Quantifying Impact of Rainfall on Shallow Groundwater Levels in the Wakool Irrigation District

Butian Wang, Shahbaz Khan, Natalie O’Connell
CSIRO Land and Water, Griffith Laboratory

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Maps Showing Spatial Distribution of Relative Water Table Change in Summer Season Estimated due to Climate Factors Represented by Rainfall

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Appendix A

Maps Showing Spatial Distribution of Relative Water Table Change in Summer Season Estimated due to Climate Factors Represented by Rainfall
Figure A1. Relative water table change in 1965 summer season (between Sep-64 and Mar-65) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 67).

Figure A2. Relative water table change in 1966 summer season (between Sep-65 and Mar-66) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 105).
Figure A3. Relative water table change in 1967 summer season (between Sep-66 and Mar-67) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 99).

Figure A4. Relative water table change in 1968 summer season (between Sep-67 and Mar-68) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 123).
Appendix A: Maps Showing Spatial Distribution of Relative Water Table Change in Summer Season
Estimated due to Climate Factors Represented by Rainfall

Figure A5. Relative water table change in 1969 summer season (between Sep-68 and Mar-69) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 137).

Figure A6. Relative water table change in 1970 summer season (between Sep-69 and Mar-70) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 223).
Figure A7. Relative water table change in 1971 summer season (between Sep-70 and Mar-71) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 267).

Figure A8. Relative water table change in 1972 summer season (between Sep-71 and Mar-72) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 285).
Appendix A: Maps Showing Spatial Distribution of Relative Water Table Change in Summer Season
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Figure A9. Relative water table change in 1973 summer season (between Sep-72 and Mar-73) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 191).

Figure A10. Relative water table change in 1974 summer season (between Sep-73 and Mar-74) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 173).
Figure A11. Relative water table change in 1975 summer season (between Sep-74 and Mar-75) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 241).

Figure A12. Relative water table change in 1976 summer season (between Sep-75 and Mar-76) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 373).
Figure A13. Relative water table change in 1977 summer season (between Sep-76 and Mar-77) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 97).

Figure A14. Relative water table change in 1978 summer season (between Sep-77 and Mar-78) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 95).
Figure A15. Relative water table change in 1979 summer season (between Sep-78 and Feb-79) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 353).

Figure A16. Relative water table change in 1980 summer season (between Aug-79 and Jan-80) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 407).
Figure A17. Relative water table change in 1981 summer season (between Aug-80 and Feb-81) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 391).

Figure A18. Relative water table change in 1982 summer season (between Aug-81 and Feb-82) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 392).
Appendix A: Maps Showing Spatial Distribution of Relative Water Table Change in Summer Season
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Figure A19. Relative water table change in 1983 summer season (between Aug-82 and Feb-83) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 622).

Figure A20. Relative water table change in 1984 summer season (between Aug-83 and Feb-84) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 673).
Appendix A: Maps Showing Spatial Distribution of Relative Water Table Change in Summer Season
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Figure A21. Relative water table change in 1985 summer season (between Jul-84 and Feb-85) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 699).

Figure A22. Relative water table change in 1986 summer season (between Jul-85 and Feb-86) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 610).
Appendix A: Maps Showing Spatial Distribution of Relative Water Table Change in Summer Season
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Figure A23. Relative water table change in 1987 summer season (between Jul-86 and Feb-87) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 610).

Figure A24. Relative water table change in 1988 summer season (between Jul-87 and Feb-88) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 628).

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Figure A25. Relative water table change in 1989 summer season (between Jul-88 and Feb-89) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 642).

Figure A26. Relative water table change in 1990 summer season (between Jul-89 and Feb-90) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 637).
Appendix A: Maps Showing Spatial Distribution of Relative Water Table Change in Summer Season

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Figure A27. Relative water table change in 1991 summer season (between Jul-90 and Feb-91) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 573).

Figure A28. Relative water table change in 1992 summer season (between Jul-91 and Feb-92) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 583).
Appendix A: Maps Showing Spatial Distribution of Relative Water Table Change in Summer Season
Estimated due to Climate Factors Represented by Rainfall

Figure A29. Relative water table change in 1993 summer season (between Jul-92 and Feb-93) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 601).

Figure A30. Relative water table change in 1994 summer season (between Jul-93 and Feb-94) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 595).
Appendix A: Maps Showing Spatial Distribution of Relative Water Table Change in Summer Season Estimated due to Climate Factors Represented by Rainfall

Figure A31. Relative water table change in 1995 summer season (between Jul-94 and Feb-95) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 579).

Figure A32. Relative water table change in 1996 summer season (between Jul-95 and Feb-96) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 88).
Figure A33. Relative water table change in 1997 summer season (between Jul-96 and Mar-97) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 289).

Figure A34. Relative water table change in 1998 summer season (between Aug-97 and Mar-98) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 313).
Appendix A: Maps Showing Spatial Distribution of Relative Water Table Change in Summer Season
Estimated due to Climate Factors Represented by Rainfall

Figure A35. Relative water table change in 1999 summer season (between Aug-98 and Mar-99) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 349).

Figure A36. Relative water table change in 2000 summer season (between Aug-99 and Mar-00) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 350).
Appendix B

Maps Showing Spatial Distribution of Relative Water Table Change in Winter Season Estimated due to Climate Factors Represented by Rainfall
Appendix B: Maps Showing Spatial Distribution of Relative Water Table Change in Winter Season Estimated due to Climate Factors Represented by Rainfall

Figure B1. Relative water table change in 1965 winter season (between Mar-65 and Sep-65) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 67).

Figure B2. Relative water table change in 1966 winter season (between Mar-66 and Sep-66) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 105).
Appendix B: Maps Showing Spatial Distribution of Relative Water Table Change in Winter Season
Estimated due to Climate Factors Represented by Rainfall

Figure B3. Relative water table change in 1967 winter season (between Mar-67 and Sep-67) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 99).

Figure B4. Relative water table change in 1968 winter season (between Mar-68 and Sep-68) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 123).
Appendix B: Maps Showing Spatial Distribution of Relative Water Table Change in Winter Season Estimated due to Climate Factors Represented by Rainfall

Figure B3. Relative water table change in 1969 winter season (between Mar-69 and Sep-69) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 137).

Figure B6. Relative water table change in 1970 winter season (between Mar-70 and Sep-70) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 223).
Figure B7. Relative water table change in 1971 winter season (between Mar-71 and Sep-71) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 267).

Figure B8. Relative water table change in 1972 winter season (between Mar-72 and Sep-72) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 285).
Appendix B: Maps Showing Spatial Distribution of Relative Water Table Change in Winter Season
Estimated due to Climate Factors Represented by Rainfall

Figure B9. Relative water table change in 1973 winter season (between Mar-73 and Sep-73) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 191).

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Figure B11. Relative water table change in 1975 winter season (between Mar-75 and Sep-75) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 241).

Figure B12. Relative water table change in 1976 winter season (between Mar-76 and Sep-76) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 373).
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Figure B13. Relative water table change in 1977 winter season (between Mar-77 and Sep-77) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 97).

Figure B14. Relative water table change in 1978 winter season (between Mar-78 and Sep-78) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 95).
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Figure B15. Relative water table change in 1979 winter season (between Feb-79 and Aug-79) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 353).

Figure B16. Relative water table change in 1980 winter season (between Jan-80 and Aug-80) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 407).
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Figure B17. Relative water table change in 1981 winter season (between Feb-81 and Aug-81) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 391).

Figure B18. Relative water table change in 1982 winter season (between Feb-82 and Aug-82) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 392).
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Figure B319. Relative water table change in 1983 winter season (between Feb-83 and Aug-83) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 622).

Figure B320. Relative water table change in 1984 winter season (between Feb-84 and Jul-84) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 673).
Appendix B: Maps Showing Spatial Distribution of Relative Water Table Change in Winter Season Estimated due to Climate Factors Represented by Rainfall

Figure B321. Relative water table change in 1985 winter season (between Feb-85 and Jul-85) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 699).

Figure B322. Relative water table change in 1986 winter season (between Feb-86 and Jul-86) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 610).
Appendix B: Maps Showing Spatial Distribution of Relative Water Table Change in Winter Season
Estimated due to Climate Factors Represented by Rainfall

Figure B.323. Relative water table change in 1987 winter season (between Feb-87 and Jul-87) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 610).

Figure B.324. Relative water table change in 1988 winter season (between Feb-88 and Jul-88) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 628).
Appendix B: Maps Showing Spatial Distribution of Relative Water Table Change in Winter Season Estimated due to Climate Factors Represented by Rainfall

Figure B25. Relative water table change in 1989 winter season (between Feb-89 and Jul-89) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 642).

Figure B26. Relative water table change in 1990 winter season (between Feb-90 and Jul-90) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 637).
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Figure B30. Relative water table change in 1994 winter season (between Feb-94 and Jul-94) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 595).
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Figure B32. Relative water table change in 1996 winter season (between Feb-96 and Jul-96) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 88).
Appendix B: Maps Showing Spatial Distribution of Relative Water Table Change in Winter Season
Estimated due to Climate Factors Represented by Rainfall

Figure B33. Relative water table change in 1997 winter season (between Mar-97 and Aug-97) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 289).

Figure B34. Relative water table change in 1998 winter season (between Mar-98 and Aug-98) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 313).
Appendix B: Maps Showing Spatial Distribution of Relative Water Table Change in Winter Season
Estimated due to Climate Factors Represented by Rainfall

Figure B35. Relative water table change in 1999 winter season (between Mar-99 and Aug-99) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 349).

Figure B36. Relative water table change in 2000 winter season (between Mar-00 and Aug-00) estimated due to climate factors represented by rainfall. (Number of piezometers with data from which the water table is generated: 350).