

**Domestic Water Use Estimates**

This document provides background information on how domestic water use estimates were developed for the Russian River Tributaries Emergency Regulation. The purpose of the estimates is to provide landowners whose only use of water is domestic with a simple way to estimate their water use in response to the State Water Resources Control Board’s (State Water Board) [Informational Order](#). Landowners whose only use of water is domestic do not need to report water estimates, but may instead provide the number of individuals served domestically by the water source (e.g., groundwater well). The State Water Board will then calculate the water use estimate by multiplying the number of individuals served domestically from the water source by the estimated monthly water use values provided in Table 1 below. Landowners who believe their use is higher or lower than the estimated domestic water use values provided in Table 1 can use an alternate method<sup>i</sup> to estimate their water use.

In July 2014, the State Water Board adopted statewide Emergency Conservation Regulations to limit outdoor water use. The statewide Emergency Conservation Regulation also requires urban water suppliers to report monthly water use information. Urban water suppliers submitted annual water use information for 2013, and monthly water use information beginning in June 2014. To estimate the Residential-Gallons Per Capita (Person) per Month (R-GPCM), the total monthly water production was multiplied by the reported percentage of residential use, which was then divided by the total population (as shown in the formula below). For the purposes of the Russian River Tributaries Emergency Regulation, 2014-2015 monthly use values (June 2014 through May 2015) for the City of Healdsburg were selected as the best available data to represent the average residential water use for the four priority watersheds.

$$\frac{(\text{Total Water Production/Use for Month} * \% \text{ residential use})}{(\text{Total Population})} = \text{R-GPCM for Month}$$

For households which occupy a dwelling less than full time, the daily water use values in the first row below may be used to pro-rate usage for each month based on the per-person actual occupancy. The second row represents the monthly per person values shown in the Online Informational Order Form. The State Water Board will use the number of individuals the groundwater well serves domestically and the monthly values in Table 1 to estimate water use for landowners that have no other means to estimate their domestic use.

Table 1. Estimated Residential (Domestic) Gallons per Capita per Day (R-GPCD) and per Month (R-GPCM)

	January	February	March	April	May	June	July	August	September	October	November	December
R-GPCD	59.5	61.5	79.4	83.5	93.5	137.0	138.7	138.4	118.2	101.2	73.8	59.5
R-GPCM	1,846	1,784	2,461	2,505	2,899	4,111	4,298	4,292	3,545	3,138	2,215	1,846

Additional information on the Russian River Tributaries Emergency Regulation and Informational Order is available online at:

Emergency Regulation:

[http://www.swrcb.ca.gov/waterrights/water\\_issues/programs/drought/docs/russian\\_river/emreg\\_final070615.pdf](http://www.swrcb.ca.gov/waterrights/water_issues/programs/drought/docs/russian_river/emreg_final070615.pdf)

Informational Order:

[http://www.waterboards.ca.gov/waterrights/water\\_issues/programs/drought/docs/rtribs/wr20150026\\_dwr\\_links.pdf](http://www.waterboards.ca.gov/waterrights/water_issues/programs/drought/docs/rtribs/wr20150026_dwr_links.pdf)

<sup>i</sup> <http://www.wecalc.org/calc/> or

[http://www.swrcb.ca.gov/waterrights/water\\_issues/programs/diversion\\_use/wm\\_alt\\_mthds.shtml](http://www.swrcb.ca.gov/waterrights/water_issues/programs/diversion_use/wm_alt_mthds.shtml)