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Requirements  
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## Requirements

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*Lecture 9:*

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Program (WISP  
2012) – Part 1 Soil  
Water Balance  
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Chapter 4 of  
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Water  
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officer Preparation*

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Water Data:~~

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the water  
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2012) - Part 2 -  
Model Setup and  
Operation Part 4  
How to Schedule  
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Scheduling and  
Crop Water Use of  
Corn 2019.03.14  
*Part 3 How to  
Schedule*

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Scheduling*

*ET-based irrigation  
scheduling and  
management  
considerations  
under drought  
Using IrriSAT for  
irrigation  
scheduling Energy  
savings from  
irrigation*



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IRRIGATION  
Effect On Water  
METHODS  
Requirements  
Watering Systems

101: Natural Water  
Sources Water Is  
Life **11/29/2018-**  
**Lecture #15**

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**Scheduling** *water*  
*balance* Soil Water  
Balance Changes -  
CSCAP Scheduling  
Of Irrigation **Water**

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## **Conservation in Oregon - Farmers Irrigation District Requirements**

---

Farmer invents  
underground wick  
irrigation saving  
water and time for  
dryland farmers  
*Using catch cups to  
check the  
precipitation rate  
of an irrigation  
system*

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~~scheduling criteria~~  
~~Water Balance~~  
~~Irrigation~~

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**Scheduling:**

**Plant Available**

**Water**

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Irrigation

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Effect On Water  
Requirements  
for Improved Water  
Management and  
Water Use  
Efficiency

(Webinar) Irrigation

Scheduling for

Peanuts- Wes

Porter *Think About*

*Water Instead -*

*Irrigation*

*Scheduling*

**Irrigation**

**scheduling**

**Irrigation**

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## **Scheduling Effect On Water**

Irrigation  
Requirements

Methods Affect  
Water Use EVAPOT  
TRANSPIRATION-  
BASED METHODS.

The theory behind  
irrigation  
scheduling based  
on  
evapotranspiration  
relies on the...

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FAWN AND CITRUS  
IRRIGATION APP.

Both the FAWN  
website and the  
UF/IFAS citrus app  
are user-friendly  
tools to schedule...  
SOIL-BASED ...

**Irrigation  
Scheduling  
Methods Affect  
Water Use -  
Citrus ...**

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The goal in scheduling irrigation is to determine the timing of irrigation, the duration of irrigation, and the amounts of water applied based upon crop needs, soil water storage capacity and climatic conditions, all leading to

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efficient water use.

[courtesy of  
Effect On Water  
Agricultural Water  
Requirements  
Conservation

Clearinghouse]

## **Irrigation Scheduling**

Irrigation

scheduling is the  
process used by  
irrigation system  
managers to  
determine the



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correct frequency and duration of watering. The following factors may be taken into consideration:

Precipitation rate of the irrigation equipment – how quickly the water is applied, often expressed in inches or mm per hour.

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## Scheduling

### **Irrigation scheduling - Wikipedia**

Having an effective irrigation schedule established for the upcoming season is not only useful to help manage water and pumping costs, but also to help reduce disease, fertilizer use,

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runoff, and erosion.  
An effective  
schedule  
contributes to  
healthier turf,  
greater playability,  
and more  
importantly,  
increased safety.

## **Effective Irrigation Scheduling | Hunter**

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## **Industries**

Optimization of irrigation scheduling and nitrogen rate of maize to improve yield and water use efficiency under irrigated agriculture. Author: Ashebir Haile Tefera. Subject Area: Life Sciences.

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## **Optimization of irrigation scheduling and nitrogen rate of**

...  
lasj

Effect of Optimal  
Irrigation  
Scheduling on Yield  
and Water  
Productivity of  
Haricot Bean  
(Phaseolus vulgaris  
L.) at Melkassa,  
Central Rift Valley

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of Ethiopia. Ketema  
Tezera, Gobena  
Dirirsa, Tilahun  
Hordofa, Tatek  
Wendimu, Abera  
Tesfaye, Gebeyehu  
Ashame, Tigist  
Worku, Aynalem  
Gurms

**African Journal of  
Agricultural  
Research - effect  
of ...**

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Scheduling of winter wheat for two irrigation and scheduling methods in Uzbekistan.

Uzbekistan

National Cotton

Growing Research

Institute, poster

presentation. Kang,

S., Zhang, L., Ling,

Y., Hu, X., Cai, H

and Gu, B. (2002).

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Effects of limited irrigation on yield and water use efficiency of winter wheat in the loess plateau of China.

## **Irrigation Scheduling through Drip/Surface Method: A ...**

The checkbook method of



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Scheduling enables irrigation farm managers to monitor a field's daily soil water balance (in terms of inches of soil water deficit), which can be used to plan the next irrigation.

## **Irrigation scheduling**

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## **Scheduling checkbook method**

### **SCHEDULING USING THE WATER BALANCE METHOD**

Irrigation can be scheduled using a variety of different methods based on observations or measurements of plants, soil, the weather or a combination of

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these. All methods aim to determine when to irrigate to avoid water stress (Figure D9-7) and how much water to apply to refill the soil.

## **Chapter D9. Irrigation scheduling**

Irrigation  
scheduling is one

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of the factors that influence the agronomic and economic viability of small farms. It is important for both water savings and improved crop yields.

## **CHAPTER 6: Irrigation scheduling**

### Irrigation

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Scheduling is the process by which an irrigator determines the timing and quantity of water to be applied to the crop or pasture. The challenge is to estimate crop water requirements for different growth stages and climatic conditions.

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Scheduling  
**Irrigation  
management |  
Irrigation | Water  
| Farm ...**

The irrigation schedule indicates how much irrigation water has to be given to the crop, and how often or when this water is given. How much and how

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often water has to be given depends on the irrigation water need of the crop. How to determine the irrigation water need has been discussed in Volume 3. The irrigation water need is

**Irrigation Water**

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## **Scheduling:**

### **Irrigation**

### **Scheduling**

Irrigation

scheduling and programming are very effective tools for efficient water use in a plant factory with artificial lighting (PFAL). In order to confirm optimal irrigation schemes



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for the production of cucumber scions and rootstocks in a PFAL, in this study, four different start points of irrigation were applied by measuring the weight of the plug tray to compare the growth of cucumber ...

**How different**

*Page 33/43*

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## **Irrigation regimes affect growth of grafted ...**

Irrigation scheduling is the decision of when and how much water to apply to a field. Its purpose is to maximize irrigation efficiencies by applying the exact

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Requirements

amount of water  
needed to  
replenish the soil  
moisture to the  
desired level.

Irrigation  
scheduling saves  
water and energy.

## **7 Advantages of Irrigation Scheduling - 1001 Artificial Plants**

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minimal or no effect on yield. Excessive irrigation can increase rot and delay fruit maturation. #Apply enough water to maintain canopy during irrigation stage four. Avoid excessive growth or premature defoliation. Table 17.2 Vine water

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use (drip irrigation  
schedule) for a  
small canopy  
vineyard or one  
using a single-wire  
trellis system in the  
San

## **Water Management and Irrigation Scheduling**

Optimal irrigation  
scheduling could

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Requirements

lead to higher water use efficiency, an objective of very high importance nowadays.

Adequate supply of water and nutrients results in higher water and nutrient use efficiency, better production control, and avoidance of stress

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Situations (Raviv and Blom, 2001). Irrigation control involves determination of both timing and quantity of each watering event.

## **Effect of Irrigation Scheduling on Gerbera Flower Yield ...**

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The results show that the wetting front detector saved 16% of irrigation water compared to FP, which in turn led to 16% labour saving to irrigate pepper as compared to FP. Yield and water productivity of pepper were not significantly



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affected by the  
irrigation regimes.

## **The use of the wetting front detector as an irrigation ...**

Principles of  
Irrigation

Scheduling

Scheduling

irrigation is

attempting to

apply water to

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potatoes at the appropriate amount for a specific stage in the plants development and growth. The potato plant's use of water is primarily for transpiration and tuber production and, therefore, irrigation is most important

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from emergence to  
vine senescence.

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