

**martin becker**

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**From:** Wingerd, David B HQ02 [David.B.Wingerd@HQ02.USACE.ARMY.MIL]  
**Sent:** Friday, January 16, 2004 3:12 PM  
**To:** 'martin becker'  
**Subject:** FW: Deer Creek - skew

Martin,

I assume that you have seen this e-mail to Mr. Hamilton concerning the skew

David Wingerd, P.E.  
Senior Hydraulic Engineer  
202-761-1802

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

**From:** Evelyn, Joseph B SPL  
**Sent:** Thursday, January 15, 2004 7:10 PM  
**To:** Wingerd, David B HQ02  
**Subject:** FW: Deer Creek

Dave,

By chance I came across a previous response to the Deer Creek skew question. See belcw.

Joe

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

**From:** Douglas Hamilton [mailto:dhamilton@exponent.com]  
**Sent:** Tuesday, February 27, 2001 6:40 AM  
**To:** 'jevelyn@spl.usace.army.mil'  
**Subject:** RE: Deer Creek

Joe,

Thanks.

I am using a weighted skew between the regional result and the gage data for Day Creek in order to better fit the data. The regional skew doesn't seem to fit the data.

Will send out my info on Wednesday.

Doug

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

**From:** [jevelyn@spl.usace.army.mil](mailto:jevelyn@spl.usace.army.mil) [mailto:[jevelyn@spl.usace.army.mil](mailto:jevelyn@spl.usace.army.mil)]  
**Sent:** Monday, February 26, 2001 4:15 PM  
**To:** [dhamilton@exponent.com](mailto:dhamilton@exponent.com)  
**Cc:** [sverigin@water.ca.gov](mailto:sverigin@water.ca.gov)  
**Subject:** RE: Deer Creek

Doug,

We did use an adopted skew of -0.2 for the analytical discharge frequency analysis for the Day Creek near Etiwanda Creek streamgage in our November 1999 Deer Creek report. The same unit discharge (cfs/square mile) was used for each frequency flood as determined on Day Creek for the corresponding frequency unit discharge on Deer Creek.

The adopted skew value of -0.2 was selected based on (1) the generalized skew map in WRC Bulletin #17B (Revised) which indicated a variation in skew from -0.3 at the coast to zero at 50 miles inland, and (2) the general shape (negative skew) of graphically drawn discharge frequency curves for Day, East Etiwanda, and San Sevaine Creeks that were developed in 1970 for damage frequency studies on those streams.

We verified that using a skew value of zero in the discharge frequency analysis would not significantly alter either the magnitude of the 100-year discharge or the estimate of the 100-year debris yield for Deer Creek. Also of note is the fact that we included the 1969 flood peak of 9,450 cfs directly in the Day Creek analysis even though this peak discharge estimate was probably influenced by the effects of debris.

Joe

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

From: Douglas Hamilton [mailto:[dhamilton@exponent.com](mailto:dhamilton@exponent.com)]

Sent: Friday, February 23, 2001 10:07 AM

To: 'Joe Evelyn'

Subject: Deer Creek

Joe,

I can't recall from the last meeting how you arrived at your skew coefficient for Day Creek. I believe you said it was -.2

Can you remind me.

Doug