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Evapotranspiration Lines  
For Computing Water  
**Crop**  
**Evapotranspiration**  
**Lines For Computing**  
**Water**

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Penman Monteith Reference  
Crop ET Formula

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Lecture 7:

Evapotranspiration

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Calculating

Evapotranspiration \u0026

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Introducing Ray'sTalk

Reference evapotranspiration

AquaCrop - Training module

Nr. 2.2, April 2016

Evapotranspiration,

Reference

Evapotranspiration, Crop

Coefficients

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*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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~~reference evapotranspiration~~

~~AquaCrop Training module~~

~~Nr. 2.3, April 2016~~ What is

~~evapotranspiration?~~

*Evapotranspiration /*

*Irrigation Engineering Crop*

*specific irrigation and*

*fertigation scheduling*



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~~including DSS Potential  
evapotranspiration using  
Thornthwaite's method~~

Irrigation:

Evapotranspiration measured  
in pots Potential  
evapotranspiration using  
Penman's equation |

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Hydrology Water Balance

*Example 1 Lecture 13 –  
Minhashing | Mining of  
Massive Datasets | Stanford  
University  
Excel\_worksheet\_calculation\_  
ET\_Penman\_Monteith Weather  
Wise : Evapotranspiration*

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Understanding Crop Water Use

~~SATELLITE BASED~~

~~EVAPOTRANSPIRATION FOR CROP~~

~~WATER USE MAPPING AND~~

~~DROUGHT MONITORING~~ *Forestry*

*Economics: Optimal Rotation*

*Age (Part 1) Water stress*

*detection,*

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*evapotranspiration indicator  
and irrigation management -  
Day 5.3 GFE 2017 - Ray  
Archuleta 'Regenerating the  
Land' IHE Delft ? Monitoring  
Water Productivity using  
AquaCrop ~~Field Methods in  
Hydrology, Chapter 18~~*

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~~Evapotranspiration  
Measurement Evaporation,  
Evapotranspiration and  
Transpiration | Engineering  
Hydrology | GATE/ESE 2021  
Exam Thornthwaite  
classification of world  
climate - Geography Optional~~

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~~For UPSC – by Subhodeep Das~~

~~Import of climatic data~~

~~AquaCrop – Training module~~

~~Nr. 2.4, April 2016 Baseflow~~

~~Separation Methods Crop~~

~~Evapotranspiration Lines For~~

~~Computing~~

PDF | On Jan 1, 1998,

*Page 14/52*

# Access Free Crop Evapotranspiration Lines

Richard G. Allan and others  
published Crop  
evapotranspiration-  
Guidelines for computing  
crop water requirements-FAO  
Irrigation and drainage  
paper 56 | Find, read and  
cite all ...

# Access Free Crop Evapotranspiration Lines For Computing Water

~~(PDF) Crop~~

~~evapotranspiration~~

~~Guidelines for computing ...~~

Crop evapotranspiration -

Guidelines for computing

crop water requirements -

FAO Irrigation and drainage



# Access Free Crop Evapotranspiration Lines

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 procedures.

# Access Free Crop Evapotranspiration Lines For Computing Water

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

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

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meteorological data and crop coefficients. The procedure, first presented in FAO Irrigation and Drainage Paper No. 24, Crop water requirements, in 1977, allows estimation of the amount of water used by a

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For Computing Water  
crop, taking into account  
the effect of the climate  
and the crop  
characteristics.

~~[PDF] Crop  
evapotranspiration ÷  
guidelines for computing ...~~

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This publication presents an updated procedure for calculating reference and crop evapotranspiration from meteorological data and crop coefficients. The procedure, first presented in FAO Irrigation and Drainage

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Paper No. 24, Crop water 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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~~[PDF] Crop~~

~~evapotranspiration.~~

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Guidelines for Computing  
Crop Water Requirements |  
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~~(PDF) Crop  
Evapotranspiration.~~



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~~Guidelines for Computing ...~~

Issue : 56 Extent : 300 p.

Publisher : FAO ISBN :

92-5-104219-5 All titles : "

Crop evapotranspiration.

Guidelines for computing

crop water 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

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also integrated in GIS  
platform. CROPWAT 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

# Access Free Crop Evapotranspiration Lines delineated. For Computing Water

~~Allen, E.A. (1998) Crop  
Evapotranspiration  
Guidelines for ...~~

Crop evapotranspiration -  
Guidelines for computing  
crop water requirements -

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FAO Irrigation and drainage  
paper 56 By Richard G. Allen  
Utah State University Logan,  
Utah, USA Luis S. Pereira  
Instituto Superior de  
Agronomia Lisbon, Portugal  
Dirk Raes Katholieke  
Universiteit Leuven Leuven,

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Belgium Martin Smith

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

Crop evapotranspiration is  
calculated by multiplying  $ET_o$   
by  $K_c$ , a coefficient

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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

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separately the differences  
in evaporation and  
transpiration between both  
surfaces.

~~Chapter 5 — Introduction to  
crop evapotranspiration  
(ETc)~~



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and crop evapotranspiration.  
They can be used for  
computing crop water  
requirements for both

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For Computing Water  
Irrigated and rainfed  
agriculture, and for  
computing water consumption  
by agricultural and natural  
vegetation.

~~FAO Irrigation and Drainage  
Paper~~

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Crop evapotranspiration ( $ET_c$ ,  $L T ? 1$ ) is computed from the product of the reference evapotranspiration ( $ET_o$ ,  $L T ? 1$ ) following the FAO Penman-Monteith method and a crop coefficient ...

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~~Crop Evapotranspiration  
Guidelines for computing  
crop ...~~

the evapotranspiration for a  
given time period is  
determined by deducting the  
drainage water, collected at

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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  
evapotranspiration?ET 0?

# Access Free Crop Evapotranspiration Lines From meteorological data

~~CROP WATER REQUIREMENTS AND  
ITS CALCULATION~~

crop, relationships between  
crop evapotranspiration  
( $ET_{crop}$ ) and reference crop  
evapotranspiration ( $ET_o$ ) are



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For Computing Water  
given in Part I . 2 for  
different crops, stages of  
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

# Access Free Crop Evapotranspiration Lines includes local variation in ...

~~FAO IRRIGATION AND DRAINAGE  
PAPER 24~~

ET 0 reference

evapotranspiration [mm day  
?1], R n net radiation at

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the crop surface [ $\text{MJ m}^{-2}$   
day $^{-1}$ ],  $G$  soil heat flux  
density [ $\text{MJ m}^{-2}$  day $^{-1}$ ],  $T$   
mean daily air temperature  
at 2 m [ $^{\circ}\text{C}$ ],  $u_2$  wind speed  
at 2 m [ $\text{m s}^{-1}$ ],  $e_s$   
saturation vapour pressure  
[kPa],  $e_a$  actual vapour

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pressure [kPa],  $e_s$  = a  
saturation vapour pressure  
deficit [kPa],  $\gamma$  slope  
vapour pressure curve [kPa  
...

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

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In the FAO-56 approach, crop evapotranspiration is estimated by the combination of a reference evapotranspiration ( $ETo$ ) and crop coefficients. There are two different FAO-56

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approaches: single and dual  
crop coefficients.

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

Potential evapotranspiration  
is a representation of the

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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~~



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~~Wikipedia~~ For Computing Water

Chapter 2 of Crop

evapotranspiration:

Guidelines for computing

crop water requirements, FAO

Irrigation and Drainage

Paper 56 (Allen et al.,

1998) (hereafter referred to

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as FAO?56) later recommended the FAO Penman-Monteith equation as the sole method for calculation of  $ET_{ref}$  based on the "grass" (now "short crop") reference surface ( $ET_0$ ), which requires solar irradiance,

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air temperature, air  
humidity, and wind speed as  
inputs.

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