

*Fortaleza, 28-11 May 2012*

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## **Irrigation Science and Technology to the Service of Farmers and Agriculture**

### ***A Personal View of WINOTEC-2012***

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# Outline

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- 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

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

Google earth

Alt. ojo 15.33 km





# 1<sup>st</sup> message

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

# Outline

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## 2<sup>nd</sup> message

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

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

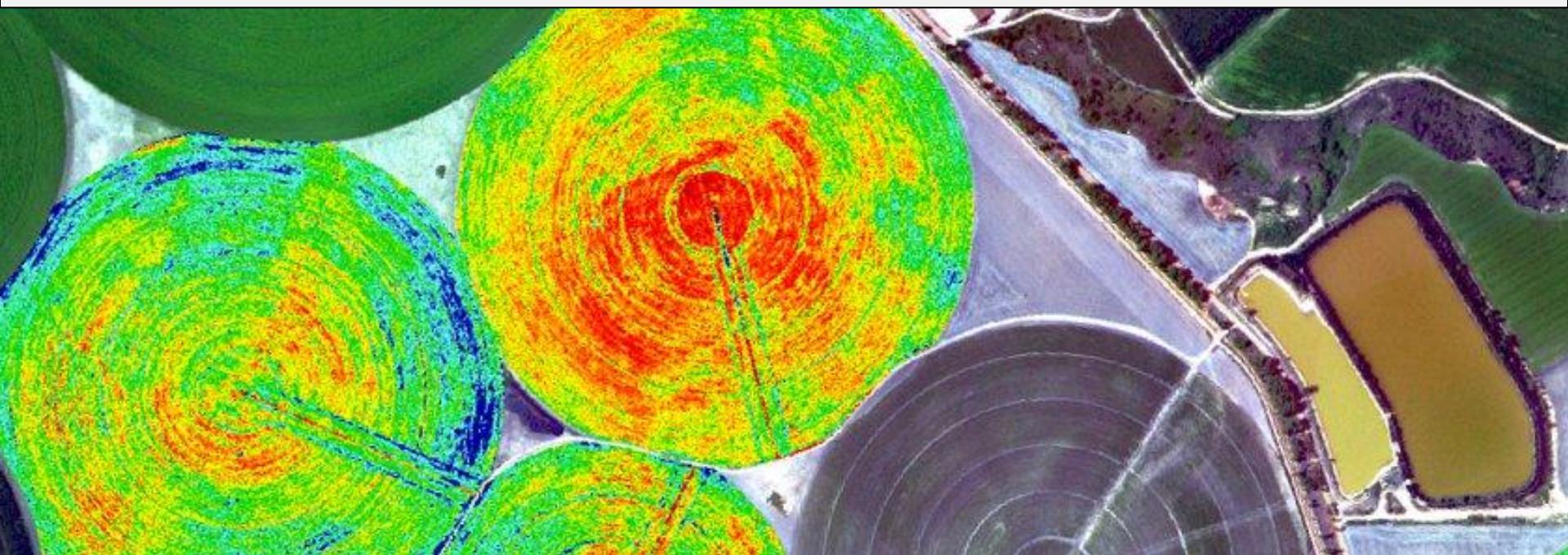




# Outline

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1. Agricultural contexts and technology context
2. Efficiency and productivity: concepts or judgments?
3. **Technologies for everyone**
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# 3<sup>rd</sup> message

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**Irrigation technology is neutral**



01/20/2010





# 4<sup>th</sup> message

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



dégradation

**new scheme**

**maintenance insufficient**

**system deterioration**

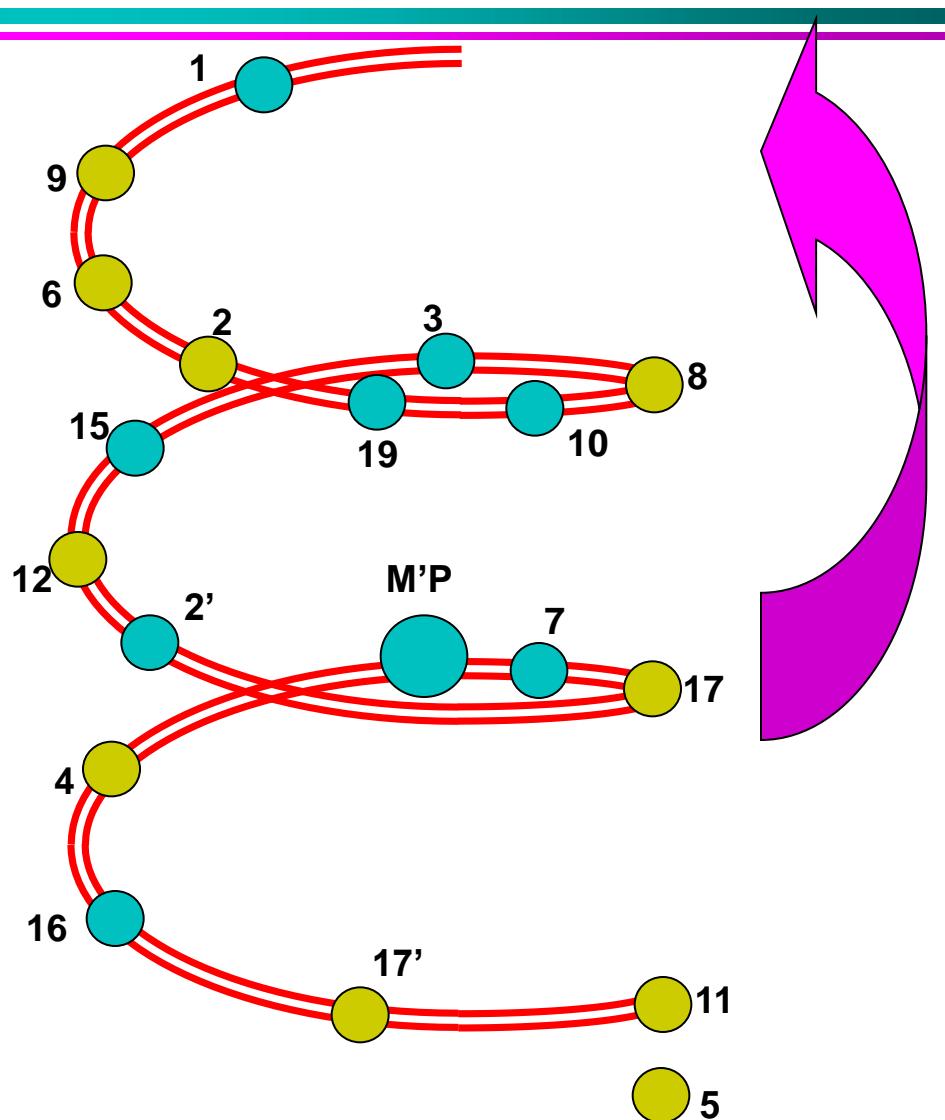
**operation more difficult**

**weak service**

**farmers unsatisfied**

**poorer maintenance**

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# Outline

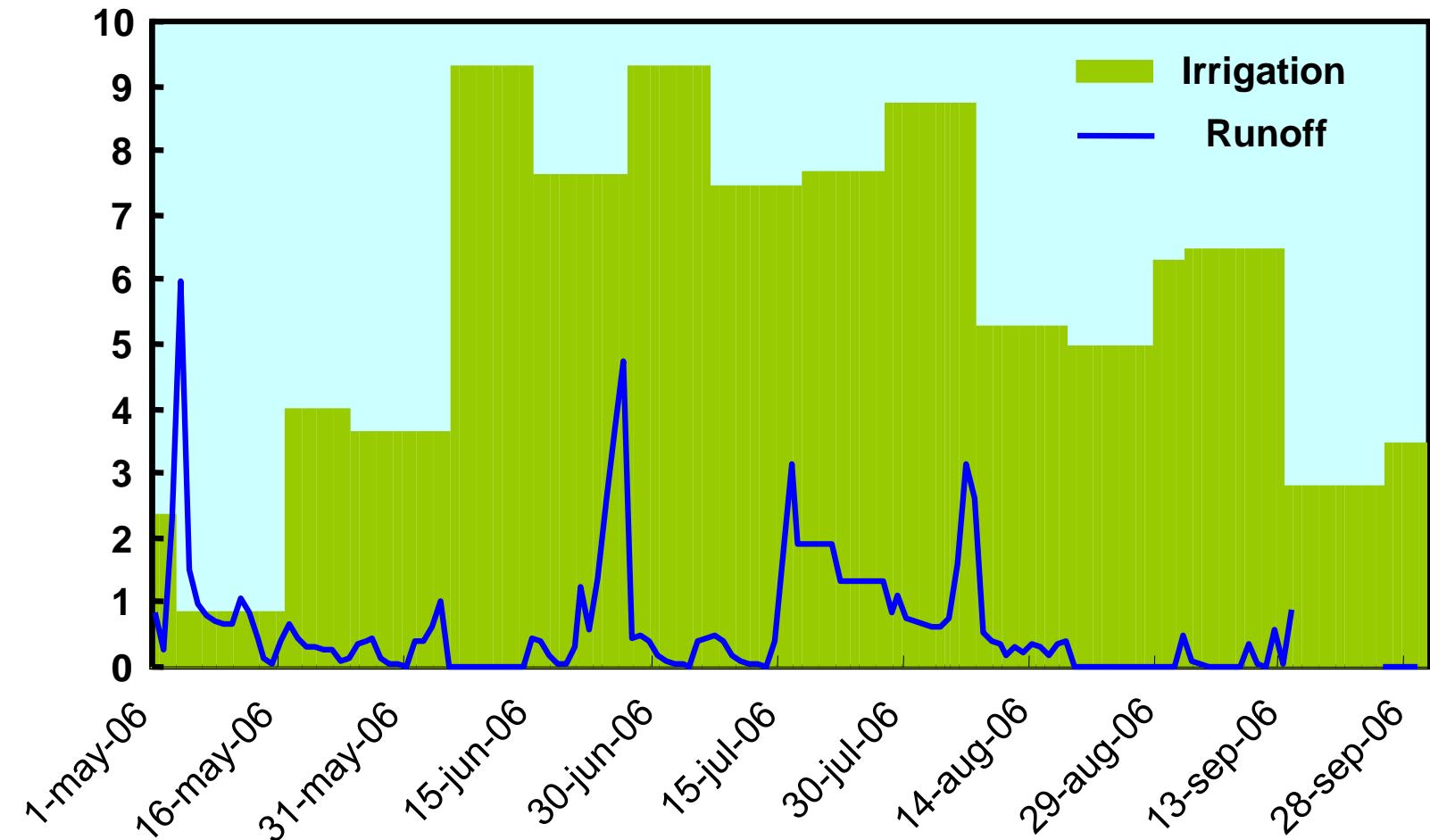
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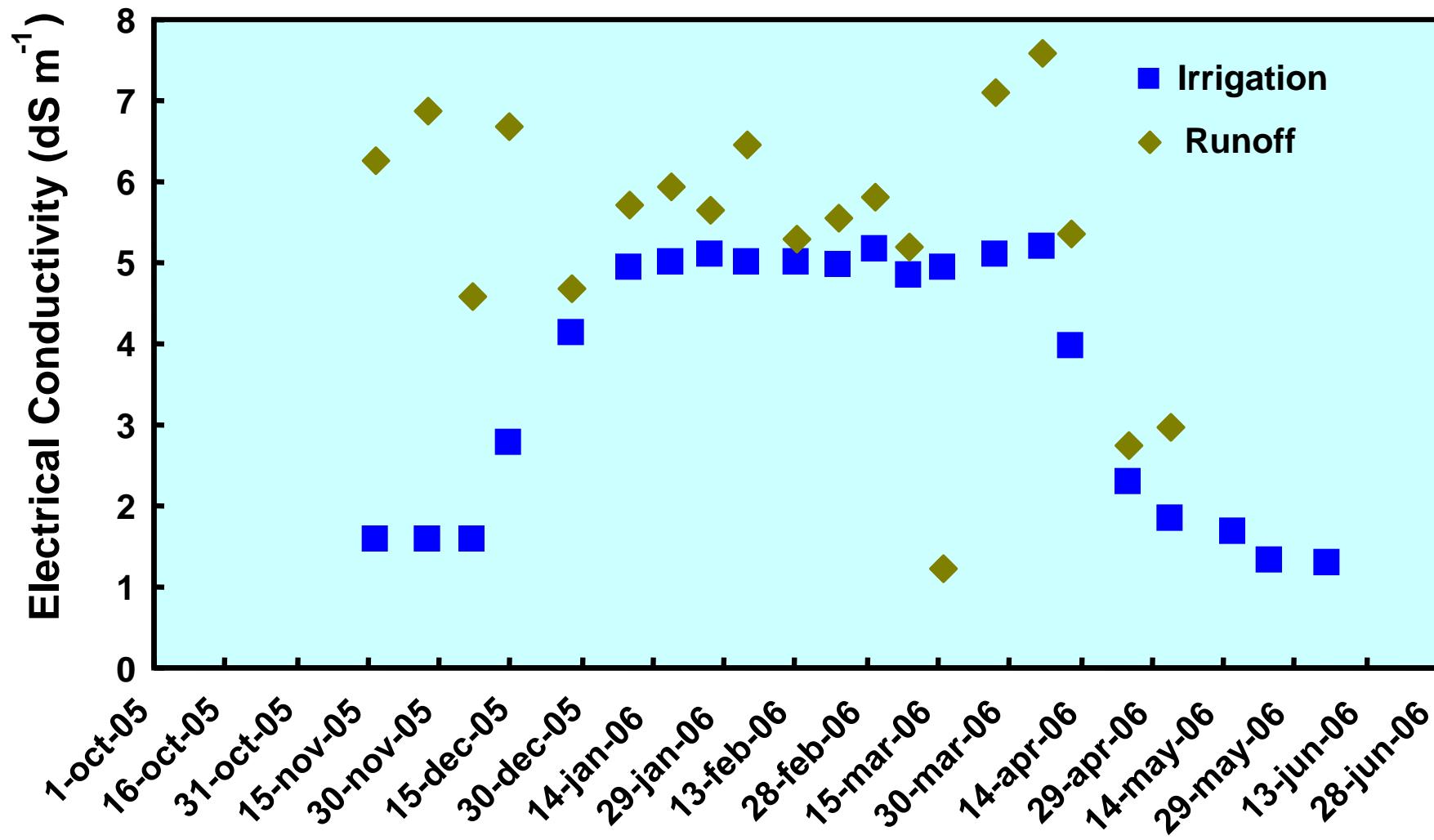
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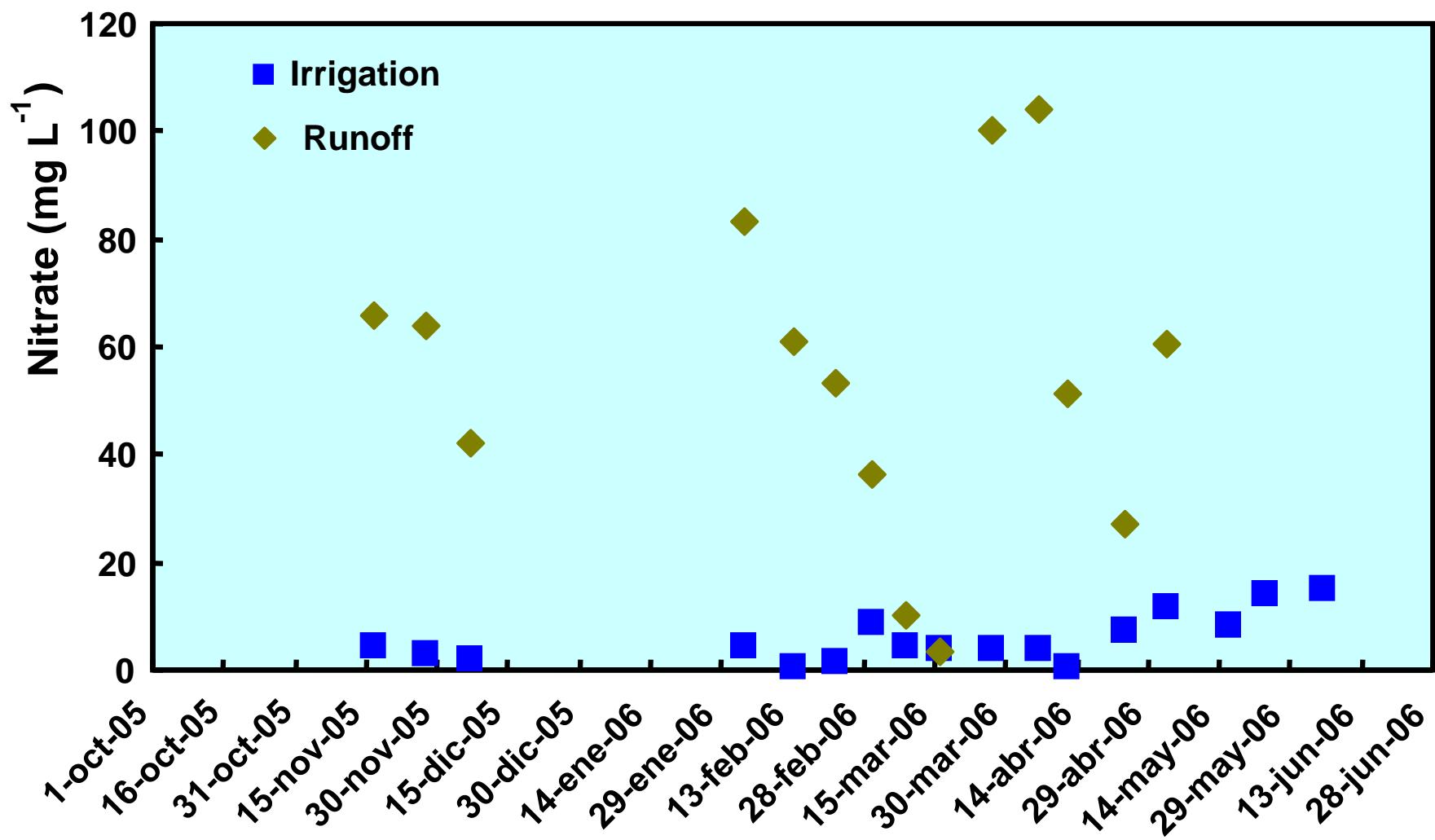




Irrigation, Runoff ( $Dm^3 day^{-1}$ )









# Obrigado!

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