes (Key Personnel); 10 undergraduate students; competitive; June 2002-August 2004; \$422,692.
"Facilitating the Transition to Java in High School Computer Programming Classes"; Texas A\&M University System Academy for Educator Development; Walter C. Daugherity; 1 graduate student; competitive and peerreviewed; December 2003-September 2004; \$2,966 (Daugherity 100\%).
"Instructional Technology Enhancements for Computer Teaching Labs," Texas A\&M University, Walter C. Daugherity, competitive, January 2004-August 2004, \$20,000 (Daugherity 100\%).
"Increasing Computer Science Retention with Peer Teachers and Learning Modules"; State of Texas; Valerie Taylor and Jennifer Welch (Co-PI's), Lawrence Petersen, Walter C. Daugherity, and Joseph Hurley (Key Personnel); undergraduate students; competitive; September 2004-August 2005; \$173,158.

Cumulative total: \(\mathbf{\$ 2 , 8 4 5 , 8 0 1}\)
5. Research Proposals

Note: Funded proposals are listed in section 4 above.
"Automated Support for VLSI Standard Cell Optimization," Texas Advanced Technology Program, Walter C. Daugherity, competitive and peer-reviewed, July 1989, not funded, \(\$ 233,887\).
"Integration of Computer Software Models for NiCd Battery Design," National Aeronautics and Space Administration, Ralph E. White and Walter C.
Daugherity, competitive and peer-reviewed, 1990, not funded, \(\$ 125,000\).
"Innovative Use of Supercomputers and Parallel Computers in Grades K-8," Department of Energy, Paul Nelson, Walter C. Daugherity and Bahram Nassersharif, competitive and peer-reviewed, December 1990, preproposal submitted, \(\$ 885,000\).
"Integration of Texas Junior Colleges into State and National Computer Networks," Texas Advanced Technology Program, Walter C. Daugherity and Charles H. Beard, competitive and peer-reviewed, July 1991, not funded, \$174,219.
"Adaptive Fuzzy Control for Industrial Processes," Texas Advanced Research Program, John Yen and Walter C. Daugherity, competitive and peer-reviewed, July 1991, not funded, \$177,064.
"Development of a Fuzzy Logic Tuner for a PID Controller," Texaco, John Yen and Walter C. Daugherity, 1992-93, not funded, \$200,000.
"National Center For Ecological Analysis and Synthesis," National Science Foundation; Robert N. Coulson, Walter C. Daugherity et al., competitive and peer-reviewed, July 1994, not funded, \(\$ 10,000,000\).
"Development of a Fungal Growth Model for Risk Assessment," Texas Advanced Research Program, Charles M. Kenerley and Walter C. Daugherity, competitive and peer-reviewed, July 1995, not funded, \$203,792.
"Intelligent Vehicle Navigation System," Texas Advanced Technology Program, Walter C. Daugherity and Jeffrey W. Fitzgerald, competitive and peer-reviewed, July 1995, not funded, \(\$ 195,058\).
"Innovative Programs to Increase the Enrollment in Computer Science," Texas Technology Workforce Development Grant Program, Valerie Taylor and Frank Shipman (co-PI's), Lawrence Petersen, Walter C. Daugherity, and Joseph Hurley (Key Personnel), competitive and peer-reviewed, March 2005, pending, \$69,760.
6. New Design Methods, Techniques, or Concepts Developed

Null Modem
I independently invented the null modem in 1969 and constructed one for Harvard University (which is still operational!).
Computer Keyboard National Standard
As a member of the Harvard-MIT Terminal Committee, I participated in the development of the national standard for computer keyboards (e.g., putting braces above brackets for the benefit of programming languages). Nearly every computer terminal and keyboard since then (e.g., VT100, PC) uses this layout.

Integrated User Training
I invented the method of training users about additional features of an application program by integrating the information with the operation of the program (see Manwell, Daugherity, et al. under Publications, above). This is now widely adopted, e.g., by Microsoft for its Windows operating systems in the "Getting Started" panel.
Object-Oriented Database I independently invented and implemented an object-oriented database to support arbitrary combinations of data types.
Self-Organizing Fuzzy Controller
In collaboration with Balaji Rathakrishnan (a Graduate Research Assistant I funded) and John Yen, I developed a new systematic methodology for constructing and tuning fuzzy logic controllers. The research project was funded by Texaco (see the preceding section for details) for use in its refineries.

\section*{TEACHING}

\section*{1. New Courses Developed}

CPSC 111/211/311 Java and C-based sequence - Member of curriculum subcommittee, taught 111 and 211
CPSC 210 (Honors) - Data Structures
CPSC 320 (Honors) - Artificial Intelligence
CPSC 489 - Object-Oriented Programming, Systems, and Languages
CPSC 635 - Natural Language Processing (taught by Dr. P. Mayer)
CPSC 689 - Symbolic and Algebraic Computation (not taught)
CSCE 489/PHIL 382 (with Glen Miller [PHIL]) - Ethics and Cybertechnology
ENGR/PHIL 482 (Honors) - Ethics and Engineering
PHIL 282 (with Glen Miller [PHIL]) - Ethics in a Digital Age
PHYS/ELEN 674 (with David Church [PHYS]) - Special Topics in Quantum Computing (the first course at Texas A\&M in quantum computing, and, to the best of my knowledge, the first course in quantum computing anywhere in Texas), taught Spring, 2005, for the fifth time.
A Distance Learning section of CPSC 601 - Programming in C and Java, taught Spring, 2003.
Two sections of CPSC 111 - Computer Science Concepts and Programming taught with student peer teachers as assistants, Fall, 2002.
Honors section of CPSC 111 - Computer Science Concepts and
Programming taught with student peer teachers as assistants, Fall, 2004.
Developed (with Lawrence Petersen) an intensive summer training program in Java and Software Engineering for high-school computer science teachers, taught Summer, 2003.
Developing an intensive summer training program in Data Structures for high-school computer science teachers, taught Summer, 2004; I was also completely responsible for recruiting teachers, getting them admitted, arranging for housing, and so on.
2. Courses Taught

\section*{A. Graduate}

CPSC 601 Programming in C and Java
CPSC 602 Object-Oriented Programming, Development, and Software Engineering
CPSC 614 Computer
Architecture CPSC 625 Artificial

Intelligence CPSC 632 Expert
Systems
CPSC 681 Graduate Seminar
CPSC 685 Problems
CPSC 691 Research
PHYS/ELEN 674 Quantum Computing (co-teacher)
B. Undergraduate

CPSC 111 Computer Science Concepts and Programming
CPSC 111H Computer Science Concepts and Programming (Honors)
CPSC \(120 \quad\) Programming II
CPSC 120 H Programming II (Honors)
CPSC 203 Introduction to Computing
CPSC 206 Structured Programming in C
CPSC 210 Data Structures
CPSC 210 H Data Structures (Honors)
CPSC 211 Data Structures and Implementations
CPSC 211H Data Structures and Implementations (Honors)
CPSC 285 Special Topics - Data Structures for Teachers
CPSC 289 Special Topics - Java and Software Engineering for Teachers
CPSC 311 Analysis of Algorithms
CPSC 320/420 Artificial Intelligence
CPSC \(320 \mathrm{H} / 420 \mathrm{H}\) Artificial Intelligence (Honors)
CPSC 321 Computer Architecture
CPSC 464 Integrated Systems Design Automation
CPSC 485 Problems
CPSC/ELEN 485H Problems (Honors theses)
CPSC 489 Object-Oriented Programming, Systems, and Languages
CSCE 113 Intermediate Programming and Design
CSCE 121 Introduction to Program Design and Concepts
CSCE 121H Introduction to Program Design and Concepts (Honors)
CSCE 315 Programming Studio
CSCE 410 Operating Systems
CSCE 489 Cyberethics (co-teacher)
ENGR 112 Foundations of Engineering II
ENGR 112H Foundations of Engineering II (Honors)
ENGR/PHIL 482H Ethics and Engineering (Honors)

\section*{PROFESSIONAL OUTREACH}
1. Director, Knowledge Systems Research Center
2. Invited Significant Seminars or Lectures

Daugherity, W. C., "Computers and Privacy," Phi Theta Kappa Honor Society State Convention, Blinn College, Brenham, Texas, 1985.

Daugherity, W. C., and DeSoi, J. F., "Objected-Oriented Programming," Second Annual Texaco Artificial Intelligence Symposium, Houston, Texas, 1989.

Daugherity, W. C., "A Self-Tuning Fuzzy Controller," ARRI Conference on Fuzzy Logic, Arlington, Texas, March 1992.

Daugherity, W. C., Yen, J., and Langari, R., "Tutorial on Fuzzy Logic," Second International Workshop on Industrial Fuzzy Control \& Intelligent Systems, College Station, Texas, December 1992.

Daugherity, W.C., "A Partially Self-Training System for the Protein Folding Problem," World Congress on Neural Networks, Portland, Oregon, July 1993.

Daugherity, W.C., "Neuro-fuzzy Systems," Third International Workshop on Industrial Fuzzy Control \& Intelligent Systems, Houston, Texas, December 1993.

Daugherity, W.C. and Harris, C.E., "Ethics and Engineering," NSF Research Experience for Undergraduates, College Station, Texas, Summer 1994.

Daugherity, W.C. and Harris, C.E., "Ethics and Engineering," NSF Research Experience for Undergraduates, Austin, Texas, Summer 1994.

Daugherity, W.C. and Harris, C.E., "Ethics and Engineering," NSF Research Experience for Undergraduates, College Station, Texas, Summer 1995.

Daugherity, W.C. and Harris, C.E., "Ethics and Engineering," NSF Research Experience for Undergraduates, Austin, Texas, Summer 1995.

Daugherity, W.C., "Public-Key Cryptography Meets Quantum Computing: Why Secret Agencies are Quaking in their Boots." Quantum Computing Seminar, Texas A\&M University, April 9, 2001.

Daugherity, W.C., "Quantum Computing 101: How to Crack RSA." DefCon X, Las Vegas, NV, August 4, 2002.

Daugherity, W.C., "Computer Ethics." ENGR 482 Ethics and Engineering, Texas A\&M University, April 14-16, 2003.

Daugherity, W.C., "Incorporating Computer Ethics into an Engineering Ethics Course." University of Texas Ethics Conference, Austin, Texas, April 16, 2004.

Daugherity, W.C., "Computer Ethics." ENGR 482 Ethics and Engineering, Texas A\&M University, November 8-10, 2004.

Daugherity, W.C., "[My] 53 Years of Computing History," CSCE 681 Open Graduate Seminar, Texas A\&M University, November 18, 2015.
3. Consulting

St. Joseph's Hospital, Bryan, Fall 1990, at no charge.
Other clients include IBM Federal Systems Division, New York Times, Washington Post, Los Angeles Times, Cheyenne and Arapaho Tribes of Oklahoma, Southwestern Bell Telephone, Fulbright \& Jaworski (Houston), Texas Department of Agriculture, Phonogram B.V. (Amsterdam), and U. S. Department of the Treasury.

\section*{HONORS AND AWARDS}

Oklahoma Junior Academy of Science, elected to membership, 1961, Oklahoma State University
National Science Foundation, Institute for High Ability Secondary
School Students, 1962, University of Oklahoma
Westinghouse, Science Talent Search national finalist,
1963 National Merit Scholarship test, highest score in
Oklahoma, 1963 Frontiers of Science, scholarship, 1963,
Oklahoma City, Oklahoma
Engineering Club of Oklahoma City, award, 1963, Oklahoma
City, Oklahoma Oklahoma Christian College, full scholarship (top entering freshman), 1963,

Oklahoma City, Oklahoma
National Science Foundation, Undergraduate Research Participation Program, 1965, University of Oklahoma, Norman, Oklahoma Alpha Delta Tau, National Honor Society, 1966
Who's Who in American Colleges and
Universities, 1966 Graduate Record Exam in

Mathematics, scored 800, 1966 Harvard
University, Prize Fellowship, 1966
National Science Foundation, Academic Year
Institute, 1967 Phi Delta Kappa, National Honor
Society, 1967
Harvard University, Class Marshal for the Graduate School of Education, 1967 Harvard University, Bowdoin Prize, bronze medal and cash award for outstanding writing, 1973
Association for Computing Machinery, selected as a reviewer for Computing Reviews, 1975
Association for Computing Machinery, Outstanding Regional Intercollegiate Programming Contest Director Award, 1993, Indianapolis, Indiana
World Congress on Neural Networks, Neural Systems Session Cochair, 1993, Portland, Oregon
Graduate Student Council, 1997 Outstanding Graduate Faculty Award citation: "For your time and dedication to graduate students at Texas A\&M."
Named by the TAMU System to The Academy for Educator Development, a major component of The Texas A\&M University System's Regents' Initiative for Excellence in Education, 2003 (one of only two faculty members selected from the entire College of Engineering).
Winner, \(\$ 500\) cash prize, Texas A\&M University Academic Integrity Week Essay Competition (Faculty Category), 2004.
Texas A\&M University, Department of Computer Science \& Engineering, 2009 Undergraduate Faculty Award citation: "In grateful appreciation of dedicated service, exemplary attitude, and significant contribution."
Qualified for American MENSA, 2015.
Oklahoma Christian University, Department of Mathematics and Computer Science, 2015 Distinguished Alumnus Award citation: "For outstanding vision, dedication, and commitment to excellence."

\section*{EXHIBIT B}

Number of ballot rejections due to configuration and/or print quality issues, by vote center.

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\section*{EXHIBIT C}

Number of check-ins and ballots reported, by vote center, and whether the vote center results were used ("Memory Cards") or not ("Central Count"). The two vote centers which commingled cast ballots and unscannable ("Door 3") ballots are indicated.
\begin{tabular}{|c|c|c|c|c|}
\hline \multicolumn{5}{|c|}{Exhibit: RECONCILIATION} \\
\hline Vote Center & Check-ins & Reported Ballots & Variance (Potential Fled, EV Checkin, Prov Voter) & Official Results / Source of Reporting \\
\hline Academies at South Mtn 12716* & 591 & 589 & -2 & Central Count \\
\hline Aguila Fire Department 14489 * & 63 & 62 & -1 & Memory Cards \\
\hline Aire Libre School 10619 * & 452 & 452 & 0 & Memory Cards \\
\hline All Saints Lutheran Church 11820 * & 1,582 & 1580 & -2 & Central Count \\
\hline Altrain Medical and Dental Center 15728 * & 595 & 595 & 0 & Central Count \\
\hline Asante Library 15723 * & 978 & 979 & 1 & Memory Cards \\
\hline Ascension Lutheran Church 11244 * & 1,023 & 1023 & 0 & Memory Cards \\
\hline ASU Downtown Campus 15719 * & 727 & 727 & 0 & Memory Cards \\
\hline ASU Polytechnic Campus 15642 * & 1,886 & 1886 & 0 & Memory Cards \\
\hline ASU Sun Devil Fitness Center 15566 * & 1,538 & 1528 & -10 & Central Count \\
\hline ASU West Campus 15105 * & 1,243 & 1243 & 0 & Memory Cards \\
\hline Avondale City Hall 14886 * & 1,518 & 1517 & -1 & Memory Cards \\
\hline Biltmore Fashion Park 15667 * & 1,229 & 1228 & -1 & Central Count \\
\hline Black Mountain Baptist Church 14509 * & 807 & 807 & 0 & Central Count \\
\hline Bridgeway Community Church 14295 * & 1,560 & 1560 & 0 & Memory Cards \\
\hline Brophy College Prep 12897 & 665 & 665 & 0 & Memory Cards \\
\hline
\end{tabular}
\begin{tabular}{|l|r|r|r|l|}
\hline Buckeye City Hall 14044 * & 1,149 & 1150 & 1 & Memory Cards \\
\hline \begin{tabular}{l} 
Buckeye Fire Station 704 \\
\(15621^{*}\)
\end{tabular} & 503 & 503 & 0 & Memory Cards \\
\hline Burton Barr Library \(11405^{*}\) & 1,167 & 1167 & 0 & Memory Cards \\
\hline Cactus High School 11363 * & 1,493 & 1490 & -3 & Central Count \\
\hline \begin{tabular}{l} 
Calvary Free Lutheran Ch \\
\(14432^{*}\)
\end{tabular} & 1,275 & 1275 & 0 & Memory Cards \\
\hline \begin{tabular}{l} 
Camelback Christian Church \\
\(10360^{*}\)
\end{tabular} & 950 & 950 & 0 & Memory Cards \\
\hline \begin{tabular}{l} 
Carefree Town Council \\
Center 15585 *
\end{tabular} & 1,270 & 1270 & 0 & Memory Cards \\
\hline \begin{tabular}{l} 
Cartwright Sch Dist Annex \\
\(13694^{*}\)
\end{tabular} & 397 & 397 & 0 & 0 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|}
\hline \multicolumn{5}{|c|}{Exhibit: RECONCILIATION} \\
\hline Vote Center & Check-ins & Reported Ballots & \begin{tabular}{l}
Variance \\
(Potential Fled, EV Checkin, Prov Voter)
\end{tabular} & Official Results / Source of Reporting \\
\hline Cave Creek Town Hall
\[
12226 \text { * }
\] & 1,021 & 1021 & 0 & Memory Cards \\
\hline Central Christian Church/Gilbert 15407 * & 1,342 & 1342 & 0 & Memory Cards \\
\hline Central Christian Church/Mesa 11901 * & 1,711 & 1707 & -4 & Memory Cards \\
\hline Chandler Bible Church 13836 * & 1,472 & 1472 & 0 & Memory Cards \\
\hline Chandler City Hall 15551 * & 1,426 & 1426 & 0 & Memory Cards \\
\hline Chandler Gilbert Comm College 13905 * & 1,589 & 1589 & 0 & Memory Cards \\
\hline Chandler Nature Center 15486 * & 1,870 & 1870 & 0 & Memory Cards \\
\hline Chandler United Methodist Church 15416 * & 1,296 & 1293 & -3 & Memory Cards \\
\hline Chandler USD Office 10003 & 857 & 857 & 0 & Memory Cards \\
\hline Charles W Harris School 10958 * & 399 & 399 & 0 & Memory Cards \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|}
\hline Christ the Redeemer Luth Ch 12667 * & 795 & 793 & -2 & Central Count \\
\hline Christian Community Church * & 747 & 748 & 1 & Central Count \\
\hline Church At Litchfield Park 10647 * & 1,565 & 1564 & -1 & Memory Cards \\
\hline Church of Jesus Christ LDS 15090 * & 1,749 & 1749 & 0 & Memory Cards \\
\hline Church of Jesus Christ LDS 15592 * & 1,553 & 1553 & 0 & Memory Cards \\
\hline Church Of Jesus Christ Of LDS 10895 * & 994 & 994 & 0 & Memory Cards \\
\hline Church Of Jesus Christ Of LDS 14326 * & 1,861 & 1861 & 0 & Memory Cards \\
\hline Church Of Jesus Christ Of LDS 14357 * & 1,480 & 1478 & -2 & Central Count \\
\hline Church Of Jesus Christ Of LDS 15216 * & 1,834 & 1834 & 0 & Central Count \\
\hline Church Of Jesus Christ Of LDS 15268 * & 1,506 & 1506 & 0 & Central Count \\
\hline Church Of Jesus Christ Of LDS 15595 * & 661 & 661 & 0 & Central Count / Comingled Site \\
\hline Church Of The Beatitudes
\[
13020 \text { * }
\] & 1,269 & 1269 & 0 & Memory Cards \\
\hline Community of Christ 14168 & 1,062 & 1062 & 0 & Memory Cards \\
\hline
\end{tabular}
\begin{tabular}{|l|r|r|r|l|}
\hline \multicolumn{5}{|c|}{ Exhibit: RECONCILIATION } \\
\hline Vote Center & & \multicolumn{4}{|c|}{\begin{tabular}{c} 
Variance \\
Reported \\
Ballots
\end{tabular}} & \begin{tabular}{c} 
(Potential Fled, EV Checkin, \\
Prov Voter)
\end{tabular} & \begin{tabular}{c} 
Official Results / Source of \\
Reporting
\end{tabular} \\
\hline \begin{tabular}{l} 
Community Of Christ \\
Church 10756 *
\end{tabular} & 859 & 859 & 0 & Memory Cards \\
\hline \begin{tabular}{l} 
Communiversity QC 15675 \\
\(*\)
\end{tabular} & 1,959 & 1959 & 0 & Central Count \\
\hline Compass Church 15355 * & 1,022 & 1022 & 0 & Memory Cards \\
\hline \begin{tabular}{l} 
Copper Canyon School \\
\(13237 ~ *\)
\end{tabular} & 1,556 & 1556 & 0 & Memory Cards \\
\hline \begin{tabular}{l} 
Copper Hills Church/ \\
Westwing 15558 *
\end{tabular} & 1,811 & 1810 & -1 & Central Count \\
\hline \begin{tabular}{l} 
Cortez High School (\#205) \\
\(12814 ~ *\)
\end{tabular} & 493 & 493 & 0 & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|}
\hline Cottonwood Country Club
12407 * & 502 & 502 & 0 & Memory Cards \\
\hline David Crockett School
\(11380^{*}\) & 919 & 917 & -2 & Central Count \\
\hline \begin{tabular}{l}
Dayspring United \\
Methodist Church 11884 *
\end{tabular} & 1,587 & 1587 & 0 & Memory Cards \\
\hline Deer Valley Airport 12875* & 1,360 & 1354 & -6 & Memory Cards \\
\hline Deer Valley Lutheran Church 12740 * & 1,089 & 1089 & 0 & Memory Cards \\
\hline Deer Valley USD Office
\[
11462 \text { * }
\] & 552 & 551 & -1 & Memory Cards \\
\hline Desert Christian Fellowship
\[
12662 \text { * }
\] & 1,040 & 1027 & -13 & Memory Cards \\
\hline Desert Foothills United Meth Ch 13953 * & 613 & 613 & 0 & Memory Cards \\
\hline Desert Hills Community Church 12362 * & 1,624 & 1623 & -1 & Central Count / Comingled Site \\
\hline Desert Oasis Aquatic Center 13838* & 1,015 & 1015 & 0 & Memory Cards \\
\hline Dist 6 Community Service Center 12215 * & 138 & 138 & 0 & Memory Cards \\
\hline Dist 7 Community Service Center 13856 * & 224 & 224 & 0 & Memory Cards \\
\hline Dove Of The Desert UMC 13869 * & 1,714 & 1707 & -7 & Memory Cards \\
\hline Dream City Church Phoenix 12800 * & 1,069 & 1066 & -3 & Memory Cards \\
\hline Dream City Church Scottsdale 15151* & 1,663 & 1663 & 0 & Central Count \\
\hline Dysart Community Center
\[
15203 \text { * }
\] & 428 & 428 & 0 & Memory Cards \\
\hline El Mirage City Hall 12350 * & 1,184 & 1184 & 0 & Memory Cards \\
\hline
\end{tabular}
\begin{tabular}{|l|r|r|r|l|}
\hline \multicolumn{6}{|c|}{ Exhibit: RECONCILIATION } \\
\hline Vote Center & Check-ins & \begin{tabular}{c} 
Reported \\
Ballots
\end{tabular} & \begin{tabular}{c} 
Variance \\
(Potential Fled, EV Checkin, \\
Prov Voter)
\end{tabular} & \begin{tabular}{c} 
Official Results / Source of \\
Reporting
\end{tabular} \\
\hline \begin{tabular}{l} 
El Tianguis Mercado 15521 \\
\(*\)
\end{tabular} & 1,134 & 1134 & 0 & Memory Cards \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|}
\hline Eldorado Park Community Center 11564 * & 1,402 & 1401 & -1 & Memory Cards \\
\hline Envision Community Center 15682 * & 1,284 & 1284 & 0 & Memory Cards \\
\hline Escalante Community Center Tempe 12165 * & 605 & 605 & 0 & Memory Cards \\
\hline Estrella Foothills High School 14506 * & 1,120 & 1120 & 0 & Memory Cards \\
\hline Estrella Mnt School/Goodyear 12234 * & 496 & 496 & 0 & Memory Cards \\
\hline Estrella Mountain Comm College 14218 * & 1,553 & 1545 & -8 & Central Count \\
\hline Faith Baptist Church 10492 & 1,011 & 1011 & 0 & Memory Cards \\
\hline Faith Lutheran Church 12773 * & 1,309 & 1309 & 0 & Memory Cards \\
\hline First Baptist Church Chandler 15277 * & 1,483 & 1484 & 1 & Memory Cards \\
\hline First UMC of Gilbert 11932 * & 1,165 & 1165 & 0 & Memory Cards \\
\hline Flite Goodyear 15705 * & 268 & 267 & -1 & Memory Cards \\
\hline Florence Ely Nelson Desert Park 14227 * & 1,460 & 1460 & 0 & Memory Cards \\
\hline Footprint Center * & 605 & 605 & 0 & Memory Cards \\
\hline Fort McDowell Indian Comm 12015 * & 635 & 635 & 0 & Memory Cards \\
\hline Fountain Hills Community Center 14400 * & 1,688 & 1688 & 0 & Memory Cards \\
\hline Fowler School 10403 * & 717 & 715 & -2 & Central Count \\
\hline Gateway Fellowship Chr/Sbc 14864 * & 1,928 & 1928 & 0 & Memory Cards \\
\hline GCC North Chinle Bldg 14225 * & 2,087 & 2088 & 1 & Memory Cards \\
\hline Gila Bend School Dist 10438 & 136 & 136 & 0 & Memory Cards \\
\hline Gilbert Freestone Rec Center 14669 * & 1,658 & 1658 & 0 & Memory Cards \\
\hline Gilbert Presbyterian Church 12354 * & 1,311 & 1311 & 0 & Central Count \\
\hline
\end{tabular}
\begin{tabular}{|l|r|r|l|l|}
\hline \begin{tabular}{l} 
Gilbert Public Works N Ctr \\
\(15720^{*}\)
\end{tabular} & 1,226 & 1226 & 0 & Memory Cards \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|}
\hline \multicolumn{5}{|c|}{Exhibit: RECONCILIATION} \\
\hline Vote Center & Check-ins & Reported Ballots & Variance (Potential Fled, EV Checkin, Prov Voter) & Official Results / Source of Reporting \\
\hline Glendale Christian Church 10098 * & 754 & 753 & -1 & Memory Cards \\
\hline Glendale Comm College 10378 * & 1,383 & 1378 & -5 & Central Count \\
\hline Glendale M and Ministry Ctr 10381 * & 444 & 444 & 0 & Memory Cards \\
\hline Goelet A.C. Beuf Comm Ctr 15144 * & 1,513 & 1513 & 0 & Memory Cards \\
\hline Golden Gate Community Center 11593 * & 637 & 637 & 0 & Memory Cards \\
\hline Goodyear City Hall (NEW)
15724 * & 1,046 & 1045 & -1 & Memory Cards \\
\hline Goodyear City Hall 12921 * & 443 & 443 & 0 & Memory Cards \\
\hline Grace In The Desert Adv Ch 11988 * & 1,361 & 1359 & -2 & Central Count \\
\hline Grace United Methodist Church 11634 * & 1,423 & 1401 & -22 & Central Count \\
\hline Granada West Elementary School 12039 * & 479 & 479 & 0 & Memory Cards \\
\hline Happy Trails Resort 12154 * & 1,900 & 1900 & 0 & Memory Cards \\
\hline Hi-Way Baptist Chuch 14286* & 1,536 & 1535 & -1 & Memory Cards \\
\hline Holiday Park School 10574 * & 283 & 283 & 0 & Memory Cards \\
\hline Holy Trinity GOC11868 * & 971 & 971 & 0 & Memory Cards \\
\hline Horizon Community Center 13859 * & 2,599 & 2596 & -3 & Memory Cards \\
\hline Horizon Presbyterian Church 13877 * & 1,391 & 1391 & 0 & Memory Cards \\
\hline IBEW Local 640 Electrical Wrk 11651 * & 345 & 345 & 0 & Memory Cards \\
\hline
\end{tabular}
\begin{tabular}{|l|r|r|r|l|}
\hline \begin{tabular}{l} 
Indian Bend Wash Visitor \\
Ctr \(11490^{*}\)
\end{tabular} & 756 & 756 & 0 & Memory Cards \\
\hline \begin{tabular}{l} 
Islamic Center East Valley \\
\(15717^{*}\)
\end{tabular} & 1,049 & 1049 & 0 & Memory Cards \\
\hline \begin{tabular}{l} 
Islamic Center Scottsdale \\
\(15170^{*}\)
\end{tabular} & 1,466 & 1466 & 0 & Memory Cards \\
\hline \begin{tabular}{l} 
Islamic Community Ctr of \\
Phx 11449 *
\end{tabular} & 723 & 723 & 0 & Central Count \\
\hline \begin{tabular}{l} 
James W Rice School 14820 \\
\(*\)
\end{tabular} & 305 & 305 & 0 & Memory Cards \\
\hline Journey Church \(15731^{*}\) & 1,503 & 1499 & -4 & Memory Cards \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|}
\hline \multicolumn{5}{|c|}{Exhibit: RECONCILIATION} \\
\hline Vote Center & Check-ins & Reported Ballots & Variance (Potential Fled, EV Checkin, Prov Voter) & Official Results / Source of Reporting \\
\hline Kaka Village Comm Center 13481 * & 20 & 20 & 0 & Memory Cards \\
\hline Knights of Pythias Lodge 15359 * & 398 & 398 & 0 & Central Count \\
\hline LakesRecCtr @ WestbrookVillage 12187 * & 1,204 & 1204 & 0 & Memory Cards \\
\hline Laveen Baptist Church 11622 * & 1,386 & 1386 & 0 & Memory Cards \\
\hline Laveen Elem Sch Dist 13770 & 901 & 901 & 0 & Memory Cards \\
\hline Liberty ESD Office 15469 * & 487 & 487 & 0 & Memory Cards \\
\hline Lifeway Church 14884 * & 1,155 & 1155 & 0 & Memory Cards \\
\hline Light And Life Church 12903 & 989 & 986 & -3 & Central Count \\
\hline Litchfield Park First Baptist Ch 11682 * & 918 & 918 & 0 & Memory Cards \\
\hline Litchfield Support Svcs Bldg A 15578 * & 1,179 & 1180 & 1 & Memory Cards \\
\hline Living Water Lutheran Church 14773 * & 923 & 923 & 0 & Memory Cards \\
\hline Living Word Bible Church Ahw 14988 * & 1,832 & 1832 & 0 & Memory Cards \\
\hline Love Of Christ Lutheran Chr 13196 * & 1,596 & 1594 & -2 & Central Count \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|}
\hline Loyal Order of the Moose Lodge 10238 * & 738 & 738 & 0 & Memory Cards \\
\hline Madison Baptist Church 12807 * & 1,104 & 1104 & 0 & Central Count \\
\hline Maricopa County Cooperative Ext 11621 * & 576 & 576 & 0 & Memory Cards \\
\hline Marley Park 15349 * & 1,780 & 1780 & 0 & Memory Cards \\
\hline Maryvale Bridge UMC
\[
10074 \text { * }
\] & 403 & 403 & 0 & Memory Cards \\
\hline McQueen Park Activity Center 13939 * & 1,105 & 1105 & 0 & Memory Cards \\
\hline Memorial Presbyterian Church 11316 * & 1,466 & 1466 & 0 & Memory Cards \\
\hline Mesa Baptist Church 12082 & 2,405 & 2405 & 0 & Memory Cards \\
\hline Mesa Comm College Red Mtn 14202 * & 1,729 & 1729 & 0 & Memory Cards \\
\hline Mesa Convention Center 15634 * & 1,743 & 1742 & -1 & Memory Cards \\
\hline Mesquite Groves Aquatic Center 15622 * & 889 & 889 & 0 & Memory Cards \\
\hline
\end{tabular}
\begin{tabular}{|l|r|r|r|l|}
\hline \multicolumn{5}{|c|}{ Exhibit: RECONCILIATION } \\
\hline Vote Center & Check-ins & \begin{tabular}{c} 
Reported \\
Ballots
\end{tabular} & \begin{tabular}{c} 
Variance \\
(Potential Fled, EV Checkin, \\
Prov Voter)
\end{tabular} & \begin{tabular}{r} 
Official Results / Source of \\
Reporting
\end{tabular} \\
\hline \begin{tabular}{l} 
Messinger Mortuary 14396 \\
R
\end{tabular} & 1,489 & 1489 & 0 & Central Count \\
\hline \begin{tabular}{l} 
Mount Calvary Baptist \\
Church 11109 *
\end{tabular} & 1,077 & 1077 & 0 & Memory Cards \\
\hline \begin{tabular}{l} 
Mountain Park Health \\
Center 15680 *
\end{tabular} & 1,328 & 1328 & 0 & Central Count \\
\hline \begin{tabular}{l} 
Mountain Park Maryvale \\
Clinic 15584 *
\end{tabular} & 329 & 329 & 0 & Memory Cards \\
\hline \begin{tabular}{l} 
Mountain View Park Comm \\
Ctr 10982 *
\end{tabular} & 1,586 & 1586 & 0 & Mentral Count \\
\hline Mountain View School * & 958 & 958 & 0 & Memory Cards \\
\hline \begin{tabular}{l} 
Mountain Vista \\
Club/Vistancia 15511 *
\end{tabular} & 1,507 & 1504 & -3 & Memory Cards \\
\hline \begin{tabular}{l} 
Murphy ESD Education \\
Center 15616 *
\end{tabular} & 395 & 395 & 0 & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|}
\hline Nadaburg School District Office 15282 * & 745 & 745 & 0 & Central Count \\
\hline North Phx Bap Ch PV Campus 10769 * & 1,051 & 1047 & -4 & Memory Cards \\
\hline North Scottsdale UMC
\[
12219 \text { * }
\] & 1,292 & 1292 & 0 & Memory Cards \\
\hline North Valley Free Will Bap Ch 14098 * & 871 & 871 & 0 & Memory Cards \\
\hline Nozomi Aquatic Center 15494 * & 879 & 879 & 0 & Memory Cards \\
\hline Oasis Community Church
\[
12913 \text { * }
\] & 1,451 & 1451 & 0 & Memory Cards \\
\hline Outlets at Anthem 15607 * & 1,929 & 1929 & 0 & Memory Cards \\
\hline Palm Lane School 10248 * & 236 & 236 & 0 & Memory Cards \\
\hline Palm Ridge Recreation Center 13302 & 786 & 786 & 0 & Central Count \\
\hline Paradise Valley Comm College 12103 * & 2,205 & 2205 & 0 & Memory Cards \\
\hline Paradise Valley Town Hall 13977 * & 993 & 993 & 0 & Memory Cards \\
\hline Peace Lutheran Church 13888 * & 1,460 & 1461 & 1 & Memory Cards \\
\hline Pendergast ESD Office 10055 * & 1,560 & 1560 & 0 & Memory Cards \\
\hline Perry Branch Library/Gilbert 15308 * & 1,536 & 1536 & 0 & Memory Cards \\
\hline Phoenix Art Museum 15729 & 1,017 & 1017 & 0 & Memory Cards \\
\hline Phoenix Laestadian Luth Ch12449 * & 1,575 & 1575 & 0 & Memory Cards \\
\hline
\end{tabular}
\begin{tabular}{|l|r|r|r|l|}
\hline \multicolumn{5}{|c|}{ Exhibit: RECONCILIATION } \\
\hline Vote Center & Check-ins & \begin{tabular}{c} 
Reported \\
Ballots
\end{tabular} & \begin{tabular}{c} 
Variance \\
(Potential Fled, EV Checkin, \\
Prov Voter)
\end{tabular} & \begin{tabular}{c} 
Official Results / Source of \\
Reporting
\end{tabular} \\
\hline \begin{tabular}{l} 
Phoenix Union HS Dist \\
\(14187^{*}\)
\end{tabular} & 862 & 862 & 0 & Memory Cards \\
\hline \begin{tabular}{l} 
Praise And Worship Center \\
\(15523 *\)
\end{tabular} & 1,253 & 1253 & 0 & Central Count \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|}
\hline Progressive Baptist Church 11145 * & 815 & 815 & 0 & Central Count \\
\hline Pyle Adult Recreation Center 11072 * & 1,161 & 1160 & -1 & Memory Cards \\
\hline Queen Creek Library 15550 & 2,259 & 2255 & -4 & Central Count \\
\hline Radiant Church Sun City
\(10371^{*}\) & 1,392 & 1390 & -2 & Memory Cards \\
\hline Salt River Pima Community Center 10580 * & 809 & 809 & 0 & Memory Cards \\
\hline San Lucy Dist Admin Bldg 13851* & 37 & 37 & 0 & Memory Cards \\
\hline San Tan Village Mall 15664 & 1,416 & 1415 & -1 & Central Count \\
\hline Save the Family 15726 * & 804 & 804 & 0 & Central Count \\
\hline Scottsdale Elks Ldg Pboe \#2148 11966 * & 1,554 & 1553 & -1 & Memory Cards \\
\hline Scottsdale Worship Center 10215 * & 1,778 & 1775 & -3 & Central Count \\
\hline SE Regional Library Gilbert 10443 * & 1,953 & 1952 & -1 & Memory Cards \\
\hline Second Ch Of Christ Scientist 11731* & 905 & 905 & 0 & Memory Cards \\
\hline Sevilla Elementary School 10432 * & 702 & 702 & 0 & Memory Cards \\
\hline Shadow Mountain High School 12774 * & 1,535 & 1526 & -9 & Central Count \\
\hline Shadow Rock Church 12771 & 945 & 945 & 0 & Memory Cards \\
\hline Shepherd Of The Hills UMC 10287 * & 1,222 & 1222 & 0 & Memory Cards \\
\hline Sheriff Posse of SCW * & 933 & 933 & 0 & Memory Cards \\
\hline Skyway Church - West Valley 15022 * & 684 & 684 & 0 & Memory Cards \\
\hline South Phoenix Baptist Church 10611 * & 596 & 596 & 0 & Memory Cards \\
\hline Spirit Of Grace Lutheran Church 13927 * & 1,089 & 1089 & 0 & Memory Cards \\
\hline St Andrew Lutheran Church 11092 * & 1,207 & 1207 & 0 & Memory Cards \\
\hline St Johns Lutheran Church 10440 * & 773 & 773 & 0 & Memory Cards \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|}
\hline \multicolumn{5}{|c|}{Exhibit: RECONCILIATION} \\
\hline Vote Center & Check-ins & Reported Ballots & Variance (Potential Fled, EV Checkin, Prov Voter) & Official Results / Source of Reporting \\
\hline St Margarets Catholic Church 11054 * & 651 & 651 & 0 & Memory Cards \\
\hline St Nikolas Serbian Orth Ch 12268 * & 640 & 639 & -1 & Memory Cards \\
\hline Standing Stones Comm Ch 15405* & 1,625 & 1625 & 0 & Memory Cards \\
\hline Sun Lakes UMC 12938 * & 1,500 & 1500 & 0 & Memory Cards \\
\hline Sunland Village East 12374 & 1,731 & 1730 & -1 & Memory Cards \\
\hline Sunrise United Methodist Church 12809 * & 1,249 & 1249 & 0 & Memory Cards \\
\hline Sunset Canyon School 14814 * & 1,071 & 1071 & 0 & Memory Cards \\
\hline Surprise City Hall 14239 * & 1,850 & 1850 & 0 & Memory Cards \\
\hline Surprise Senior Center
\[
11007 \text { * }
\] & 1,339 & 1331 & -8 & Memory Cards \\
\hline Tempe History Museum 15612 * & 1,222 & 1222 & 0 & Memory Cards \\
\hline Tempe Mountain Park HIth Ctr 15695 * & 776 & 776 & 0 & Memory Cards \\
\hline The Refinery Christian Church 15735 * & 869 & 869 & 0 & Memory Cards \\
\hline Tolleson Council Chambers & 914 & 914 & 0 & Memory Cards \\
\hline Tomahawk School 10692 * & 627 & 627 & 0 & Memory Cards \\
\hline Trilogy @ Power Ranch 14134 * & 1,867 & 1867 & 0 & Memory Cards \\
\hline Trinity Bible Church of SCW 14584 * & 450 & 449 & -1 & Central Count \\
\hline Tumbleweed Recreation Center 15418* & 1,350 & 1351 & 1 & Memory Cards \\
\hline Union ESD Office 11289 * & 725 & 725 & 0 & Memory Cards \\
\hline
\end{tabular}
\begin{tabular}{|l|r|r|r|l|}
\hline \begin{tabular}{l} 
University Lutheran Church \\
\(11063^{*}\)
\end{tabular} & 638 & 638 & 0 & Memory Cards \\
\hline \begin{tabular}{l} 
University Presbyterian \\
Church 10323 *
\end{tabular} & 649 & 649 & 0 & Memory Cards \\
\hline \begin{tabular}{l} 
Valley Baptist Church \\
Tonopah 14178 *
\end{tabular} & 598 & 597 & -1 & Memory Cards \\
\hline \begin{tabular}{l} 
Valor Christian Center \\
15567
\end{tabular} & 1,518 & 1518 & 0 & Memory Cards \\
\hline Velda Rose UMC 11186 * & 1,684 & 1684 & 0 & Memory Cards \\
\hline Venue 8600 15599 * & 1,286 & 1286 & 0 & Central Count \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|}
\hline \multicolumn{5}{|c|}{Exhibit: RECONCILIATION} \\
\hline Vote Center & Check-ins & Reported Ballots & \begin{tabular}{l}
Variance \\
(Potential Fled, EV Checkin, Prov Voter)
\end{tabular} & Official Results / Source of Reporting \\
\hline Via Linda Senior Center
\[
13833 \text { * }
\] & 896 & 896 & 0 & Memory Cards \\
\hline Victory Lutheran Church 11349 * & 1,371 & 1370 & -1 & Memory Cards \\
\hline Vineyard Church Of North Phx 14644 * & 1,182 & 1181 & -1 & Memory Cards \\
\hline Washington ESD Office 14138 * & 746 & 745 & -1 & Memory Cards \\
\hline Wesley Community Center 12104 * & 184 & 176 & -8 & Central Count \\
\hline West Valley UUC 15136 * & 711 & 710 & -1 & Memory Cards \\
\hline Westwood Elementary School 11307 * & 828 & 827 & -1 & Memory Cards \\
\hline Wickenburg Community Center 11322 * & 1,000 & 1000 & 0 & Memory Cards \\
\hline Worship \& Word Church 15581 * & 1,115 & 1115 & 0 & Memory Cards \\
\hline Youngker High School 15322 * & 852 & 852 & 0 & Memory Cards \\
\hline Youngtown Clubhouse
\[
12156 \text { * }
\] & 929 & 928 & -1 & Memory Cards \\
\hline
\end{tabular}

\section*{EXHIBIT D}

Statistical confidence intervals for mismatched signatures in 2022, projected from mismatched signatures identified in 2020.
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline Confidence & Intervals & for & Proportion & of & Egregious Nis & Mismatched & Signatures: & \\
\hline p & = & n_egregiousMismatch/ & sampleSize & & 22964 / & & 230339 = & 0.09969653 \\
\hline 95.000\% & Confidence & Interval & is & 0.09847592 & to & 0.10092723 & & \\
\hline 99.000\% & Confidence & Interval & is & 0.09809471 & & 0.10131492 & & \\
\hline 99.900\% & Confidence & Interval & is & 0.09765344 & to & 0.10176592 & & \\
\hline 99.990\% & Confidence & Interval & is & 0.09728385 & & 0.1021455 & & \\
\hline 99.999\% & Confidence & Interval & is & 0.09696021 & to & 0.10247928 & & \\
\hline Confidence & Intervals & for & Proportion & of & StandardDefinition & Mismatched & Signatures: & \\
\hline p & \(=\) & n_standardMismatch/ & sampleSize & = & 29406 / & & 230339 = & 0.12766401 \\
\hline 95.000\% & Confidence & Interval & is & 0.1263037 & & 0.1290337 & & \\
\hline 99.000\% & Confidence & Interval & is & 0.1258785 & & 0.1294649 & & \\
\hline 99.900\% & Confidence & Interval & is & 0.1253861 & & 0.1299664 & & \\
\hline 99.990\% & Confidence & Interval & is & 0.1249735 & & 0.1303883 & & \\
\hline 99.999\% & Confidence & Interval & is & 0.124612 & & 0.1307591 & & \\
\hline
\end{tabular}

\begin{tabular}{|c|c|}
\hline Y Y Y Y Y Y &  \\
\hline  &  \\
\hline
\end{tabular}
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