

## Appendix E CalSim-II Model Results

The CalSim-II results for the June 26, 2008 version, Studies (3a, 6.0, 7.0, 7.1 and 8.0 [defined in Chapter 9: Modeling and Assumptions]) are included as an electronic appendix. The compressed file (Filename: OCAP\_CALSIMOutput\_062608.zip) contains the following files and information:

1. CVP and SWP system operations information.
  - a) **OCAP\_2008\_Deliveries.xls**
    - i) CVP North of Delta (NOD) agriculture (AG)
    - ii) CVP NOD Municipal and Industrial (MI)
    - iii) CVP NOD Settlement Contractors
    - iv) CVP NOD Refuge
    - v) CVP NOD Total
    - vi) CVP SOD AG
    - vii) CVP SOD MI
    - viii) CVP SOD Exchange Contractors
    - ix) CVP SOD Refuge
    - x) CVP SOD Total
    - xi) SWP Table A
    - xii) SWP Article 56
    - xiii) SWP Article 21
    - xiv) SWP Anticipated Carryover in San Luis Reservoir
    - xv) SWP Table A plus Article 56
    - xvi) SWP Table A plus Article 56 and Article 21
  - b) **OCAP\_2008\_DeltaFlowsRegs.xls**
    - i) SWP Banks pumping
    - ii) CVP Banks pumping
    - iii) CVP Jones pumping
    - iv) Total Banks pumping
    - v) Cross Valley Pumping
    - vi) Flow at Freeport
    - vii) Flow at Rio Vista
    - viii) Excess Delta Outflow
    - ix) Required Delta Outflow
    - x) X2 position
    - xi) Yolo Bypass
    - xii) Mokelumne River
    - xiii) San Joaquin River plus Calaveras River flow
    - xiv) Modeled Required Delta Outflow
    - xv) Georgiana Slough
    - xvi) Delta Cross Channel
    - xvii) Below Delta Cross Channel
    - xviii) North Bay Aqueduct

- xix) Contra Costa Water District
  - xx) Total Outflow
  - xxi) Old and Middle River Flow
  - xxii) Qwest
  - xxiii) Total Delta Inflow
  - xxiv) Total Delta Export
- c) **OCAP\_2008\_DeltaFlowsRegs\_percent.xls**
- i) Percent flow at Georgiana Slough
  - ii) Percent flow at Delta Cross Channel
  - iii) Percent flow below Delta Cross Channel
  - iv) EI Ratio
  - v) Total annual Jones and Banks pumping
- d) **OCAP\_2008\_Storage.xls**
- i) Trinity
  - ii) Whiskeytown
  - iii) Shasta
  - iv) Folsom
  - v) Trinity-Shasta-Folsom
  - vi) New Melones
  - vii) CVP San Luis
  - viii) SWP San Luis
  - ix) EWA San Luis
  - x) Total San Luis
- e) **OCAP\_2008\_UpstreamFlows.xls**
- i) Trinity Release
  - ii) Clear Creek Tunnel
  - iii) Clear Creek Release
  - iv) Keswick Release
  - v) Nimbus Release
  - vi) Keswick-Nimbus Release
  - vii) Mouth of the American River
  - viii) Sacramento River below Red Bluff Diversion Dam
  - ix) Sacramento River at Wilkin's Slough
  - x) Sacramento River at Freeport
  - xi) Goodwin Release
  - xii) Stanislaus River mouth
  - xiii) San Joaquin River flow without Stanislaus River
  - xiv) Flow at Vernalis
  - xv) Yolo Bypass
  - xvi) Mokelumne River
  - xvii) Spring Creek Tunnel

- f) **B2 Accounting Existing60\_2008.xls**
- g) **B2 Accounting Existing70\_2008.xls**
- h) **B2 Accounting Existing71\_2008.xls**
- i) **B2 Accounting Future80\_2008.xls**
- j) **EWA\_OCAP\_2008.xls**
- k) **SummaryTables.xls**
- l) **Transfers\_OCAPStudy6.xls**
- m) **Transfers\_OCAPStudy7.xls**
- n) **Transfers\_OCAPStudy71.xls**
- o) **Transfers\_OCAPStudy8.xls**

A similar set of CalSim-II results are also provided in a compressed file for Study 6.1 (Filename: OCAP\_CALSIMOutput\_Study61\_081908.zip).

Examples of CalSim-II model results are shown in Figure 1 and Figure 2.

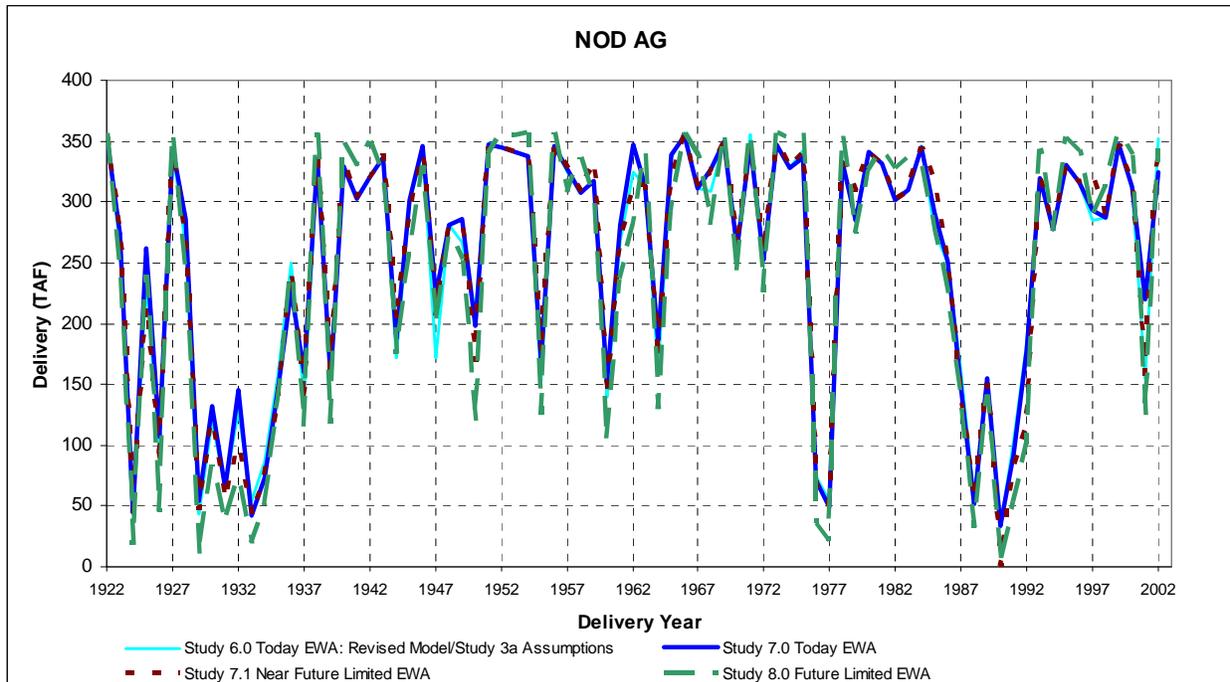
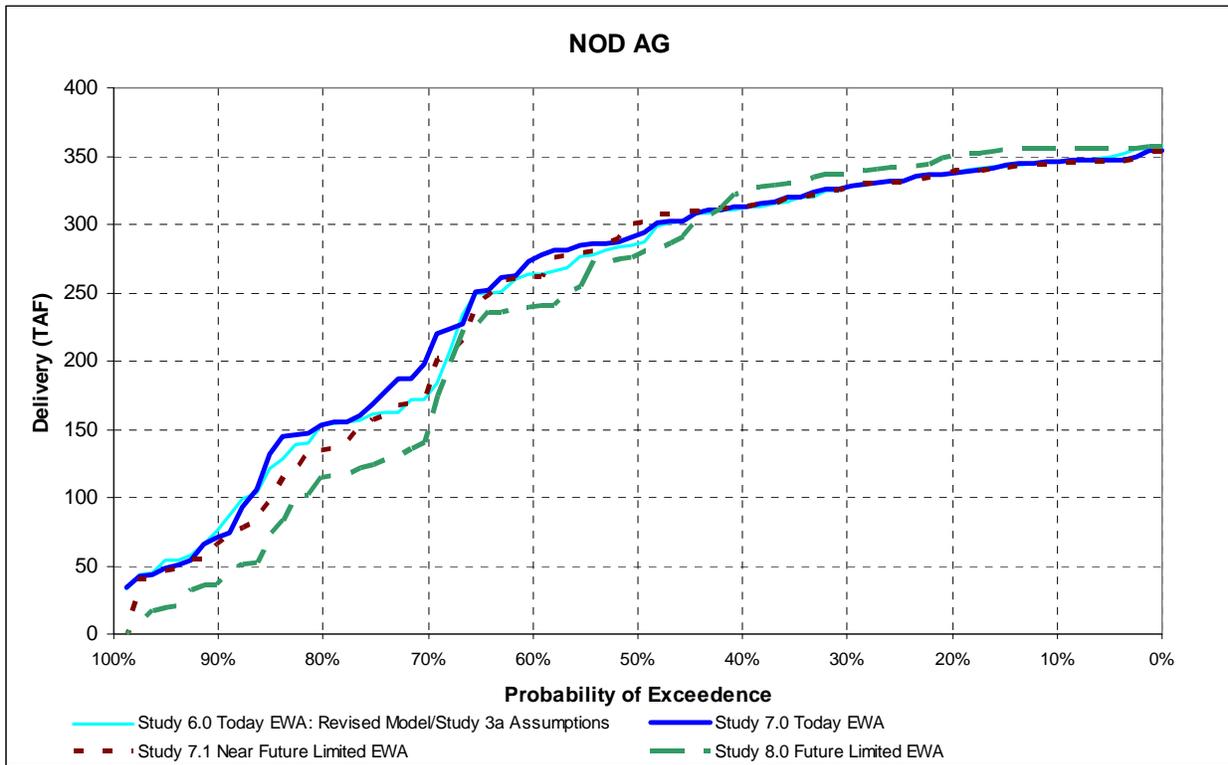


Figure 1. Example of CVP North of Delta Agriculture Delivery time-series plot



**Figure 2 Example of CVP North of Delta Agriculture Delivery probability exceedence plot.**

Modifications to the CalSim-II model from the April 10, 2008 version to the August 16, 2008 version include changes to Study 7.0, Study 7.1 and Study 8.0 in Table 1. Modifications to the CalSim-II Study 6.0 are listed in Table 2.

Table 1 CalSim-II Modification Log to Studies 7.0, 7.1, and 8.0 from April 10, 2008 to August 16, 2008

Update	Directory	Files	Type	7.0	7.1 FRWP- EBMUD Transfer	8.0	Comment
<b>American River Demands</b>							
2005	common/dss	2005A01ASV	DSS	X	X		
2025	""	2020D09ESV	DSS			X	
	all dirs/run/lookup	American_PRJ_WR	table	X	X	X	Made tables consistent with input sheets
<b>B2 Updates</b>							
<b>main files</b>	B2/Run	all mains	wresl				Change B2actions from common to B2 directory
	CONV/Run	all mains	wresl				Take out reference to B2ReserveCap.wresl not necessary in post B2 steps
	TXFR/Run	all mains	wresl				""
	EWA/Run	all mains	wresl				""
	B2/Run/B2Actions	B2Action1	wresl	X	X	X	
	""	B2ReserveCap	wresl	X	X	X	
	""	B2ActionsUpstream	wresl	X	X	X	
	""	B2ActionsDelta	wresl	X	X	X	
	""	B2Action3	wresl	X	X	X	
	""	B2Action4	wresl	X	X	X	
	""	B2Action7	wresl	X	X	X	
	""	B2Action2	wresl	X	X	X	
	""	B2ActionConditions	wresl	X	X	X	
	""	MaxActionCap	wresl	X	X	X	
	""	B2AcctConditionCheck	wresl	X	X	X	
	""	WqcpCost	wresl	X	X	X	
	""	UpdateB2Acct	wresl	X	X	X	
	B2/Run/Lookup	B2ActionRes	table	X	X	X	
	""	AFRP_SAC	table	X	X	X	

Update	Directory	Files	Type	7.0	7.1 FRWP- EBMUD Transfer	8.0	Comment
	B2/Run/BaseStudyRestults	BaseStudyResults	wresl	X	X	X	
	.common\Delta\Ann	ExportEstimate1_B2	wresl	X	X	X	
<b>Rock Slough</b>							
	common\Delta\Ann	RockSlough_constrain	wresl	X	X	X	Check to see if D1485 is different
	all lookups	salinity_std_rsl	table	X	X	X	Check to see if D1485 is different
<b>Rule Curve</b>							
	.common\Rulecurve	cvpdeliv_rulecv	wresl	X	X	X	
	.common\Rulecurve	cvprule	wresl	X	X	X	
	.B2\Run\DeliveryLogic	delcar_cvp_s	wresl	X	X	X	
	.B2\Run\DeliveryLogic	delcar_swap	wresl	X	X	X	
	.common\swp_dellogic\WSI_DI	delcar_swap	wresl	X	X	X	
	.CONV\Run\DeliveryLogic	delcar_swap	wresl	X	X	X	
	.D1485\Run\DeliveryLogic	delcar_swap	wresl	X	X	X	
	.common\swp_dellogic\WSI_DI	di_swap	wresl	X	X	X	
	.common\cvp_dellogic\cvp_dellogic_s\exp_based	exp_based_del_cvp_s	wresl	X	X	X	
	.common\swp_dellogic\WSI_DI	exp_based_del_swap_s	wresl	X	X	X	
	.common\NorthOfDelta\Feather	OroRuleCurv	wresl	X	X	X	
	.common\NorthOfDelta\Feather	OroRuleCurvEWA	wresl	X	X	X	
	.EWA\Run\RuleCurve	RuleCurve	wresl	X	X	X	
	.TXFR\Run\RuleCurve	RuleCurve	wresl	X	X	X	
	.common\Rulecurve	swpdeliv_rulecv	wresl	X	X	X	
	.common\Rulecurve	swprule	wresl	X	X	X	
	.common\NorthOfDelta\Feather	feather_special	wresl	X	X	X	
	.common\NorthOfDelta\Sacramento	ncp_relax	wresl	X	X	X	
	.common\NorthOfDelta\American	HSt_base	wresl	X	X	X	

Update	Directory	Files	Type	7.0	7.1 FRWP- EBMUD Transfer	8.0	Comment
<b>EWA</b>							
	EWA\Run\EwaActions\Purchase	Annual_Purchases	wresl	X			
	EWA\Run\EwaActions\Purchase	EWA_PumpAndDO	wresl	X			
	EWA\Run\EwaActions\Purchase	EWA_PumpAndDOlim	wresl		X	X	
	EWA\Run\EwaActions	EwaActions345lim	wresl		X	X	
	EWA\Run\System\SystemTables_ALL	Weight-table	wresl		X	X	
<b>Red Bluff Diversion Dam</b>							
	common\NorthOfDelta\Sacramento	RedBluffOps	wresl	X	X	X	
<b>Calaveras Demands</b>							
	common\SanJoaquin\Various\definitions	SJR_DeliverySplits	wresl	X	X		Zero D510
<b>X2 Ann</b>							
	common\Delta	DeltaExtFuncs_6inpANN	wresl	X	X	X	DWR developed new code to consider X2 partial month antecedent conditions
	common\Delta\mrdo\X2	X2req_ANN	wresl	X	X	X	
	All Studies..\Run\External	Ann6inp_CA_widerDICU	dll	X	X	X	
<b>Yuba River</b>							
	EWA\Run\EwaActions\Purchase	Annual_Purchases	wresl	X			
	common\dss	all SV files	dss	X	X	X	Update Yuba inflows is all SV files from the Yuba Input for All Runs xls file
<b>CVP Delivery</b>							
	D1485\Run\Lookup	dltidx_expidx_cvp_s	table	X		X	

Update	Directory	Files	Type	7.0	7.1 FRWP- EBMUD Transfer	8.0	Comment
	common\cvp_dellogic\cvp_de llogic_sys\deliveries_sys	cvp_bound_del_sys	wresl	X	X	X	
<b>SWP Delivery Logic</b>							
	CONV\Run\Lookup	TableA	table	X			Corrected
<b>FRWP</b>							
	common\dss	2005A01ASV	DSS		X		Includes Future Mokulme Inflows to Delta and EBMUD demands at FRWP. SCWA demands were left at 15 TAF
<b>CCWD</b>							
	.\common\Los_Vaqueros	LVE_resolve	wresl		X		Deleted
	.\common\Los_Vaqueros	LVE_WQatDiversion	wresl		X		Deleted
	.\common\Los_Vaqueros	LVE_DeltaSurplus_WHEELJPOD	wresl		X		New
	.\common\Los_Vaqueros	LVE_DeltaSurplus_LVE_ADJUST	wresl		X		New
	.\common\Los_Vaqueros	LVE_DeltaSurplus_PREMONWGHT ED	wresl		X		New
	.\common\Los_Vaqueros	LVE_EwaDemand	wresl		X		New
	.\common\Los_Vaqueros	LVE_Switches_Existing	wresl		X		New
	.\common\Los_Vaqueros	LVE_Switches_WPC	wresl		X		New
	.\common\Los_Vaqueros	LVE_Switches_FNA	wresl		X		New
	.\common\Los_Vaqueros	LVE_SBA_DEM	wresl		X		New
	.\EWA\Run	mainEWA1 and m ainEWA2	wresl		X		Modified
	.\TXFR\Run	mainTXFRF	wresl		X		Modified
	.\EWA\Run\EwaActions\Purc hase	LVE_Exchange	wresl		X		Modified
	.\EWA\Run\EwaActions	EwaReIsConstrain1	wresl		X		Modified
	.\EWA\Run\EwaActions\Purc hase	Annual_Purchases	wresl		X		Modified
	.\D1485\Run\COA	coa	wresl		X		Modified
	.\B2\Run\COA	coa	wresl		X		Modified
	.\D1641\Run\COA	coa	wresl		X		Modified

Update	Directory	Files	Type	7.0	7.1 FRWP- EBMUD Transfer	8.0	Comment
	.\CONV\Run\COA	coa	wresl		X		Modified
	.\EWA\Run\COA	coa	wresl		X		Modified
	.\TXFR\Run\COA	coa	wresl		X		Modified
	.\common\Los_Vaqueros	LVE_Switches	wresl		X		Modified
	.\common\Los_Vaqueros	LVE_Parameters	wresl		X		Modified
	.\common\Los_Vaqueros	LVE_Demands	wresl		X		Modified
	.\common\Los_Vaqueros	LVE_OpsMaxDiversion	wresl		X		Modified
	.\common\Los_Vaqueros	LVE_OpsFixEWA	wresl		X		Modified
	.\common\Los_Vaqueros	LVE_DeltaSurplus	wresl		X		Modified
	.\common\Los_Vaqueros	LVE_WQ	wresl		X		Modified
	.\common\Los_Vaqueros	LVE_BlendReservoirWQ	wresl		X		Modified
	.\common\System\SystemTables_LVR	Weight-table	wresl		X		Modified
	.\common\Los_Vaqueros	LVE_EWAOutput	wresl		X		Modified
	.\common\Los_Vaqueros	LVE_DelivBlend_CycleOut	wresl		X		Modified
	.\common\Los_Vaqueros	LVE_BlendDelivWQ	wresl		X		Modified
	.\common\System\SystemTables_LVR	Connectivity-table	wresl		X		Modified
	.\common\System\SystemTables_LVR	Channel-table	wresl		X		Modified
	.\common\Los_Vaqueros	LVE_OpsFixEWApreLVAAdj	wresl		X		Modified
	.\common\Los_Vaqueros	LVE_OpsFixPreJPOD	wresl		X		Modified
	.\common\Los_Vaqueros	LVE_OpsFixStep4	wresl		X		Modified
	.\common\System\SystemTables_LVR	Delivery-table	wresl		X		Modified
	.\common\Los_Vaqueros	LVE_SBA_REL	wresl		X		Modified
	.\common\Los_Vaqueros	LVE	wresl		X		Modified
	.\common\System\SystemTables_LVR	Reservoir-table	wresl		X		Modified
	.\common\Los_Vaqueros	LVE_MaxDivert_CycleOut	wresl		X		Modified
	.\TXFR\Run\Lookup	LVE_demand_pattern	table		X		Modified
	.\EWA\Run\Lookup	LVE_demand_pattern	table		X		Modified
	.\TXFR\Run\Lookup	LVE_WQ_target	table		X		Modified
	.\EWA\Run\Lookup	LVE_WQ_target	table		X		Modified

Update	Directory	Files	Type	7.0	7.1 FRWP- EBMUD Transfer	8.0	Comment
	.\EWA\Run\Lookup	LVE_Estorage	table		X		Modified
	.\TXFR\Run\Lookup	LVE_Estorage	table		X		Modified
	.\TXFR\Run\Lookup	LVE_ann_demand	table		X		Modified
	.\EWA\Run\Lookup	LVE_ann_demand	table		X		Modified
<b>Feather River Hydrology</b>							
	.\common\dss	SV file	dss	X	X	X	Smoothed the Dec-Jan Acc-Dep to cut out huge depletions in Dec and Jan
<b>Oroville Release Operations</b>							
	Transfers_Capacity_Limits	.\common\ReOperations\Transfers	wresl	X	X	X	Modified
<b>Old and Middle River flow calculation</b>							
	\common\Delta	OMR_flow	wresl	X	X	X	Corrected logic error

**Table 2 CalSim-II Modification Log to 6.0 from April 10, 2008 to August 16, 2008**

Update	Directory	Files	Type	6.0	Comment
<b>Feather River Hydrology</b>					
	.\common\dss	SV file	dss	X	Smoothed the Dec-Jan Acc-Dep to cut out huge depletions in Dec and Jan
<b>Rule Curve</b>					
	.\common\Rulecurve	cvpdeliv_rulecv	wresl	X	
	.\common\Rulecurve	cvprule	wresl	X	
	.\B2\Run\DeliveryLogic	delcar_cvp_s	wresl	X	
	.\B2\Run\DeliveryLogic	delcar_swp	wresl	X	
	.\common\swp_dellogic\WSI_DI	delcar_swp	wresl	X	
	.\CONV\Run\DeliveryLogic	delcar_swp	wresl	X	
	.\D1485\Run\DeliveryLogic	delcar_swp	wresl	X	
	.\common\swp_dellogic\WSI_DI	di_swp	wresl	X	

Update	Directory	Files	Type	6.0	Comment
	.\common\cvp_dellogic\cvp_dellogic_s\exp_based	exp_based_del_cvp_s	wresl	X	
	.\common\swp_dellogic\WSI_DI	exp_based_del_swp_s	wresl	X	
	.\common\NorthOfDelta\Feather	OroRuleCurv	wresl	X	
	.\common\NorthOfDelta\Feather	OroRuleCurEWA	wresl	X	
	.\EWA\Run\RuleCurve	RuleCurve	wresl	X	
	.\TXFR\Run\RuleCurve	RuleCurve	wresl	X	
	.\common\Rulecurve	swpdeliv_rulecv	wresl	X	
	.\common\Rulecurve	swprule	wresl	X	
	.\common\NorthOfDelta\Feather	feather_special	wresl	X	
	.\common\NorthOfDelta\Sacramento	ncp_relax	wresl	X	
	.\common\NorthOfDelta\American	HSt_base	wresl	X	
<b>X2 Ann</b>					DWR developed new code to consider X2 partial month antecedent conditions
	common\Delta	DeltaExtFuncs_6inpANN	wresl	X	

Update	Directory	Files	Type	6.0	Comment
	common\Delta\mrdo\X2	X2req_ANN	wresl	X	
	All Studies.\Run\External	Ann6inp_CA_widerDICU	dll	X	
<b>CCWD</b>					
	.\common\Los_Vaqueros	LVE_resolve	wresl	X	Deleted
	.\common\Los_Vaqueros	LVE_WQatDiversion	wresl	X	Deleted
	.\common\Los_Vaqueros	LVE_DeltaSurplus_WHEELJPO D	wresl	X	New
	.\common\Los_Vaqueros	LVE_DeltaSurplus_LVE_ADJU ST	wresl	X	New
	.\common\Los_Vaqueros	LVE_DeltaSurplus_PREMONW GHTED	wresl	X	New
	.\common\Los_Vaqueros	LVE_EwaDemand	wresl	X	New
	.\common\Los_Vaqueros	LVE_Switches_Existing	wresl	X	New
	.\common\Los_Vaqueros	LVE_Switches_WPC	wresl	X	New
	.\common\Los_Vaqueros	LVE_Switches_FNA	wresl	X	New
	.\common\Los_Vaqueros	LVE_SBA_DEM	wresl	X	New

Update	Directory	Files	Type	6.0	Comment
	.\EWA\Run	mainEWA1 and mainEWA2	wresl	X	Modified
	.\TXFR\Run	mainTXFRF	wresl	X	Modified
	.\EWA\Run\EwaActions\Purchase	LVE_Exchange	wresl	X	Modified
	.\EWA\Run\EwaActions	EwaRelsConstrain1	wresl	X	Modified
	.\EWA\Run\EwaActions\Purchase	Annual_Purchases	wresl	X	Modified
	.\D1485\Run\COA	coa	wresl	X	Modified
	.\B2\Run\COA	coa	wresl	X	Modified
	.\D1641\Run\COA	coa	wresl	X	Modified
	.\CONV\Run\COA	coa	wresl	X	Modified
	.\EWA\Run\COA	coa	wresl	X	Modified
	.\TXFR\Run\COA	coa	wresl	X	Modified
	.\common\Los_Vaqueros	LVE_Switches	wresl	X	Modified
	.\common\Los_Vaqueros	LVE_Parameters	wresl	X	Modified
	.\common\Los_Vaqueros	LVE_Demands	wresl	X	Modified

Update	Directory	Files	Type	6.0	Comment
	.\common\Los_Vaqueros	LVE_OpsMaxDiversion	wresl	X	Modified
	.\common\Los_Vaqueros	LVE_OpsFixEWA	wresl	X	Modified
	.\common\Los_Vaqueros	LVE_DeltaSurplus	wresl	X	Modified
	.\common\Los_Vaqueros	LVE_WQ	wresl	X	Modified
	.\common\Los_Vaqueros	LVE_BlendReservoirWQ	wresl	X	Modified
	.\common\System\SystemTables_LVR	Weight-table	wresl	X	Modified
	.\common\Los_Vaqueros	LVE_EWAOutput	wresl	X	Modified
	.\common\Los_Vaqueros	LVE_DelivBlend_CycleOut	wresl	X	Modified
	.\common\Los_Vaqueros	LVE_BlendDelivWQ	wresl	X	Modified
	.\common\System\SystemTables_LVR	Connectivity-table	wresl	X	Modified
	.\common\System\SystemTables_LVR	Channel-table	wresl	X	Modified
	.\common\Los_Vaqueros	LVE_OpsFixEWAprLVAdj	wresl	X	Modified
	.\common\Los_Vaqueros	LVE_OpsFixPreJPOD	wresl	X	Modified
	.\common\Los_Vaqueros	LVE_OpsFixStep4	wresl	X	Modified

Update	Directory	Files	Type	6.0	Comment
	.\common\System\SystemTables_LVR	Delivery-table	wresl	X	Modified
	.\common\Los_Vaqueros	LVE_SBA_REL	wresl	X	Modified
	.\common\Los_Vaqueros	LVE	wresl	X	Modified
	.\common\System\SystemTables_LVR	Reservoir-table	wresl	X	Modified
	.\common\Los_Vaqueros	LVE_MaxDivert_CycleOut	wresl	X	Modified
	.\TXFR\Run\Lookup	LVE_demand_pattern	table	X	Modified
	.\EWA\Run\Lookup	LVE_demand_pattern	table	X	Modified
	.\TXFR\Run\Lookup	LVE_WQ_target	table	X	Modified
	.\EWA\Run\Lookup	LVE_WQ_target	table	X	Modified
	.\EWA\Run\Lookup	LVE_Estorage	table	X	Modified
	.\TXFR\Run\Lookup	LVE_Estorage	table	X	Modified
	.\TXFR\Run\Lookup	LVE_ann_demand	table	X	Modified
	.\EWA\Run\Lookup	LVE_ann_demand	table	X	Modified
	.\common\DSS	CCWD_CS_INIT	SV	X	Modified

Update	Directory	Files	Type	6.0	Comment
	.common\DSS	CCWD_CVPAllocDV_Z5	SV	X	Modified
	.common\DSS	D420_Z5	SV	X	Modified
<b>SWP deliveries in the EWA and TXFR steps</b>					
	.\TXFR\Run\Lookup	swp_carryover	table	X	Modified
	.\TXFR\Run\Lookup	salinity_std_rsl	table	X	Modified
	.\TXFR\Run\Lookup	salinity_std_rsl	table	X	Modified
	American_PRJ_WR	.\EWA\Run\Lookup	table	X	Modified
	American_PRJ_WR	.\TXFR\Run\Lookup	table	X	Modified
	swprule	.\B2\Run\Lookup	table	X	Modified
	swprule	.\CONV\Run\Lookup	table	X	Modified
	swprule	.\D1485\Run\Lookup	table	X	Modified
	swprule	.\D1641\Run\Lookup	table	X	Modified
	AnnualReqDel_swp	.\EWA\Run\Lookup	table	X	Modified

Update	Directory	Files	Type	6.0	Comment
	AnnualReqDel_swp	.\TXFR\Run\Lookup	table	X	Modified
	TableA	.\TXFR\Run\Lookup	table	X	Modified
	TableA	.\TXFR\Run\Lookup	table	X	Modified
	swp_3pattern_demands	.\TXFR\Run\Lookup	table	X	Modified
	swp_3pattern_demands	.\EWA\Run\Lookup	table	X	Modified
	swp_3_tablea	.\TXFR\Run\Lookup	table	X	Modified
	swp_3_tablea	.\EWA\Run\Lookup	table	X	Modified
	swp_table_a table	.\EWA\Run\Lookup	table	X	Modified
	swp_table_a table	.\TXFR\Run\Lookup	table	X	Modified
	swp_carryover	.\EWA\Run\Lookup	table	X	Modified
	swp_3pattern_SLRule	.\EWA\Run\Lookup	table	X	Modified
	swp_3pattern_SLRule	.\TXFR\Run\Lookup	table	X	Modified
	CAM_SWPDem	.\TXFR\Run\Lookup	table	X	Modified
	CAM_SWPDem	.\EWA\Run\Lookup	table	X	Modified

Update	Directory	Files	Type	6.0	Comment
Old and Middle River flow calculation	\common\Delta	OMR_flow	wresl	X	Corrected logic error