DFG-T-19

GROWTH CURVES FOR CENTRAL CALIFORNIA STEELHEAD POPULATIONS

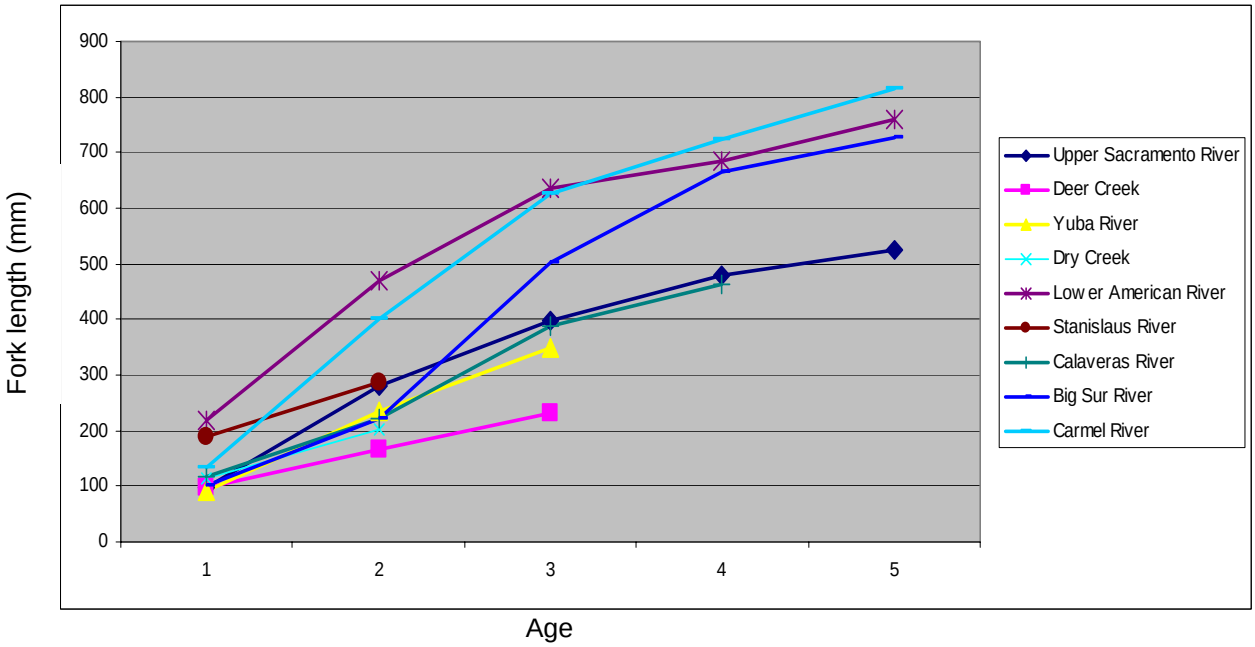

Figure. Growth curves for select California coastal and Central Valley steelhead rainbow trout populations. This information was developed by DFG using scales sampled from adult steelhead in each of these populations and the Fraser-Lee backcalculation procedure to estimate steelhead size at each age. Coastal populations are represented by the Big Sur River, Carmel River, and Lower American River given the Eel River origin of the current population. Remaining populations are in the Central Valley. Note the characteristically large size of adults in the strongly anadromous coastal populations. Exhibit DFG-T-3 reports adult steelhead up to at least 900 mm (35 inches) on the Big Sur River. The largest steelhead from which scales were sampled for the analysis above was 807 mm FL (32 inches).

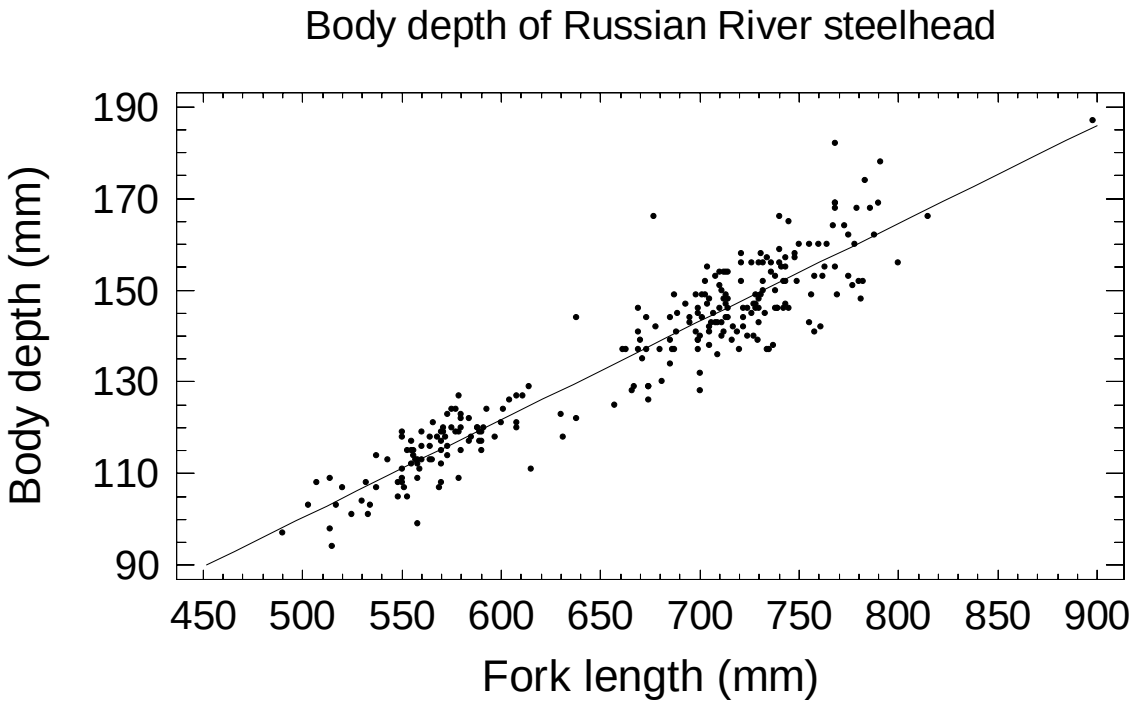

Figure. Body depth as a function of fork length from Russian River steelhead sampled at Warm Springs Hatchery during late 2010-early 2011 (F. Bajjaliya and R. Titus, DFG, unpubl. data). The equation for the fitted linear model is: Body Depth = -6.67648 + 0.214086*Fork Length, $p < 0.0001$, $r^2 = 0.88$. Like Big Sur River steelhead, Russian River steelhead are the large coastal type, ranging up to about 900 mm FL (35 inches). The model above predicts a body depth of 186 mm (7.3 inches).