

Irrigation Science and Technology to the Service of Farmers and Agriculture

A Personal View of WINOTEC-2012

Luciano Mateos

***Instituto de Agricultura Sostenible, CSIC
Córdoba, Spain***

Outline

- 1. Agricultural contexts and technology context**
- 2. Efficiency and productivity: concepts or judgments?**
- 3. Technologies for everyone**
- 4. Technology to protect the environment**



Image © 2012 DigitalGlobe

© 2012 Cnes/Spot Image
© 2012 MapLink/Tele Atlas

13°08'18.11" S 41°29'12.90" O elev. 1142 m

Google earth

Alt. ojo 15.33 km



 **NETAFIM™**



1st message

The technical constraints and the socioeconomic context for irrigation improvement must be thoroughly understood before selecting the appropriate technologies

Outline

1. Agricultural contexts and technology context
- 2. Efficiency and productivity: concepts or judgments?**
3. Technologies for everyone
4. Technology to protect the environment





2nd message

Irrigation efficiency, water allocation efficiency, and water productivity are not neutral facts

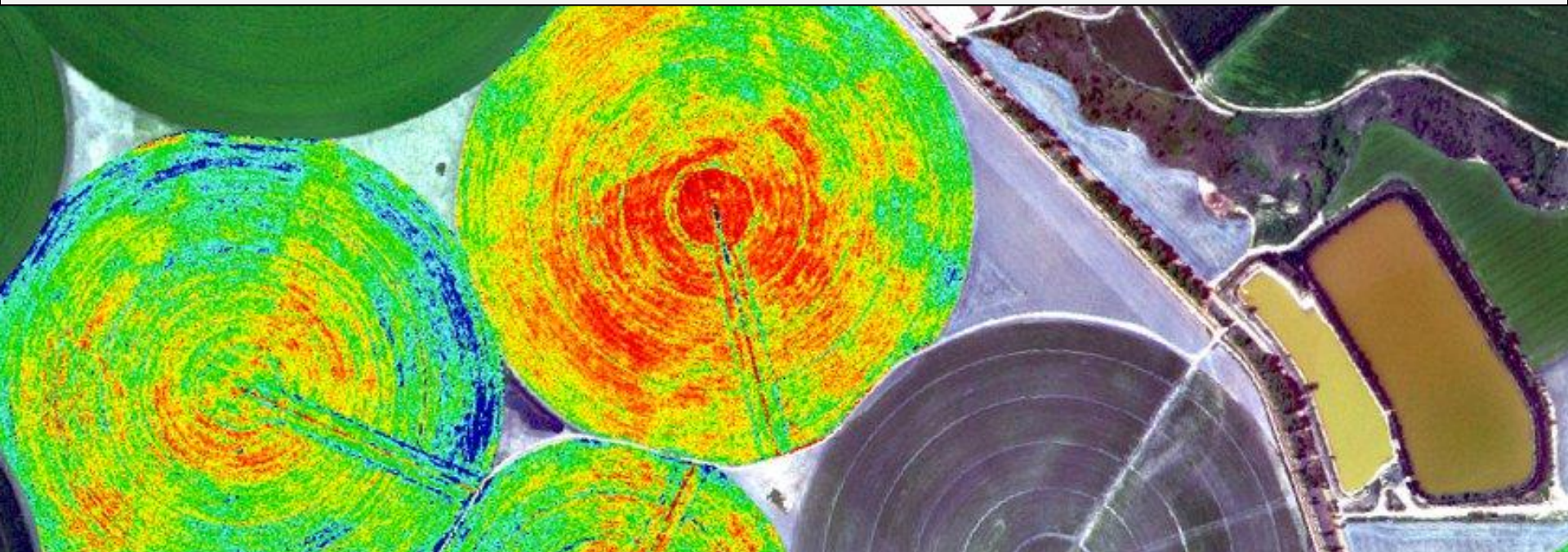
“More poverty reduction per drop of water consumed” (Keller, yesterday)





Outline

1. Agricultural contexts and technology context
2. Efficiency and productivity: concepts or judgments?
- 3. Technologies for everyone**
4. Technology to protect the environment





3rd message

Irrigation technology is neutral



01/20/2010





4th message

**R&D organizations have the responsibility of
producing technology for small-holders
as well**



dégradation

new scheme

maintenance insufficient

system deterioration

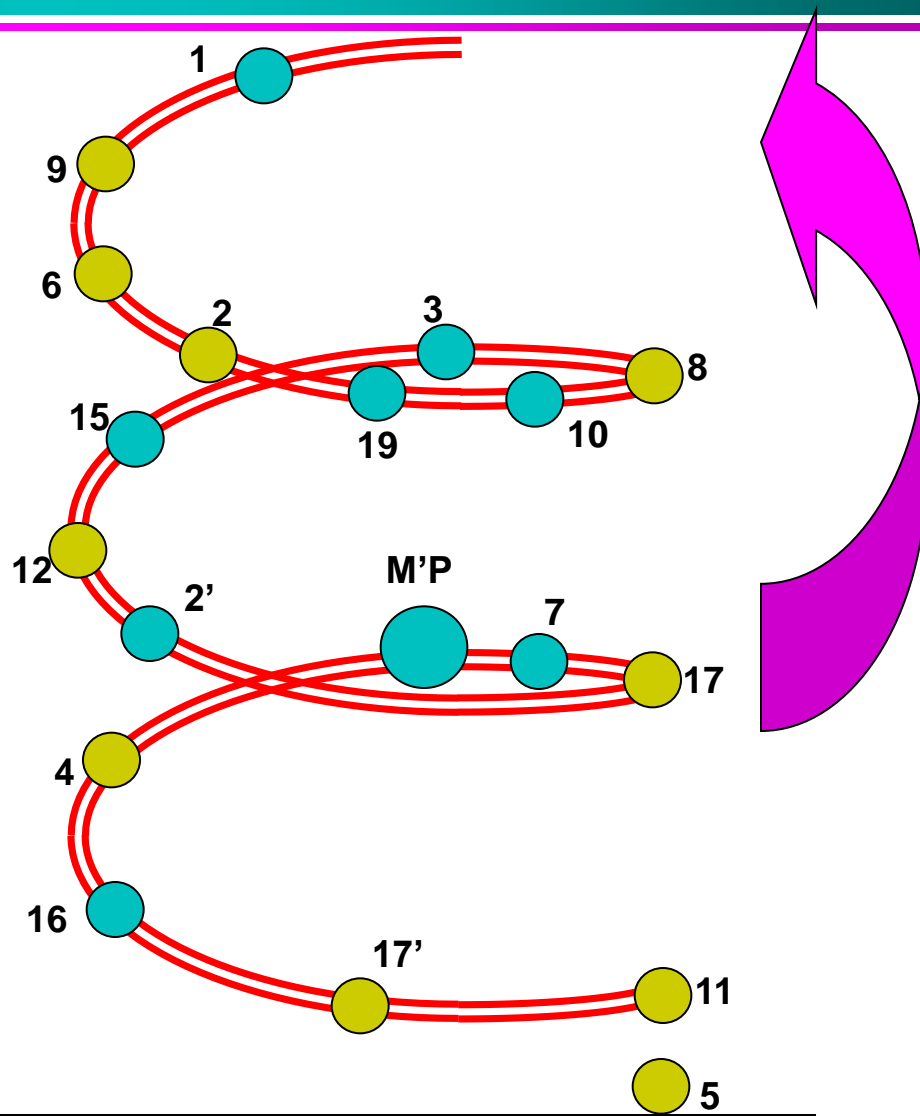
operation more difficult

weak service

farmers unsatisfied

poorer maintenance

•
•
•
•
•
•
•
•



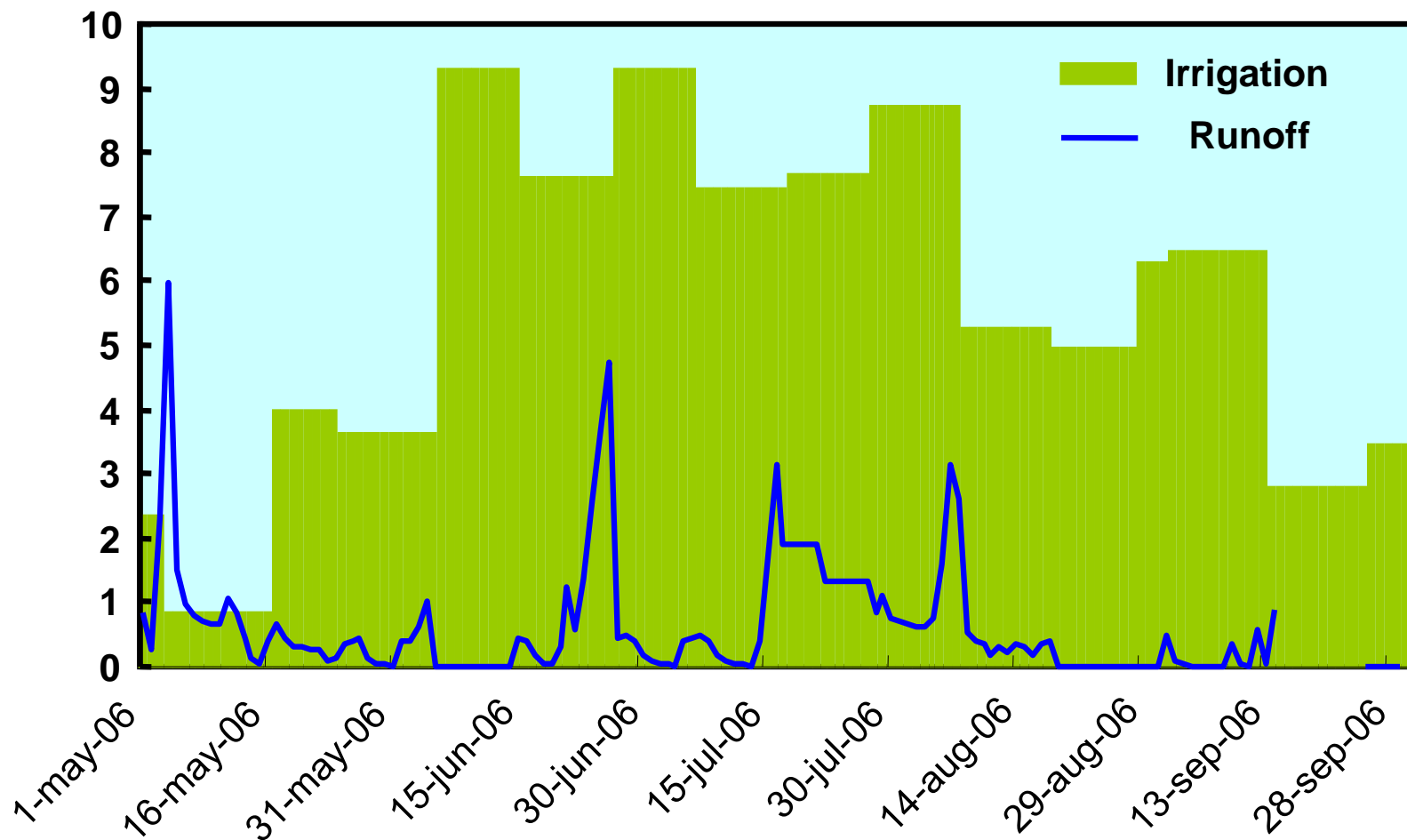
Outline

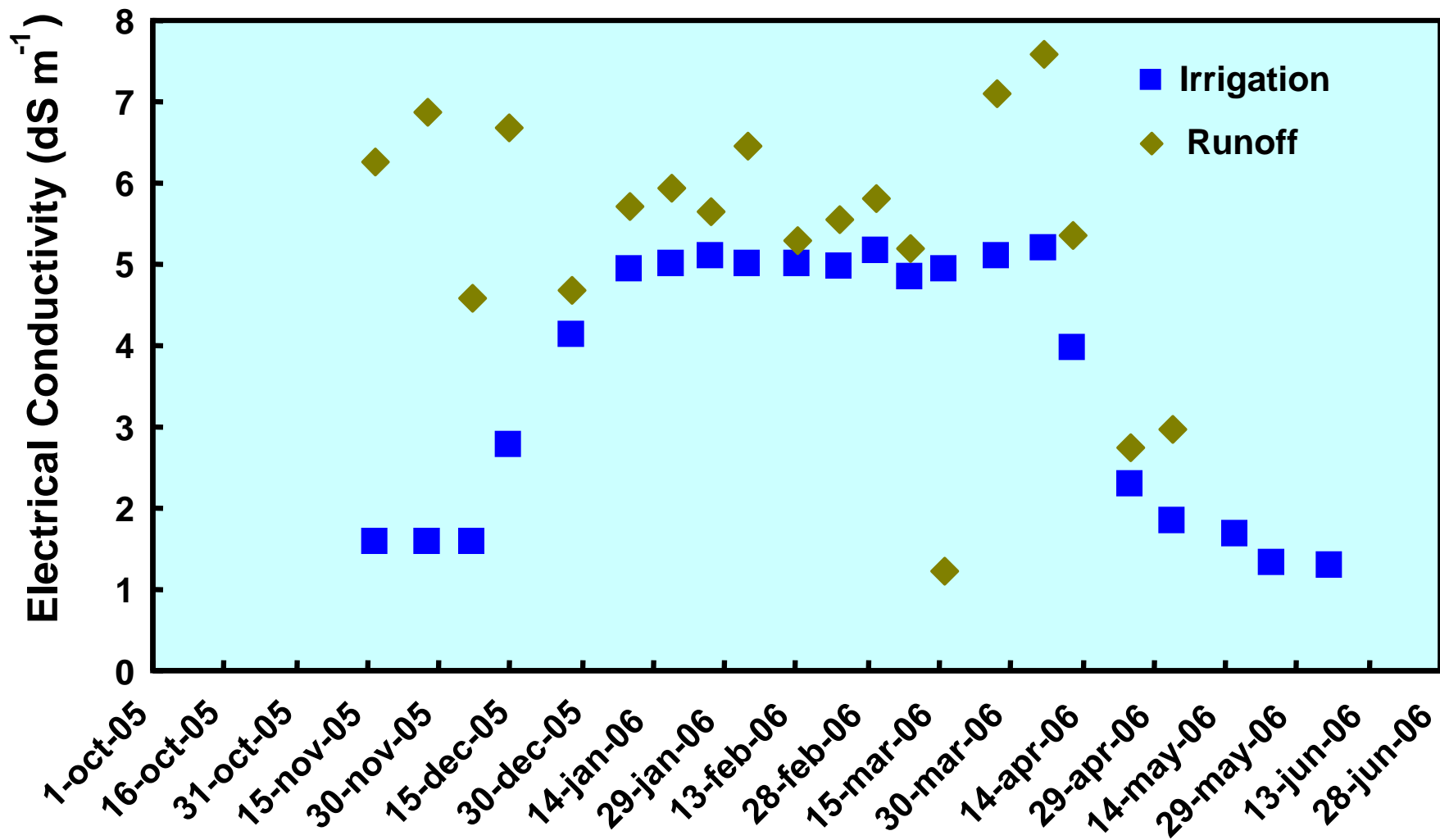
1. Agricultural contexts and technology context
2. Efficiency and productivity: concepts or judgments?
3. Technologies for everyone
4. **Technology to protect the environment**

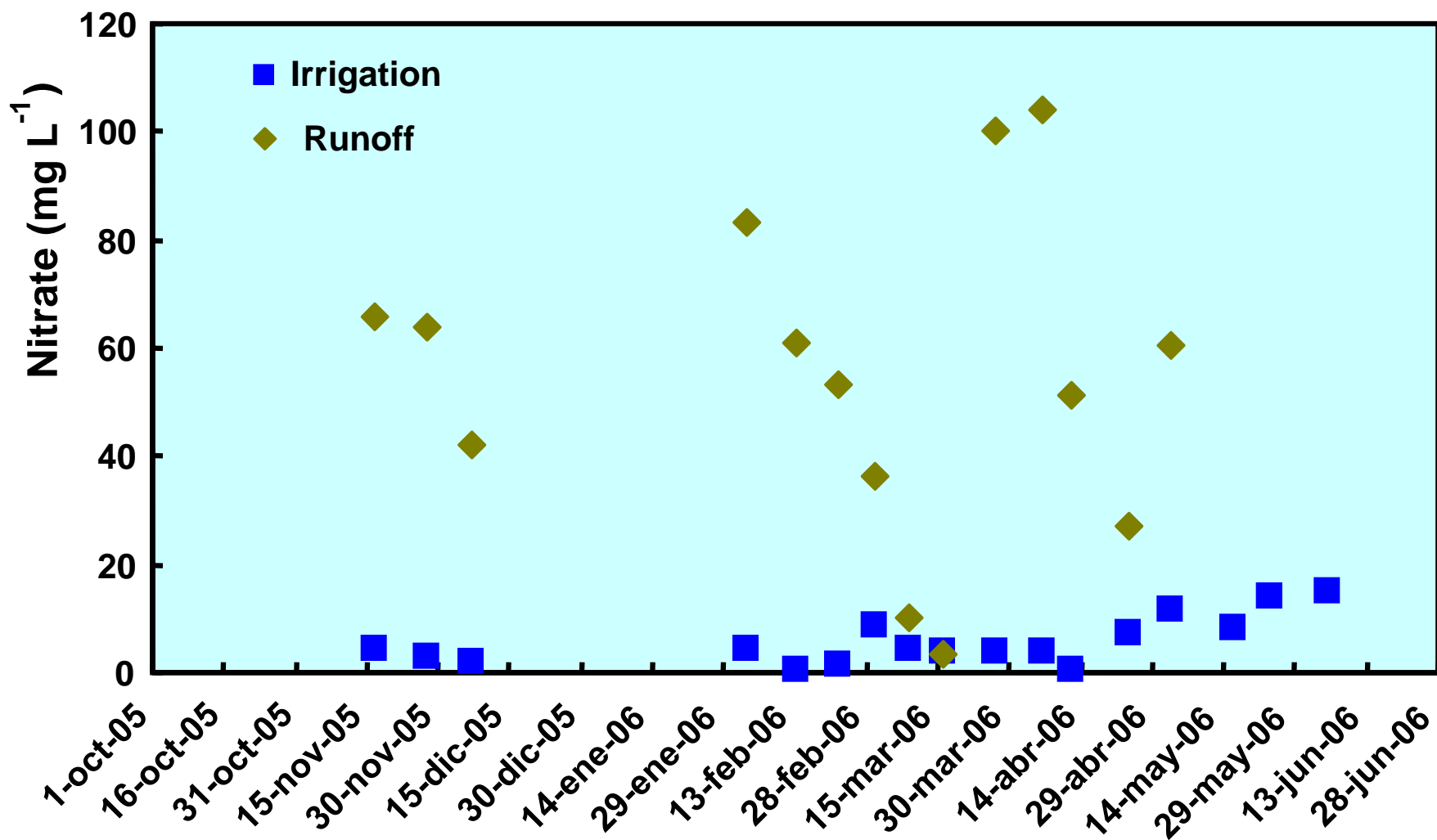




Irrigation, Runoff ($\text{Dm}^3 \text{ day}^{-1}$)









Obrigado!

Luciano Mateos

Instituto de Agricultura Sostenible

CSIC

Córdoba, ESPANHA

ag1mainl@uco.es