Appendix 1. Series of Graphs Presenting Model Results

The following series of four graphs presents model results. Graph A is a best-fit line for simulated versus measured average monthly flow. Graph A also provides information about the R^2, which statistically demonstrates how well the regression line fits for the data. Any R^2 value above 0.5 indicates a good fit. Graph B demonstrates average monthly flows for simulated and measured flows. Graph C is a time series of daily flow of simulated and measured flows. Graph D is a duration curve of daily flow for the simulated and measured flows. The flow-duration curve is a cumulative frequency curve that shows the percentage of time during which specified flows were equaled or exceeded for the given period of analysis (Searcy, 1959).

[As separate files available for download at http://pubs.usgs.gov/sir/2014/5021/downloads/]

A1. USGS station 03568933, Lookout Creek near New England, Ga.

A2. USGS station 03574500, Paint Rock River near Woodville, Ala.

A3. USGS station 03575100, Flint River at Brownsboro, Ala.

A4. USGS station 03586500, Big Nance Creek at Courtland, Ala.

A5. USGS station 03571000, Sequatchie River near Whitwell, Tenn.

A6. USGS station 03575830, Indian Creek near Madison, Ala.

A7. USGS station 03584600, Elk River at Prospect, Tenn.

A8. USGS station 03588500, Shoal Creek at Iron City, Tenn.

A9. USGS station 03592718, Little Yellow Creek East near Burnsville, Miss.

A10. USGS station 02367310, Juniper Creek at State Highway 85 near Niceville, Fla.

A11. USGS station 02366996, Alaqua Creek near Pleasant Ridge, Fla.

A12. USGS station 02368000, Yellow River at Milligan, Fla.

A13. USGS station 02361500, Choctawatchee River near Bellwood, Ala.

A14. USGS station 02363000, Pea River near Ariton, Ala.

A15. USGS station 02371500, Conecuh River at Brantley, Ala.

A16. USGS station 02374500, Murder Creek near Evergreen, Ala.

A17. USGS station 02479431, Pond Creek near Deer Park, Ala.

A18. USGS station 02479980, Crooked Creek near Fairview, Ala.

A19. USGS station 02378500, Fish River near Silver Hill, Ala.

A20. USGS station 02370000, Blackwater River near Baker, Fla.

A21. USGS station 02362240, Little Double Bridges Creek near Enterprise, Ala.

A22. USGS station 02372250, Patsaliga Creek near Brantley, Ala.

A23. USGS station 02479945, Big Creek at County Road 63 near Wilmer, Ala.

A24. USGS station 02364570, Panther Creek near Hacoda, Ala.

A25. USGS station 02373000, Sepulga River near Mckenzie, Ala.

A26. USGS station 02479560, Escatawpa River near Agricola, Miss.

A27. USGS station 02365769, Bruce Creek at State Highway 81 near Redbay, Fla.

A28. USGS station 02374745, Burnt Corn Creek at State Highway 41 near Brewton, Ala.

A29. USGS station 02430085, Red Bud Creek near Moores Mill, Miss.

A30. USGS station 02438000, Buttahatchee River below Hamilton, Ala.

A31. USGS station 02442500, Luxapallila Creek at Millport, Ala.

A32. USGS station 02446500, Sipsey River near Elrod, Ala.

A33. USGS station 02448000, Noxubee River near Macon, Miss.

A34. USGS station 02450000, Mulberry Fork near Garden City, Ala.

A35. USGS station 02450250, Sipsey Fork near Grayson, Ala.

A36. USGS station 02455000, Locust Fork near Cleveland, Ala.

A37. USGS station 02464000, North River near Samantha, Ala.

A38. USGS station 02464146, Turkey Creek near Tuscaloosa, Ala.

A39. USGS station 02467500, Sucarnoochee River at Livingston, Ala.

A40. USGS station 02412000, Tallapoosa River near Heflin, Ala.

A41. USGS station 02381600, Fausett Creek near Talking Rock, Ga.

A42. USGS station 02384540, Mill Creek near Crandall, Ga.

A43. USGS station 02395120, Two Run Creek near Kingston, Ga.

A44. USGS station 02397410, Cedar Creek at GA Ave at Cedartown, Ga.

A45. USGS station 02398300, Chattooga River above Gaylesville, Ala.

A46. USGS station 02399200, Little River near Blue Pond, Ala.

A47. USGS station 02401000, Big Wills Creek near Reece City, Ala.

A48. USGS station 02401370, Big Canoe Creek near Springville, Ala.

A49. USGS station 02401470, Little Canoe Creek near Steele, Ala.

A50. USGS station 02405500, Kelly Creek near Vincent, Ala.

A51. USGS station 02424000, Cahaba River at Centreville, Ala.

A52. USGS station 02427250, Pine Barren Creek near Snow Hill, Ala.

A53. USGS station 02430615, Mud Creek near Fairview, Miss.

A54. USGS station 02450180, Mulberry Fork near Arkadelphia, Ala.

A55. USGS station 02450825, Clear Creek at New Hope Church near Poplar Springs, Ala.

A56. *A*, Best-fit line for simulated versus measured average USGS station 02413300, Little Tallapoosa River near Newell, Ala.

A57. USGS station 02382200, Talking Rock Creek near Hinton, Ga.

A58. USGS station 02430880, Cummings Creek near Fulton, Miss.

A59. USGS station 02453000, Blackwater Creek near Manchester, Ala.

A60. USGS station 02415000, Hillabee Creek near Hackneyville, Ala.

A61. USGS station 02388500, Oostanaula River near Rome, Ga.

A62. USGS station 02448900, Bodka Creek near Geiger, Ala.

A63. *A*, Best-fit line for simulated versus measured average USGS station 02456500, Locust Fork at Sayre, Ala.

A64. USGS station 02400100, Terrapin Creek at Ellisville, Ala.

A65. USGS station 02464360, Binion Creek below Gin Creek near Samantha, Ala.

A66. USGS station 02401390, Big Canoe Creek at Ashville, Ala.

A67. USGS station 02465493, Elliotts Creek at Moundville, Ala.

A68. USGS station 02404400, Choccolocco Creek at Jackson Shoal near Lincoln, Ala.

A69. USGS station 02449245, Brush Creek near Eutaw, Ala.

A70. USGS station 02406500, Talladega Creek at Alpine, Ala.

A71. USGS station 02469800, Satilpa Creek near Coffeeville, Ala.

A72. USGS station 02408540, Hatchet Creek below Rockford, Ala.

A73. USGS station 02470072, Bassett Creek at US Highway 43 near Thomasville, Ala.

A74. USGS station 02419000, Uphapee Creek near Tuskagee, Ala.

A75. USGS station 02421000, Catoma Creek near Montgomery, Ala.

A76. USGS station 02422500, Mulberry Creek at Jones, Ala.

A77. USGS station 02427700, Turkey Creek at Kimbrough, Ala.

A78. USGS station 02471001, Chickasaw Creek near Kushla, Ala.

A79. USGS station 02331600, Chattahoochee River near Cornelia, Ga.

A80. USGS station 02333500, Chestatee River near Dahlonega, Ga.

A81. USGS station 02337000, Sweetwater Creek near Austell, Ga.

A82. USGS station 02338523, Hillabahatchee Creek at Thaxton Road, near Franklin, Ga.

A83. USGS station 02338660, New River at GA 100 near Corinth, Ga.

A84. USGS station 02338840, Yellowjacket Creek-Hammett Road below Hogansville, Ga.

A85. USGS station 02339225, Wehadkee Creek below Rock Mills, Ala.

A86. USGS station 02341800, Upatoi Creek near Columbus, Ga.

A87. USGS station 02342500, Uchee Creek near Fort Mitchell, Ala.

A88. USGS station 02342933, South Fork Cowikee Creek near Batesville, Ala.

A89. USGS station 02343300, Abbie Creek near Haleburg, Ala.

A90. USGS station 02343940, Sawhatchee Creek at Cedar Springs, Ga.

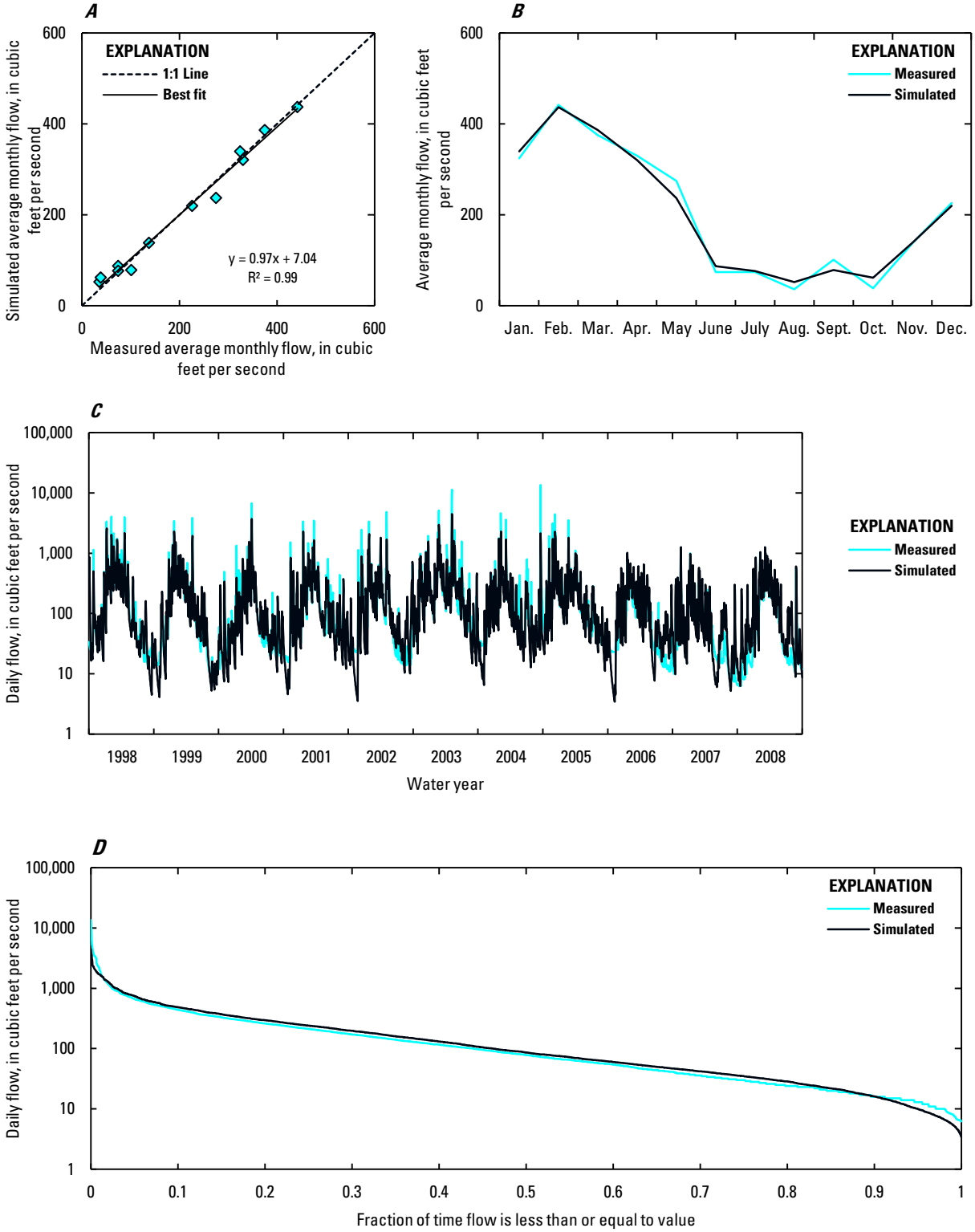

Figure A1. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 03568933, Lookout Creek near New England, Ga. (1998–2008).

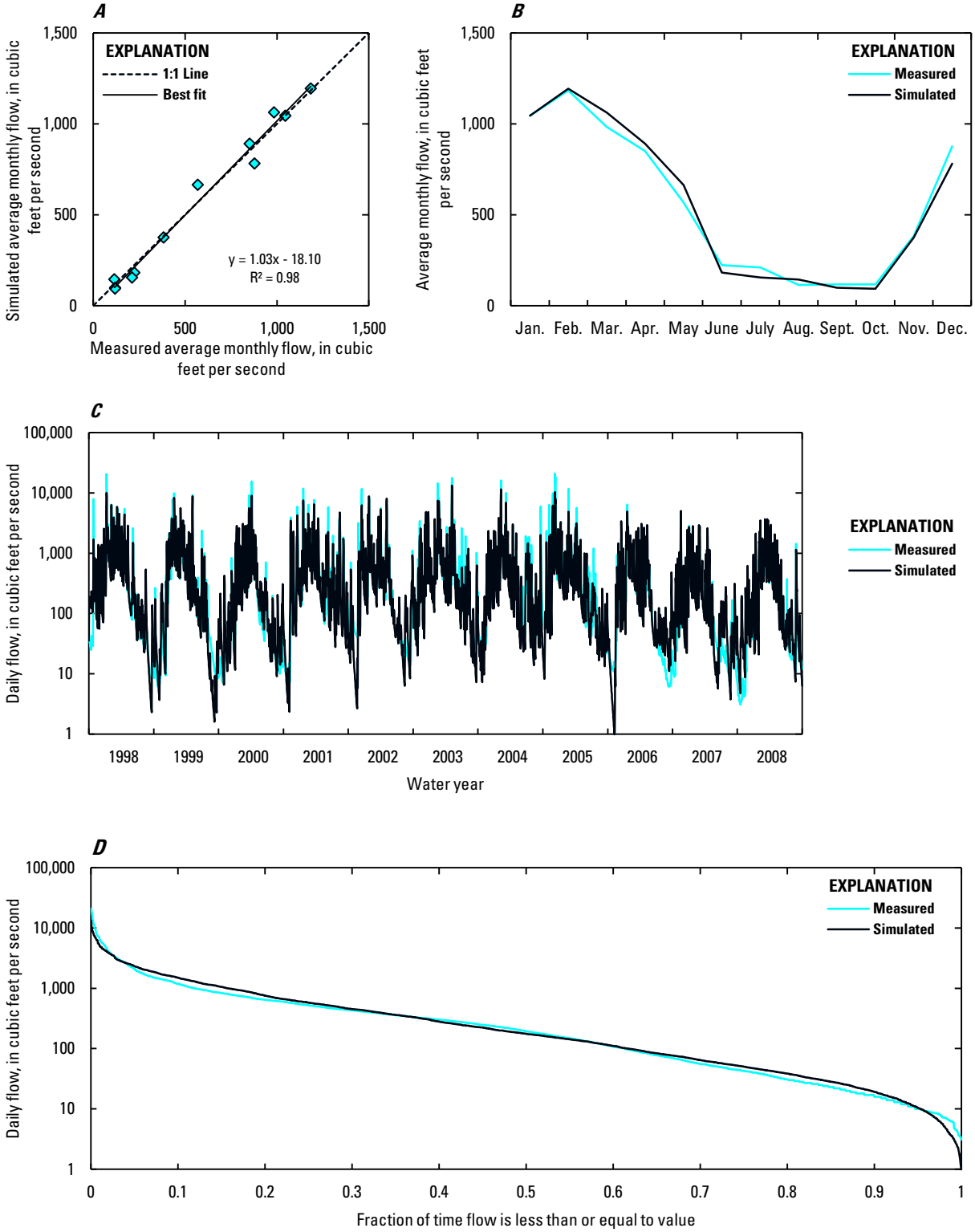

Figure A2. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 03574500, Paint Rock River near Woodville, Ala. (1998–2008).

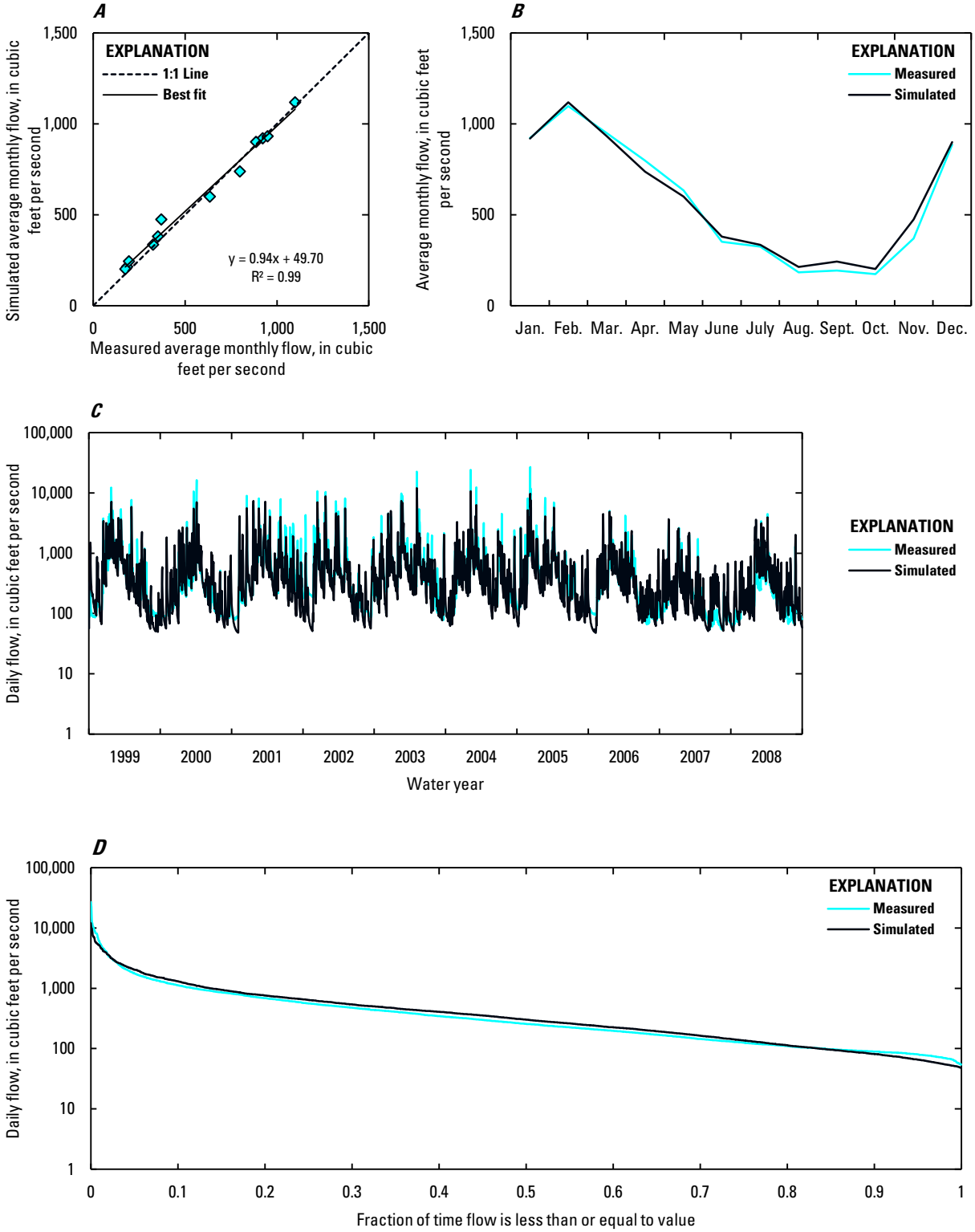

Figure A3. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1999–2008). *C*, Time series of daily flow (1999–2008). *D*, Duration curve of daily flows at USGS station 03575100, Flint River at Brownsboro, Ala. (1999–2008).

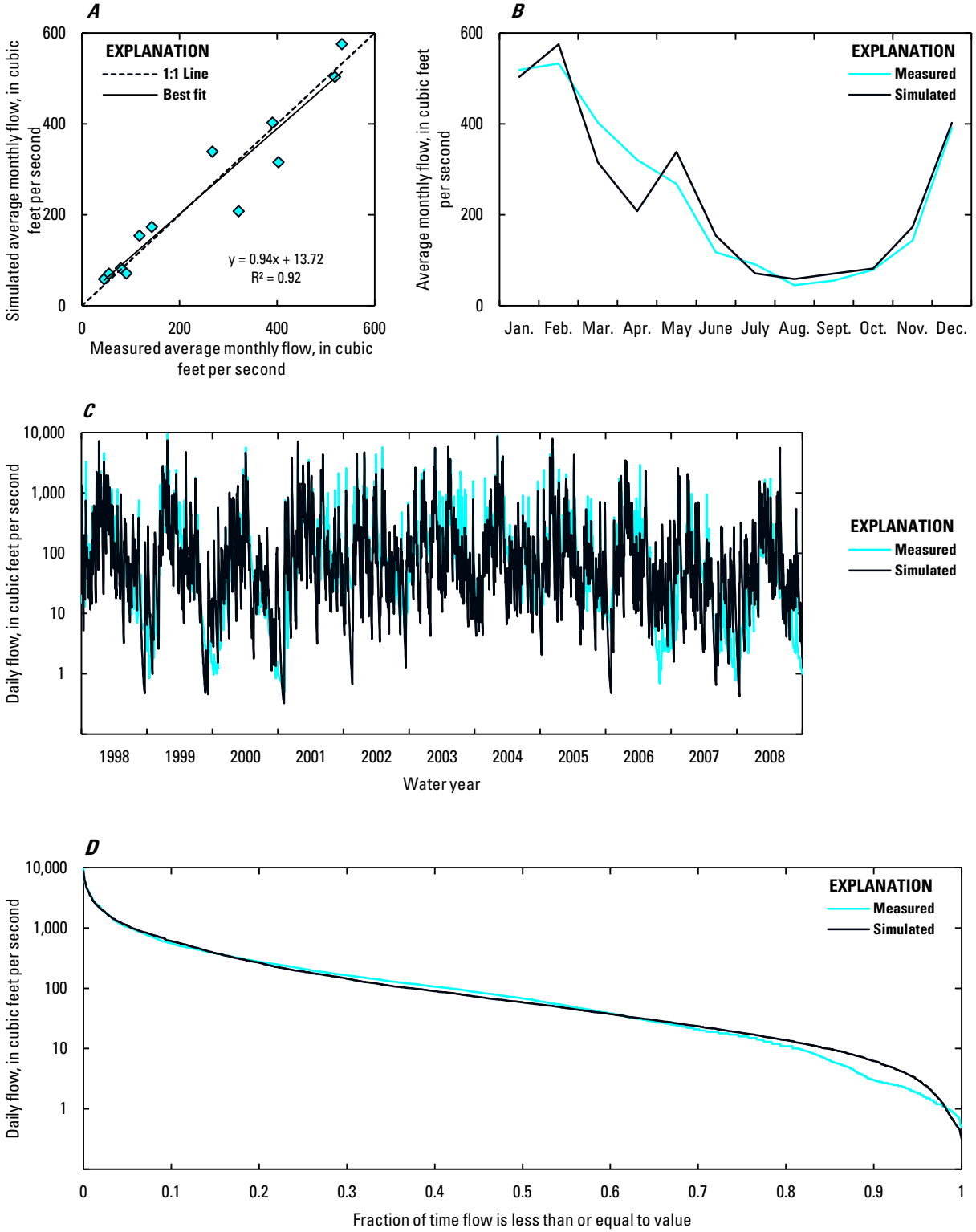

Figure A4. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 03586500, Big Nance Creek at Courtland, Ala. (1998–2008).

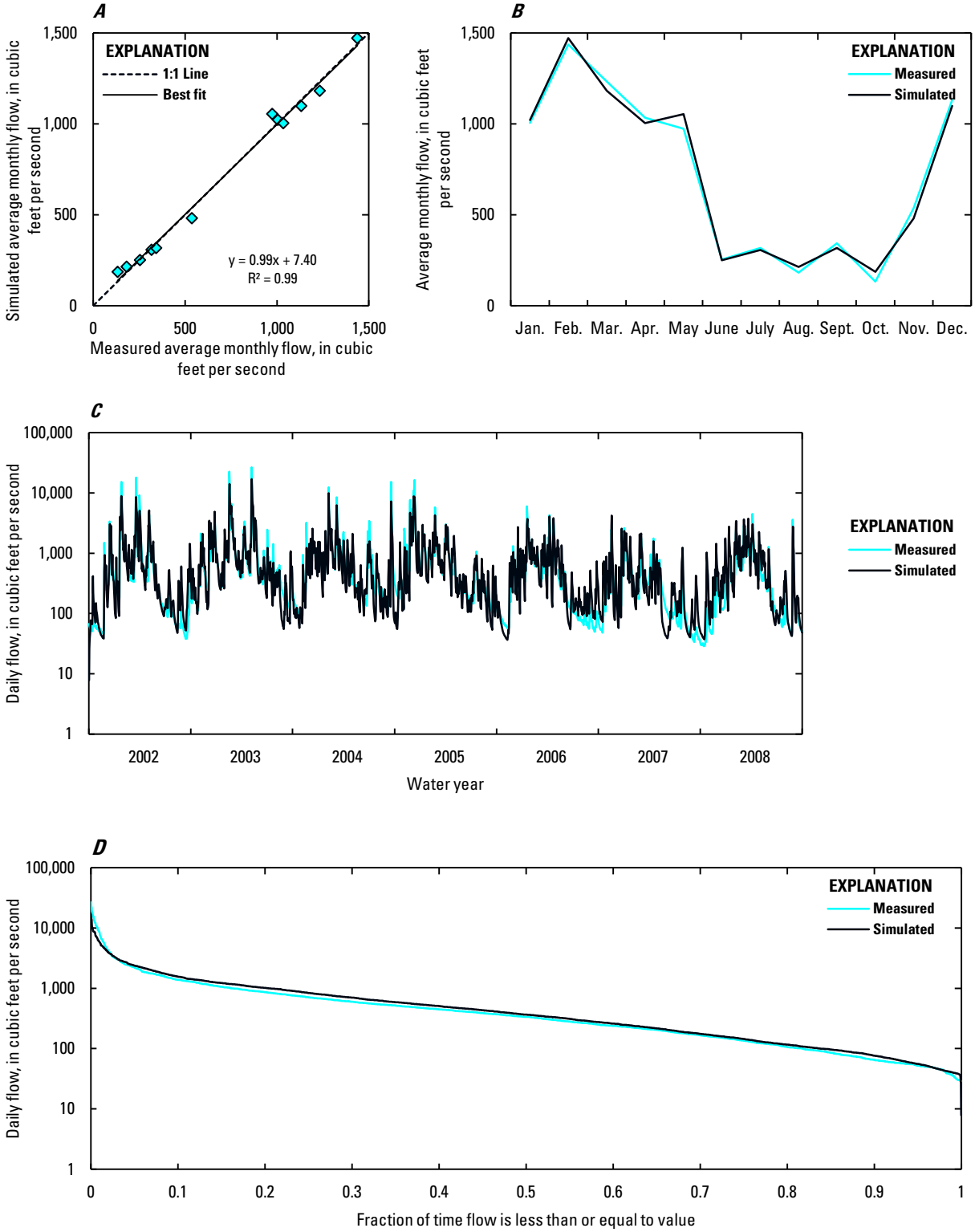

Figure A5. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (2002–2008). *C*, Time series of daily flow (2002–2008). *D*, Duration curve of daily flows at USGS station 03571000, Sequatchie River near Whitwell, Tenn. (2002–2008).

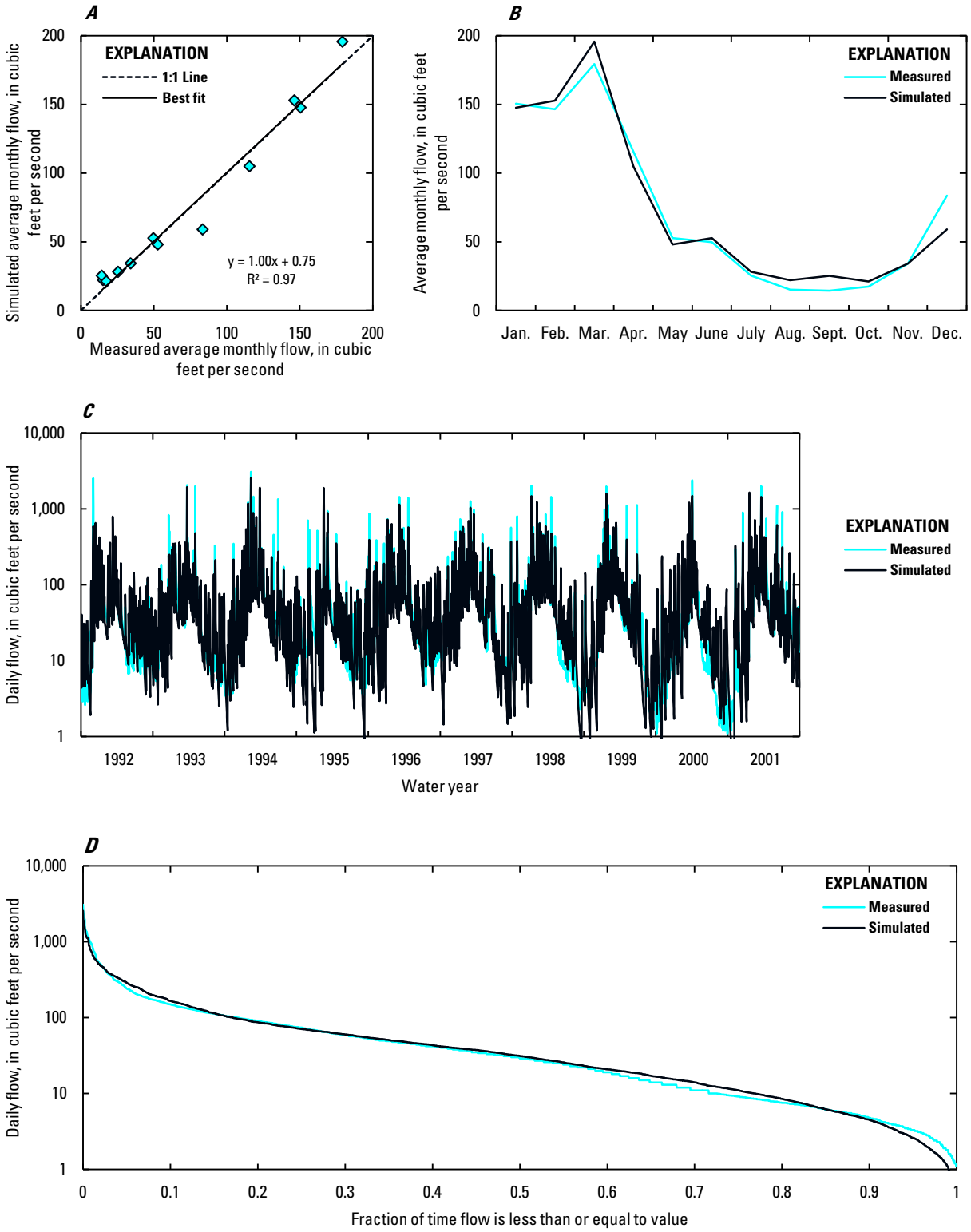

Figure A6. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1992–2001). *C*, Time series of daily flow (1992–2001). *D*, Duration curve of daily flows at USGS station 03575830, Indian Creek near Madison, Ala. (1992–2001).

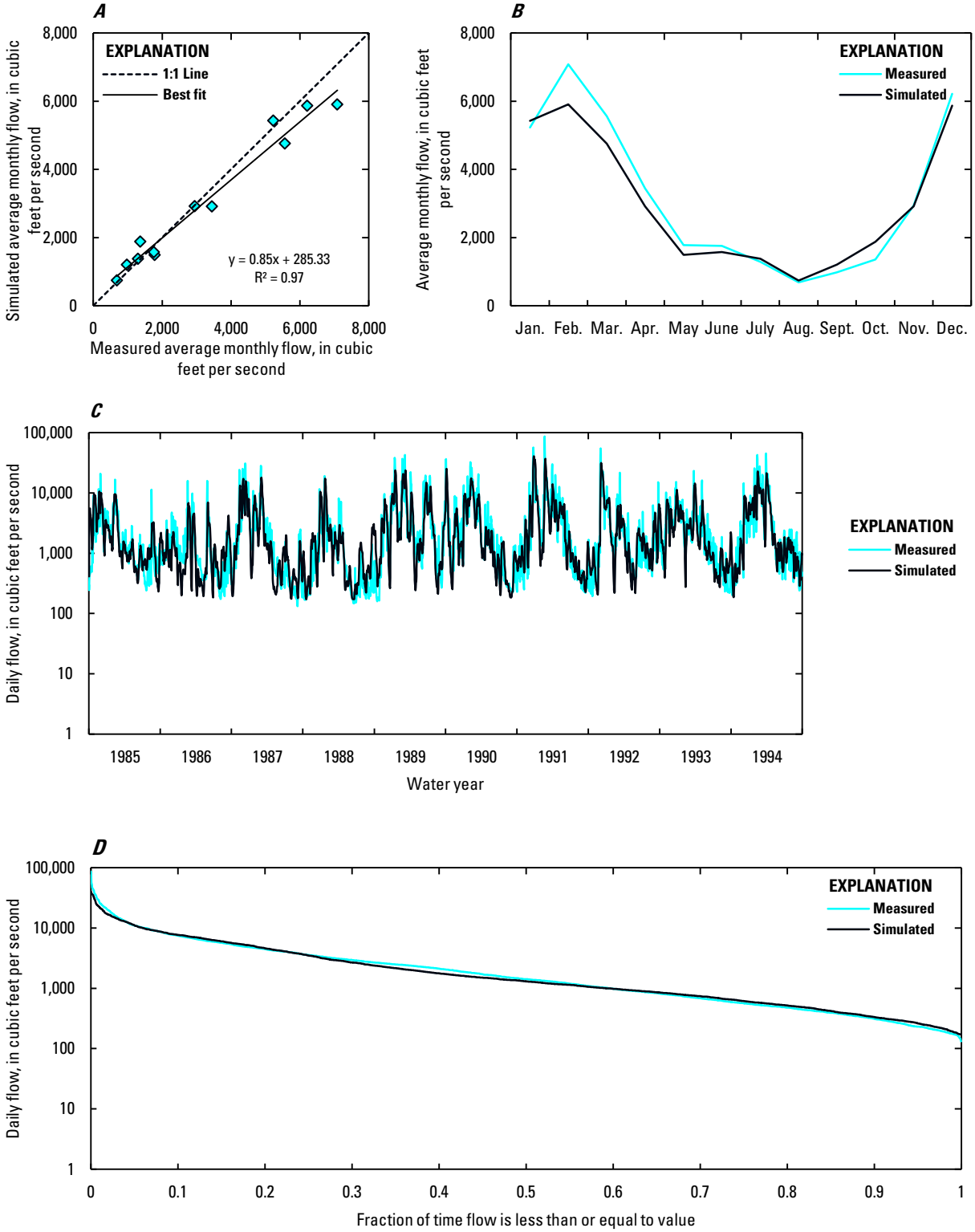

Figure A7. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1985–1994). *C*, Time series of daily flow (1985–1994). *D*, Duration curve of daily flows at USGS station 03584600, Elk River at Prospect, Tenn. (1985–1994).

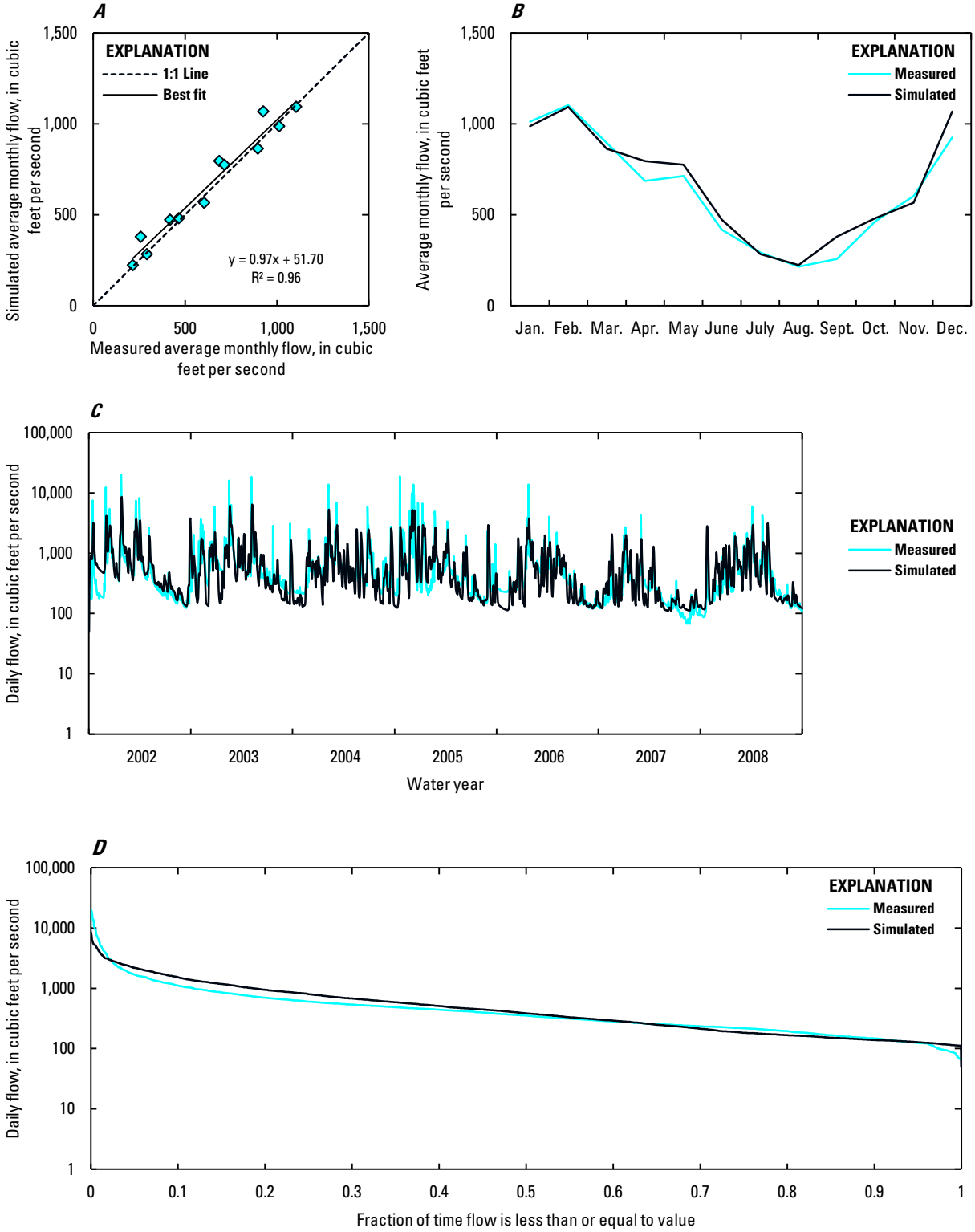

Figure A8. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (2002–2008). *C*, Time series of daily flow (2002–2008). *D*, Duration curve of daily flows at USGS station 03588500, Shoal Creek at Iron City, Tenn. (2002–2008).

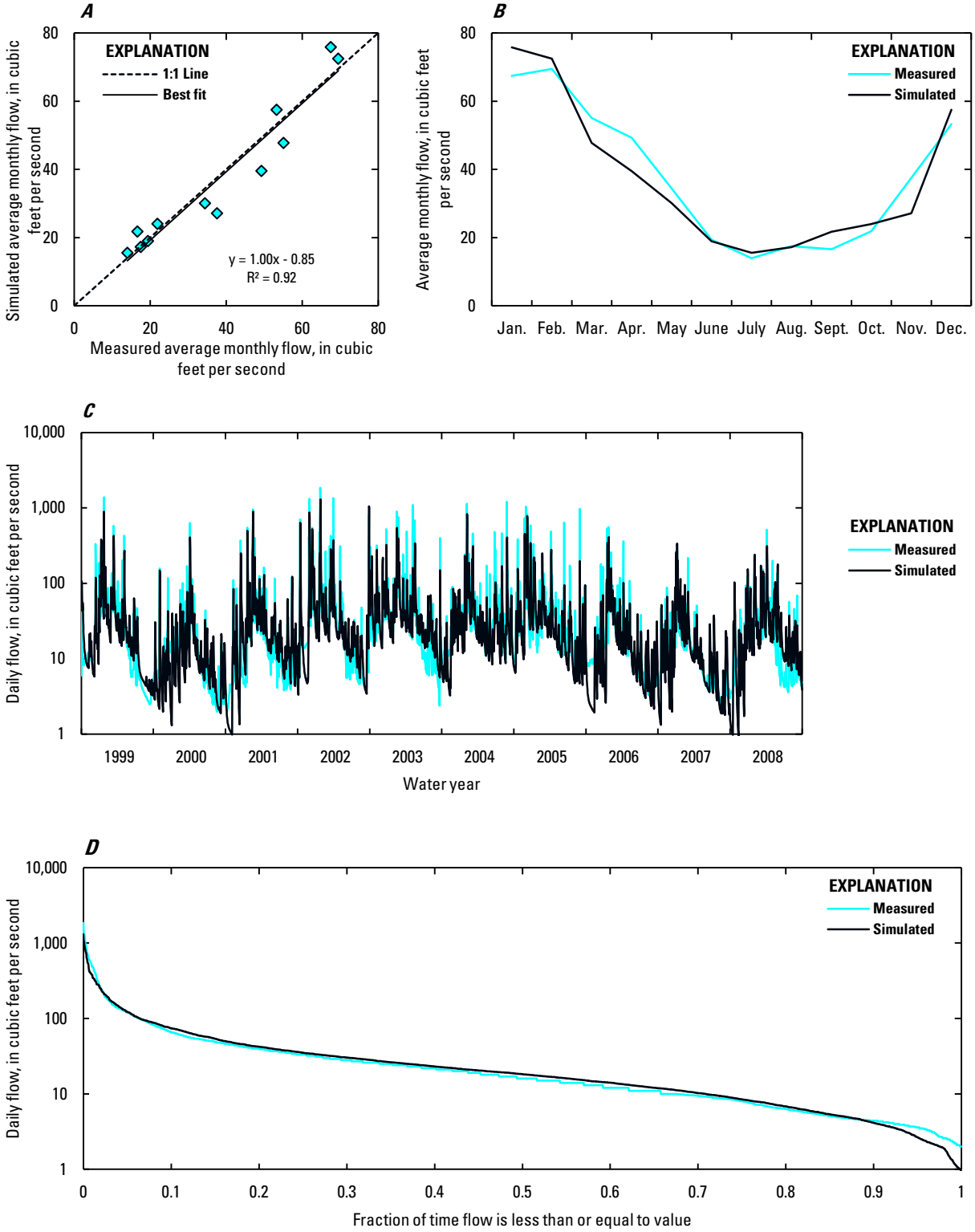

Figure A9. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1999–2008). *C*, Time series of daily flow (1999–2008). *D*, Duration curve of daily flows at USGS station 03592718, Little Yellow Creek East near Burnsville, Miss. (1999–2008).

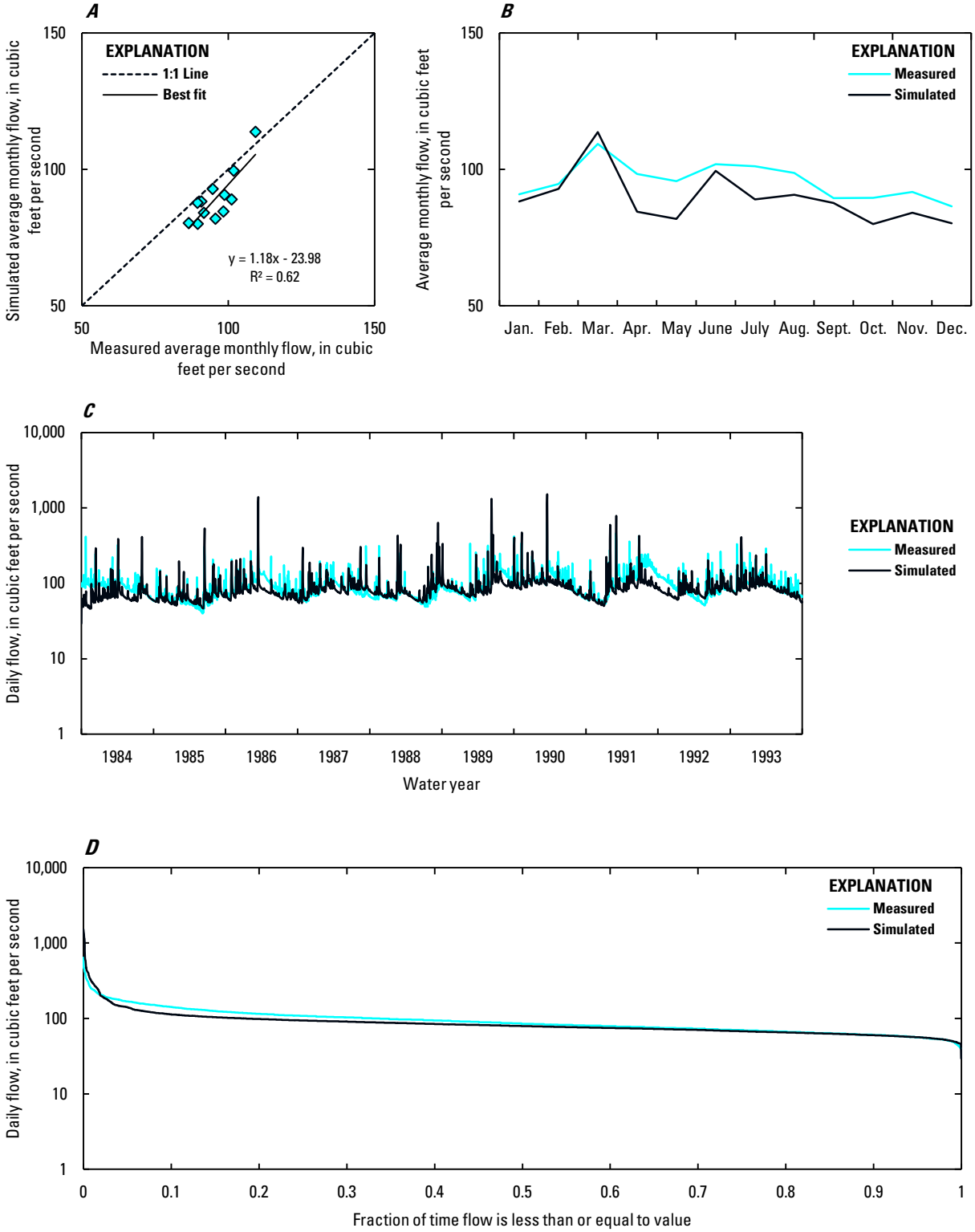

Figure A10. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1984–1993). *C*, Time series of daily flow (1984–1993). *D*, Duration curve of daily flows at USGS station 02367310, Juniper Creek at State Highway 85 near Niceville, Fla. (1984–1993).

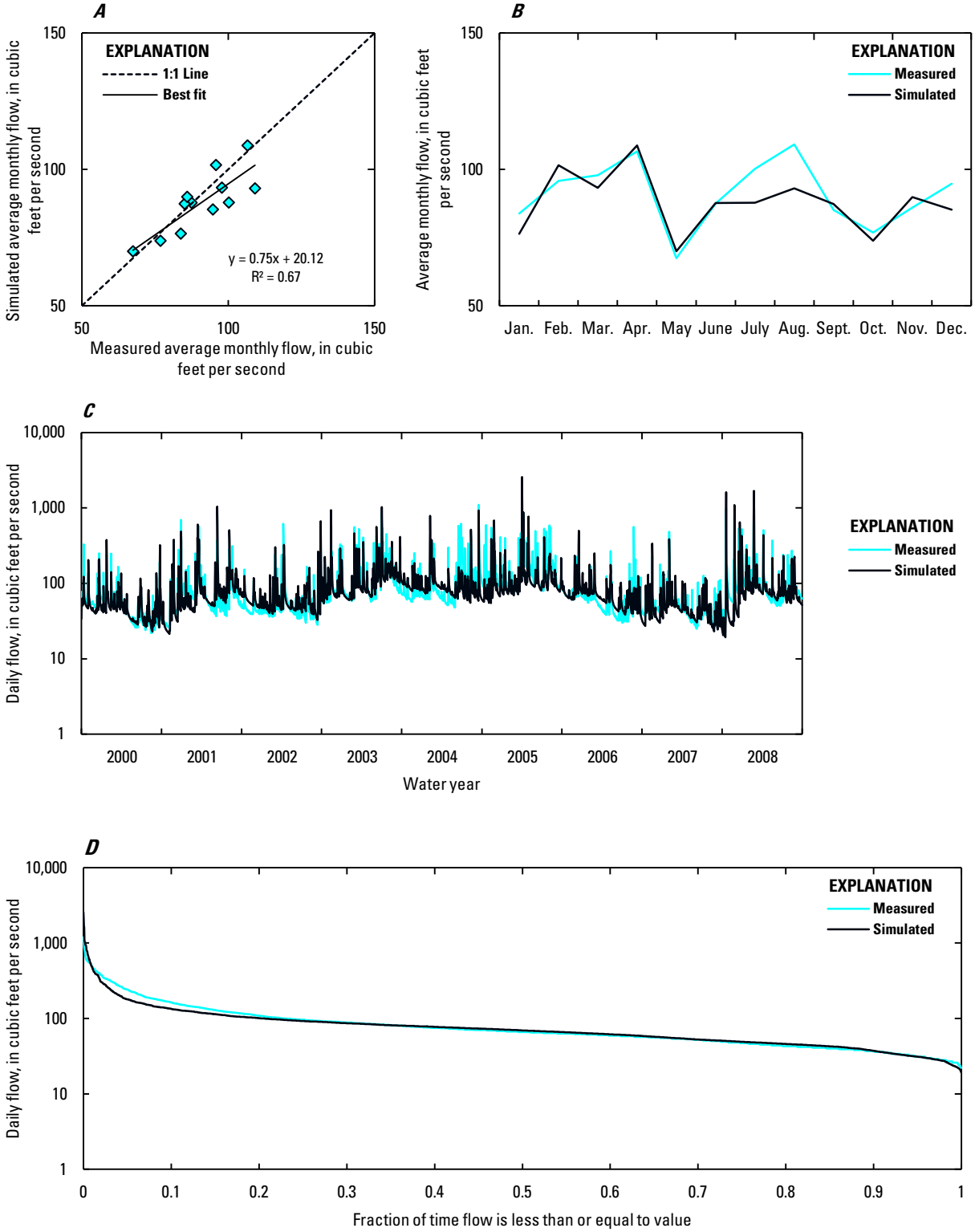

Figure A11. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (2000–2008). *C*, Time series of daily flow (2000–2008). *D*, Duration curve of daily flows at USGS station 02366996, Alaqua Creek near Pleasant Ridge, Fla. (2000–2008).

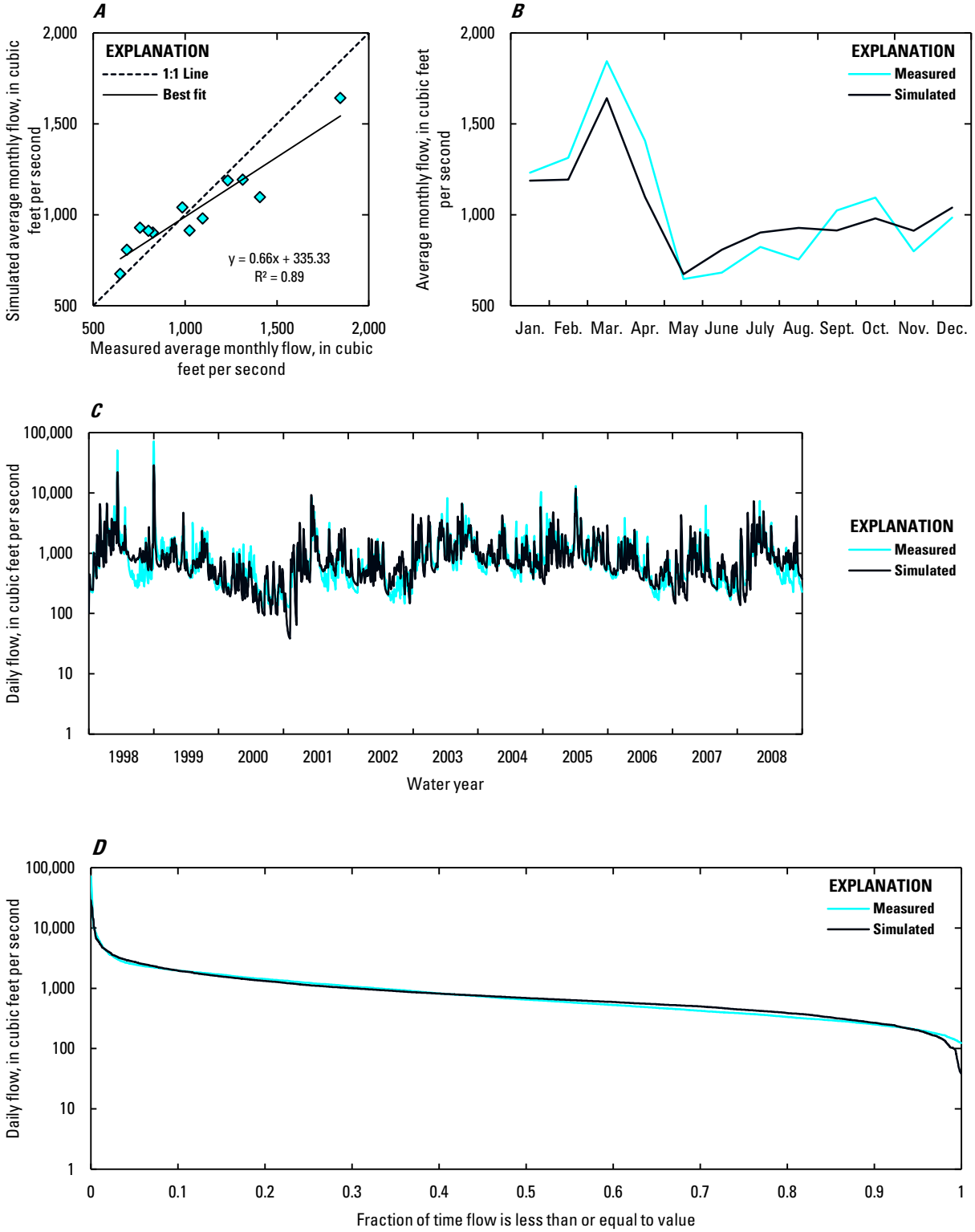

Figure A12. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02368000, Yellow River at Milligan, Fla. (1998–2008).

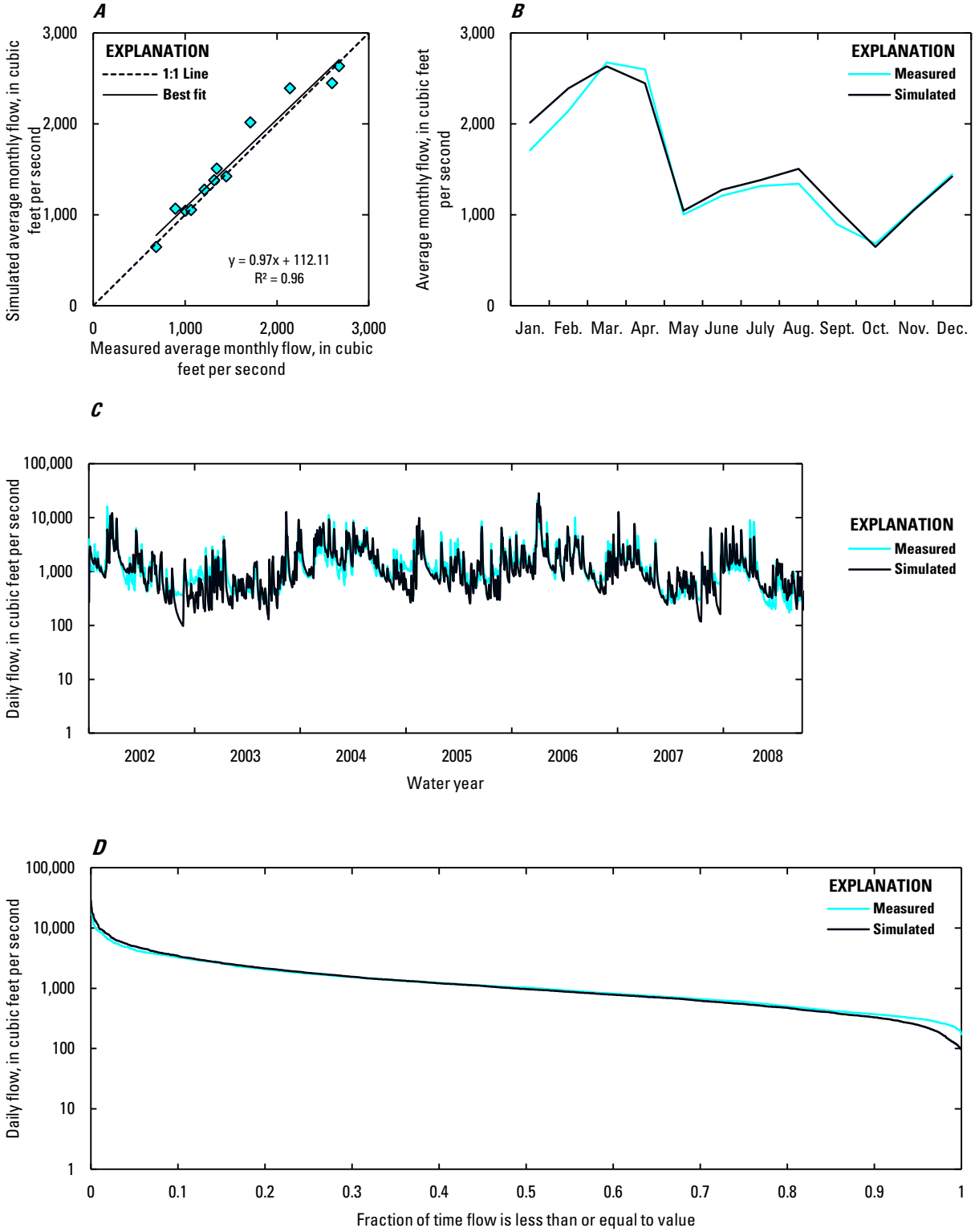

Figure A13. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (2002–2008). *C*, Time series of daily flow (2002–2008). *D*, Duration curve of daily flows at USGS station 02361000, Choctawatchee River near Newton, Ala. (2002–2008).

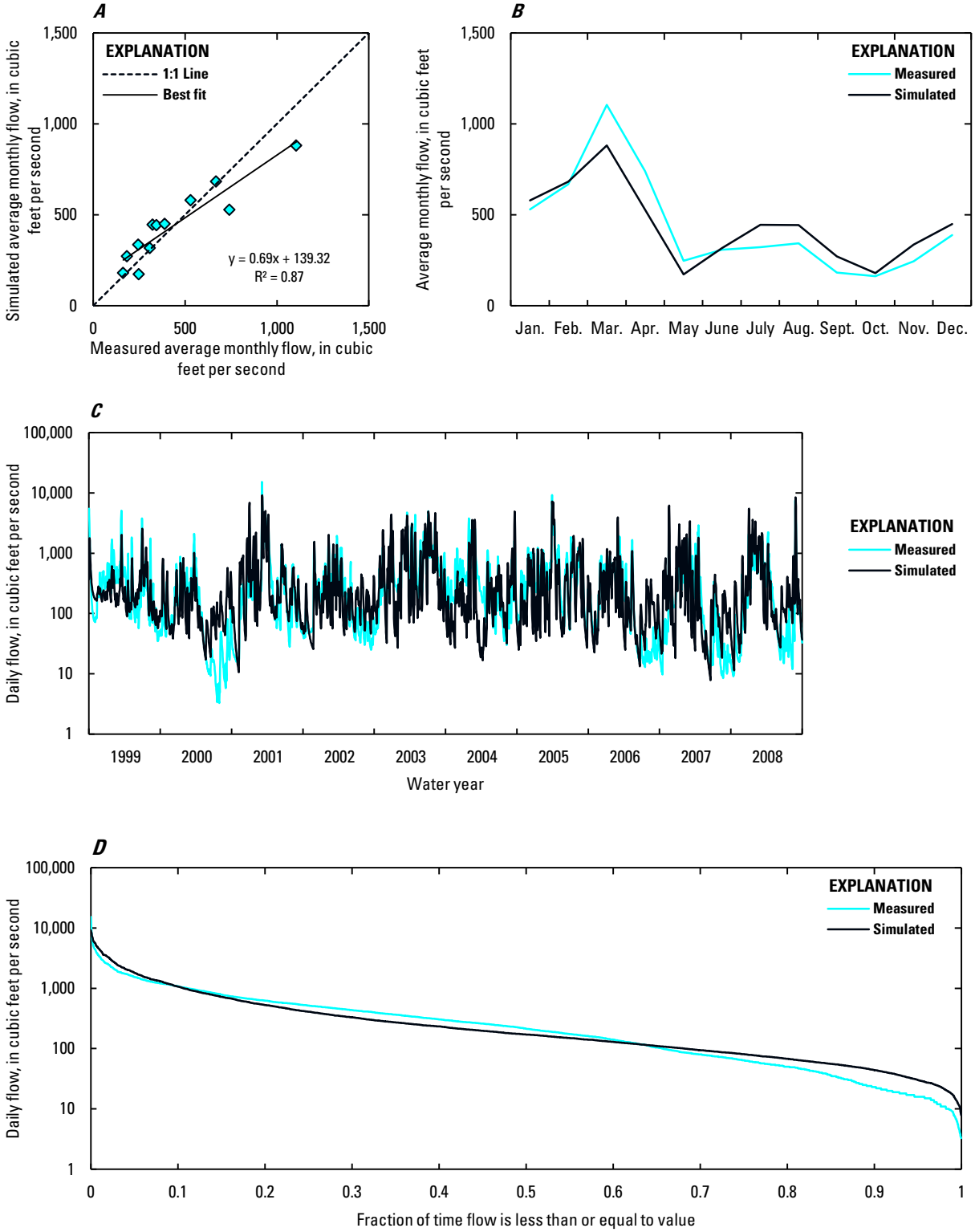

Figure A14. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1999–2008). *C*, Time series of daily flow (1999–2008). *D*, Duration curve of daily flows at USGS station 02363000, Pea River near Ariton, Ala. (1999–2008).

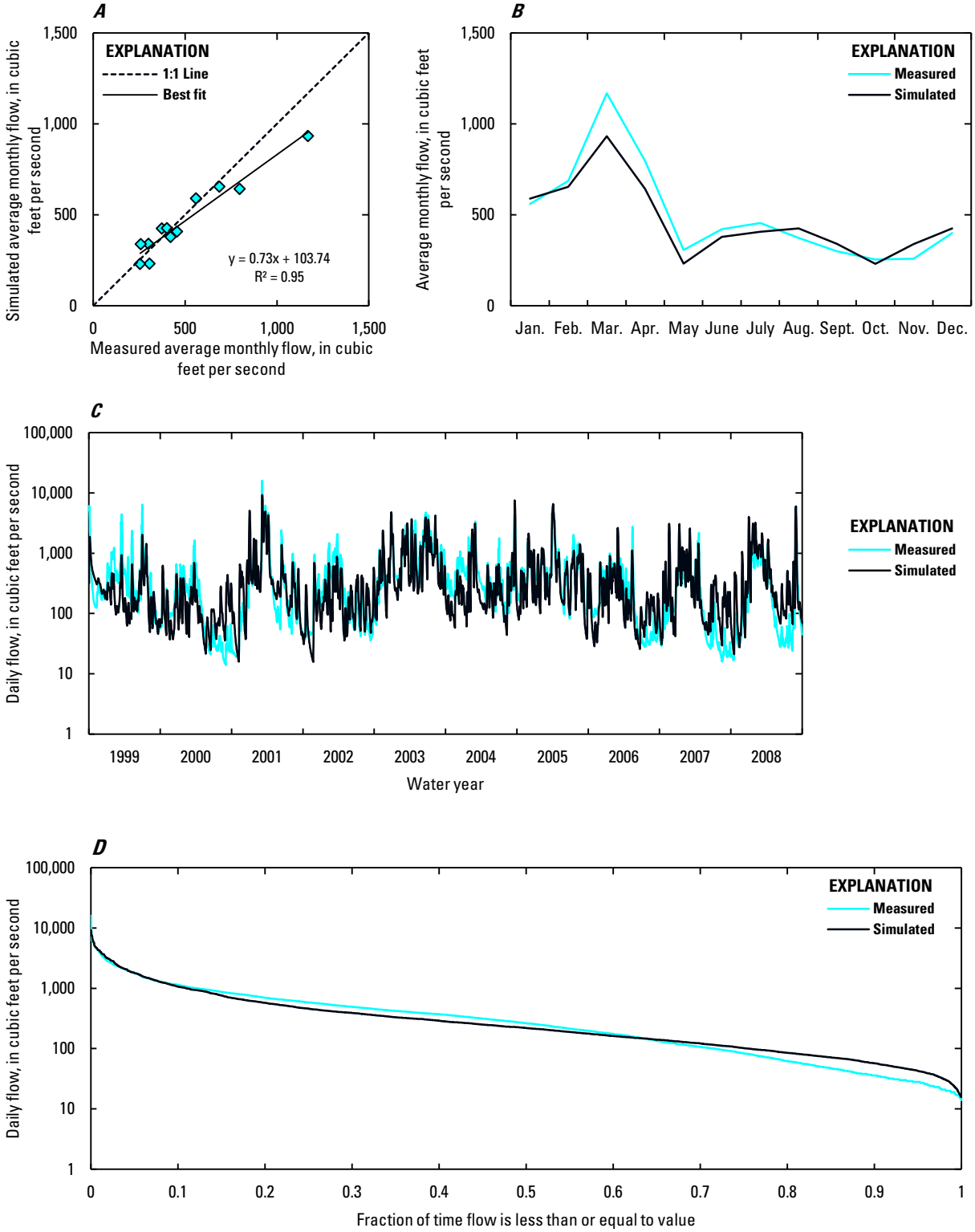

Figure A15. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1999–2008). *C*, Time series of daily flow (1999–2008). *D*, Duration curve of daily flows at USGS station 02371500, Conecuh River at Brantley, Ala. (1999–2008).

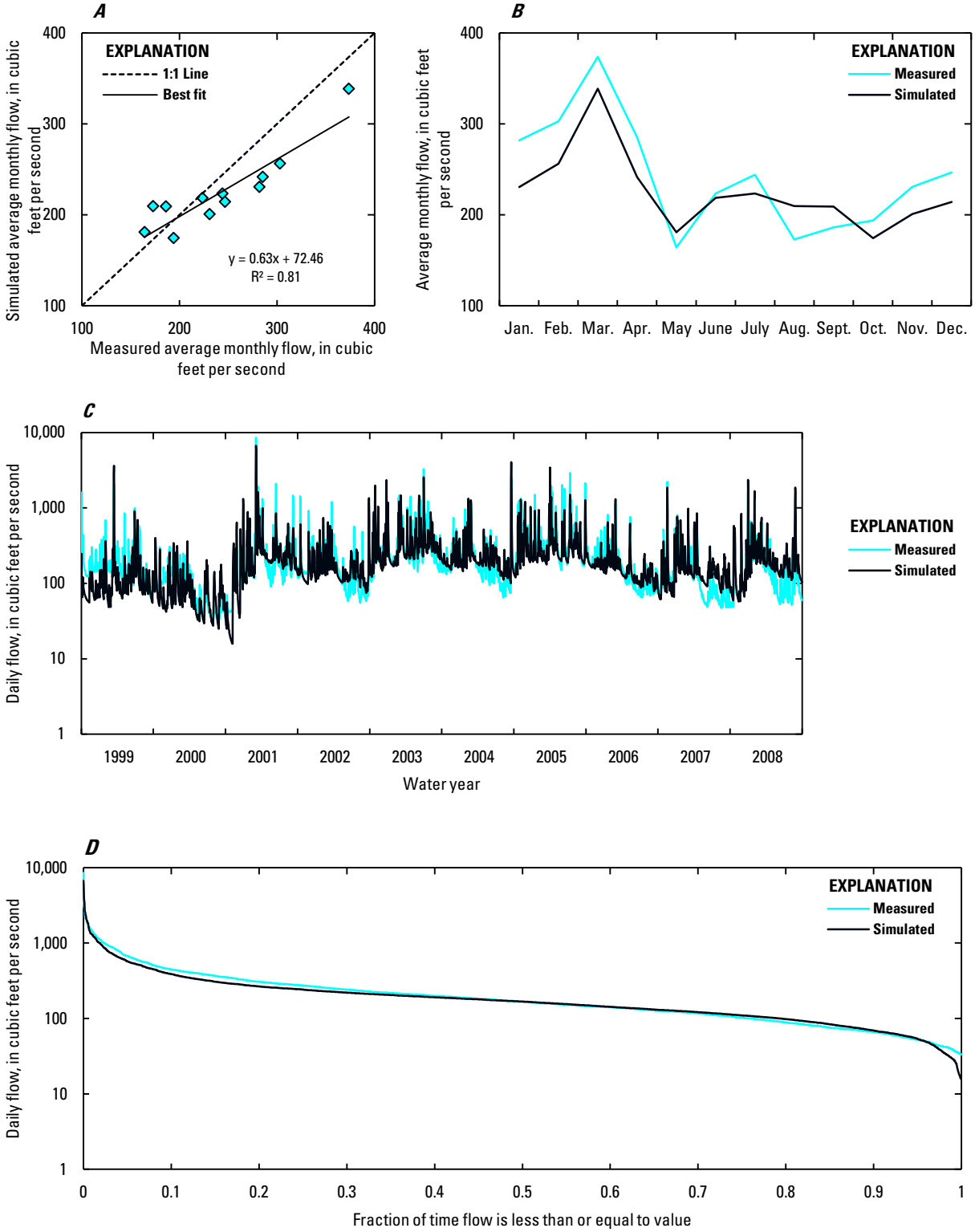

Figure A16. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1999–2008). *C*, Time series of daily flow (1999–2008). *D*, Duration curve of daily flows at USGS station 02374500, Murder Creek near Evergreen, Ala. (1999–2008).

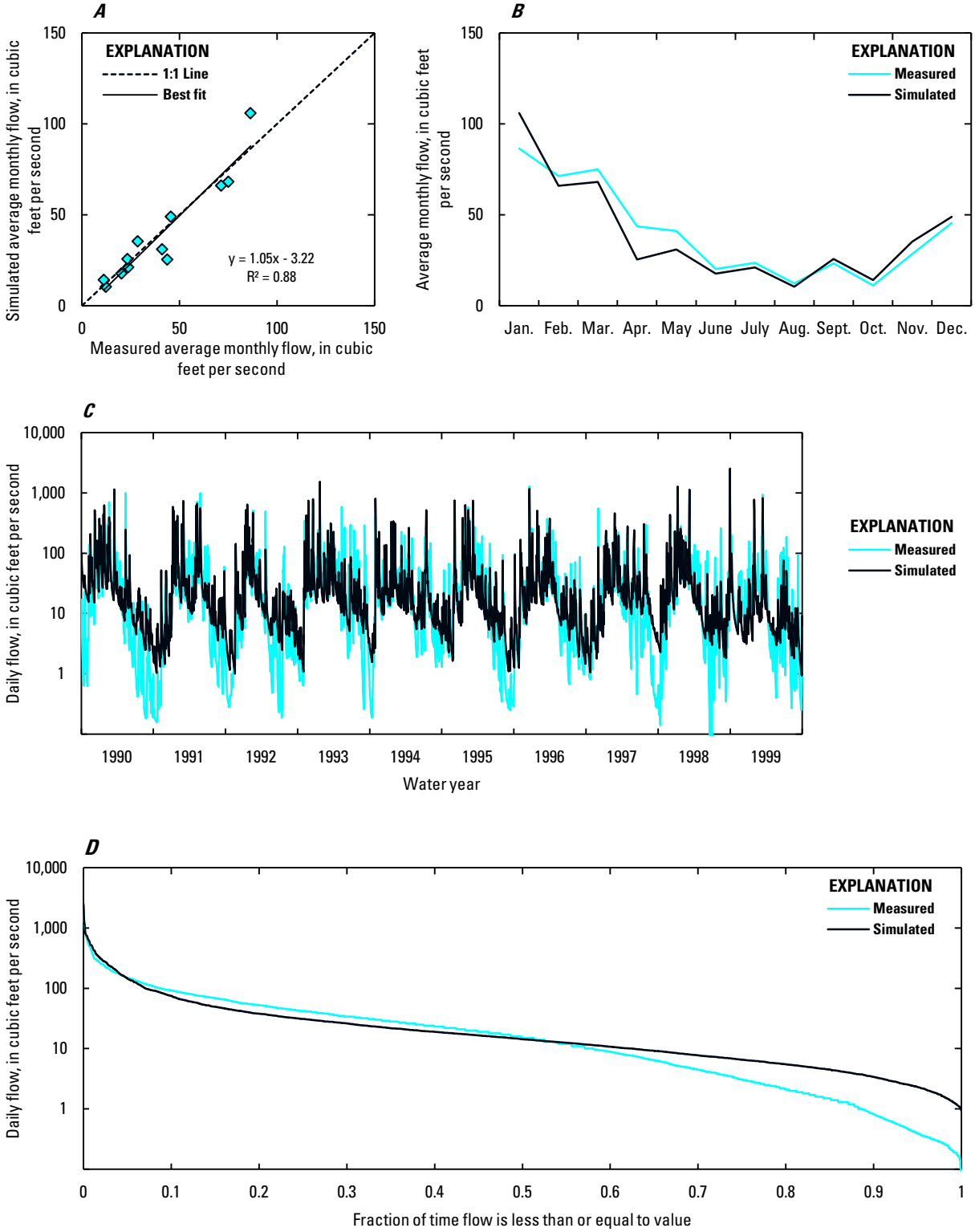

Figure A17. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1990–1999). *C*, Time series of daily flow (1990–1999). *D*, Duration curve of daily flows at USGS station 02479431, Pond Creek near Deer Park, Ala. (1990–1999).

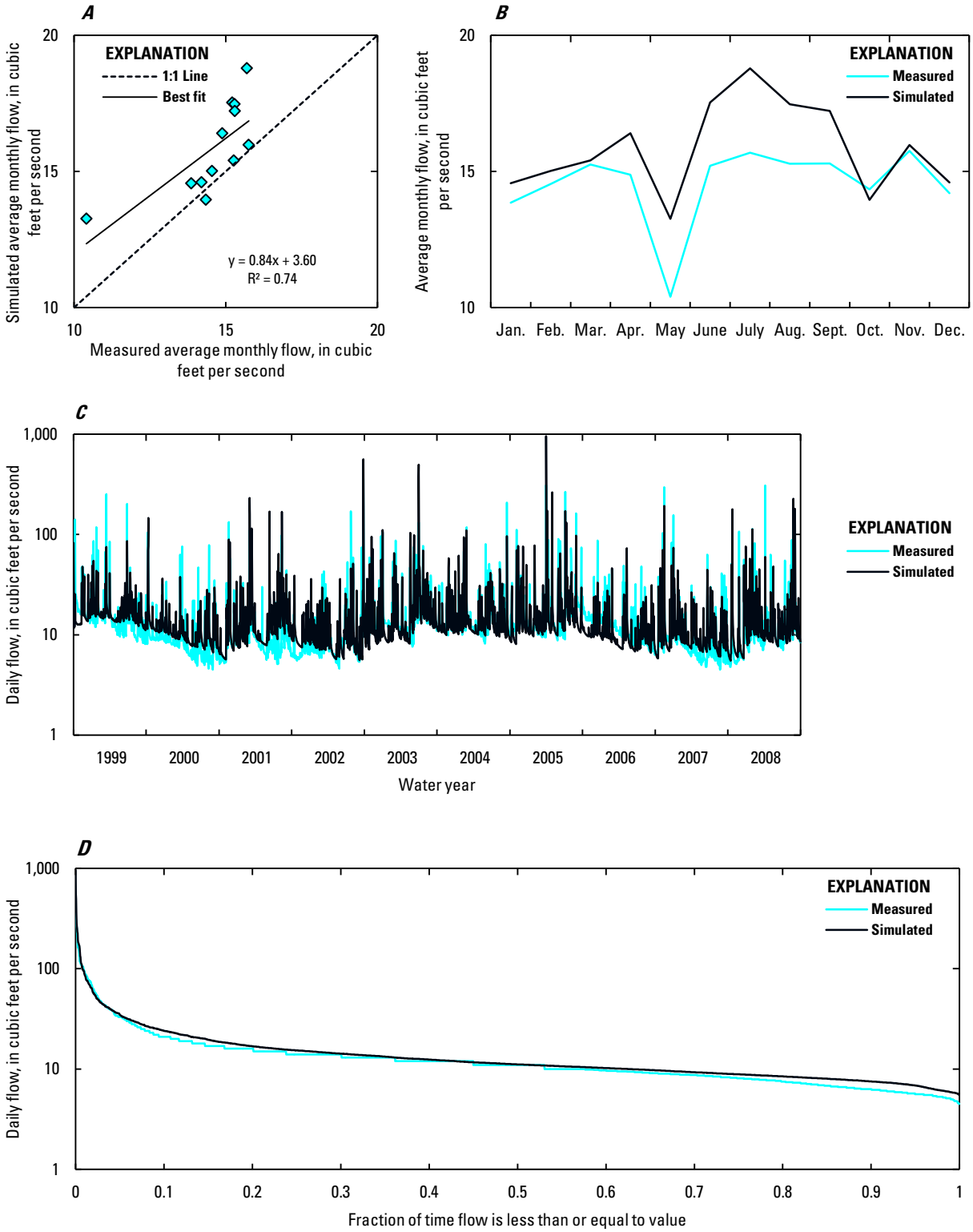

Figure A18. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1999–2008). *C*, Time series of daily flow (1999–2008). *D*, Duration curve of daily flows at USGS station 02479980, Crooked Creek near Fairview, Ala. (1999–2008).

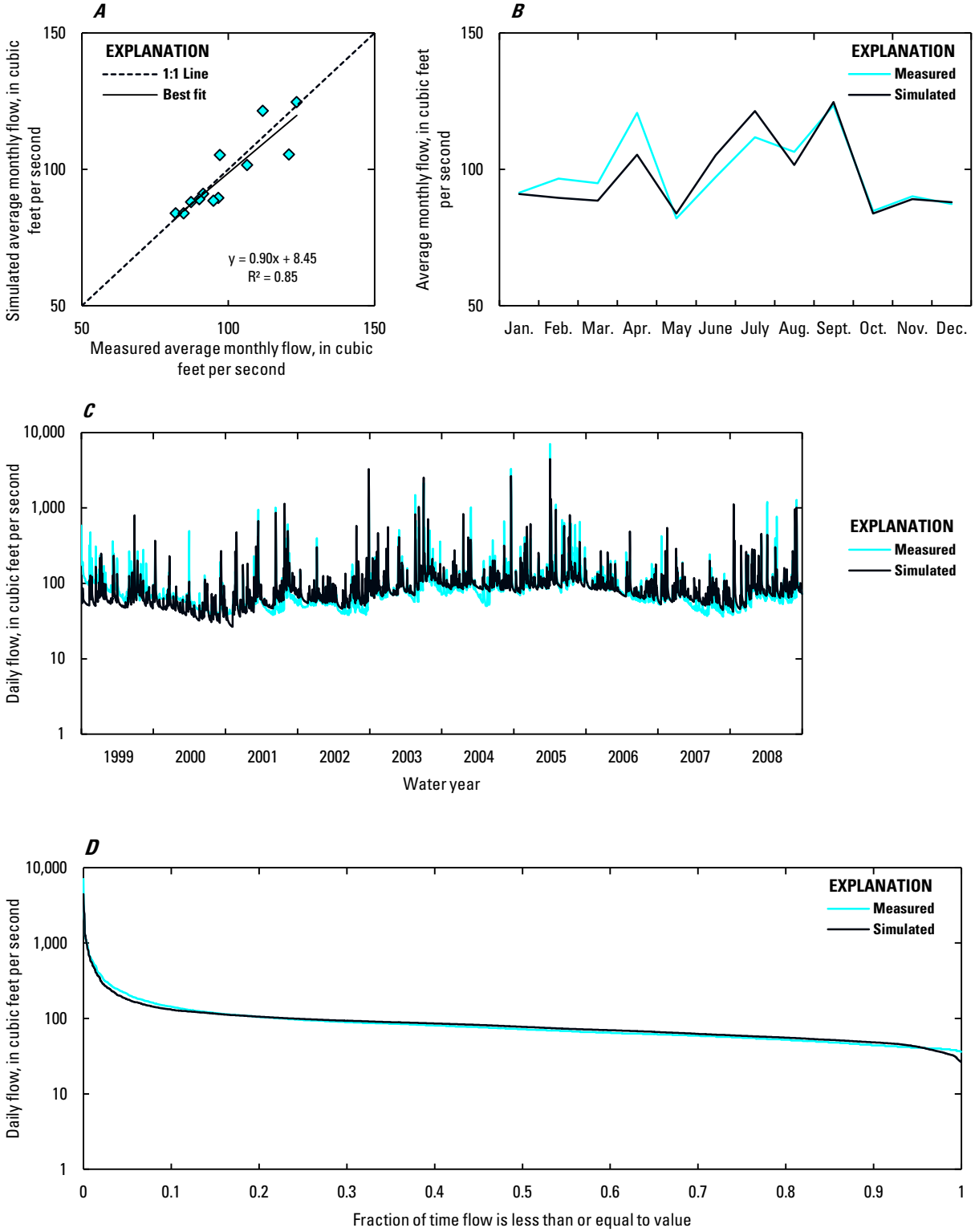

Figure A19. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1999–2008). *C*, Time series of daily flow (1999–2008). *D*, Duration curve of daily flows at USGS station 02378500, Fish River near Silver Hill, Ala. (1999–2008).

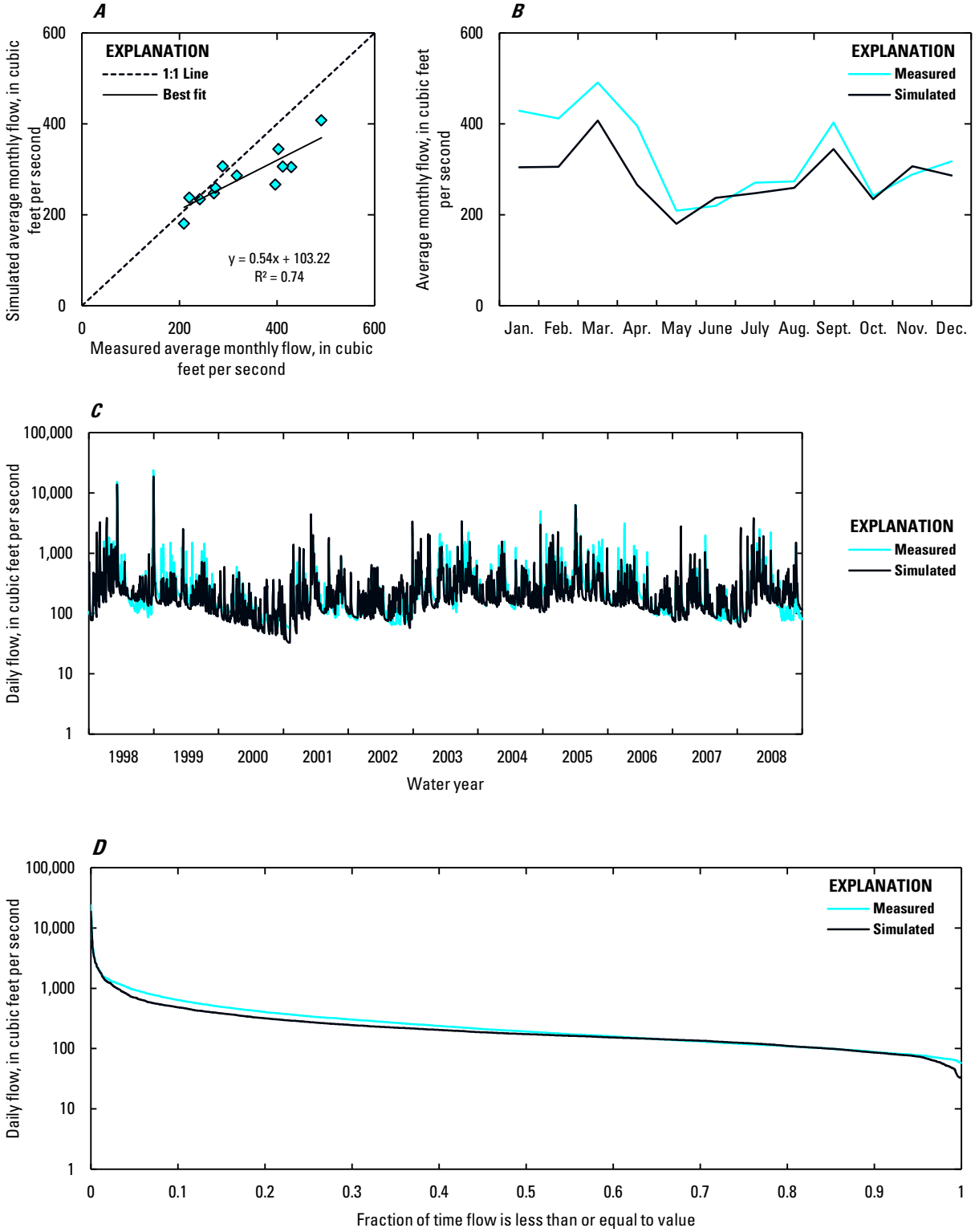

Figure A20. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02370000, Blackwater River near Baker, Fla. (1998–2008).

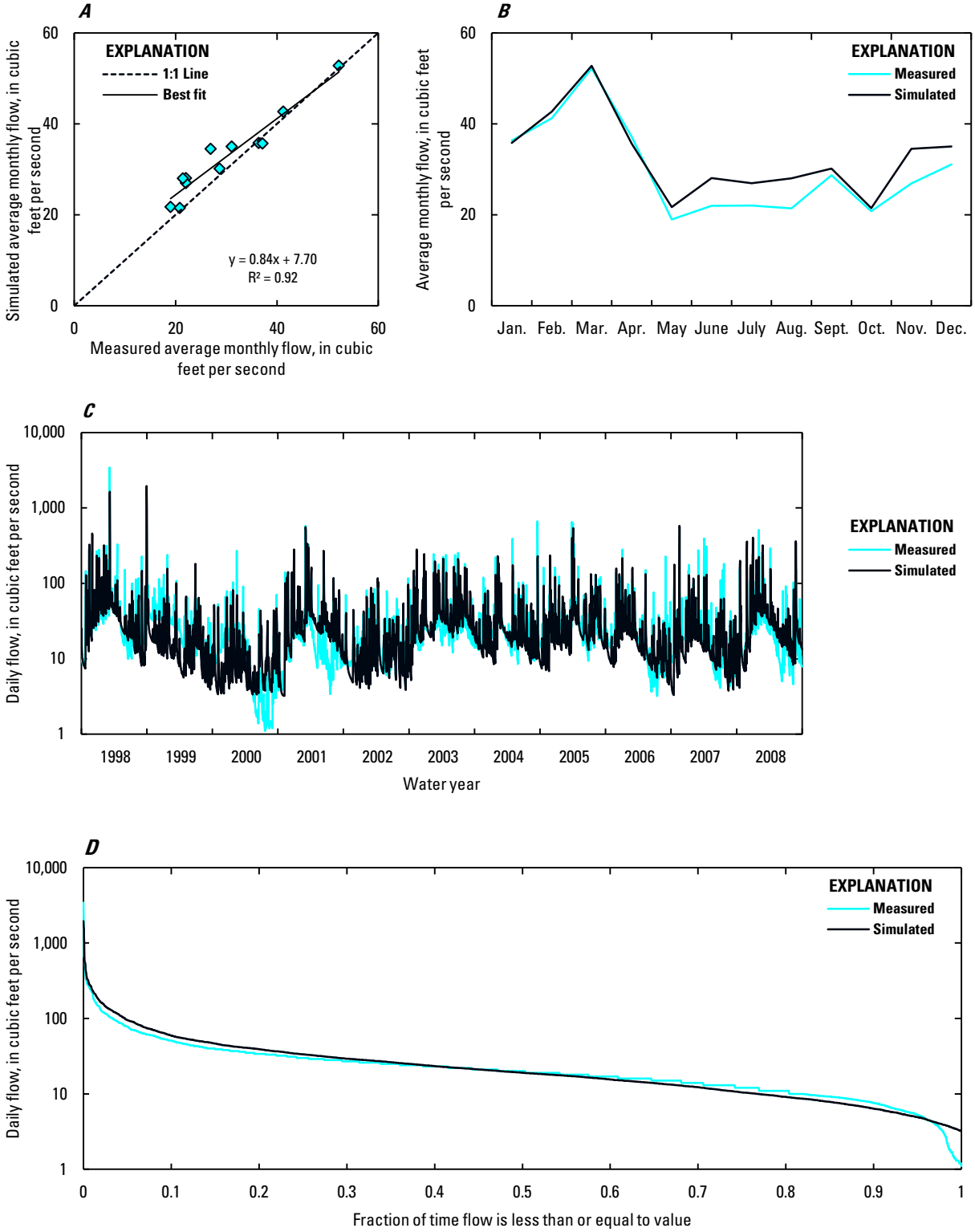

Figure A21. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02362240, Little Double Bridges Creek near Enterprise, Ala. (1998–2008).

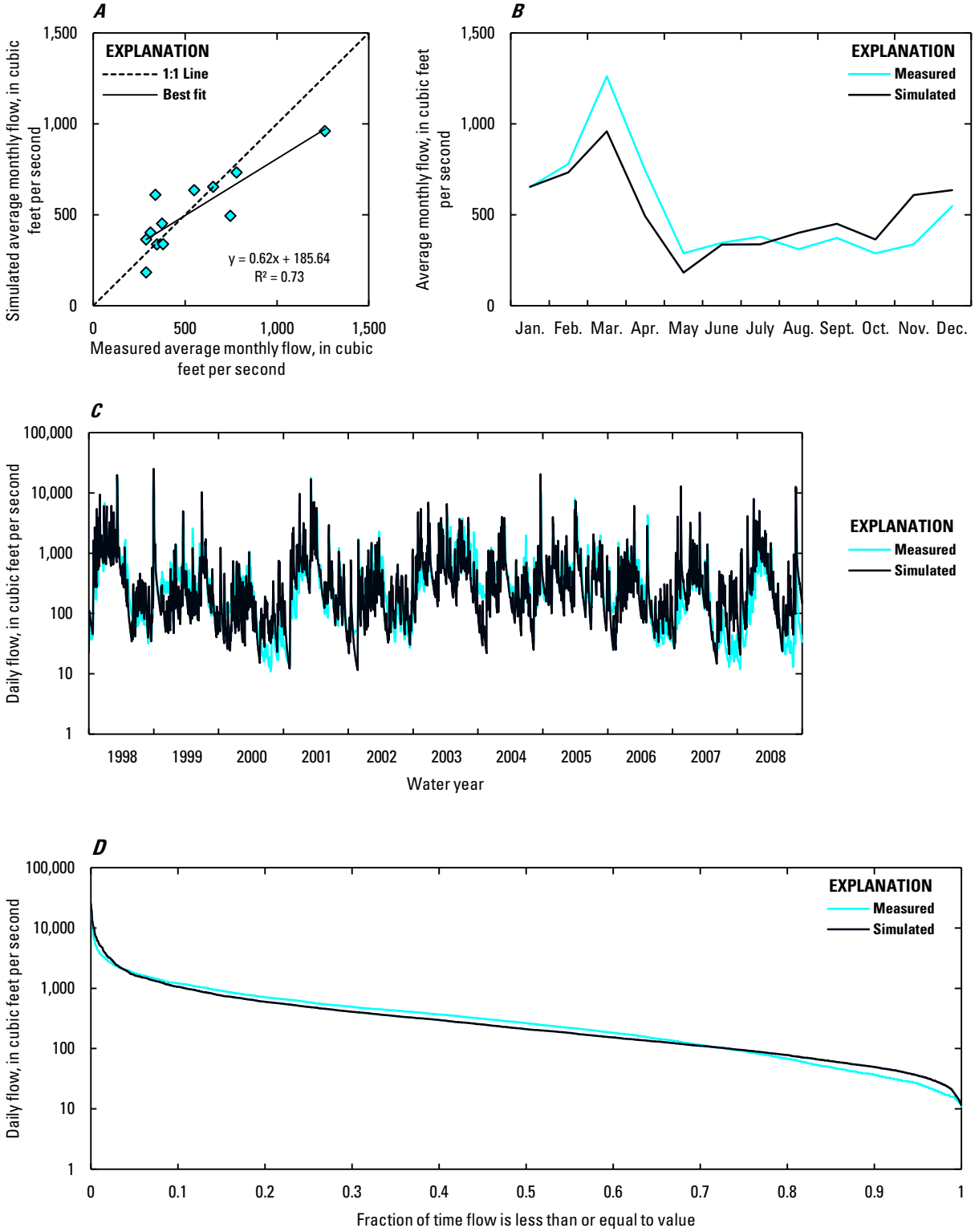

Figure A22. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02372250, Patsaliga Creek near Brantley, Ala. (1998–2008).

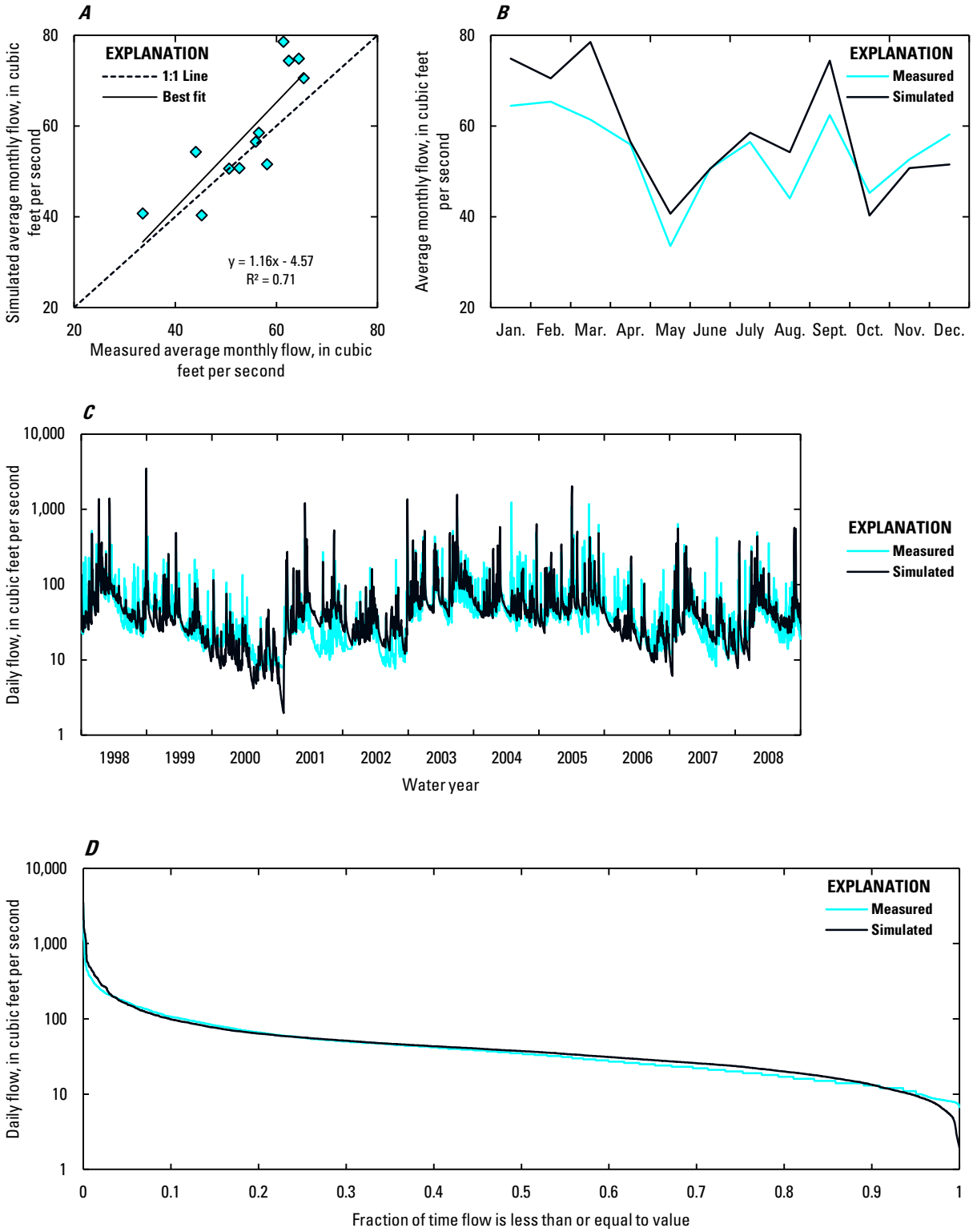

Figure A23. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02479945, Big Creek at County Road 63 near Wilmer, Ala. (1998–2008).

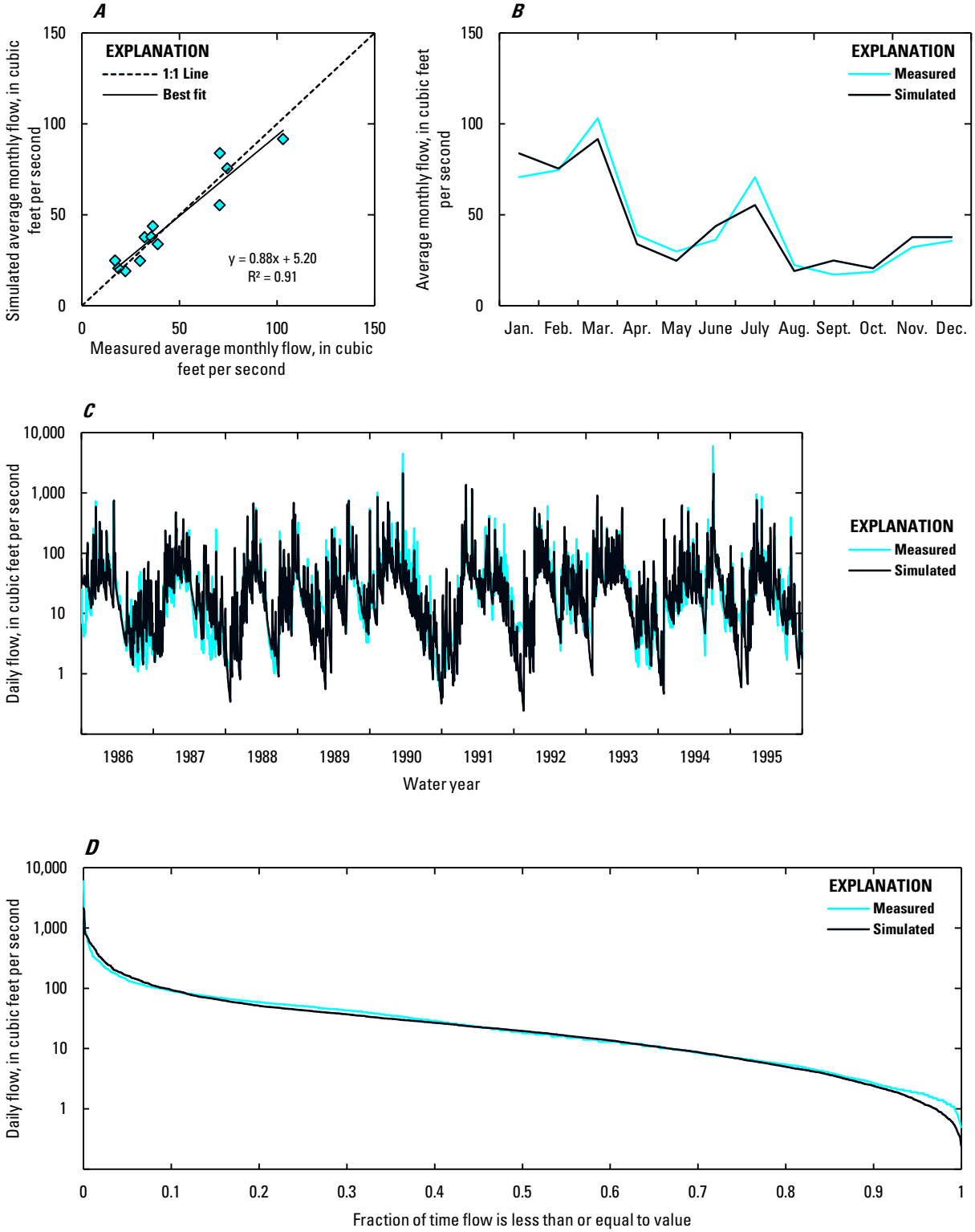

Figure A24. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1986–1995). *C*, Time series of daily flow (1986–1995). *D*, Duration curve of daily flows at USGS station 02364570, Panther Creek near Hacoda, Ala. (1986–1995).

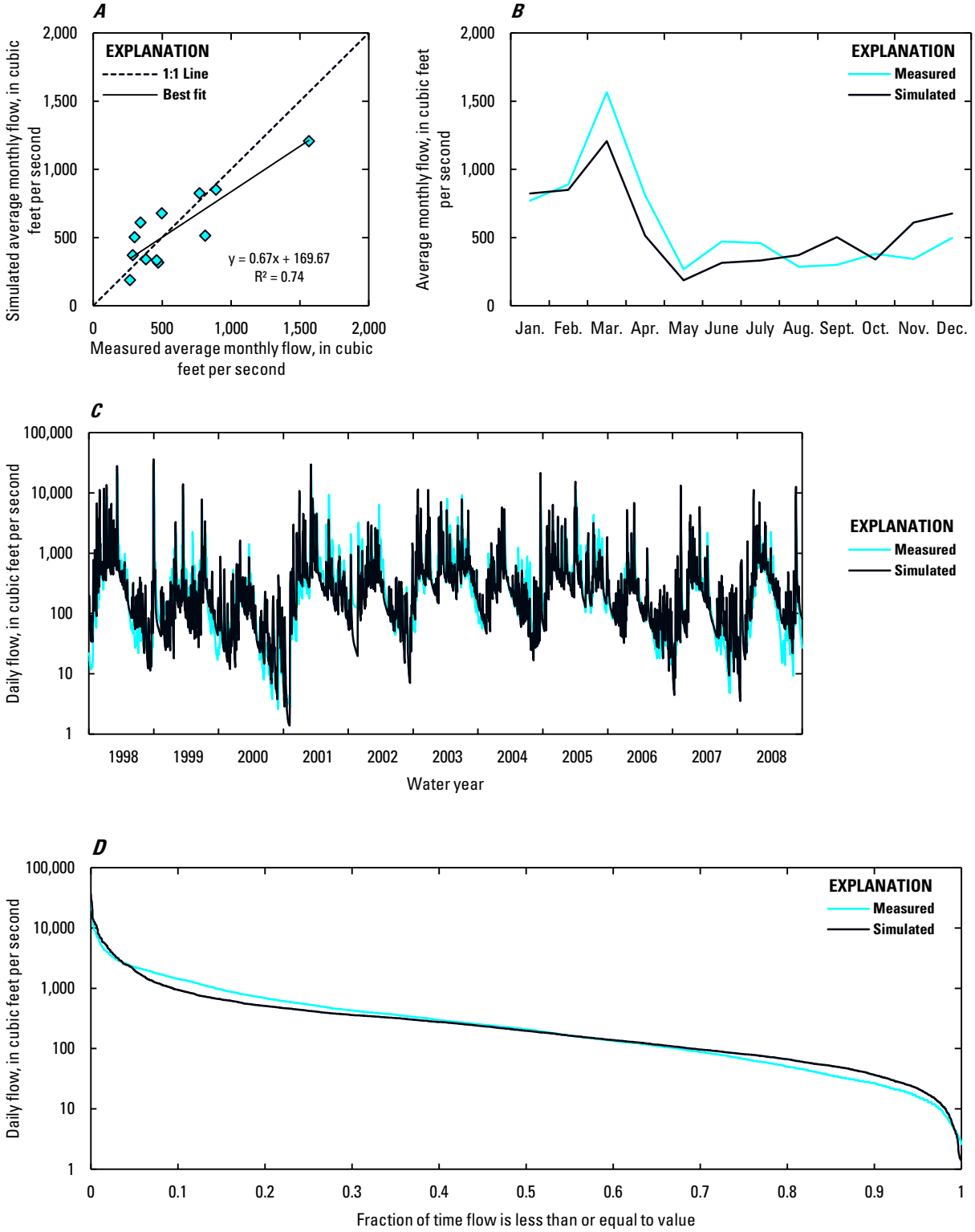

Figure A25. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02373000, Sepulga River near Mckenzie, Ala. (1998–2008).

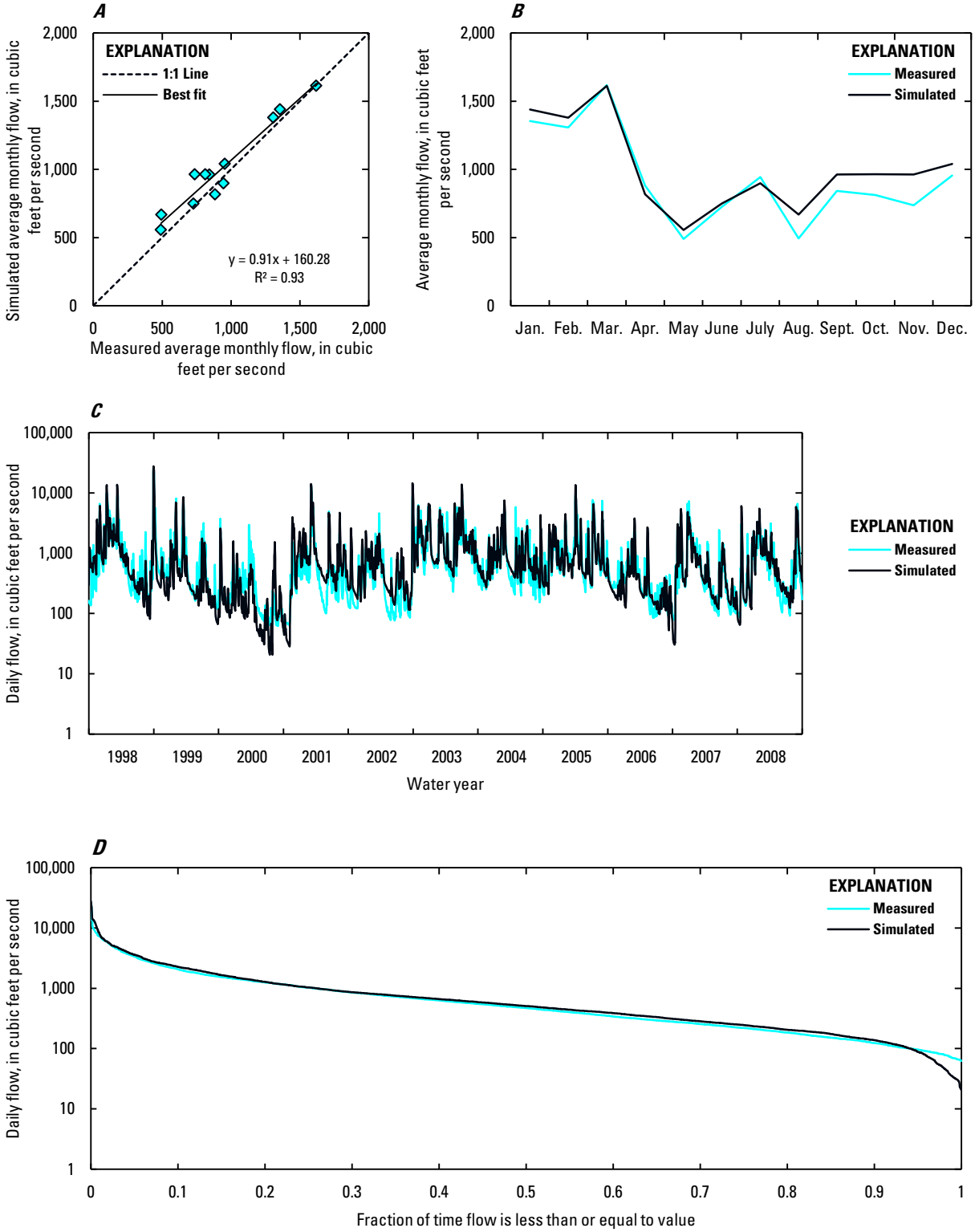

Figure A26. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02479560, Escatawpa River near Agricola, Miss. (1998–2008).

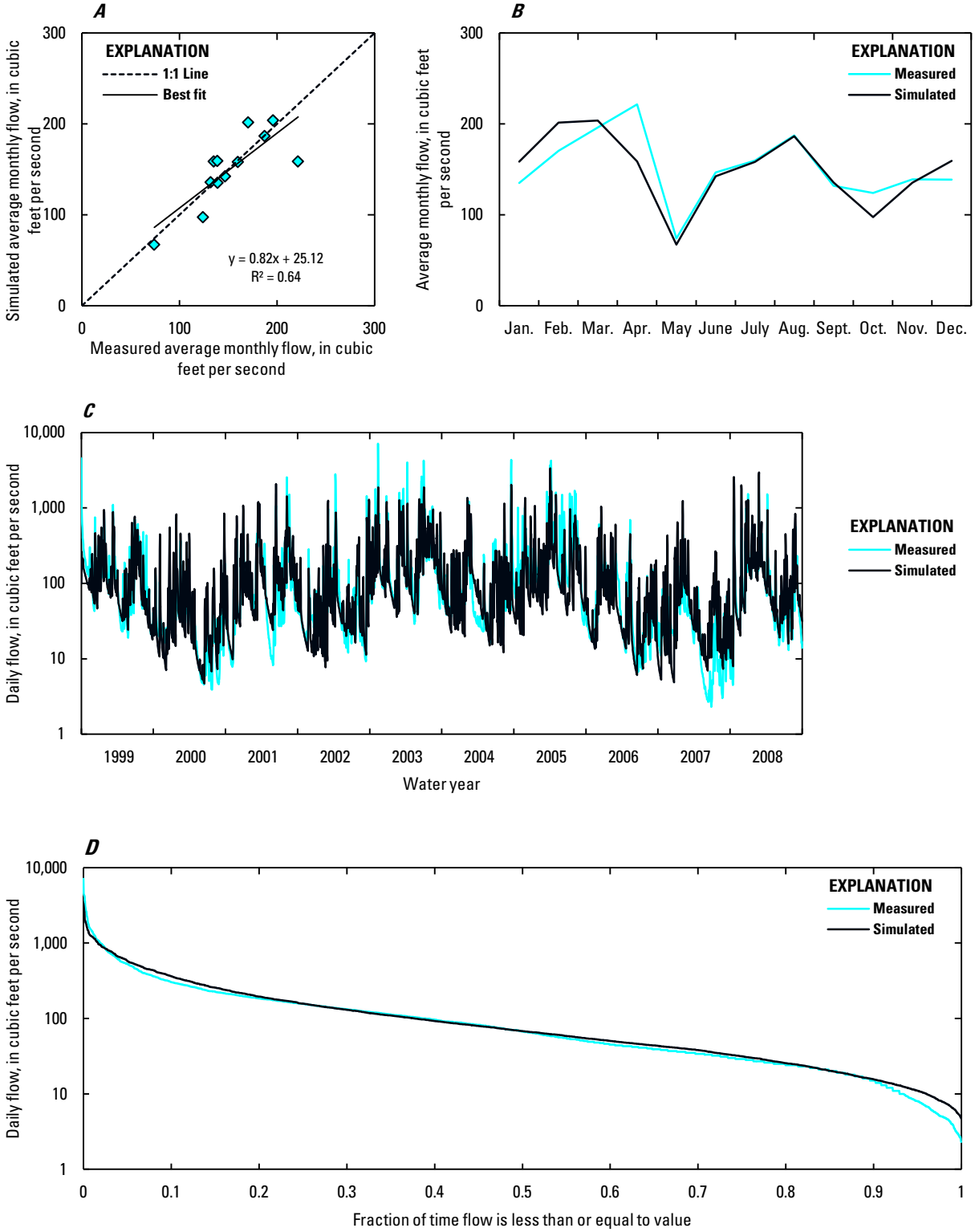

Figure A27. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1999–2008). *C*, Time series of daily flow (1999–2008). *D*, Duration curve of daily flows at USGS station 02365769, Bruce Creek at State Highway 81 near Redbay, Fla. (1999–2008).

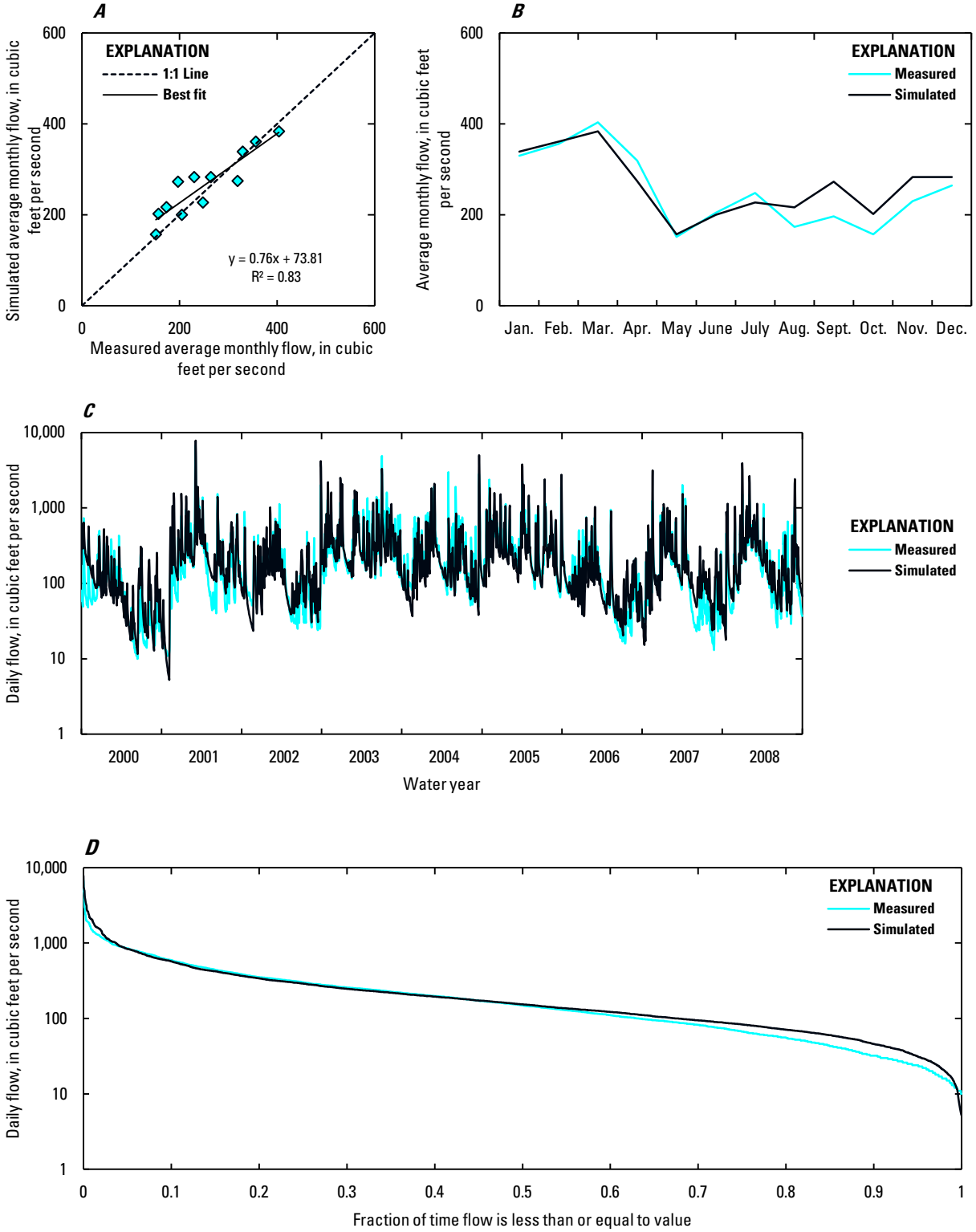

Figure A28. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (2000–2008). *C*, Time series of daily flow (2000–2008). *D*, Duration curve of daily flows at USGS station 02374745, Burnt Corn Creek at State Highway 41 near Brewton, Ala. (2000–2008).

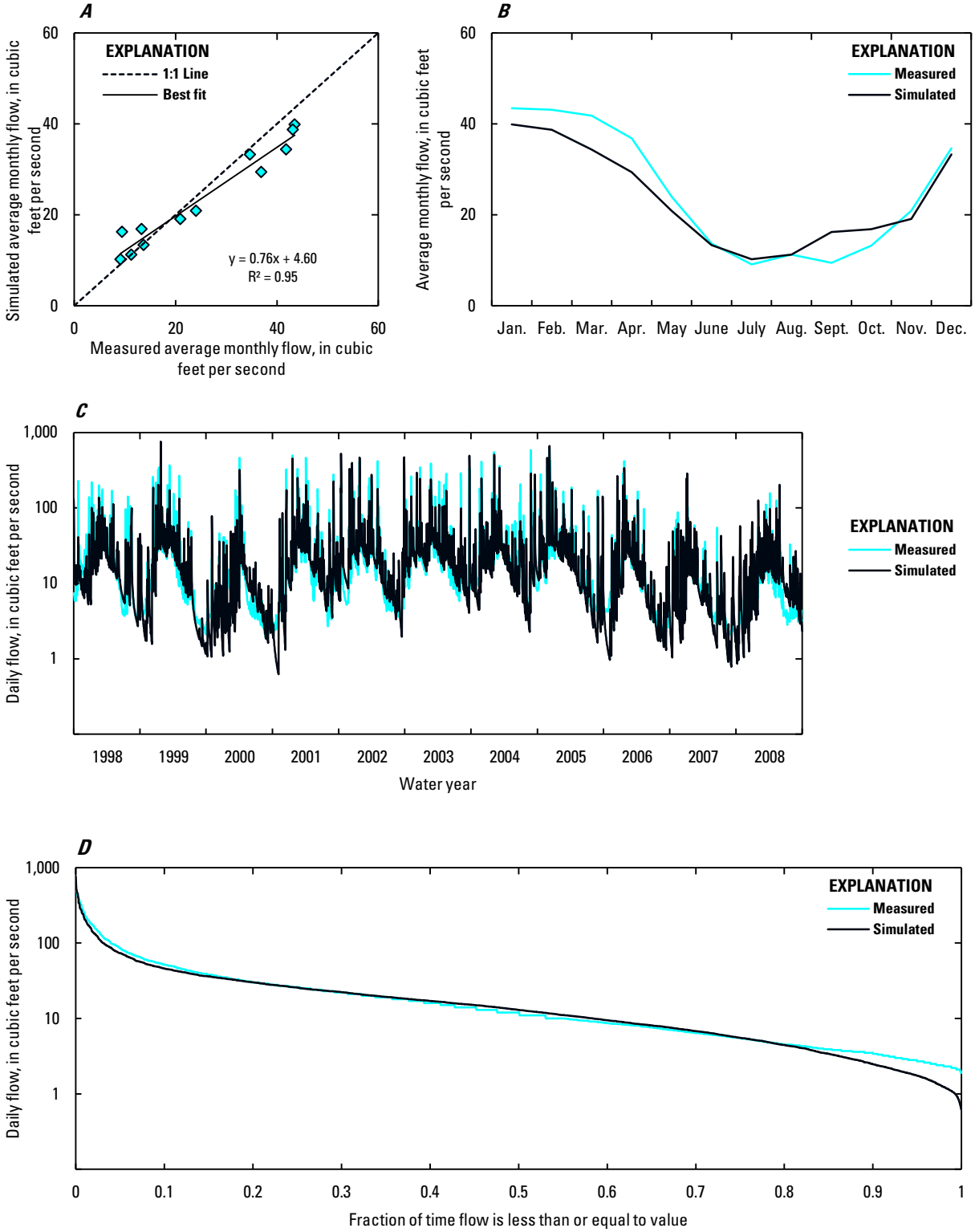

Figure A29. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02430085, Red Bud Creek near Moores Mill, Miss. (1998–2008).

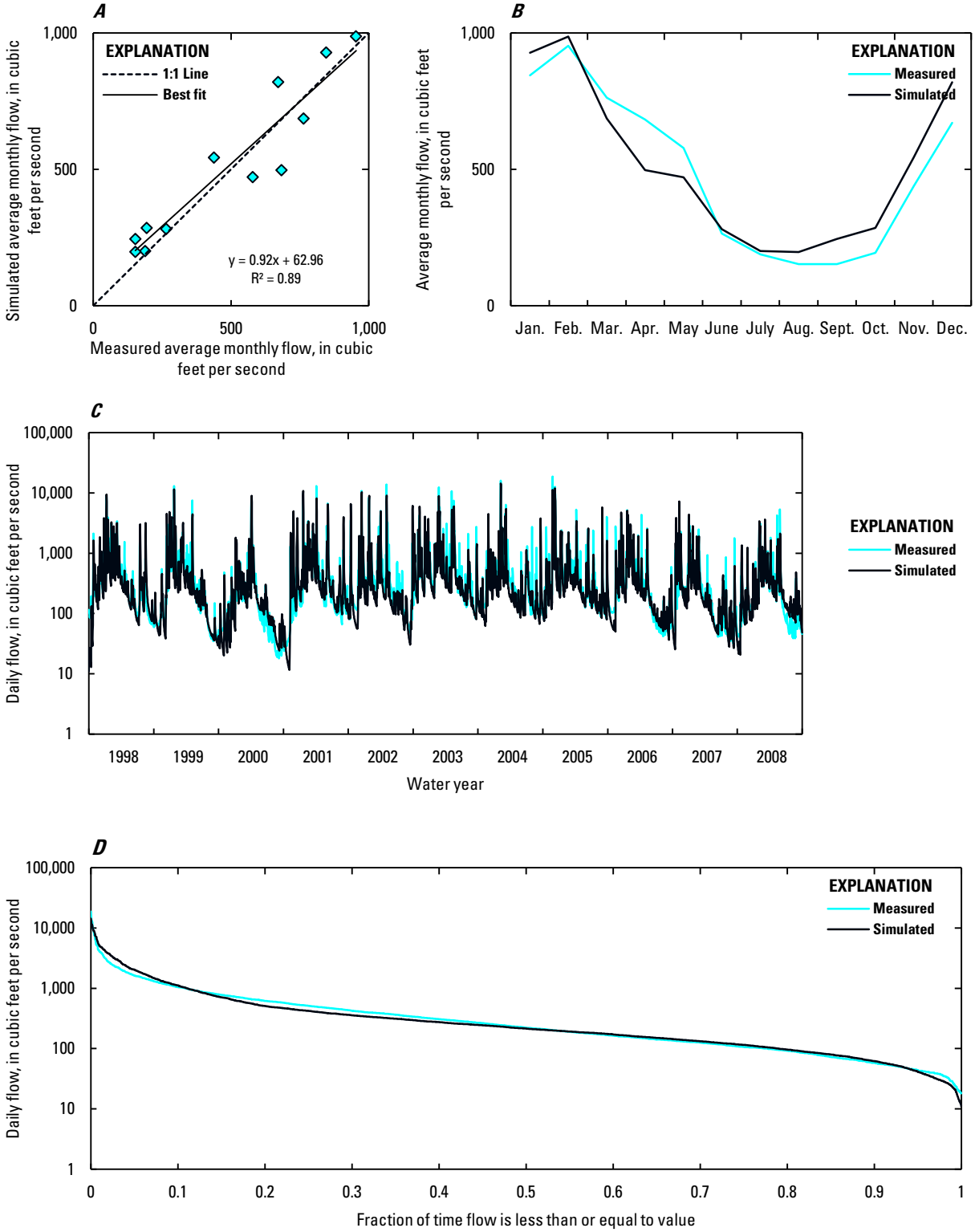

Figure A30. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02438000, Buttahatchee River below Hamilton, Ala. (1998–2008).

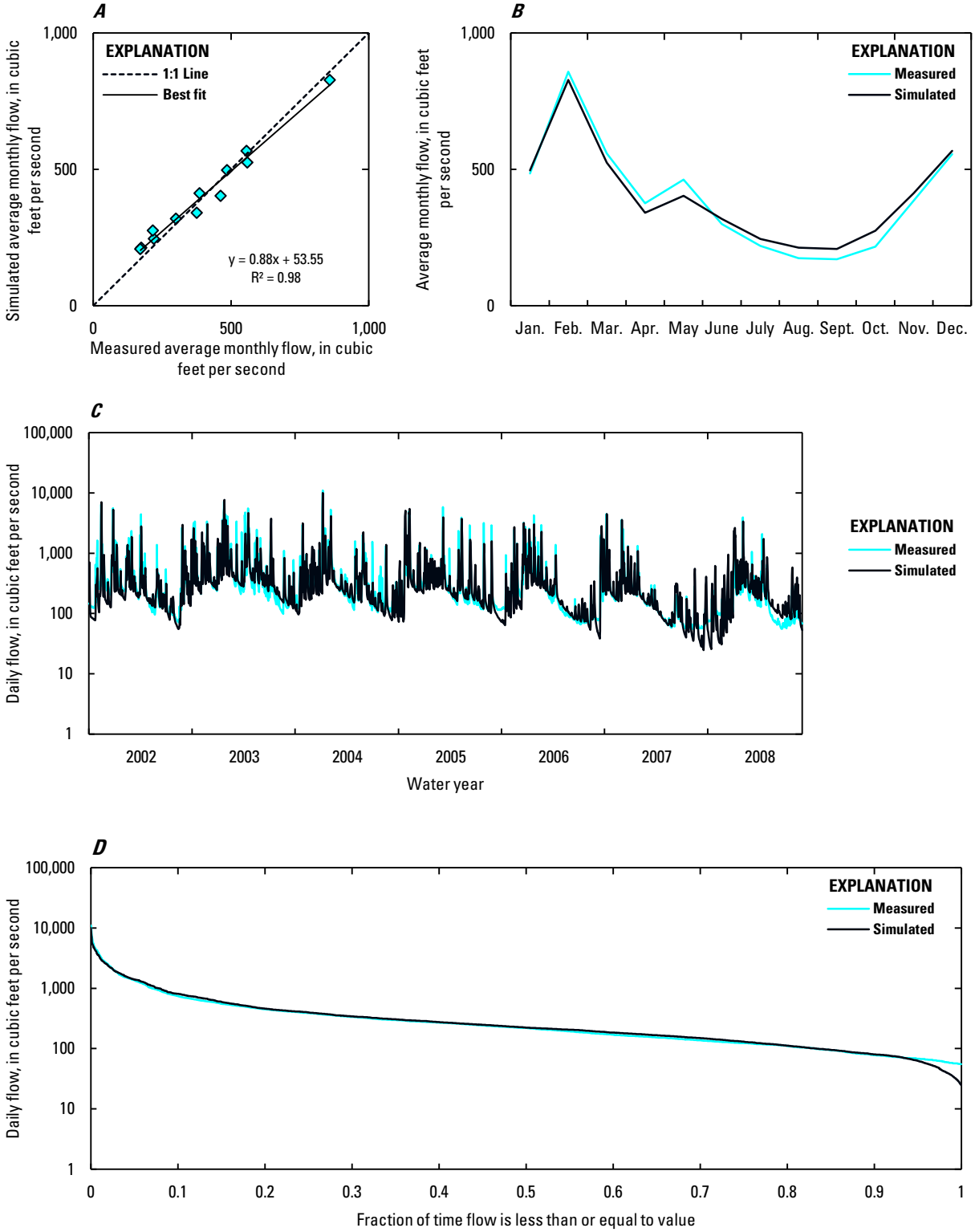

Figure A31. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (2002–2008). *C*, Time series of daily flow (2002–2008). *D*, Duration curve of daily flows at USGS station 02442500, Luxapallila Creek at Millport, Ala. (2002–2008).

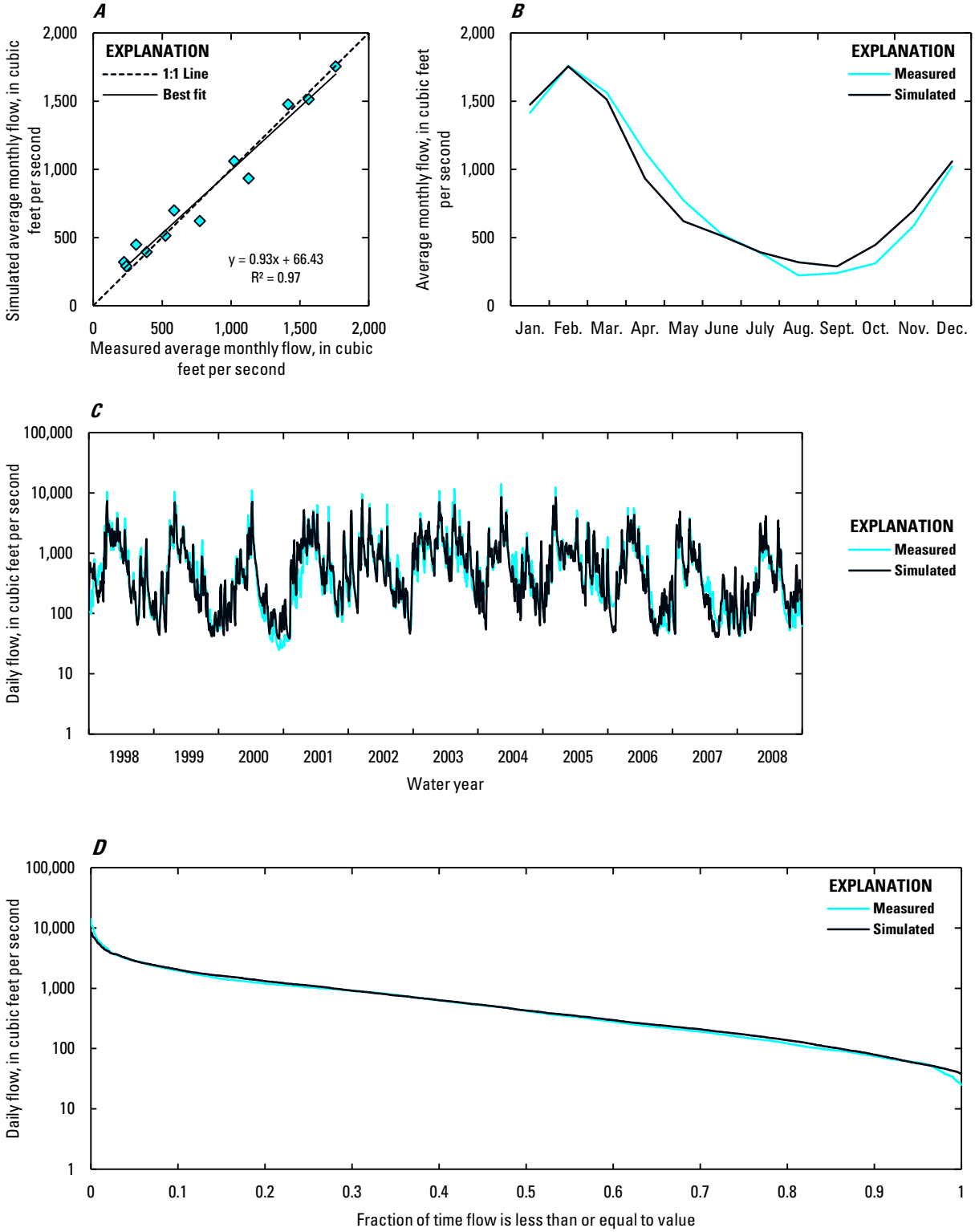

Figure A32. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02446500, Sipsey River near Elrod, Ala. (1998–2008).

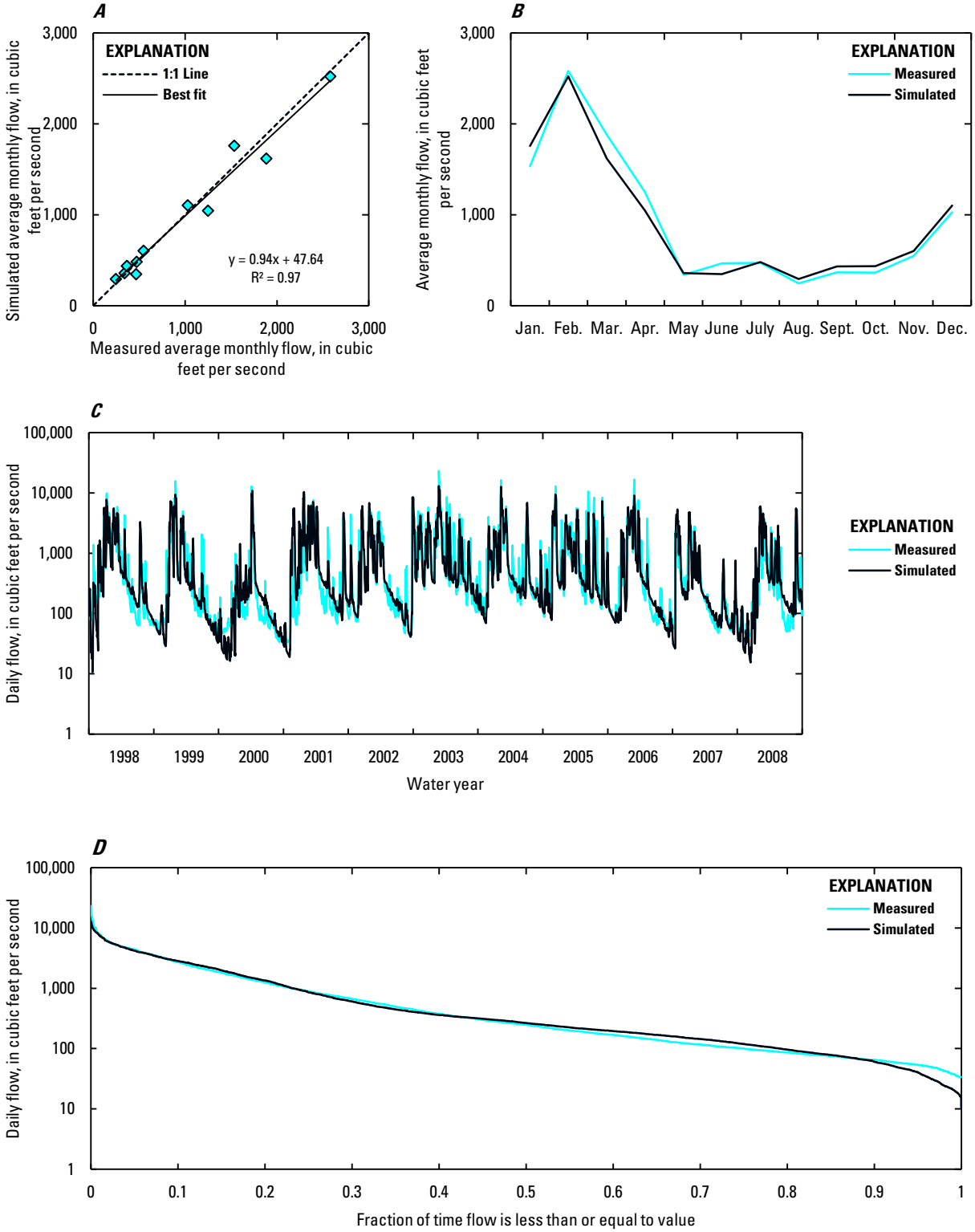

Figure A33. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02448000, Noxubee River near Macon, Miss. (1998–2008).

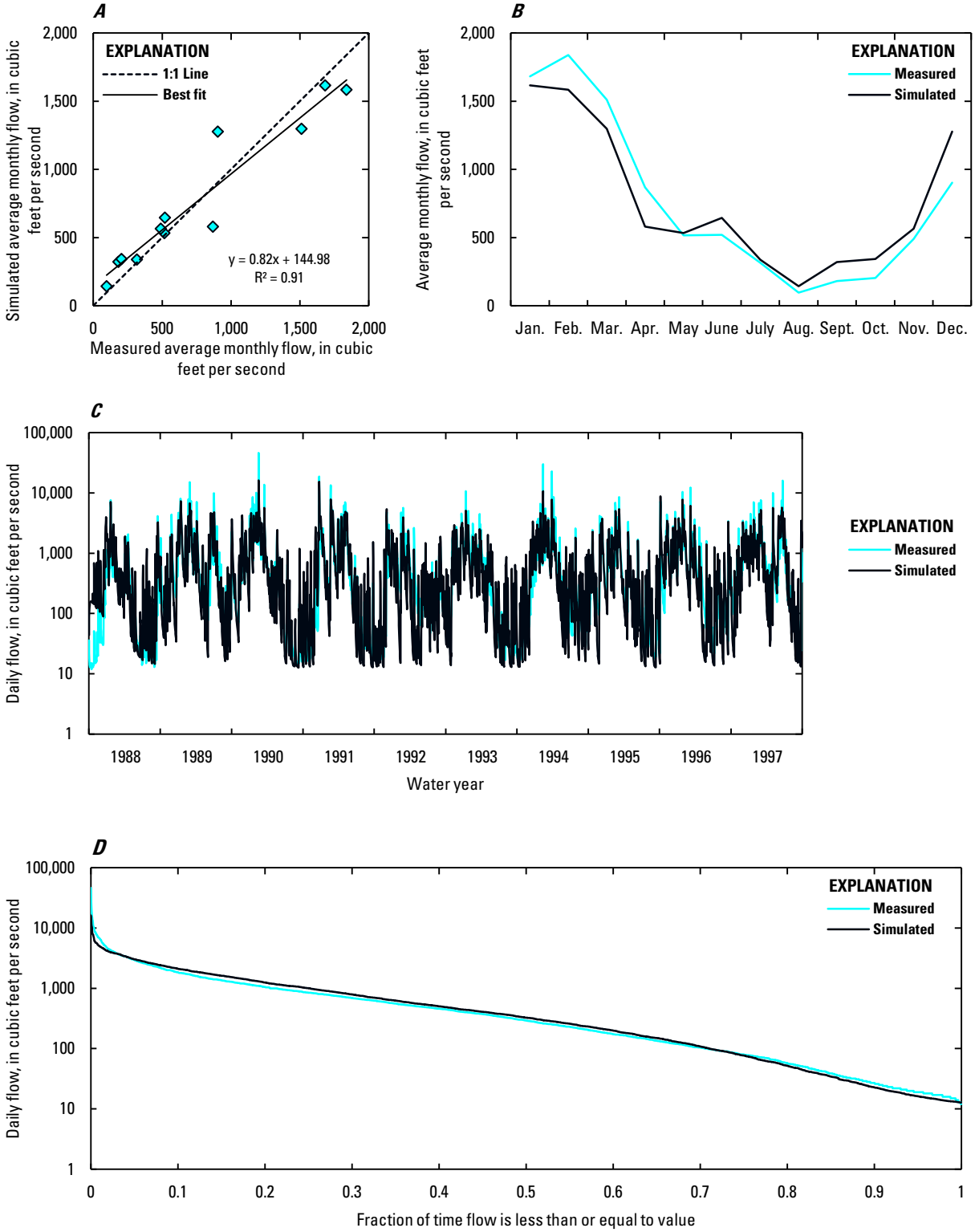

Figure A34. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1988–1997). *C*, Time series of daily flow (1988–1997). *D*, Duration curve of daily flows at USGS station 02450000, Mulberry Fork near Garden City, Ala. (1988–1997).

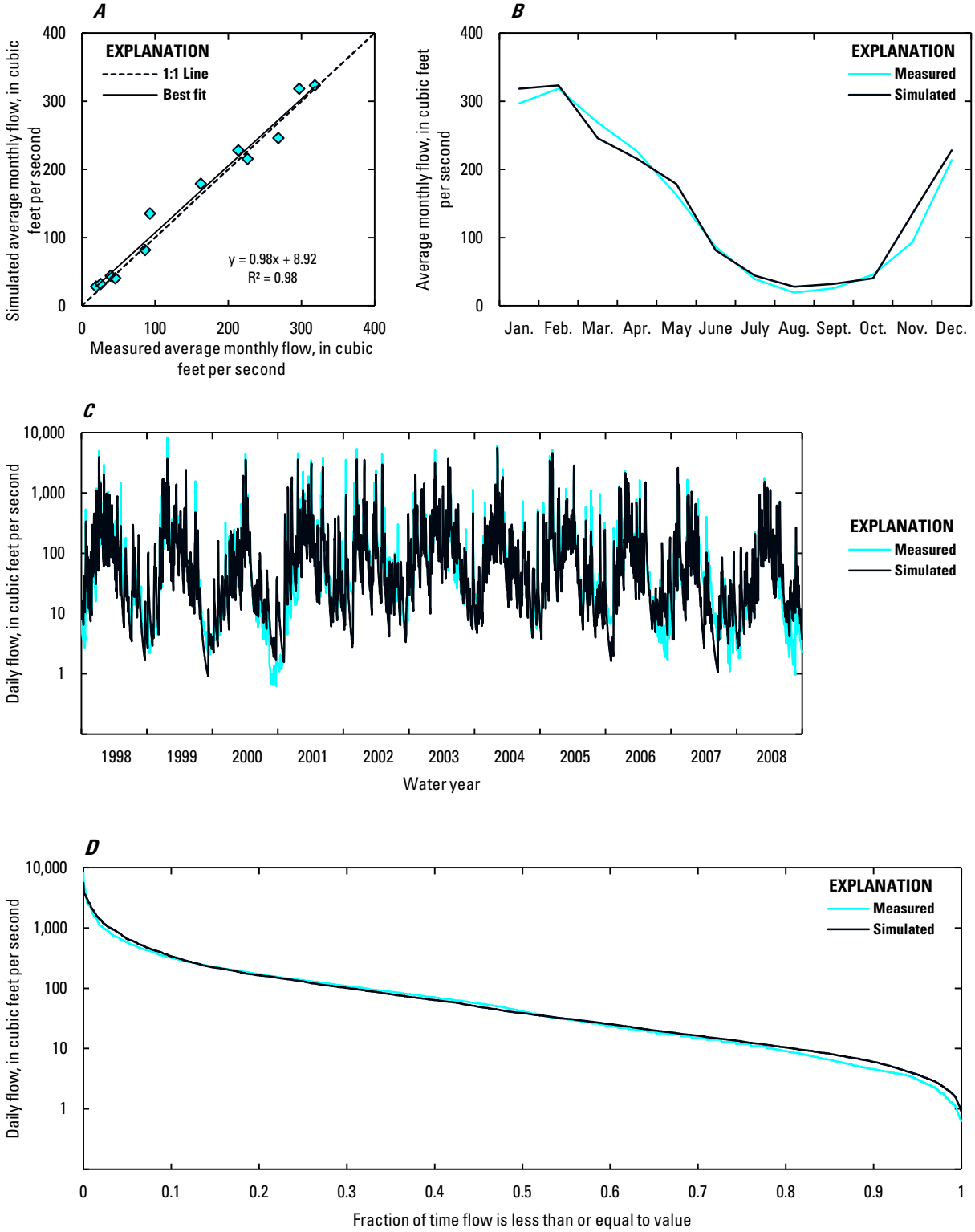

Figure A35. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02450250, Sipsey Fork near Grayson, Ala. (1998–2008).

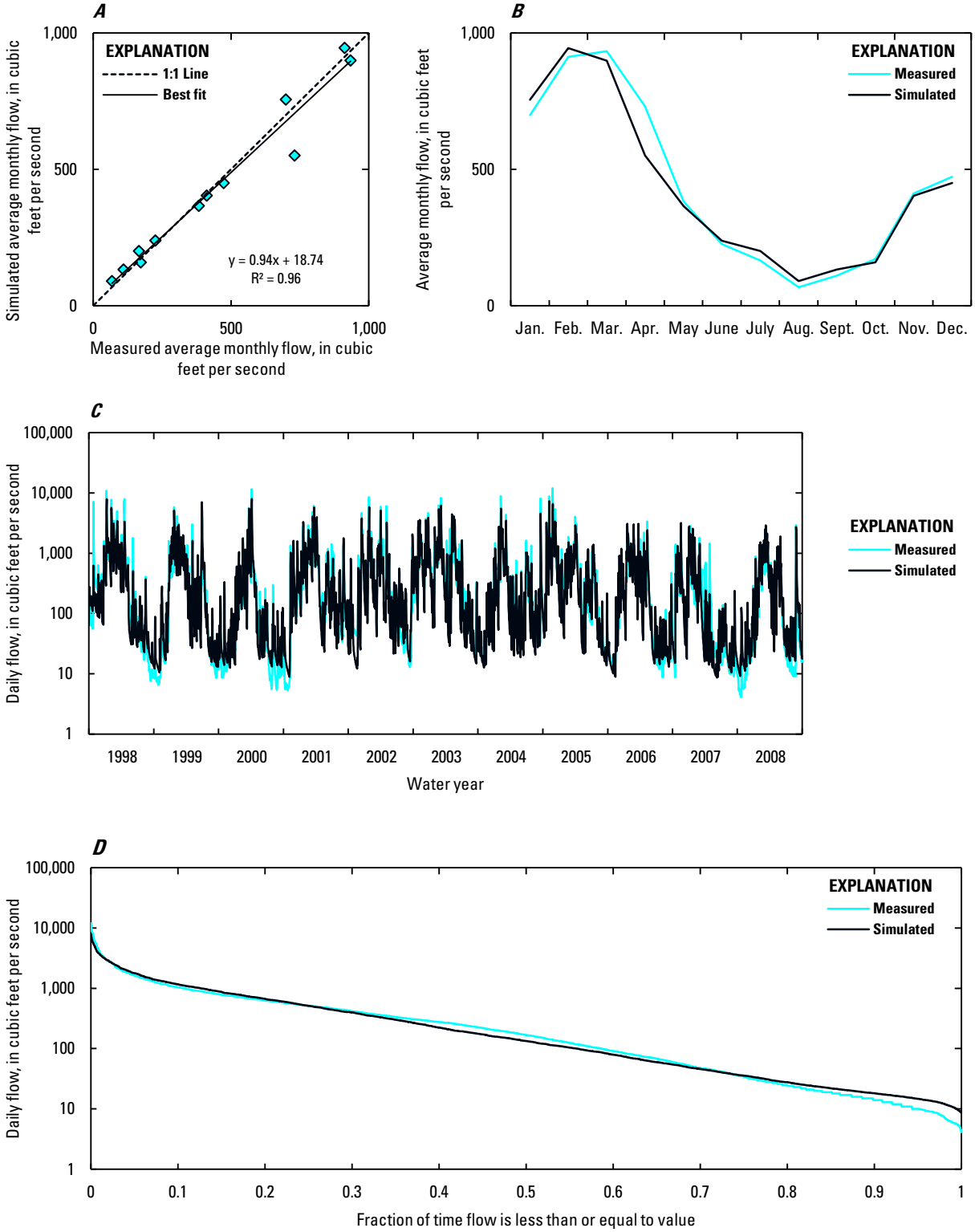

Figure A36. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02455000, Locust Fork near Cleveland, Ala. (1998–2008).

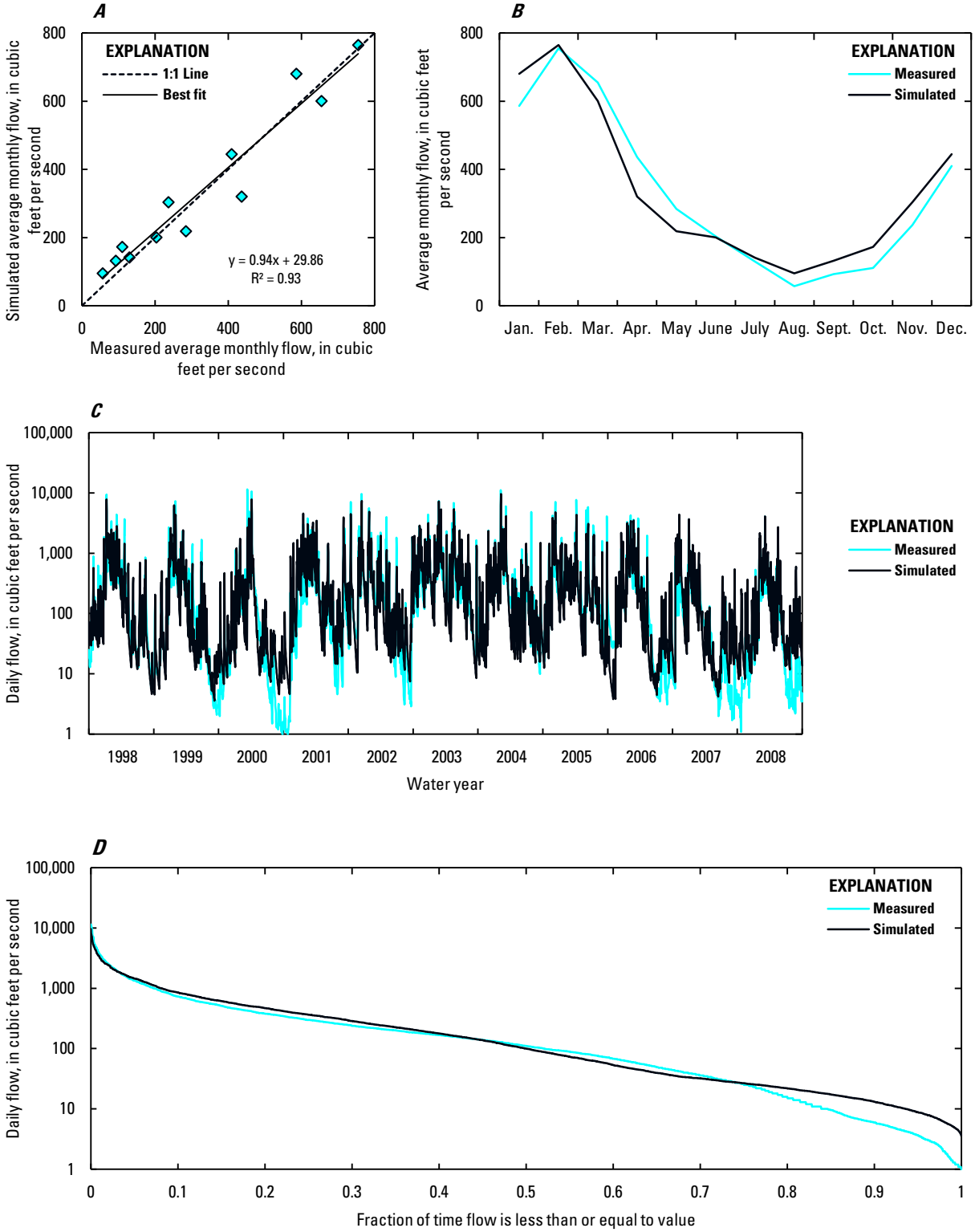

Figure A37. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02464000, North River near Samantha, Ala. (1998–2008).

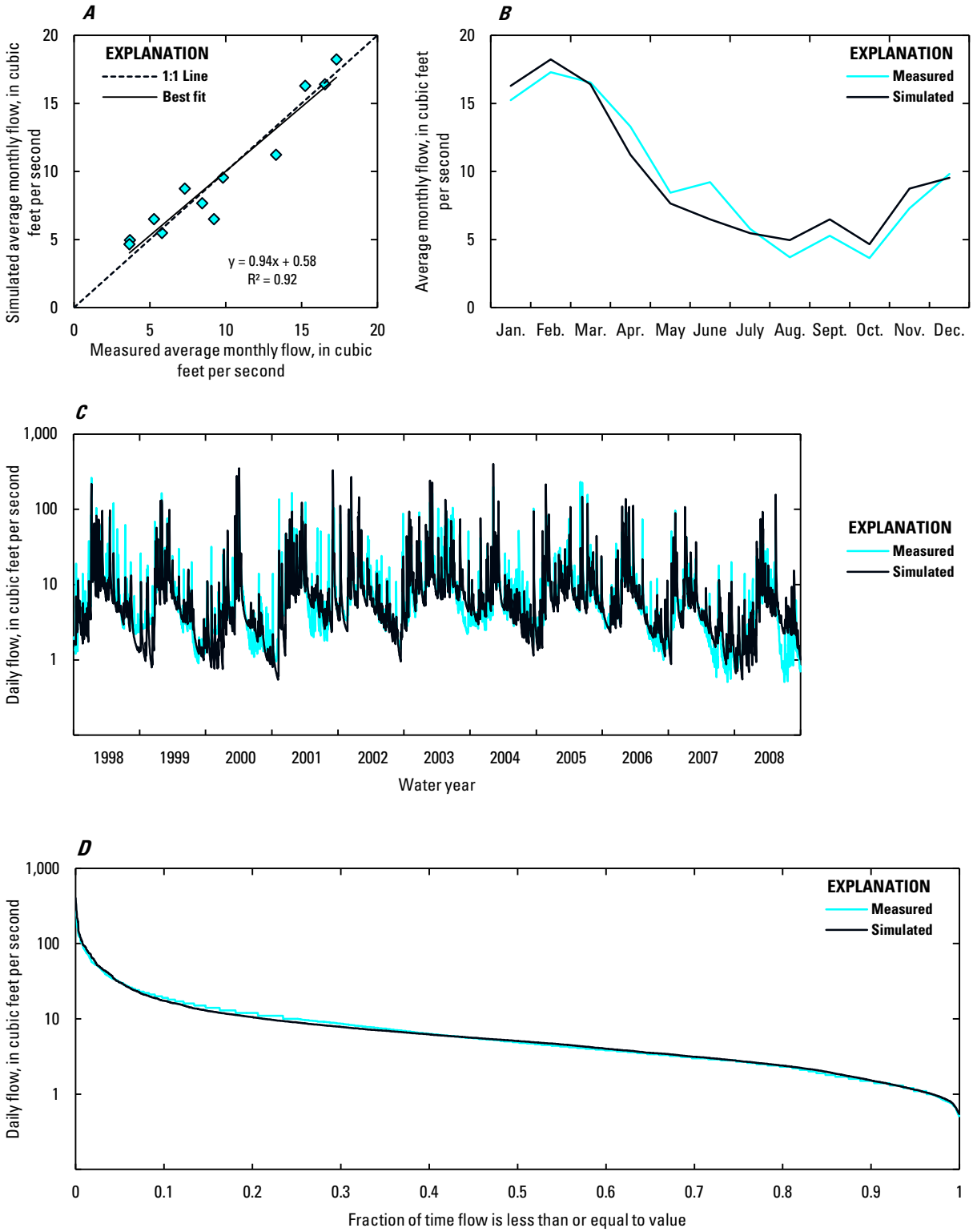

Figure A38. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02464146, Turkey Creek near Tuscaloosa, Ala. (1998–2008).

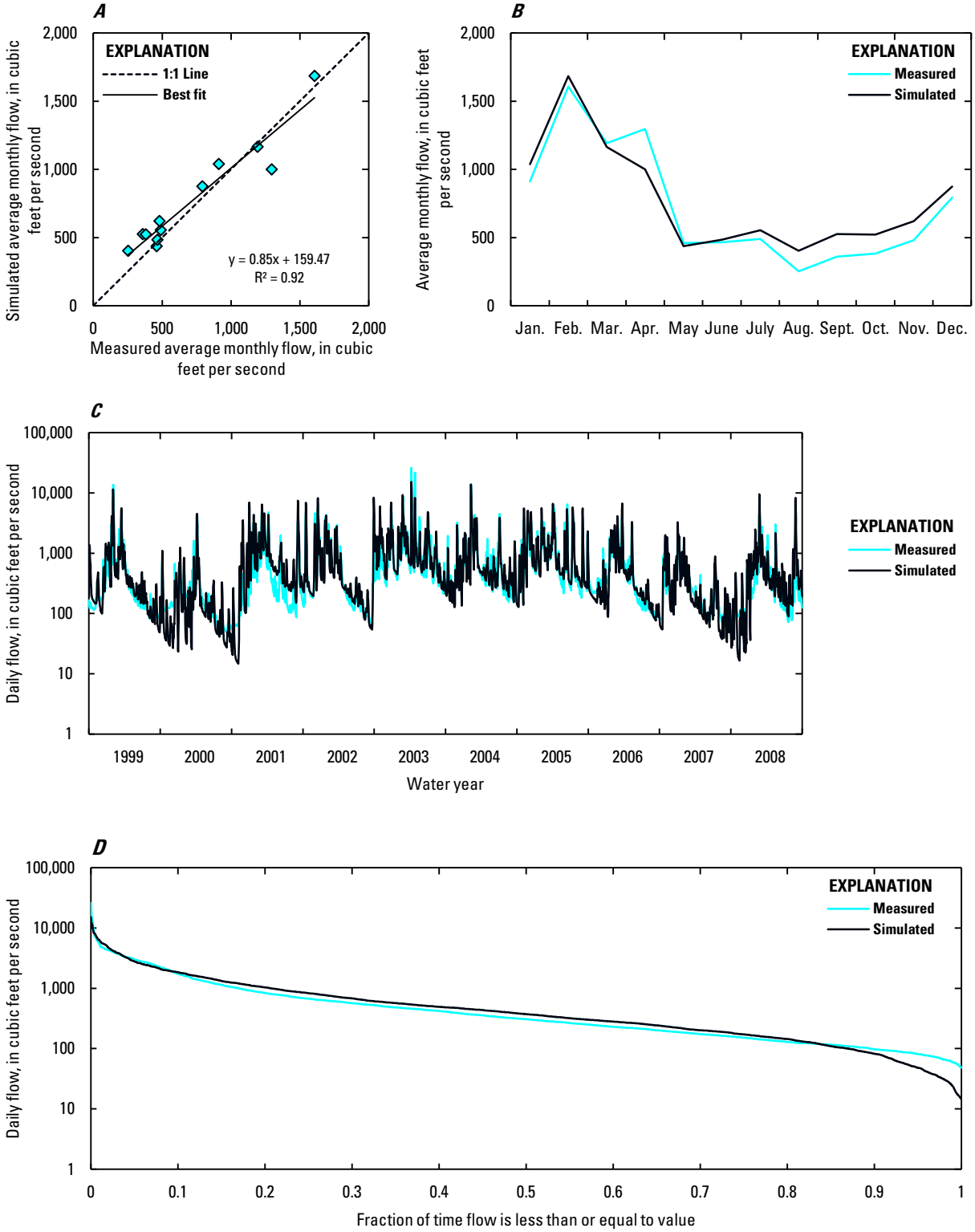

Figure A39. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1999–2008). *C*, Time series of daily flow (1999–2008). *D*, Duration curve of daily flows at USGS station 02467500, Sucarnoochee River at Livingston, Ala. (1999–2008).

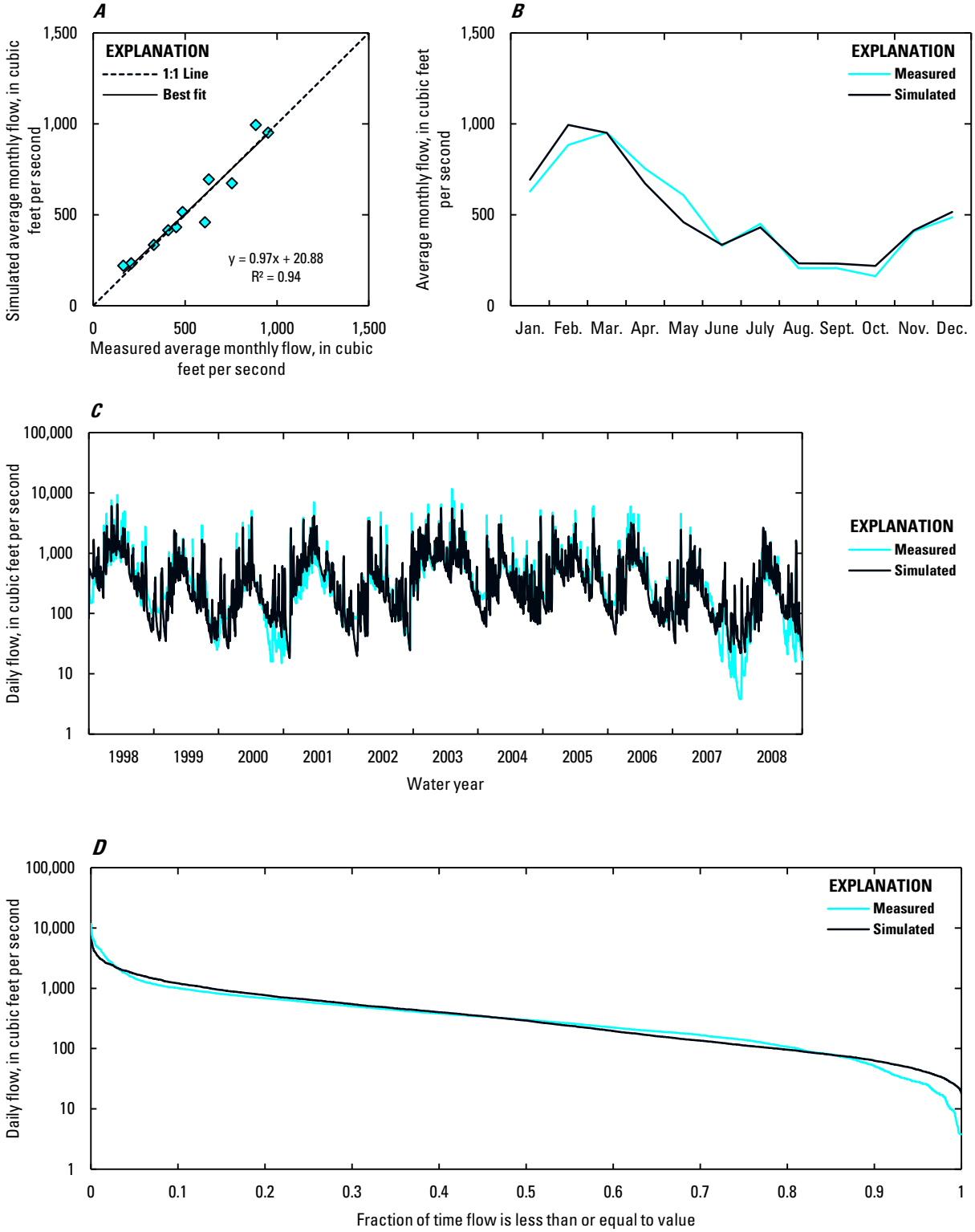

Figure A40. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02412000, Tallapoosa River near Heflin, Ala. (1998–2008).

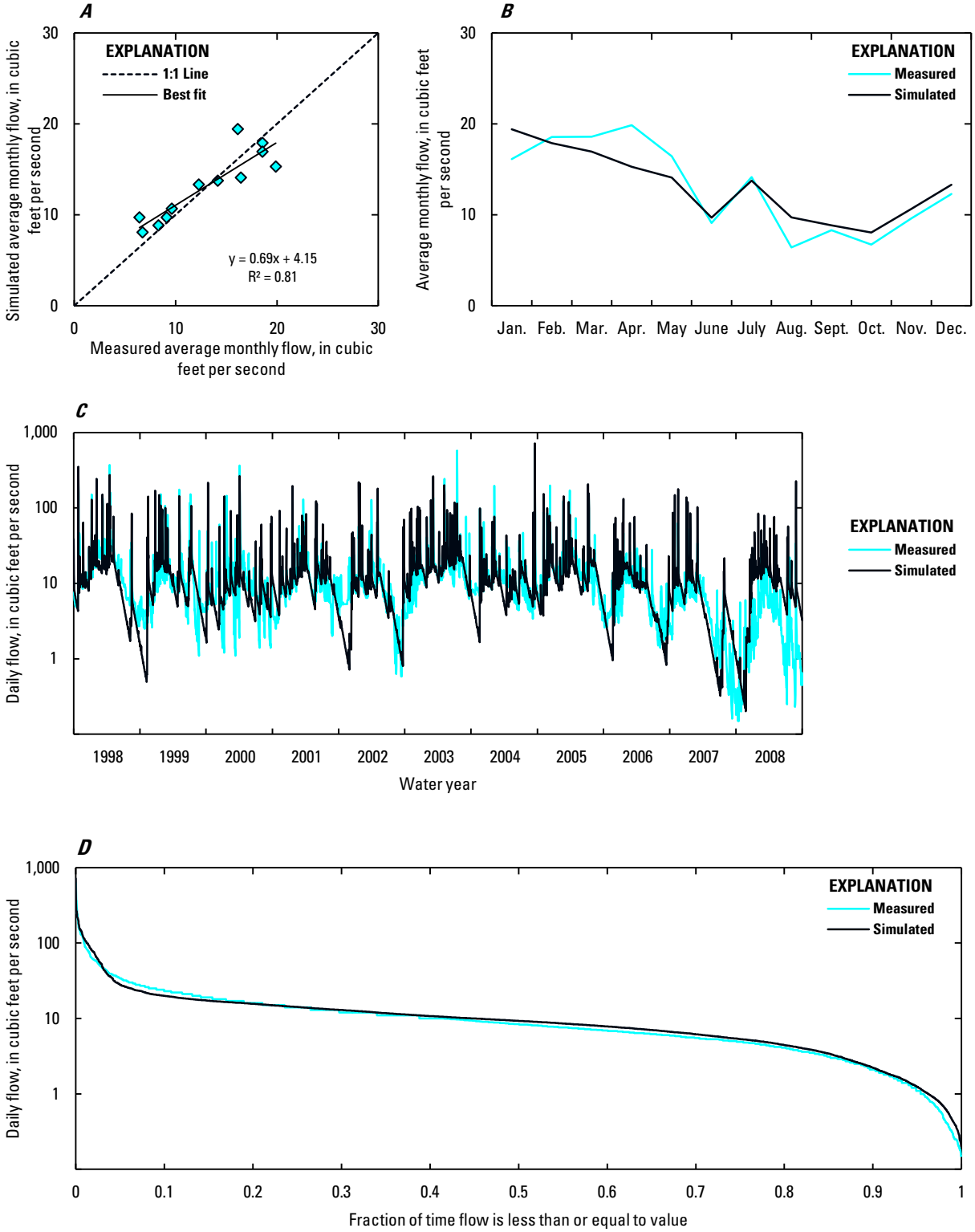

Figure A41. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02381600, Fausett Creek near Talking Rock, Ga. (1998–2008).

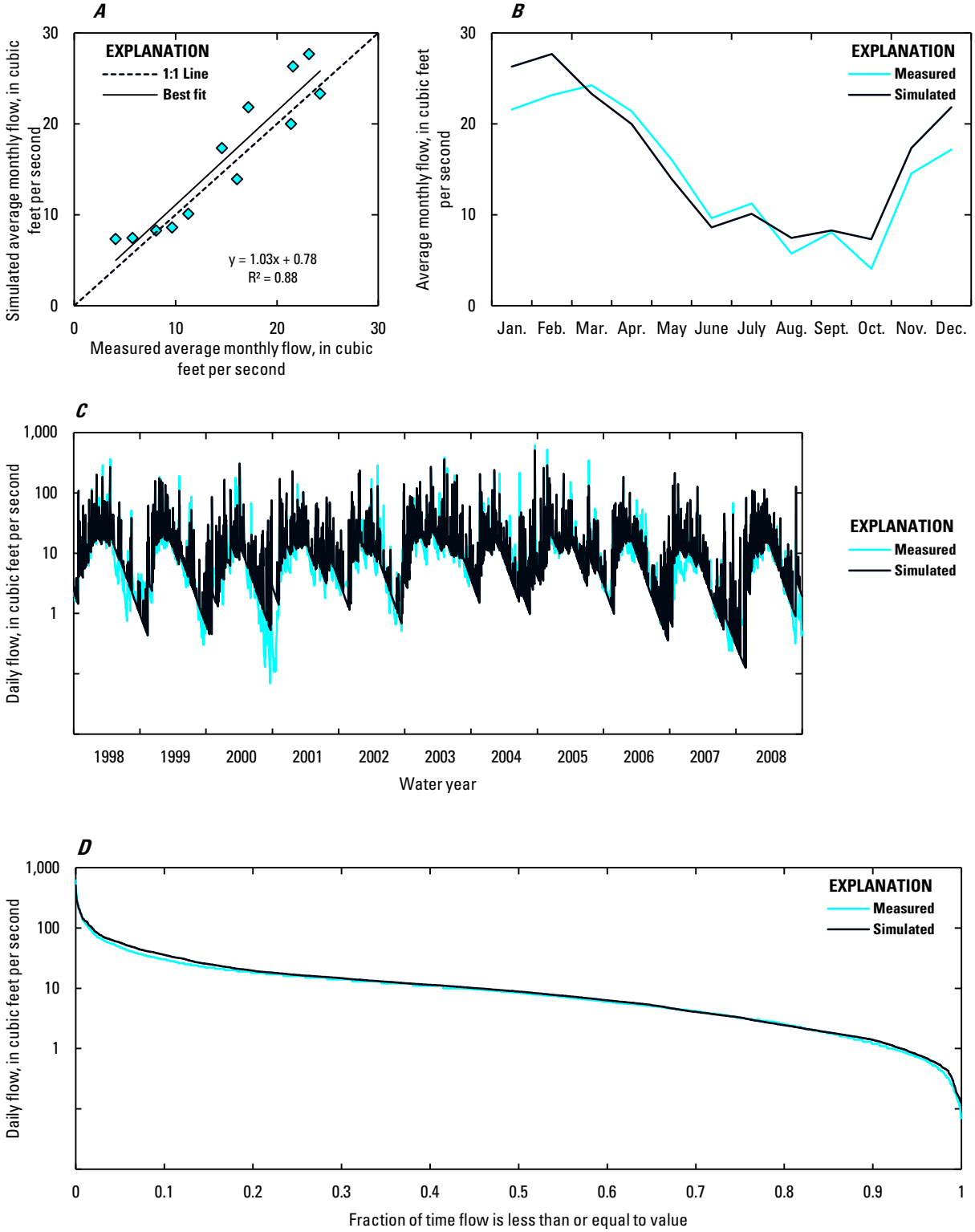

Figure A42. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02384540, Mill Creek near Crandall, Ga. (1998–2008).

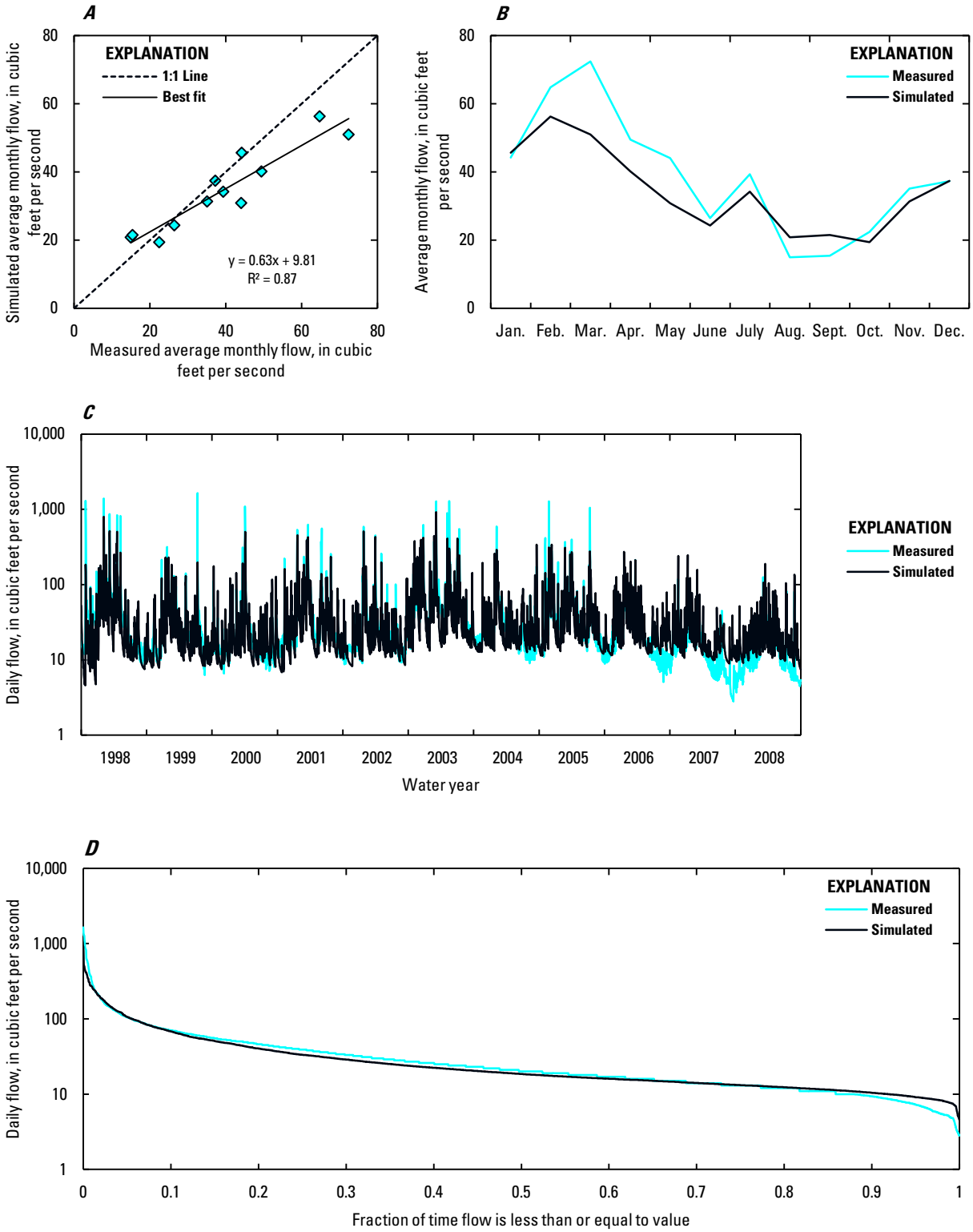

Figure A43. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02395120, Two Run Creek near Kingston, Ga. (1998–2008).

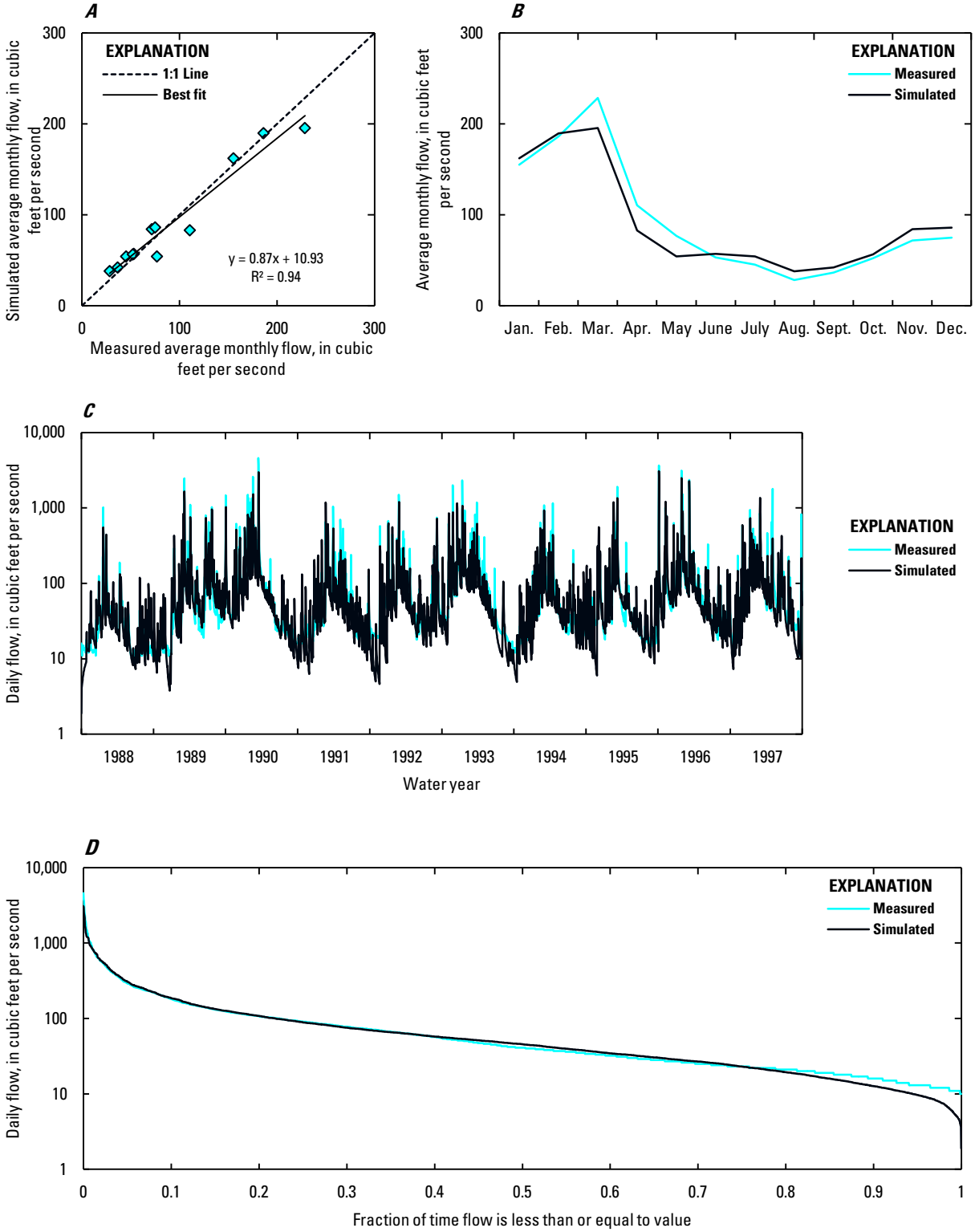

Figure A44. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1988–1997). *C*, Time series of daily flow (1988–1997). *D*, Duration curve of daily flows at USGS station 02397410, Cedar Creek at GA Ave at Cedartown, Ga. (1988–1997).

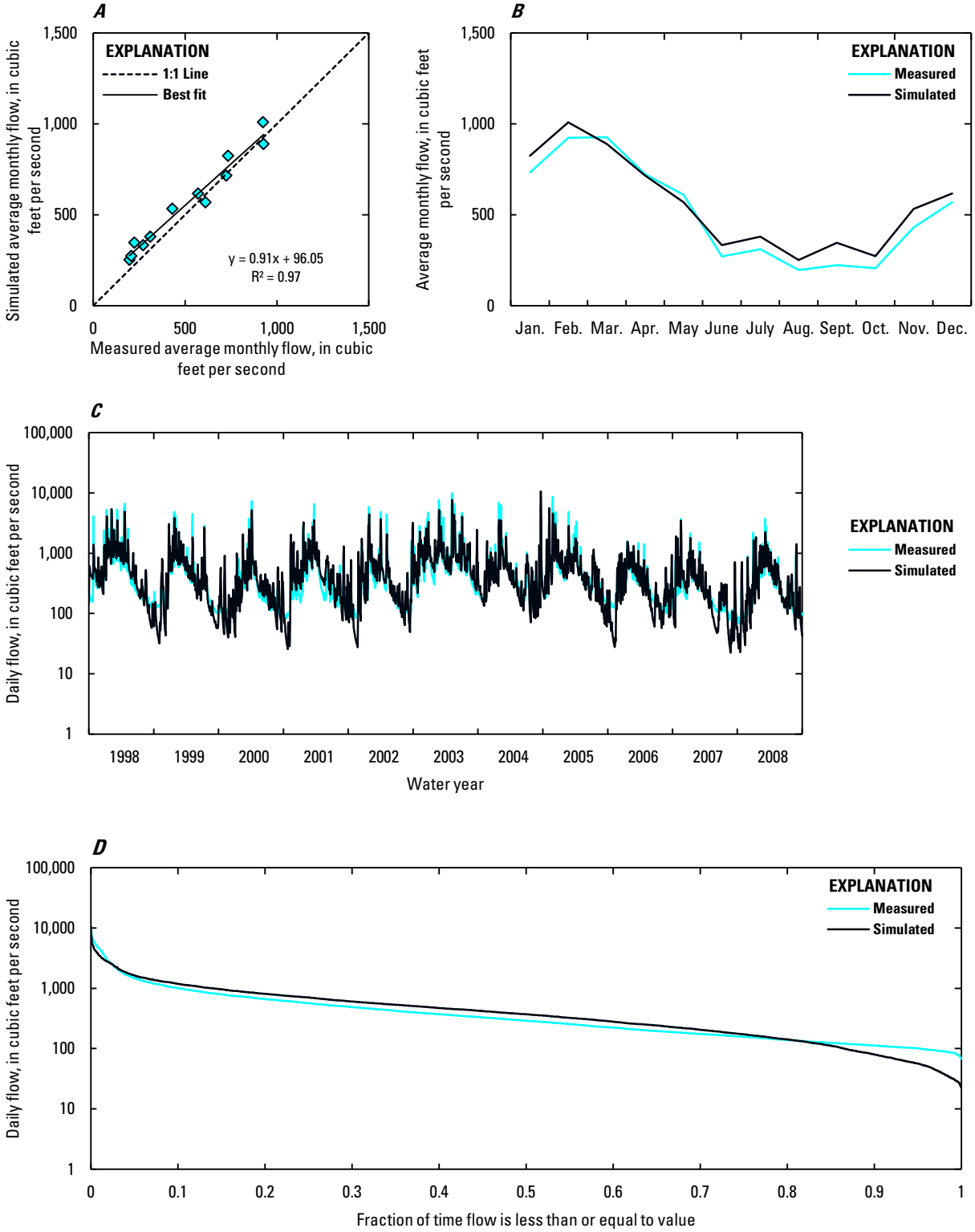

Figure A45. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02398300, Chattooga River above Gaylesville, Ala. (1998–2008).

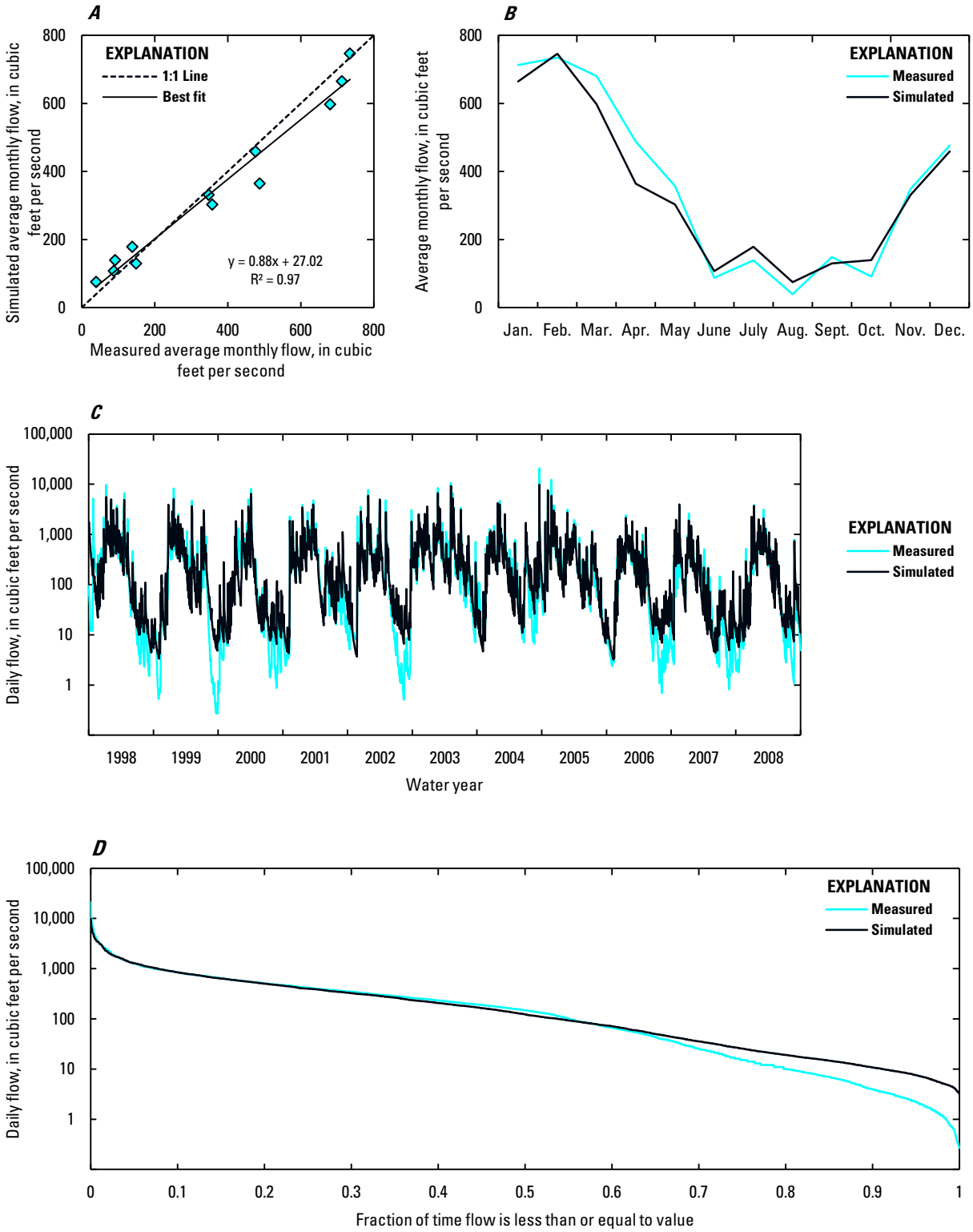

Figure A46. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02399200, Little River near Blue Pond, Ala. (1998–2008).

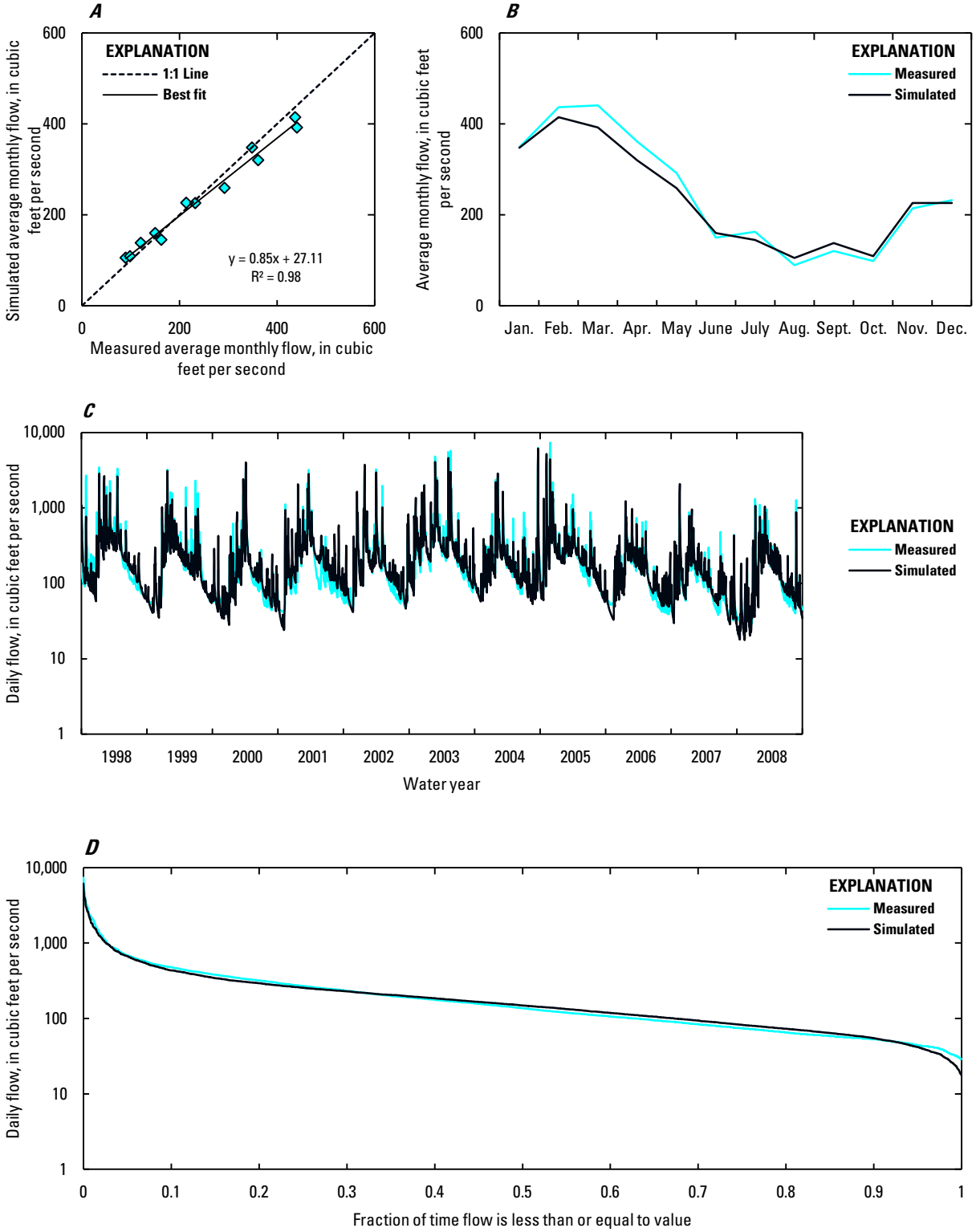

Figure A47. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02401000, Big Wills Creek near Reece City, Ala. (1998–2008).

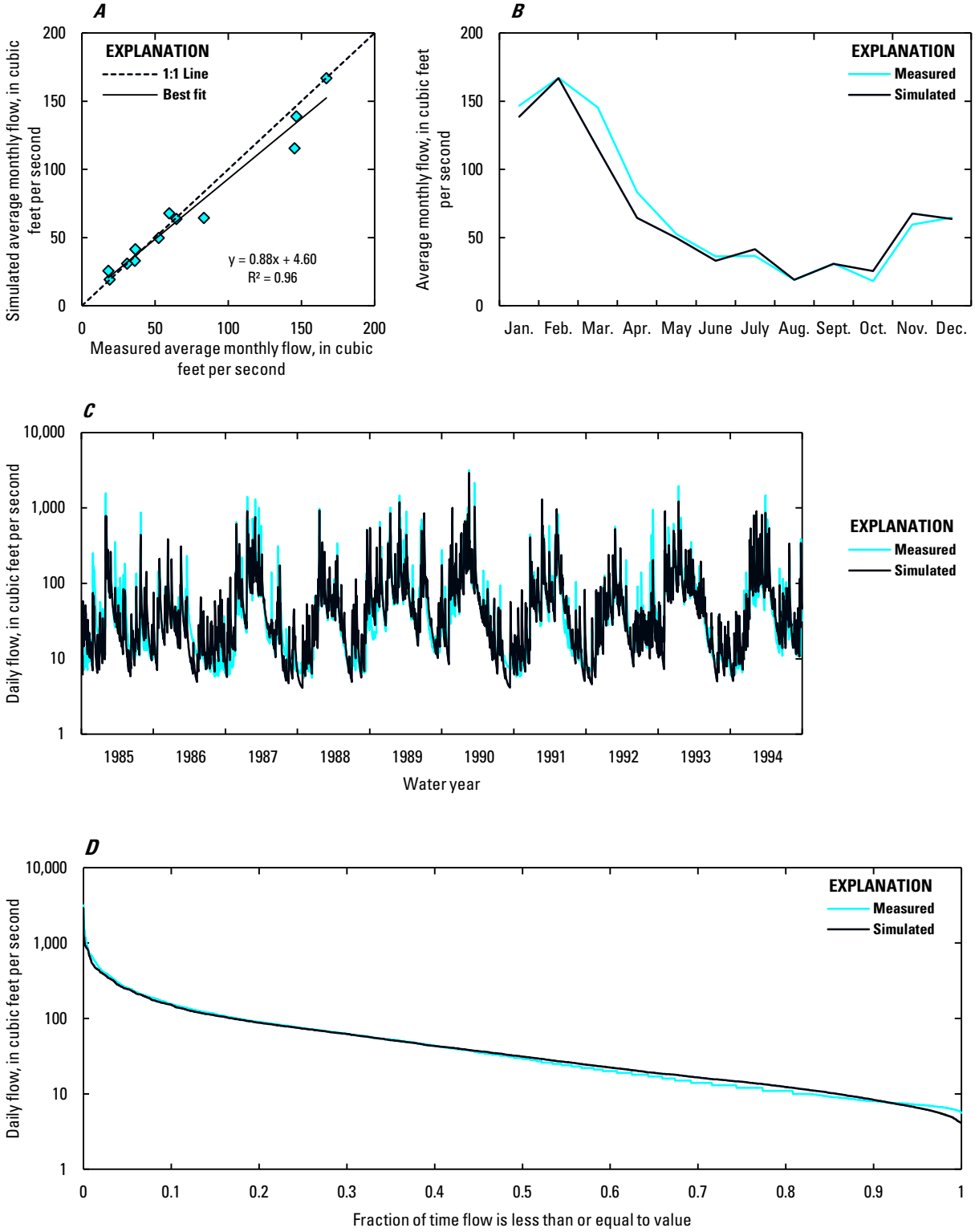

Figure A48. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1985–1994). *C*, Time series of daily flow (1985–1994). *D*, Duration curve of daily flows at USGS station 02401370, Big Canoe Creek near Springville, Ala. (1985–1994).

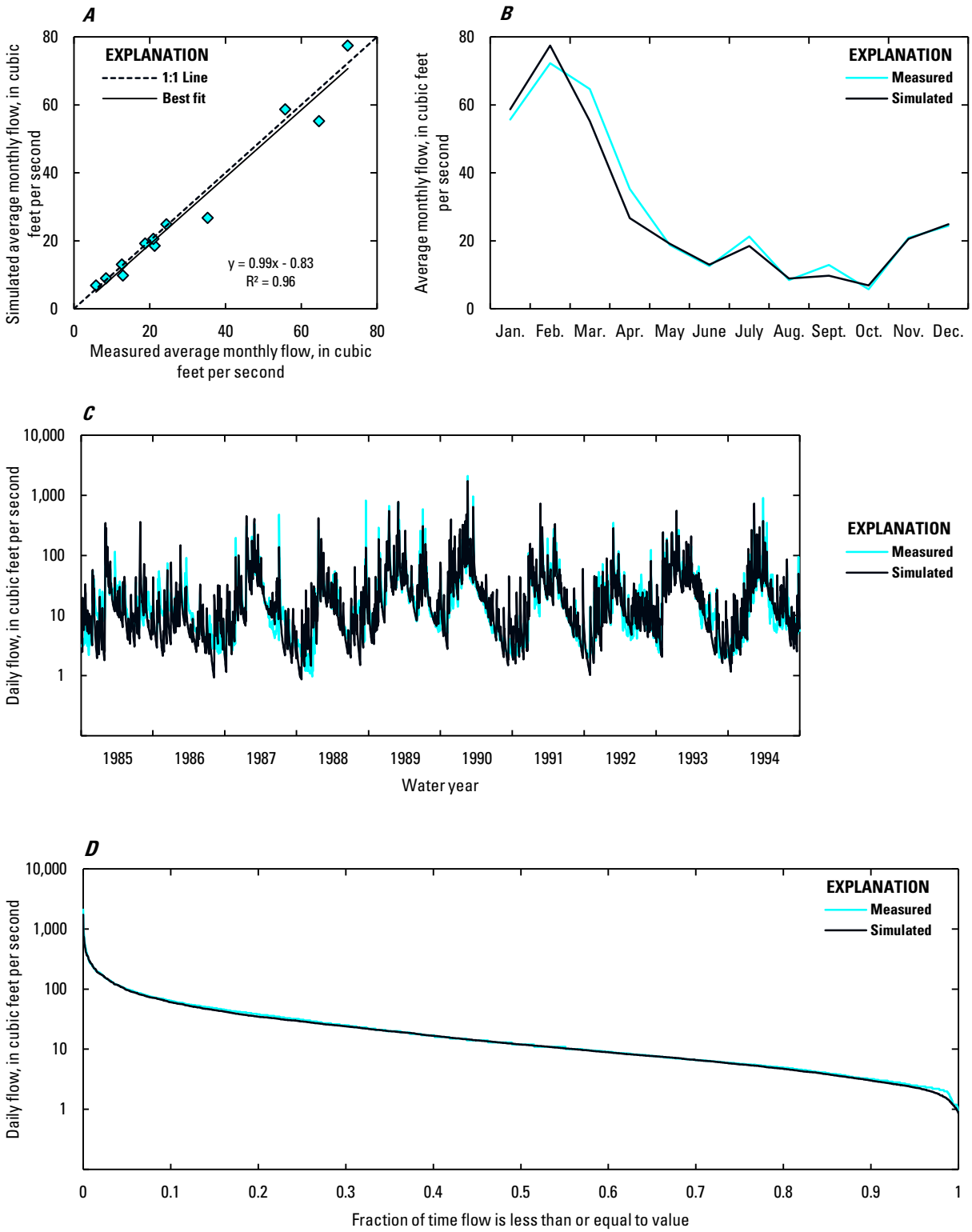

Figure A49. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1985–1994). *C*, Time series of daily flow (1985–1994). *D*, Duration curve of daily flows at USGS station 02401470, Little Canoe Creek near Steele, Ala. (1985–1994).

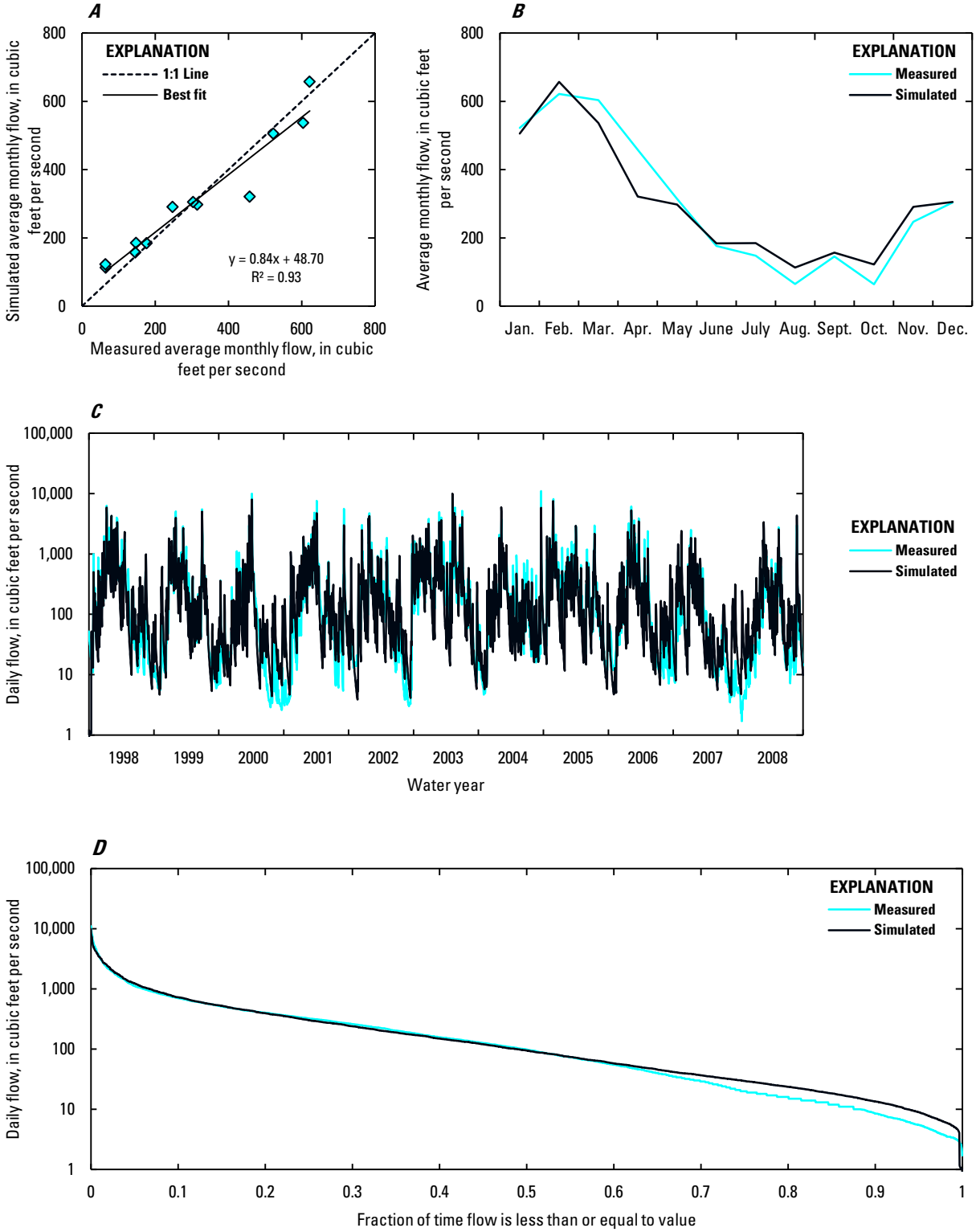

Figure A50. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02405500, Kelly Creek near Vincent, Ala. (1998–2008).

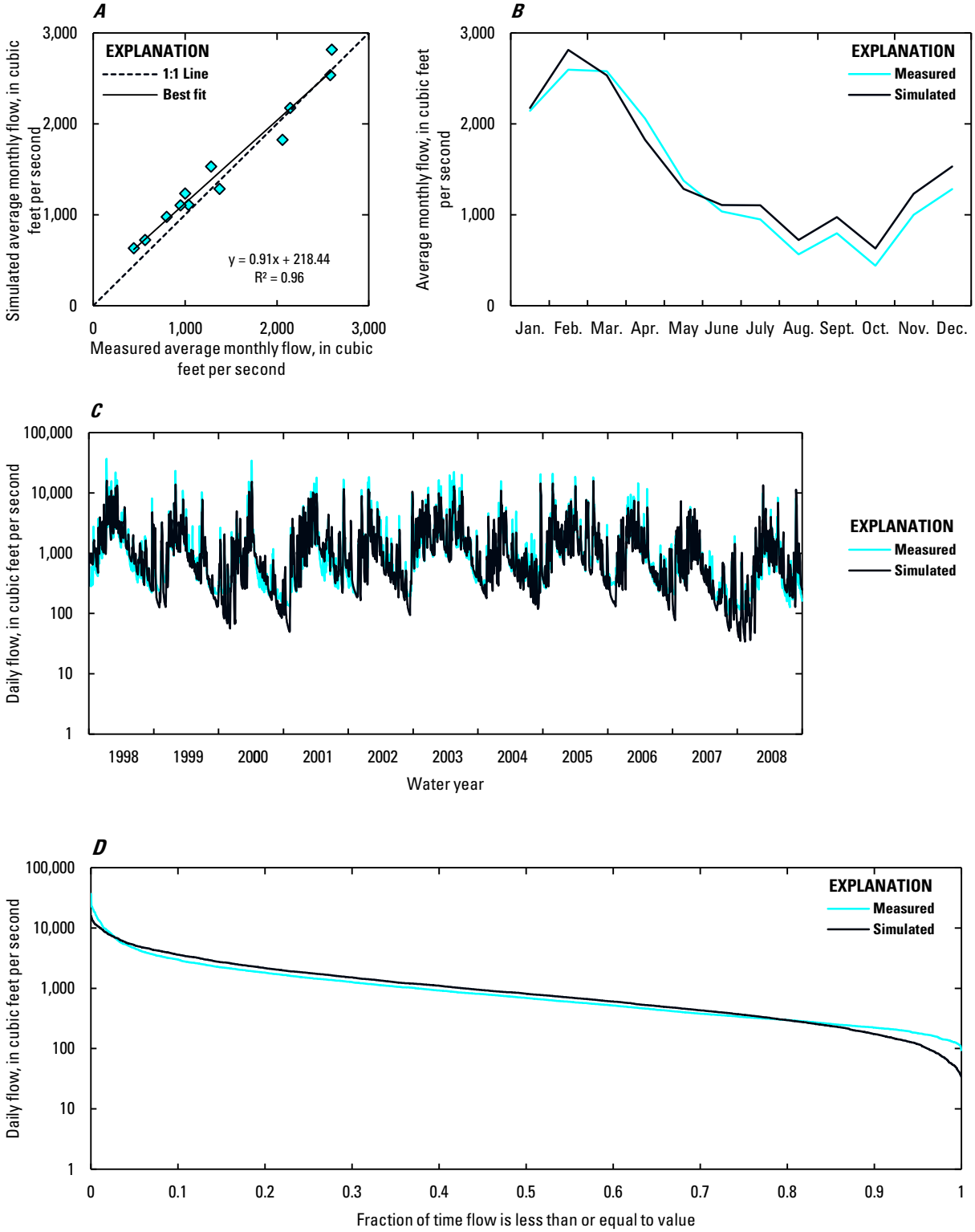

Figure A51. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02424000, Cahaba Creek near Centreville, Ala. (1998–2008).

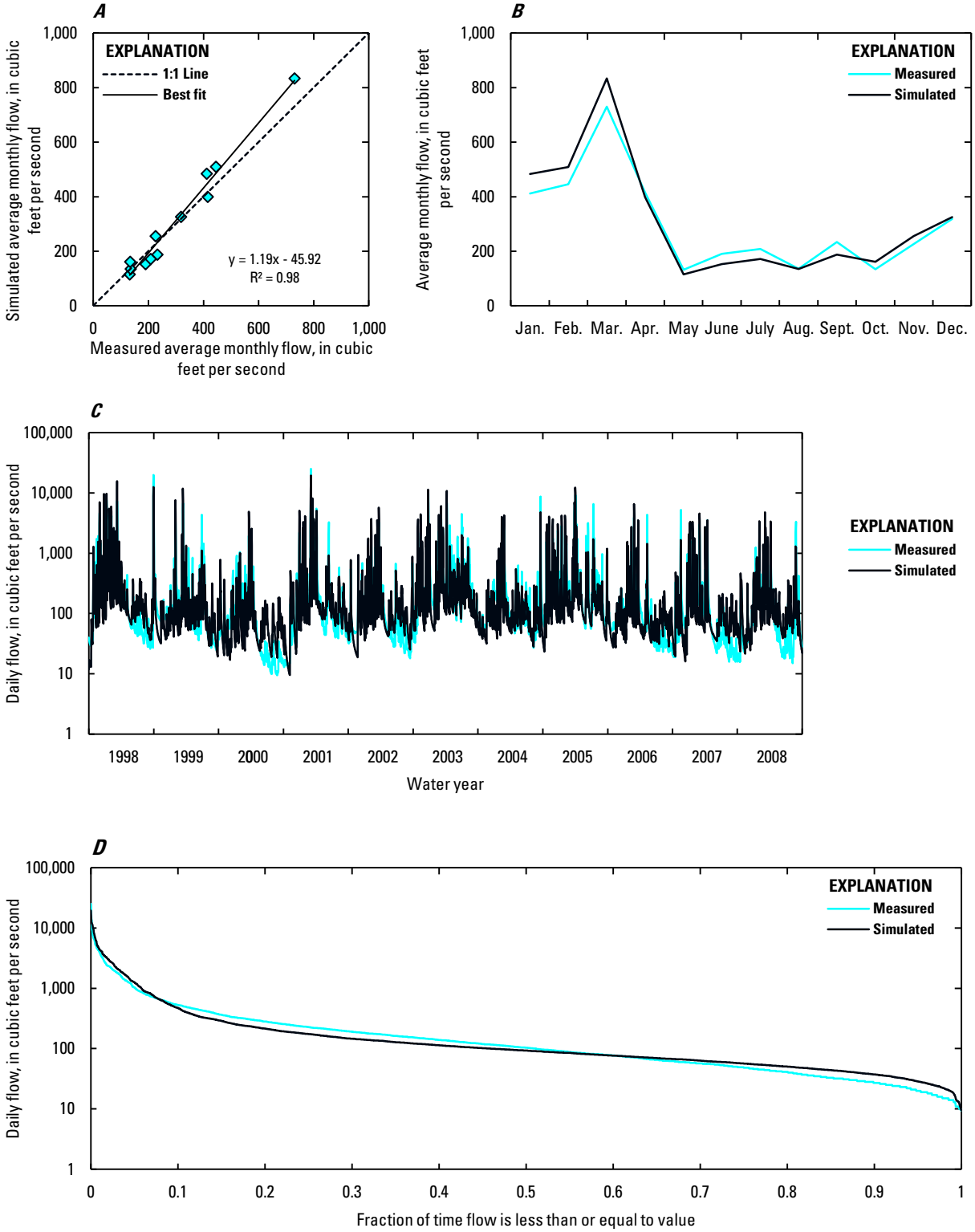

Figure A52. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02427250, Pine Barren Creek near Snow Hill, Ala. (1998–2008).

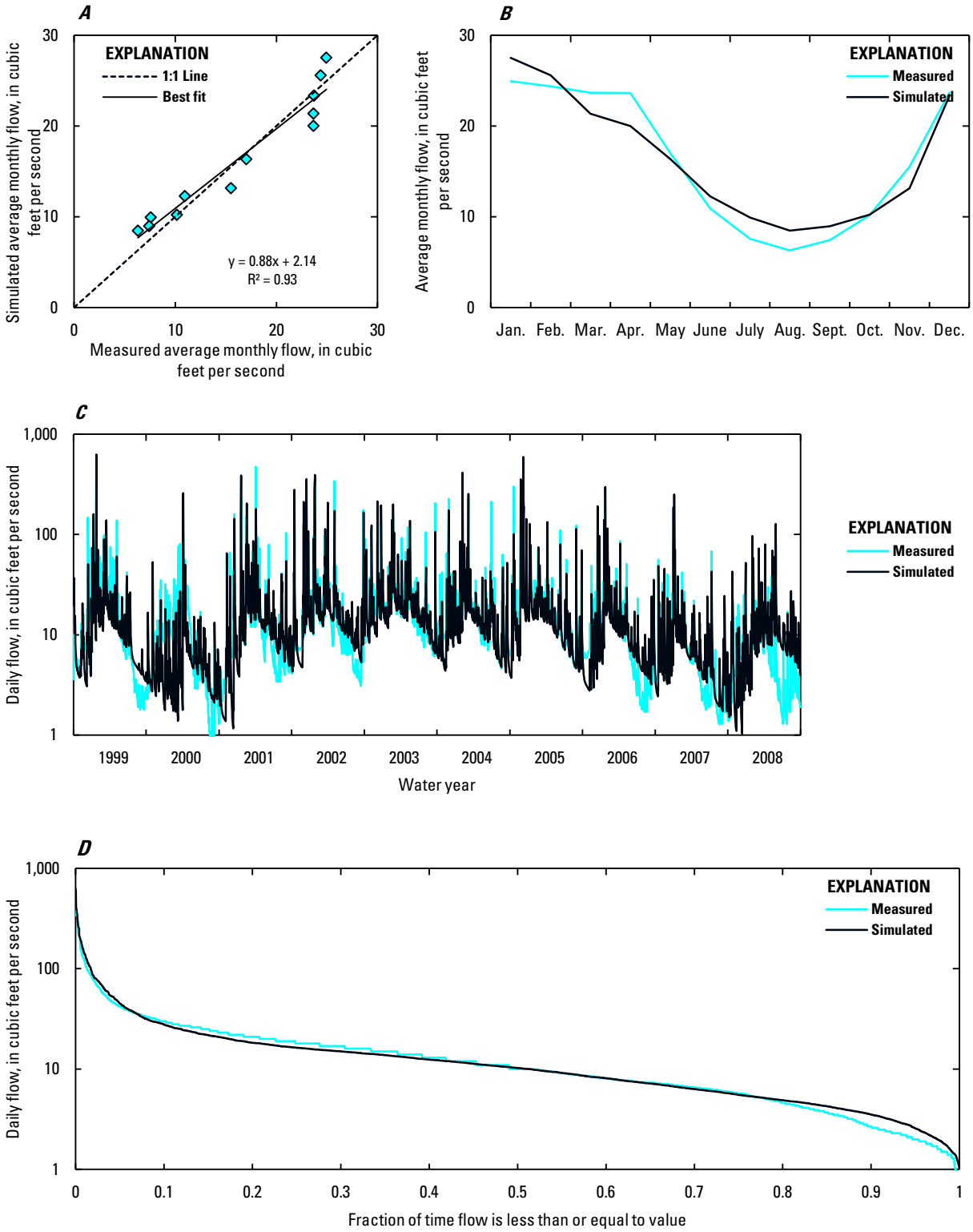

Figure A53. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1999–2008). *C*, Time series of daily flow (1999–2008). *D*, Duration curve of daily flows at USGS station 02430615, Mud Creek near Fairview, Miss. (1999–2008).

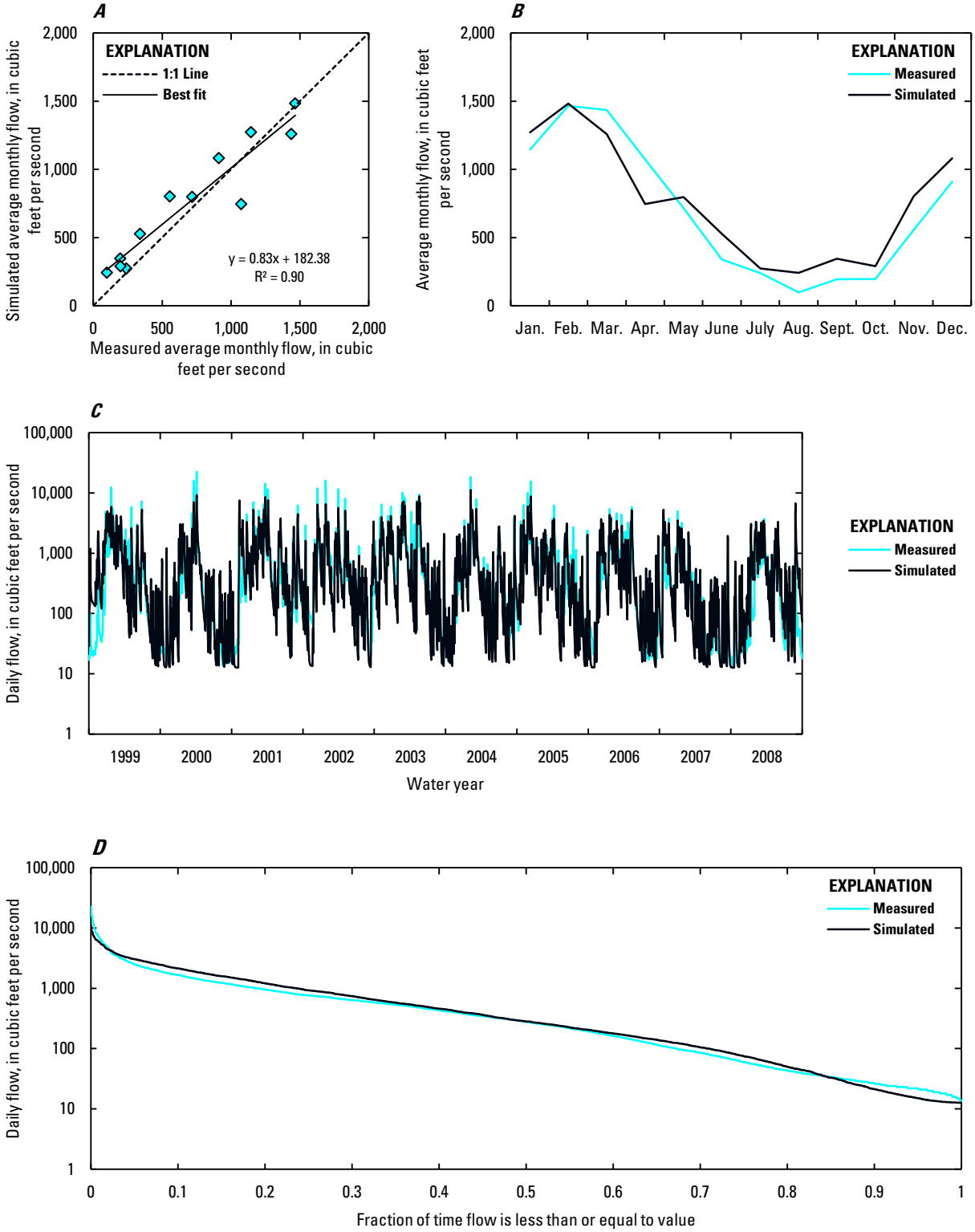

Figure A54. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1999–2008). *C*, Time series of daily flow (1999–2008). *D*, Duration curve of daily flows at USGS station 02450180, Mulberry Fork near Arkadelphia, Ala. (1999–2008).

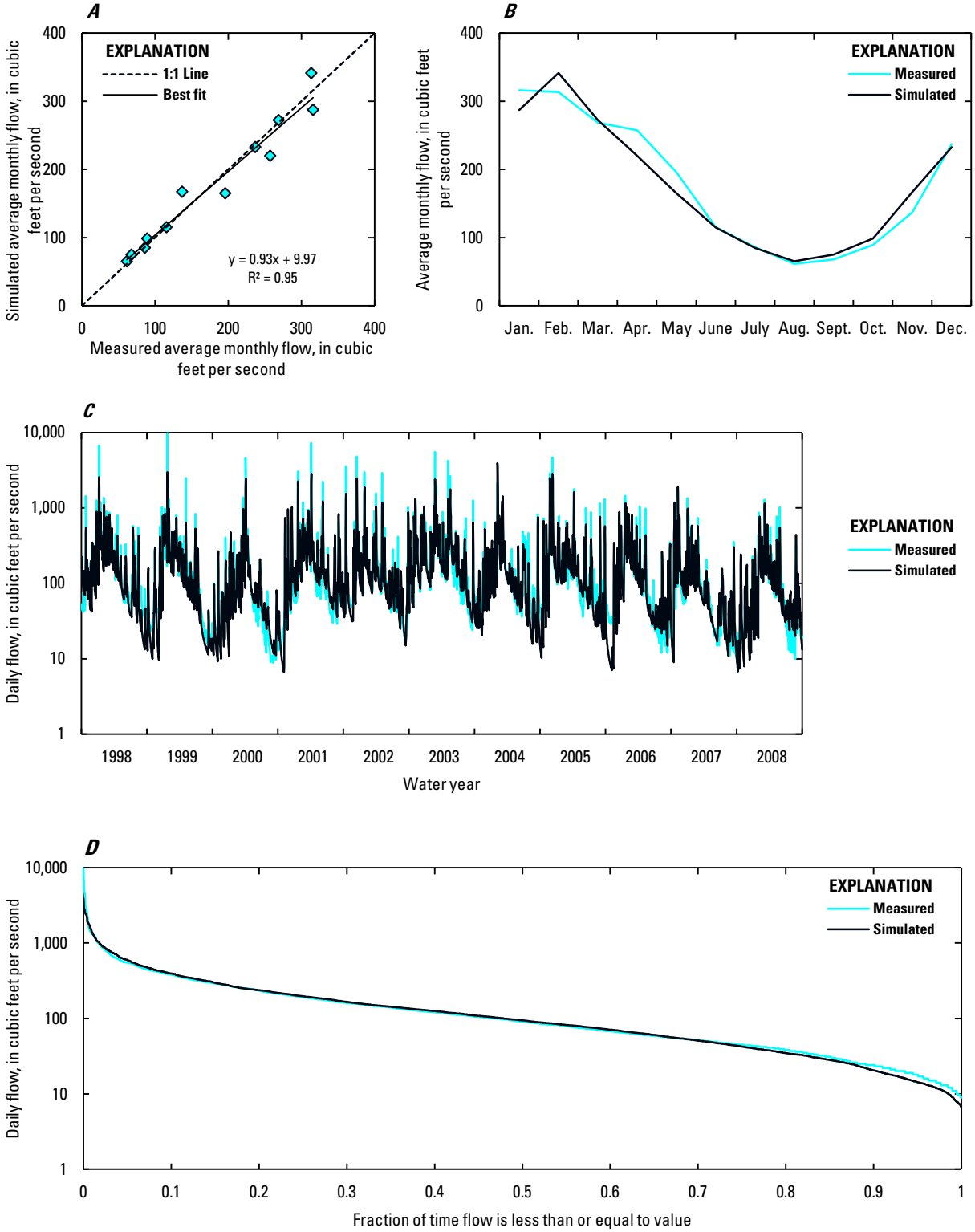

Figure A55. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02450825, Clear Creek at New Hope Church near Poplar Springs, Ala. (1998–2008).

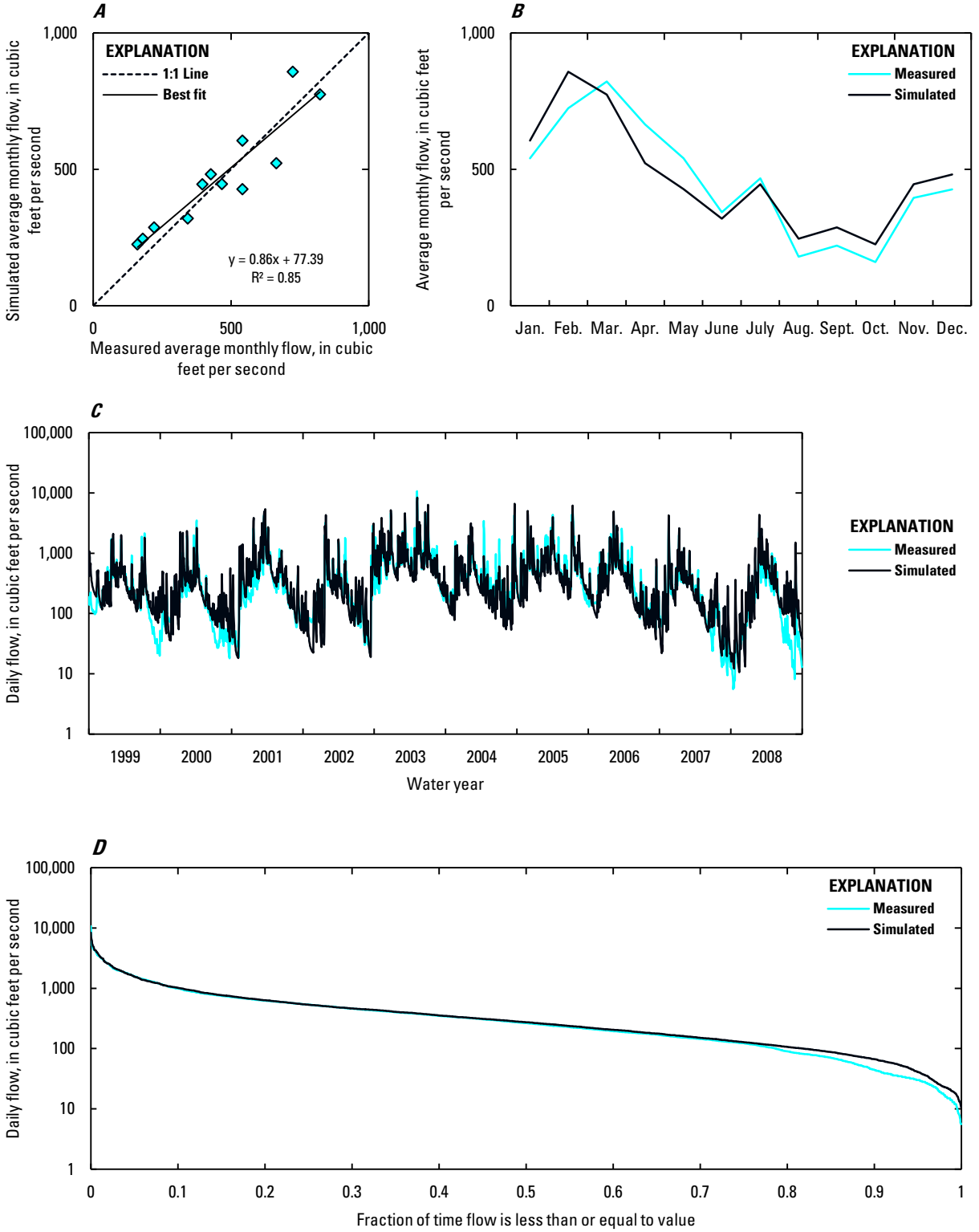

Figure A56. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1999–2008). *C*, Time series of daily flow (1999–2008). *D*, Duration curve of daily flows at USGS station 02413300, Little Tallapoosa River near Newell, Ala. (1999–2008).

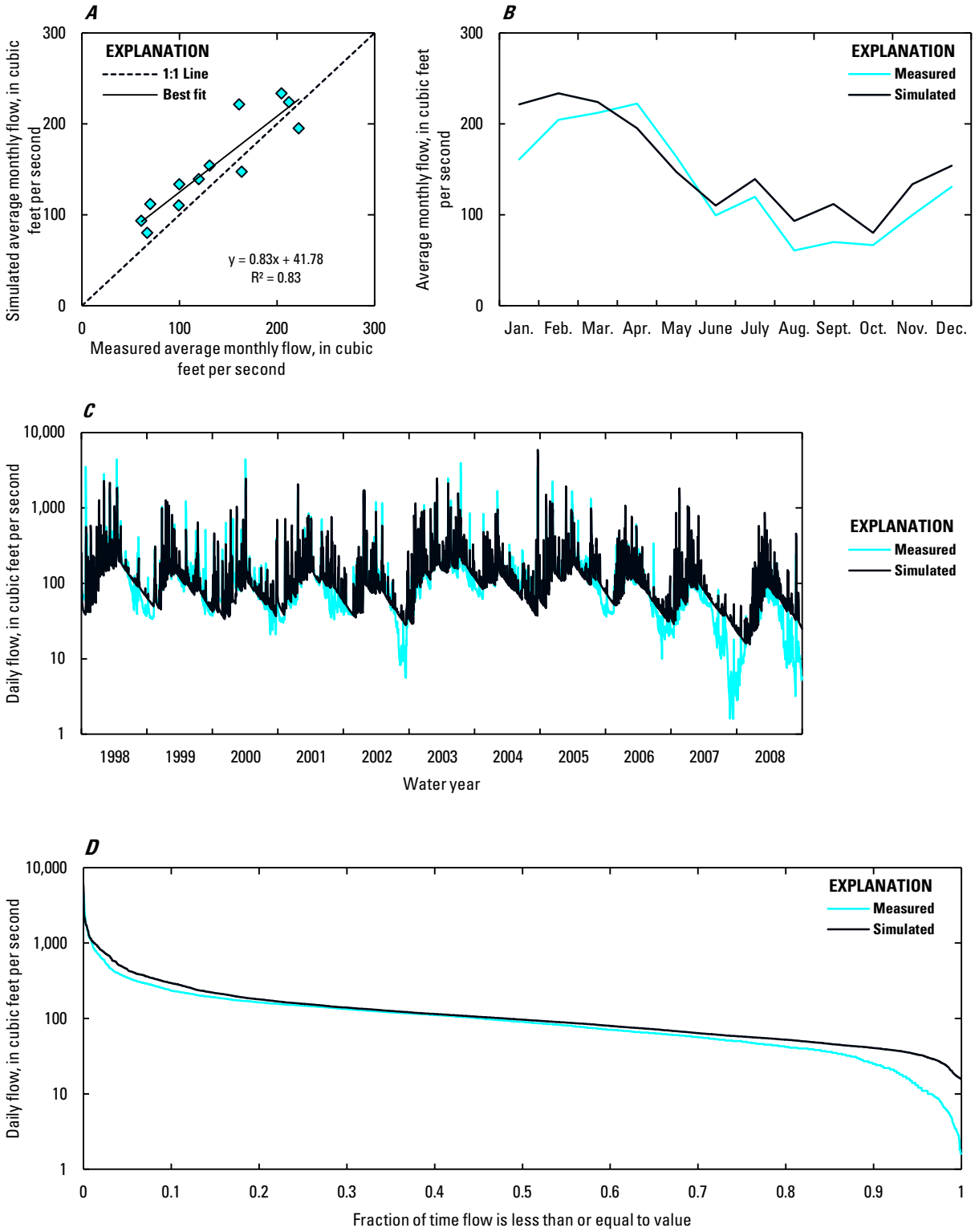

Figure A57. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02382200, Talking Rock Creek near Hinton, Ga. (1998–2008).

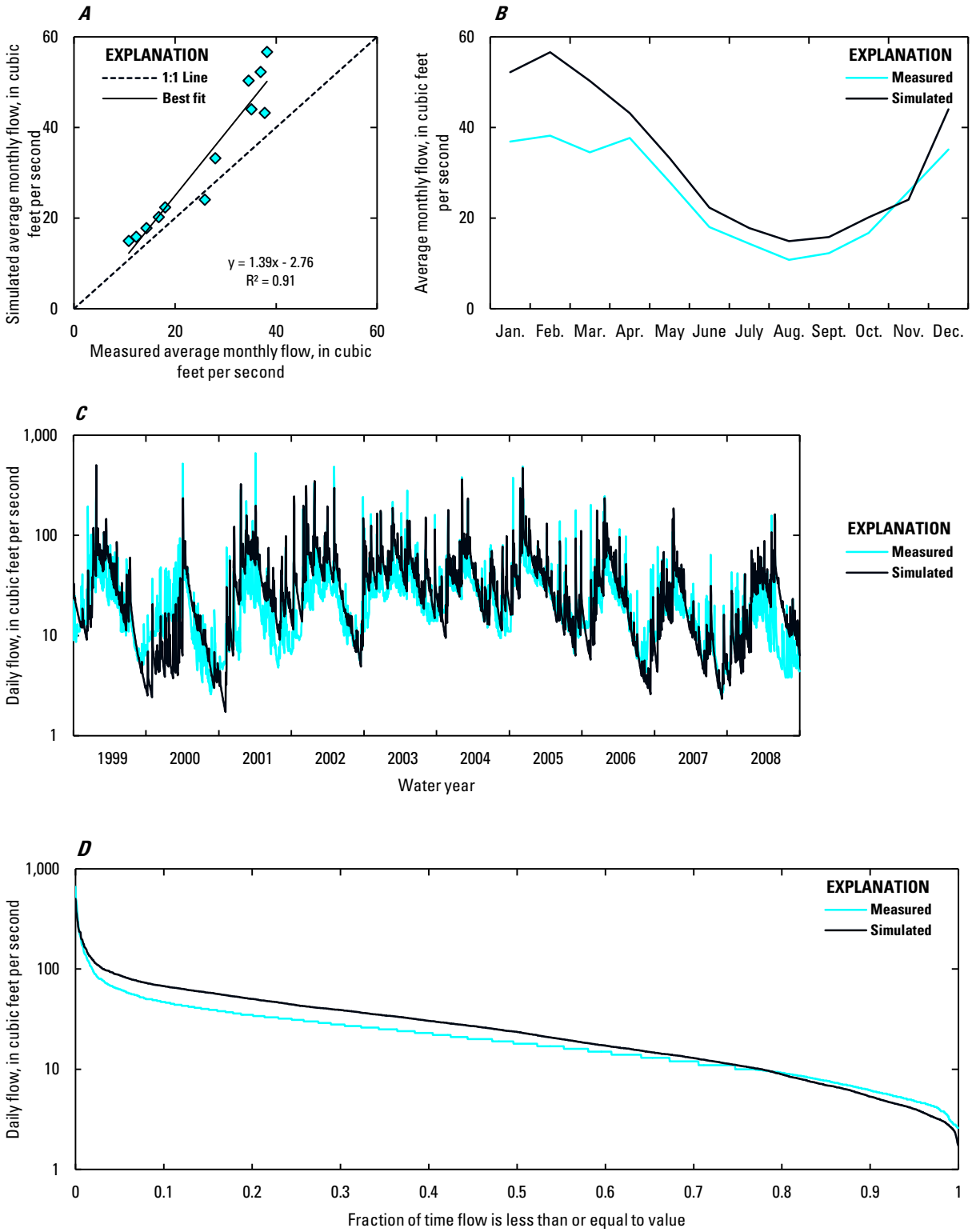

Figure A58. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1999–2008). *C*, Time series of daily flow (1999–2008). *D*, Duration curve of daily flows at USGS station 02430880, Cummings Creek near Fulton, Miss. (1999–2008).

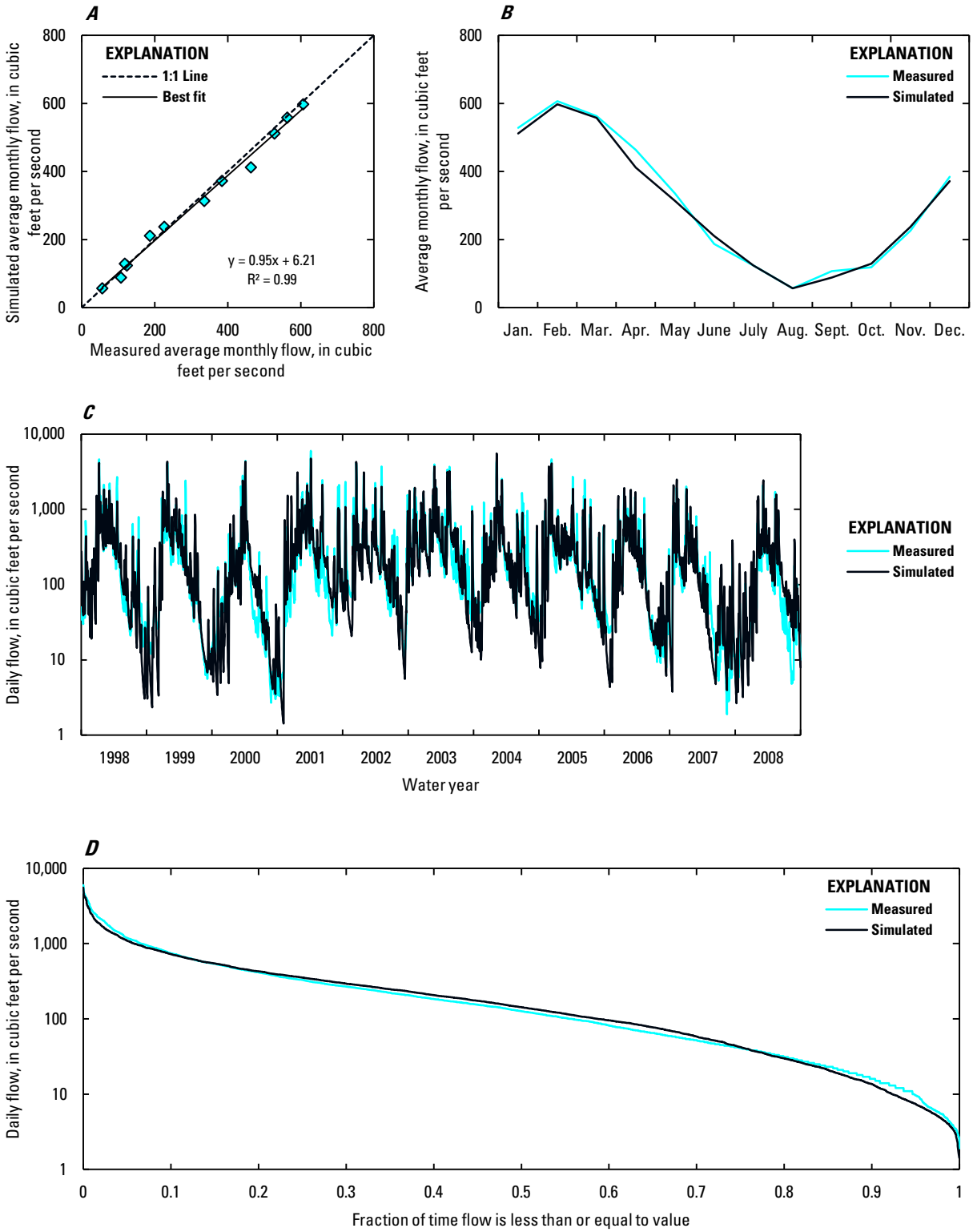

Figure A59. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02453000, Blackwater Creek near Manchester, Ala. (1998–2008).

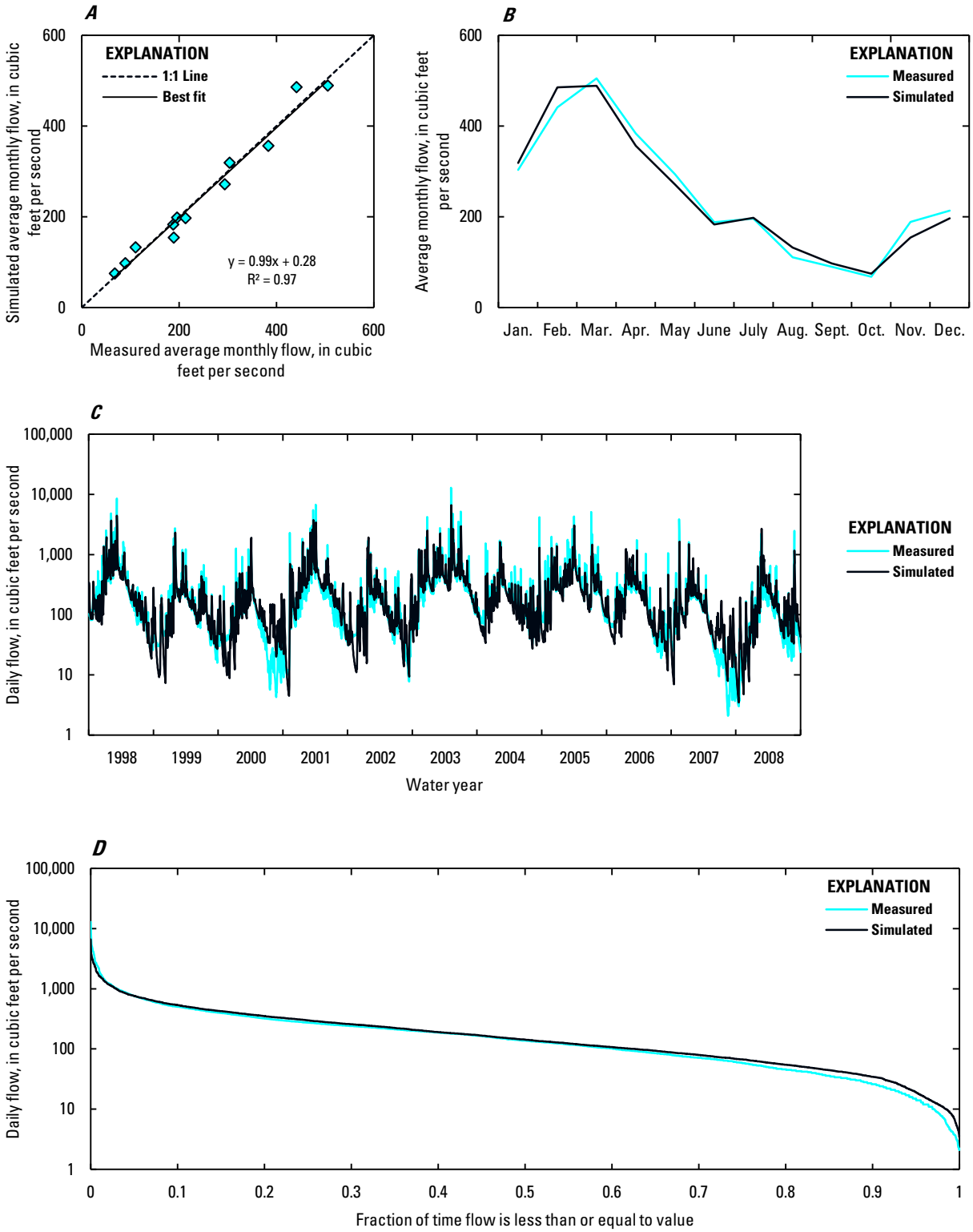

Figure A60. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02415000, Hillabee Creek near Hackneyville, Ala. (1998–2008).

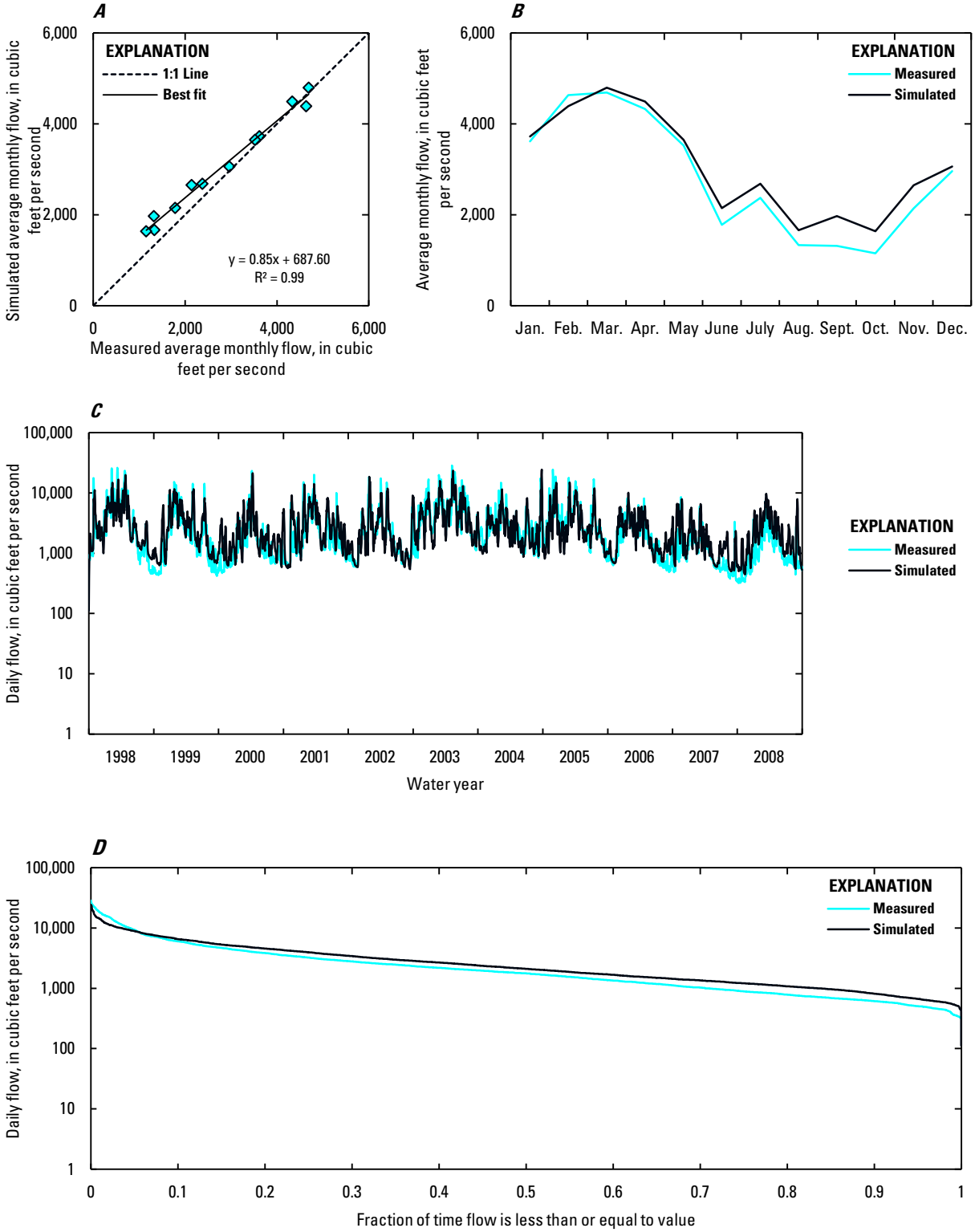

Figure A61. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02388500, Oostanaula River near Rome, Ga. (1998–2008).

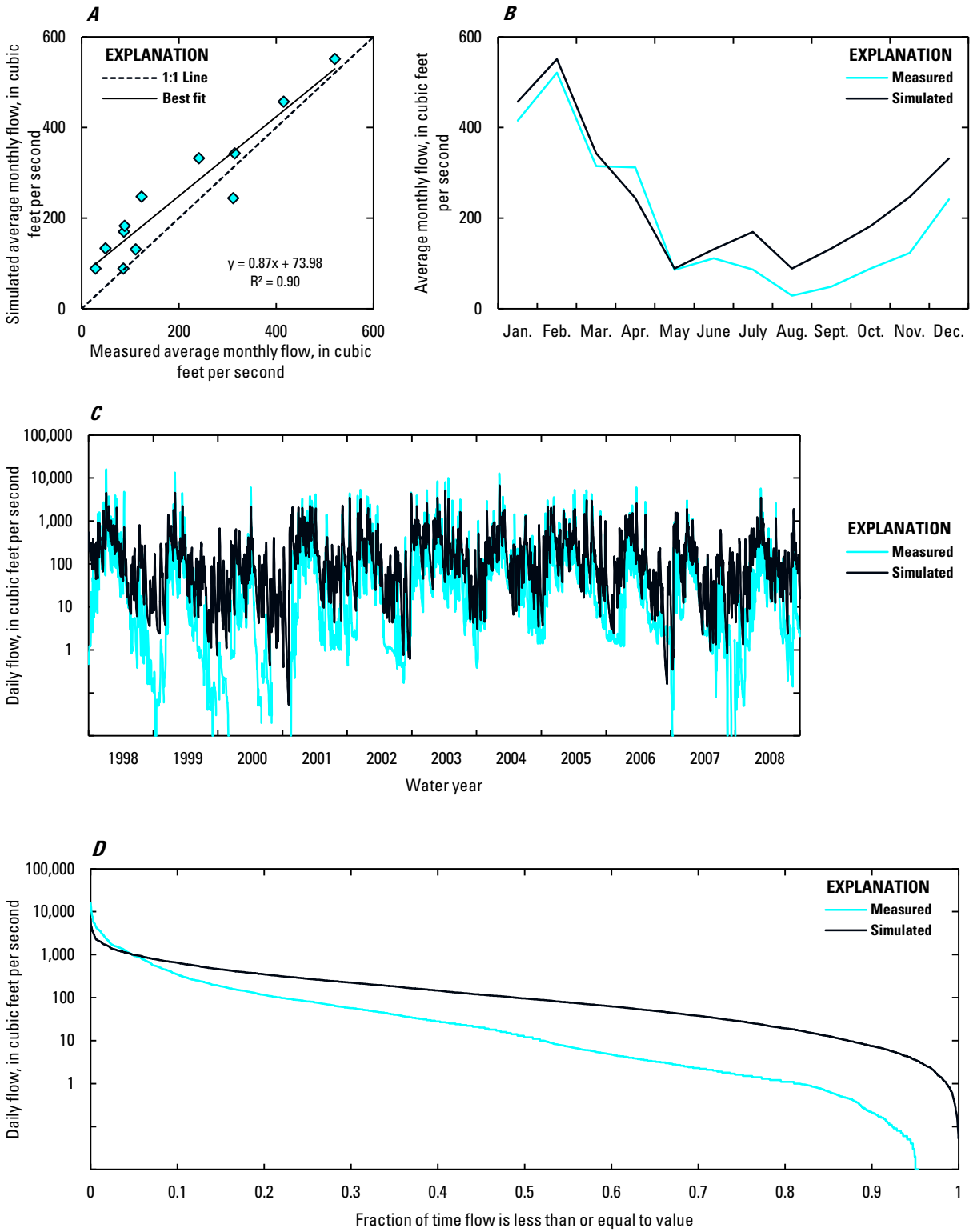

Figure A62. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02448900, Bodka Creek near Geiger, Ala. (1998–2008).

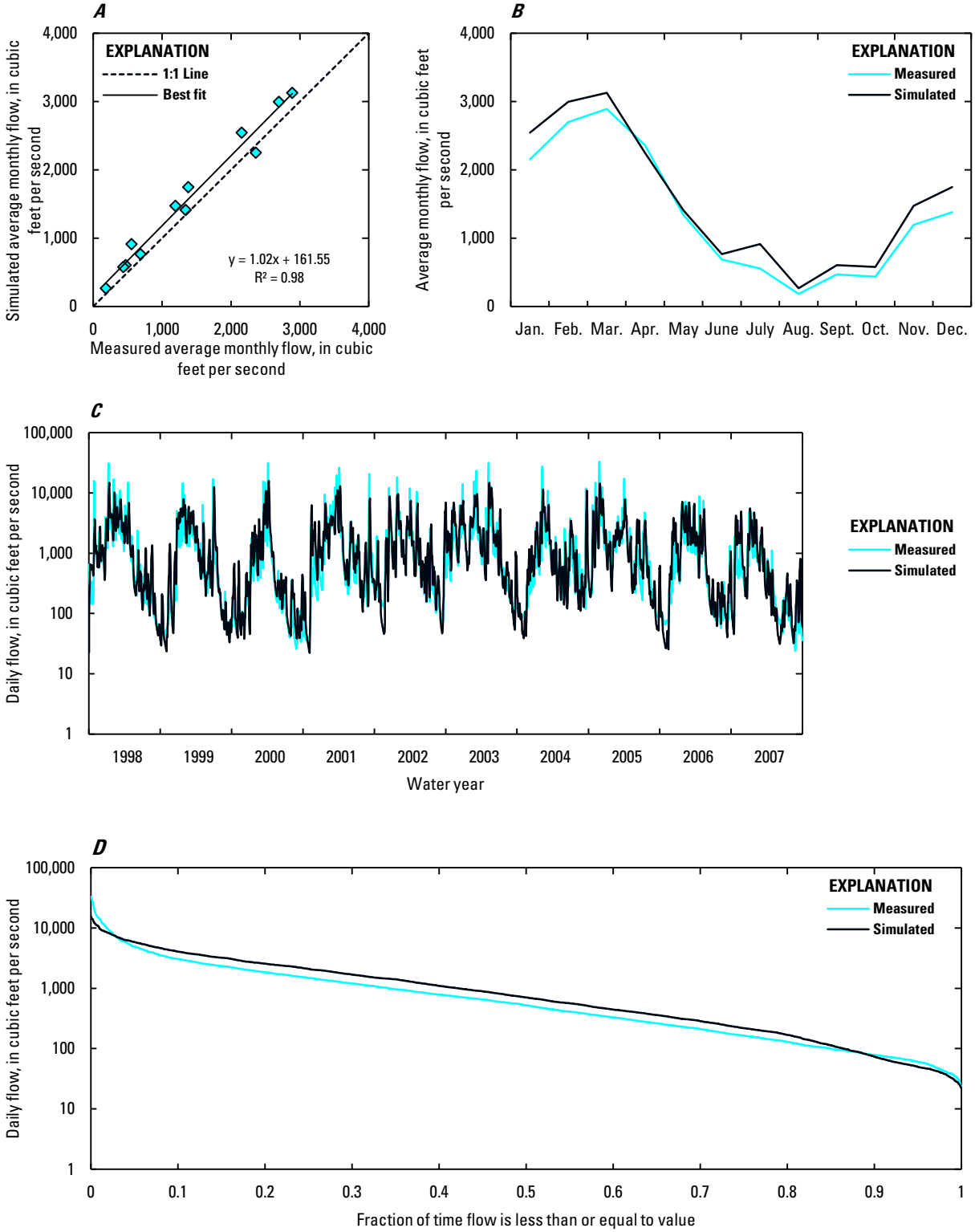

Figure A63. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2007). *C*, Time series of daily flow (1998–2007). *D*, Duration curve of daily flows at USGS station 02456500, Locust Fork at Sayre, Ala. (1998–2007).

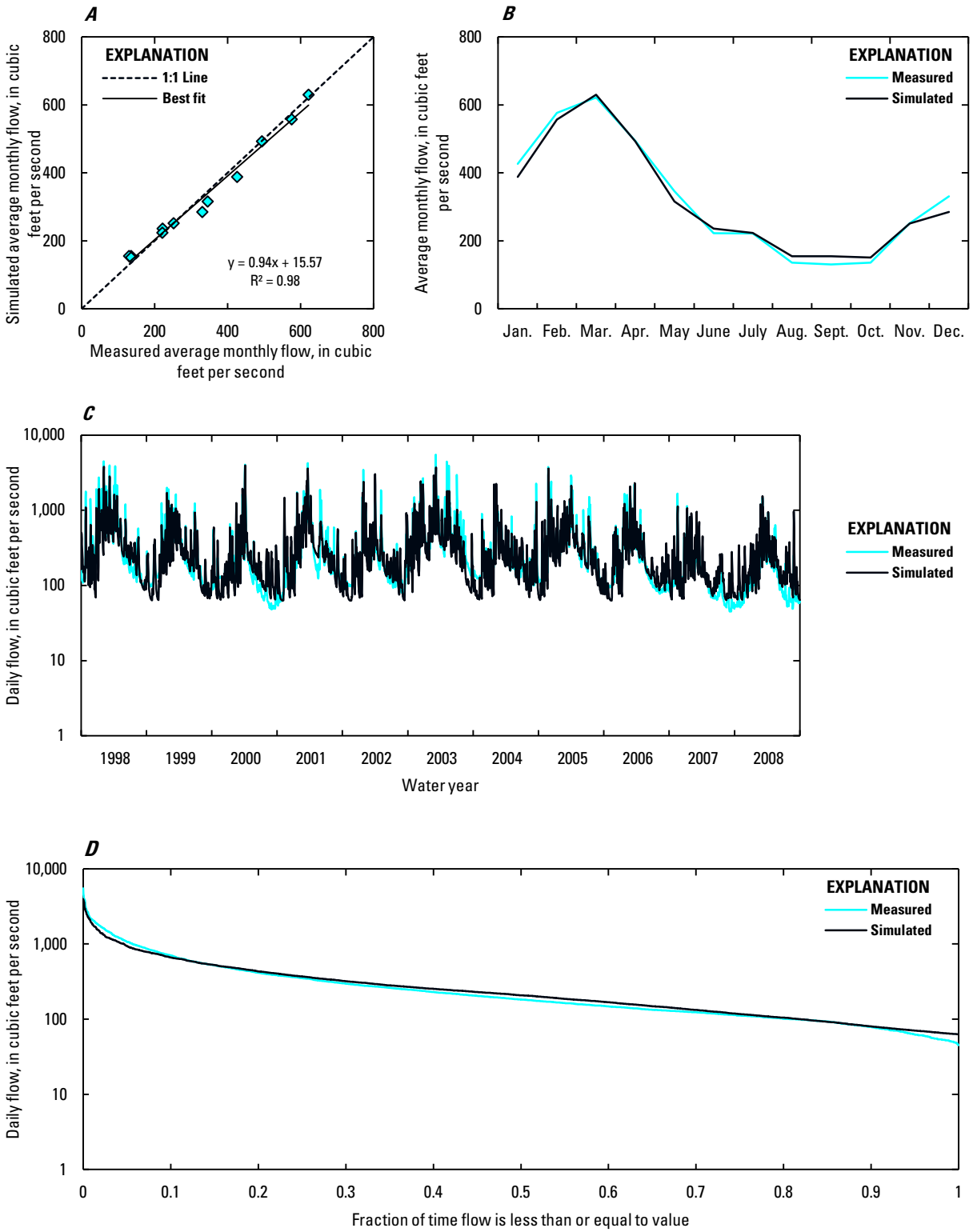

Figure A64. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02400100, Terrapin Creek at Ellisville, Ala. (1998–2008).

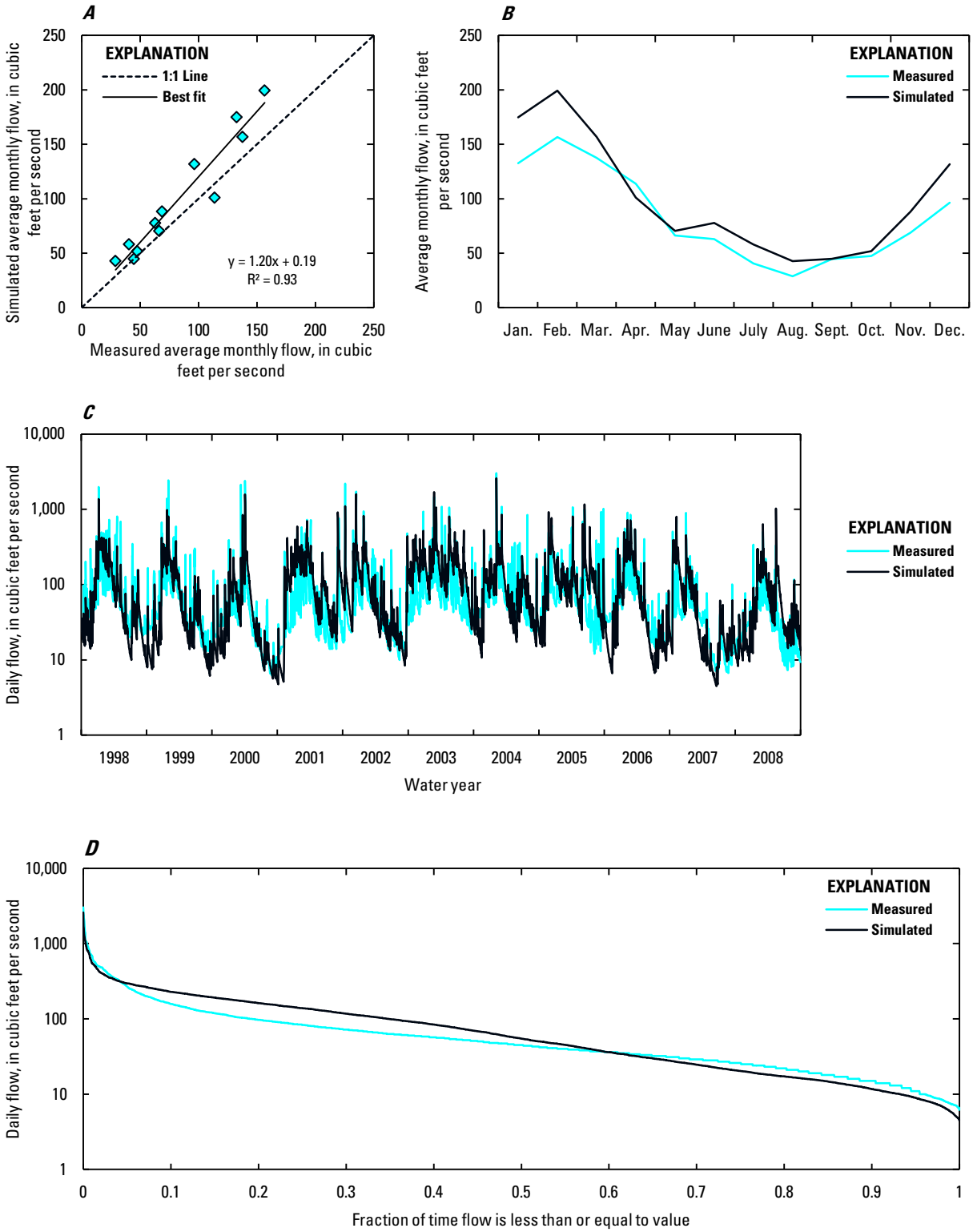

Figure A65. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02464360, Binion Creek below Gin Creek near Samantha, Ala. (1998–2008).

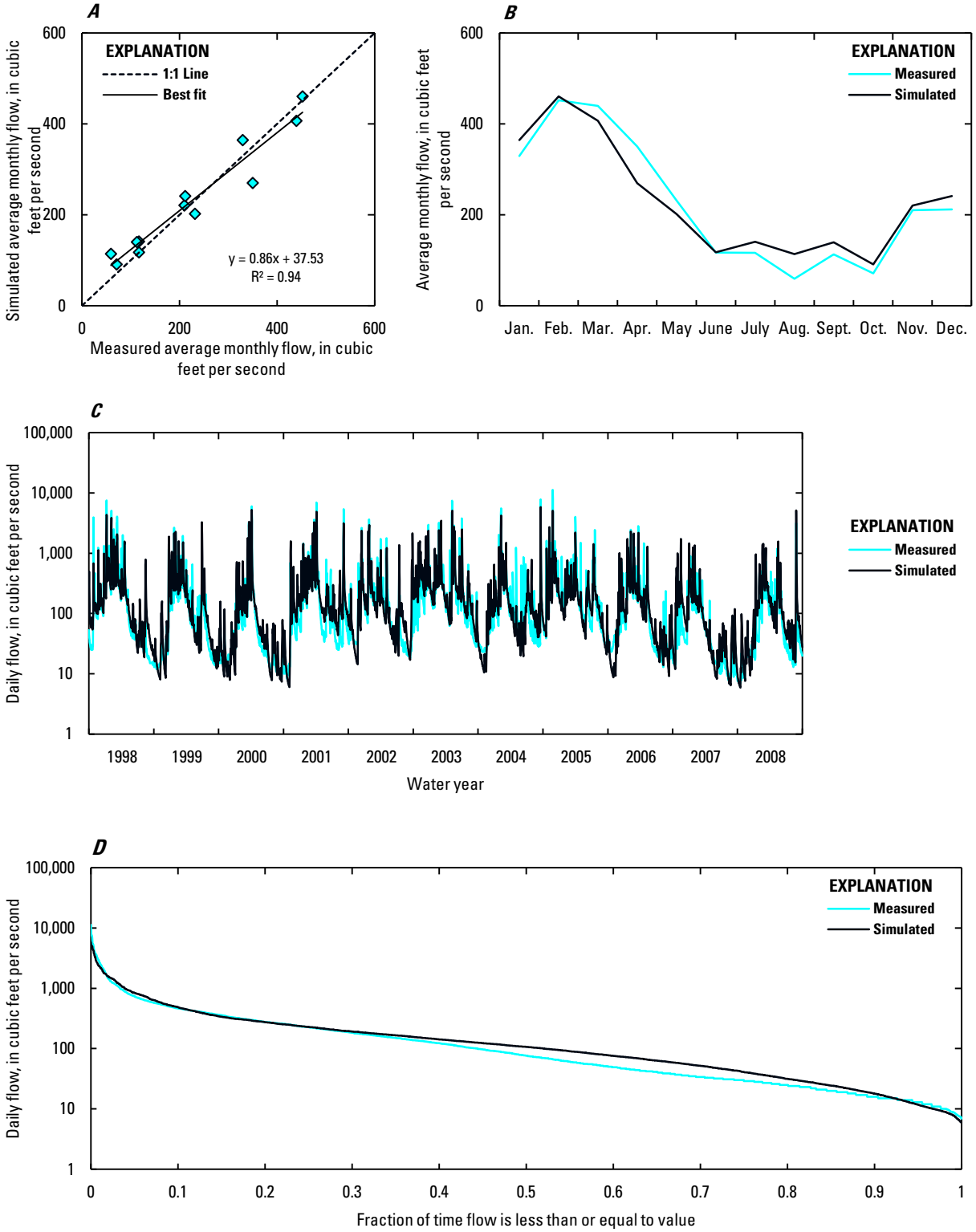

Figure A66. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02401390, Big Canoe Creek at Ashville, Ala. (1998–2008).

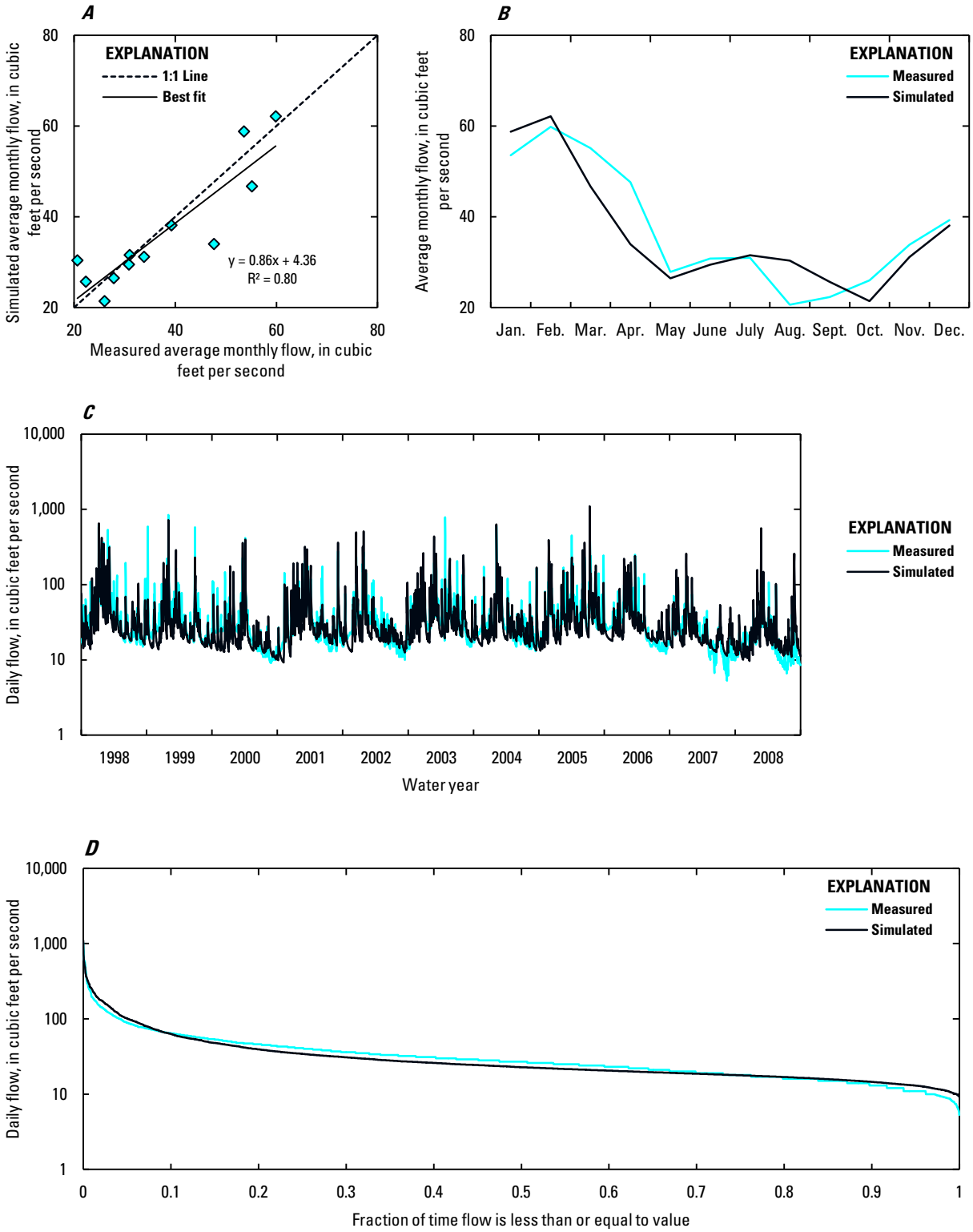

Figure A67. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02465493, Elliotts Creek at Moundville, Ala. (1998–2008).

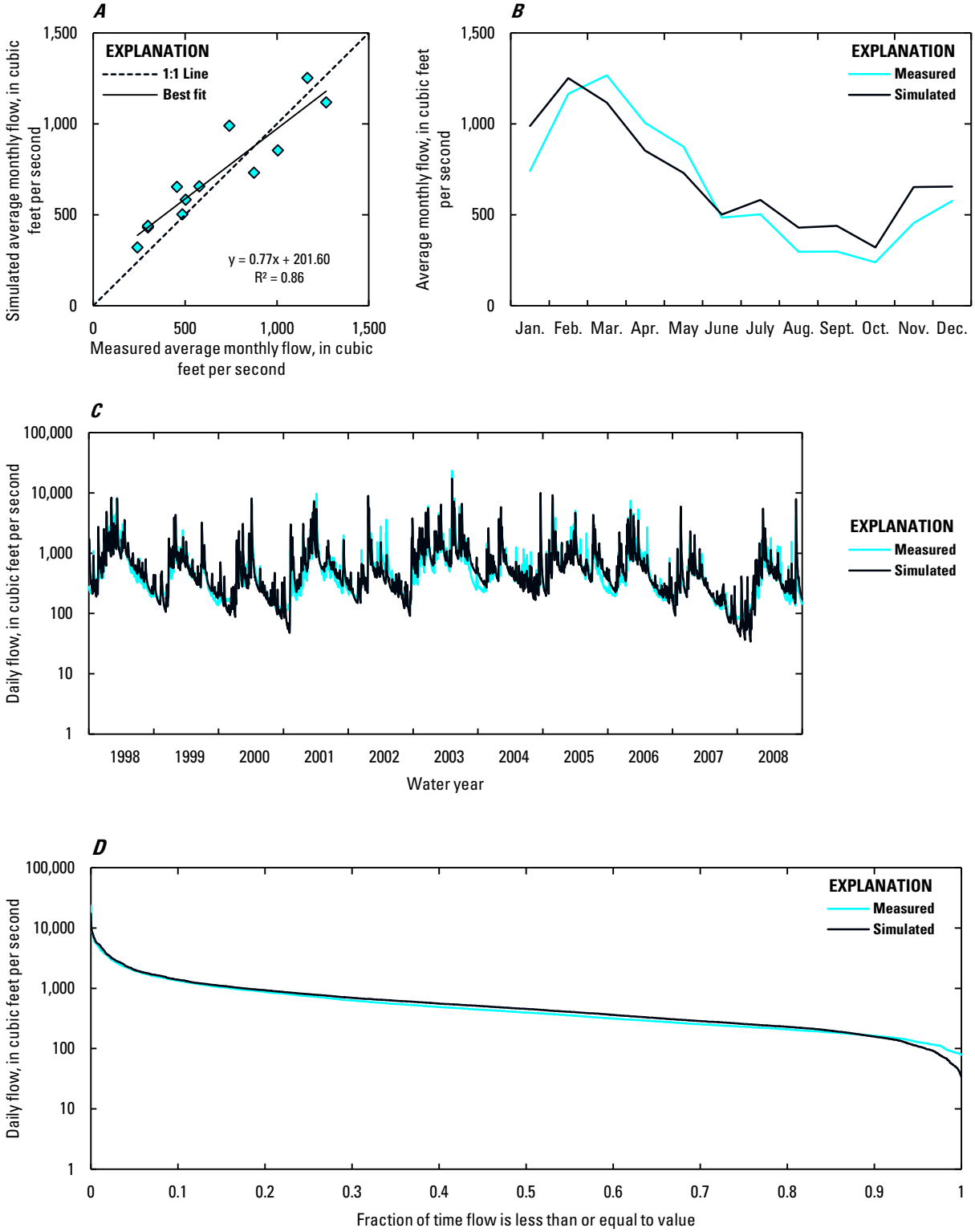

Figure A68. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02404400, Choccolocco Creek at Jackson Shoal near Lincoln, Ala. (1998–2008).

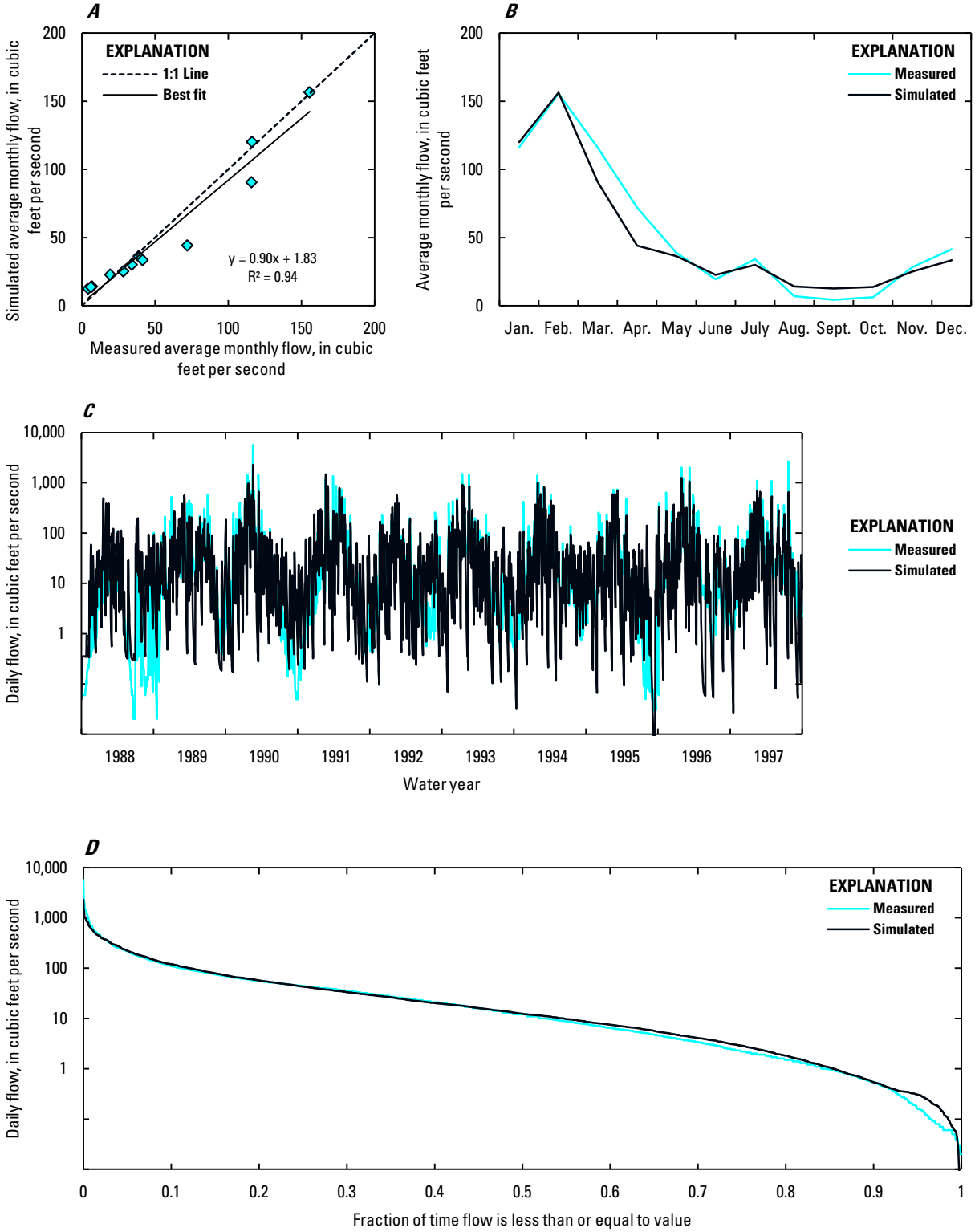

Figure A69. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1988–1997). *C*, Time series of daily flow (1988–1997). *D*, Duration curve of daily flows at USGS station 02449245, Brush Creek near Eutaw, Ala. (1988–1997).

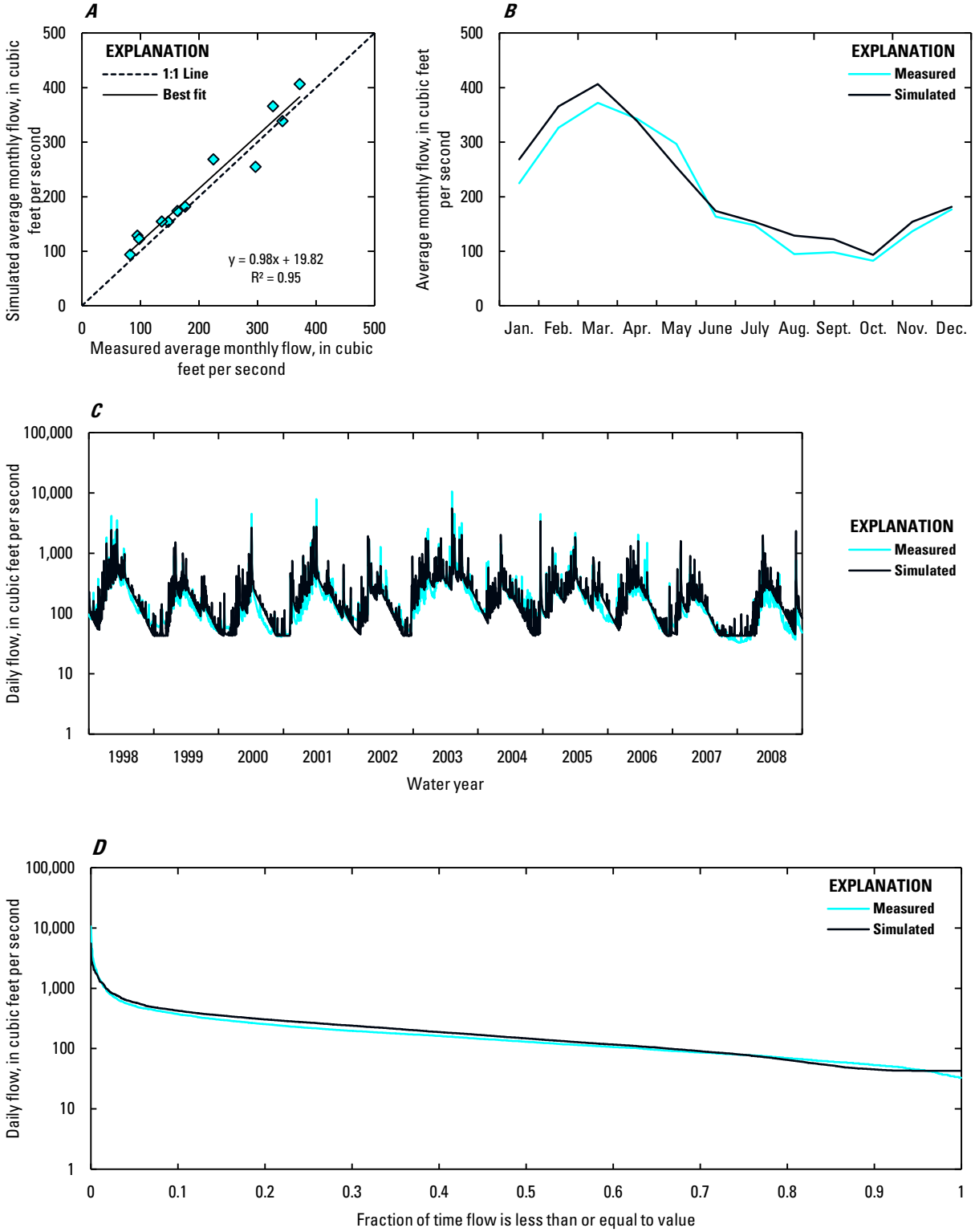

Figure A70. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02406500, Talladega Creek at Alpine, Ala. (1998–2008).

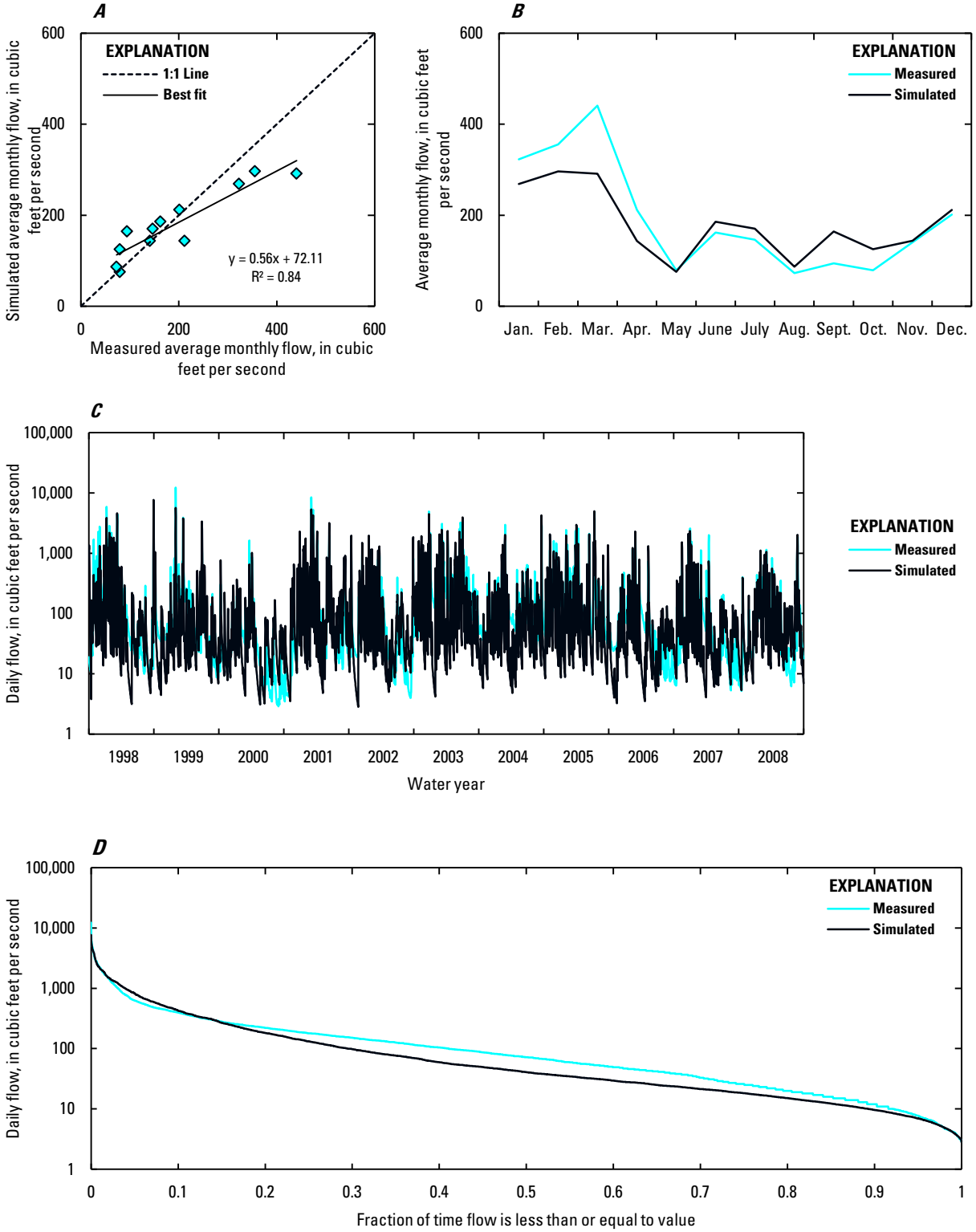

Figure A71. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02469800, Satilpa Creek near Coffeeville, Ala. (1998–2008).

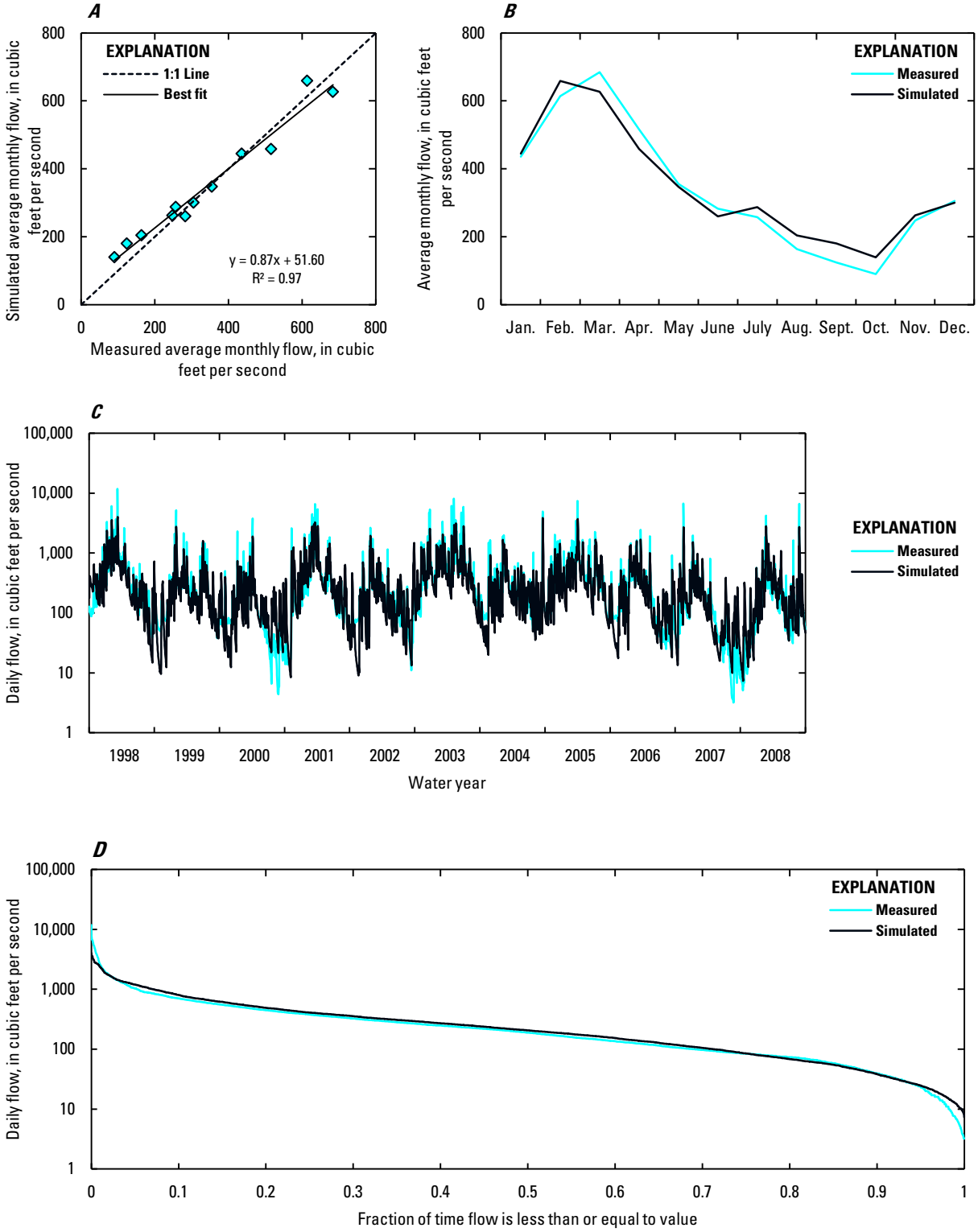

Figure A72. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02408540, Hatchet Creek below Rockford, Ala. (1998–2008).

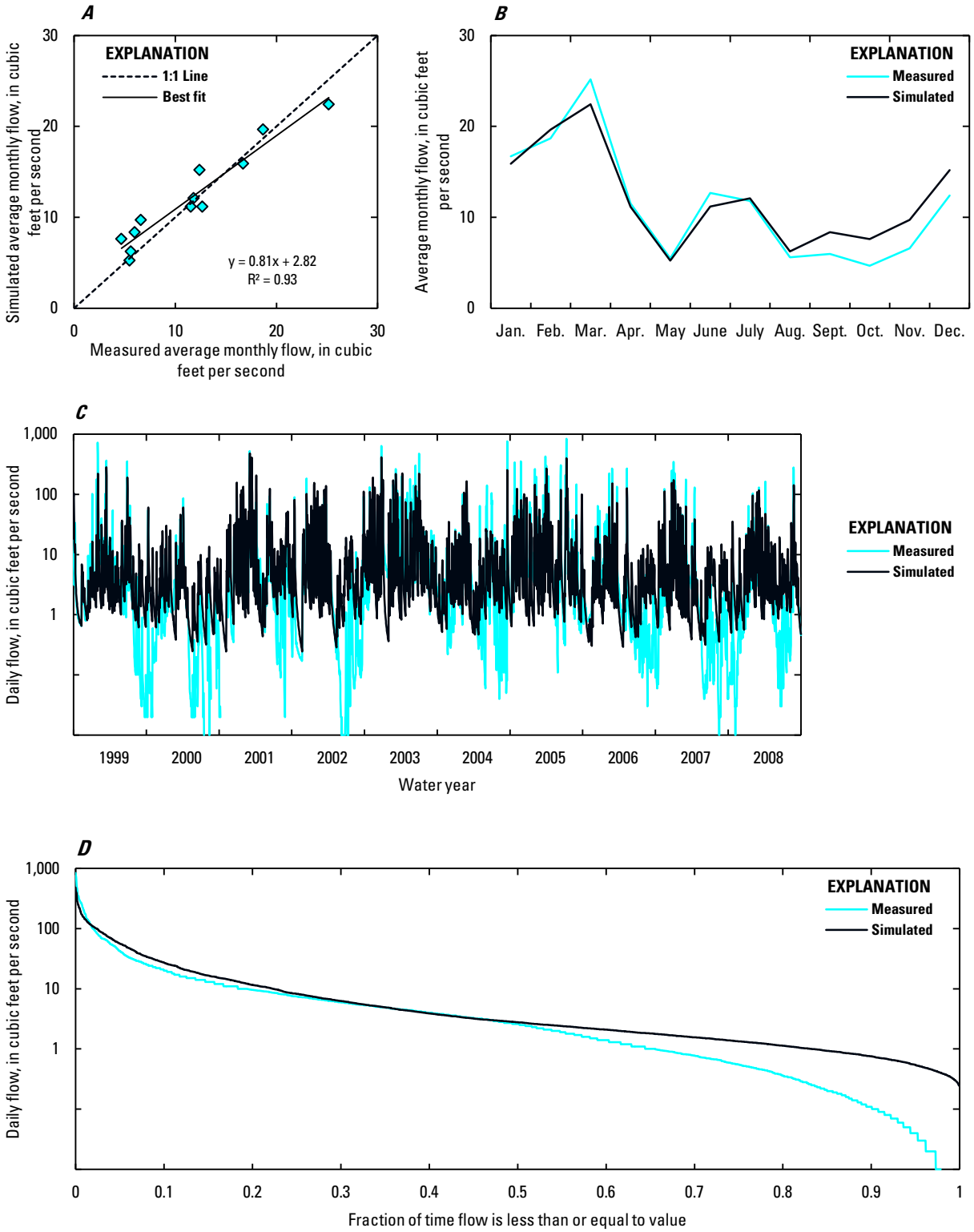

Figure A73. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1999–2008). *C*, Time series of daily flow (1999–2008). *D*, Duration curve of daily flows at USGS station 02470072, Bassett Creek at US Highway 43 near Thomasville, Ala. (1999–2008).

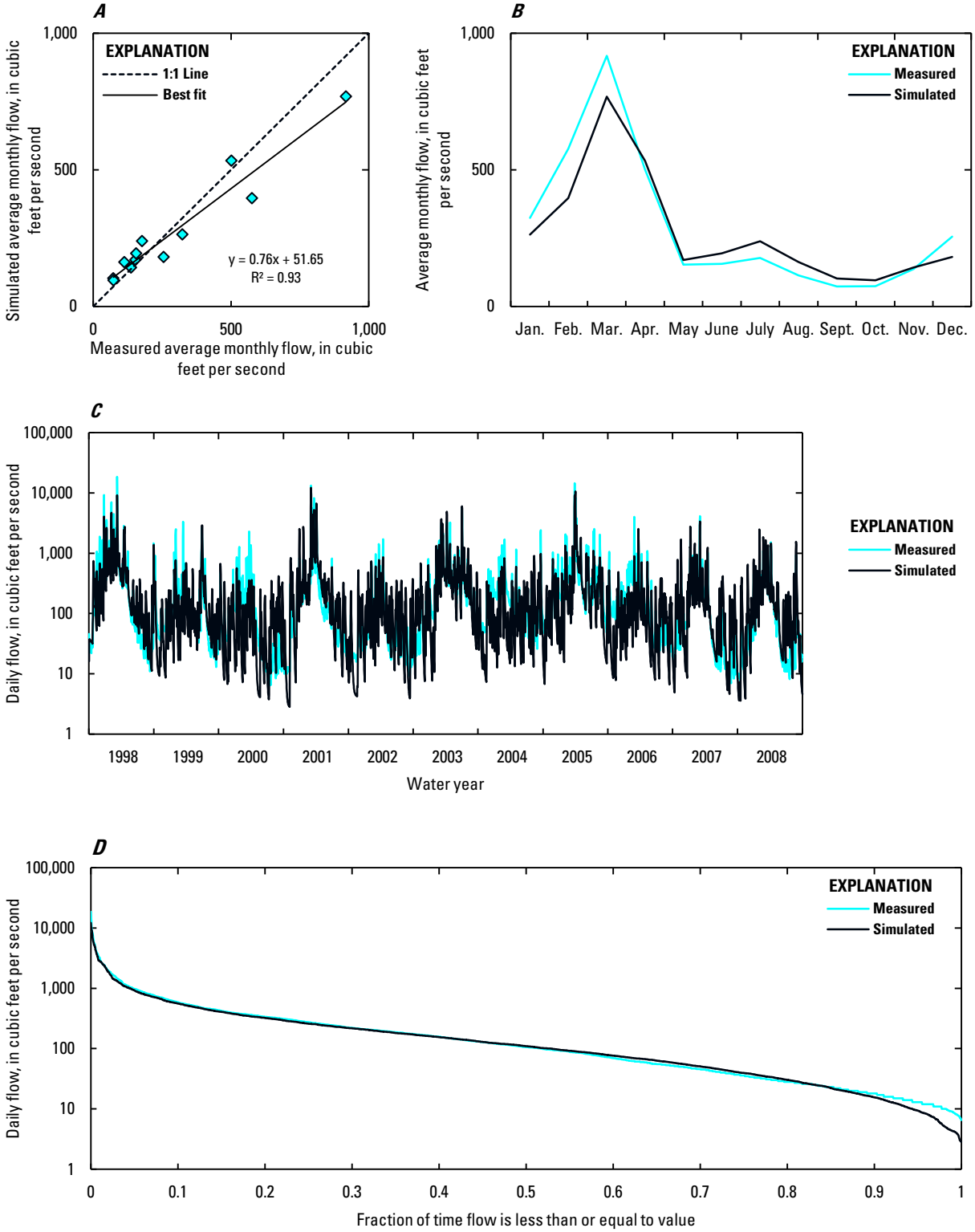

Figure A74. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02419000, Uphapee Creek near Tuskagee, Ala. (1998–2008).

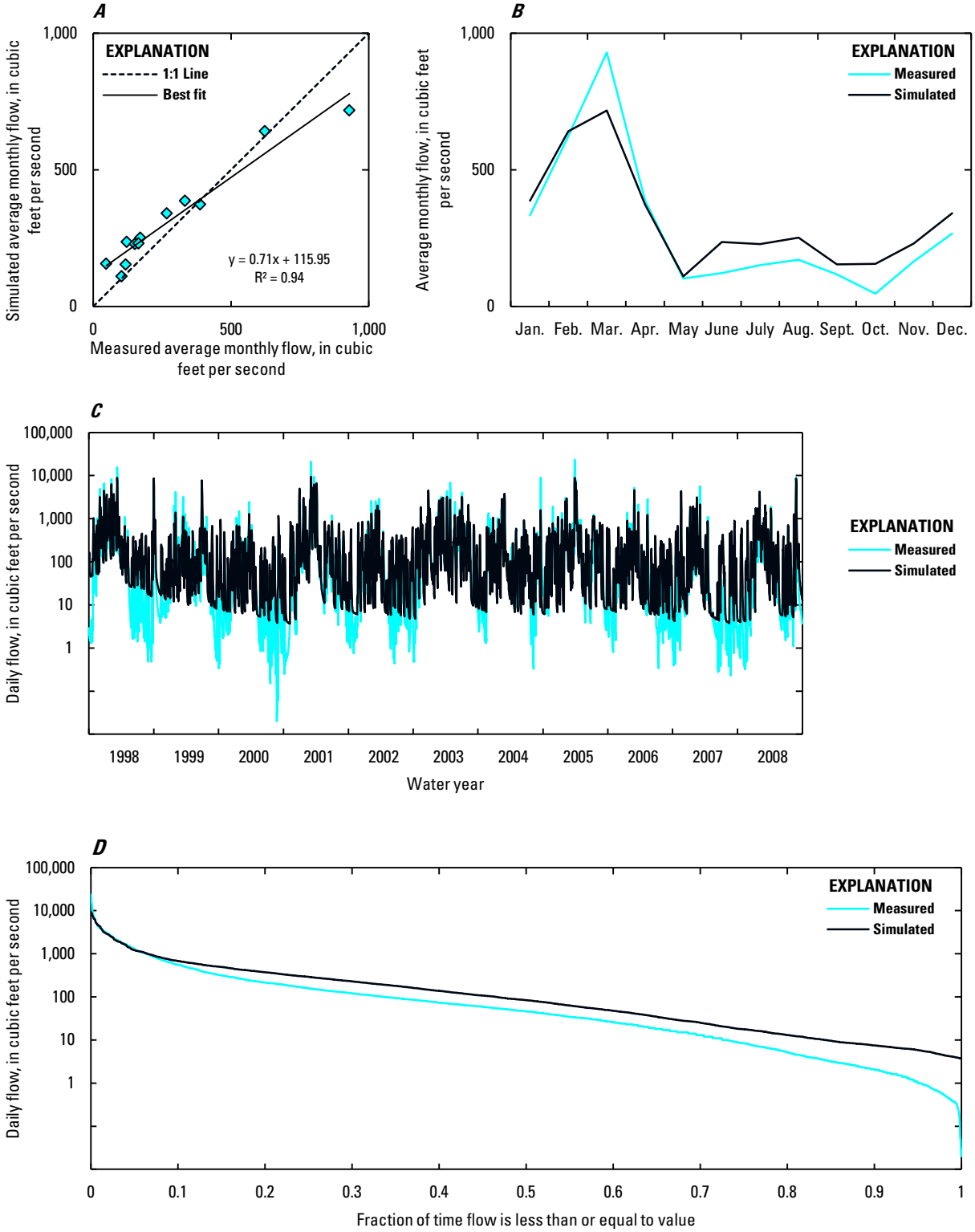

Figure A75. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02421000, Catoma Creek near Montgomery, Ala. (1998–2008).

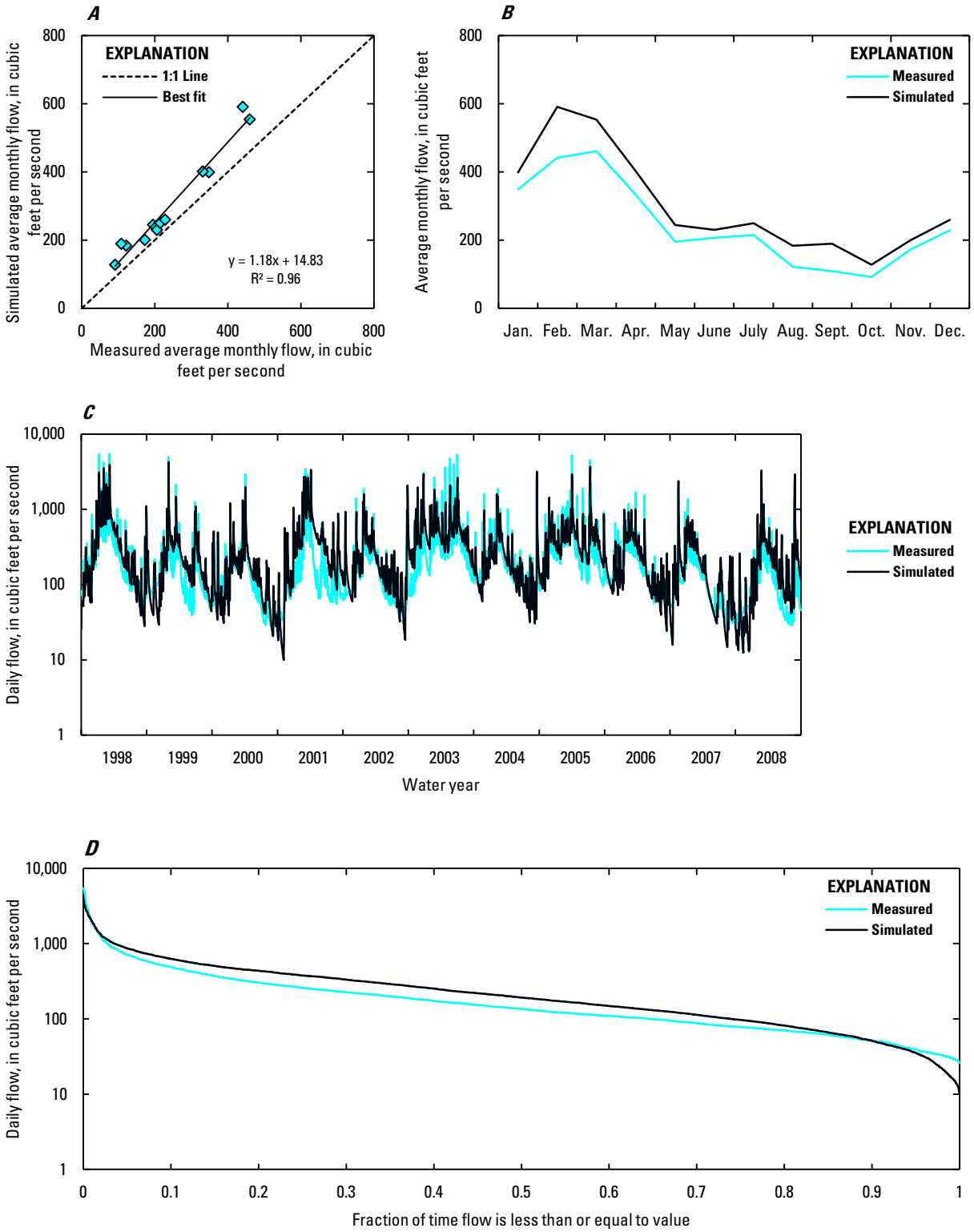

Figure A76. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02422500, Mulberry Creek at Jones, Ala. (1998–2008).

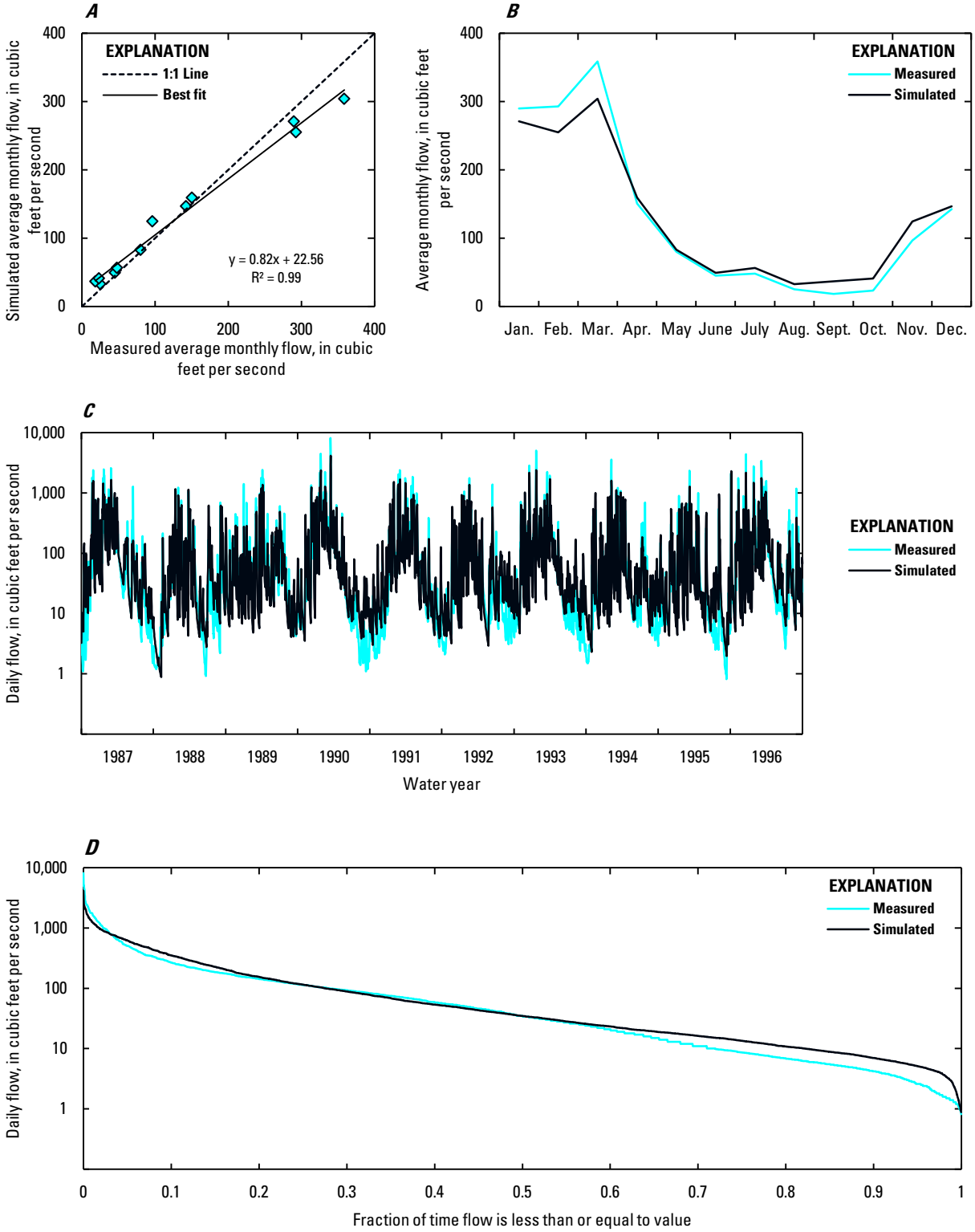

Figure A77. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1987–1996). *C*, Time series of daily flow (1987–1996). *D*, Duration curve of daily flows at USGS station 02427700, Turkey Creek at Kimbrough, Ala. (1987–1996).

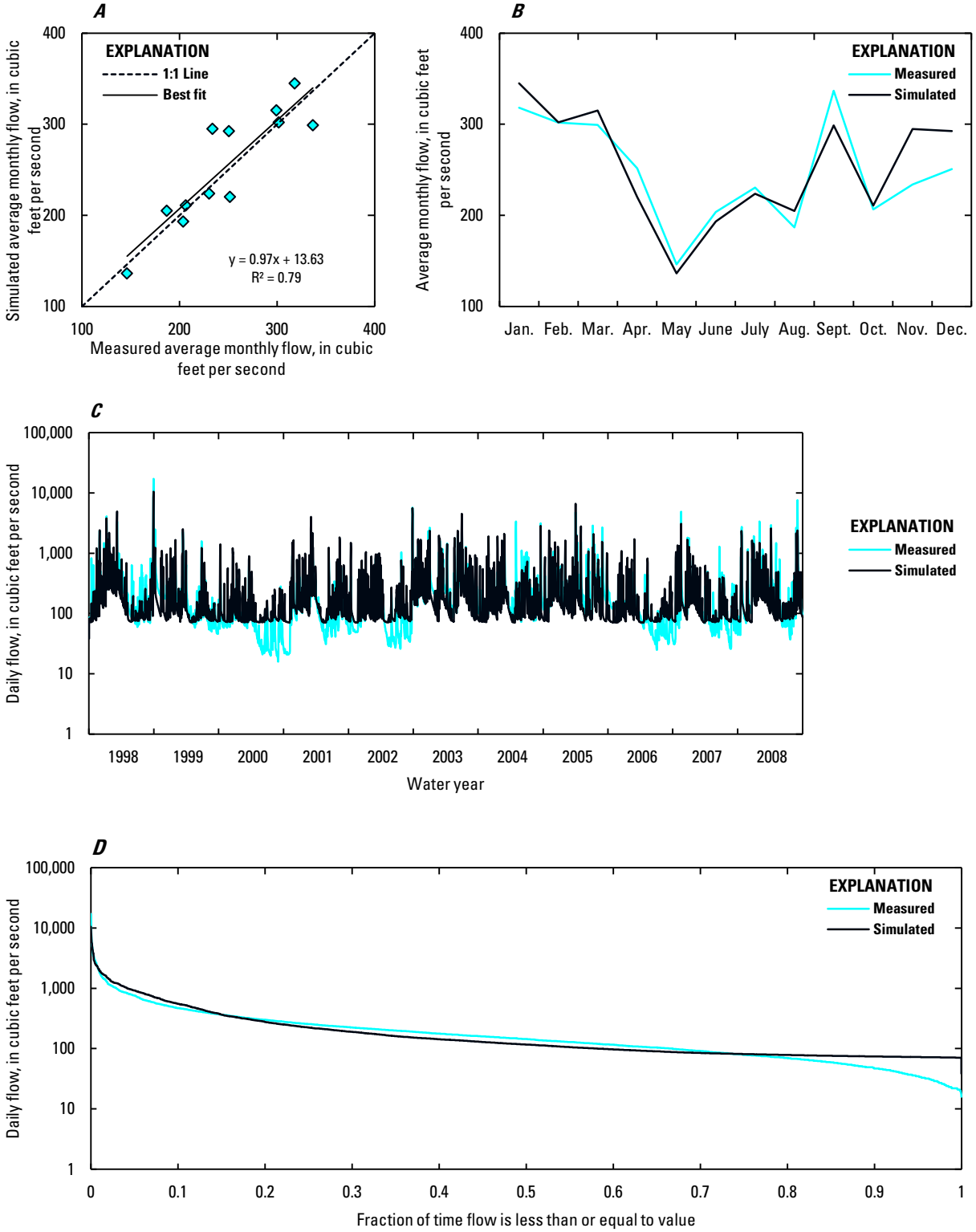

Figure A78. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02471001, Chickasaw Creek near Kushla, Ala. (1998–2008).

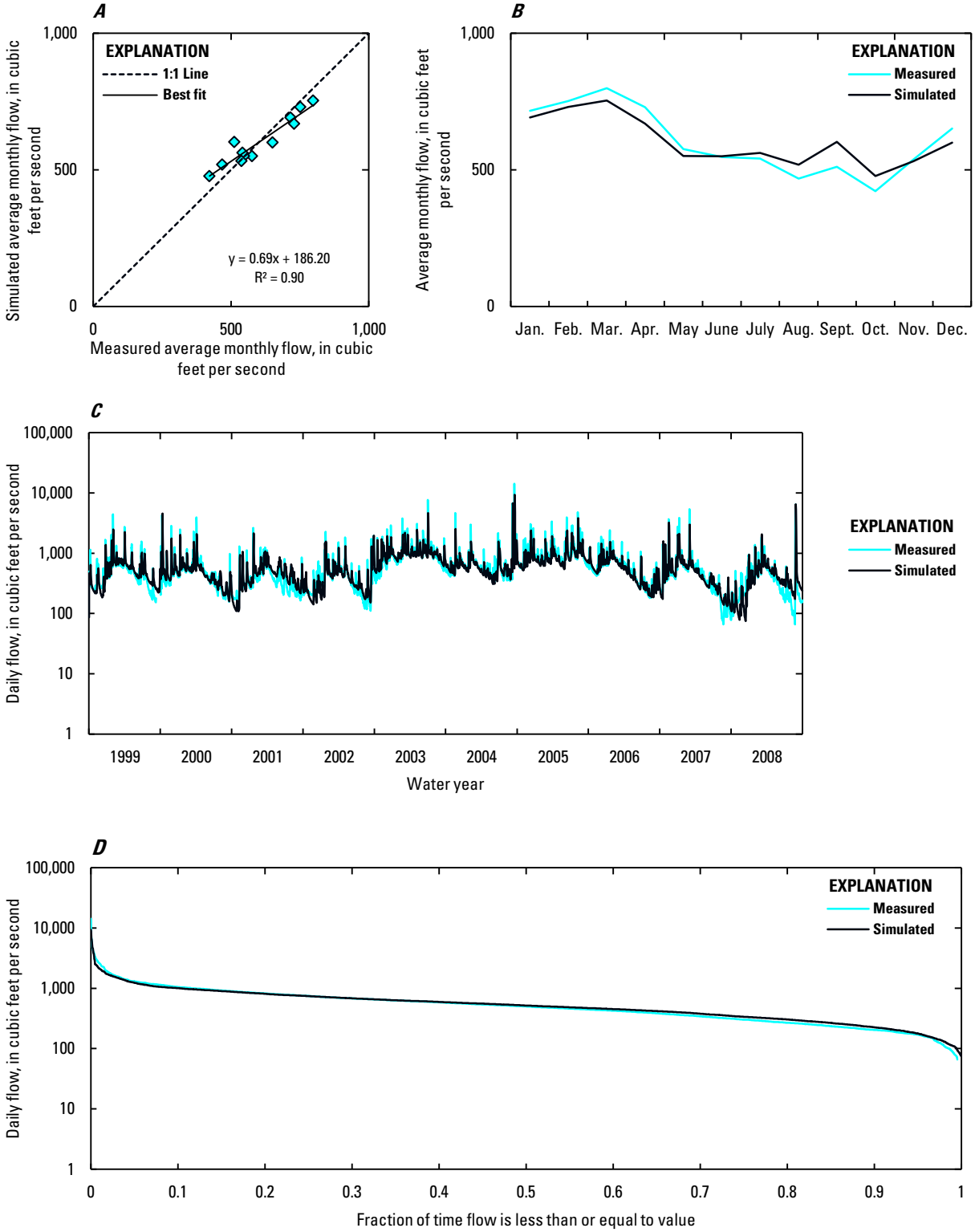

Figure A79. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1999–2008). *C*, Time series of daily flow (1999–2008). *D*, Duration curve of daily flows at USGS station 02331600, Chattahoochee River near Cornelia, Ga. (1999–2008).

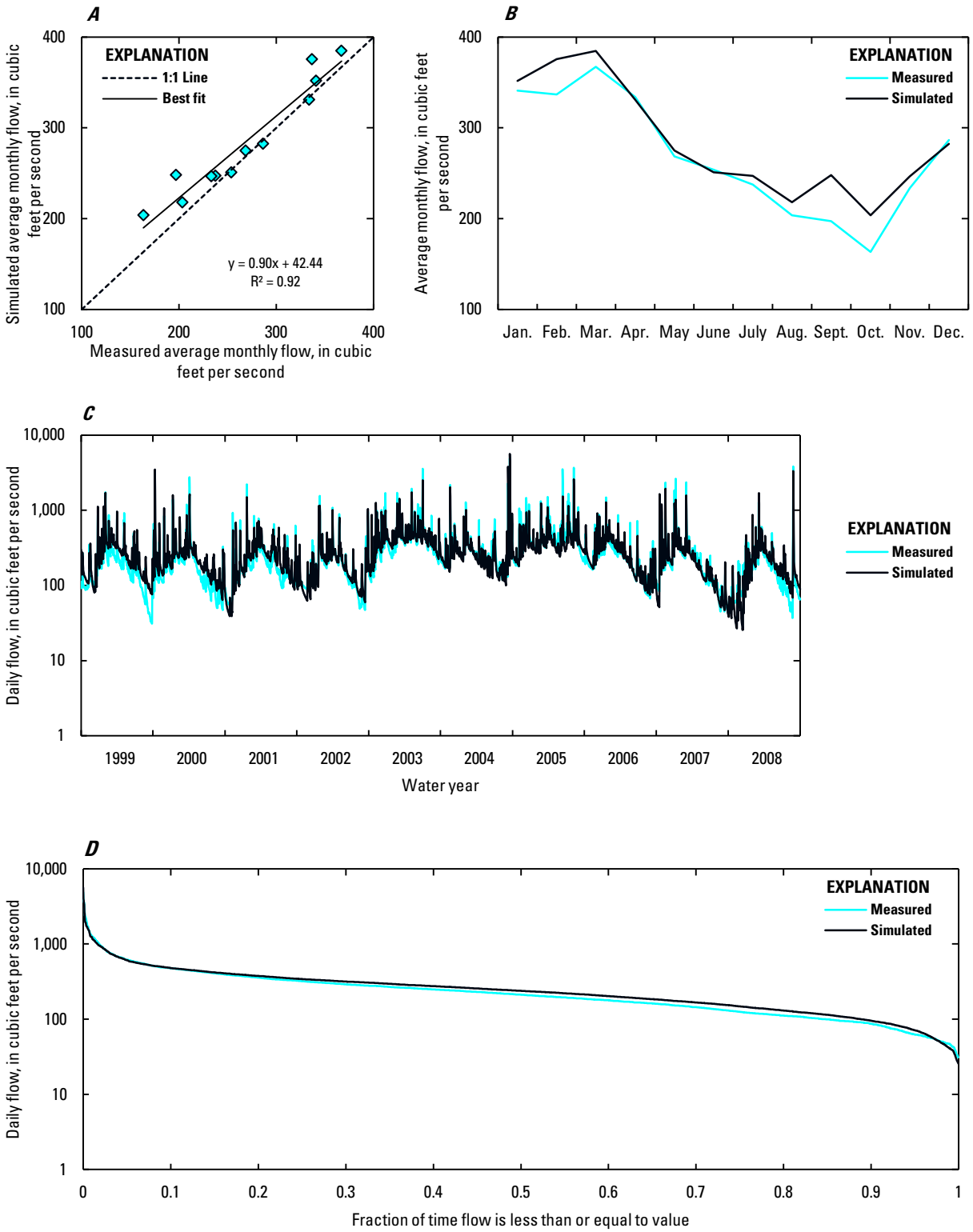

Figure A80. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1999–2008). *C*, Time series of daily flow (1999–2008). *D*, Duration curve of daily flows at USGS station 02333500, Chestatee River near Dahlonega, Ga. (1999–2008).

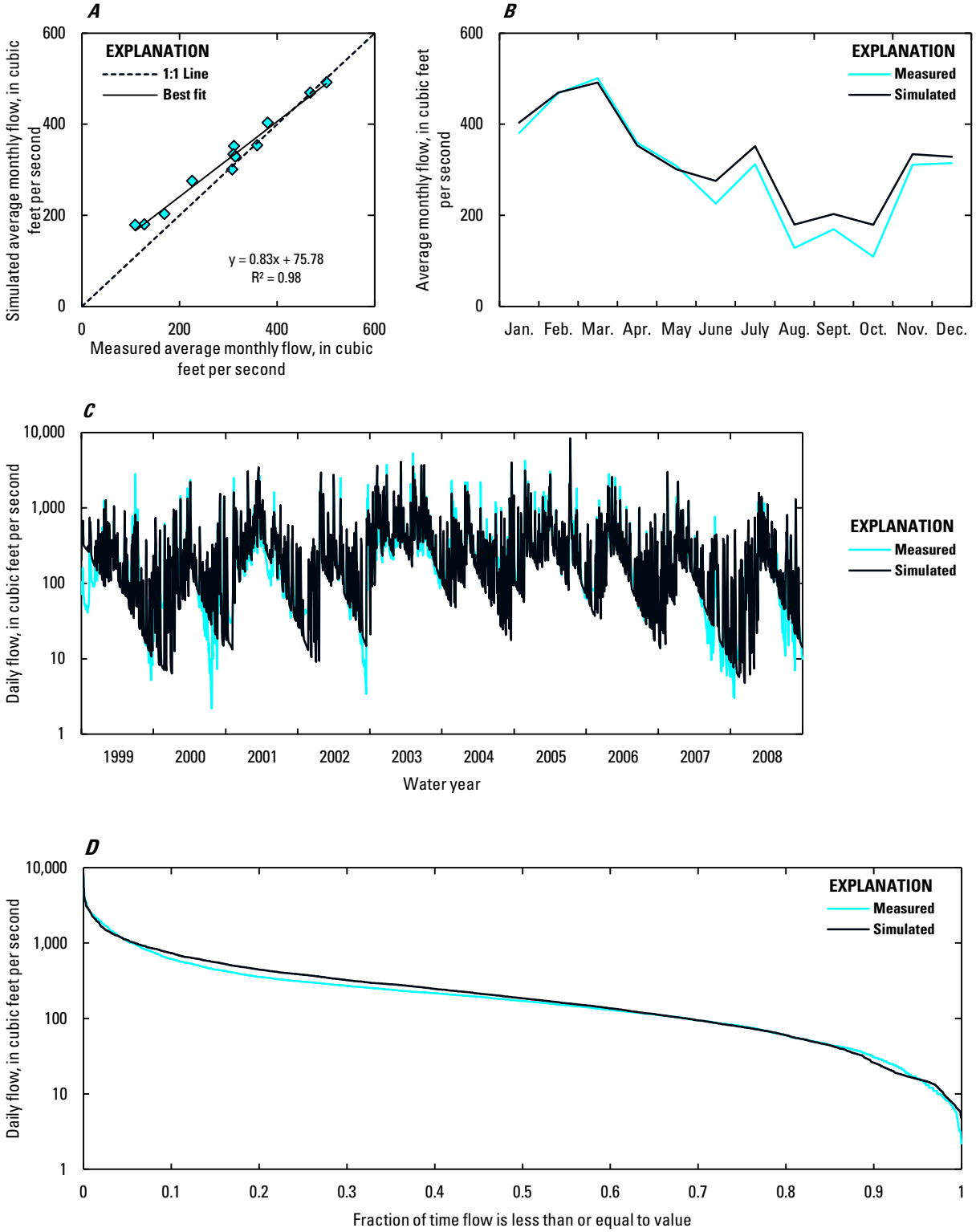

Figure A81. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1999–2008). *C*, Time series of daily flow (1999–2008). *D*, Duration curve of daily flows at USGS station 02337000, Sweetwater Creek near Austell, Ga. (1999–2008).

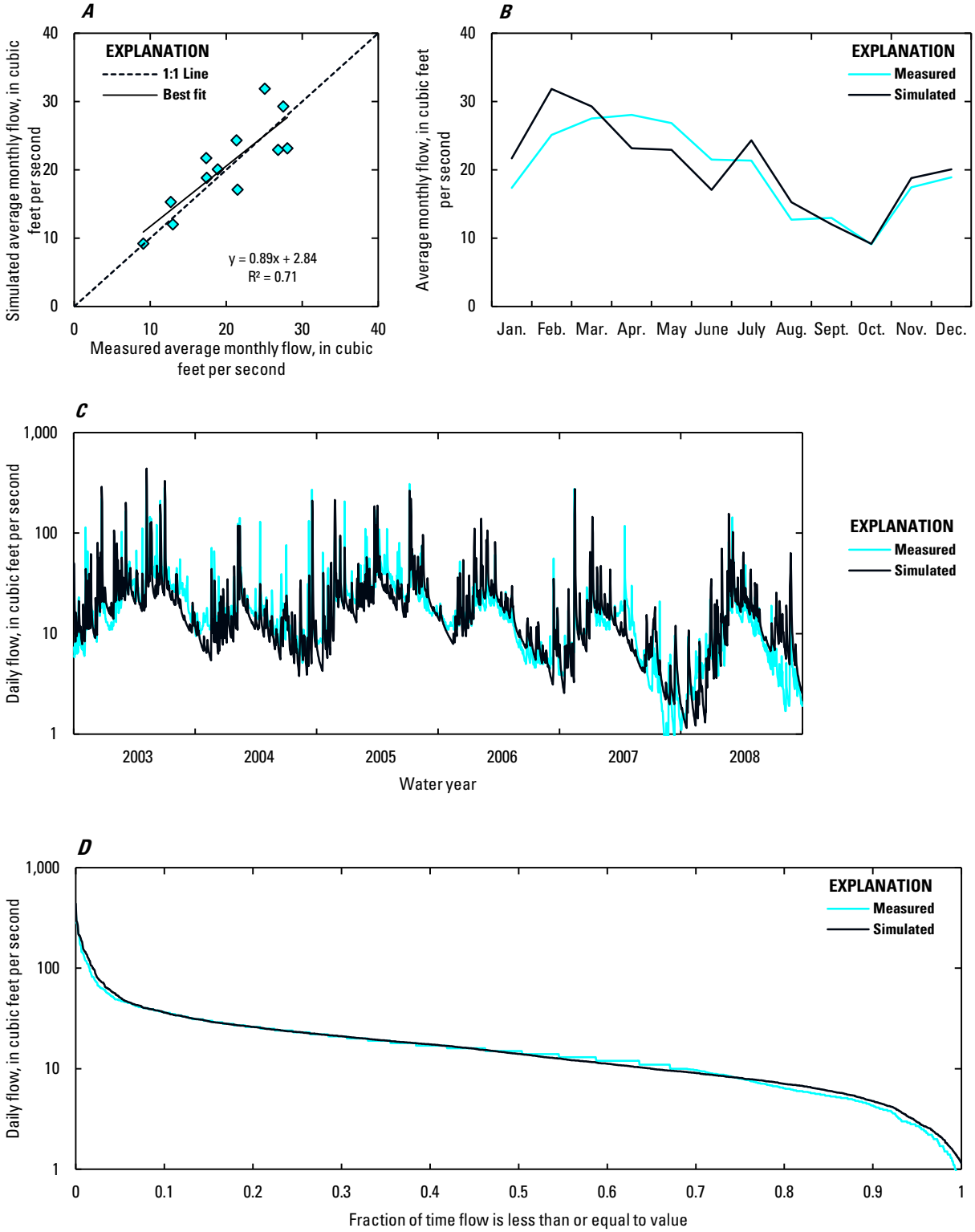

Figure A82. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (2003–2008). *C*, Time series of daily flow (2003–2008). *D*, Duration curve of daily flows at USGS station 02338523, Hillabahatchee Creek at Thaxton Road near Franklin, Ga. (2003–2008).

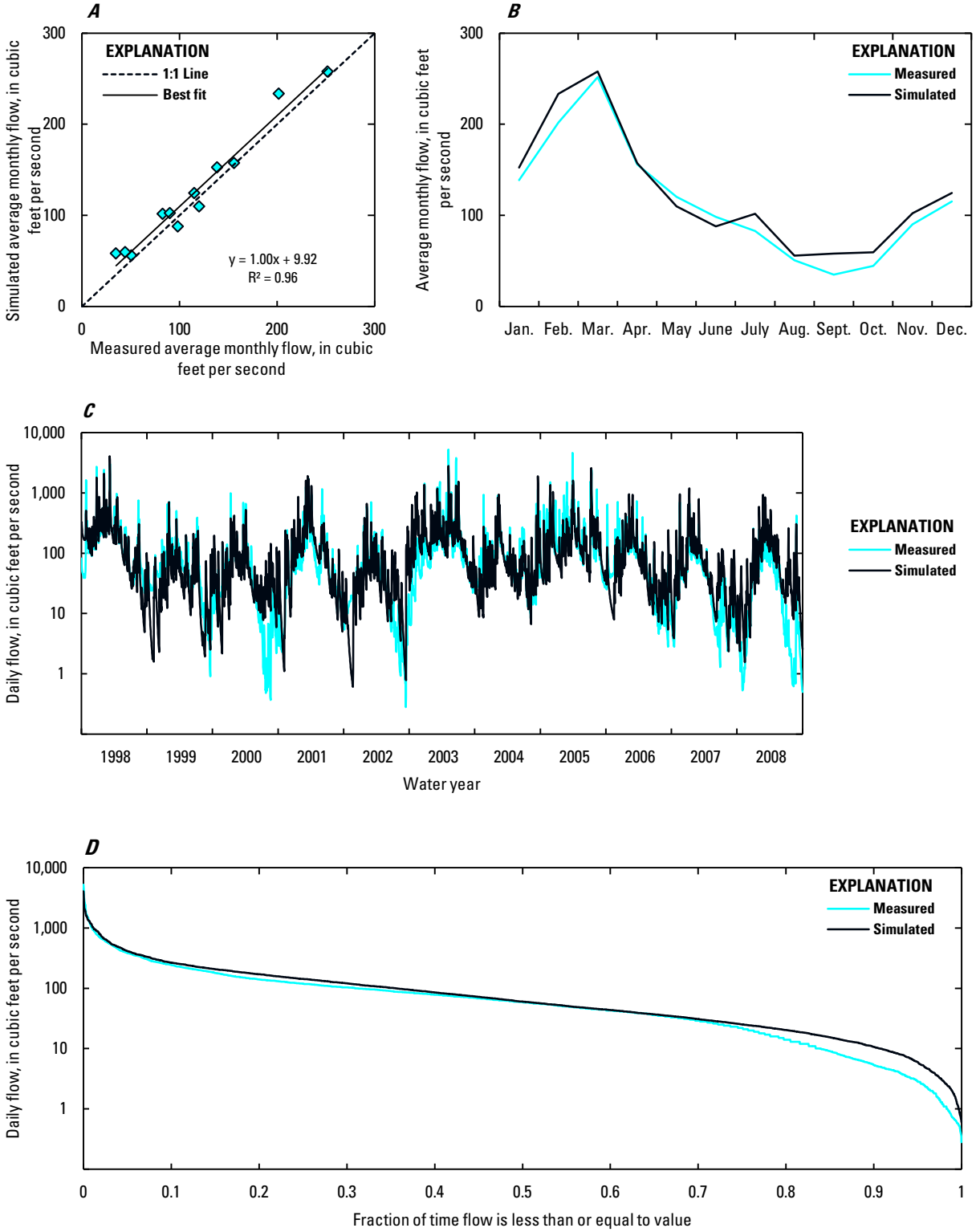

Figure A83. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02338660, New River at GA 100 near Corinth, Ga. (1998–2008).

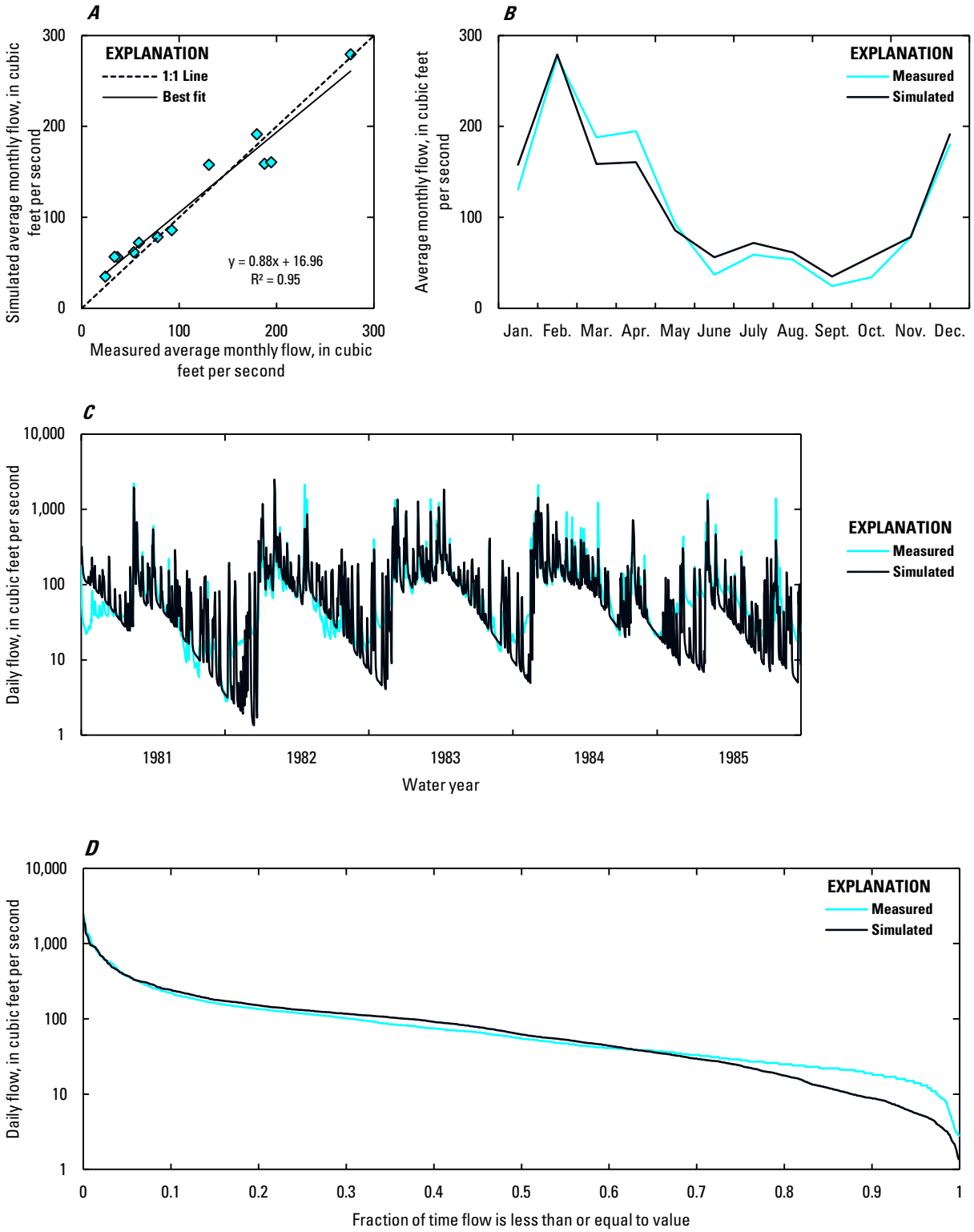

Figure A84. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1981–1985). *C*, Time series of daily flow (1981–1985). *D*, Duration curve of daily flows at USGS station 02338840, Yellowjacket Creek-Hammett Road below Hogansville, Ga. (1981–1985).

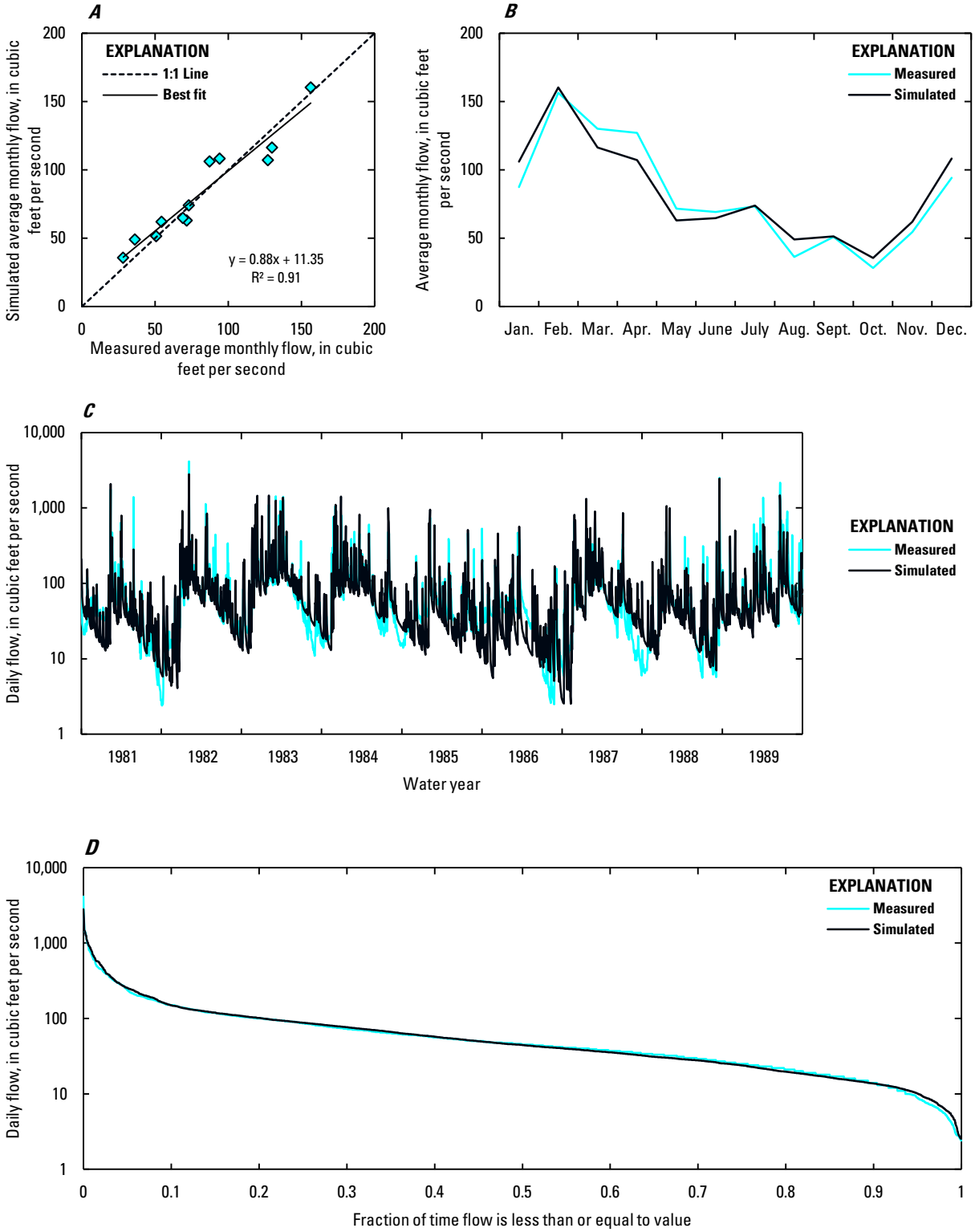

Figure A85. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1981–1989). *C*, Time series of daily flow (1981–1989). *D*, Duration curve of daily flows at USGS station 02339225, Wehadkee Creek below Rock Mills, Ala. (1981–1989).

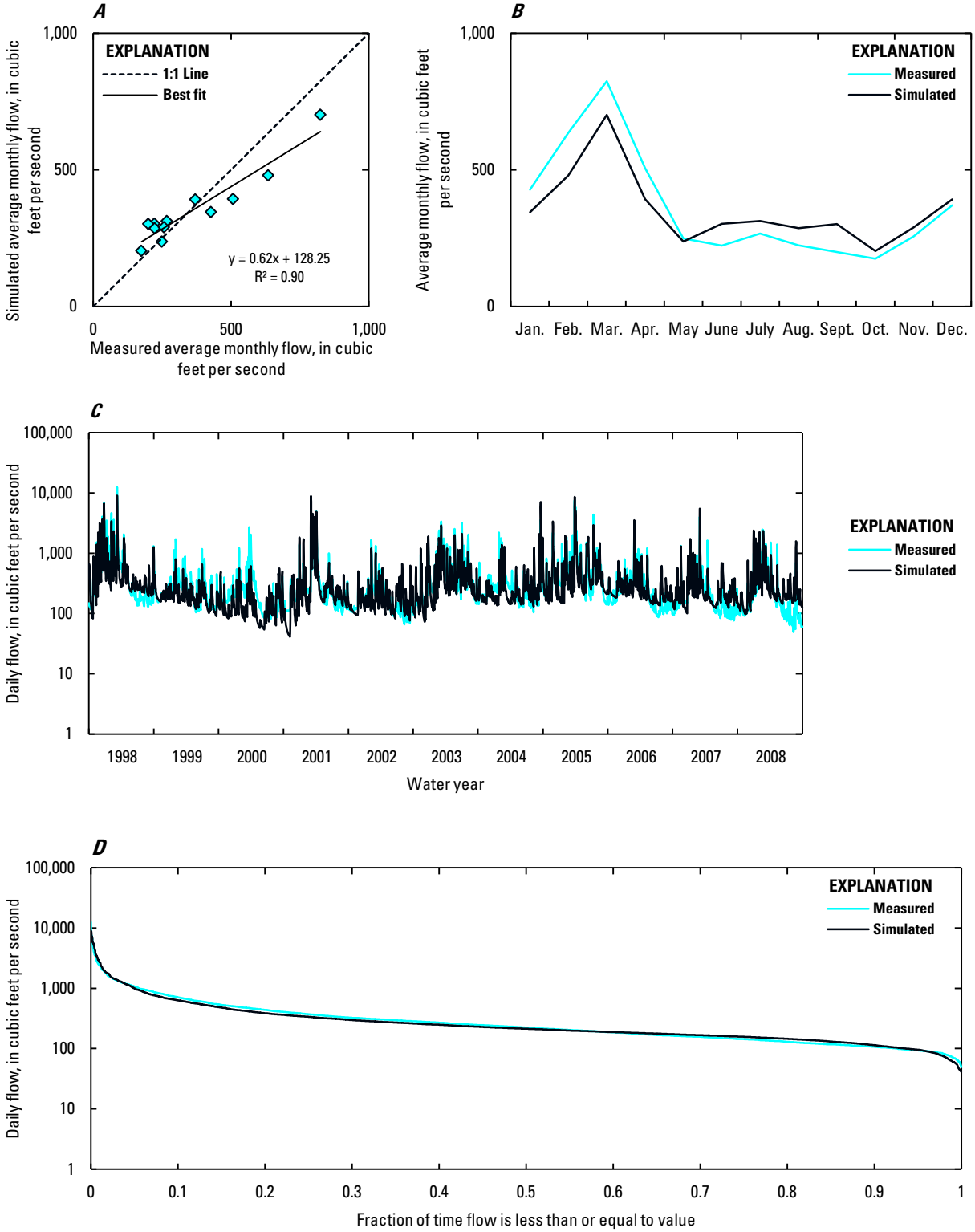

Figure A86. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02341800, Upatoi Creek near Columbus, Ga. (1998–2008).

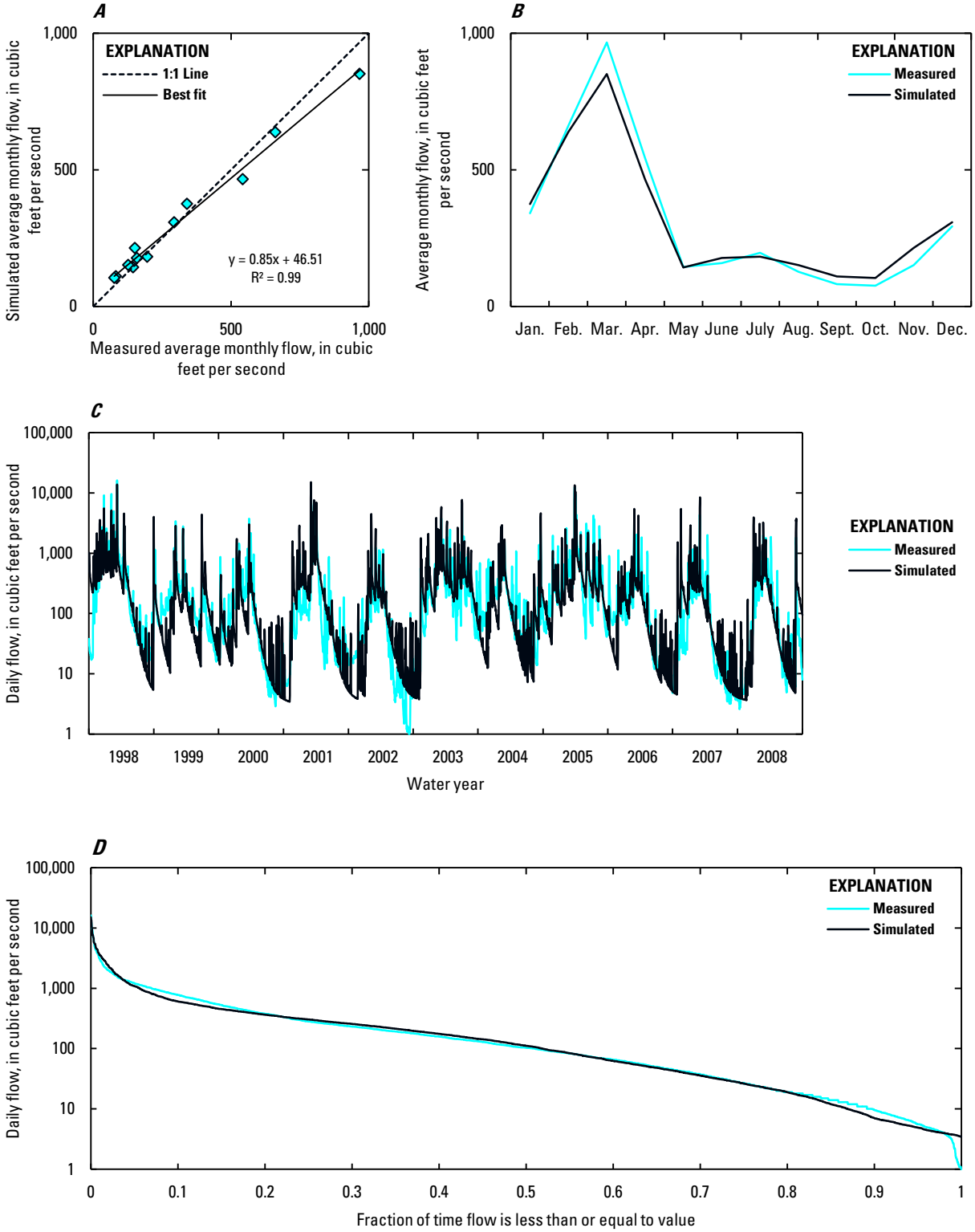

Figure A87. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02342500, Uchee Creek near Fort Mitchell, Ala. (1998–2008).

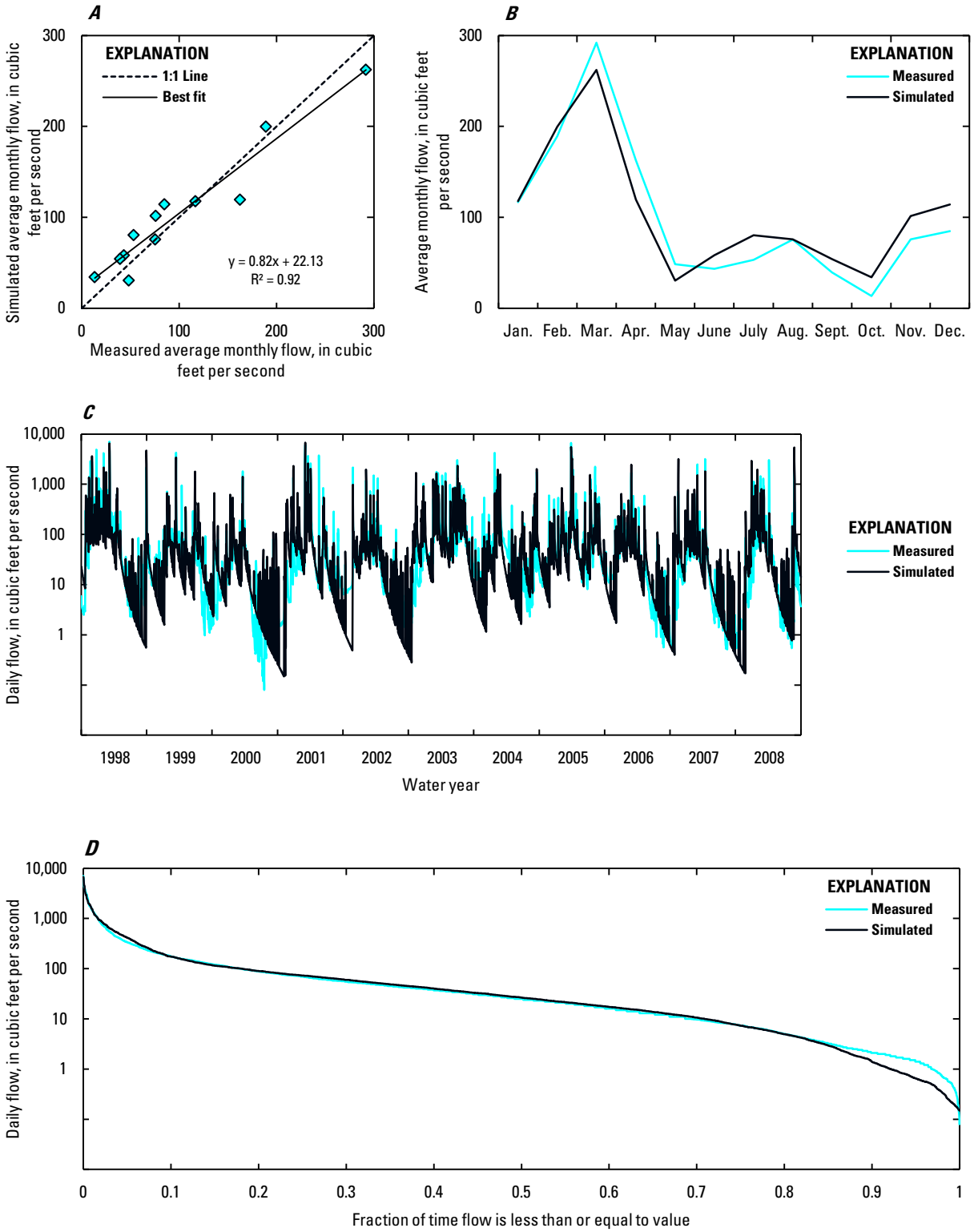

Figure A88. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1998–2008). *C*, Time series of daily flow (1998–2008). *D*, Duration curve of daily flows at USGS station 02342933, South Fork Cowikee Creek near Batesville, Ala. (1998–2008).

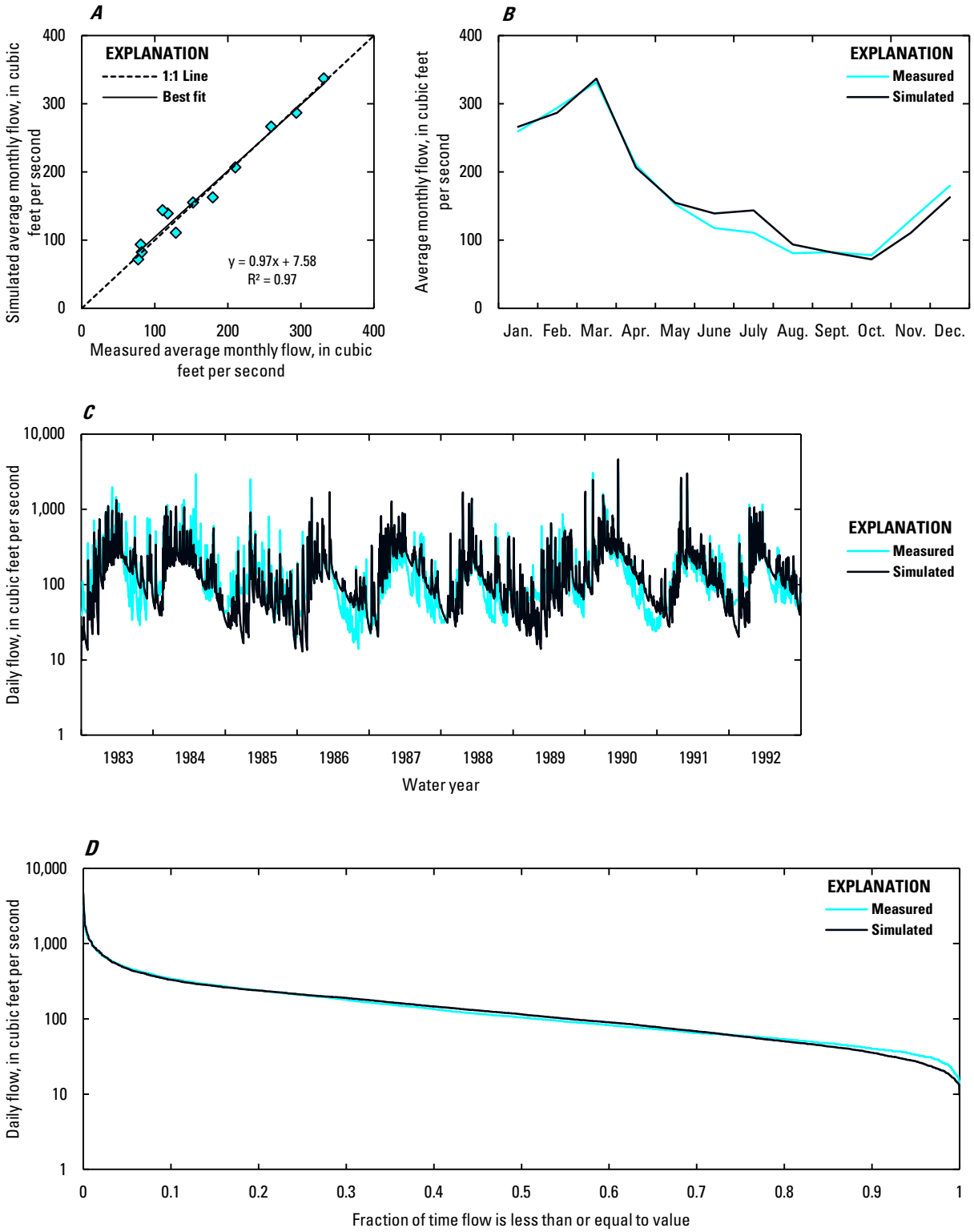

Figure A89. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (1983–1992). *C*, Time series of daily flow (1983–1992). *D*, Duration curve of daily flows at USGS station 02343300, Abbie Creek near Haleburg, Ala. (1983–1992).

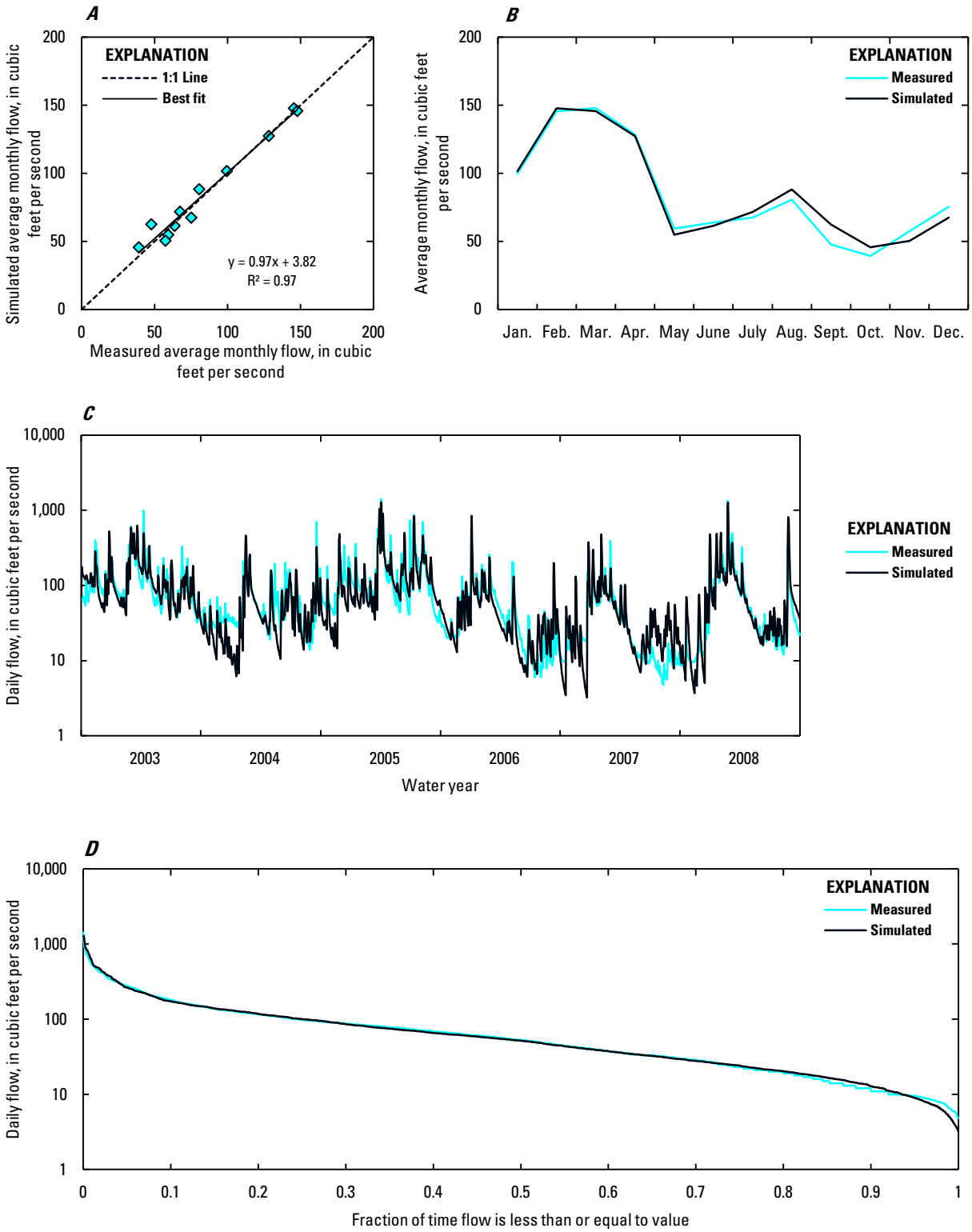

Figure A90. *A*, Best-fit line for simulated versus measured average monthly flow. *B*, Average monthly flow (2003–2008). *C*, Time series of daily flow (2003–2008). *D*, Duration curve of daily flows at USGS station 02343940, Sawhatchee Creek at Cedar Springs, Ga. (2003–2008).