From: Hilts, Derek <derek\_hilts@fws.gov>
Sent: Wednesday, April 17, 2019 8:53 AM

**To:** Cathy Marcinkevage - NOAA Federal; Evan.Sawyer@noaa.gov

**Subject:** Re: [EXTERNAL] Inimpaired Flow Hydrograph

Attachments: DWRpublication\_UF\_May2007aVersion.pdf; SacramentoRiver\_UnimpairedFlow\_

4NOAA.xlsx

## Hi Cathy,

Here (attached) is a report DWR put out around 10 years ago with unimpaired flow estimates for WY1922-WY2003.

I pulled out the table for the Sac River near Red Bluff and added more recent years' data per documentation in the attached workbook.

I'll leave it to Evan to decide how he wants to chart the data.

Derek

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On Tue, Apr 16, 2019 at 2:33 PM Cathy Marcinkevage - NOAA Federal <<u>cathy.marcinkevage@noaa.gov</u>> wrote:

Hey Derek ---

Have you seen, or do yo have an idea of the difficulty in generating, a hydrograph of average unimpaired flow ("full natural flow"?) for the upper Sac, say below Keswick? Evan could find that to be useful so I'm poking to find one.

Thanks - Cathy