

Figure 1. Mean daily flow, Maacama Creek, water year 2004.



Figure 2. Map of the Russian River Basin with star at study sites where tributary flows were measured.

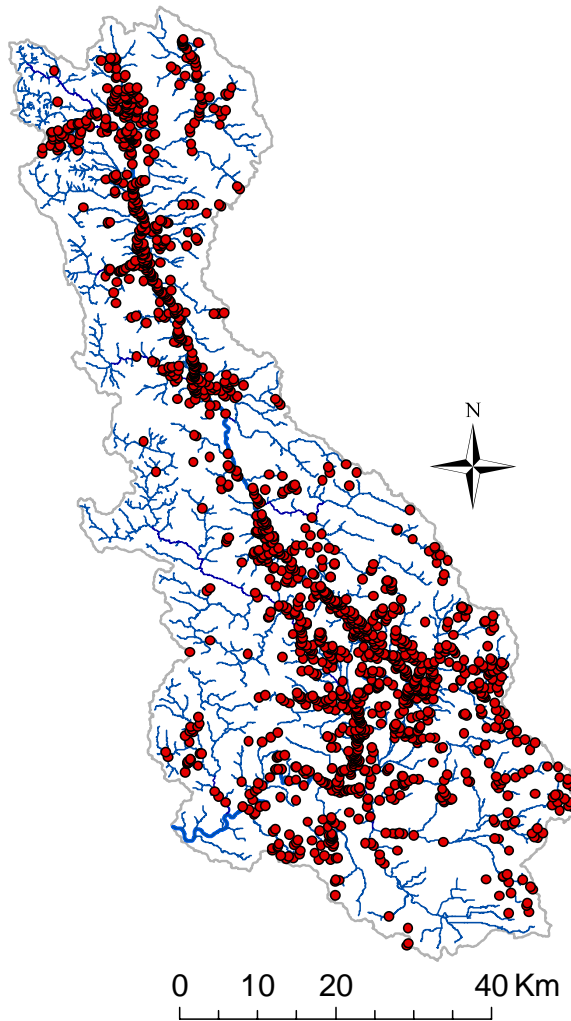


Figure 3. Proposed sites for requested water rights in the Russian River watershed.

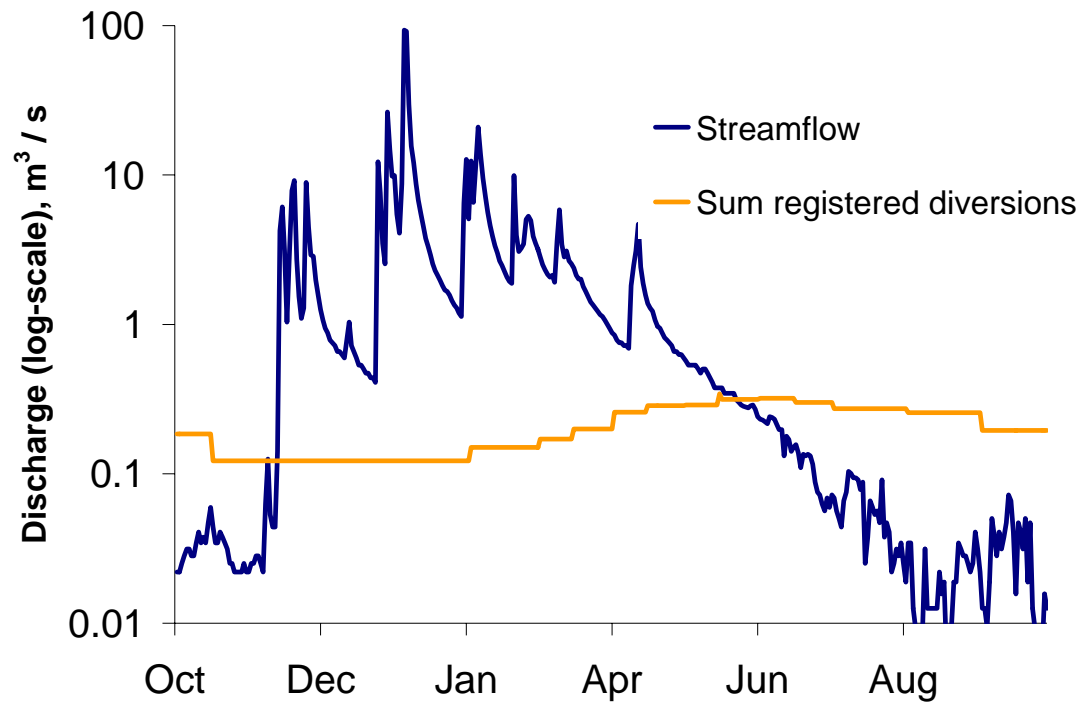


Figure 4. Comparison of normal-year streamflow and water demand totaled from permitted diversions for a typical Russian River watershed

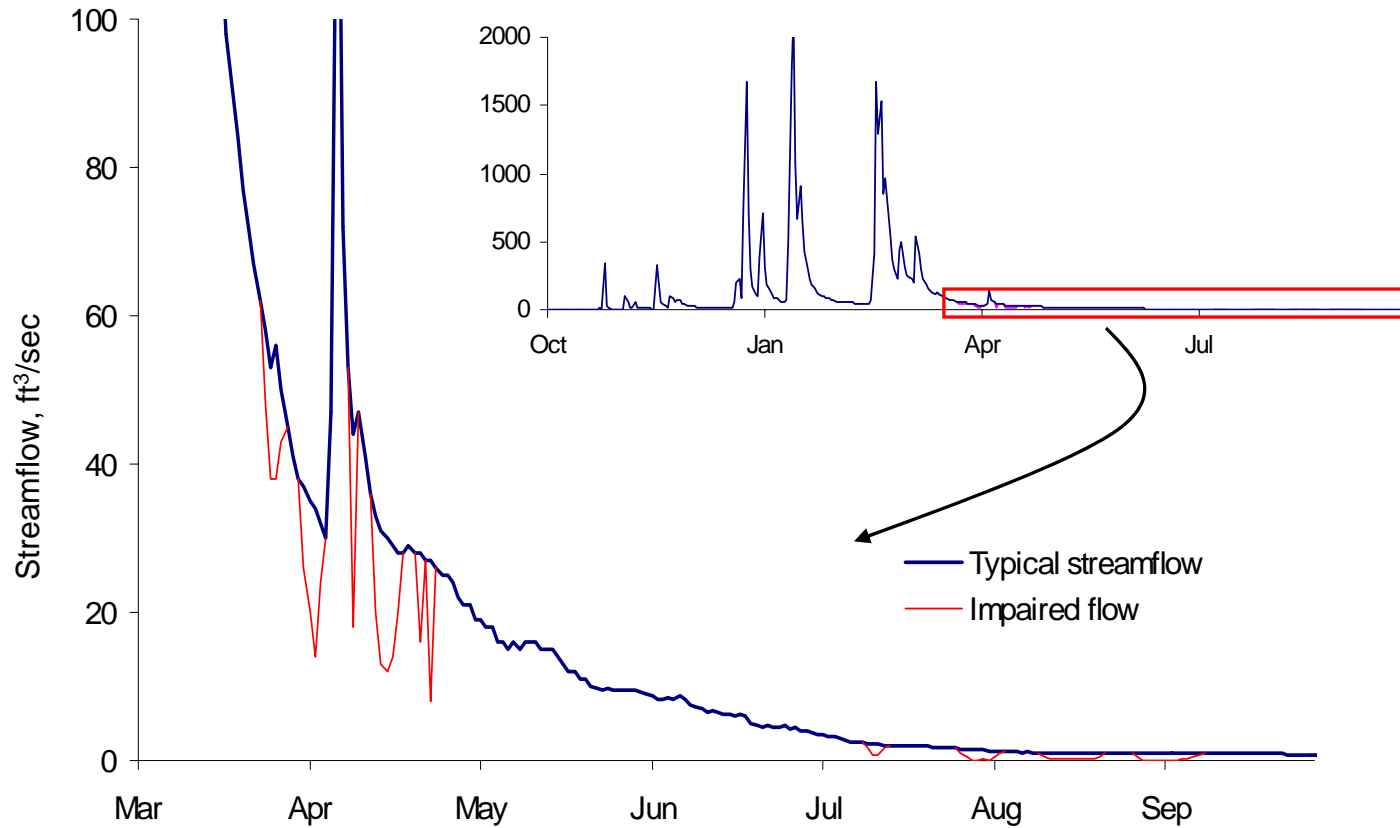


Figure 5. Typical streamflow impairment caused by diversions for frost protection and heat protection, for normal-year streamflow.

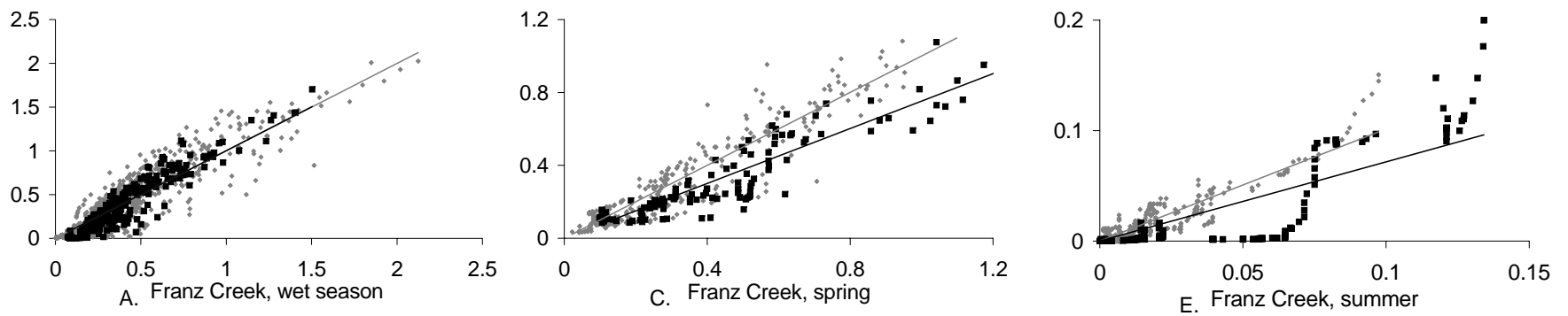


Figure 6. Comparison of historical and recent streamflow as a function of precipitation, Franz Creek (Deitch 2006). These values are predicted from statistical relationships between observed rainfall and streamflow at the same site on Franz creek taken in the 1960's by the USGS and in 2004 & 2005 by the authors.

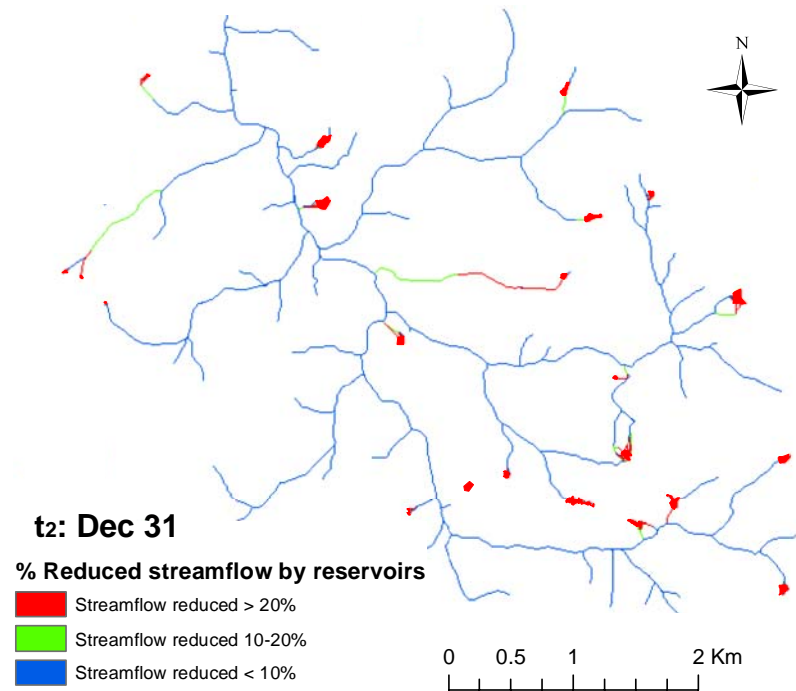
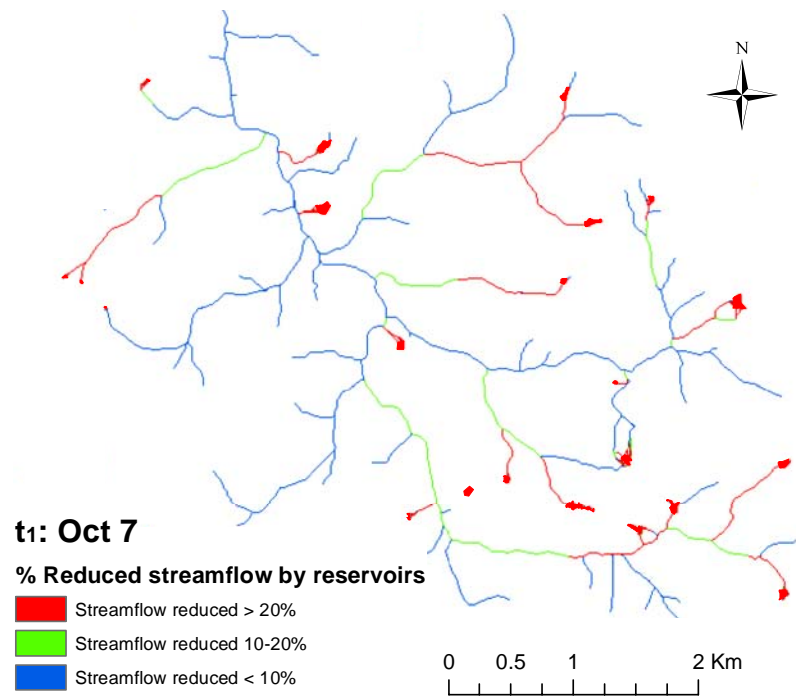


Figure 7A-B. Reductions in streamflow through a portion of the Franz Creek drainage network resulting from 21 small reservoirs at the onset of the rainy season (t1), and by late December (t2); and associated stream hydrograph.

