

Appendix I Temperature Results

Reclamation Temperature Model and SRWQM Water Temperature Results

The water temperature results for the July 28, 2008, CalSim-II Studies (6.0, 7.0, 7.1 and 8.0) are included as an electronic appendix. The compressed file (Filename: OCAP_Studies_WaterTemp_072808.zip) contains the following files and information:

1. Reclamation Temperature Model (monthly time-step model) Results (see Table I-1).
 - a) **OCAP_2008_WaterTemp_Trinity_072808.xls**
 - b) **OCAP_2008_WaterTemp_American_072808.xls**
 - c) **OCAP_2008_WaterTemp_LwrSacR_072808.xls**
 - d) **OCAP_2008_WaterTemp_Stanislaus_072808.xls**
2. Sacramento River Water Quality Model (SRWQM; 6-hour time-step, mean daily flow model) Results (see Table I-2).
 - a) **OCAP_2008_SRWQM_WaterTemp_SacRiv&ClearCr_072808.xls**
3. Lake Shasta and Folsom Lake Cold-Water Pool (CWP) Volume Exceedences.
 - a) **Shasta_CWP_Vol_Exceedence_072808.xls**
 - b) **Folsom_CWP_Vol_Exceedence_072808.xls**

Examples of water temperature model outputs are shown in Figures I-1 through I-4.

Table I-1: Reclamation Monthly Temperature Model Location of Temperature Output Nodes

RIVER OR CREEK SYSTEM	LOCATION	Approx. River Miles
TRINITY RIVER	Trinity Dam	--
	Lewiston Dam	112
	Douglas City	92
	North Fork	75
CLEAR CREEK	Whiskeytown Dam	17
	Above Igo	10
	Below Igo	10
	Confluence	0
AMERICAN RIVER	Folsom Dam	--
	Nimbus Dam	23
	Sunrise Bridge	20
	Cordova Park	15
	Arden Rapids	13
	Watt Avenue Bridge	9
	American River Filtration Plant	7
	H Street	6
	16 th Street	2
	Confluence	0
SACRAMENTO RIVER	Shasta Dam	--
	Keswick Lake above Spring Creek Tunnel	--
	Spring Creek Tunnel	--
	Keswick Dam	301
	Balls Ferry	275
	Jellys Ferry	266
	Bend Bridge	256
	Red Bluff	241

RIVER OR CREEK SYSTEM	LOCATION	Approx. River Miles
	Vina	218
	Butte City	168
	Wilkins Slough	118
	Colusa Basin Drain	90
	Feather River	80
	American River	60
	Freeport	46
STANISLAUS RIVER	New Melones Dam	--
	Tulloch Dam	60
	Goodwin Dam	58
	Knights Ferry	54
	Orange Blossom	46
	Oakdale	39
	Riverbank	34
	McHenry Bridge	30
	Ripon	16
	Confluence	0

Table I-2: Sacramento River Water Quality Model (SRWQM) Location of Temperature Output Nodes

RIVER OR CREEK SYSTEM	LOCATION	Approx. River Miles
SACRAMENTO RIVER	Shasta Dam	--
	Spring Creek Tunnel	--
	Keswick Dam	301
	Balls Ferry	275
	Jellys Ferry	266
	Bend Bridge	256
	Red Bluff	241
	Tehama	229
	Vina-Woodson Bridge	218
	Hamilton City	200
	Butte City	168
	Colusa	145
	Tisdale	119
	Knights Landing	83
CLEAR CREEK	Whiskeytown Dam	17
	Igo	10
	Confluence	0

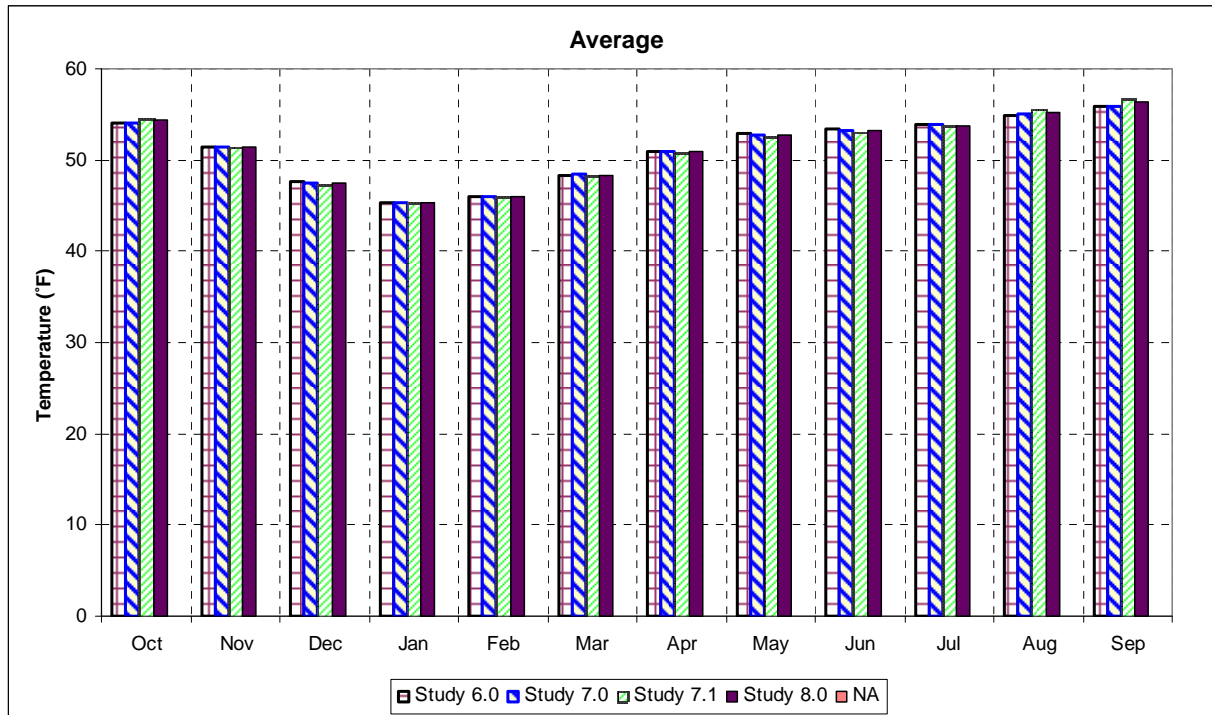


Figure I-1: Sacramento River at Balls Ferry – Average Water Temperature

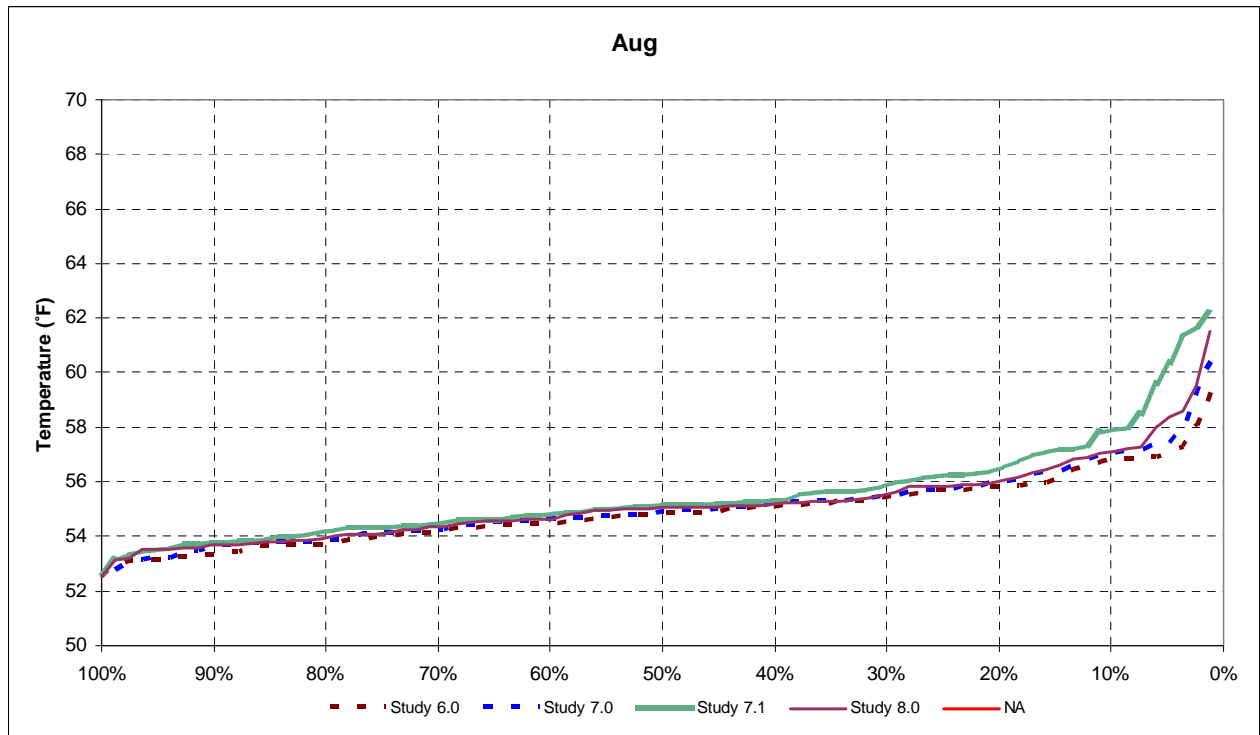


Figure I-2: Sacramento River at Balls Ferry – August Temperature Exceedence

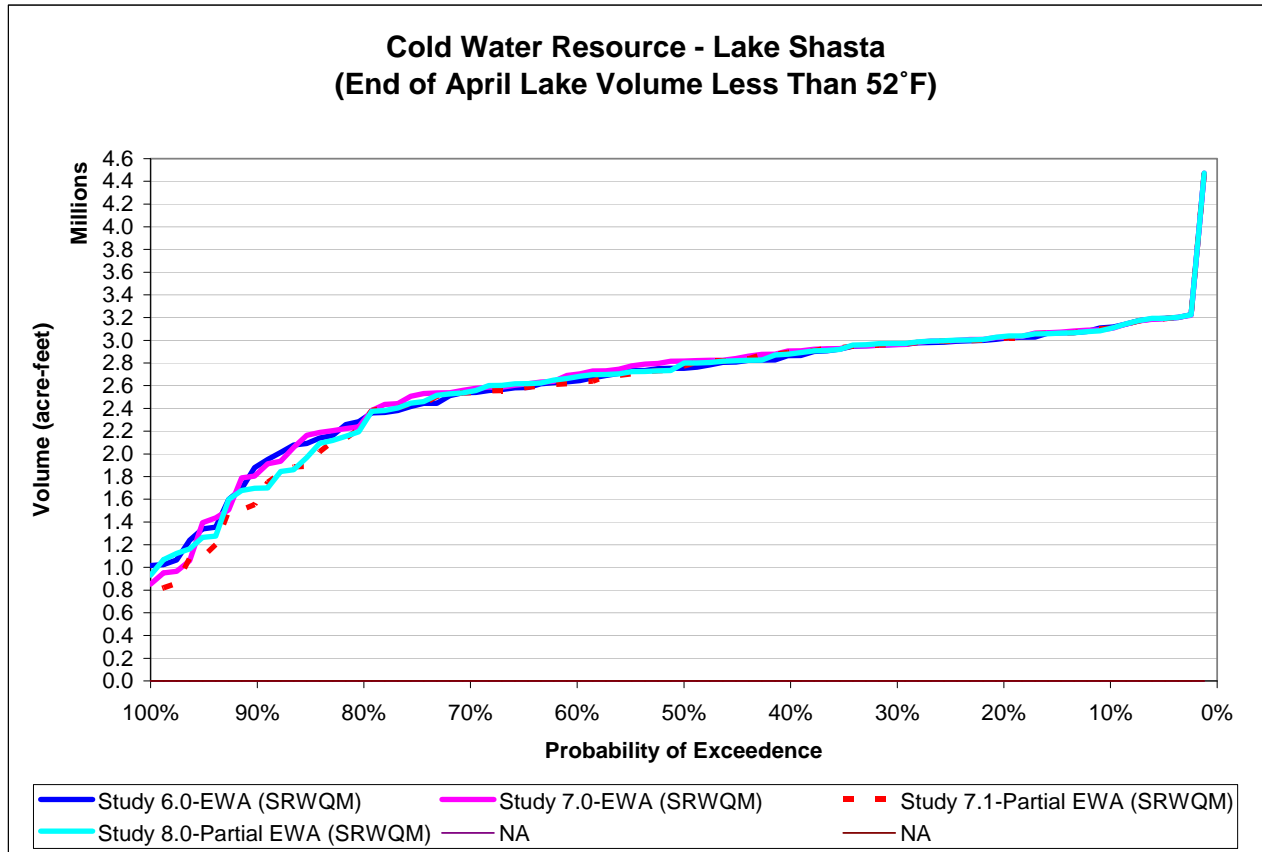


Figure I-3: Lake Shasta Cold Water Resource

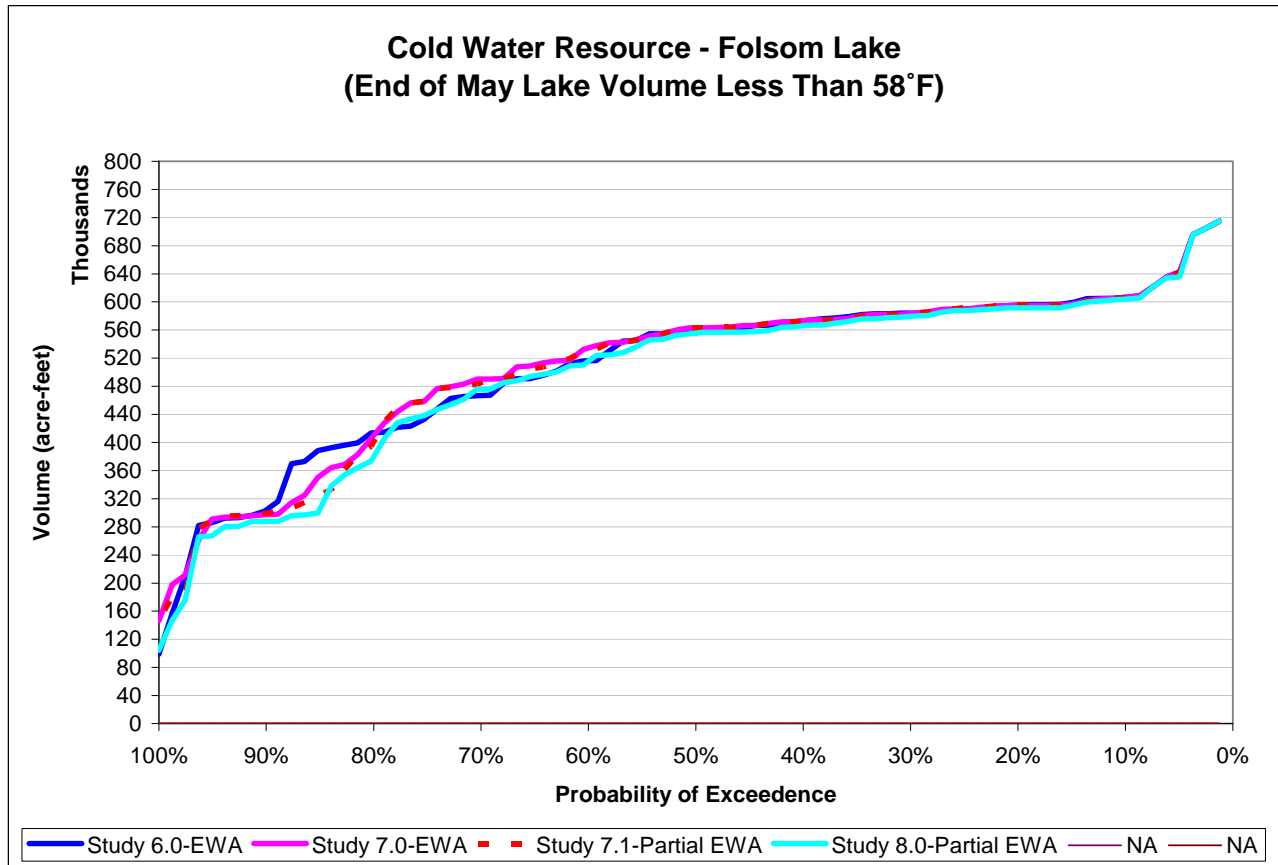


Figure I-4: Folsom Lake Cold Water Resource

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