

# IRRIGATION SCHEDULING IN FLOWER CROPS



*Lex McMullin*

BAppSc(HortTech), DiplIrr, CNP

67 Roys Rd  
PALMWOODS QLD 4555  
t. 0409 263 572

e. [ldmcmullin@hotmail.net.au](mailto:ldmcmullin@hotmail.net.au)

The background of the slide is a light gray gradient with several realistic water droplets of various sizes scattered across it. The droplets have highlights and shadows, giving them a three-dimensional appearance. The text is centered horizontally and positioned in the upper half of the slide.

# IRRIGATION SCHEDULING

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***HOW OFTEN AND HOW MUCH WATER IS APPLIED TO A CROP***



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# **FACTORS AFFECTING IRRIGATION SCHEDULING**

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# **FACTORS AFFECTING IRRIGATION SCHEDULING**

**WEATHER CONDITIONS – EVAPORATION & RAINFALL**

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# FACTORS AFFECTING IRRIGATION SCHEDULING

WEATHER CONDITIONS – EVAPORATION & RAINFALL

CROP FACTORS/CROP COEFFICIENTS

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# FACTORS AFFECTING IRRIGATION SCHEDULING

WEATHER CONDITIONS – EVAPORATION & RAINFALL

CROP FACTORS/CROP COEFFICIENTS

SOIL TYPE/ SUBSTRATE CHARACTERISTICS

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WEATHER CONDITIONS – EVAPORATION & RAINFALL

CROP FACTORS/CROP COEFFICIENTS

SOIL TYPE/ SUBSTRATE CHARACTERISTICS

IRRIGATION SYSTEM FACTORS



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# FACTORS AFFECTING IRRIGATION SCHEDULING

WEATHER CONDITIONS – EVAPORATION & RAINFALL

CROP FACTORS/CROP COEFFICIENTS

SOIL TYPE/ SUBSTRATE CHARACTERISTICS

IRRIGATION SYSTEM FACTORS

SCHEDULING TECHNIQUES – PULSING

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WEATHER CONDITIONS – EVAPORATION & RAINFALL

CROP FACTORS/CROP COEFFICIENTS

SOIL TYPE/ SUBSTRATE CHARACTERISTICS

IRRIGATION SYSTEM FACTORS

SCHEDULING TECHNIQUES – PULSING

SCHEDULING TOOLS

# FACTORS AFFECTING IRRIGATION SCHEDULING

WEATHER CONDITIONS – EVAPORATION & RAINFALL

CROP FACTORS/CROP COEFFICIENTS

SOIL TYPE/ SUBSTRATE CHARACTERISTICS

IRRIGATION SYSTEM FACTORS

SCHEDULING TECHNIQUES – PULSING

SCHEDULING TOOLS

OTHER FACTORS

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# WEATHER CONDITIONS

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# **WEATHER CONDITIONS**

## **EVAPORATION/EVAPOTRANSPIRATION**

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# **WEATHER CONDITIONS**

**EVAPORATION/EVAPOTRANSPIRATION**

***COMBINED EFFECT OF:***

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# **WEATHER CONDITIONS**

**EVAPORATION/EVAPOTRANSPIRATION**

***COMBINED EFFECT OF:***

**WIND SPEED**

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# WEATHER CONDITIONS

## EVAPORATION/EVAPOTRANSPIRATION

***COMBINED EFFECT OF:***

WIND SPEED

RELATIVE HUMIDITY



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# WEATHER CONDITIONS

## EVAPORATION/EVAPOTRANSPIRATION

### *COMBINED EFFECT OF:*

WIND SPEED

RELATIVE HUMIDITY

TEMPERATURE

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# WEATHER CONDITIONS

## EVAPORATION/EVAPOTRANSPIRATION

### *COMBINED EFFECT OF:*

WIND SPEED

RELATIVE HUMIDITY

TEMPERATURE

SOLAR RADIATION

The background features a light gray gradient with a subtle sunburst pattern emanating from the center. Scattered throughout are various water droplets of different sizes, some appearing as simple circles and others as more complex, irregular shapes with highlights and shadows, suggesting a reflective surface.

# EVAPORATION

# EVAPORATION

MEASURED USING AN EVAPORATION PAN



The background of the slide is a light gray gradient with several realistic water droplets of various sizes scattered across it. The droplets have highlights and shadows, giving them a three-dimensional appearance. The word "EVAPOTRANSPIRATION" is centered in the upper half of the image.

# EVAPOTRANSPIRATION

The background of the slide is a light gray gradient with several realistic water droplets of various sizes scattered across it. The droplets have highlights and shadows, giving them a three-dimensional appearance. The largest droplet is in the top left, and another large one is in the bottom right. There are also many smaller droplets of different shapes and sizes.

# EVAPOTRANSPIRATION

CALCULATED FROM MEASURED WEATHER DATA

# EVAPOTRANSPIRATION

CALCULATED FROM MEASURED WEATHER DATA

$$ET_o = \frac{0.408\Delta (R_n - G) + \gamma \frac{900}{T + 273} u_2 (e_s - e_a)}{\Delta + \gamma(1 + 0.34 u_2)}$$

The background of the slide is a light gray gradient. It is decorated with numerous water droplets of various sizes and shapes, scattered across the top and bottom edges. The droplets have a realistic, glossy appearance with highlights and shadows, suggesting they are on a smooth surface.

**WHERE EVAPORATION/EVAPOTRANSPIRATION DATA COMES FROM**



# WHERE EVAPORATION/EVAPOTRANSPIRATION DATA COMES FROM



**FROM ONSITE WEATHER STATION**

# WHERE EVAPORATION/EVAPOTRANSPIRATION DATA COMES FROM



**FROM ONSITE WEATHER STATION**

**OR**

**FROM BOM WEBSITE**

recent Evapotranspiration

These maps will allow you to view reference evapotranspiration (ET<sub>0</sub>) derived from automatic weather station records and satellite measurements. Starting data is available for the location first in the table for each date.

Evapotranspiration Calculations

Summary for: September 2018 daily calculations

Date	Humidity	Rain (mm)	Pan Evaporation (mm)	Max Temp (°C)	Min Temp (°C)	Max Rain (mm)	Min Rain (mm)	Average Wind Speed (km/h)	Area Irrigated (Hectares)
21/08/2018	54.0	0.0	24.7	19.2	91	0	0	3.02	10.28
22/08/2018	45.0	0.0	29.0	19.0	94	0	0	5.81	10.28
23/08/2018	45.0	10.0	20.4	19.7	90	40	4.20	20.02	10.28
24/08/2018	48.0	0.0	20.7	19.3	91	20	3.80	17.00	10.28
25/08/2018	47.0	0.0	24.0	19.4	94	41	2.20	16.00	10.28
26/08/2018	52.0	0.0	24.3	19.2	90	24	5.70	21.00	10.28
27/08/2018	50.0	0.0	22.0	19.1	91	0	5.50	19.00	10.28
28/08/2018	40.0	0.0	24.0	19.4	97	0	3.00	10.00	10.28
29/08/2018	57.0	0.0	24.7	19.5	97	0	4.84	10.00	10.28
30/08/2018	58.0	0.0	25.0	19.2	90	0	5.87	10.00	10.28
31/08/2018	47.0	12.0	20.0	19.9	97	80	2.97	17.00	10.28
01/09/2018	50.0	0.0	20.0	19.2	90	20	2.34	10.00	10.28
02/09/2018	54.0	0.0	20.0	19.4	90	0	2.00	10.00	10.28
03/09/2018	47.0	0.0	20.7	19.0	90	0	4.34	10.00	10.28
04/09/2018	55.0	0.0	20.7	19.1	90	0	5.70	10.00	10.28
05/09/2018	46.0	0.0	20.0	19.0	90	0	3.74	10.00	10.28
06/09/2018	47.0	0.0	20.2	19.0	90	40	5.70	20.47	10.28
07/09/2018	50.0	0.0	20.0	20.0	94	0	6.00	7.00	10.28
08/09/2018	50.0	0.0	20.2	19.7	94	0	2.70	11.00	10.28
09/09/2018	57.0	0.0	20.7	19.1	90	0	3.70	10.00	10.28
10/09/2018	57.0	0.0	20.0	19.0	90	0	5.70	9.00	10.28
11/09/2018	46.0	0.0	20.7	19.2	90	20	3.07	23.00	10.28
12/09/2018	50.0	0.0	20.4	19.4	90	0	3.34	10.00	10.28
13/09/2018	50.0	0.0	17.0	19.2	90	0	3.00	10.00	10.28
14/09/2018	50.0	0.0	20.4	19.7	97	0	2.97	10.00	10.28
15/09/2018	55.0	14.0	20.7	19.4	94	20	3.00	14.28	10.28
16/09/2018	48.0	0.0	20.7	19.1	90	0	3.60	10.00	10.28
17/09/2018	45.0	0.0	20.1	19.7	74	0	4.80	14.40	10.28
18/09/2018	50.0	0.0	20.0	19.1	94	0	4.00	4.00	10.28
02/09/2018	54.0	12.0	20.2	19.4	90	0	4.00	24.40	10.28
Total	1968	16.0							

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**CALCULATE THE AMOUNT OF WATER REQUIRED**

The background of the slide is a light gray gradient with several realistic water droplets of various sizes scattered across it. The droplets have highlights and shadows, giving them a three-dimensional appearance.

**CALCULATE THE AMOUNT OF WATER REQUIRED**

**CROP FACTOR – FROM PAN EVAPORATION**

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# **CALCULATE THE AMOUNT OF WATER REQUIRED**

**CROP FACTOR – FROM PAN EVAPORATION**

**CROP COEFFICIENTS – FROM EVAPOTRANSPIRATION**

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# **CALCULATE THE AMOUNT OF WATER REQUIRED**

**CROP FACTOR – FROM PAN EVAPORATION**

**CROP COEFFICIENTS – FROM EVAPOTRANSPIRATION**

APPROXIMATES CROP WATER USE COMPARED TO EVAPORATION RATE

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APPROXIMATES CROP WATER USE COMPARED TO EVAPORATION RATE

CROP FACTOR OF 0.8 = CROP USES 80% OF THE EVAPORATION

# CALCULATE THE AMOUNT OF WATER REQUIRED

## CROP FACTOR – FROM PAN EVAPORATION

## CROP COEFFICIENTS – FROM EVAPOTRANSPIRATION

APPROXIMATES CROP WATER USE COMPARED TO EVAPORATION RATE

CROP FACTOR OF 0.8 = CROP USES 80% OF THE EVAPORATION

Evaporation	5 mm/day
Crop factor	0.8
Crop water use	4 mm/day



# CALCULATE THE AMOUNT OF WATER REQUIRED

## CROP FACTOR – FROM PAN EVAPORATION

## CROP COEFFICIENTS – FROM EVAPOTRANSPIRATION

APPROXIMATES CROP WATER USE COMPARED TO EVAPORATION RATE

CROP FACTOR OF 0.8 = CROP USES 80% OF THE EVAPORATION

Evaporation	5 mm/day
Crop factor	0.8
Crop water use	4 mm/day

**SHOULD ONLY BE USED AS A GUIDE**

The image features a light gray background with a subtle radial gradient. Scattered across the surface are numerous water droplets of various sizes and shapes. Some are large and prominent, while others are small and delicate. The droplets have a realistic, glossy appearance with highlights and shadows, giving them a three-dimensional feel. The word "RAINFALL" is centered in the upper half of the image in a bold, black, sans-serif font.

**RAINFALL**

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# RAINFALL

NEEDS TO BE MEASURED

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# RAINFALL

NEEDS TO BE MEASURED

REQUIRED IF USING INDIRECT MEASURING SCHEDULING TOOLS

# SOIL/ SUBSTRATE CHARACTERISTICS



# SOIL/ SUBSTRATE CHARACTERISTICS

**SOIL HAS DIFFERENT PROPERTIES TO SUBSTRATES**



# SOIL/ SUBSTRATE CHARACTERISTICS

**SOIL HAS DIFFERENT PROPERTIES TO SUBSTRATES**

***LIMITATIONS***



# SOIL/ SUBSTRATE CHARACTERISTICS

**SOIL HAS DIFFERENT PROPERTIES TO SUBSTRATES**

***LIMITATIONS***

**INFILTRATION RATE OF SOIL**





# SOIL/ SUBSTRATE CHARACTERISTICS

**SOIL HAS DIFFERENT PROPERTIES TO SUBSTRATES**

## *LIMITATIONS*

INFILTRATION RATE OF SOIL

ABSORPTION RATE OF SUBSTRATES



# SOIL/ SUBSTRATE CHARACTERISTICS

**SOIL HAS DIFFERENT PROPERTIES TO SUBSTRATES**

## ***LIMITATIONS***

INFILTRATION RATE OF SOIL

ABSORPTION RATE OF SUBSTRATES

MOISTURE HOLDING



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# SOIL INFILTRATION RATES

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# SOIL INFILTRATION RATES

**WATER MOVING FROM THE SOIL SURFACE INTO THE SOIL PROFILE**

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# SOIL INFILTRATION RATES

**WATER MOVING FROM THE SOIL SURFACE INTO THE SOIL PROFILE**

**SOIL TEXTURE – SANDS HIGHER THAN CLAYS**

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# **SOIL INFILTRATION RATES**

**WATER MOVING FROM THE SOIL SURFACE INTO THE SOIL PROFILE**

**SOIL TEXTURE – SANDS HIGHER THAN CLAYS**

**SOIL MOISTURE CONTENT – DRIER SOILS HAVE HIGHER INFILTRATION RATES**

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# **SOIL INFILTRATION RATES**

**WATER MOVING FROM THE SOIL SURFACE INTO THE SOIL PROFILE**

**SOIL TEXTURE – SANDS HIGHER THAN CLAYS**

**SOIL MOISTURE CONTENT – DRIER SOILS HAVE HIGHER INFILTRATION RATES**

**SOIL STRUCTURE – COMPACTED SOILS IMPEDE INFILTRATION**

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# **SOIL INFILTRATION RATES**

**WATER MOVING FROM THE SOIL SURFACE INTO THE SOIL PROFILE**

**SOIL TEXTURE – SANDS HIGHER THAN CLAYS**

**SOIL MOISTURE CONTENT – DRIER SOILS HAVE HIGHER INFILTRATION RATES**

**SOIL STRUCTURE – COMPACTED SOILS IMPEDE INFILTRATION**

**SOIL SURFACE CONDITIONS – MULCHES IMPROVE INFILTRATION**



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# SOIL INFILTRATION RATES

**EXCEEDING INFILTRATION RATE LEADS TO RUNOFF**

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# SOIL INFILTRATION RATES

**EXCEEDING INFILTRATION RATE LEADS TO RUNOFF**

LOSS OF WATER

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# SOIL INFILTRATION RATES

**EXCEEDING INFILTRATION RATE LEADS TO RUNOFF**

LOSS OF WATER

EROSION

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# **SOIL INFILTRATION RATES**

**EXCEEDING INFILTRATION RATE LEADS TO RUNOFF**

**LOSS OF WATER**

**EROSION**

**ENVIRONMENTAL IMPACTS**

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# SOIL INFILTRATION RATE

LOW < 15 mm/hr

MEDIUM 15 TO 50 mm/hr

HIGH > 50 mm/hr

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# SUBSTRATE ABSORPTION RATE

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# SUBSTRATE ABSORPTION RATE

***WATER BEING ABSORBED INTO THE PARTICLES OF SUBSTRATES***

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# SUBSTRATE ABSORPTION RATE

***WATER BEING ABSORBED INTO THE PARTICLES OF SUBSTRATES***

SUBSTRATE COMPONENTS – BARK < COIR



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# SUBSTRATE ABSORPTION RATE

***WATER BEING ABSORBED INTO THE PARTICLES OF SUBSTRATES***

SUBSTRATE COMPONENTS – BARK < COIR

SUBSTRATE MOISTURE CONTENT – DRIED SUBSTRATE MAY BE WATER  
REPELLENT

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# SUBSTRATE ABSORPTION RATE

***WATER BEING ABSORBED INTO THE PARTICLES OF SUBSTRATES***

SUBSTRATE COMPONENTS – BARK < COIR

SUBSTRATE MOISTURE CONTENT – DRIED SUBSTRATE MAY BE WATER  
REPELLENT

PROPERTIES CHANGE OVER TIME

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# SUBSTRATE ABSORPTION RATE

***EXCEEDING ABSORPTION RATES***

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# SUBSTRATE ABSORPTION RATE

***EXCEEDING ABSORPTION RATES***

LOSS OF WATER AS EXCESS DRAINAGE

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# SUBSTRATE ABSORPTION RATE

## ***EXCEEDING ABSORPTION RATES***

LOSS OF WATER AS EXCESS DRAINAGE

INCREASED LEACHING OF NUTRIENTS

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# SUBSTRATE ABSORPTION RATE

## ***EXCEEDING ABSORPTION RATES***

LOSS OF WATER AS EXCESS DRAINAGE

INCREASED LEACHING OF NUTRIENTS

ENVIRONMENTAL IMPACTS

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# SUBSTRATE ABSORPTION RATE

BARK < 15 mm/hr

BARK + WETTING AGENT < 20 mm/hr

COIR < 25 mm/hr

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# MOISTURE HOLDING OF SOIL/ SUBSTRATES





# MOISTURE HOLDING OF SOIL/ SUBSTRATES

**AMOUNT OF WATER HELD IN SOIL/SUBSTRATE**

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# MOISTURE HOLDING OF SOIL/ SUBSTRATES

**AMOUNT OF WATER HELD IN SOIL/SUBSTRATE**

EACH SOIL TYPE/SUBSTRATE IS DIFFERENT

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# MOISTURE HOLDING OF SOIL/ SUBSTRATES

## **AMOUNT OF WATER HELD IN SOIL/SUBSTRATE**

EACH SOIL TYPE/SUBSTRATE IS DIFFERENT  
HOW OFTEN AND HOW MUCH TO APPLY

# IRRIGATION SYSTEM FACTORS



# IRRIGATION SYSTEM FACTORS

MEAN APPLICATION RATE - MAR



# IRRIGATION SYSTEM FACTORS

MEAN APPLICATION RATE - MAR

DISTRIBUTION UNIFORMITY - DU



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# **IRRIGATION SYSTEM FACTORS**

**MEAN APPLICATION RATE – MAR mm/hr**

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# IRRIGATION SYSTEM FACTORS

**MEAN APPLICATION RATE – MAR mm/hr**

*How quickly the water is applied*



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# IRRIGATION SYSTEM FACTORS

**MEAN APPLICATION RATE – MAR mm/hr**

*How quickly the water is applied*

IF EXCEEDS SOIL INFILTRATION RATE RUNOFF OCCURS

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# IRRIGATION SYSTEM FACTORS

**MEAN APPLICATION RATE – MAR mm/hr**

*How quickly the water is applied*

IF EXCEEDS SOIL INFILTRATION RATE RUNOFF OCCURS

IF EXCEEDS SUBSTRATES ABSORPTION RATE EXCESSIVE DRAINAGE  
OCCURS

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# **IRRIGATION SYSTEM FACTORS**

## **DISTRIBUTION UNIFORMITY - % DU**

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# IRRIGATION SYSTEM FACTORS

## **DISTRIBUTION UNIFORMITY - % DU**

***UNIFORMITY OF IRRIGATION ACROSS THE IRRIGATED AREA***

# IRRIGATION SYSTEM FACTORS

## DISTRIBUTION UNIFORMITY - % DU

***UNIFORMITY OF IRRIGATION ACROSS THE IRRIGATED AREA***

<b>% DU</b>	<b>Extra minutes of irrigation per hour of irrigation</b>
70	27
75	20
80	15
85	11
90	7
95	3

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# SCHEDULING TECHNIQUES

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# **SCHEDULING TECHNIQUES**

## **PULSING**

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# SCHEDULING TECHNIQUES

## PULSING

***MULTIPLE SHORT APPLICATIONS TO REDUCE THE VOLUME OF WATER  
APPLIED AT ONE TIME***



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# SCHEDULING TECHNIQUES

## PULSING

***MULTIPLE SHORT APPLICATIONS TO REDUCE THE VOLUME OF WATER  
APPLIED AT ONE TIME***

USEFUL FOR DRIPPERS

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# SCHEDULING TECHNIQUES

## PULSING

***MULTIPLE SHORT APPLICATIONS TO REDUCE THE VOLUME OF WATER  
APPLIED AT ONE TIME***

USEFUL FOR DRIPPERS

MAY HAVE APPLICATIONS FOR SPRINKLERS IN CERTAIN SITUATIONS

# SCHEDULING TOOLS

SHOVEL OR AUGER

DAILY EVAPORATION/ WEB TOOLS

TENSIOMETERS

GYPSUM BLOCKS

CAPACITANCE PROBES

TIME DOMAIN REFLECTOMETRY

RADIOACTIVE REFLECTION

WETTING FRONT DETECTOR

# SCHEDULING TOOLS

## SHOVEL OR AUGER



The background of the slide is a light gray gradient with several realistic water droplets of various sizes scattered across it. The droplets have highlights and shadows, giving them a three-dimensional appearance.

# **SCHEDULING TOOLS**

**SHOVEL OR AUGER**

***ADVANTAGES***



# SCHEDULING TOOLS

## SHOVEL OR AUGER

### *ADVANTAGES*

LOW COST

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# **SCHEDULING TOOLS**

## **SHOVEL OR AUGER**

### ***ADVANTAGES***

**LOW COST**

**ABILITY TO SAMPLE MULTIPLE SITES**

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# **SCHEDULING TOOLS**

**SHOVEL OR AUGER**

***DISADVANTAGES***



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# SCHEDULING TOOLS

**SHOVEL OR AUGER**

***DISADVANTAGES***

**PERSONAL OPINION - SUBJECTIVE**

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# SCHEDULING TOOLS

## SHOVEL OR AUGER

### *DISADVANTAGES*

PERSONAL OPINION - SUBJECTIVE

CAN'T COMPARE PREVIOUS RESULTS

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# SCHEDULING TOOLS

## SHOVEL OR AUGER

### *DISADVANTAGES*

PERSONAL OPINION - SUBJECTIVE

CAN'T COMPARE PREVIOUS RESULTS

CAN'T GET CONTINUOUS RESULTS

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# SCHEDULING TOOLS

## SHOVEL OR AUGER

### *DISADVANTAGES*

PERSONAL OPINION - SUBJECTIVE

CAN'T COMPARE PREVIOUS RESULTS

CAN'T GET CONTINUOUS RESULTS

HARD TO ESTABLISH WATER USE PATTERNS

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# **SCHEDULING TOOLS**

**DAILY EVAPORATION/WEB TOOLS**

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# **SCHEDULING TOOLS**

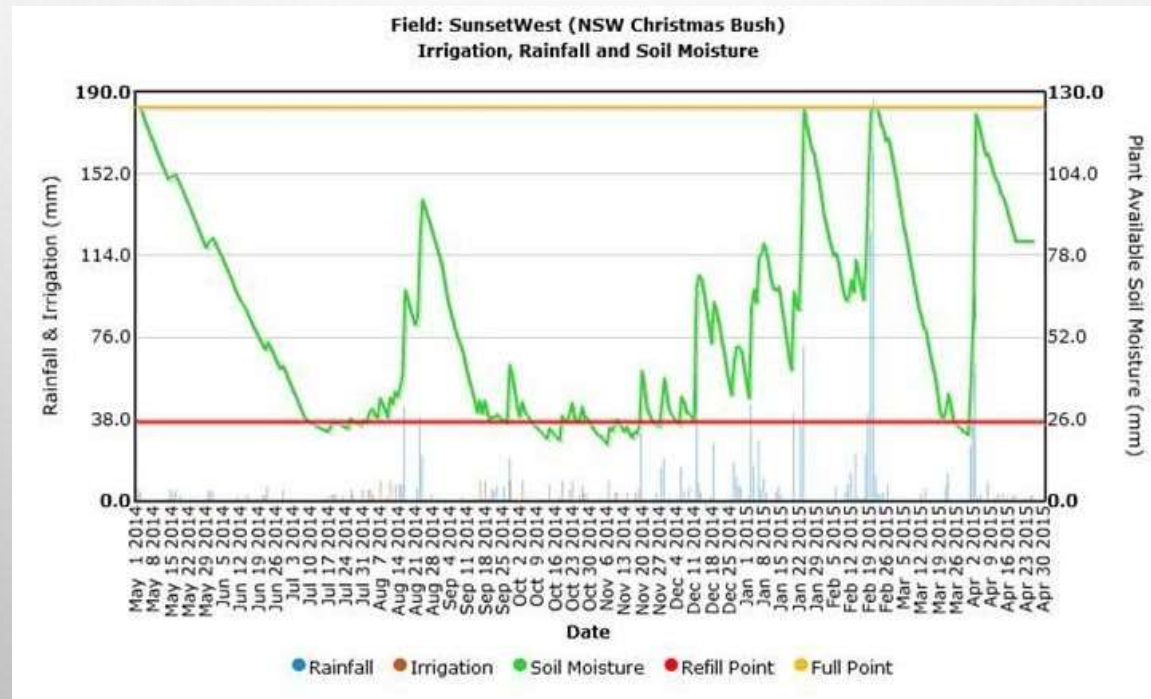
**DAILY EVAPORATION/WEB TOOLS**

***SCHEDULING IRRIGATION DIARY - SID***

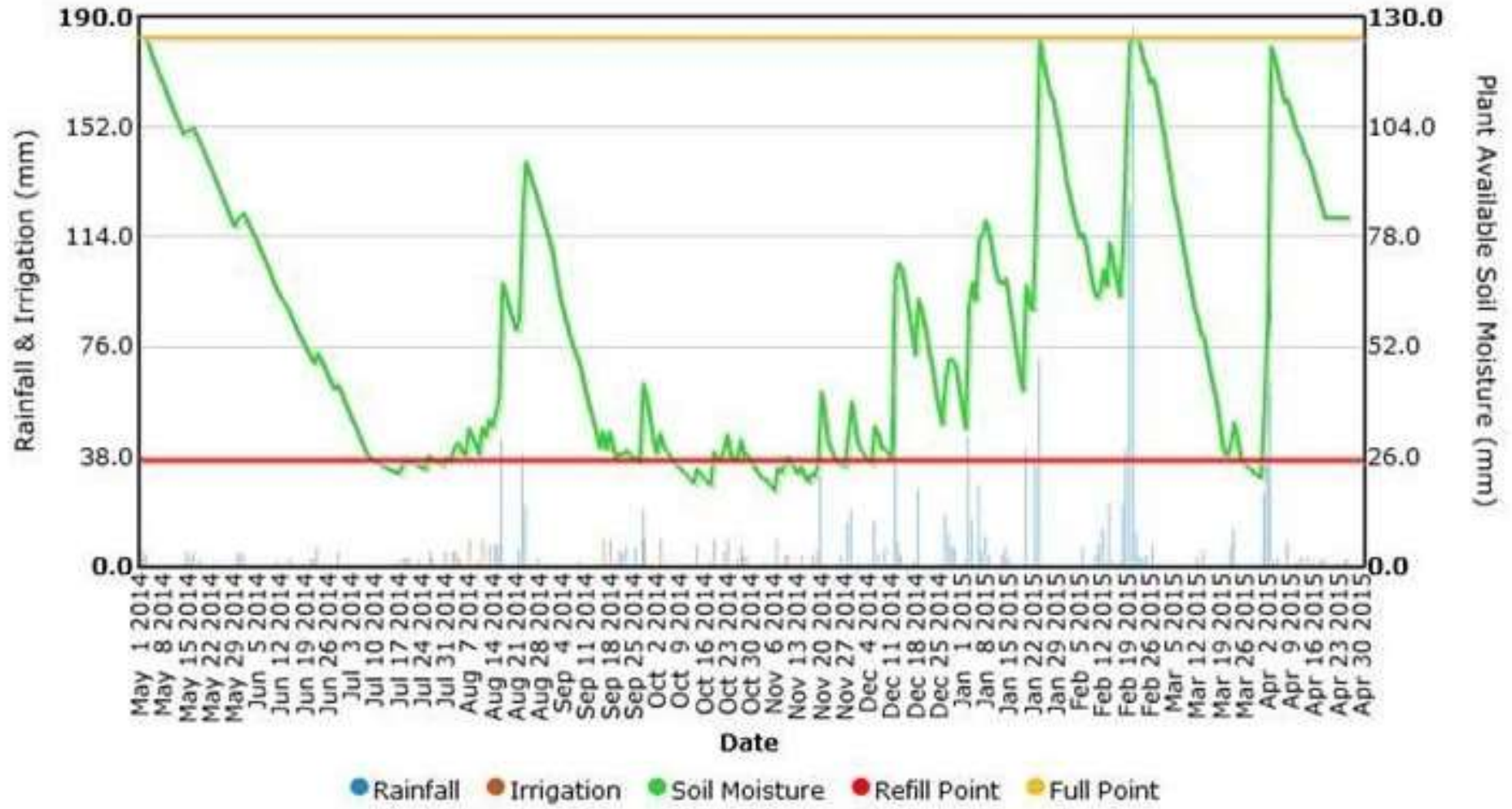
# SCHEDULING TOOLS

## DAILY EVAPORATION/WEB TOOLS

### *SCHEDULING IRRIGATION DIARY - SID*



**Field: SunsetWest (NSW Christmas Bush)**  
**Irrigation, Rainfall and Soil Moisture**





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# **SCHEDULING TOOLS**

**DAILY EVAPORATION/WEB TOOLS**

***ADVANTAGES***

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# **SCHEDULING TOOLS**

## **DAILY EVAPORATION/WEB TOOLS**

### ***ADVANTAGES***

**LOW COST**

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# **SCHEDULING TOOLS**

## **DAILY EVAPORATION/WEB TOOLS**

### ***ADVANTAGES***

**LOW COST**

**USEFUL FOR SCHEDULING NEXT IRRIGATION**

The background of the slide is a light gray gradient with several realistic water droplets of various sizes scattered across it. The droplets have highlights and shadows, giving them a three-dimensional appearance. The text is centered and uses a clean, sans-serif font.

# **SCHEDULING TOOLS**

## **DAILY EVAPORATION/WEB TOOLS**

### ***ADVANTAGES***

LOW COST

USEFUL FOR SCHEDULING NEXT IRRIGATION

RESULTS DIRECTLY RELATE TO WEATHER CONDITIONS

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# **SCHEDULING TOOLS**

## **DAILY EVAPORATION/WEB TOOLS**

### ***ADVANTAGES***

**LOW COST**

**USEFUL FOR SCHEDULING NEXT IRRIGATION**

**RESULTS DIRECTLY RELATE TO WEATHER CONDITIONS**

**CAN LOOK BACK AT HISTORY**

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# **SCHEDULING TOOLS**

**DAILY EVAPORATION/WEB TOOLS**

***DISADVANTAGES***

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# **SCHEDULING TOOLS**

**DAILY EVAPORATION/WEB TOOLS**

***DISADVANTAGES***

**RELIES ON ESTIMATES OF WATER USE**

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# **SCHEDULING TOOLS**

## **DAILY EVAPORATION/WEB TOOLS**

### ***DISADVANTAGES***

RELIES ON ESTIMATES OF WATER USE

NEED TO BE CLOSE TO A WEATHER STATION



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# **SCHEDULING TOOLS**

## **DAILY EVAPORATION/WEB TOOLS**

### ***DISADVANTAGES***

RELIES ON ESTIMATES OF WATER USE

NEED TO BE CLOSE TO A WEATHER STATION

ONLY SUITABLE FOR CROPS IN SOIL

# SCHEDULING TOOLS

## TENSIOMETERS



The background of the slide is a light gray gradient with several realistic water droplets of various sizes scattered across it. The droplets have highlights and shadows, giving them a three-dimensional appearance.

# **SCHEDULING TOOLS**

**TENSIOMETERS**

***ADVANTAGES***

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# SCHEDULING TOOLS

**TENSIOMETERS**

***ADVANTAGES***

LOW COST

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# SCHEDULING TOOLS

## TENSIOMETERS

### *ADVANTAGES*

LOW COST

MULTI-DEPTH

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# **SCHEDULING TOOLS**

## **TENSIOMETERS**

### ***ADVANTAGES***

**LOW COST**

**MULTI-DEPTH**

**CAN BE LOGGED AND RESULTS COMPARED**

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# SCHEDULING TOOLS

**TENSIOMETERS**

***DISADVANTAGES***

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# SCHEDULING TOOLS

**TENSIOMETERS**

***DISADVANTAGES***

HIGH LABOUR IF NOT LOGGED



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# SCHEDULING TOOLS

## TENSIOMETERS

### *DISADVANTAGES*

HIGH LABOUR IF NOT LOGGED

FREQUENT READING FOR GOOD DATA



# SCHEDULING TOOLS

## TENSIOMETERS

### *DISADVANTAGES*

HIGH LABOUR IF NOT LOGGED

FREQUENT READING FOR GOOD DATA

HIGH MAINTENANCE

The background of the slide is a light gray gradient with several realistic water droplets of various sizes scattered across it. The droplets have highlights and shadows, giving them a three-dimensional appearance.

# SCHEDULING TOOLS

## TENSIOMETERS

### *DISADVANTAGES*

HIGH LABOUR IF NOT LOGGED

FREQUENT READING FOR GOOD DATA

HIGH MAINTENANCE

MUST BE INSTALLED CORRECTLY

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# SCHEDULING TOOLS

## TENSIOMETERS

### *DISADVANTAGES*

HIGH LABOUR IF NOT LOGGED

FREQUENT READING FOR GOOD DATA

HIGH MAINTENANCE

MUST BE INSTALLED CORRECTLY

HARD TO ESTABLISH WATER USE PATTERNS

# SCHEDULING TOOLS

## GYPSUM BLOCKS



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# **SCHEDULING TOOLS**

## **GYPSUM BLOCKS**

### ***ADVANTAGES***

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# **SCHEDULING TOOLS**

## **GYPSUM BLOCKS**

### ***ADVANTAGES***

**LOW COST**



# SCHEDULING TOOLS

## **GYPSUM BLOCKS**

### ***ADVANTAGES***

LOW COST

ACCURATE





# SCHEDULING TOOLS

## **GYPSUM BLOCKS**

### ***ADVANTAGES***

LOW COST

ACCURATE

LOGGABLE

# SCHEDULING TOOLS

## **GYP SUM B L O C K S**

### ***ADVANTAGES***

LOW COST

ACCURATE

LOGGABLE

MULTIPLE DEPTHS

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# **SCHEDULING TOOLS**

## **GYPSUM BLOCKS**

### ***ADVANTAGES***

**LOW COST**

**ACCURATE**

**LOGGABLE**

**MULTIPLE DEPTHS**

**BETTER IN FINELY TEXTURED SOILS THAN TENSIO METERS**

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# **SCHEDULING TOOLS**

## **GYPSUM BLOCKS**

### ***DISADVANTAGES***

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# SCHEDULING TOOLS

## **GYPSUM BLOCKS**

### ***DISADVANTAGES***

REPLACE AFTER 2-3 SEASONS



# SCHEDULING TOOLS

## **GYPSUM BLOCKS**

### ***DISADVANTAGES***

REPLACE AFTER 2-3 SEASONS

HIGH LABOUR IF NOT LOGGED



# SCHEDULING TOOLS

## **GYPSUM BLOCKS**

### ***DISADVANTAGES***

REPLACE AFTER 2-3 SEASONS

HIGH LABOUR IF NOT LOGGED

CALIBRATION NEEDED

# SCHEDULING TOOLS

## **GYPSUM BLOCKS**

### ***DISADVANTAGES***

REPLACE AFTER 2-3 SEASONS

HIGH LABOUR IF NOT LOGGED

CALIBRATION NEEDED

SOIL PROFILE DISTURBED DURING INSTALLATION



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# **SCHEDULING TOOLS**

## **GYP SUM B L O C K S**

### ***DISADVANTAGES***

REPLACE AFTER 2-3 SEASONS

HIGH LABOUR IF NOT LOGGED

CALIBRATION NEEDED

SOIL PROFILE DISTURBED DURING INSTALLATION

HARD TO ESTABLISH WATER USE PATTERNS

# SCHEDULING TOOLS

## CAPACITANCE PROBES



# SCHEDULING TOOLS

## CAPACITANCE PROBES

*A NUMBER OF DIFFERENT UNITS AVAILABLE*

*RANGE FROM SIMPLE READING LIKE TENSIO METER TO DATA LOGGING AND REMOTE ACCESS.*



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# **SCHEDULING TOOLS**

## **CAPACITANCE PROBES**

### ***ADVANTAGES***

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# **SCHEDULING TOOLS**

## **CAPACITANCE PROBES**

### ***ADVANTAGES***

**ACCURATE**

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# **SCHEDULING TOOLS**

## **CAPACITANCE PROBES**

### ***ADVANTAGES***

**ACCURATE**

**CONTINUOUS LOGGING DATA**



# **SCHEDULING TOOLS**

## **CAPACITANCE PROBES**

### ***ADVANTAGES***

**ACCURATE**

**CONTINUOUS LOGGING DATA**

**MULTI-SITES, MULTI-DEPTH**

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# **SCHEDULING TOOLS**

## **CAPACITANCE PROBES**

### ***DISADVANTAGES***





# SCHEDULING TOOLS

## CAPACITANCE PROBES

### *DISADVANTAGES*

LIMITED SITES AND DEPTHS

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# **SCHEDULING TOOLS**

## **CAPACITANCE PROBES**

### ***DISADVANTAGES***

LIMITED SITES AND DEPTHS

DOWNLOADING DATA

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# **SCHEDULING TOOLS**

## **CAPACITANCE PROBES**

### ***DISADVANTAGES***

LIMITED SITES AND DEPTHS

DOWNLOADING DATA

REQUIRES SKILL TO INSTALL AND INTERPRET

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# **SCHEDULING TOOLS**

## **TOOLS FOR SUBSTRATES**

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# **SCHEDULING TOOLS**

## **TOOLS FOR SUBSTRATES**

**DIRECT SOIL MOISTURE MEASURING EQUIPMENT UNSUITABLE**

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# **SCHEDULING TOOLS**

## **TOOLS FOR SUBSTRATES**

**DIRECT SOIL MOISTURE MEASURING EQUIPMENT UNSUITABLE**

**ESTIMATES OF WATER USE OR WEIGHING CONTAINERS**

# SCHEDULING TOOLS



The background of the slide is a light gray gradient with several realistic water droplets of various sizes scattered across it. The droplets have highlights and shadows, giving them a three-dimensional appearance. The text 'OTHER FACTORS' is centered in the upper half of the image.

# OTHER FACTORS



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# OTHER FACTORS

TIME OF USE TARIFFS

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# OTHER FACTORS

TIME OF USE TARIFFS

SELF-GENERATED SOLAR POWER

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# **OTHER FACTORS**

**TIME OF USE TARIFFS**

**SELF-GENERATED SOLAR POWER**

**OTHER ACTIVITIES - SPRAYING AND HARVESTING**

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# OTHER FACTORS

TIME OF USE TARIFFS

SELF-GENERATED SOLAR POWER

OTHER ACTIVITIES - SPRAYING AND HARVESTING

SYSTEM CONTROL - MANUAL OR AUTOMATIC

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# **OTHER FACTORS**

**TIME OF USE TARIFFS**

**SELF-GENERATED SOLAR POWER**

**OTHER ACTIVITIES - SPRAYING AND HARVESTING**

**SYSTEM CONTROL - MANUAL OR AUTOMATIC**

**KEEPING FOLIAGE DRY**

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# **OTHER FACTORS**

**TIME OF USE TARIFFS**

**SELF-GENERATED SOLAR POWER**

**OTHER ACTIVITIES - SPRAYING AND HARVESTING**

**SYSTEM CONTROL - MANUAL OR AUTOMATIC**

**KEEPING FOLIAGE DRY**

**DOWNTIME FOR REPAIR AND MAINTENANCE**



# OTHER FACTORS

TIME OF USE TARIFFS

SELF-GENERATED SOLAR POWER

OTHER ACTIVITIES - SPRAYING AND HARVESTING

SYSTEM CONTROL - MANUAL OR AUTOMATIC

KEEPING FOLIAGE DRY

DOWNTIME FOR REPAIR AND MAINTENANCE

WATER AVAILABILITY



# OTHER FACTORS

TIME OF USE TARIFFS

SELF-GENERATED SOLAR POWER

OTHER ACTIVITIES - SPRAYING AND HARVESTING

SYSTEM CONTROL - MANUAL OR AUTOMATIC

KEEPING FOLIAGE DRY

DOWNTIME FOR REPAIR AND MAINTENANCE

WATER AVAILABILITY

WATER QUALITY




# MORE INFORMATION






**Cut flowers  
Farm Management System  
reference guide**

*References and contacts for industry best  
practice, environmental and economic success*

**BEST BUNCH**  
Queensland's Best Practice Growers





*Lex McMullin*

BAppSc(HortTech), DiplIrr, CNP

67 Roys Rd  
PALMWOODS QLD 4555  
t. 0409 263 572  
e. [ldmcmullin@hotmail.net.au](mailto:ldmcmullin@hotmail.net.au)