

## HLWYM NPEmails

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**From:** Randall Fedors  
**Sent:** Friday, October 05, 2007 3:10 PM  
**To:** 'Dani Or'  
**Cc:** Stuart Stothoff  
**Subject:** Fwd: RE: soil measurements

BTW, I was going to describe the K and alpha equations as simplifications of the Woodring (1968) equations and attribute it to White et al. (1992).

--Randy

>>> Randall Fedors 10/05/2007 3:05 PM >>>  
Sorry, another question. And yes, I realize it's Friday.  
What can I cite for the sorptivity equation you used in several analyses?

Usually you used a gradient directly from the early data. But in several cases you averaged the data-derived sorptivity with another approach:  
$$S = \left[ \frac{\text{Radius of base} * d\theta^2}{1.31 * \text{time}^{1/2}} \right] * \left[ \frac{1 + 2.63 * I_f}{\text{Radius of base} * d\theta} \right]^{-1/2}$$
  
Cheers,  
Randy

>>> "Dani Or" <[dani.or@epfl.ch](mailto:dani.or@epfl.ch)> 10/04/2007 11:59 AM >>>  
Hi Randy (greetings from Brussels - "DC" of Europe)  
I am in a really boring meeting on hydrologic observatories... I have the QP file but it is on my computer at home...if you could wait a few days (Saturday) I could send you the file, but it would be simple enough to just correct and repeat the calculation.  
Cheers  
Dani

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-----Original Message-----

From: Randall Fedors [<mailto:rwf@nrc.gov>]  
Sent: Thursday, October 04, 2007 5:37 PM  
To: Stuart Stothoff; dani.or@epfl.ch  
Subject: RE: soil measurements

Dani,

At first glance, Quattro reading the Excel file took care of the majority of the conversion problems. But there is one error on each calculation that remains. I can fix the error, but I have to choose a range of cells over which to calculate an average infiltration rate. I can check to confirm that I get approximately the same average but cross-checking the Ks and alpha estimates. Excel struggled with converting the function AVG, go figure.

Apparently you converted the Quattro file to Excel before sending. Do you have the original Quattro file? If so, it would be cleaner to use that file. If not, I can just put in some reasonable ranges for the average.

infil598\_wb3.xls

Thanks,  
Randy

>>> "Dani Or" <[dani.or@epfl.ch](mailto:dani.or@epfl.ch)> 10/03/07 3:19 PM >>>

Hi Randy and Stu

Here are the files from the 1998 field trip - I have records of everything

(remember the night you got drunk at the steak house in San Antonio?

Yep, I

got that one documented.)

Cheers

Dani

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From: Randall Fedors [<mailto:RWF@nrc.gov>]  
Sent: Tuesday, October 02, 2007 10:50 PM  
To: Stuart Stothoff  
Cc: Dani Or  
Subject: soil measurements  
Stu,

The remaining data that cannot be connected to either of our notebooks is the attached table, which appeared to be provided by Dani. The Quattro spreadsheets Dani provided last week were helpful; they had data from two field visits in 1997, both of which could be connected to your scientific notebook.

Can you see if Dani can find any spreadsheets from the May 15-18, 1998 field visit? These data may be problematic regardless, unless there is some location information in a spreadsheet Dani might find.

The other

Thanks,  
Randy

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**Mail Envelope Properties** (Randall.Fedors@nrc.gov20071005151011)

**Subject:** Fwd: RE: soil measurements  
**Sent Date:** 10/5/2007 3:10:11 PM  
**Received Date:** 10/5/2007 3:10:11 PM  
**From:** Randall Fedors

**Created By:** Randall.Fedors@nrc.gov

**Recipients:**

"Stuart Stothoff" <sstothoff@cnwra.swri.edu>  
Tracking Status: None  
"Dani Or" <dani.or@epfl.ch>  
Tracking Status: None

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MESSAGE	4097	10/5/2007 3:10:11 PM

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**Priority:** Standard  
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