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Penman Monteith

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Reference Crop ET
Formula

Lecture 7:
Evapotranspiration

Calculating
Evapotranspiration
/u0026amp; Introducing
Ray'sTalk Reference
evapotranspiration
AquaCrop - Training
module Nr. 2.2, April
2016
Evapotranspiration,
Reference

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Evapotranspiration,

Crop Coefficients

Evapotranspiration:

Theory and Models

Penman-Monteith

method (for

evaporation and

evapotranspiration)

How to calculate the
reference crop

evapotranspiration?

#Agriculture #e-

learning #Irrigation

Determination of

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evapotranspiration

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2016 What is

evapotranspiration?

Evapotranspiration |

Irrigation Engineering

Crop specific

irrigation and

fertigation scheduling

including DSS

Potential

evapotranspiration

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using Thornthwaite's
method Irrigation:

Evapotranspiration
measured in pots

Potential

evapotranspiration

using Penman's

equation | Hydrology

Water Balance

Example 1 Lecture 13

— Minhashing |

Mining of Massive

Datasets | Stanford

University

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Excel_worksheet_cal
ulation_ET_Penman_
Monteith Weather
Wise :

Evapotranspiration
Understanding Crop
Water Use ~~SATELLITE-
BASED EVAPOTRANS
PIRATION FOR CROP
WATER USE
MAPPING AND
DROUGHT
MONITORING~~

Forestry Economics:

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Optimal Rotation Age

(Part 1) Water stress
detection,

evapotranspiration
indicator and
irrigation

management - Day

5.3 GFE 2017 - Ray

Archuleta

'Regenerating the

Land' IHE Delft

Monitoring Water

Productivity using

AquaCrop Field

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Methods in
Hydrology, Chapter
18-

Evapotranspiration
Measurement

Evaporation,

Evapotranspiration
and Transpiration |

Engineering

Hydrology |

GATE/ESE 2021

Exam Thornthwaite

classification of world

climate - Geography

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Optional - UPSC - by
Subhodeep Das

Import of climatic
data AquaCrop-

Training module Nr.
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Baseflow Separation
Methods Crop

Evapotranspiration

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Irrigation and
drainage paper 56.

Table of Contents. by.
Richard G. Allen Utah
State University ...

Part B - Crop
evapotranspiration
under standard
conditions. Chapter 5
- Introduction to crop
evapotranspiration
(ET c) Calculation

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~~Crop
evapotranspiration—
Guidelines for
computing crop ...~~

This publication
presents an updated
procedure for
calculating reference
and crop
evapotranspiration
from meteorological
data and crop

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coefficients. The
procedure, first
presented in FAO
Irrigation and
Drainage Paper No.
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requirements, in
1977, allows
estimation of the
amount of water used
by a crop, taking into
account the effect of
the climate and the
crop characteristics.

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titles : " Crop
evapotranspiration.

Guidelines for
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requirements "

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Crop
evapotranspiration.

Guidelines for
computing crop ...

Satellite data is used to estimate the rice and fallow lands. In conjunction to satellite interpreted data, climate and soil data are also integrated in GIS platform. CROPWAT

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model is used to determine the crop evapo-transpiration (ETc). There are 11 Water User ' s Associations (WUA) in the command area and under which 13 canal blocks are delineated.

~~Allen, E.A. (1998)~~

~~Crop~~

~~Evapotranspiration~~

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evapotranspiration -
Guidelines for
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requirements - FAO
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Logan, Utah, USA Luis
S. Pereira Instituto
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Portugal Dirk Raes

Katholieke

Universiteit Leuven

Leuven, Belgium

Martin Smith

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~~evapotranspiration~~

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~~computing crop ...~~

Crop

evapotranspiration is

calculated by

multiplying ET_o by K

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c, a coefficient expressing the difference in evapotranspiration between the cropped and reference grass surface. The difference can be combined into one single coefficient, or it can be split into two factors describing separately the differences in

Access Free Crop Evapotran evaporation and transpiration between both surfaces. For Computing Water

~~Chapter 5-~~

~~Introduction to crop
evapotranspiration
(ETc)~~

lead by on-line. This
online broadcast crop
evapotranspiration
lines for computing
water can be one of
the options to

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For Computing
Water

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Water~~
and crop
evapotranspiration.
They can be used for
computing crop water
requirements for both
irrigated and rainfed

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agriculture, and for
computing water
consumption by
agricultural and
natural vegetation.

~~FAO Irrigation and
Drainage Paper~~
Crop
evapotranspiration
($ET_c, L T - 1$) is
computed from the
product of the
reference

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evapotranspiration
($ET_o, L T - 1$)
following the FAO
Penman-Monteith
method and a crop
coefficient ...

~~Crop Evapotranspirati
on Guidelines for
computing crop ...
the
evapotranspiration
for a given time
period is determined~~

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by deducting the
drainage water,
collected at the
bottom of the

lysimeters, from the
total water input . (2)

Method on the basis
of reference crop
evapotranspiration

This method have two
steps .Computing
reference crop evapot
ranspiration (ET_0)
from meteorological

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~~CROP WATER REQUIREMENTS AND ITS CALCULATION~~

crop, relationships
between crop
evapotran.spiration
(ETcrop) and
reference crop
evapotranspiration
(ETo) are given in
Part I . 2 for different
crops, stages of

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growth, length of
growing season and
prevailing climatic
conditions. The effect
of local conditions on
crop water
requirements is given
in Part 1.3; this
includes local
variation in ...

~~FAO IRRIGATION
AND DRAINAGE
PAPER 24~~

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ET 0 reference
evapotranspiration
[mm day⁻¹], R n net
radiation at the crop
surface [MJ m⁻²
day⁻¹], G soil heat
flux density [MJ m⁻²
day⁻¹], T mean
daily air temperature
at 2 m [°C], u 2 wind
speed at 2 m [m s⁻¹], e s saturation
vapour pressure
[kPa], e a actual

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vapour pressure
[kPa], e_s sea
saturation vapour
pressure deficit [kPa],
slope vapour
pressure curve [kPa ...

~~Evaluation of several
soft computing
methods in monthly ...~~

In the FAO-56
approach, crop
evapotranspiration is
estimated by the

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s combination of a
reference
evapotranspiration
(ET_o) and crop
coefficients. There are
two different FAO-56
approaches: single
and dual crop
coefficients.

~~Estimation of
Evapotranspiration
ET_c and Crop
Coefficient ...~~

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evapotranspiration is a representation of the environmental demand for evapotranspiration and represents the evapotranspiration rate of a short green crop (grass), completely shading the ground, of uniform height and with adequate water

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status in the soil
profile. It is a
reflection of the
energy available to
evaporate water, and
of the wind available
to transport the water
vapor ...

~~Evapotranspiration—
Wikipedia~~

Chapter 2 of Crop
evapotranspiration:
Guidelines for

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computing crop water
requirements, FAO
Irrigation and
Drainage Paper 56
(Allen et al., 1998)
(hereafter referred to
as FAO 56) later
recommended the
FAO
Penman–Monteith
equation as the sole
method for
calculation of ET ref
based on the

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“grass” (now
“short crop”)
reference surface (ET
o), which requires
solar irradiance, air
temperature, air
humidity, and wind
speed as inputs.

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