


Errata FAO n° 56 : ‘Crop evapotranspiration’

Page	Situation	Errata
viii	Missing in table of contents	Air temperature ... Page 32
xxv	SW missing	Soil water content [mm]
xxii	Potential conflict of units in ‘List of principal symbols and acronyms’ - Eq. (2)	note that ET, CR are in mm day ⁻¹ I, P, RO, DP, SF, ΔSW are in mm. <i>Note that ET is expressed in mm when used in equations with these terms, but it is expressed in mm/day when used in many other equations. The reader should distinguish the proper time unit</i>
20	line 6 from bottom	should read “resistance to vapour”
39	Example 5, second line from bottom	The Eq. 17 is missing a ‘2’ in denominator
45	Table 3, last column	Change 0.035 to 0.0353 (more precision for conversion)
46, 47	d _r inverse relative distance Earth-Sun (Equation 23)	d _r inverse of <u>the square</u> of the relative distance Earth-Sun (Equation 23)
47	Example 8	d _r is dimensionless (it does not have units of radians, as shown)
54	Eq. (41)	- sign (difference of temperature) instead of + sign
62	The conversion of radiation from MJ per square meter per day on page 62 to mm/day stems from page 26 where the explanation for the 0.408 factor is provided .	
75	Box Example 19, line 3	eliminate the word “average”
99	last line	delete the space between “d” and “escribing”
110	footnote 1 of Table 12	add: “If not listed, use the K _{c ini} value for the crop category”
121	Illustration of the climatic effect – last sentence	As an example, expected variations for K _{c mid} for tomatoes wheat in response to ... in Box 14
149	(below Table 20) rules to determine f _w	<i>replace the first bullet with the following two bullets:</i> <ul style="list-style-type: none"> • Surface is wetted by irrigation and insignificant rain (< 3 to 4 mm): f_w is f_w for the irrigation system • Surface is wetted by irrigation and significant rain (> 3 to 4 mm): f_w is 1.0 (precipitation)
154-155	Example 35	Calculation for E and K _c on day 3 were incorrect and this influenced calculations for subsequent days. Also, rounding of D _{e,i} between days (to mimic hand calculations) in the original example has been changed to exact calculations using a spreadsheet. A new Example 35 is contained as an errata.
167	Figure 42 – caption of X-as (at the bottom) is missing	D _r : root zone depletion
172-173	Example 38	The recalculation for E and K _c in the errata for Example 35 has required change for Example 38 as well. A new

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		Example 38 is contained as an errata.
186	Eq. (97)	$K_{cb\ mid}$ → $K_{cb\ mid\ adj}$ = estimated basal K_{cb} during the mid-season when plant density and/or leaf area ...
187	Eq. (98)	idem
188	Box 18 - last part	Where φ : latitude [rad] (negative for southern latitudes) (Eq. 22)
213	Table 2.1 First column Z	Z → z
214	idem	
224	Eq. (3-8)	change 0.611 to 0.6108 to be compatible with eqn. 11 (<i>R.Allen, 2/2001</i>)
226	Eq. (3-14)	-0.0018 P → -0.0021 P (<i>this may require an explanatory footnote</i>)
226	List of parameters of Eq. (3-14) K_t turbidity coefficient [], $0 < K_t \leq 1.0$ where $K_t = 1.0$ for clean air and $K_t = 1.0$ for extremely trubid, dusty or polluted air	$K_t = 1.0 \rightarrow K_t \approx 0.5$
227	First line of Equation (3-20) $K_D = 0.35 - 0.33 K_B$ for $K_B \leq 0.15$	$K_D = 0.35 - 0.36 K_B$ for $K_B \leq 0.15$ (i.e., 0.33 → 0.36) (<i>this may require an explanatory footnote</i>)
267	In section on Equations for figures 29 and 30 of Chapter 6. All occurrences where “Equation 3” is mentioned	All occurrences of “Equation 3” should be changed to “Equation 7-3”
268	Example 7-1 of Annex 7: Application of Eq. 7-3 to Example 25	Calculation from equation is incorrect. Change four occurrences of “0.57” to “0.53” . Change two occurrences of “0.63” to “0.61” and change final answer from “3.2 mm/day” to “3.0 mm/day” 

Comment: This error was brought to Allen’s attention by Dr. Marvin Jensen, March, 2002. The FAO56Ax7.xls spreadsheet that is available from the Kimberly web site has the correct computation for Example 25. We missed correcting the printed Example 7-1.