Abbreviated Citation	Yuan (2006)
Full Citation	Yuan, Lester. 2006. Estimation and Application of Macroinvertebrate Tolerance Values. Report No. EPA/600/P-04/116F. National Center for Environmental Assessment, Office of Research and Development, U.S. Environmental Protection Agency, Washington, D.C.
Description	Thermal optima values from Table C-1 in Appendix C were entered (these correspond to the WA values in Table C-1). These data were derived from EMAP-West samples that were collected in 2000-2001.
Tolerance Calculations	Temperature weighted average calculations are based on 392 EMAP-West samples that were collected during the summer sampling period from 2000 to 2001. Details on how the values were calculated can be found in the Yuan (2006) report.
Published	yes (EPA report)
Highest Level of Taxonomic Resolution	genus
Point of Contact	Lester Yuan (yuan.lester@epa.gov)
Data Integration Notes	Jen Stamp (Tetra Tech) added in ThermalOptima_Rank entries so that thermal optima data could be better compared across data sets. Rankings were calculated using a 1-7 scoring scheme based on the following percentiles: 0, 0.1, 0.25, 0.4, 0.6, 0.75, 0.9, 1, such that low ThermalOptima_Rank scores = preference for colder water and high ThermalOptima_Rank scores = preference for warmer water.
	Additional data (GLMAX, GLMCL, GAMMAX, GAMCL, and CD75) are available in Table C-1.