

## Articles

|   |    |
|---|----|
| Sequestering carbon in minimum-tilled clay soils used for irrigated cotton and grain production<br>I.J. Rochester (Narrabri, Australia) .....   | 1  |
| Runoff estimation in small rural watersheds using DEMS in North West of Argentina<br>H.G. Rosatto (Buenos Aires, Argentina), A. Tolon-Becerra (Almería, Spain), G. Botta (Buenos Aires, Argentina) and<br>M.E. Presutti (La Plata, Argentina) .....   | 8  |
| Short-term effects of treated wastewater irrigation on Mediterranean calcareous soil<br>A. Morugán-Coronado, F. García-Orenes, J. Mataix-Solera, V. Arcenegui and J. Mataix-Beneyto (Alicante, Spain) .....   | 18 |
| Long-term tillage and crop rotation determines the mineral nutrient distributions of some elements in a Vertic Epiaqualf<br>J.H. Houx III, W.J. Wiebold and F.B. Fritschi (Columbia, MO, USA) .....   | 27 |
| Soil carbon dynamics and crop productivity as influenced by climate change in a rainfed cereal system under contrasting tillage<br>using EPIC<br>R. Farina (Foggia, Italy), G. Seddaiu (Sassari, Italy), R. Orsini (Ancona, Italy), E. Steglich (Temple, TX, USA), P.P. Roggero<br>(Sassari, Italy) and R. Francaviglia (Rome, Italy) ..... | 36 |
| Impact of tillage on solute transport in a loamy soil from leaching experiments<br>A. Besson (Louvain-la-Neuve, France and Orleans, France), M. Javaux, C.L. Biielders and M. Vanclooster (Louvain-la-Neuve,<br>Belgium) .....  | 47 |
| Mulch effects on soil moisture and nitrogen, weed growth and irrigated maize productivity in a warm-temperate climate of<br>South Africa<br>F.S. Murungu, C. Chiduza, P. Muchaonyerwa and P.N.S. Mnkeni (Alice, South Africa) .....   | 58 |
| A simple bund plugging technique for improving water productivity in wetland rice<br>M.D. Patil, B.S. Das and P.B.S. Bhadoria (Kharagpur, India) .....  | 66 |
| Water use efficiency of dryland cowpea, sorghum and sunflower under reduced tillage<br>T.S. Moroke (Gaborone, Botswana), R.C. Schwartz (Bushland, TX, USA), K.W. Brown and A.S.R. Juo (College Station,<br>TX, USA) .....   | 76 |
| Soil responses to different management practices in rainfed orchards in semiarid environments<br>M.E. Ramos, A.B. Robles (Granada, Spain), A. Sánchez-Navarro (Murcia, Spain) and J.L. González-Rebollar<br>(Granada, Spain) .....  | 85 |
| Effects of tillage and plastic mulch on soil water, growth and yield of spring-sown maize<br>S. Zhang, P. Li, X. Yang, Z. Wang and X. Chen (Shaanxi, China) .....   | 92 |

## Short communication

|   |    |
|---|----|
| The geometric characterization of mouldboard plough surfaces by using splines<br>E. Gutiérrez de Ravé, F.J. Jiménez-Hornero, J.M. Muñoz-Piorno and J.V. Giráldez (Córdoba, Spain) ..... | 98 |
|---|----|