Information Report **March 2002**

Sacramento and San Joaquin River Basins

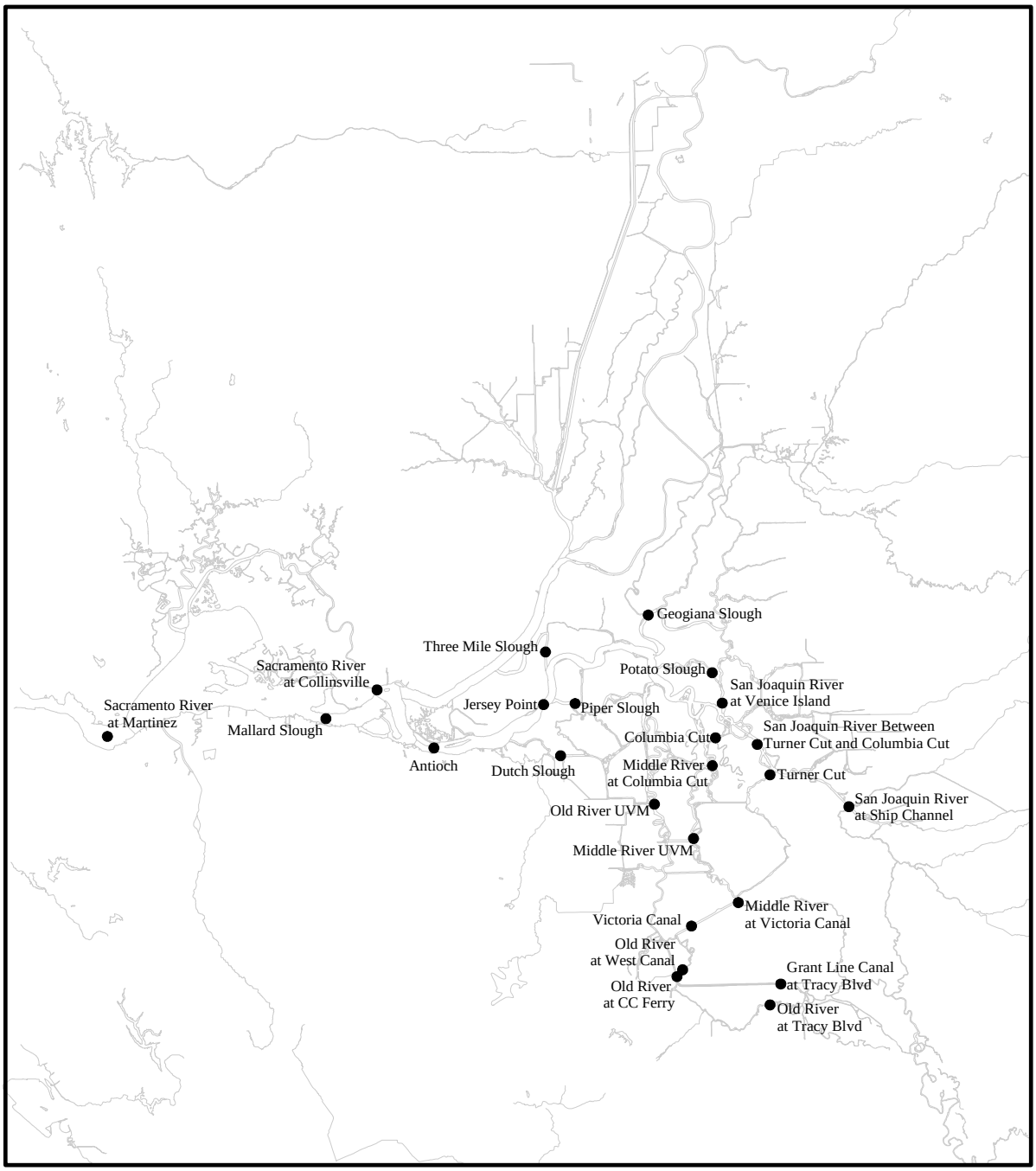
Comprehensive Study

Existing Hydrodynamic Conditions in the Delta During Floods
Appendix C – Summary of DSM2 Simulation Results for Comprehensive Study Baseline Conditions

THE RECLAMATION BOARD
PUBLIC SAFETY
WITH FLOOD PROTECTION
STATE OF CALIFORNIA

US Army Corps of Engineers
Sacramento District

DSM2 REPORTING LOCATIONS



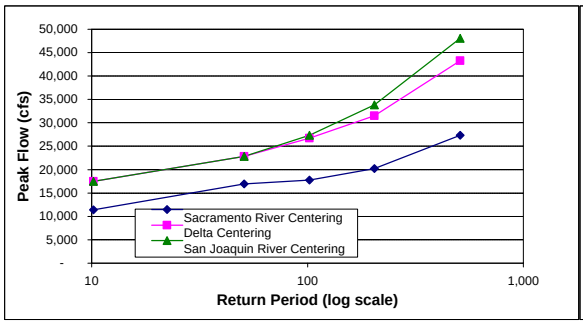
Grant Line Canal at Tracy Blvd

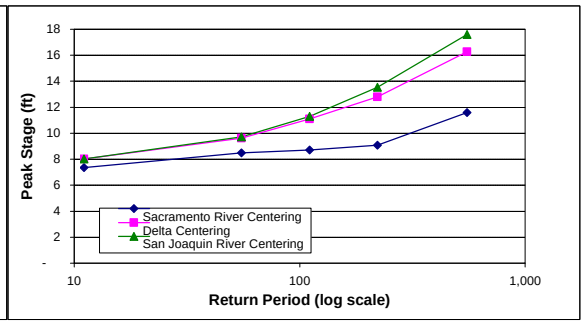
Station Name: CHGRL009
Flow Boundary Node: Yes (Stage Information may not be reliable.)
Stage Boundary Node: No
Result Summary
Flood Peaks
Hydrographs

Flood Peaks

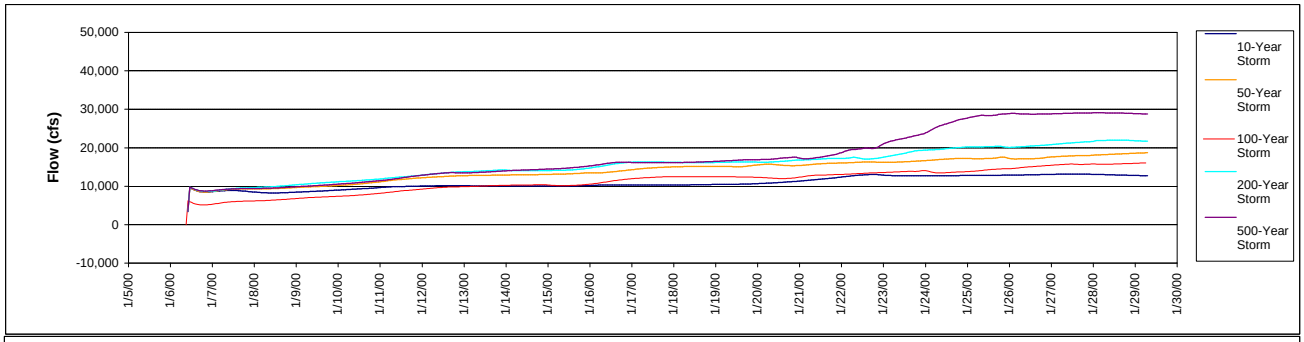
Return Period (yrs)	Storm Centering					
	Sacramento River		Delta		San Joaquin River	
	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)
10	9,724	6.8	15,768	7.4	15,771	7.4
50	15,286	7.9	21,106	9.0	21,135	9.1
100	16,084	8.1	25,016	10.5	25,640	10.7
200	18,541	8.5	29,824	12.2	32,145	12.9
500	25,664	11.0	41,555	15.7	46,377	17.0

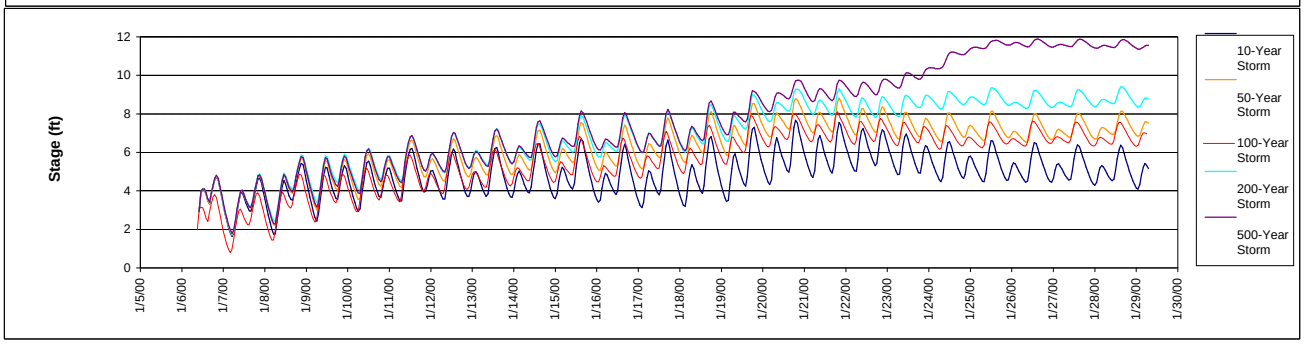
* Peak flow and peak stage may occur at different time.



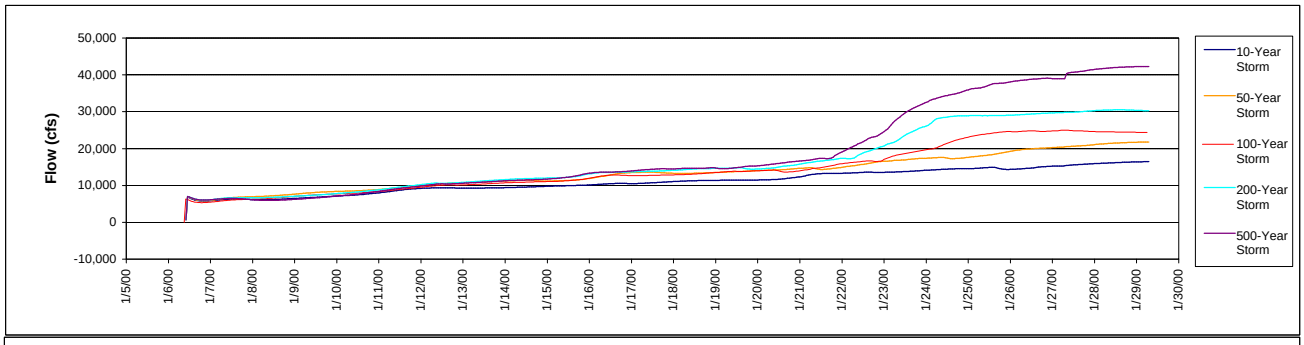


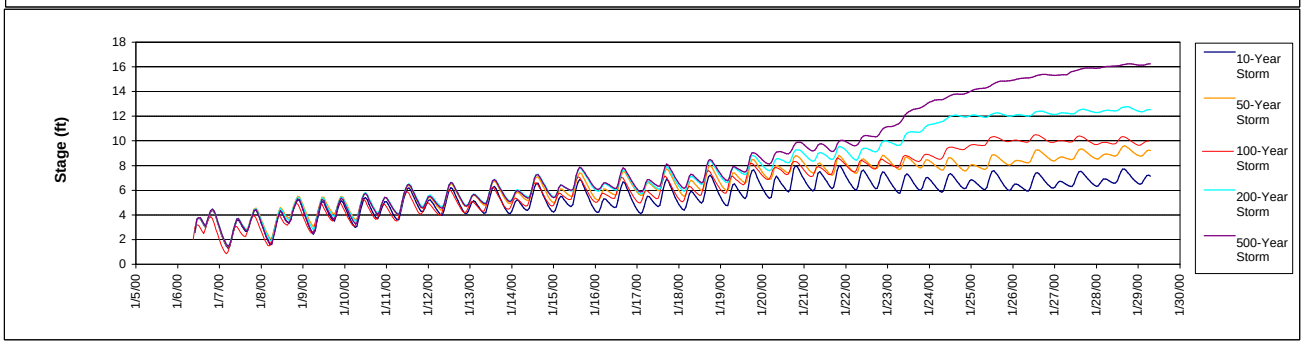
Hydrographs: Sacramento River Centering



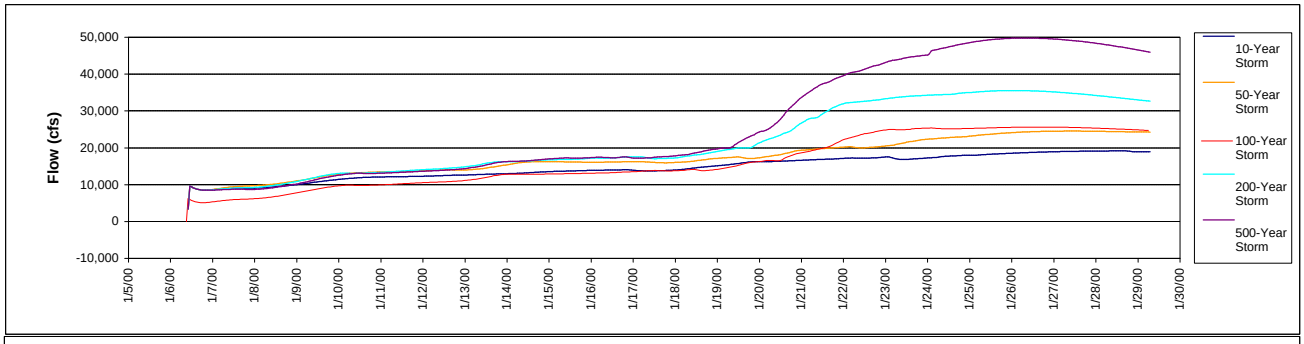


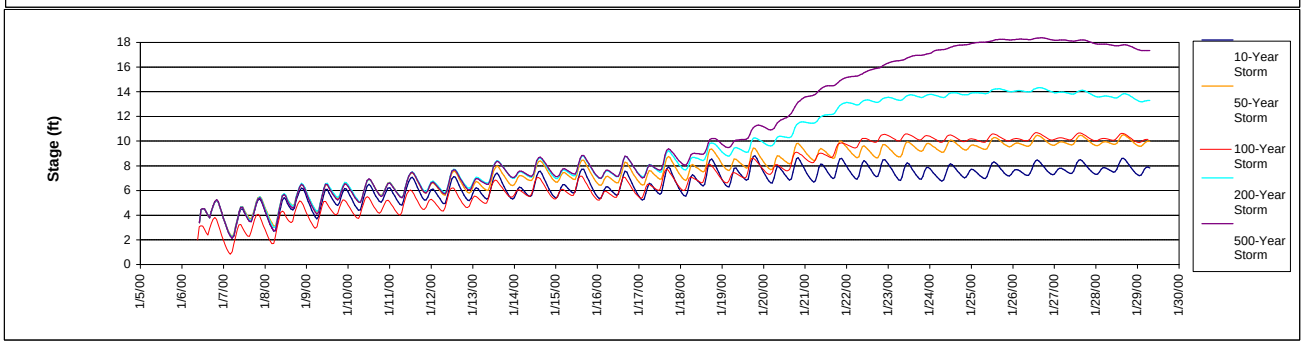
Hydrographs: Delta Centering





Hydrographs: San Joaquin River Centering





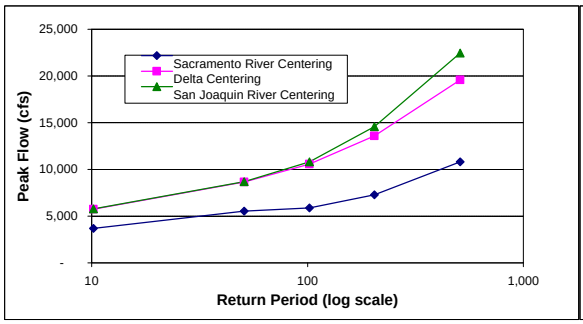
Old River at Tracy Blvd

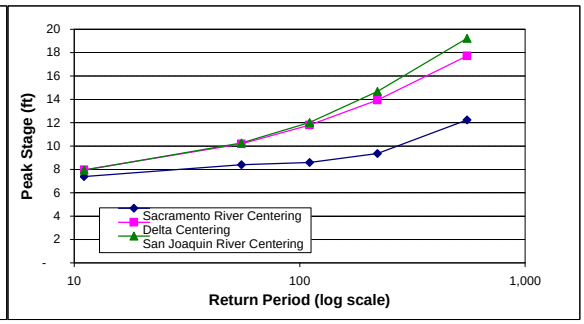
Station Name: ROLD059
Flow Boundary Node: Yes (Stage Information may not be reliable.)
Stage Boundary Node: No
Result Summary
Flood Peaks
Hydrographs

Flood Peaks

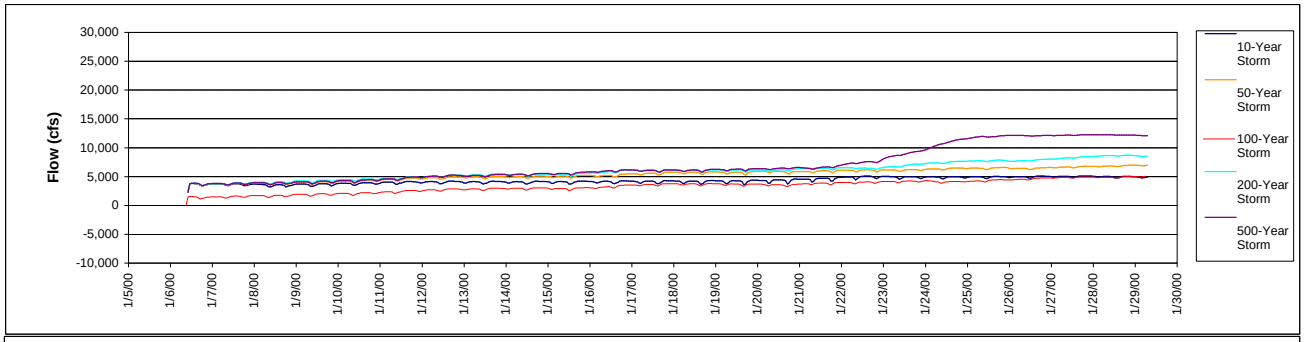
Return Period (yrs)	Storm Centering					
	Sacramento River		Delta		San Joaquin River	
	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)
10	2,834	6.7	4,893	7.3	4,930	7.3
50	4,699	7.7	7,797	9.5	7,851	9.6
100	5,051	7.9	9,714	11.1	9,980	11.4
200	6,426	8.7	12,729	13.3	13,720	14.0
500	9,981	11.6	18,726	17.0	21,621	18.6

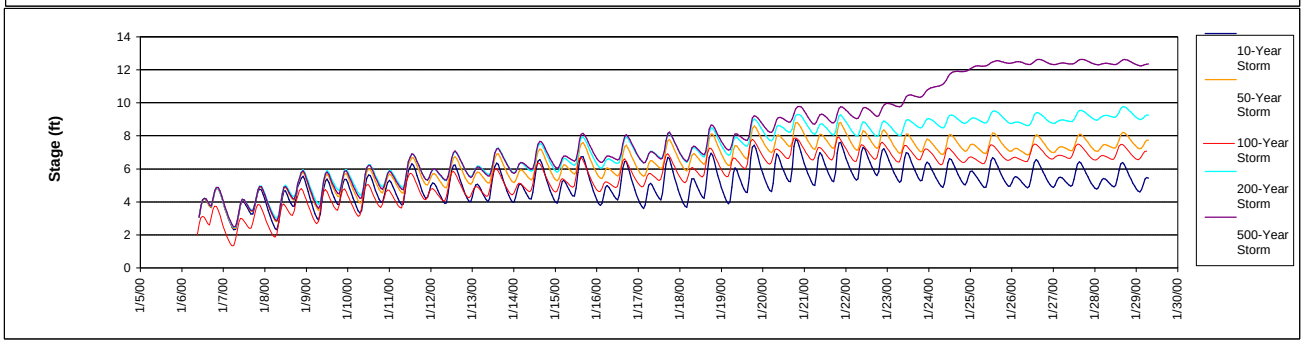
* Peak flow and peak stage may occur at different time.



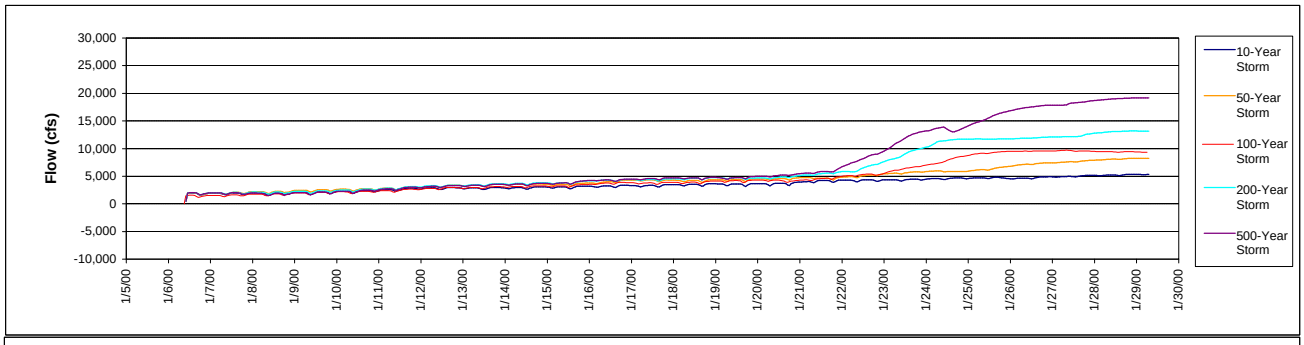


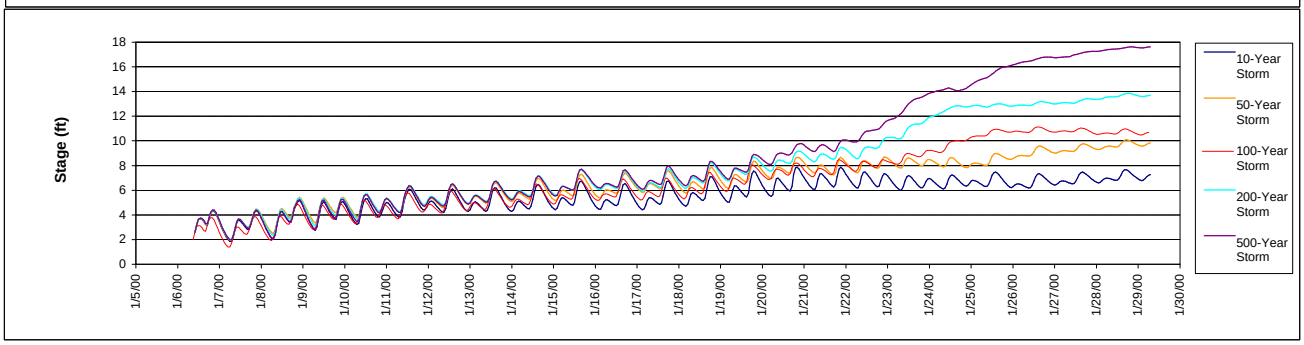
Hydrographs: Sacramento River Centering



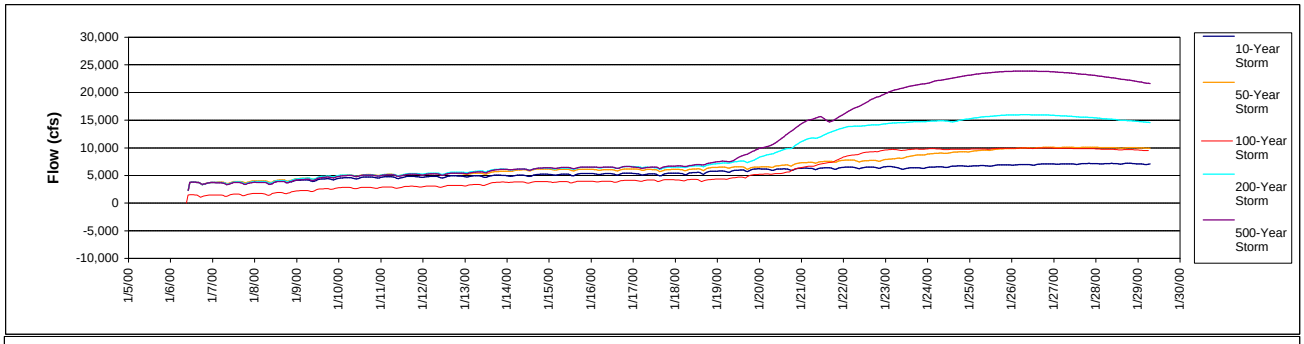


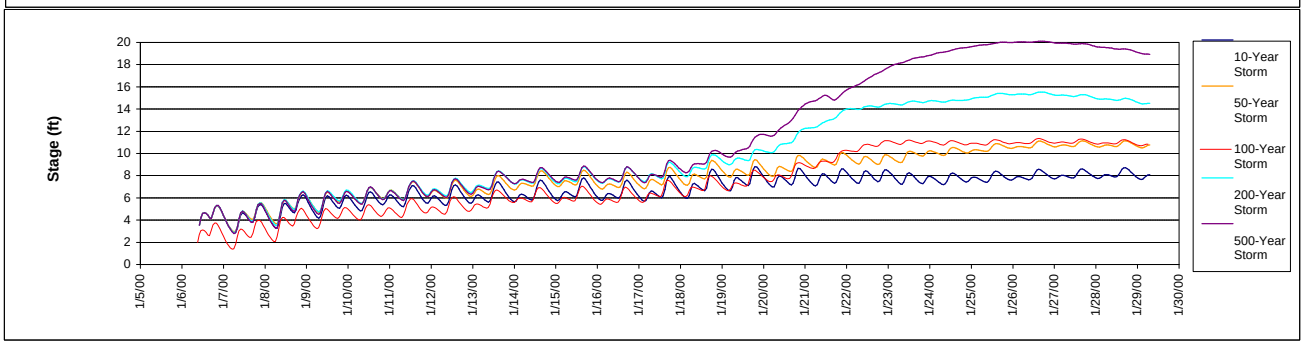
Hydrographs: Delta Centering





Hydrographs: San Joaquin River Centering





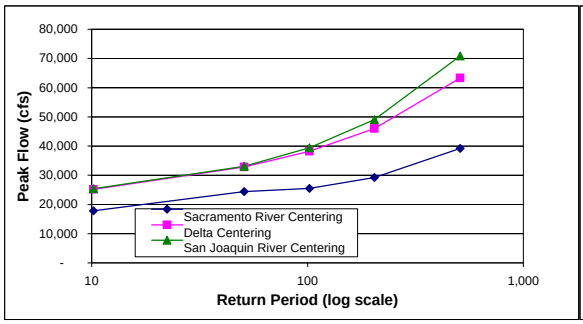
Old River at Clifton Court Ferry

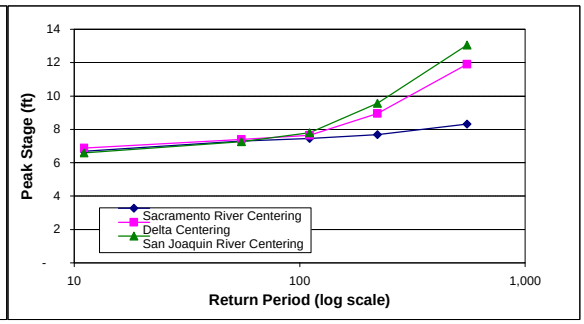
Station Name: ROLD040
Flow Boundary Node: No
Stage Boundary Node: No
Result Summary
Flood Peaks
Hydrographs

Flood Peaks

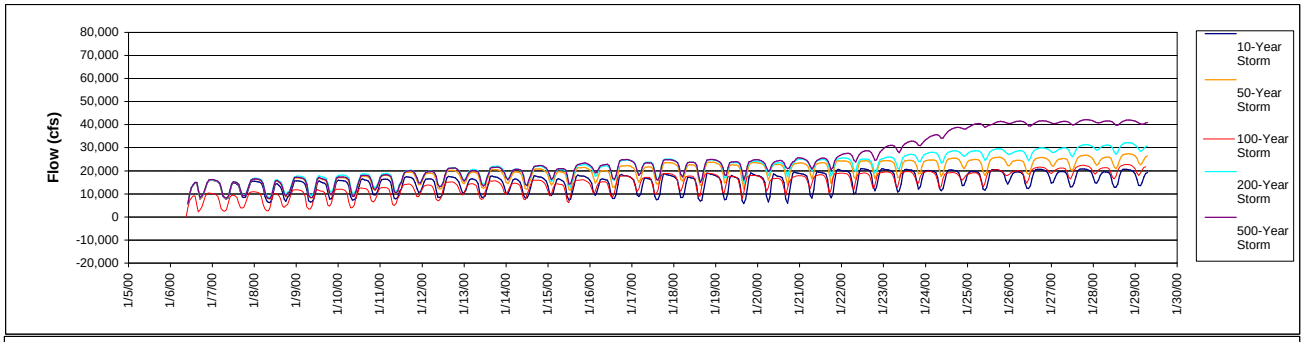
Return Period (yrs)	Storm Centering					
	Sacramento River		Delta		San Joaquin River	
	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)
10	15,169	6.2	22,432	6.4	22,666	6.1
50	21,713	6.8	30,134	6.9	30,321	6.8
100	22,753	7.0	35,498	7.2	36,669	7.3
200	26,525	7.2	43,304	8.5	46,331	9.1
500	36,451	7.8	60,561	11.4	68,197	12.6

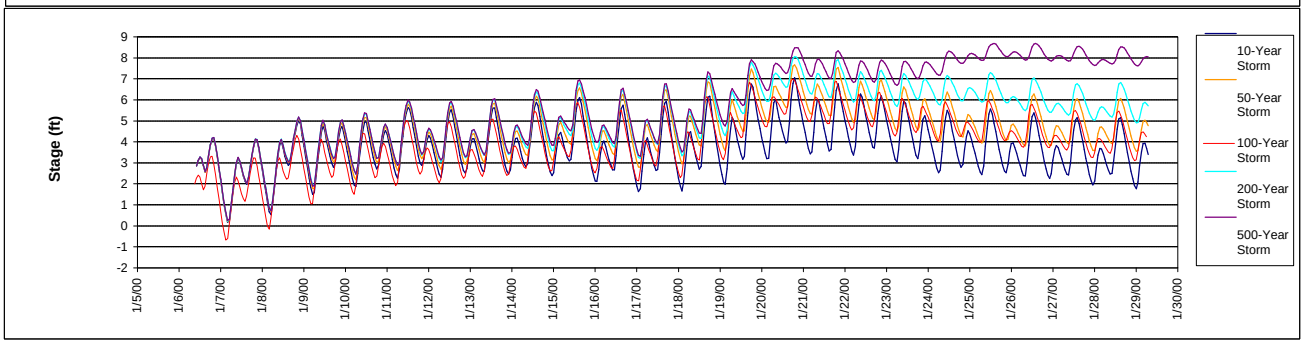
* Peak flow and peak stage may occur at different time.



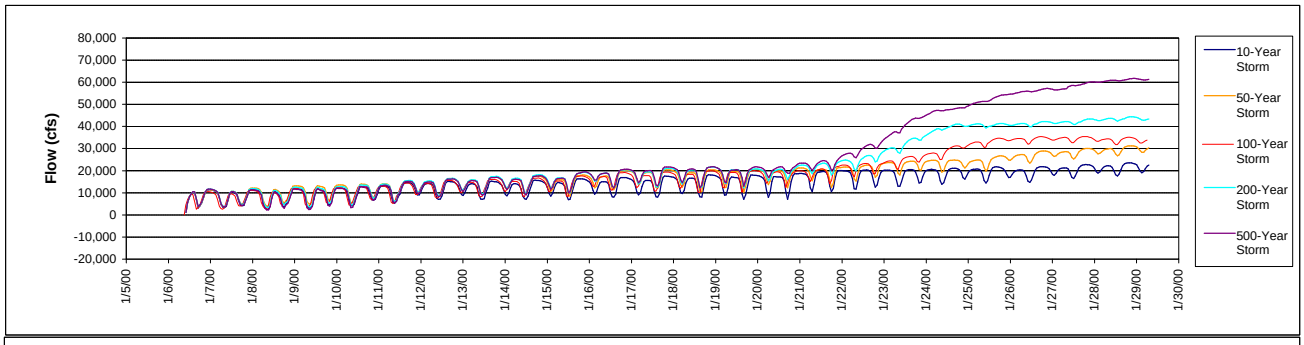


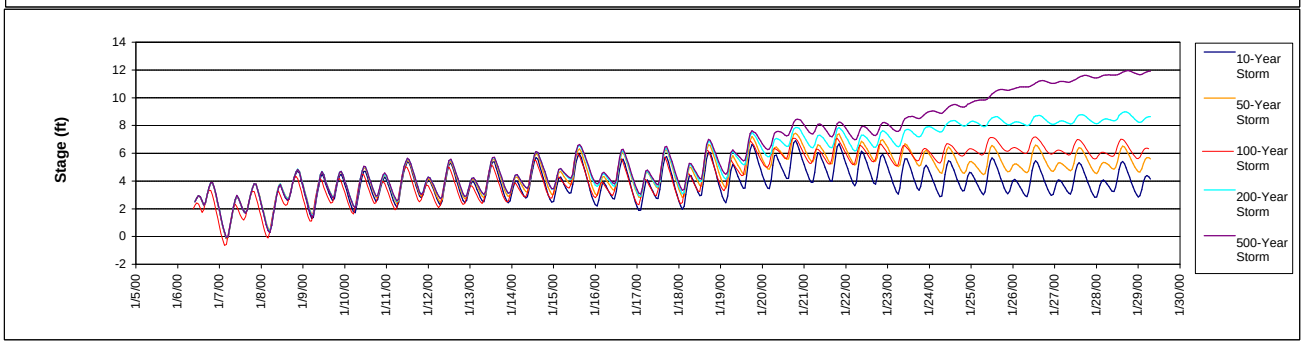
Hydrographs: Sacramento River Centering



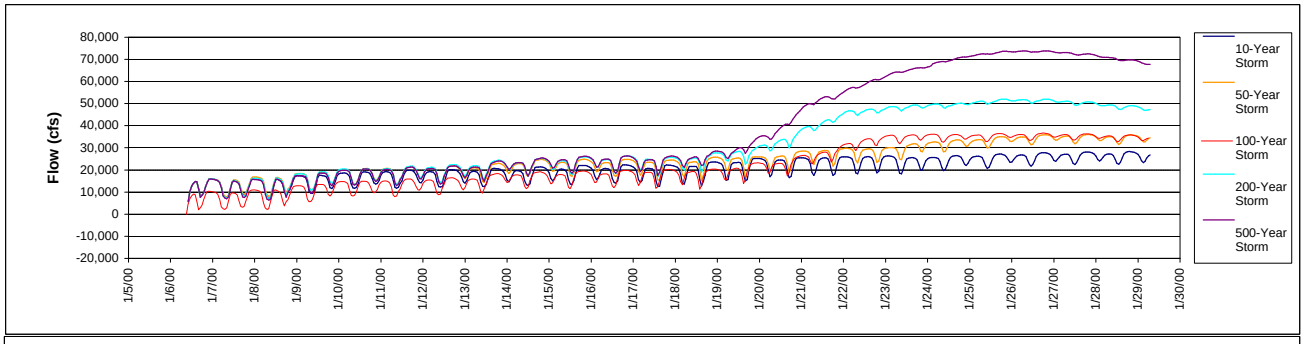


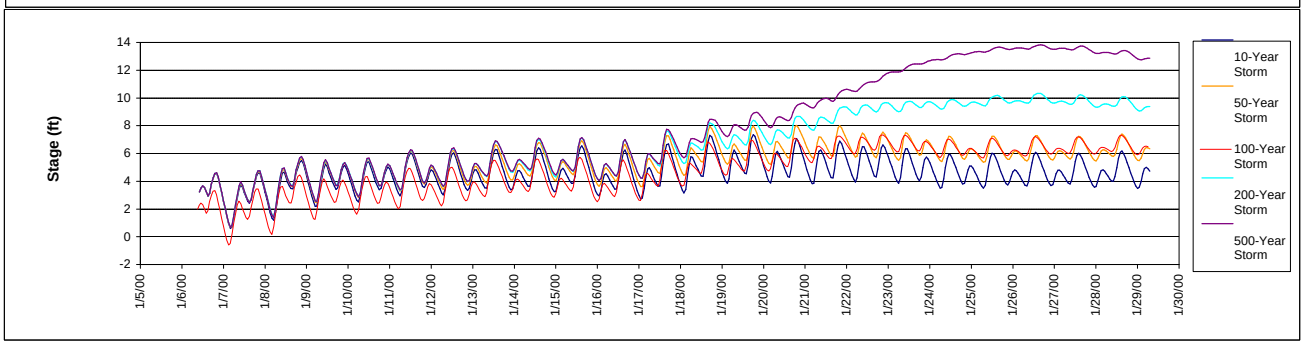
Hydrographs: Delta Centering





Hydrographs: San Joaquin River Centering





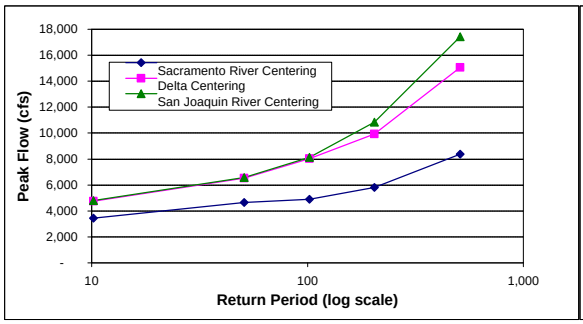
Old River at West Canal

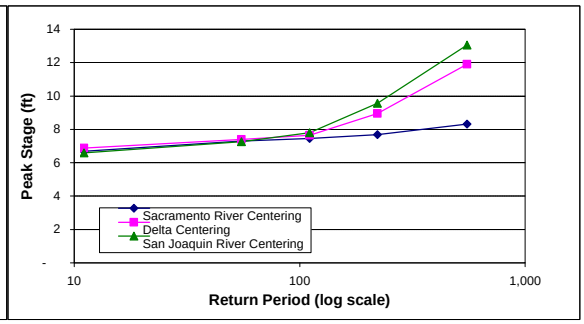
Station Name: NORKI217
Flow Boundary Node: No
Stage Boundary Node: No
Result Summary
Flood Peaks
Hydrographs

Flood Peaks

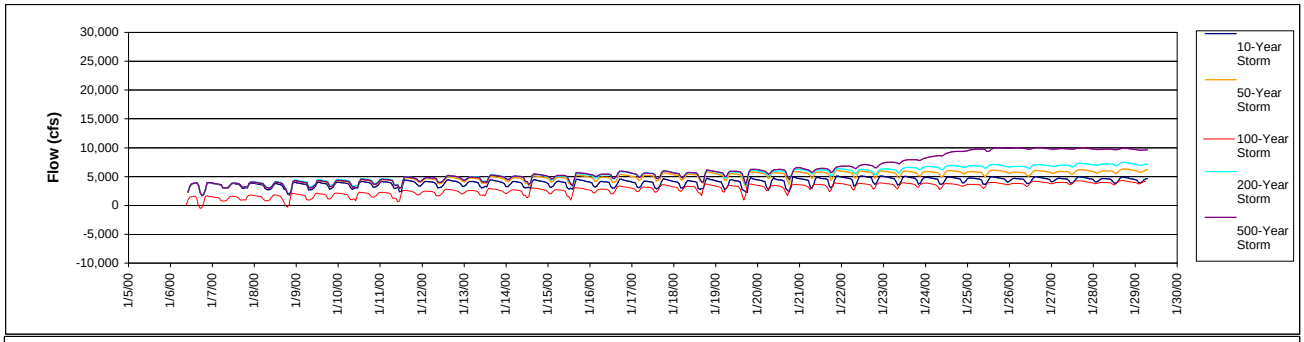
Return Period (yrs)	Storm Centering					
	Sacramento River		Delta		San Joaquin River	
	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)
10	2,839	6.2	4,142	6.4	4,203	6.1
50	4,053	6.8	5,913	6.9	5,975	6.8
100	4,301	7.0	7,434	7.2	7,517	7.3
200	5,203	7.2	9,328	8.5	10,222	9.1
500	7,756	7.8	14,451	11.4	16,825	12.6

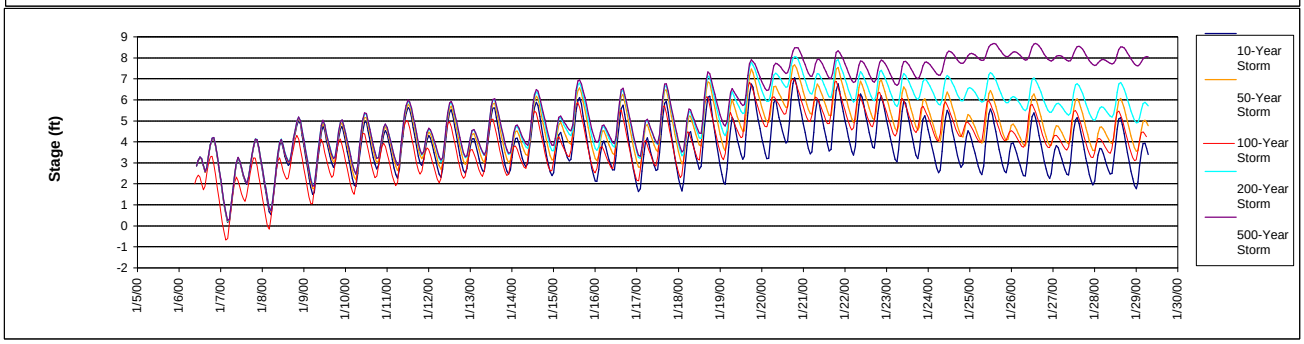
* Peak flow and peak stage may occur at different time.



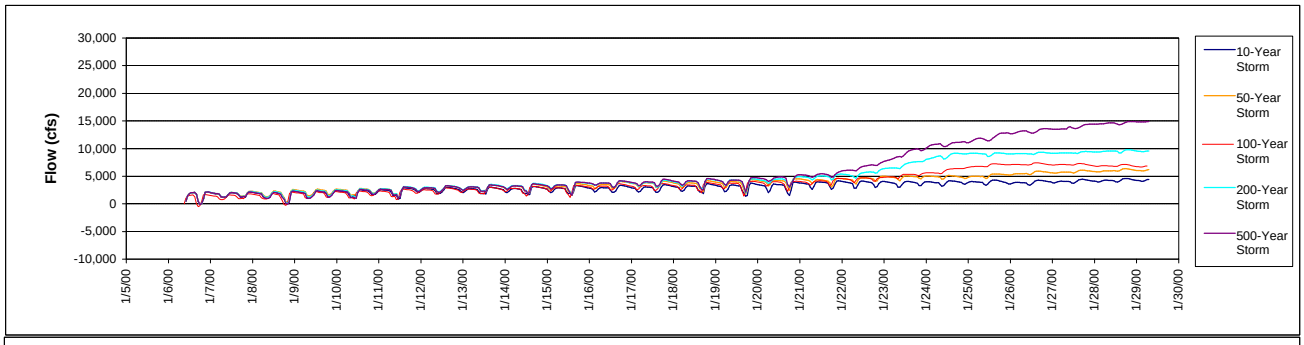


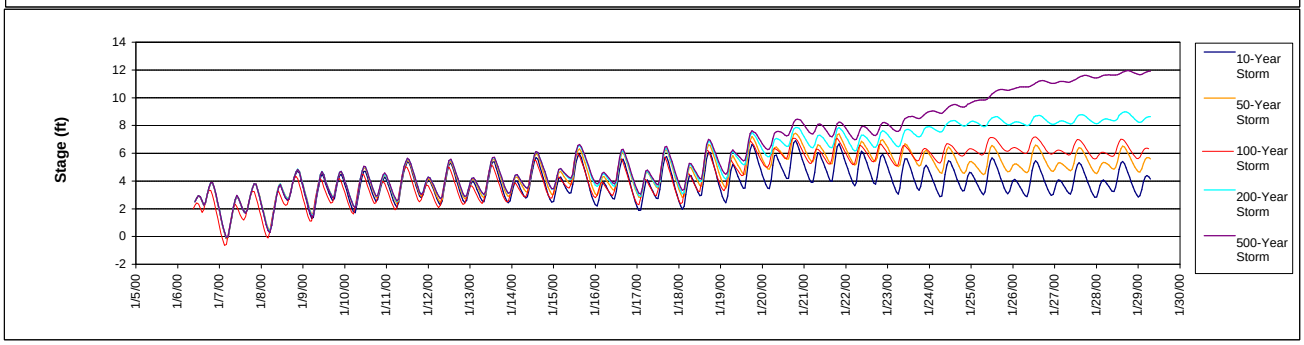
Hydrographs: Sacramento River Centering



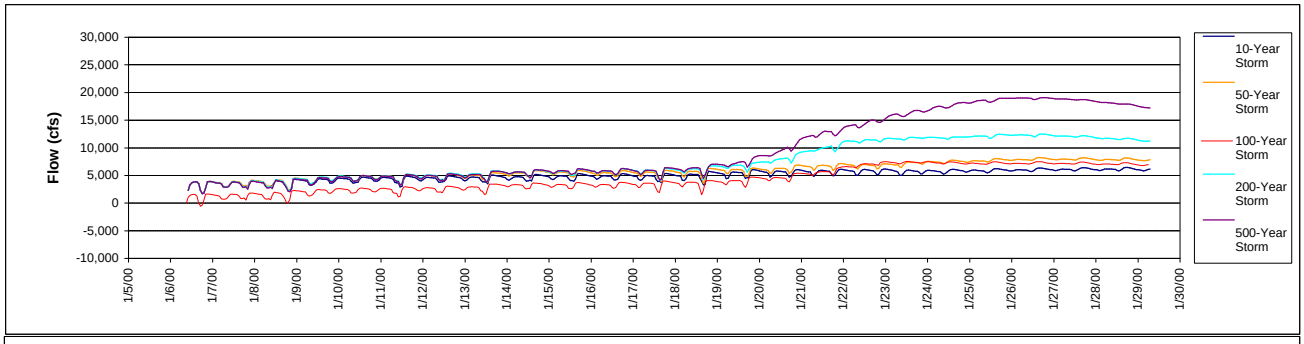


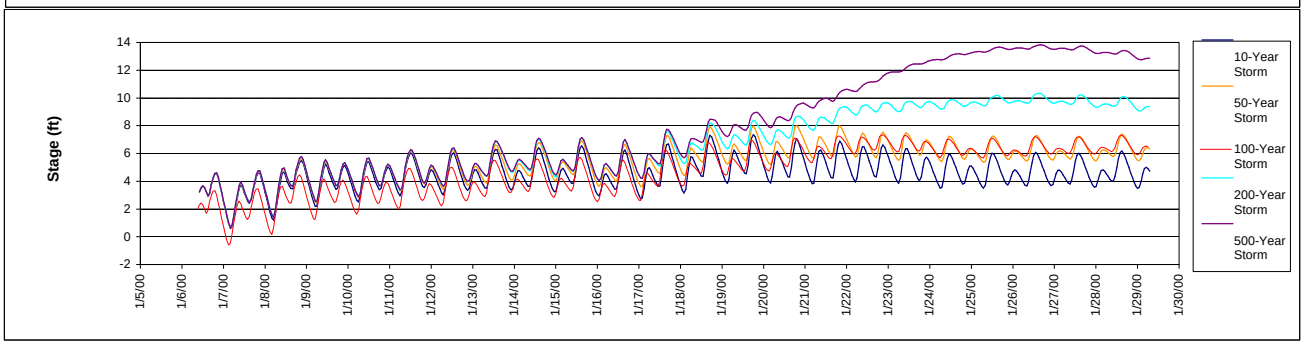
Hydrographs: Delta Centering





Hydrographs: San Joaquin River Centering





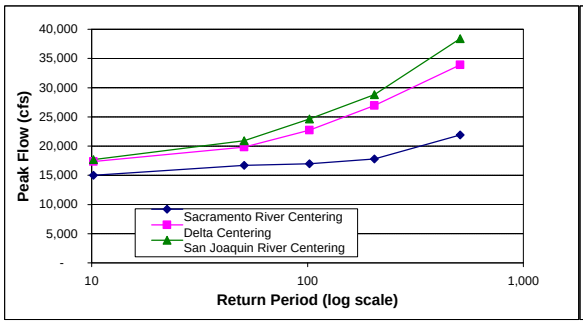
Old River UVM

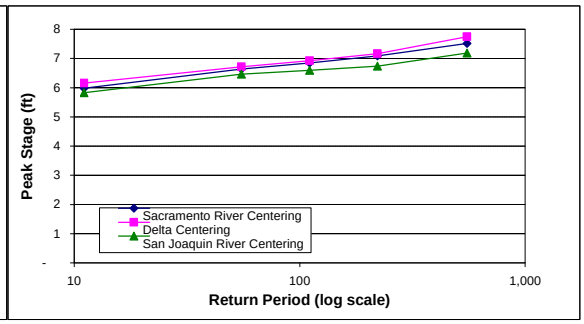
Station Name: ROLD024
Flow Boundary Node: No
Stage Boundary Node: No
Result Summary
Flood Peaks
Hydrographs

Flood Peaks

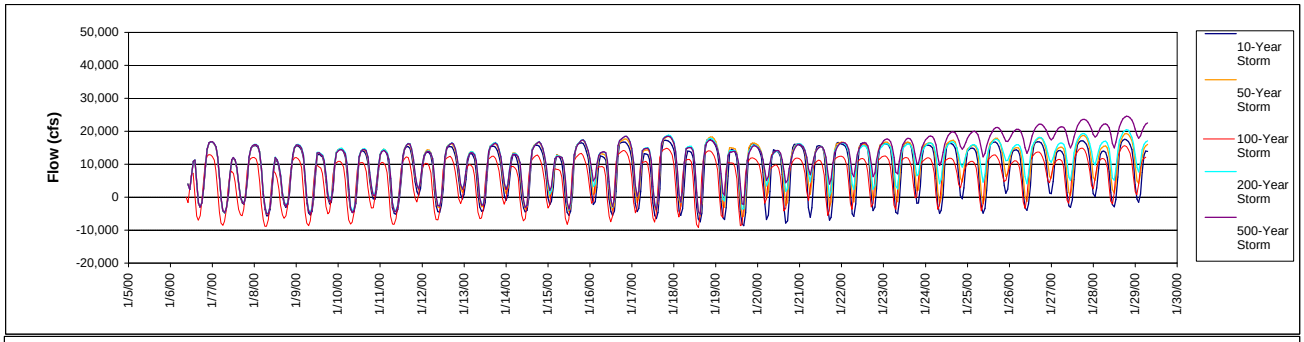
Return Period (yrs)	Storm Centering					
	Sacramento River		Delta		San Joaquin River	
	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)
10	13,639	5.7	16,023	5.9	16,340	5.6
50	15,339	6.4	18,482	6.4	19,541	6.2
100	15,600	6.6	21,360	6.7	23,280	6.3
200	16,457	6.8	25,604	6.9	27,457	6.5
500	20,571	7.2	32,569	7.5	37,038	6.9

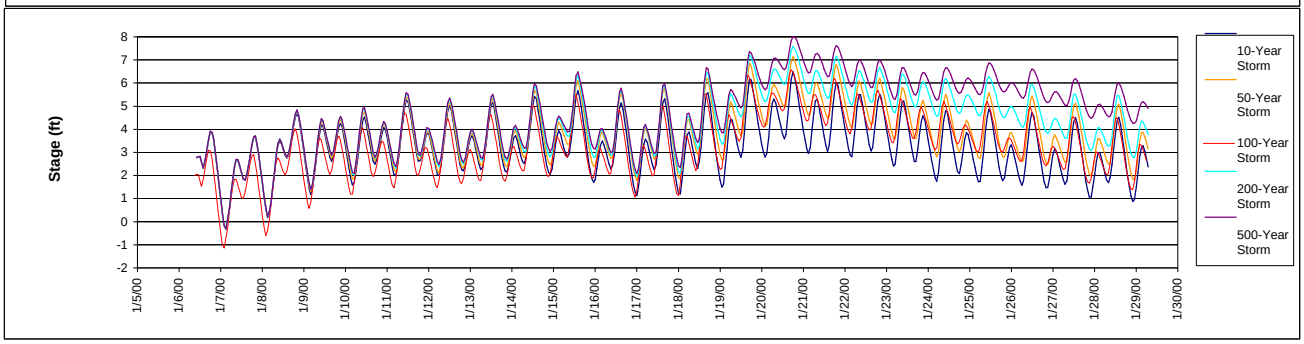
* Peak flow and peak stage may occur at different time.



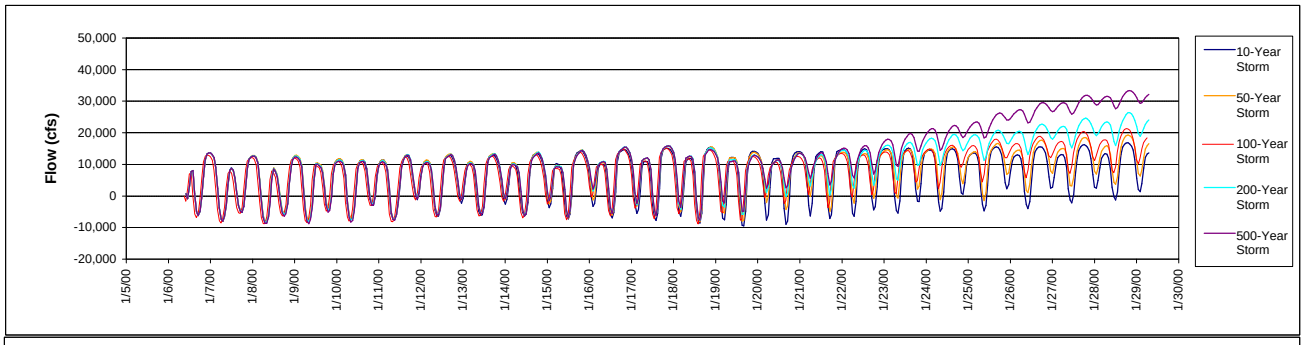


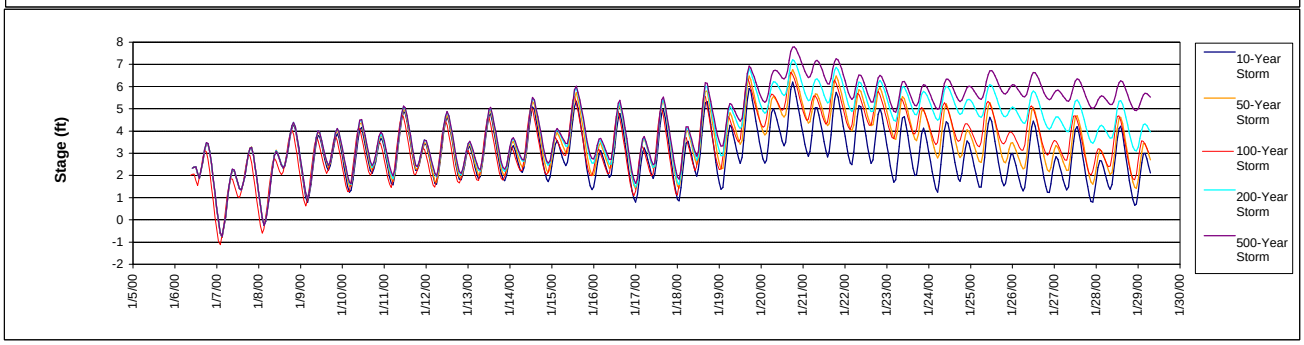
Hydrographs: Sacramento River Centering



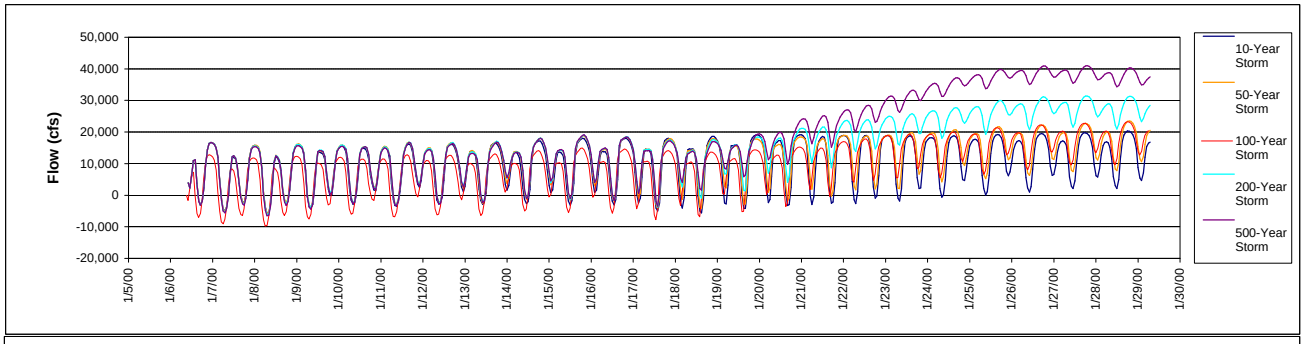


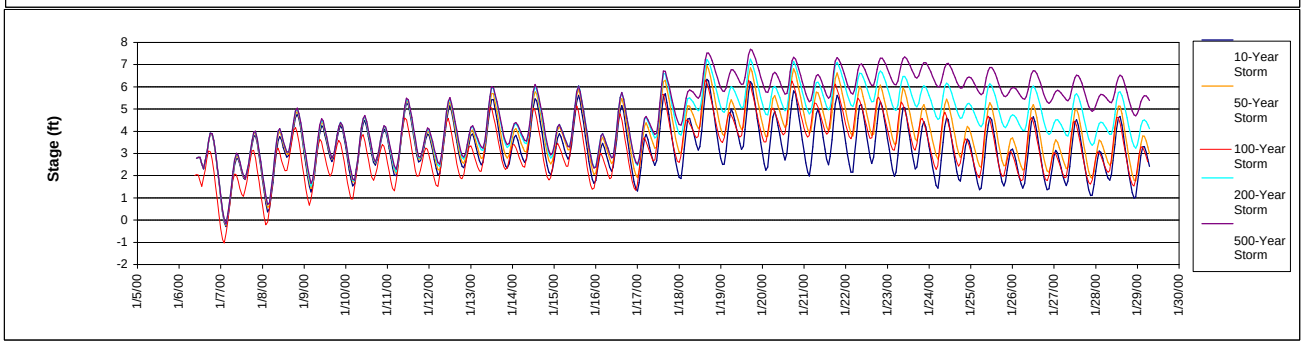
Hydrographs: Delta Centering





Hydrographs: San Joaquin River Centering





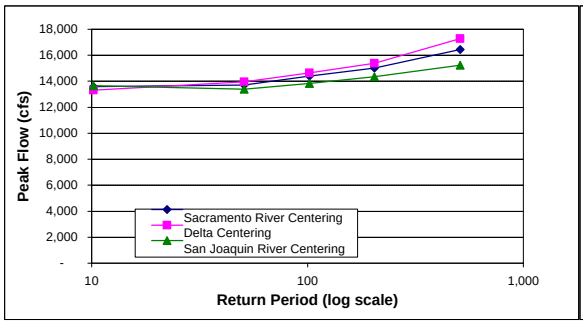
Dutch Slough

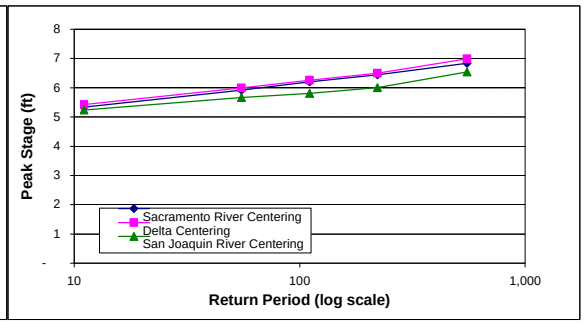
Station Name: SLDUT007
Flow Boundary Node: No
Stage Boundary Node: No
Result Summary
Flood Peaks
Hydrographs

Flood Peaks

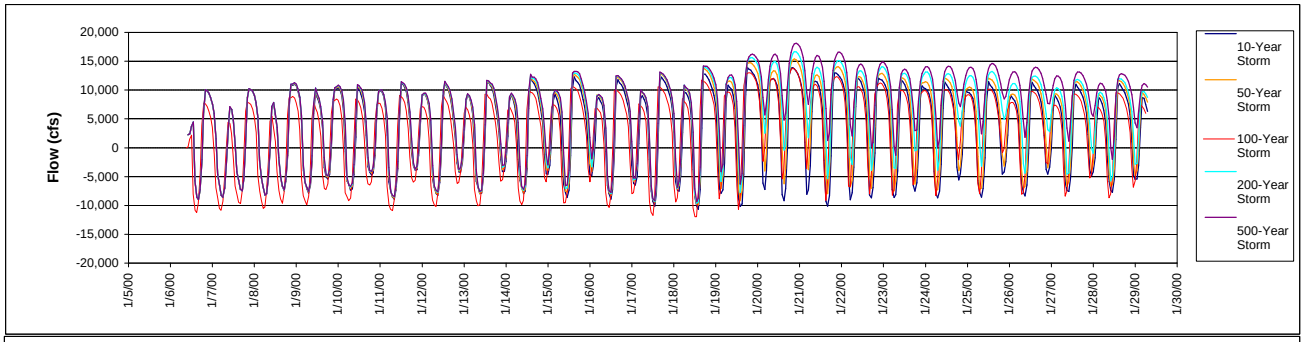
Return Period (yrs)	Storm Centering					
	Sacramento River		Delta		San Joaquin River	
	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)
10	12,971	5.1	12,697	5.2	13,061	5.0
50	13,110	5.7	13,344	5.7	12,782	5.4
100	13,790	5.9	14,041	6.0	13,220	5.5
200	14,414	6.2	14,773	6.2	13,746	5.7
500	15,823	6.6	16,660	6.7	14,630	6.3

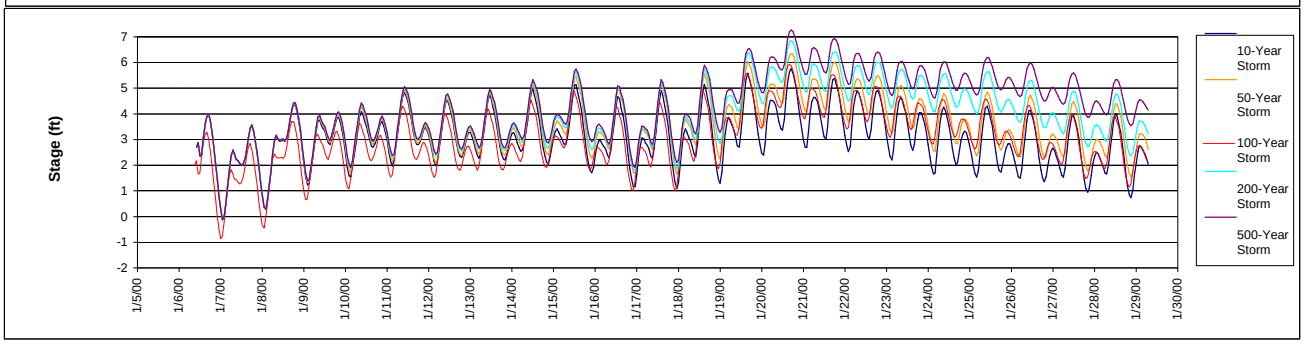
* Peak flow and peak stage may occur at different time.



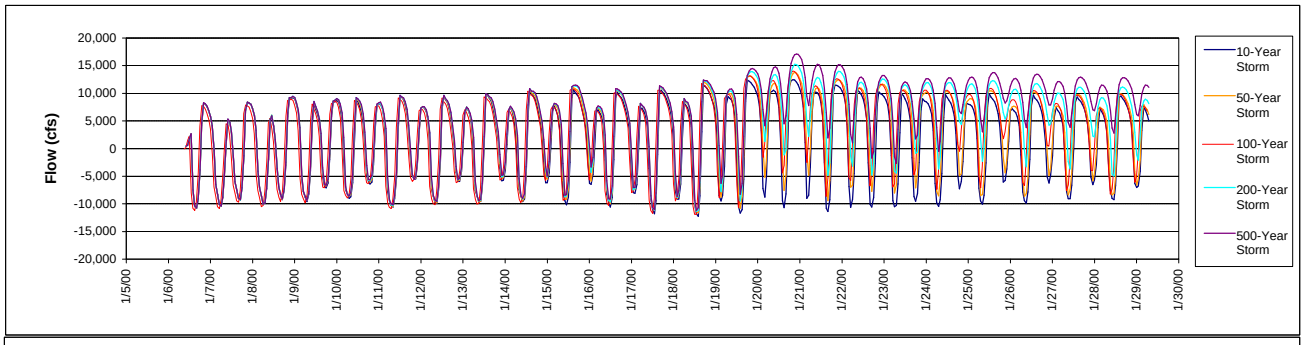


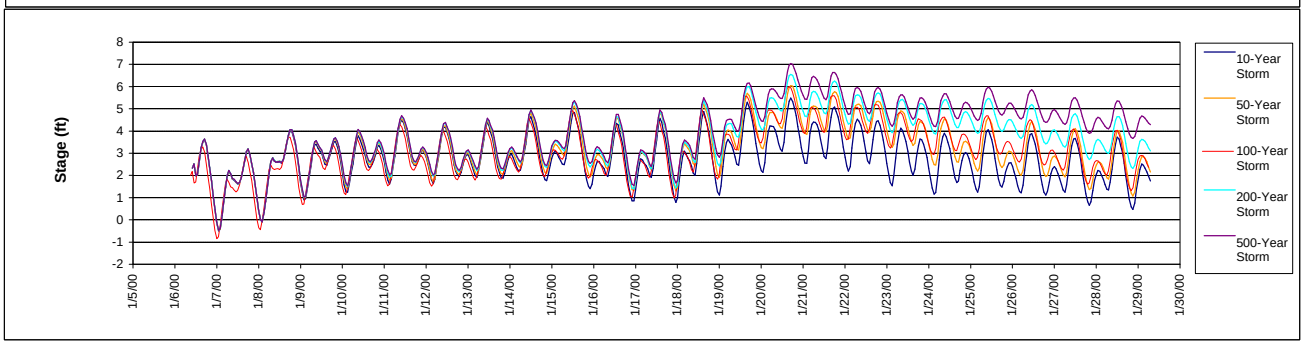
Hydrographs: Sacramento River Centering



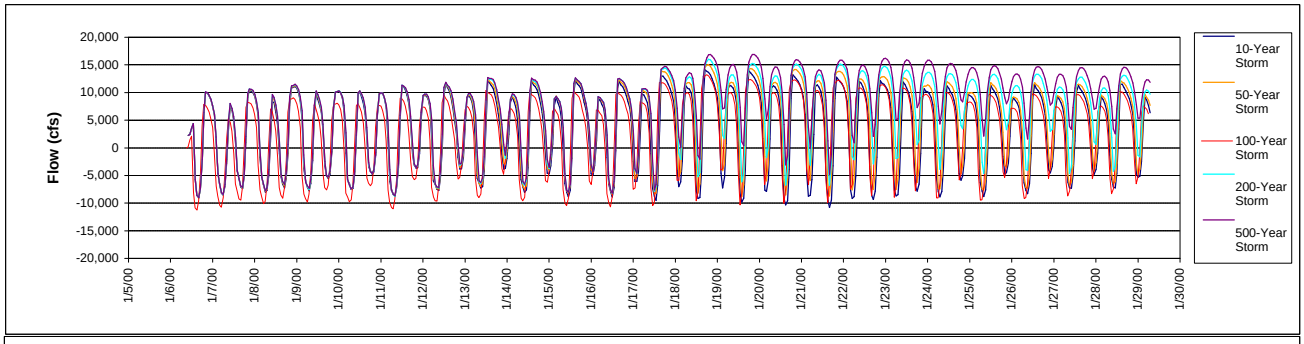


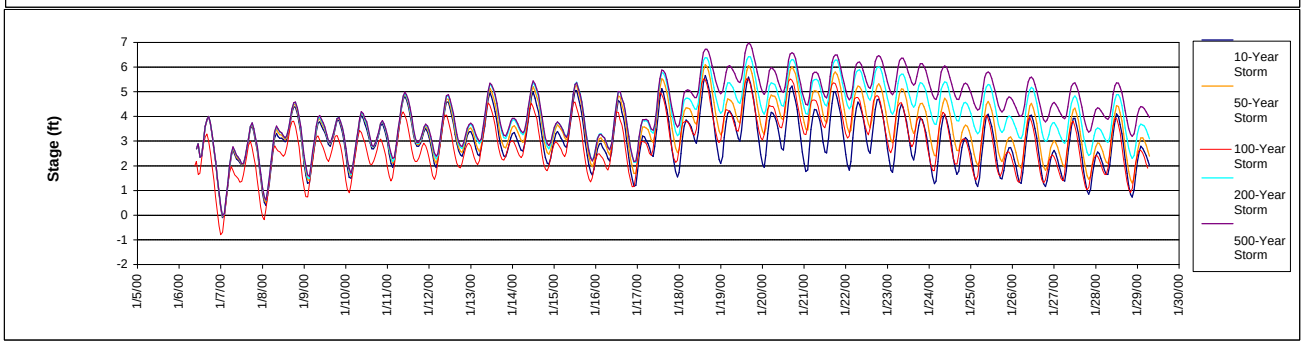
Hydrographs: Delta Centering





Hydrographs: San Joaquin River Centering





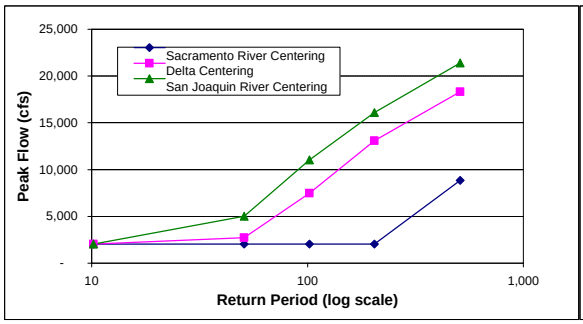
Middle River near Victoria Canal

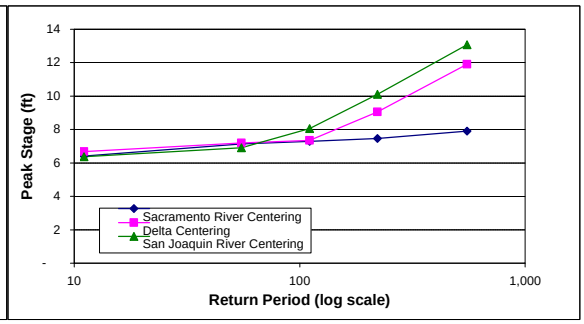
Station Name: 134_0
Flow Boundary Node: Yes (Stage Information may not be reliable.)
Stage Boundary Node: No
Result Summary
Flood Peaks
Hydrographs

Flood Peaks

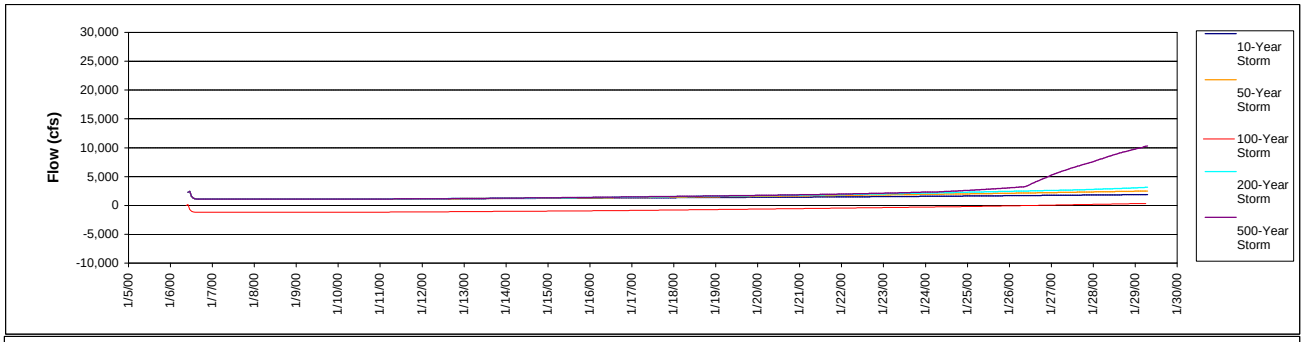
Return Period (yrs)	Storm Centering					
	Sacramento River		Delta		San Joaquin River	
	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)
10	1,195	5.9	1,195	6.2	1,195	5.9
50	1,195	6.7	1,878	6.7	4,175	6.4
100	1,195	6.8	6,632	6.9	10,204	7.6
200	1,195	7.0	12,248	8.6	15,240	9.6
500	8,017	7.4	17,477	11.4	20,562	12.6

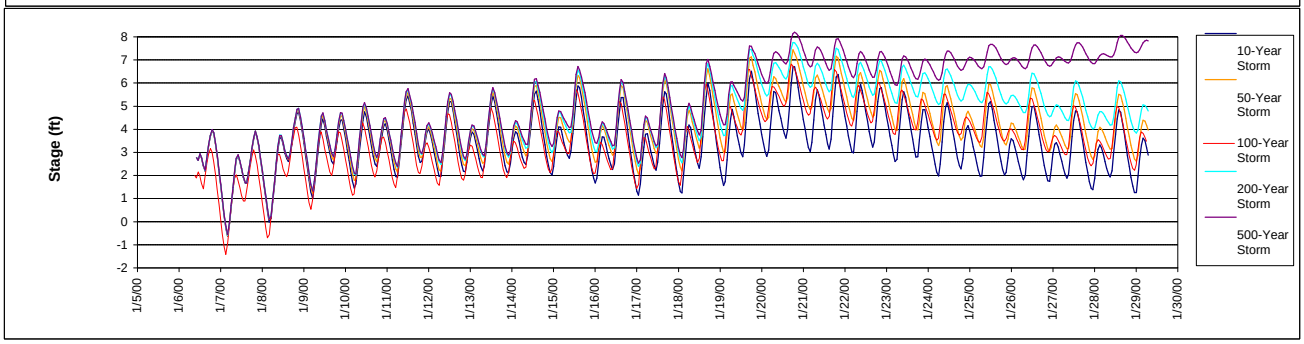
* Peak flow and peak stage may occur at different time.



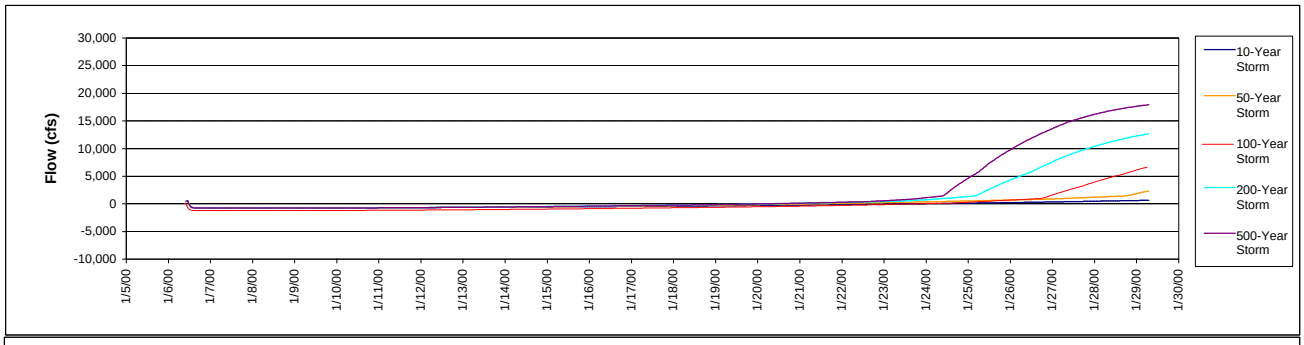


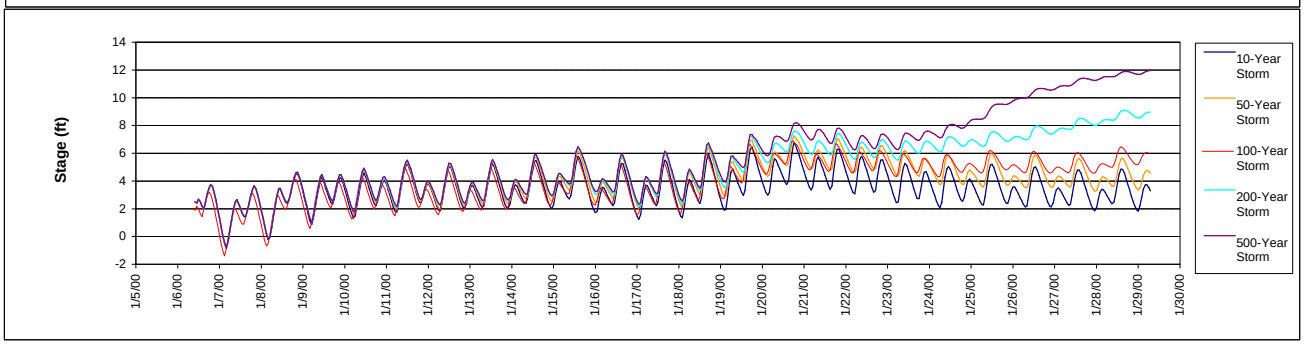
Hydrographs: Sacramento River Centering



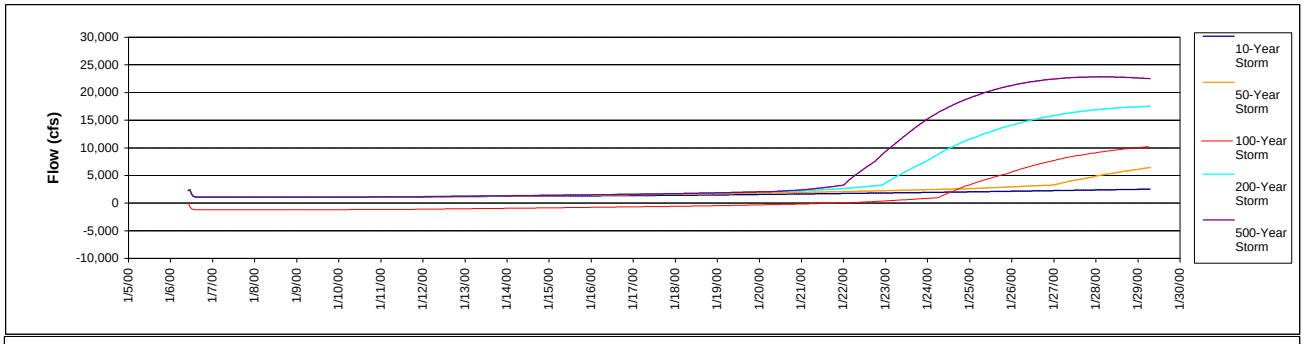


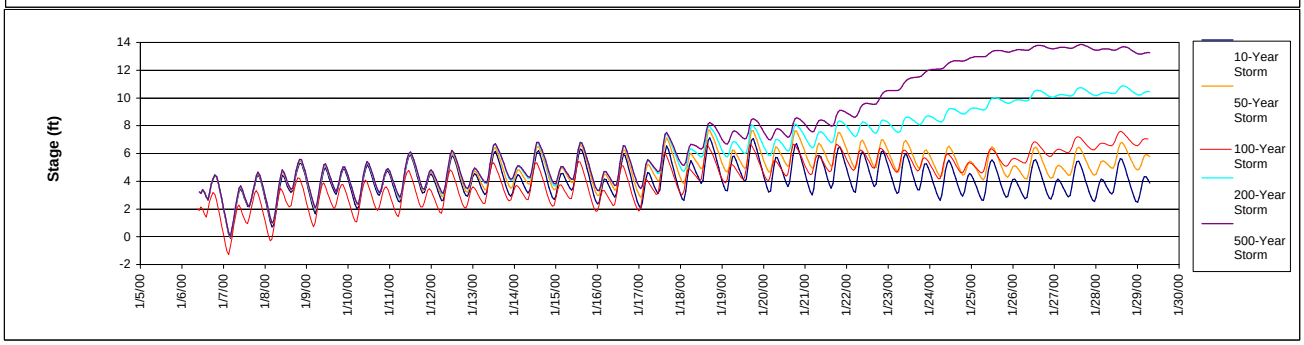
Hydrographs: Delta Centering





Hydrographs: San Joaquin River Centering





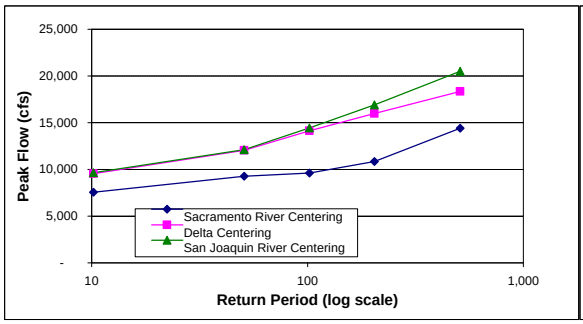
Victoria Canal

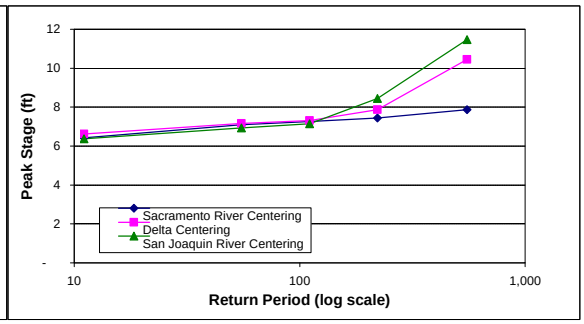
Station Name: CHVCT000
Flow Boundary Node: No
Stage Boundary Node: No
Result Summary
Flood Peaks
Hydrographs

Flood Peaks

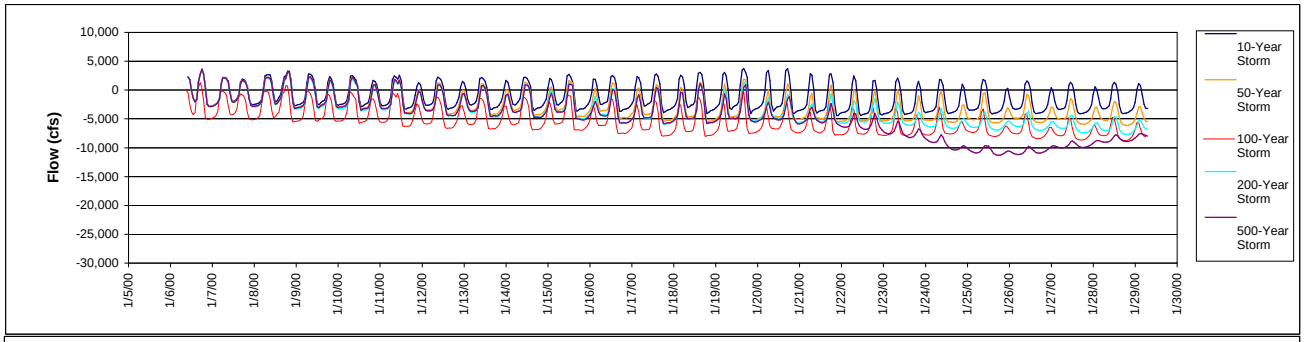
Return Period (yrs)	Storm Centering					
	Sacramento River		Delta		San Joaquin River	
	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)
10	6,724	6.0	8,690	6.2	8,785	6.0
50	8,438	6.7	11,203	6.8	11,268	6.5
100	8,769	6.9	13,288	6.9	13,610	6.7
200	9,988	7.0	15,143	7.5	16,046	8.0
500	13,578	7.5	17,513	10.1	19,647	11.1

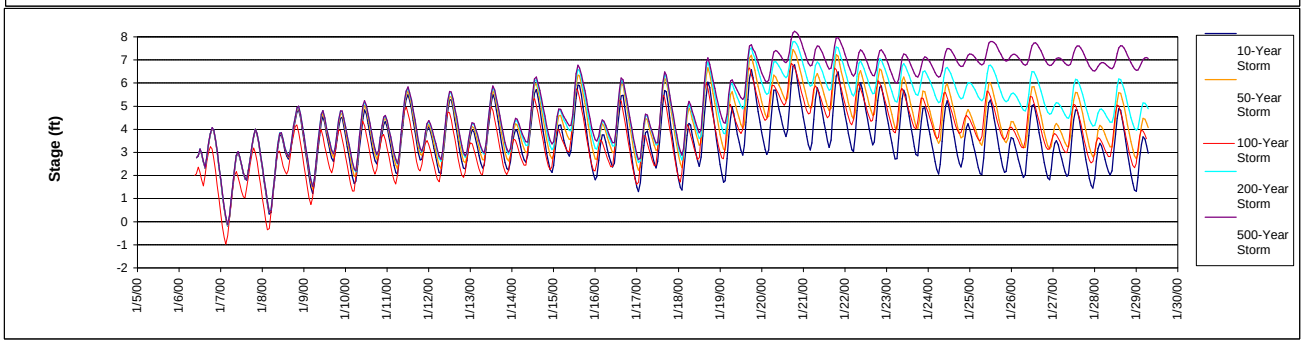
* Peak flow and peak stage may occur at different time.



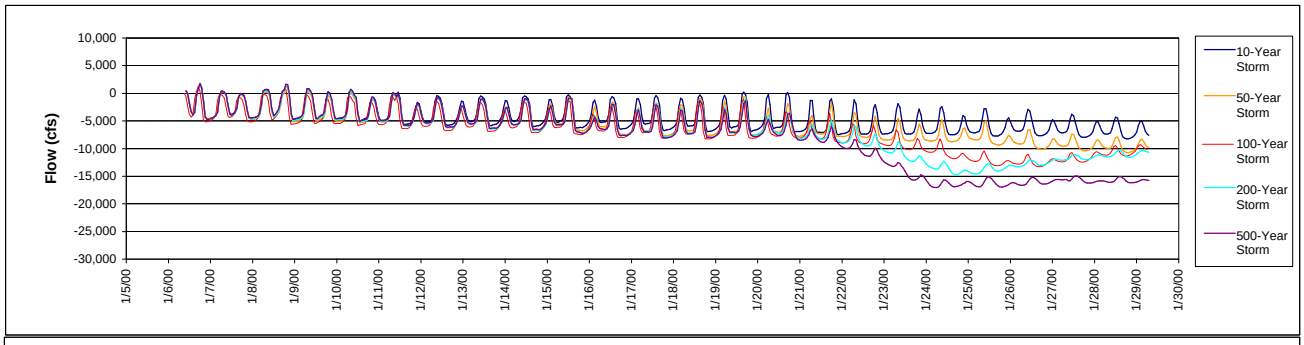


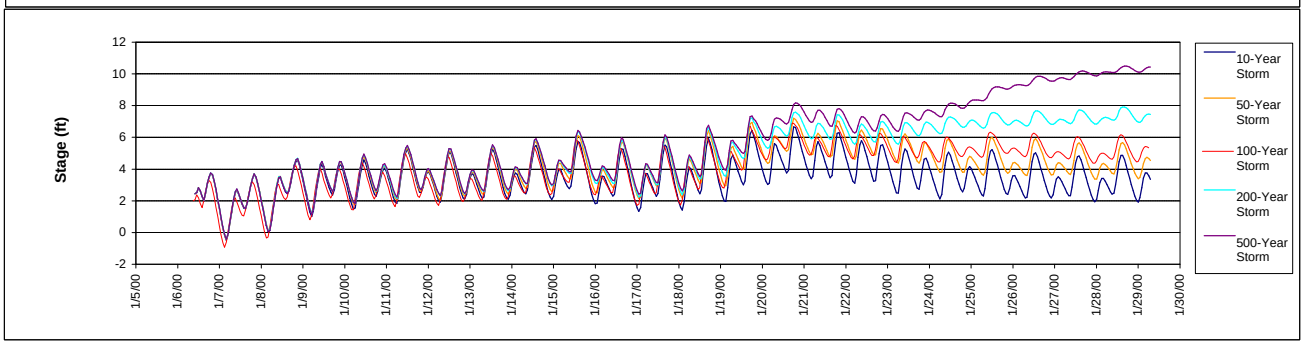
Hydrographs: Sacramento River Centering



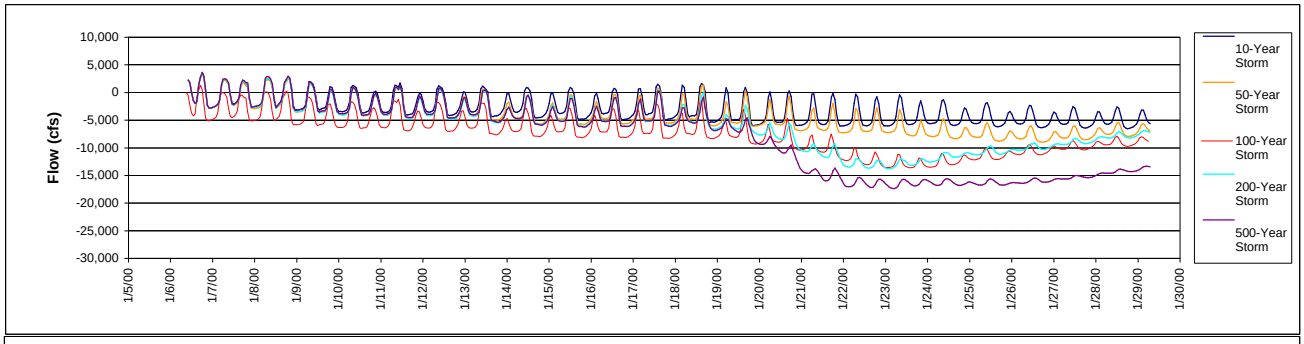


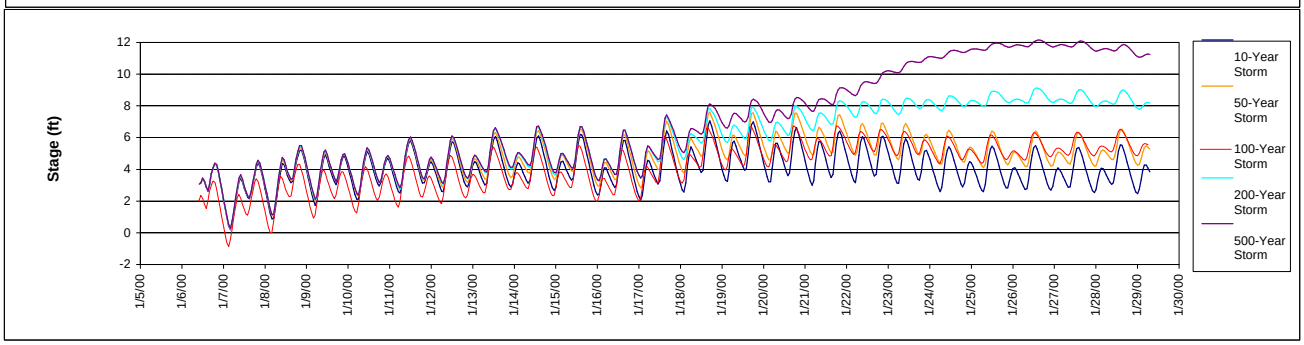
Hydrographs: Delta Centering





Hydrographs: San Joaquin River Centering



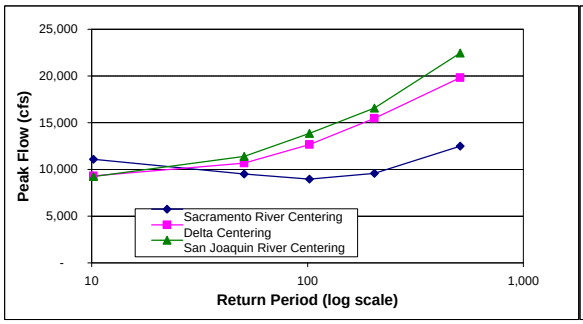


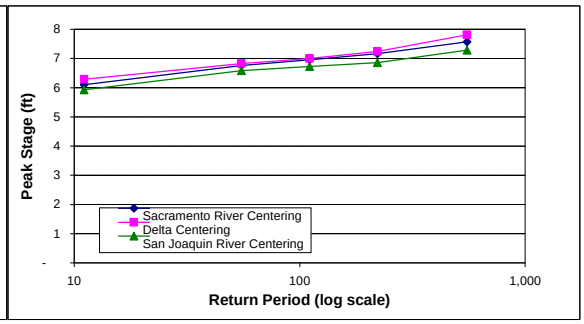
Station Name: RMID015_144
Flow Boundary Node: No
Stage Boundary Node: No
Result Summary
Flood Peaks
Hydrographs

Flood Peaks

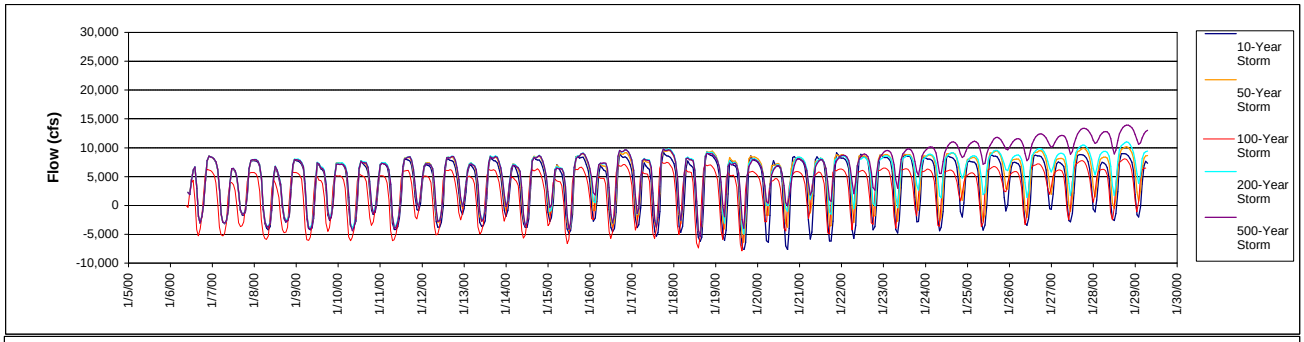
Return Period (yrs)	Storm Centering					
	Sacramento River		Delta		San Joaquin River	
	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)
10	10,255	5.8	8,460	6.0	8,387	5.7
50	8,678	6.5	9,823	6.6	10,540	6.3
100	8,111	6.7	11,831	6.7	13,008	6.5
200	8,726	6.9	14,619	7.0	15,735	6.6
500	11,656	7.3	18,976	7.5	21,606	7.0

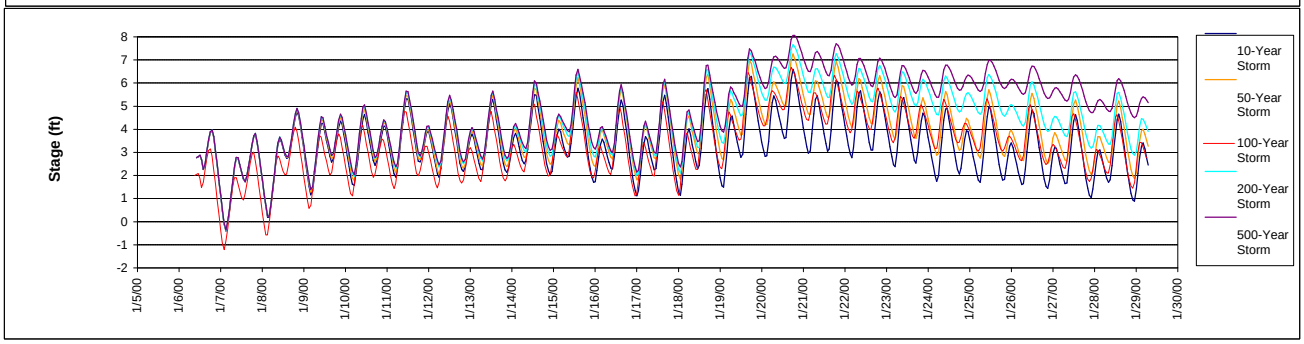
* Peak flow and peak stage may occur at different time.



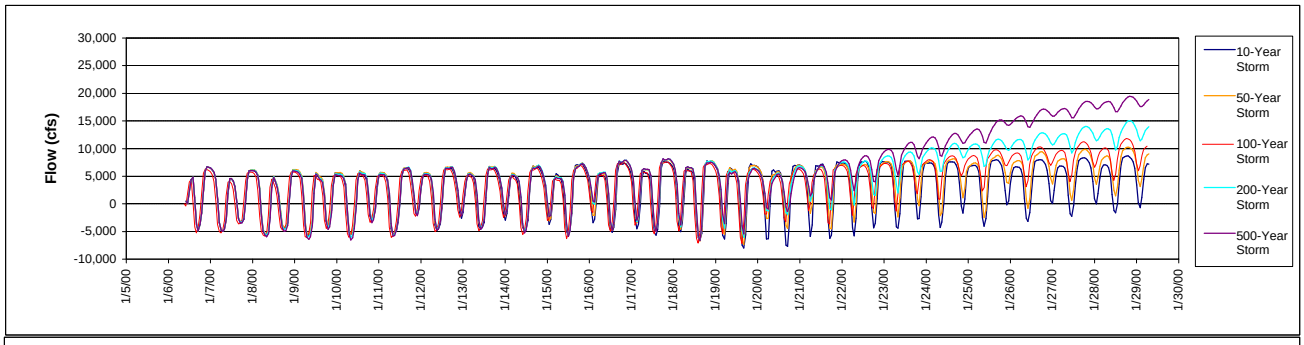


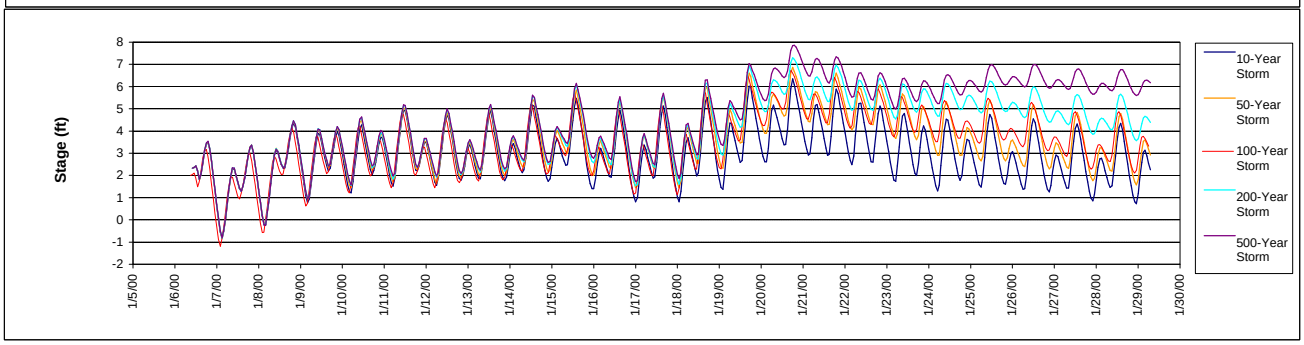
Hydrographs: Sacramento River Centering



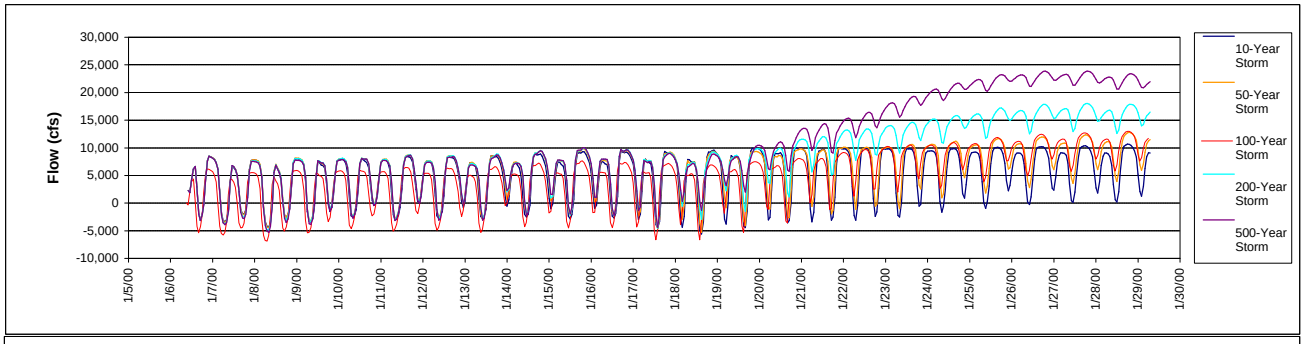


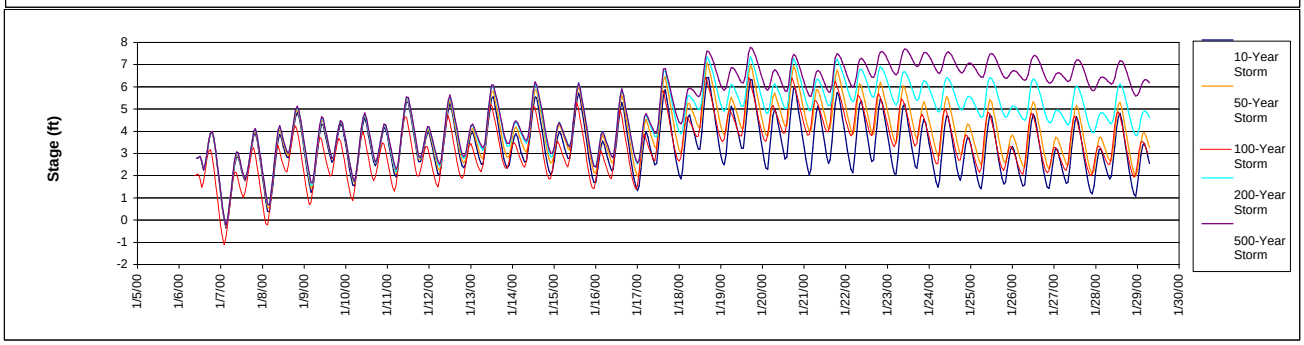
Hydrographs: Delta Centering





Hydrographs: San Joaquin River Centering





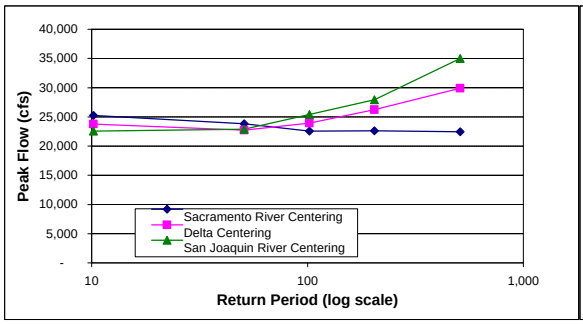
Middle River at Columbia Cut

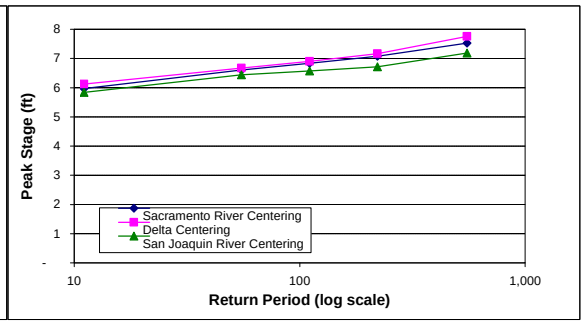
Station Name: RMID005
Flow Boundary Node: No
Stage Boundary Node: No
Result Summary
Flood Peaks
Hydrographs

Flood Peaks

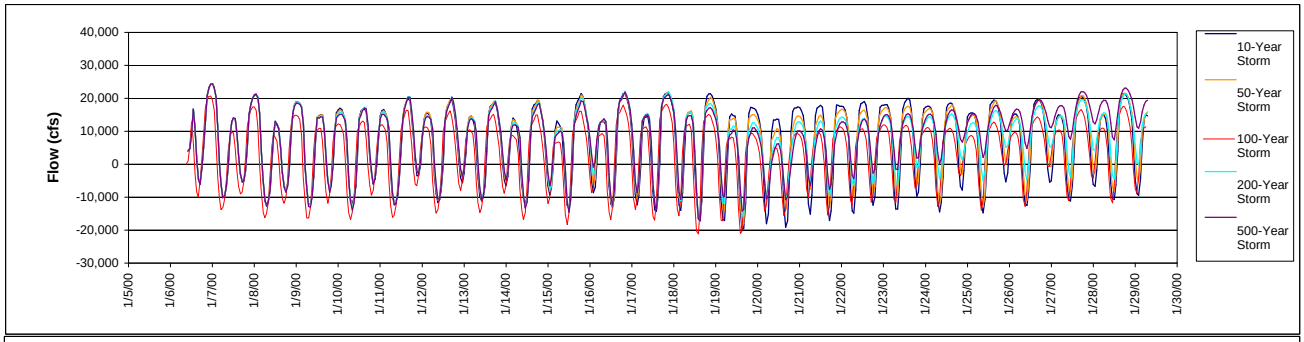
Return Period (yrs)	Storm Centering					
	Sacramento River		Delta		San Joaquin River	
	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)
10	23,863	5.7	22,403	5.9	21,212	5.6
50	22,487	6.3	21,389	6.4	21,553	6.2
100	21,180	6.6	22,551	6.6	24,037	6.3
200	21,234	6.8	24,875	6.9	26,578	6.4
500	21,119	7.3	28,528	7.5	33,652	6.9

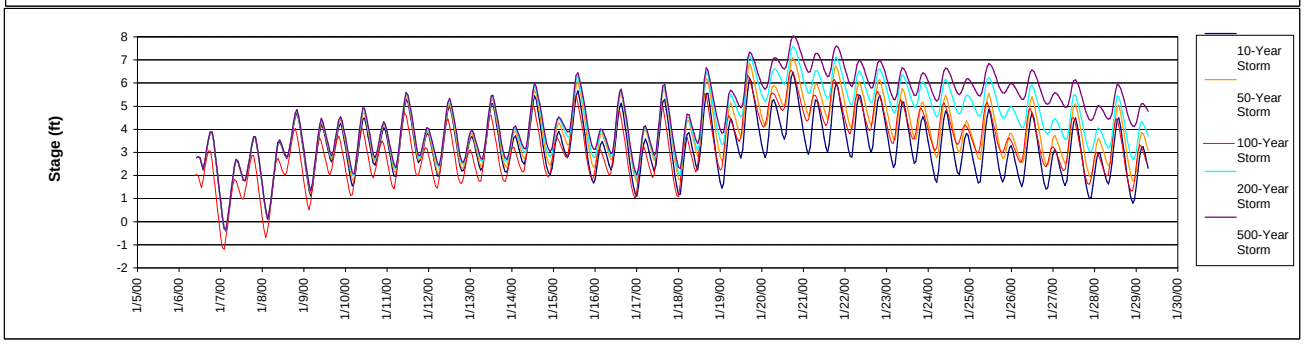
* Peak flow and peak stage may occur at different time.



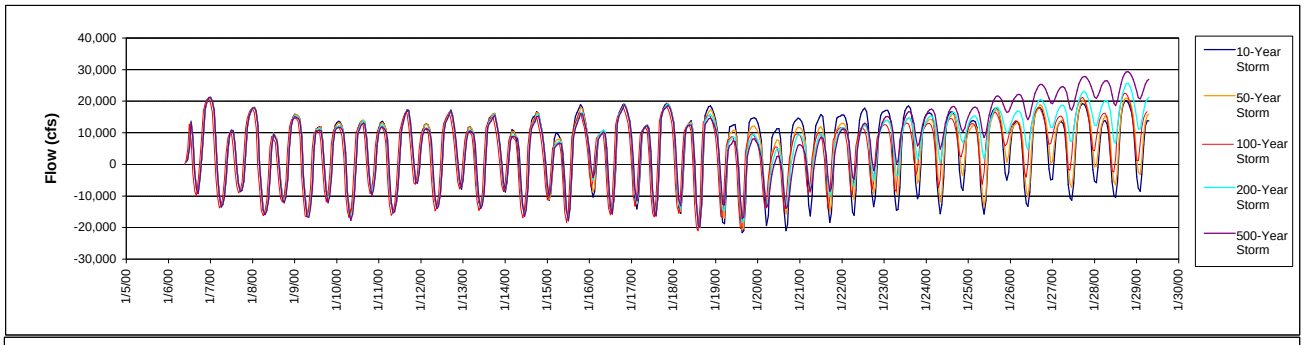


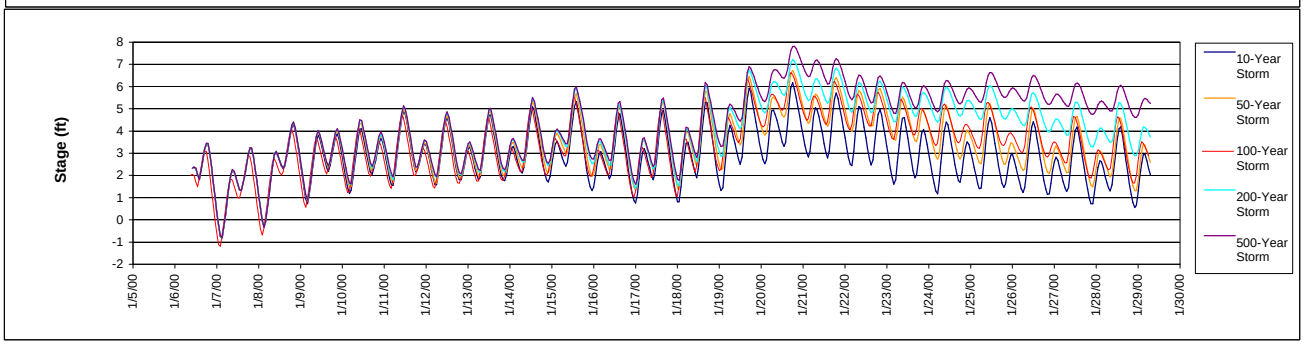
Hydrographs: Sacramento River Centering



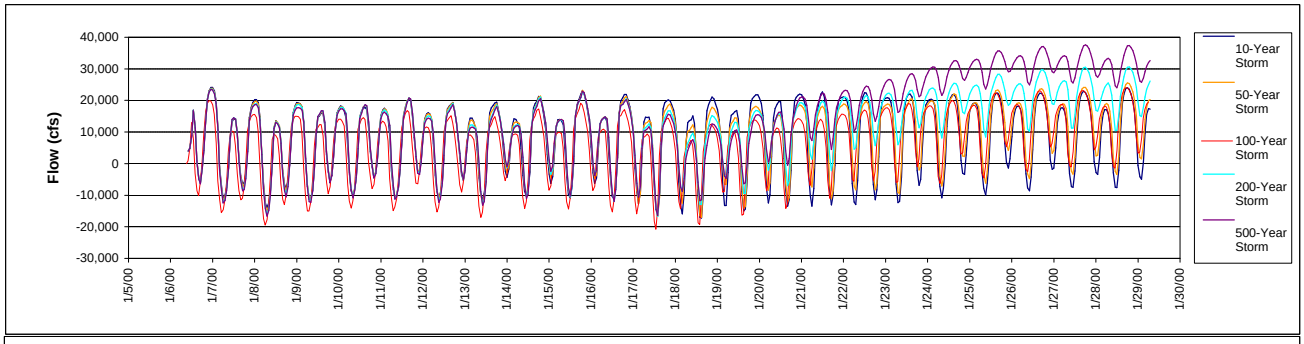


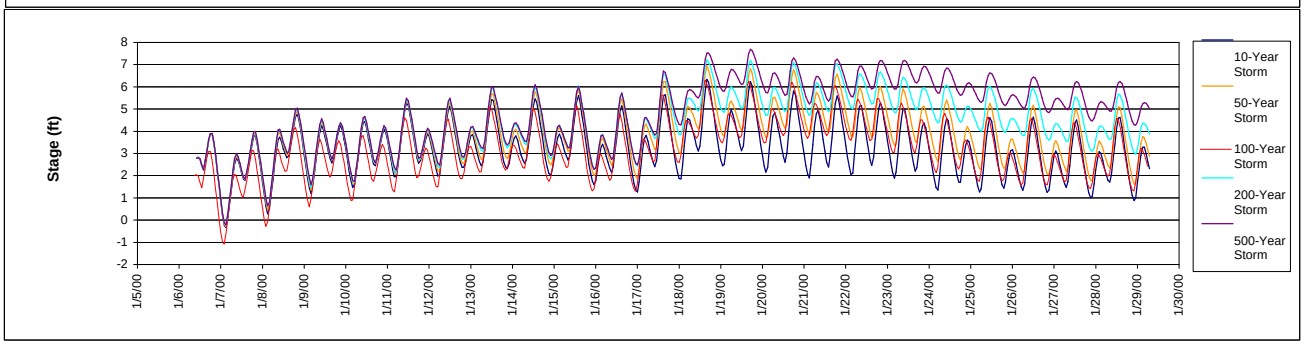
Hydrographs: Delta Centering





Hydrographs: San Joaquin River Centering



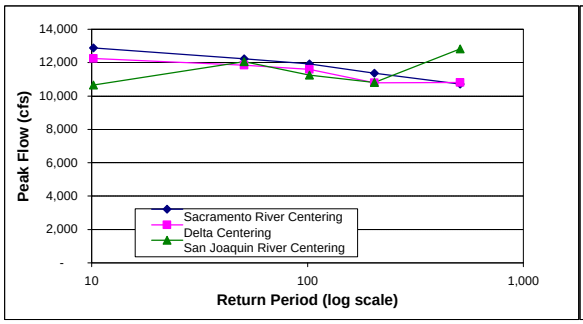


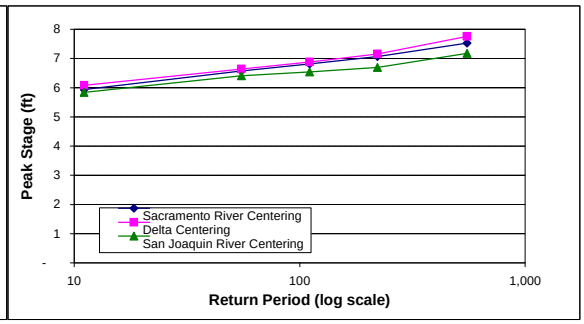
Station Name: NORKI160
Flow Boundary Node: No
Stage Boundary Node: No
Result Summary
Flood Peaks
Hydrographs

Flood Peaks

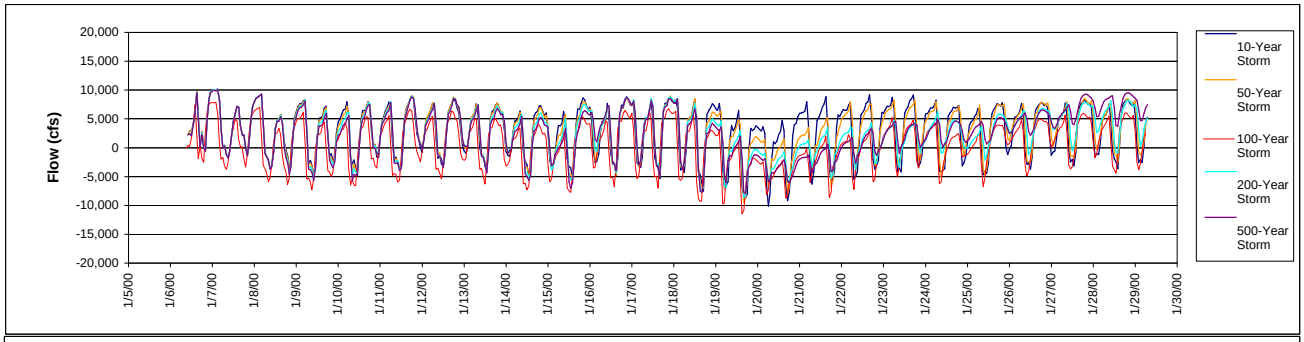
Return Period (yrs)	Storm Centering					
	Sacramento River		Delta		San Joaquin River	
	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)
10	12,413	5.7	11,777	5.8	10,191	5.6
50	11,759	6.3	11,381	6.4	11,583	6.1
100	11,451	6.5	11,122	6.6	10,782	6.3
200	10,902	6.8	10,325	6.9	10,331	6.4
500	10,249	7.3	10,331	7.5	12,349	6.9

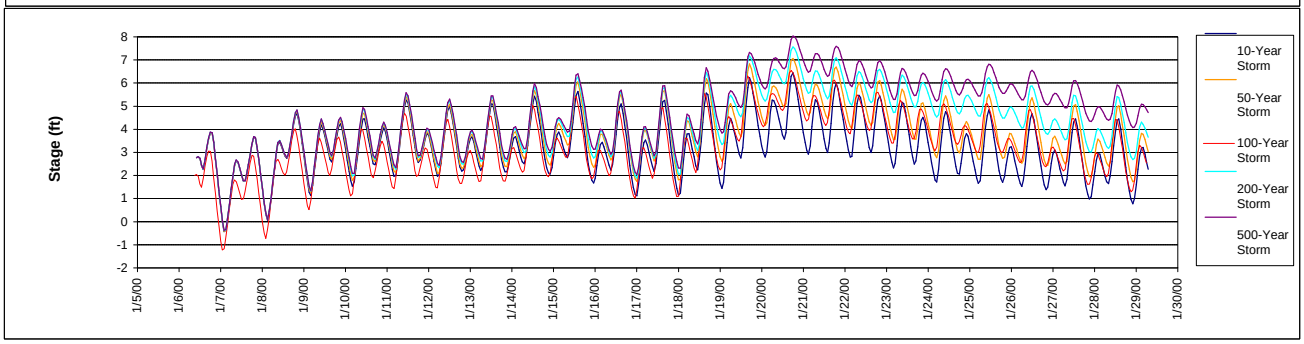
* Peak flow and peak stage may occur at different time.



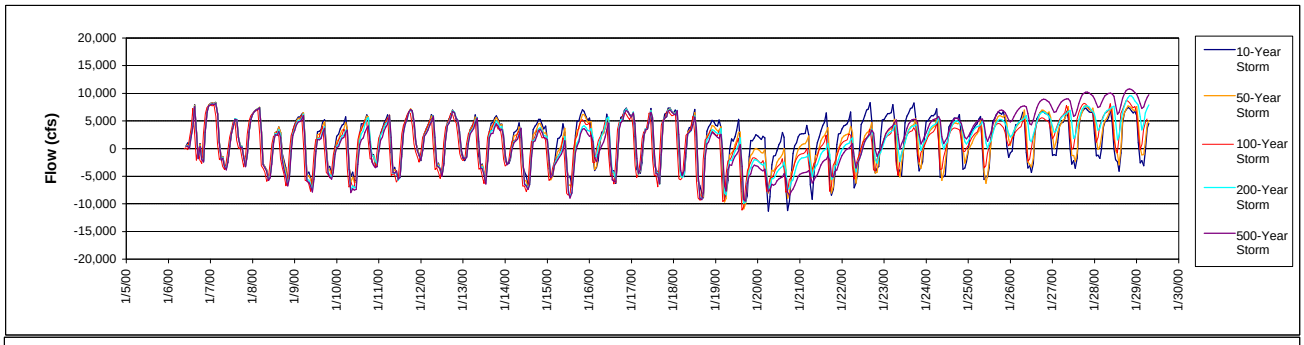


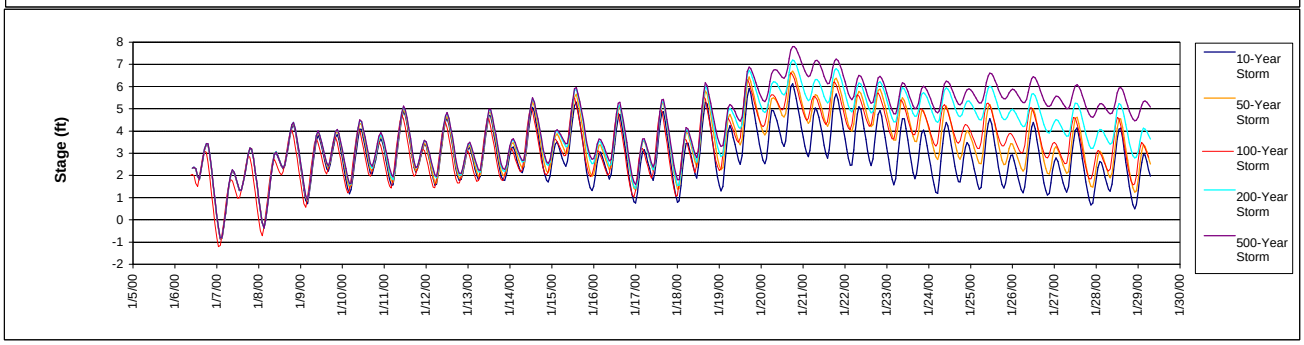
Hydrographs: Sacramento River Centering



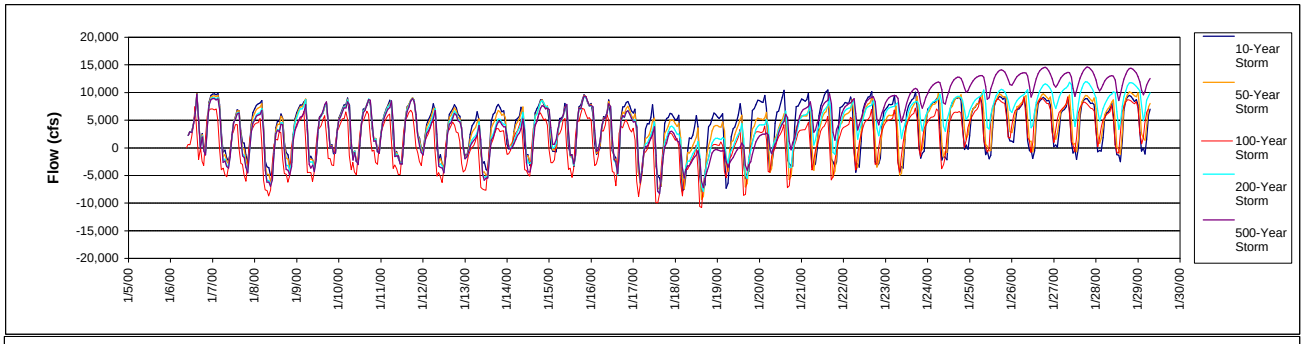


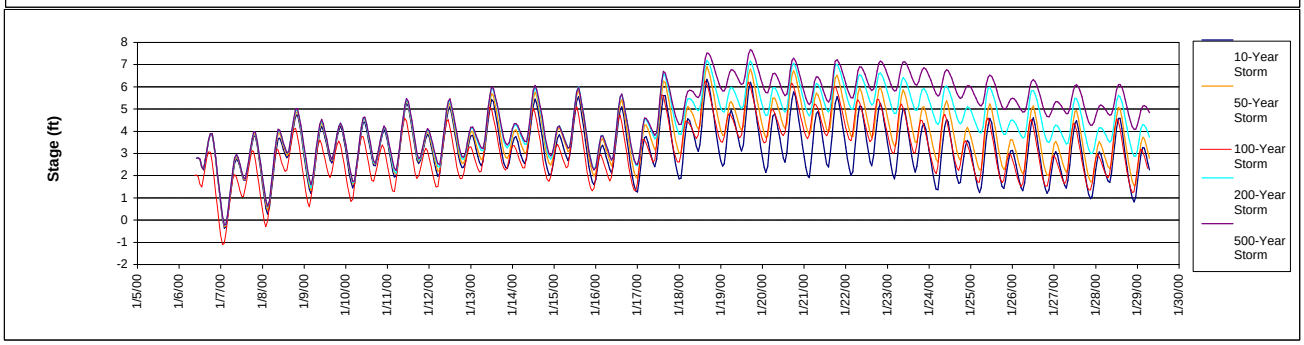
Hydrographs: Delta Centering





Hydrographs: San Joaquin River Centering





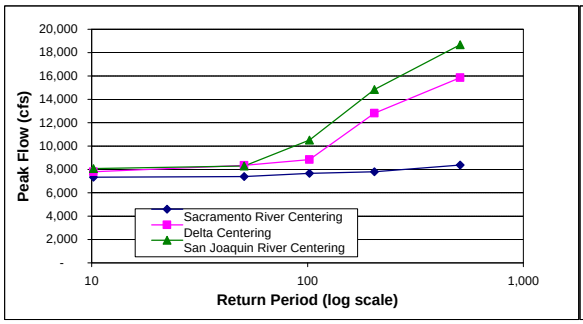
San Joaquin River at Ship Channel

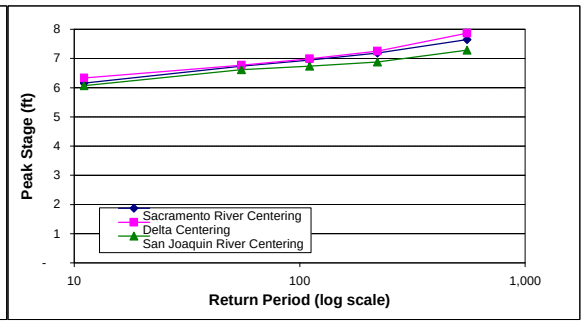
Station Name: RSAN058
Flow Boundary Node: No
Stage Boundary Node: No
Result Summary
Flood Peaks
Hydrographs

Flood Peaks

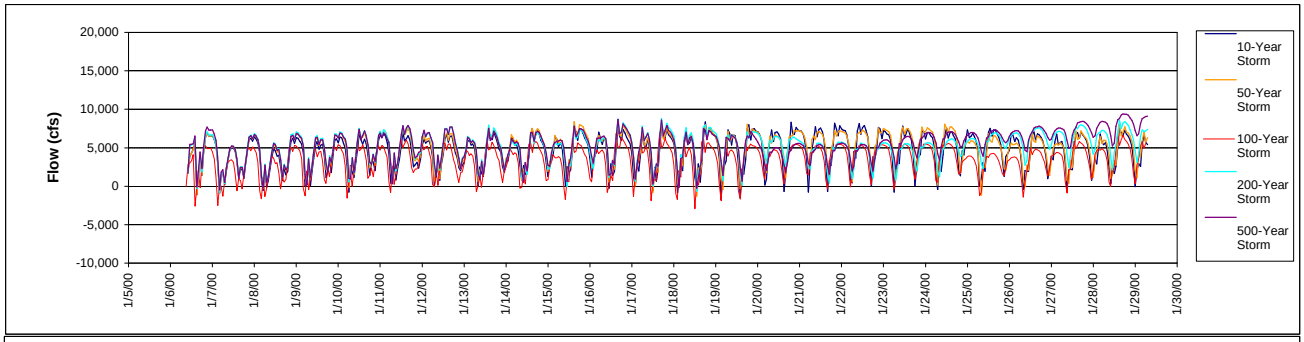
Return Period (yrs)	Storm Centering					
	Sacramento River		Delta		San Joaquin River	
	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)
10	6,659	5.9	7,136	6.1	7,410	5.8
50	6,705	6.5	7,677	6.5	7,610	6.4
100	6,994	6.7	8,154	6.7	9,824	6.5
200	7,117	6.9	12,140	7.0	14,168	6.6
500	7,702	7.4	15,177	7.6	18,003	7.0

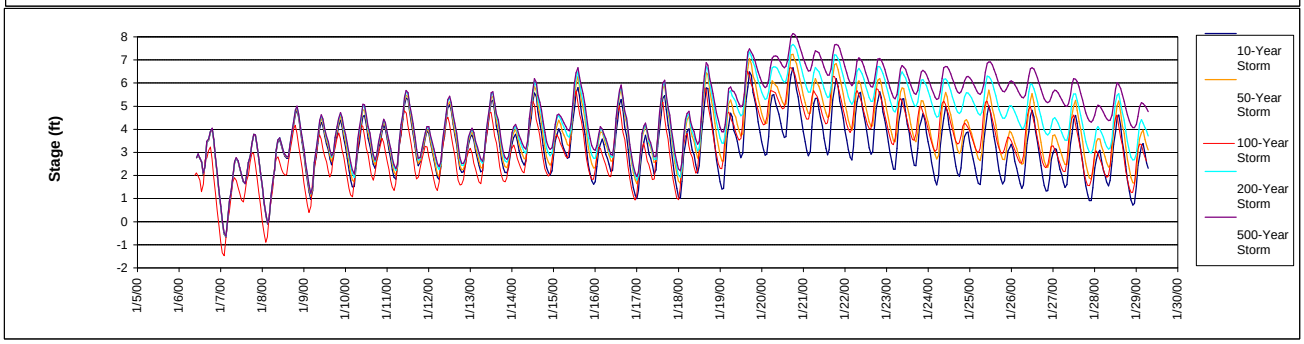
* Peak flow and peak stage may occur at different time.



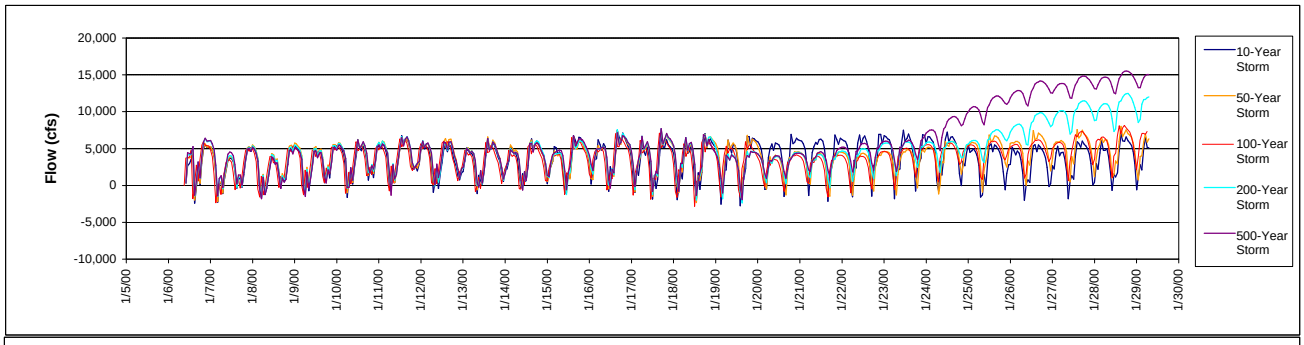


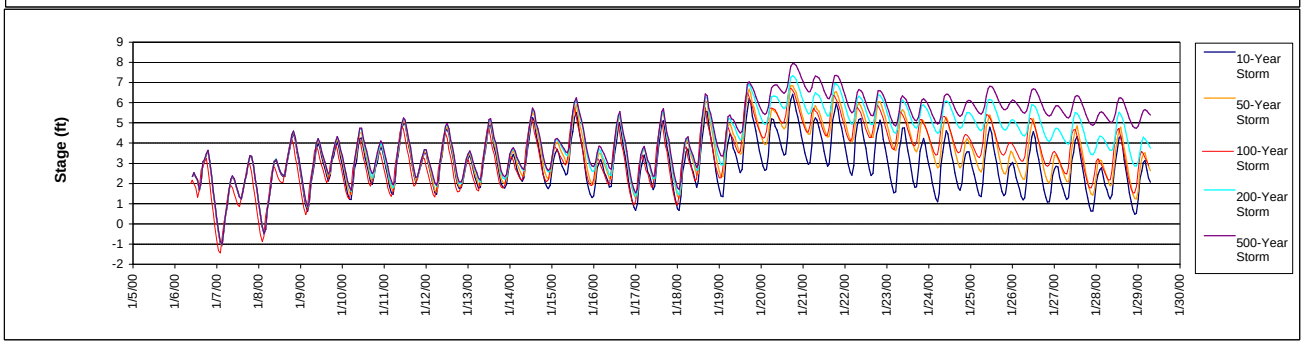
Hydrographs: Sacramento River Centering



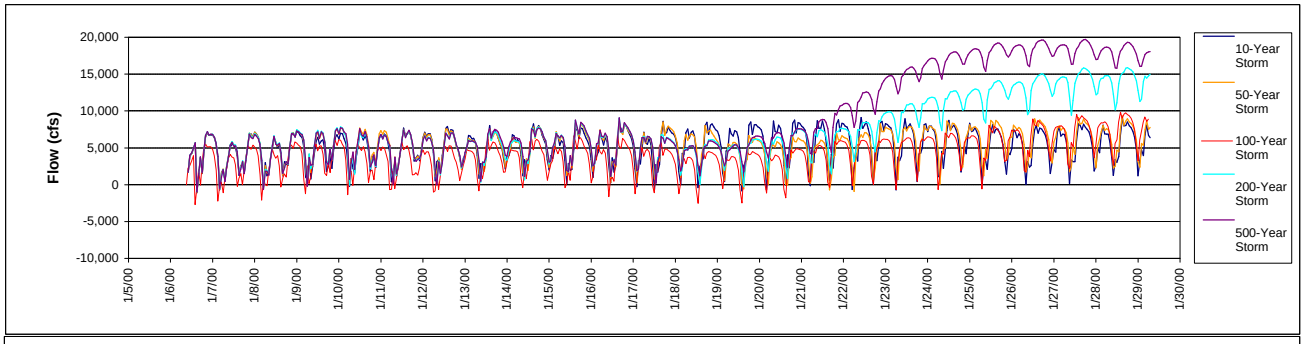


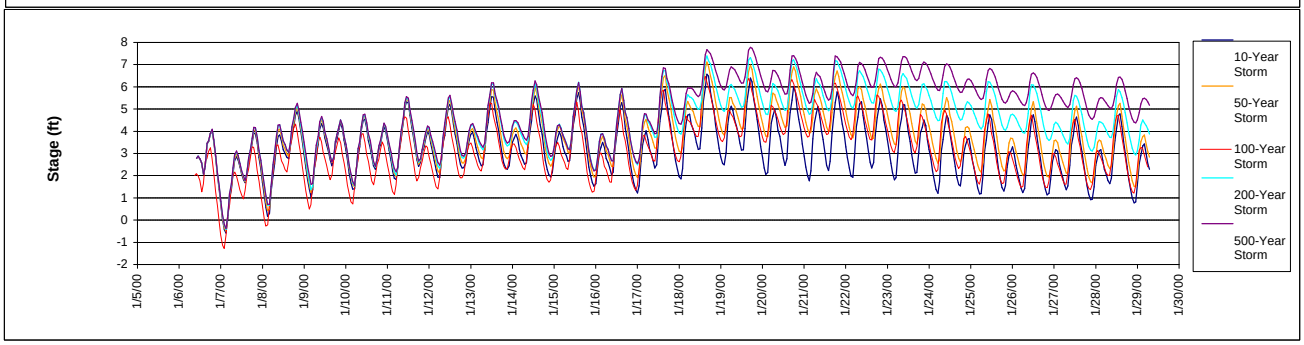
Hydrographs: Delta Centering





Hydrographs: San Joaquin River Centering





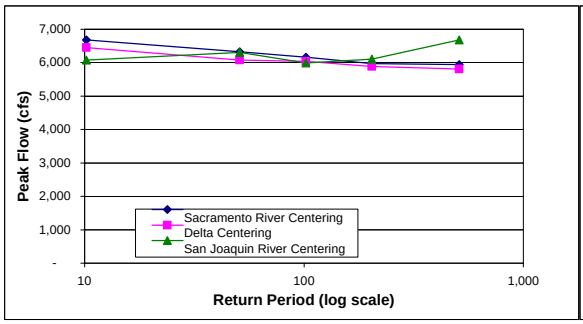
Turner Cut

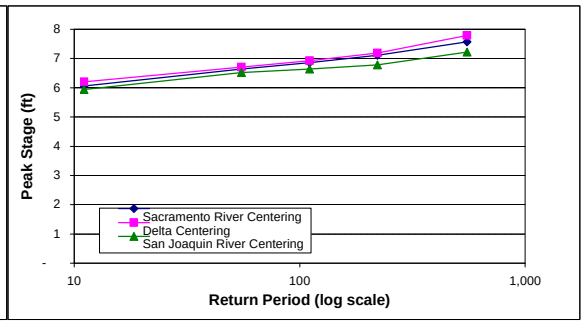
Station Name: CFTRN000
Flow Boundary Node: No
Stage Boundary Node: No
Result Summary
Flood Peaks
Hydrographs

Flood Peaks

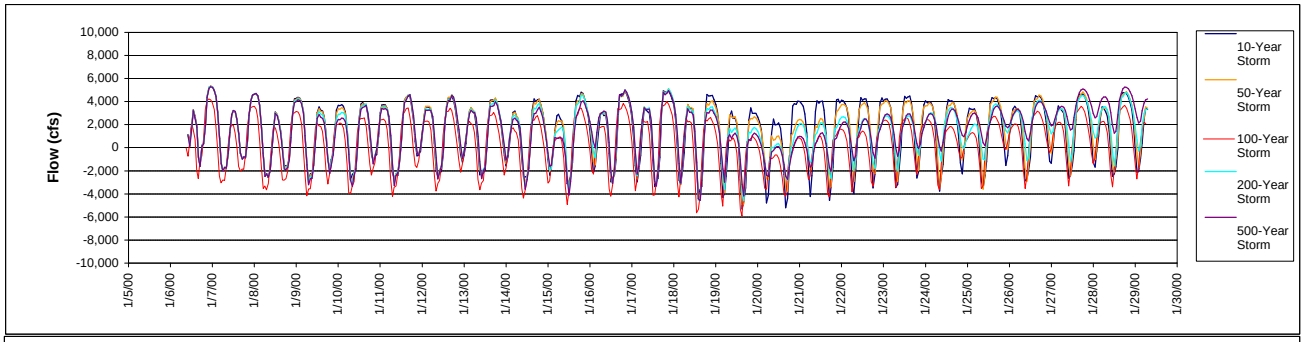
Return Period (yrs)	Storm Centering					
	Sacramento River		Delta		San Joaquin River	
	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)
10	6,449	5.8	6,210	5.9	5,839	5.7
50	6,091	6.4	5,843	6.4	6,072	6.3
100	5,926	6.6	5,800	6.7	5,755	6.4
200	5,732	6.8	5,650	6.9	5,870	6.5
500	5,708	7.3	5,573	7.5	6,441	7.0

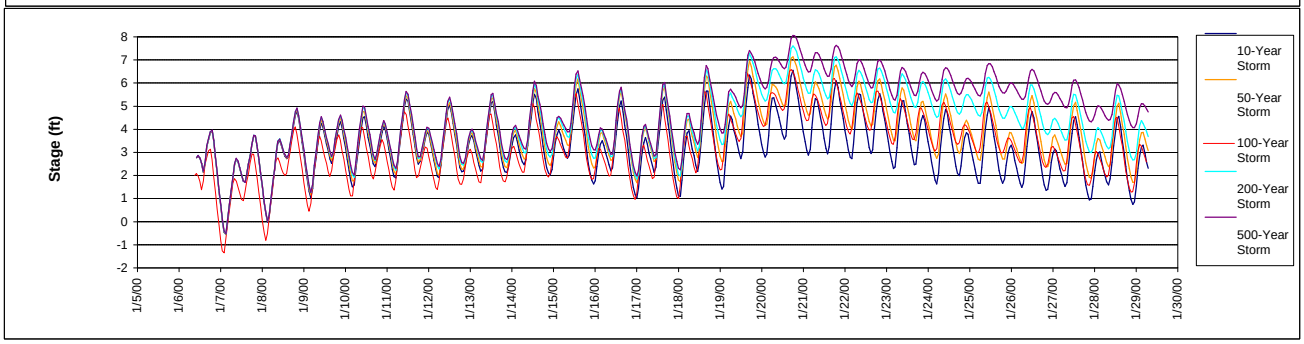
* Peak flow and peak stage may occur at different time.



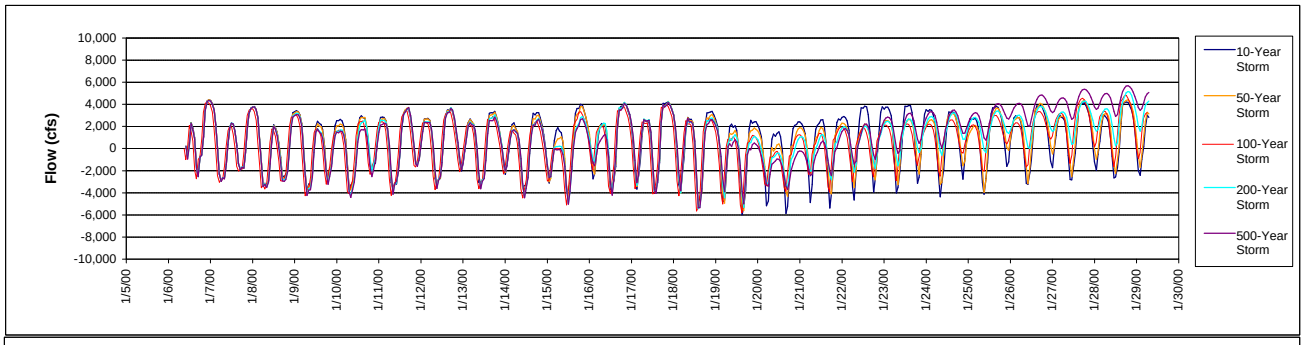


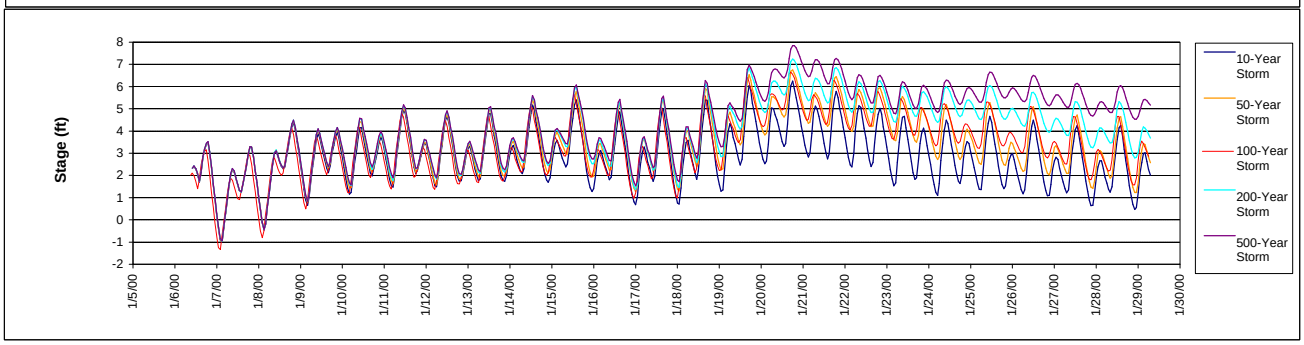
Hydrographs: Sacramento River Centering



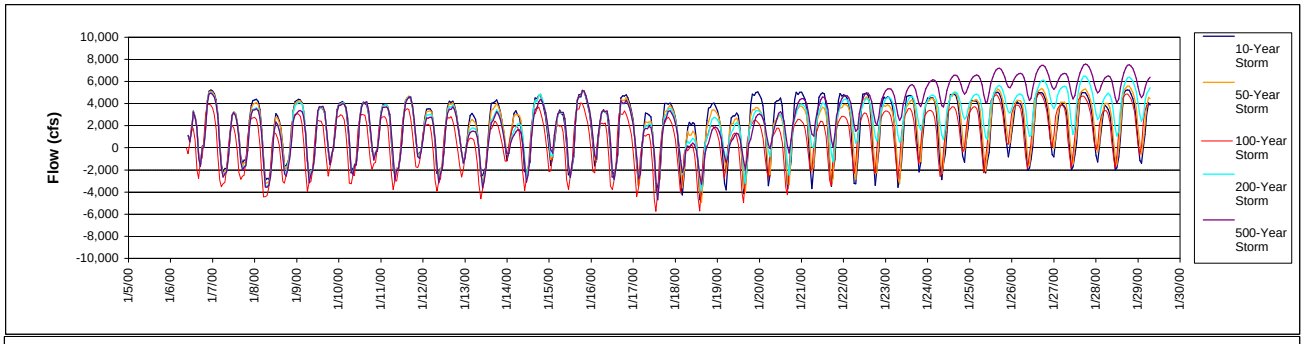


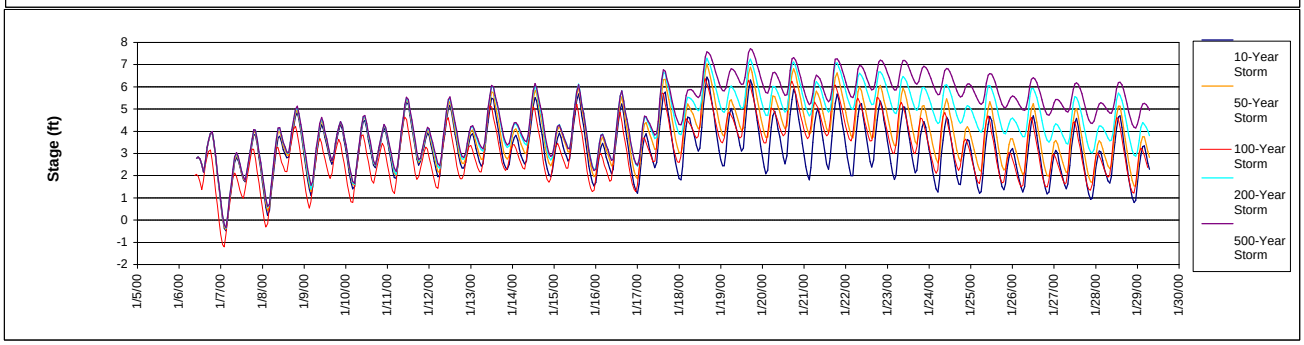
Hydrographs: Delta Centering





Hydrographs: San Joaquin River Centering



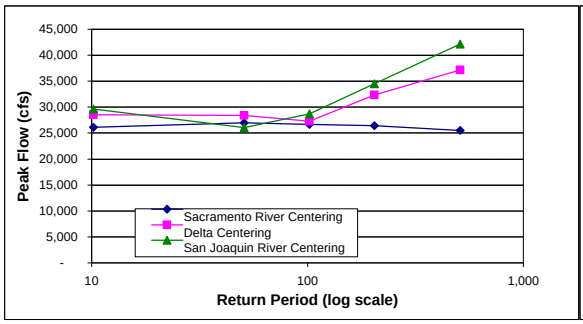


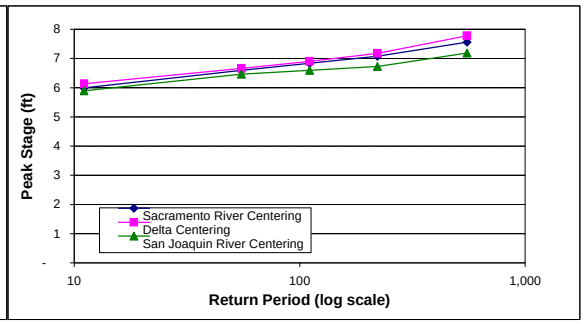
Station Name: RSAN046
Flow Boundary Node: No
Stage Boundary Node: No
Result Summary
Flood Peaks
Hydrographs

Flood Peaks

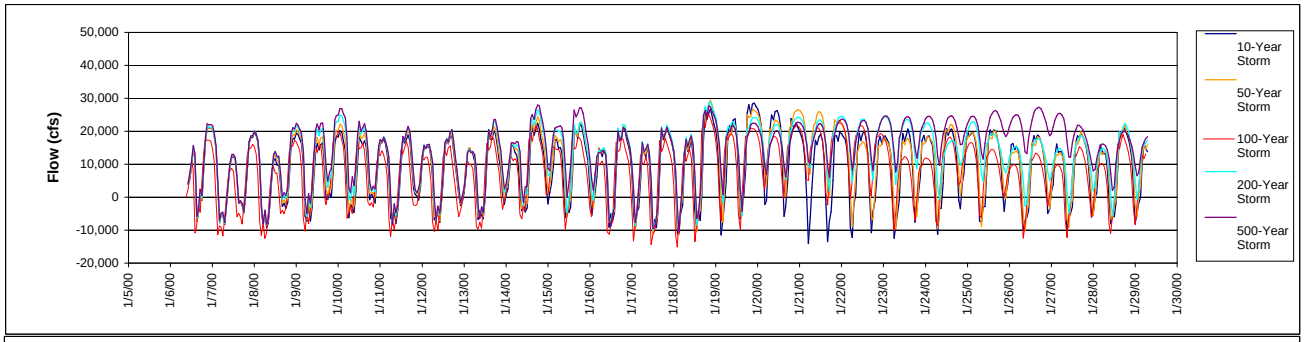
Return Period (yrs)	Storm Centering					
	Sacramento River		Delta		San Joaquin River	
	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)
10	24,590	5.7	26,992	5.9	28,139	5.6
50	25,467	6.3	26,848	6.4	24,511	6.2
100	25,156	6.6	25,740	6.6	27,206	6.3
200	24,914	6.8	30,822	6.9	32,994	6.5
500	24,006	7.3	35,601	7.5	40,596	6.9

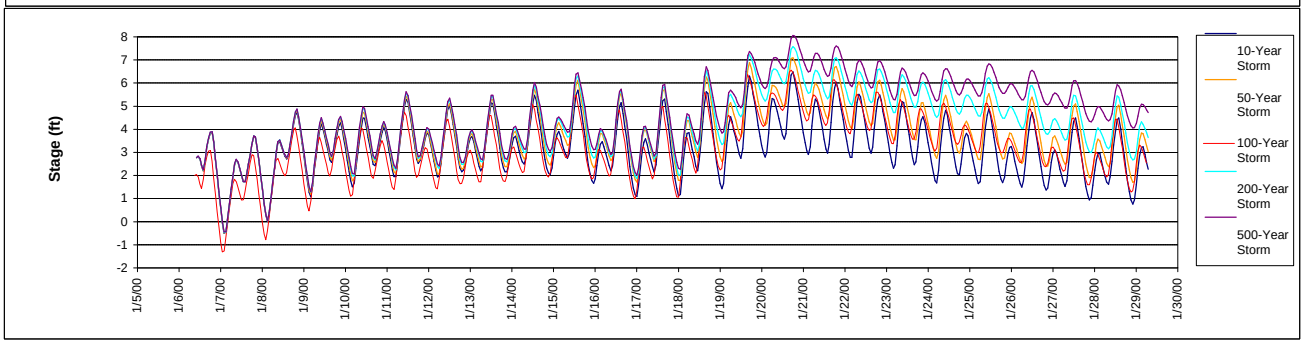
* Peak flow and peak stage may occur at different time.



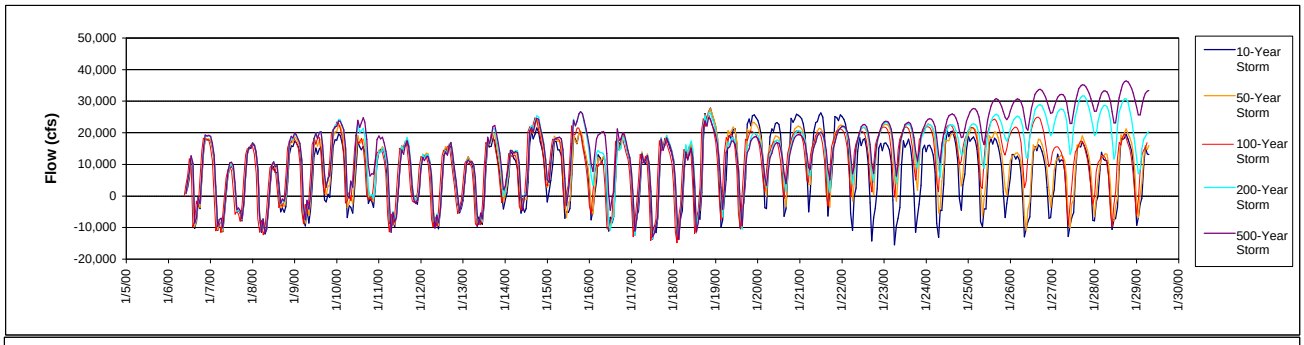


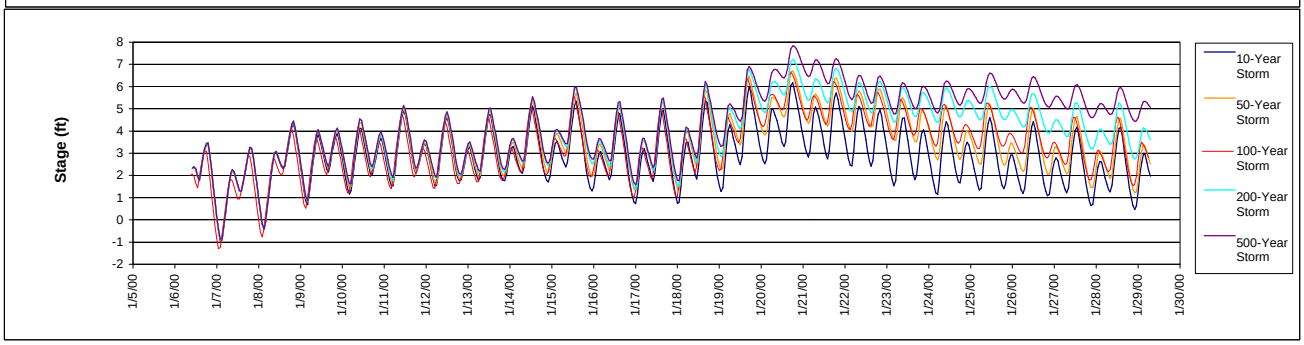
Hydrographs: Sacramento River Centering



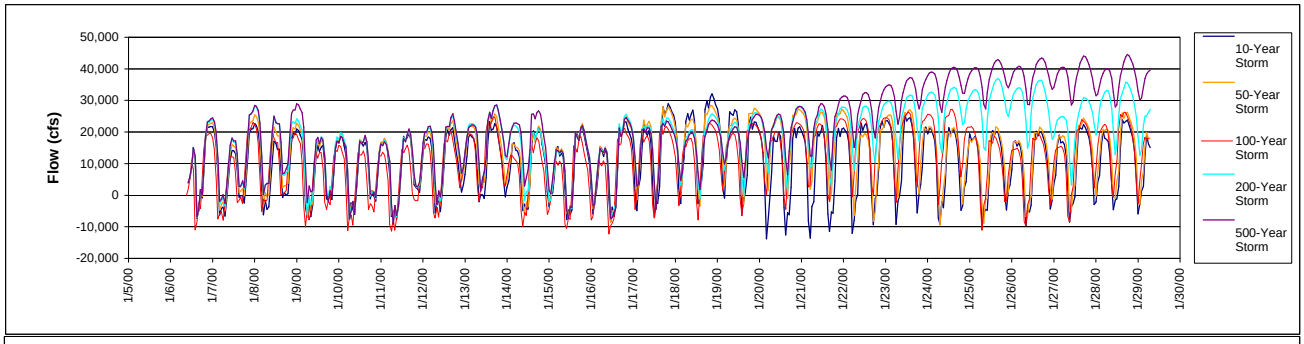


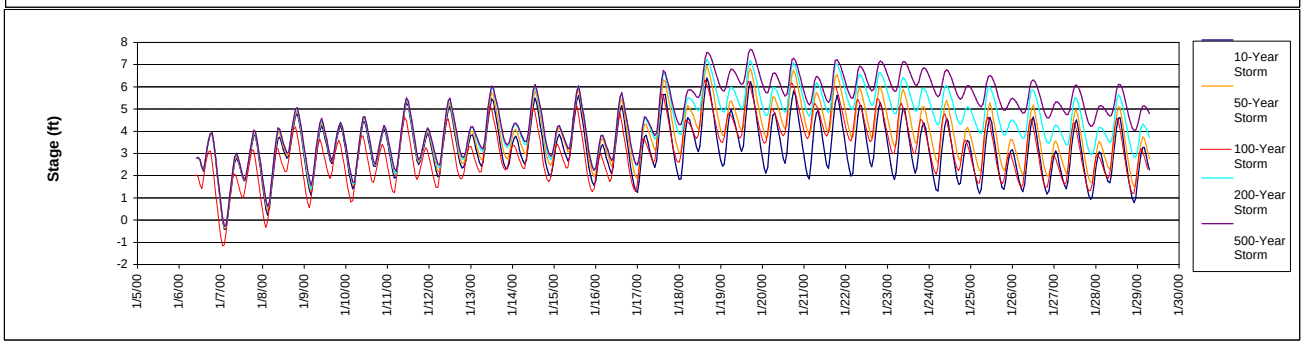
Hydrographs: Delta Centering





Hydrographs: San Joaquin River Centering





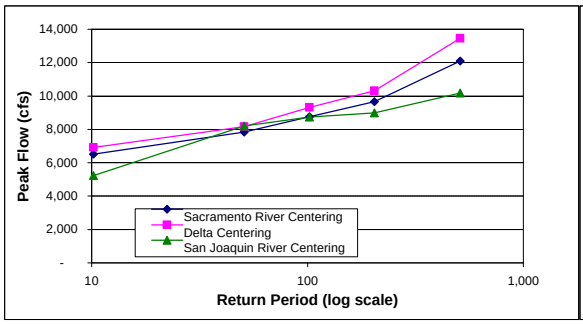
San Joaquin River at Venice Island

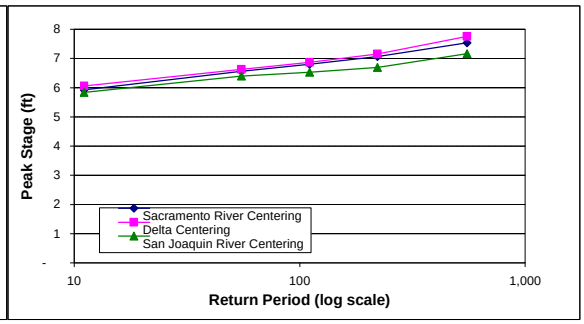
Station Name: RSAN043
Flow Boundary Node: No
Stage Boundary Node: No
Result Summary
Flood Peaks
Hydrographs

Flood Peaks

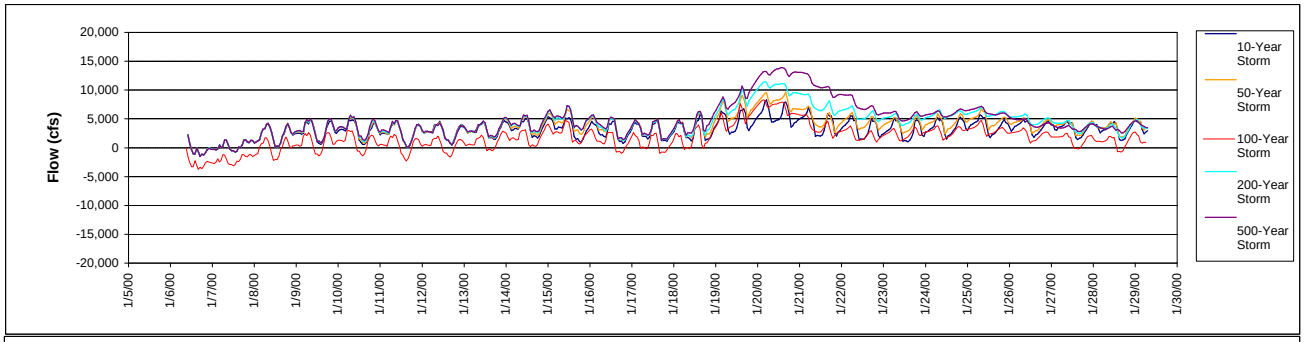
Return Period (yrs)	Storm Centering					
	Sacramento River		Delta		San Joaquin River	
	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)
10	6,035	5.7	6,444	5.8	4,748	5.6
50	7,366	6.3	7,687	6.4	7,721	6.1
100	8,287	6.5	8,837	6.6	8,271	6.3
200	9,196	6.8	9,834	6.9	8,513	6.4
500	11,614	7.3	12,977	7.5	9,705	6.9

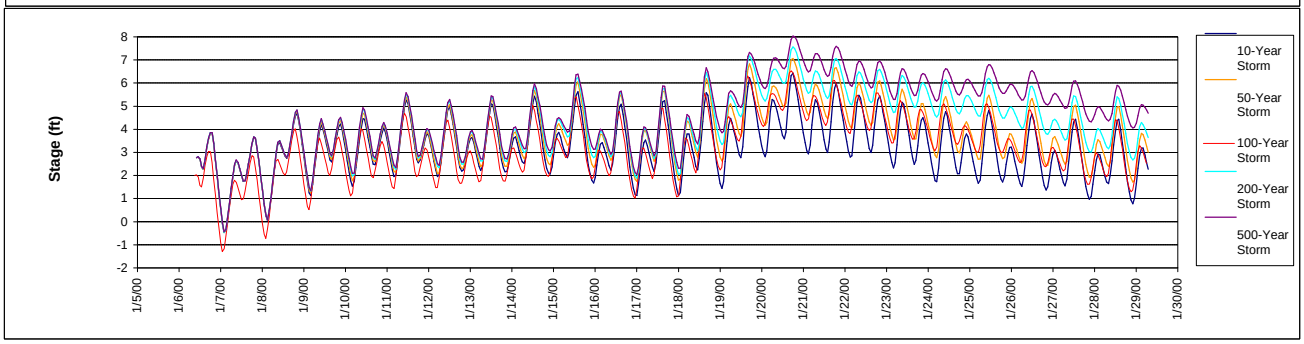
* Peak flow and peak stage may occur at different time.



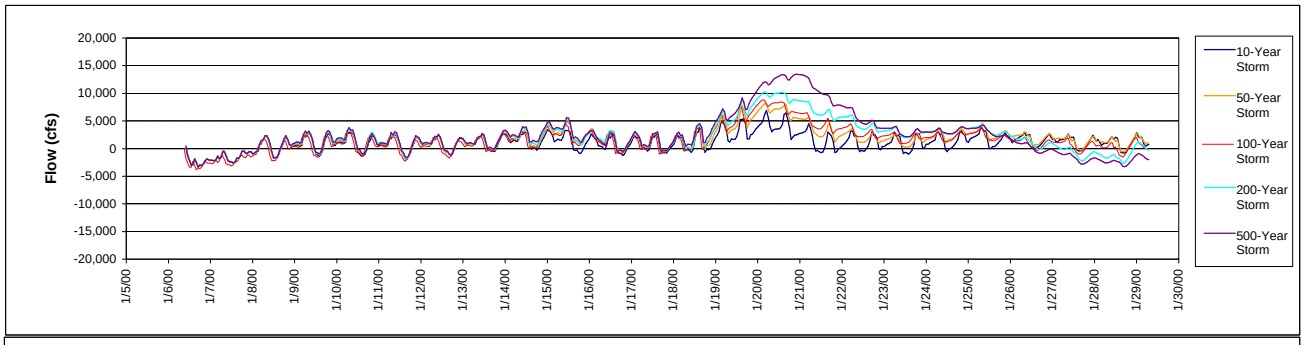


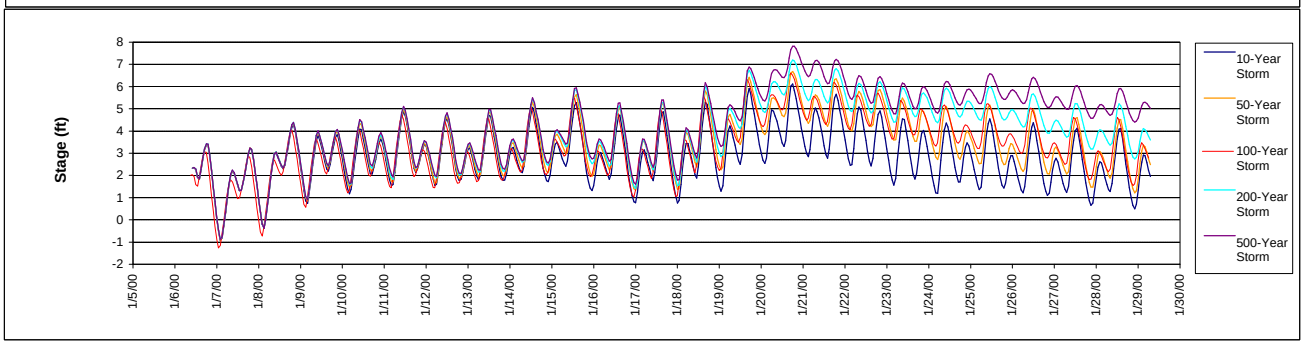
Hydrographs: Sacramento River Centering



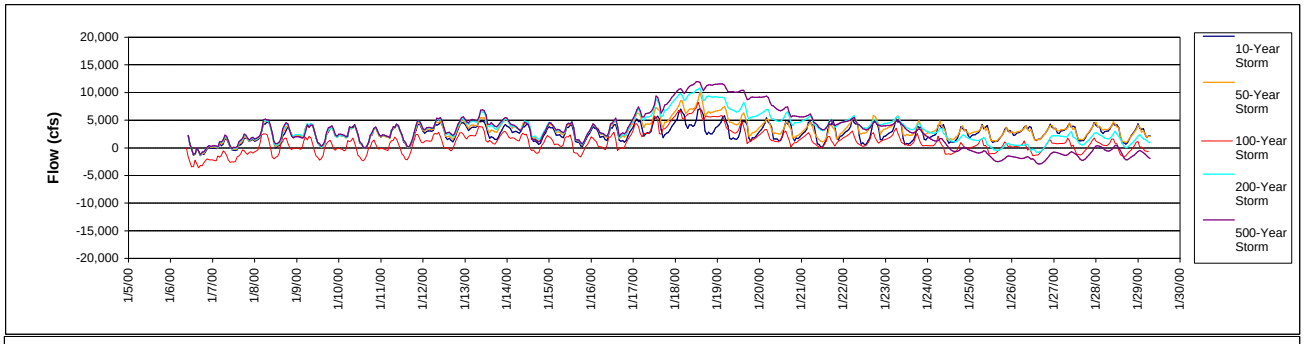


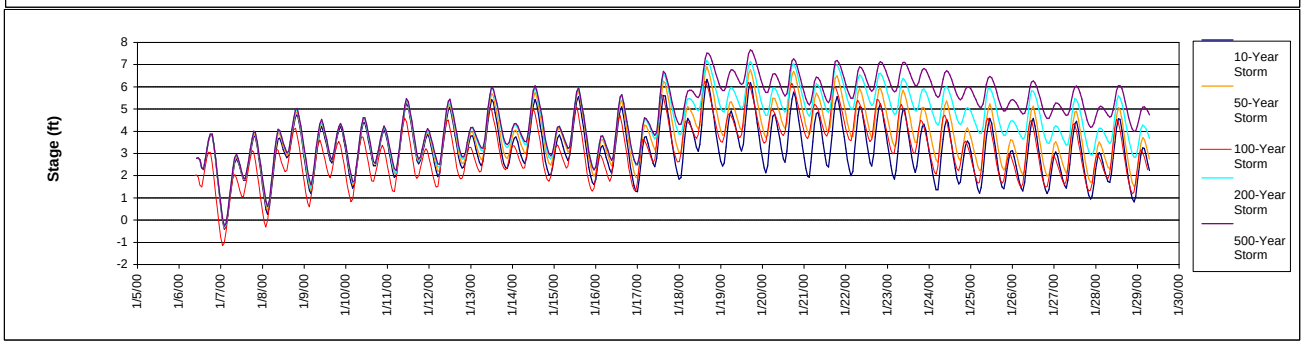
Hydrographs: Delta Centering





Hydrographs: San Joaquin River Centering



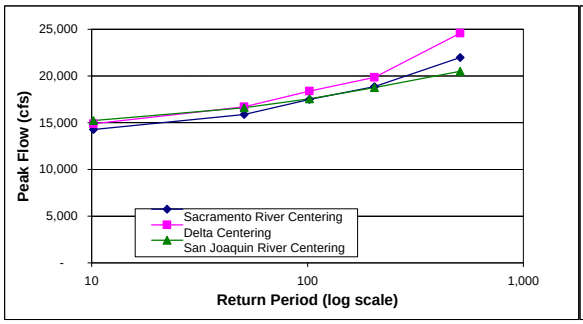


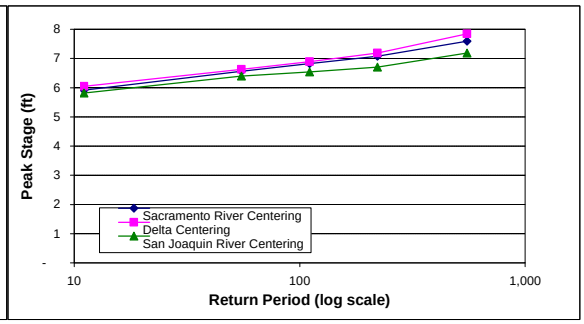
Station Name: NORKI326
Flow Boundary Node: No
Stage Boundary Node: No
Result Summary
Flood Peaks
Hydrographs

Flood Peaks

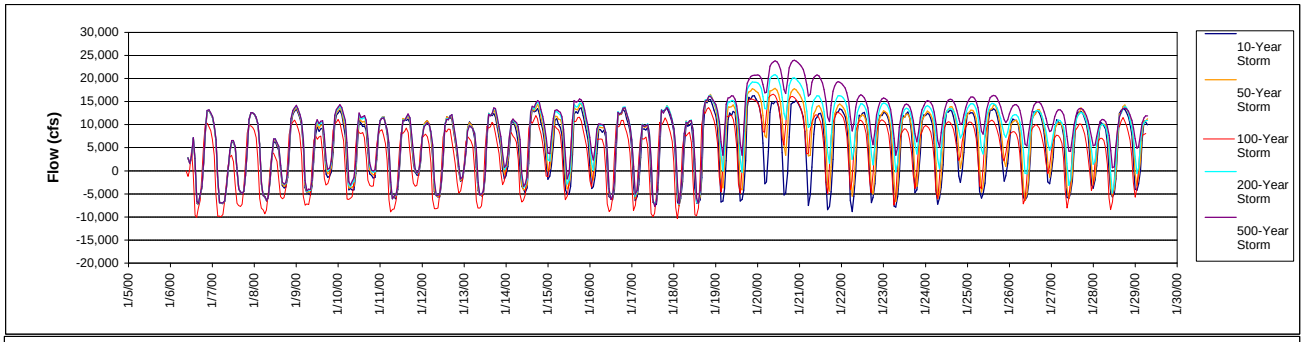
Return Period (yrs)	Storm Centering					
	Sacramento River		Delta		San Joaquin River	
	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)
10	13,436	5.6	14,051	5.8	14,371	5.6
50	15,023	6.3	15,841	6.4	15,754	6.1
100	16,638	6.6	17,517	6.6	16,713	6.3
200	17,998	6.8	19,018	6.9	17,911	6.4
500	21,133	7.3	23,745	7.6	19,660	6.9

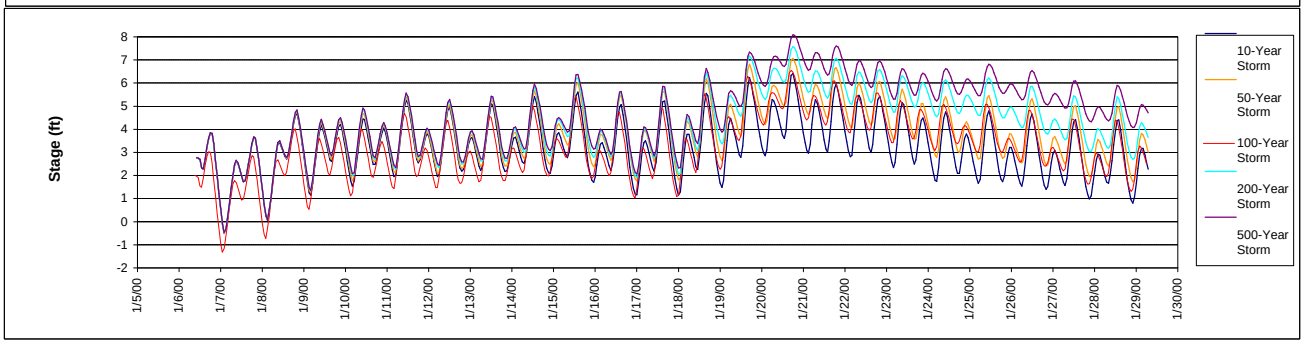
* Peak flow and peak stage may occur at different time.



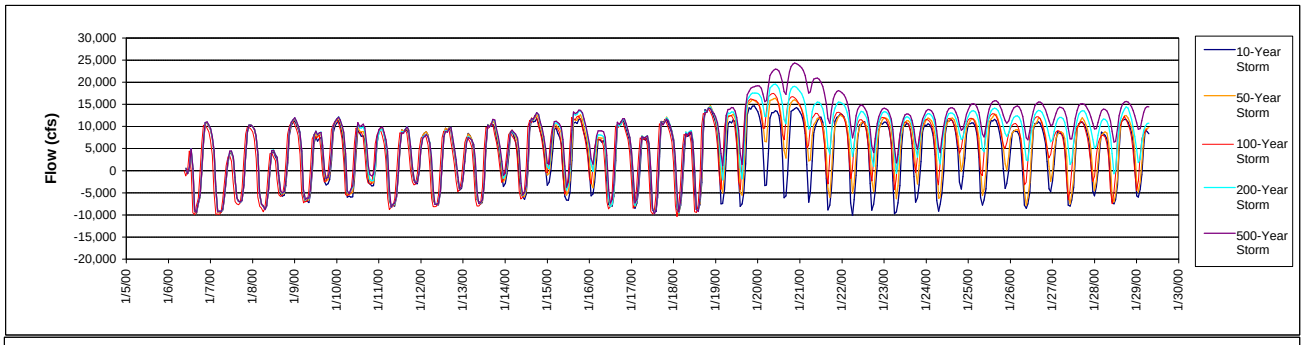


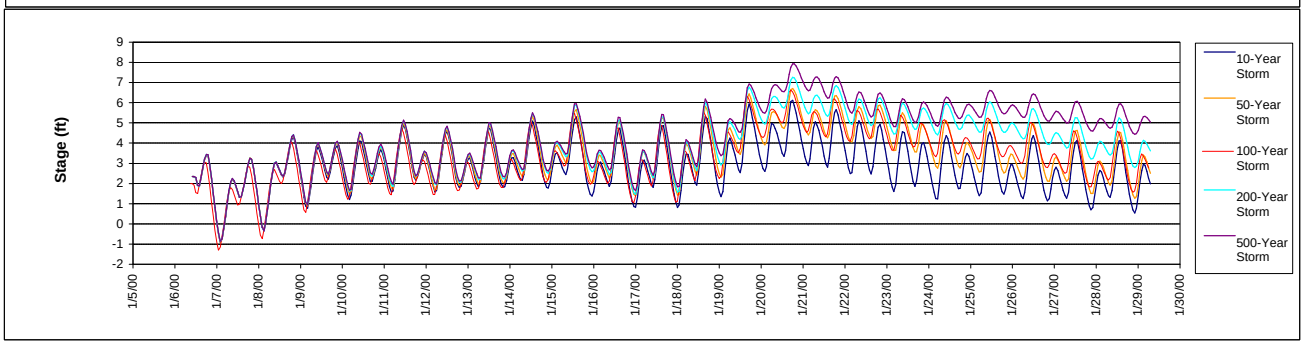
Hydrographs: Sacramento River Centering



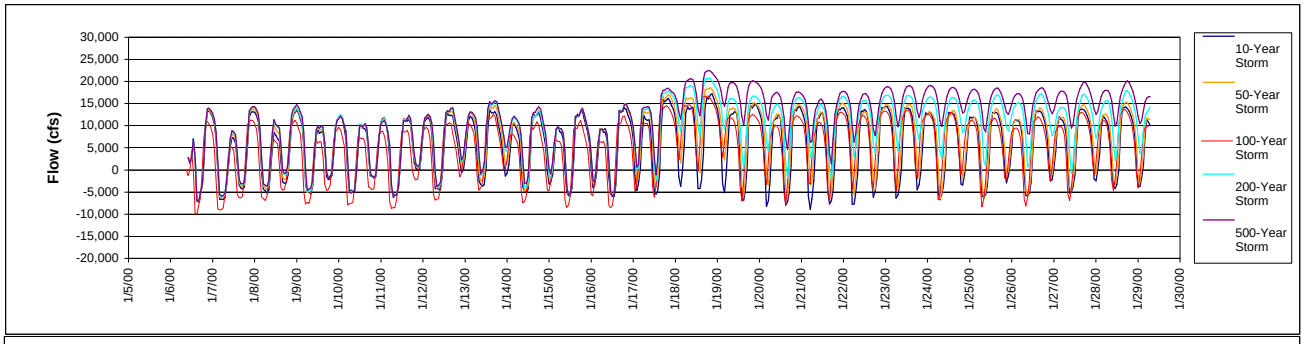


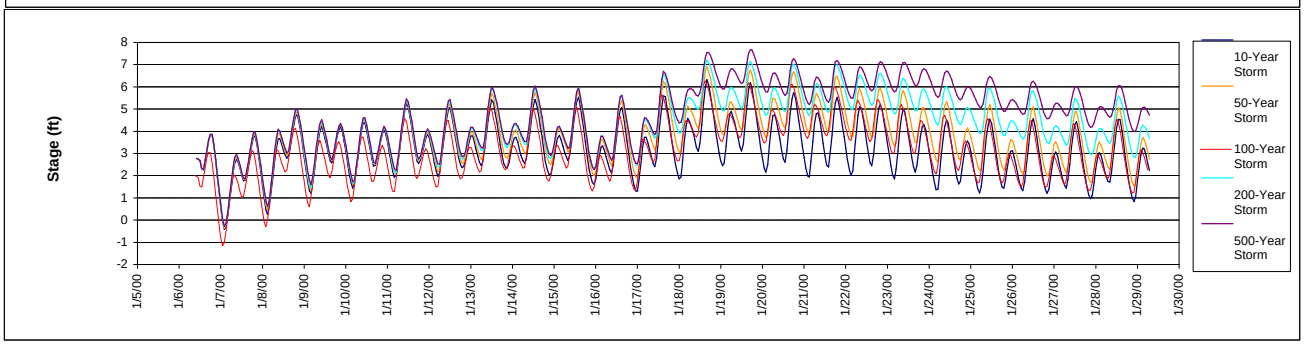
Hydrographs: Delta Centering





Hydrographs: San Joaquin River Centering





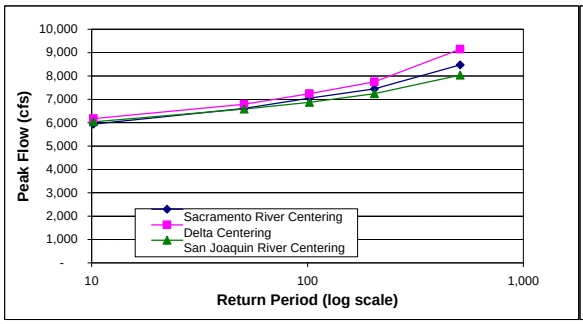
Piper Slough

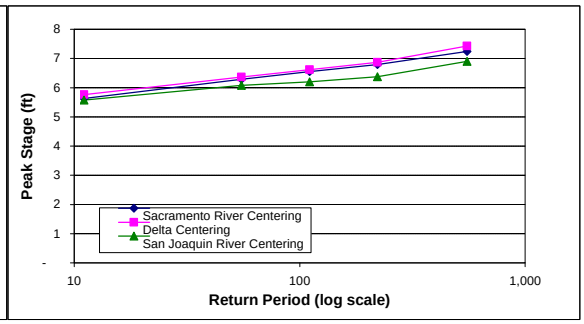
Station Name: SLPPR000
Flow Boundary Node: No
Stage Boundary Node: No
Result Summary
Flood Peaks
Hydrographs

Flood Peaks

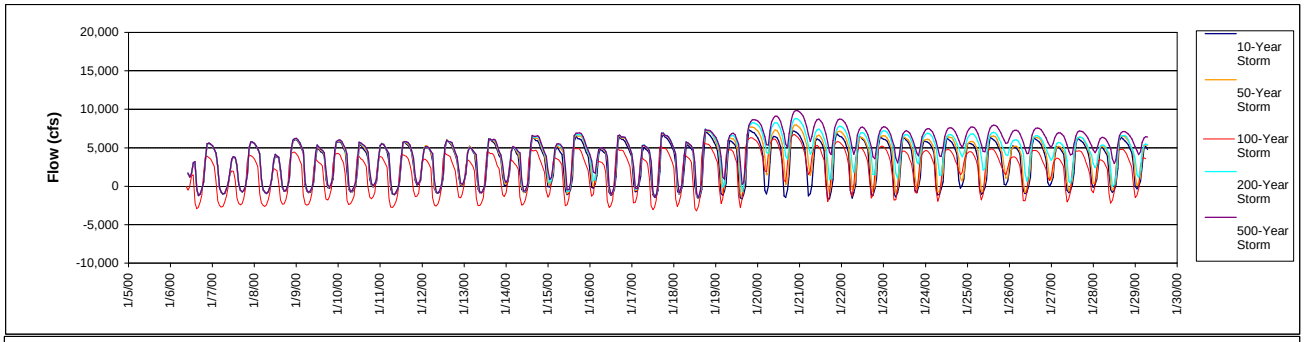
Return Period (yrs)	Storm Centering					
	Sacramento River		Delta		San Joaquin River	
	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)
10	5,602	5.4	5,833	5.5	5,699	5.3
50	6,280	6.0	6,455	6.1	6,247	5.8
100	6,708	6.3	6,902	6.4	6,533	5.9
200	7,115	6.5	7,414	6.6	6,904	6.1
500	8,131	7.0	8,806	7.2	7,701	6.6

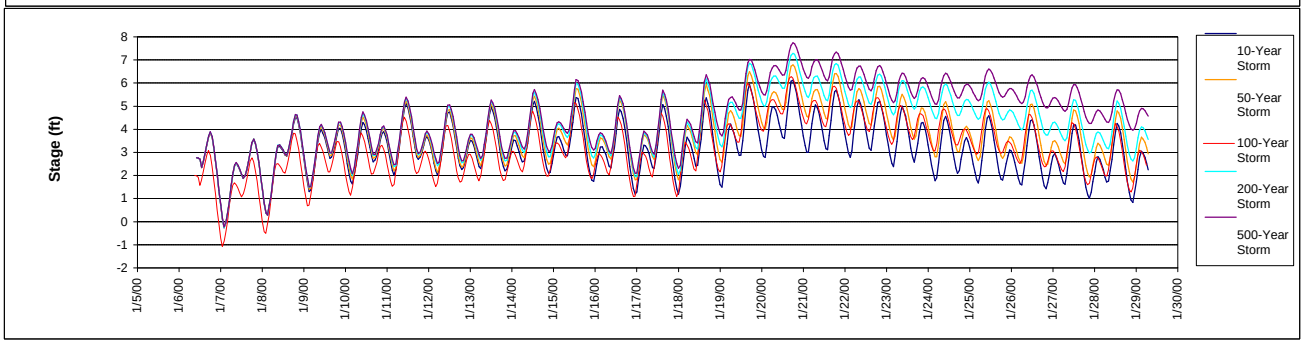
* Peak flow and peak stage may occur at different time.



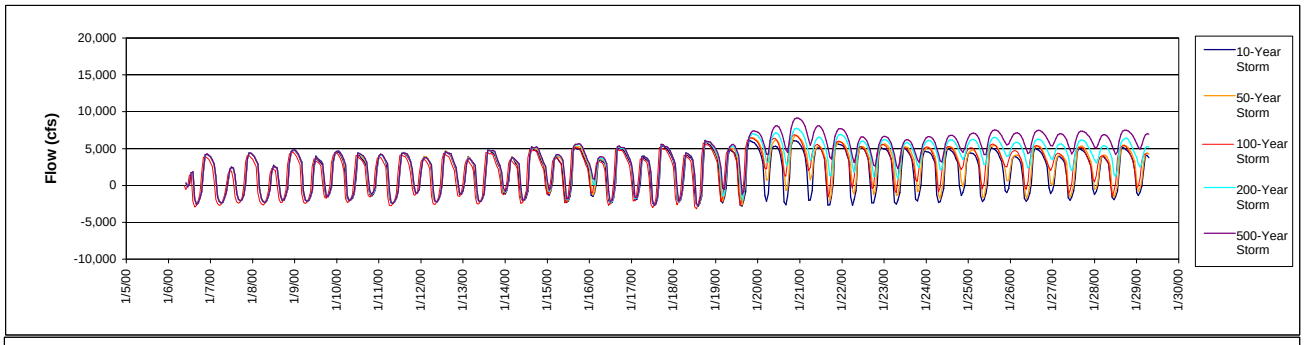


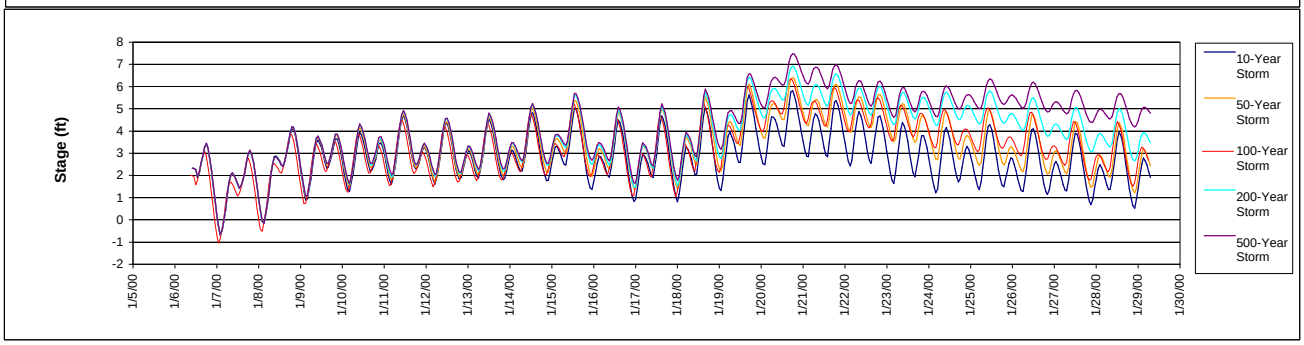
Hydrographs: Sacramento River Centering



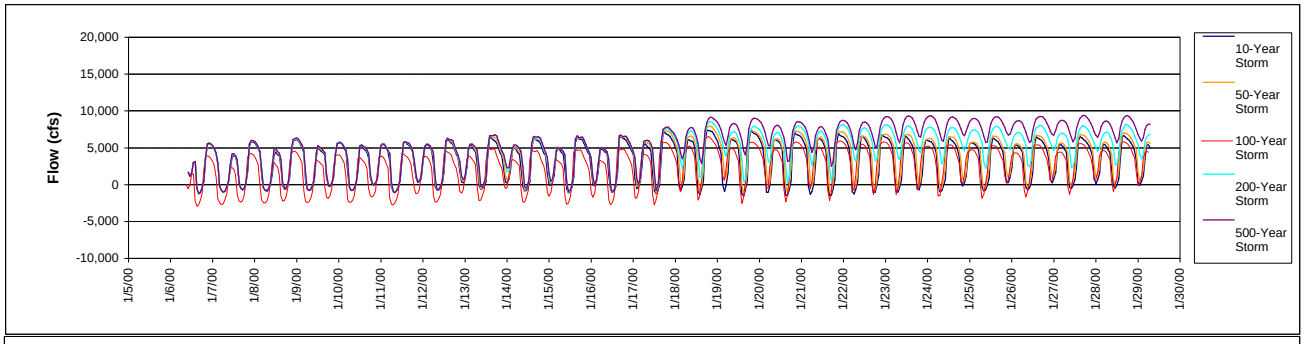


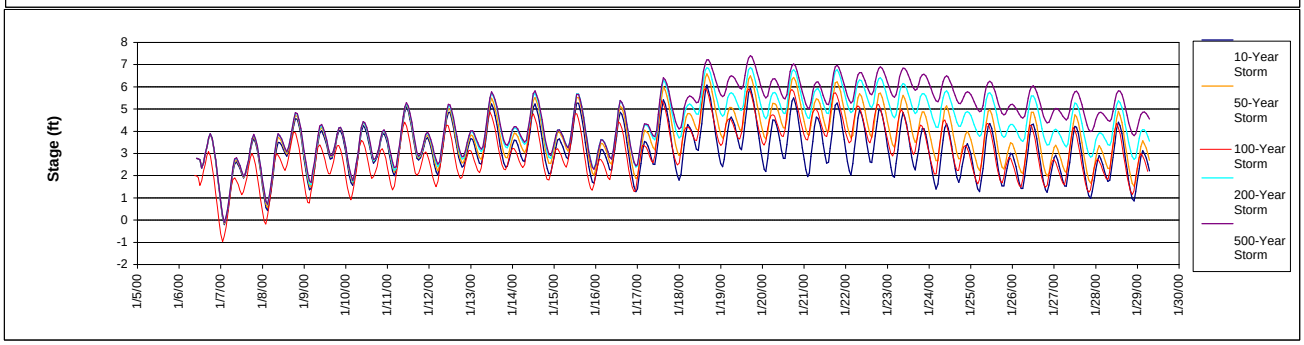
Hydrographs: Delta Centering





Hydrographs: San Joaquin River Centering





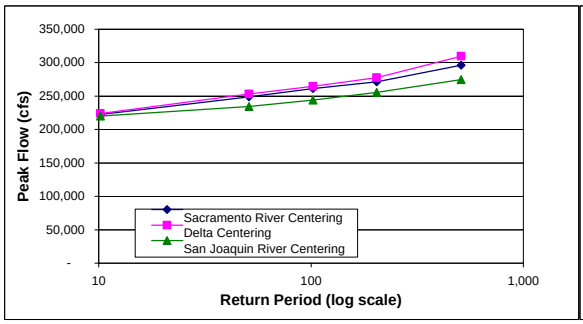
Jersey Point

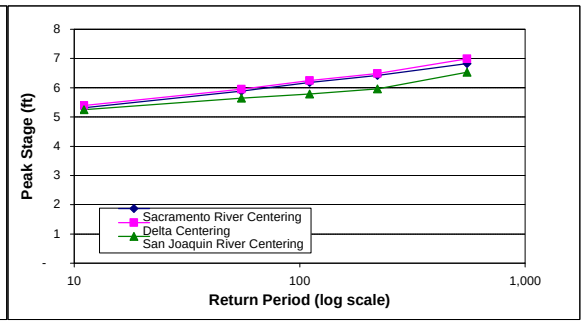
Station Name: RSAN018
Flow Boundary Node: No
Stage Boundary Node: No
Result Summary
Flood Peaks
Hydrographs

Flood Peaks

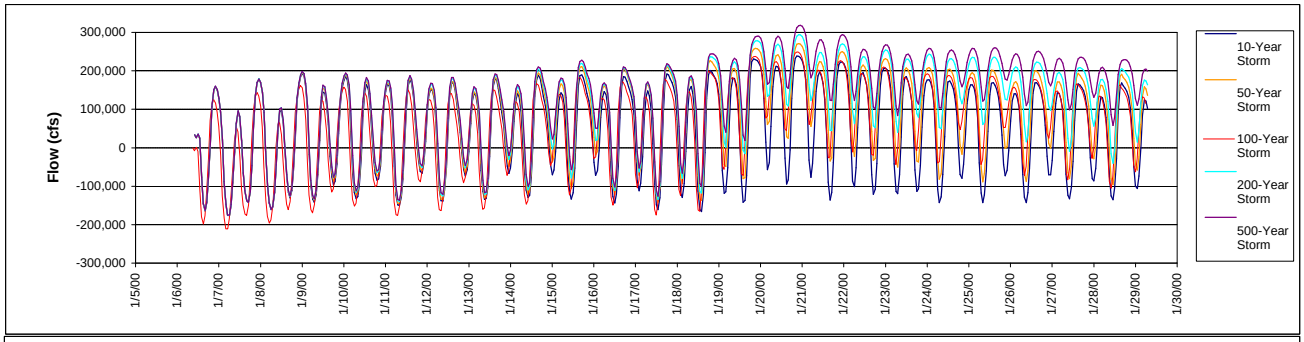
Return Period (yrs)	Storm Centering					
	Sacramento River		Delta		San Joaquin River	
	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)
10	210,535	5.0	211,912	5.1	208,313	5.0
50	237,109	5.6	241,264	5.7	222,467	5.4
100	249,237	5.9	252,963	6.0	232,076	5.5
200	259,664	6.2	265,880	6.2	243,740	5.7
500	284,195	6.6	297,678	6.7	262,845	6.3

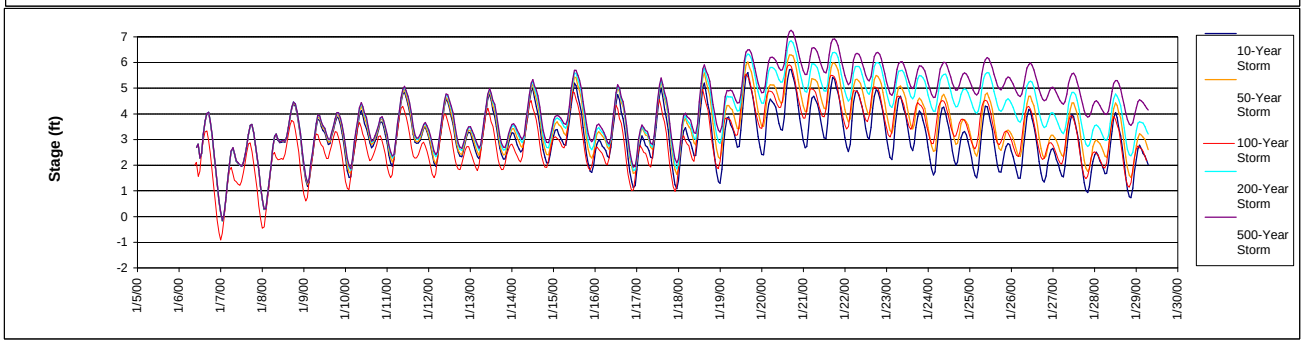
* Peak flow and peak stage may occur at different time.



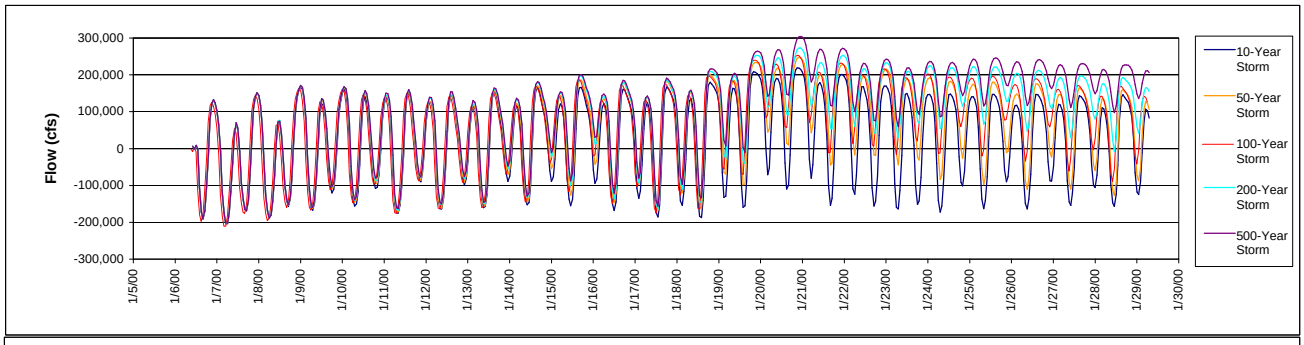


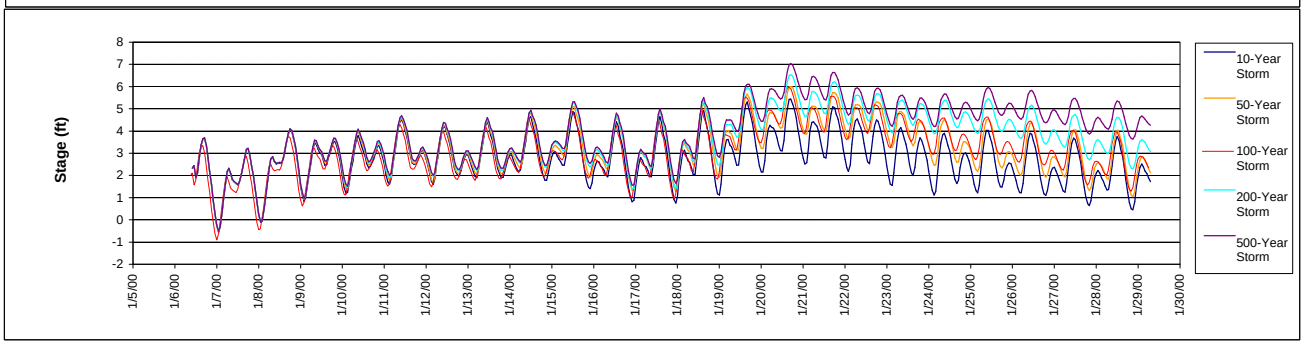
Hydrographs: Sacramento River Centering



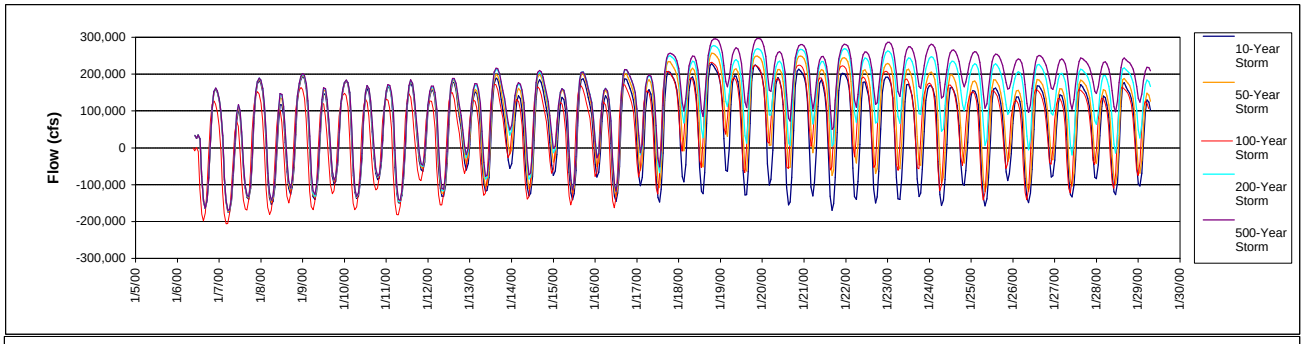


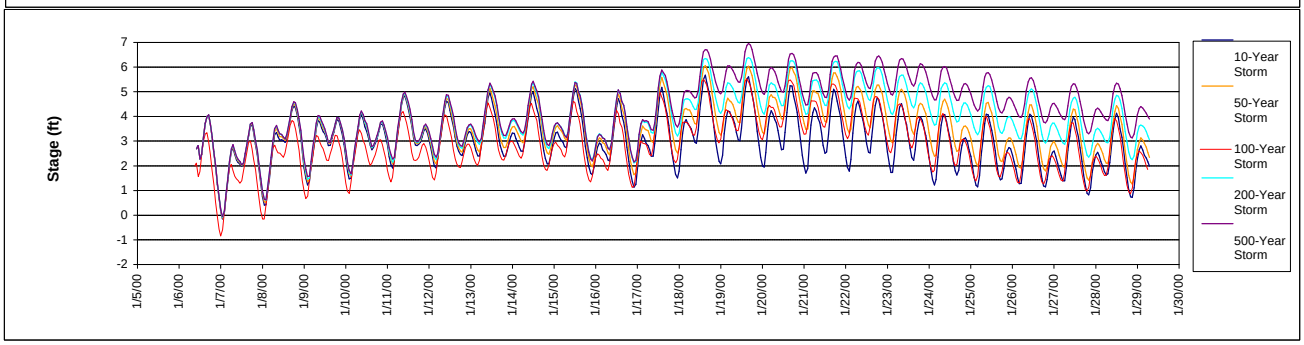
Hydrographs: Delta Centering





Hydrographs: San Joaquin River Centering



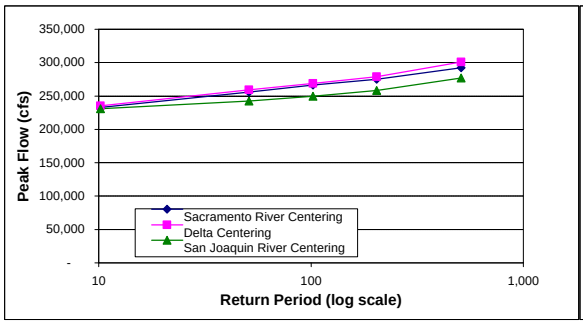


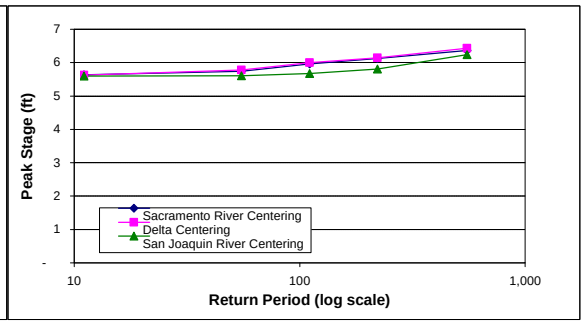
Station Name: RSAN007
Flow Boundary Node: No
Stage Boundary Node: No
Result Summary
Flood Peaks
Hydrographs

Flood Peaks

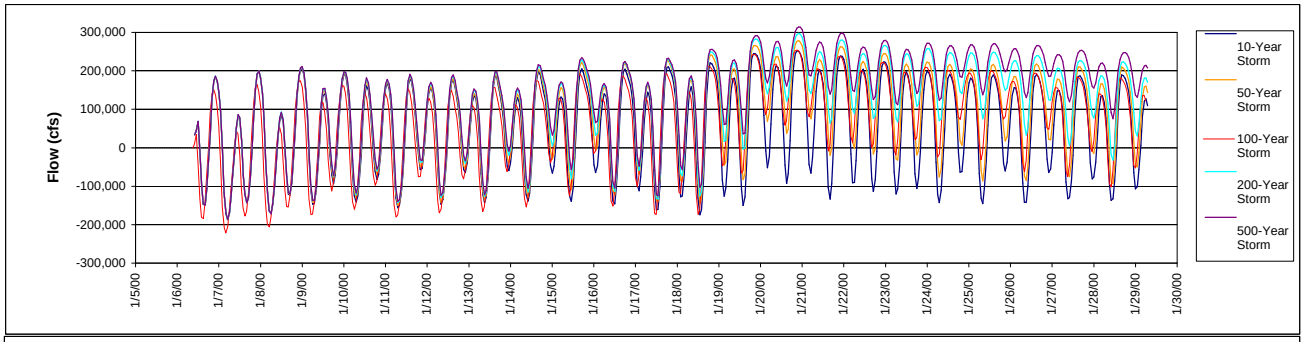
Return Period (yrs)	Storm Centering					
	Sacramento River		Delta		San Joaquin River	
	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)
10	221,124	5.4	223,387	5.4	219,232	5.4
50	244,181	5.5	247,321	5.5	230,645	5.4
100	254,373	5.7	256,820	5.8	237,578	5.4
200	263,087	5.9	266,983	5.9	246,424	5.6
500	280,402	6.1	289,014	6.2	265,353	6.0

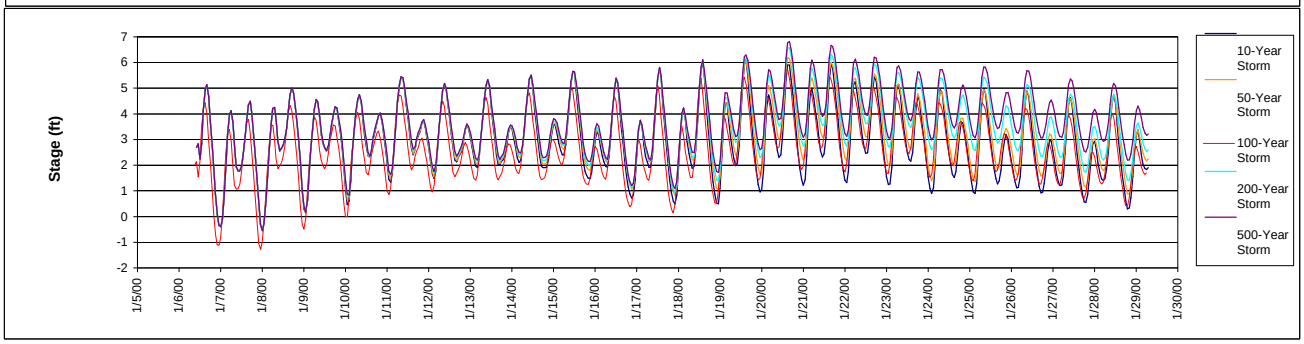
* Peak flow and peak stage may occur at different time.



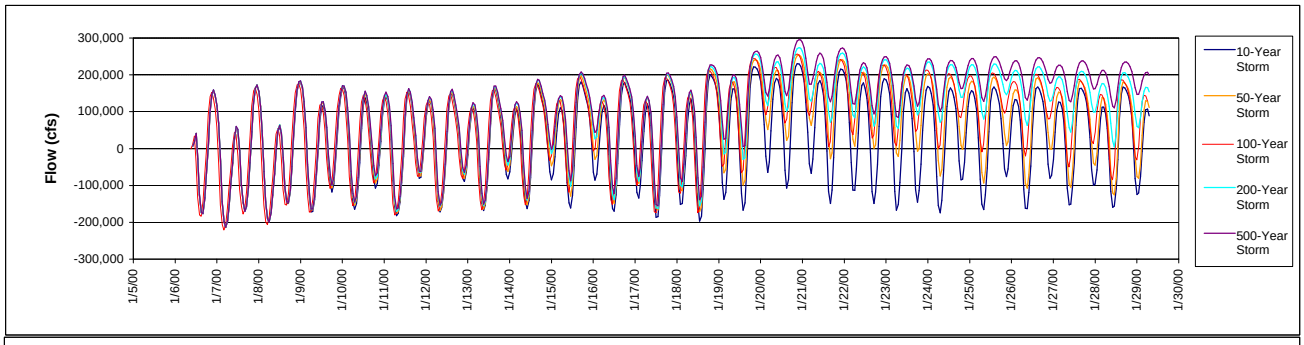


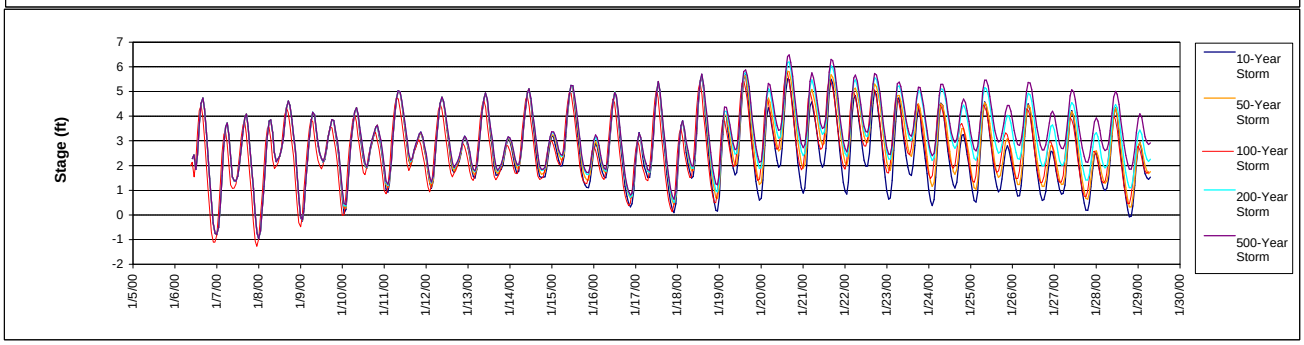
Hydrographs: Sacramento River Centering



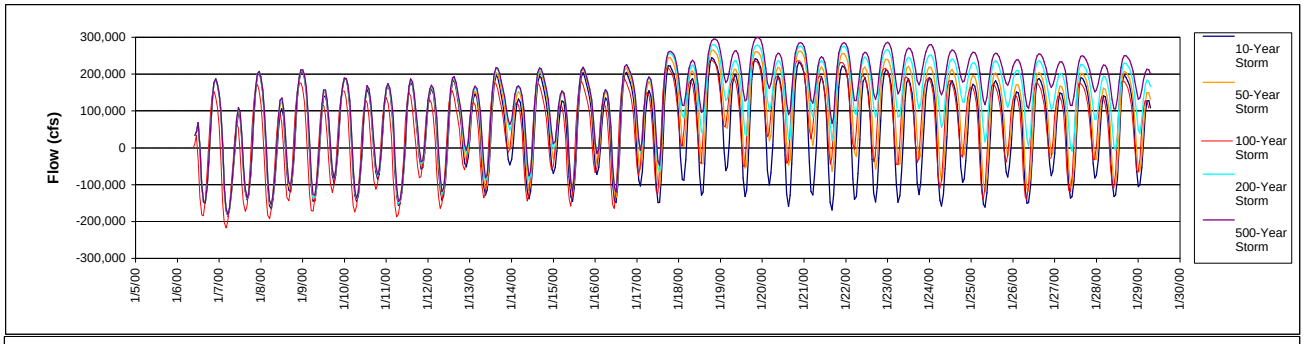


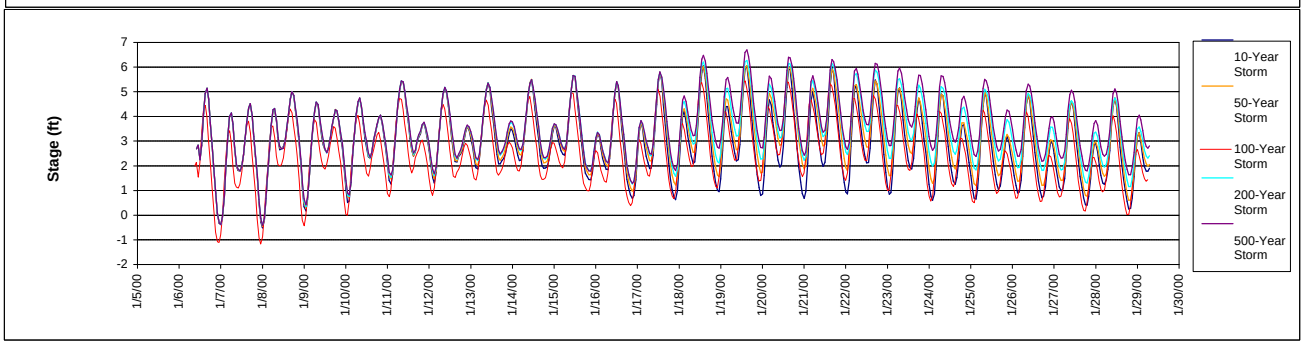
Hydrographs: Delta Centering





Hydrographs: San Joaquin River Centering





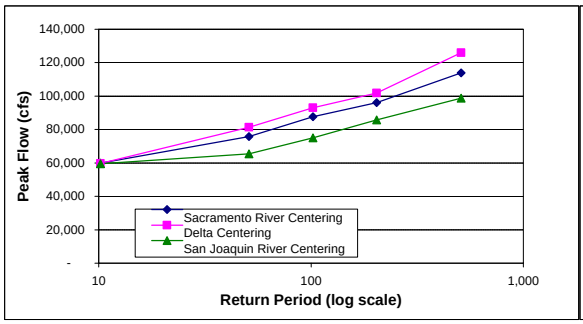
Geogiana Slough

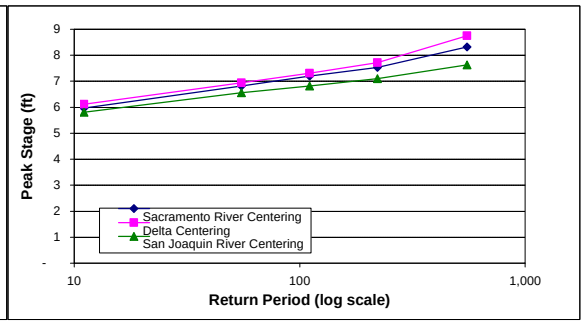
Station Name: 348_0
Flow Boundary Node: Yes (Stage Information may not be reliable.)
Stage Boundary Node: No
Result Summary
Flood Peaks
Hydrographs

Flood Peaks

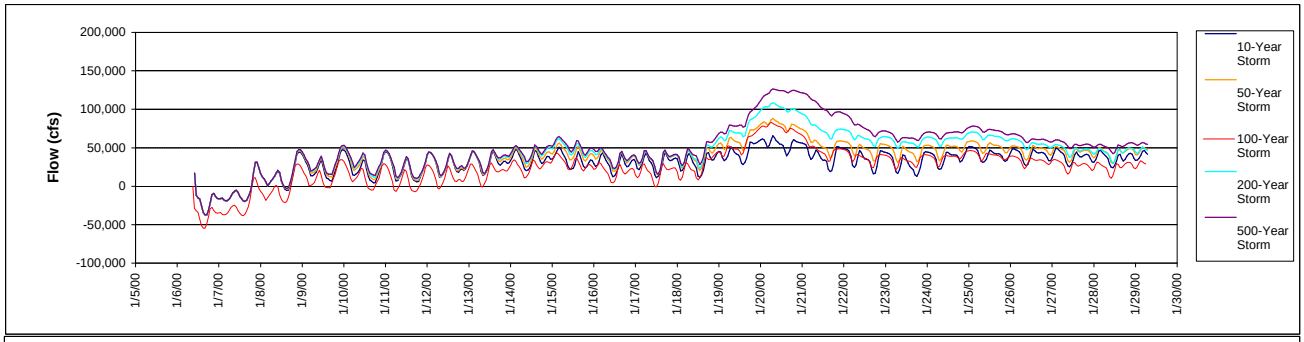
Return Period (yrs)	Storm Centering					
	Sacramento River		Delta		San Joaquin River	
	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)
10	55,117	5.7	55,043	5.8	54,832	5.5
50	71,105	6.5	76,568	6.6	60,670	6.3
100	82,908	6.9	88,219	7.0	70,213	6.5
200	91,405	7.2	97,025	7.4	80,974	6.8
500	109,124	8.0	121,198	8.4	94,007	7.3

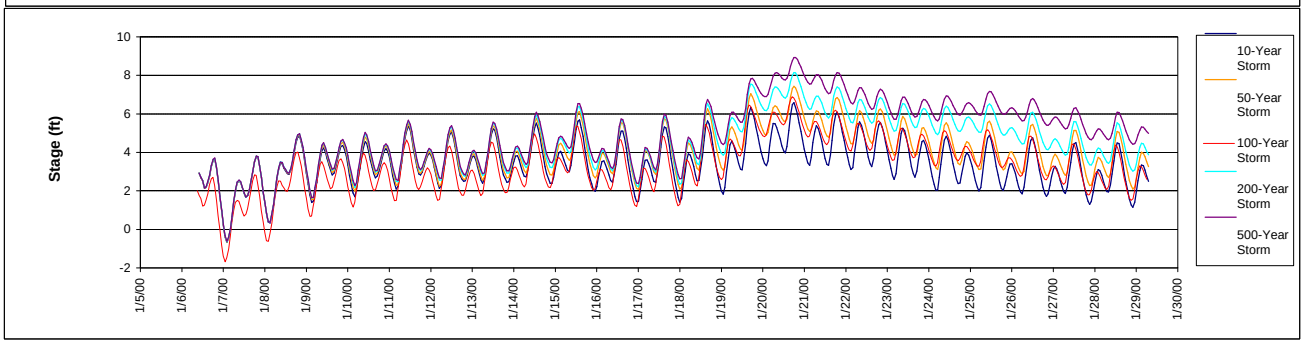
* Peak flow and peak stage may occur at different time.



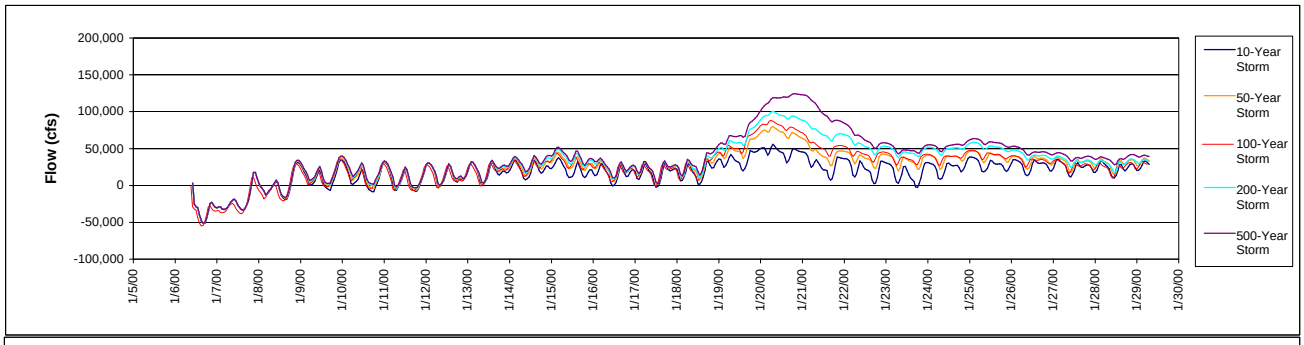


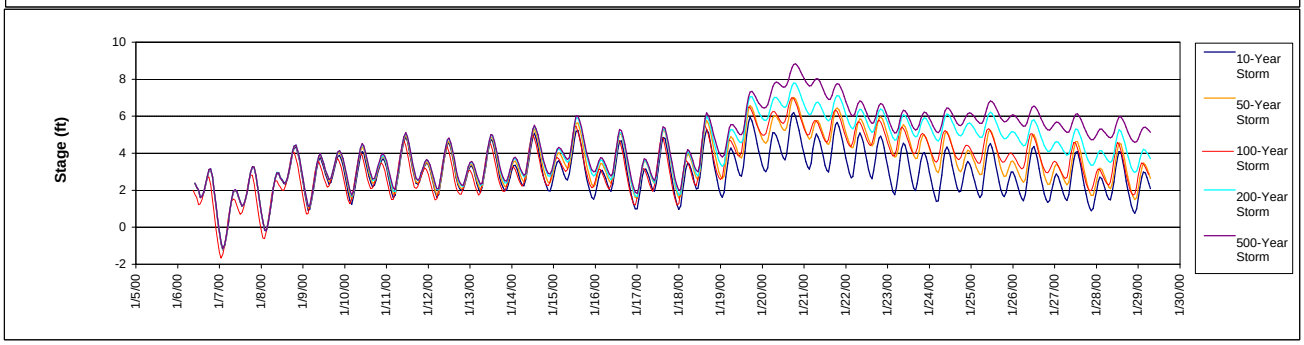
Hydrographs: Sacramento River Centering



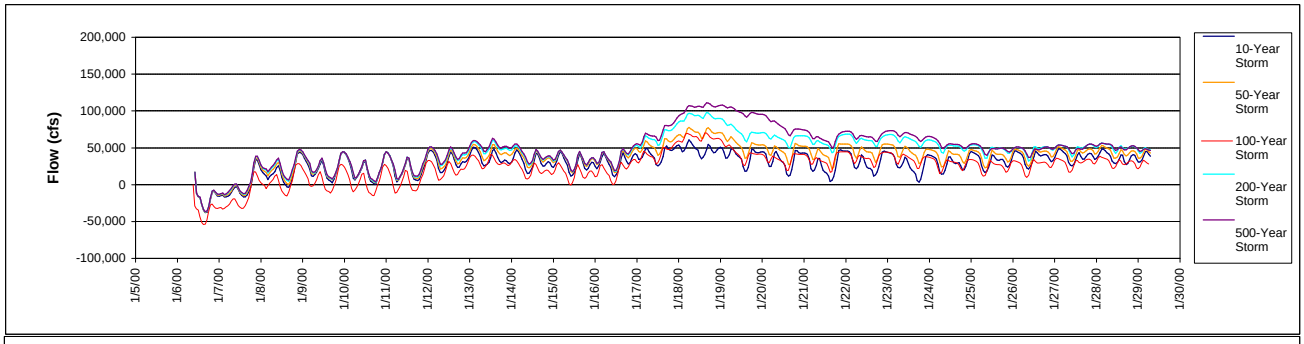


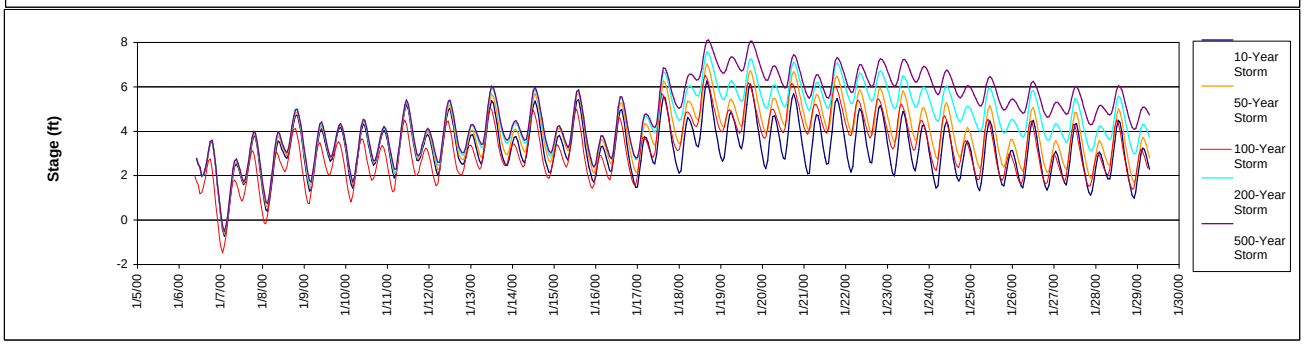
Hydrographs: Delta Centering





Hydrographs: San Joaquin River Centering



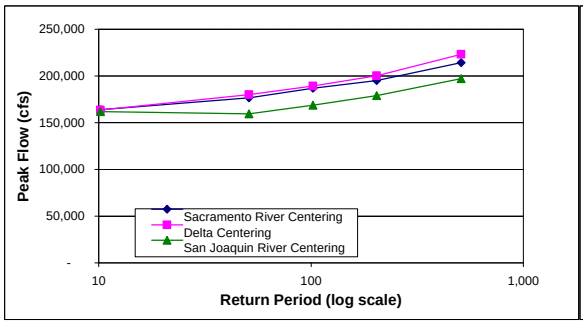


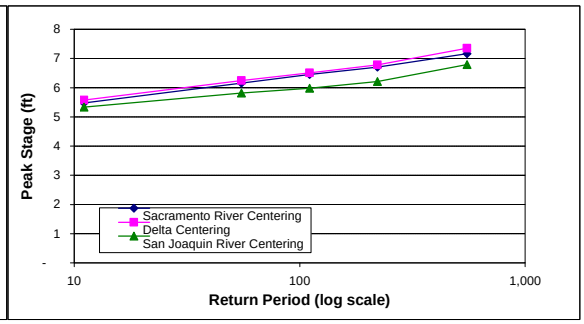
Station Name: 048_0
Flow Boundary Node: Yes (Stage Information may not be reliable.)
Stage Boundary Node: No
Result Summary
Flood Peaks
Hydrographs

Flood Peaks

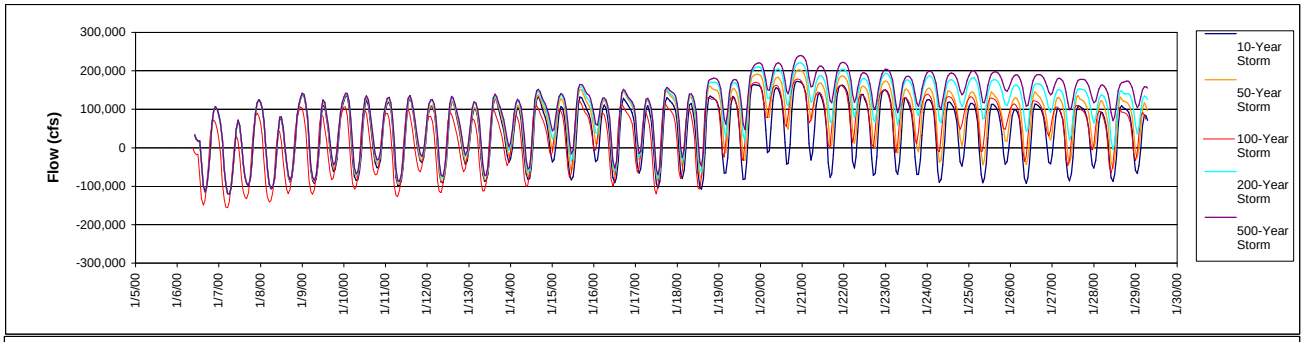
Return Period (yrs)	Storm Centering					
	Sacramento River		Delta		San Joaquin River	
	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)
10	155,415	5.2	155,305	5.3	153,300	5.1
50	168,214	5.9	171,630	6.0	151,103	5.6
100	178,281	6.2	180,930	6.2	160,305	5.7
200	186,743	6.4	191,863	6.5	170,684	5.9
500	205,673	6.9	214,683	7.1	188,789	6.5

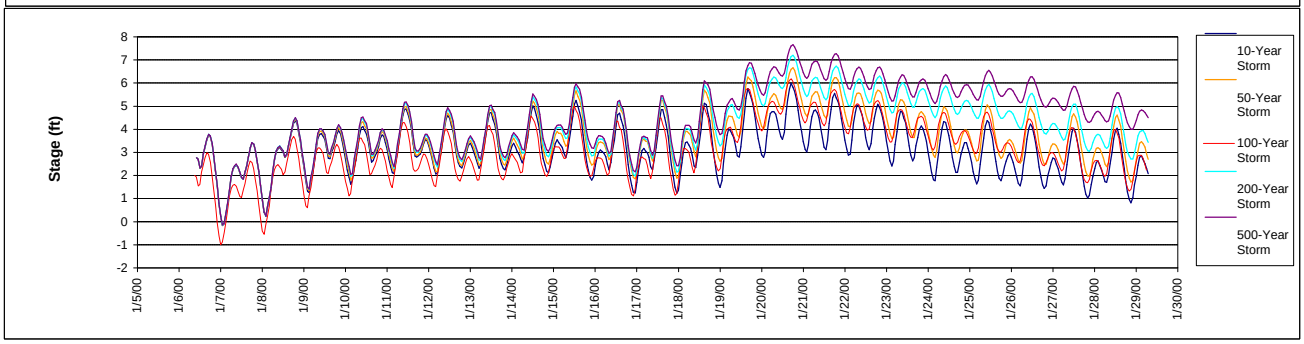
* Peak flow and peak stage may occur at different time.



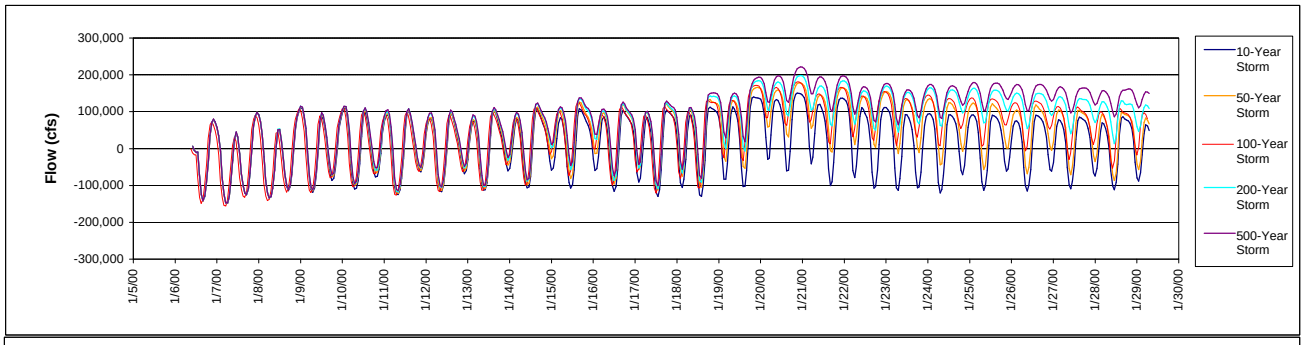


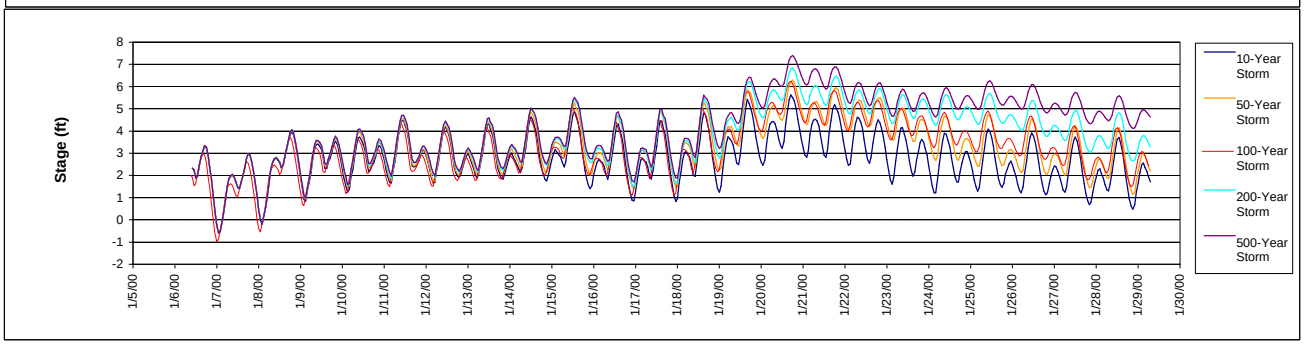
Hydrographs: Sacramento River Centering



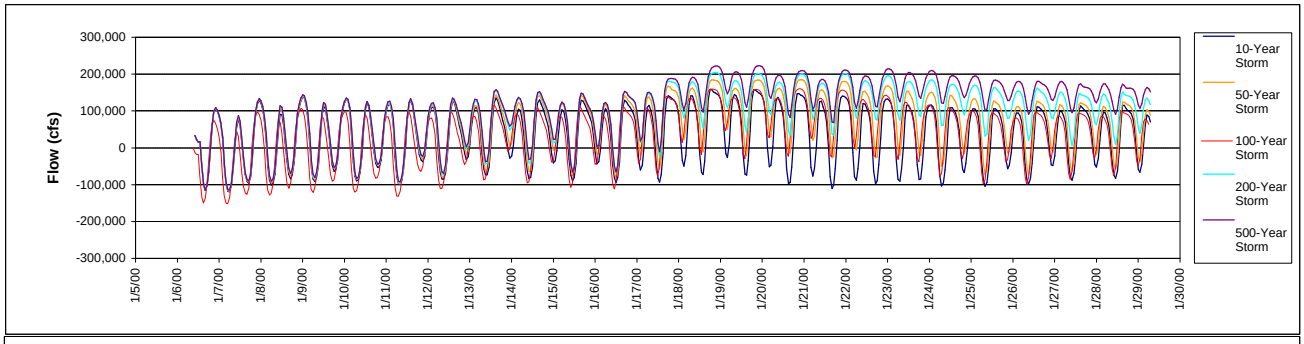


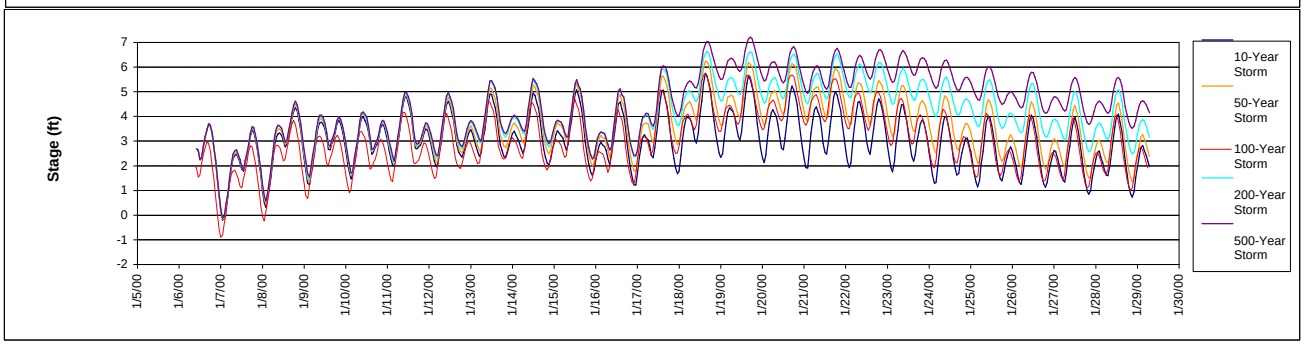
Hydrographs: Delta Centering





Hydrographs: San Joaquin River Centering





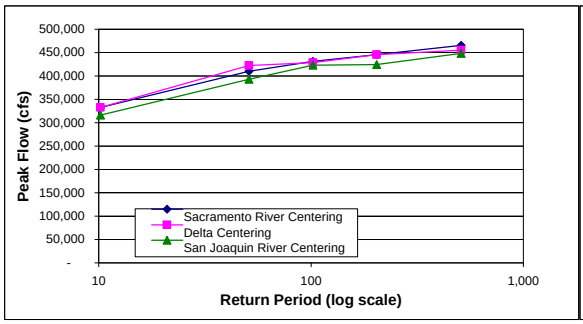
Collinsville

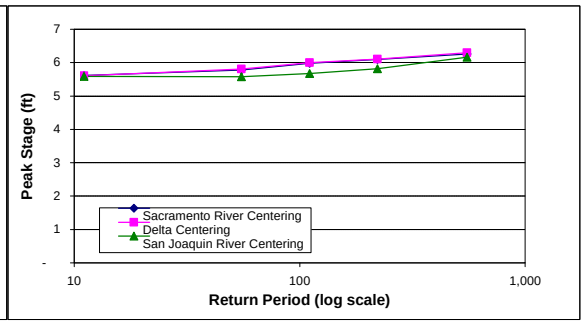
Station Name: RSAC081
Flow Boundary Node: No
Stage Boundary Node: No
Result Summary
Flood Peaks
Hydrographs

Flood Peaks

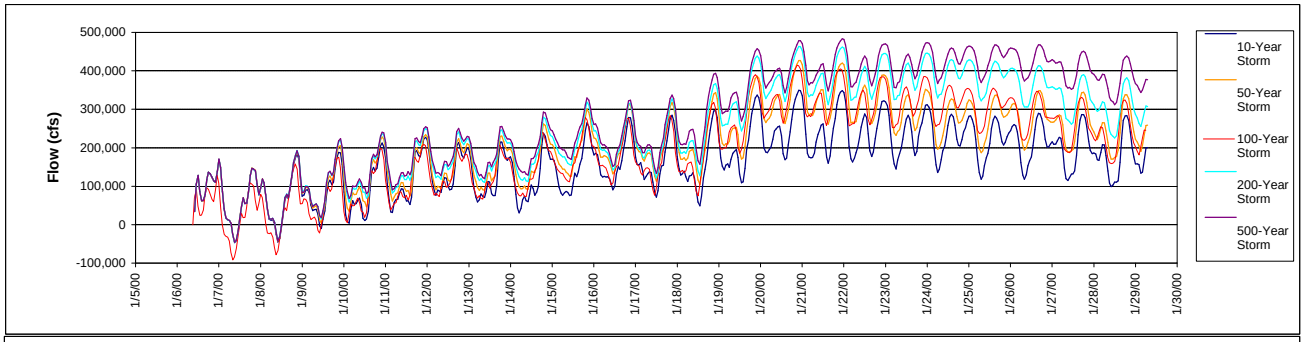
Return Period (yrs)	Storm Centering					
	Sacramento River		Delta		San Joaquin River	
	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)
10	315,604	5.4	315,642	5.4	299,113	5.4
50	393,046	5.5	405,490	5.6	375,763	5.3
100	414,068	5.7	411,946	5.8	406,099	5.4
200	428,884	5.9	428,746	5.9	407,616	5.6
500	448,892	6.0	438,662	6.1	431,773	5.9

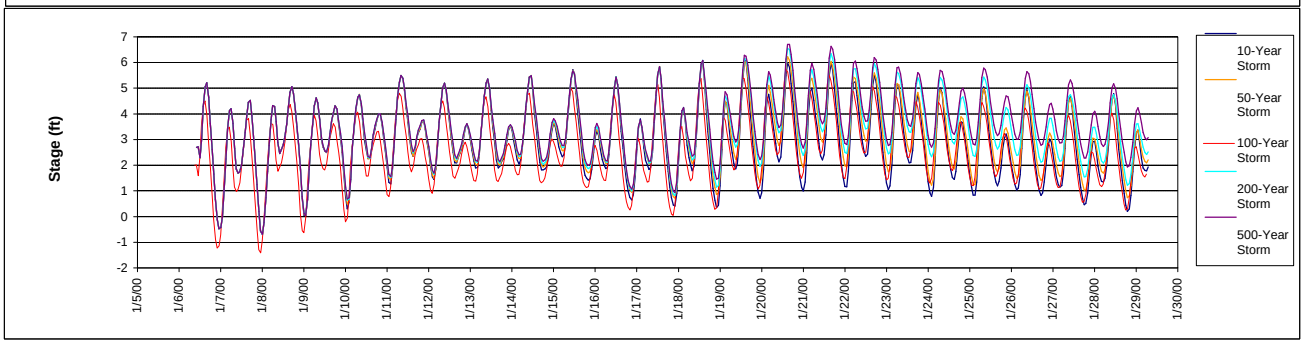
* Peak flow and peak stage may occur at different time.



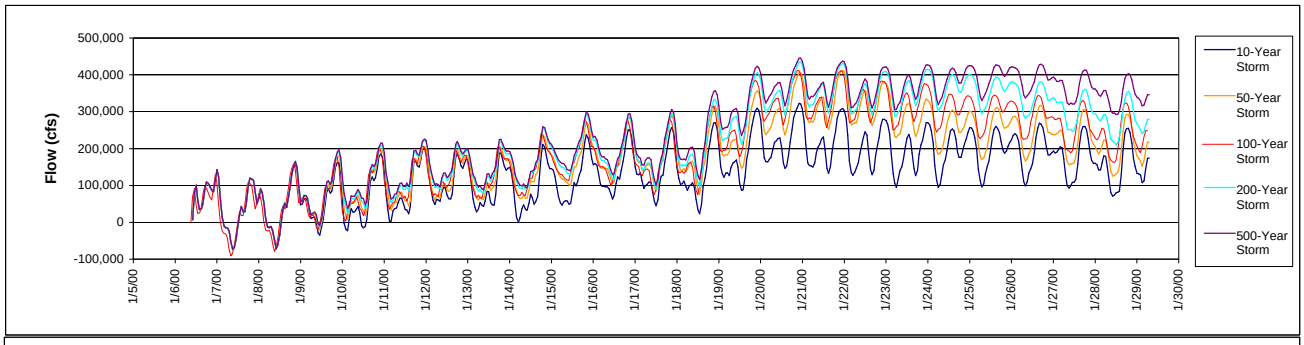


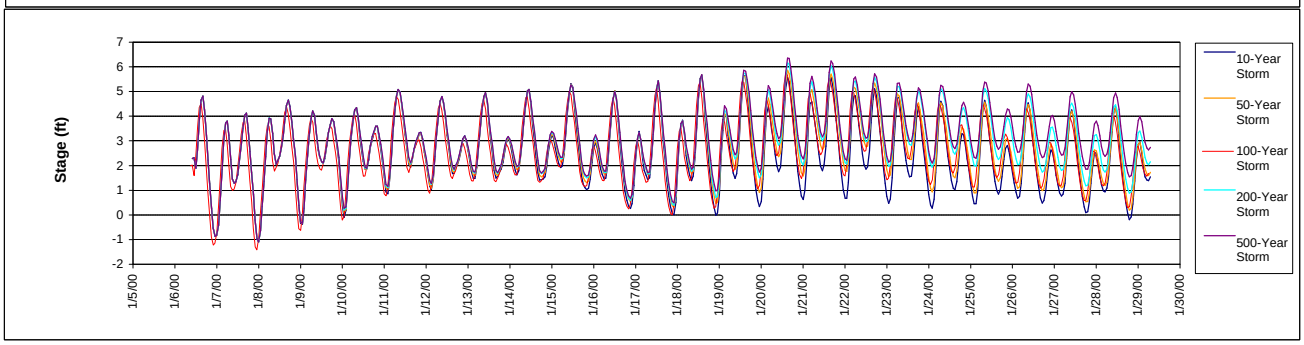
Hydrographs: Sacramento River Centering



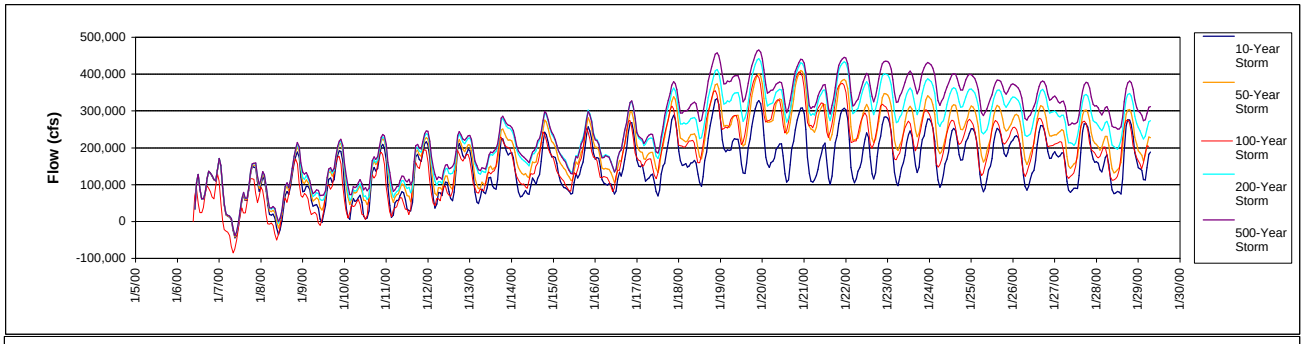


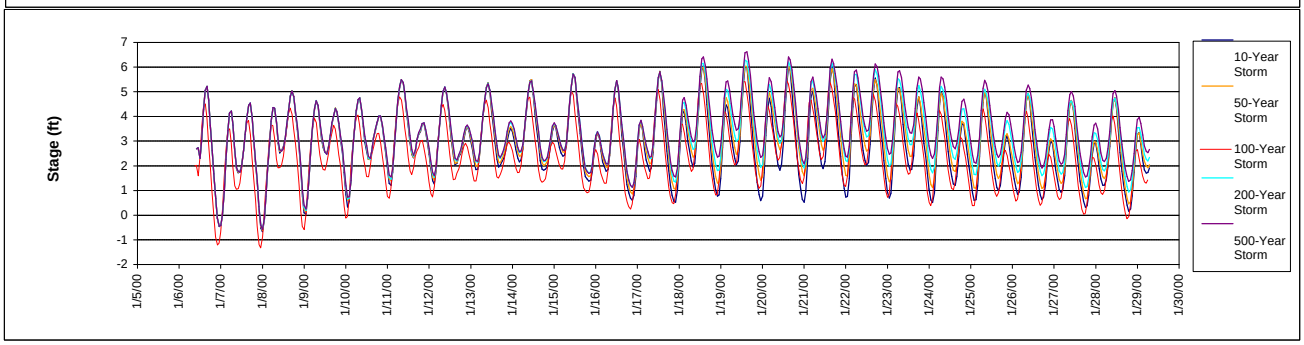
Hydrographs: Delta Centering





Hydrographs: San Joaquin River Centering





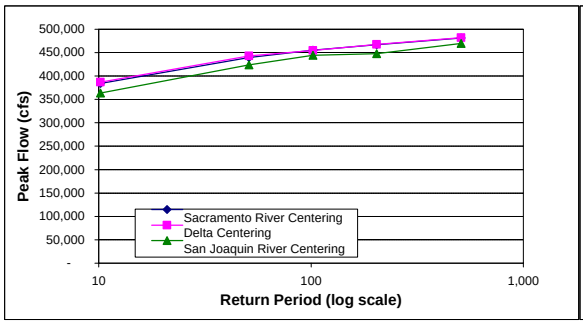
Mallard Slough

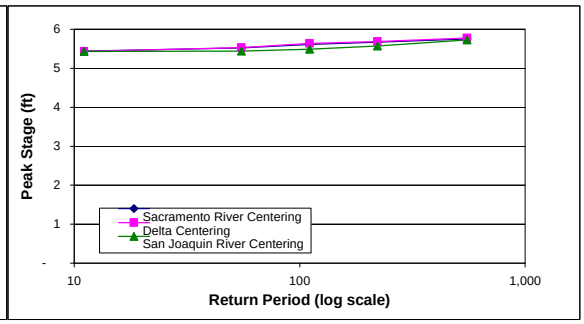
Station Name: SLML001
Flow Boundary Node: No
Stage Boundary Node: No
Result Summary
Flood Peaks
Hydrographs

Flood Peaks

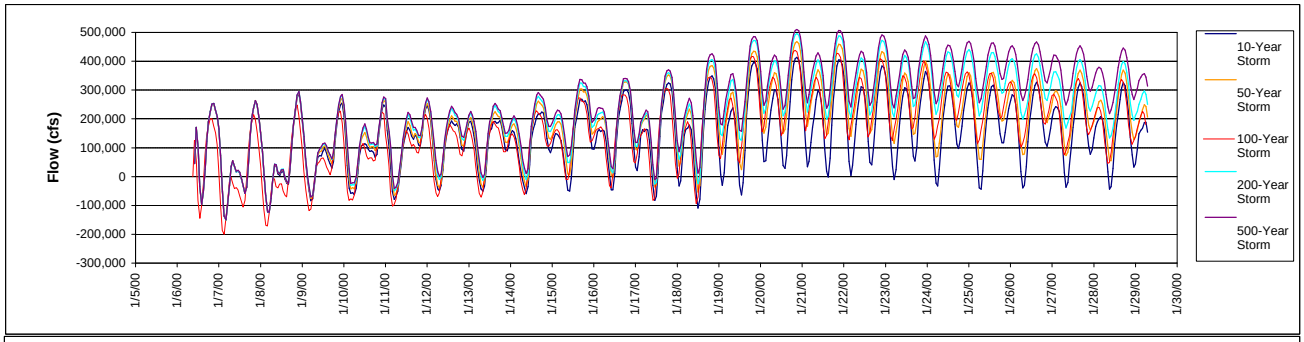
Return Period (yrs)	Storm Centering					
	Sacramento River		Delta		San Joaquin River	
	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)
10	367,408	5.2	370,087	5.2	346,847	5.2
50	422,453	5.3	425,798	5.3	407,317	5.2
100	438,119	5.4	438,023	5.4	427,716	5.3
200	450,401	5.5	450,646	5.5	430,598	5.4
500	464,725	5.6	464,883	5.6	452,847	5.5

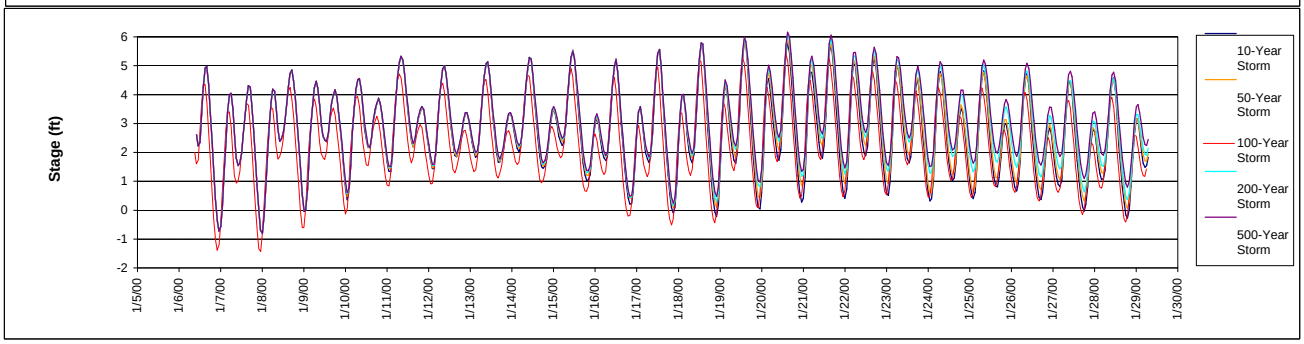
* Peak flow and peak stage may occur at different time.



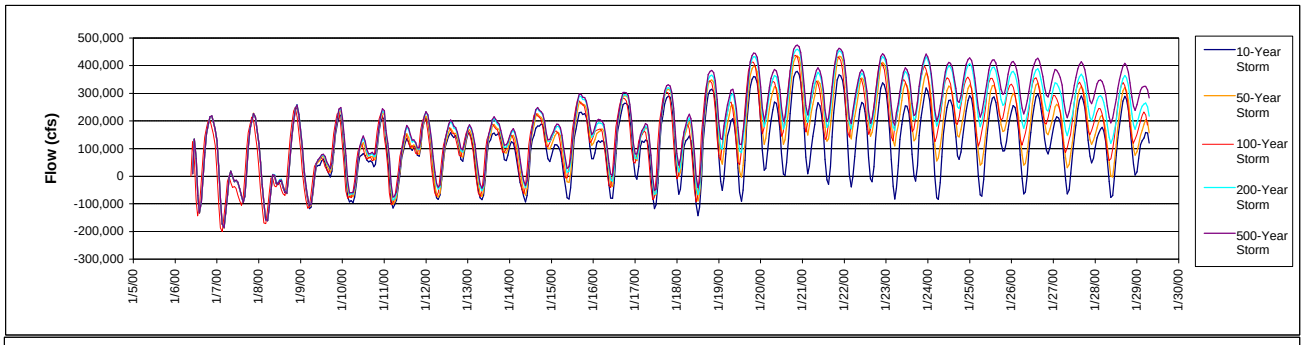


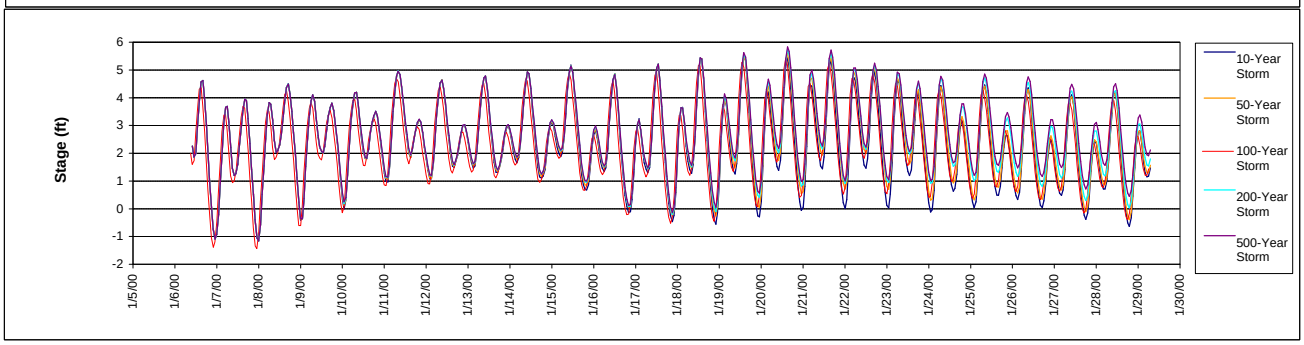
Hydrographs: Sacramento River Centering



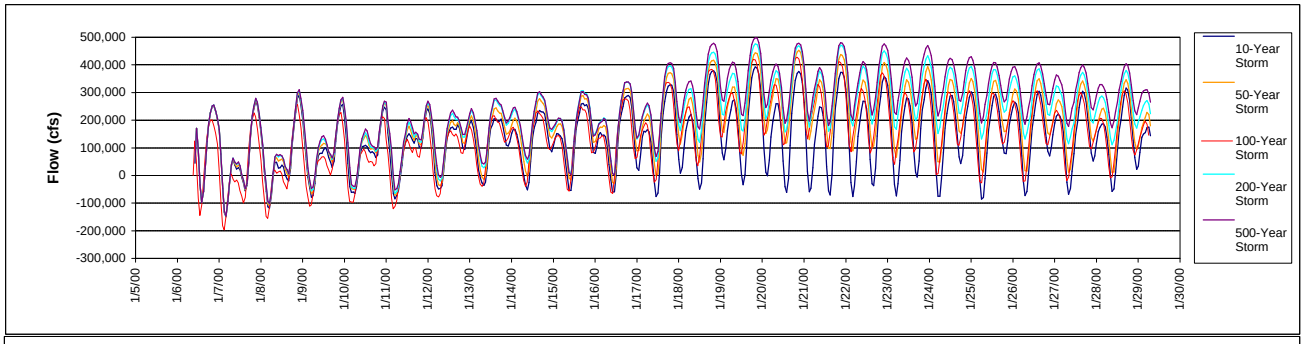


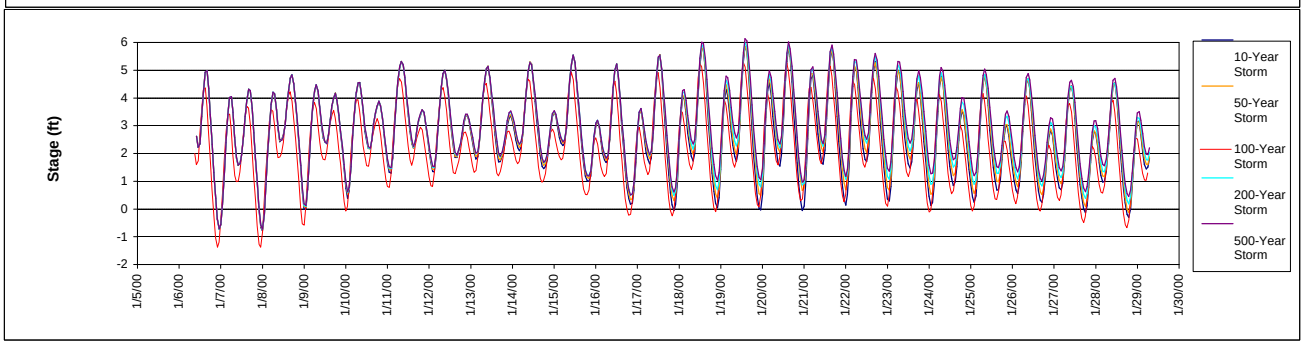
Hydrographs: Delta Centering





Hydrographs: San Joaquin River Centering



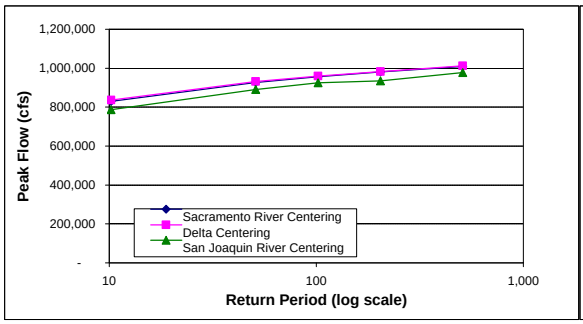


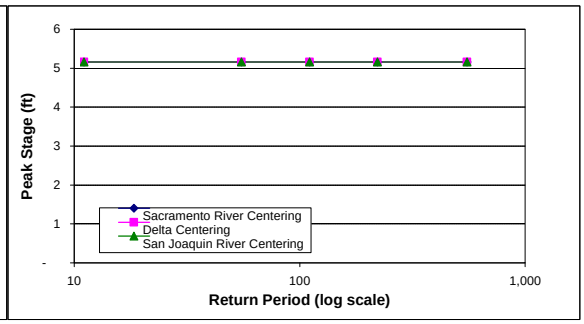
Station Name: RSAC054
Flow Boundary Node: No
Stage Boundary Node: Yes (Flow Information may not be reliable.)
Result Summary
Flood Peaks
Hydrographs

Flood Peaks

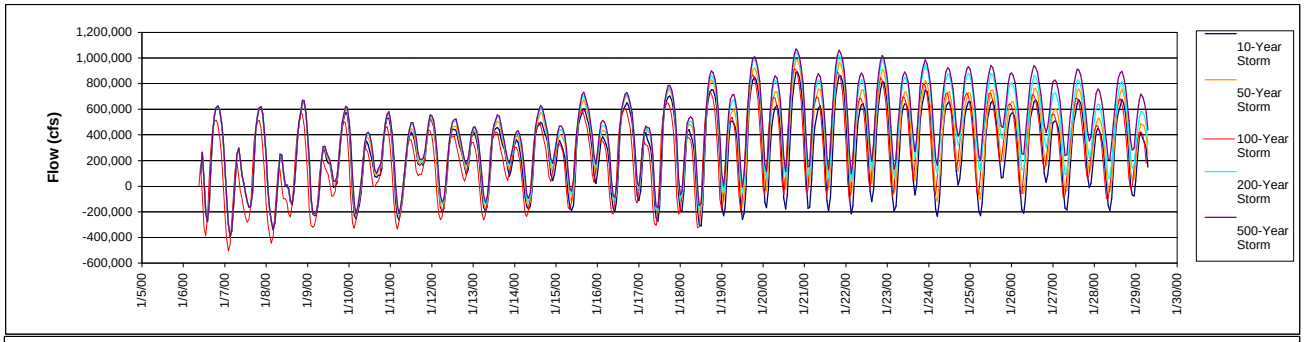
Return Period (yrs)	Storm Centering					
	Sacramento River		Delta		San Joaquin River	
	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)	Flow (cfs)	Stage (ft)
10	788,837	5.0	795,763	5.0	746,988	5.0
50	885,223	5.0	891,283	5.0	850,405	5.0
100	916,402	5.0	919,138	5.0	884,693	5.0
200	940,173	5.0	941,368	5.0	894,973	5.0
500	967,946	5.0	971,842	5.0	937,654	5.0

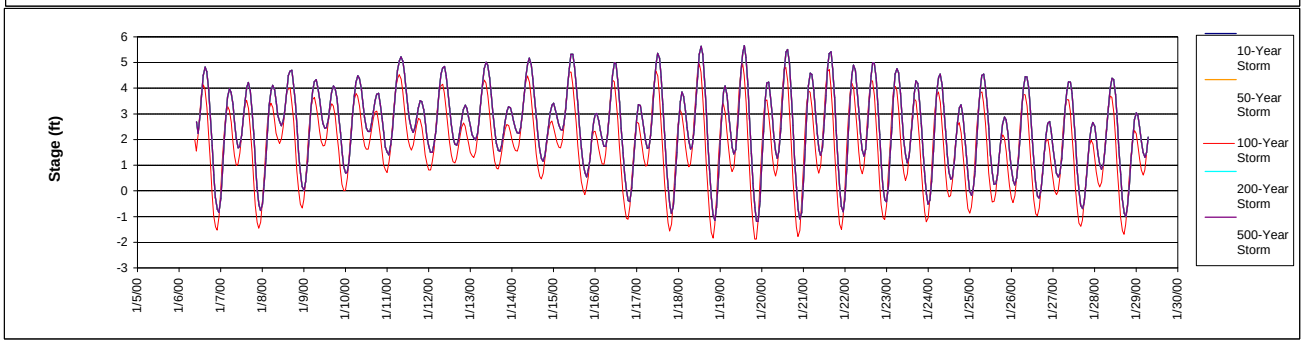
* Peak flow and peak stage may occur at different time.



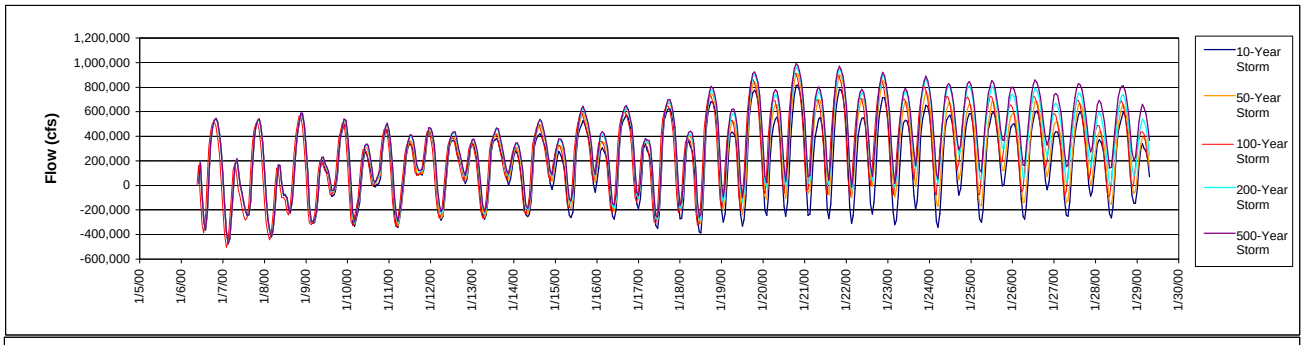


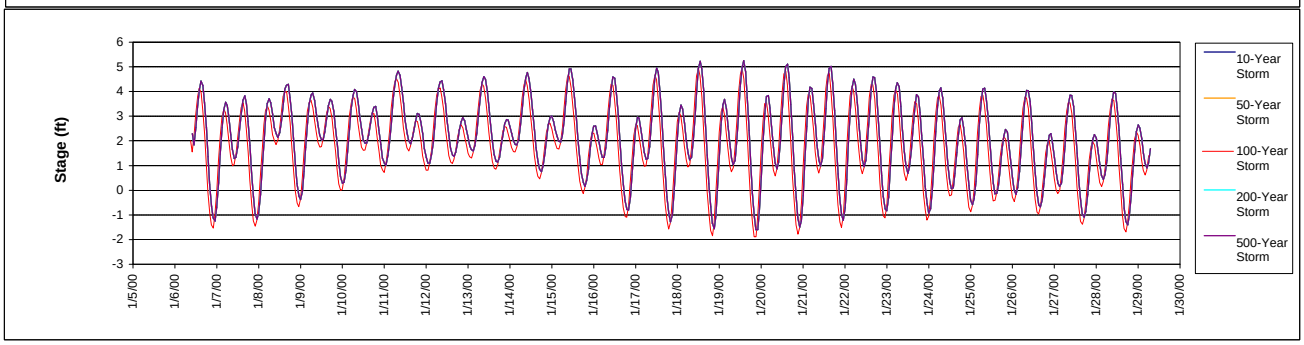
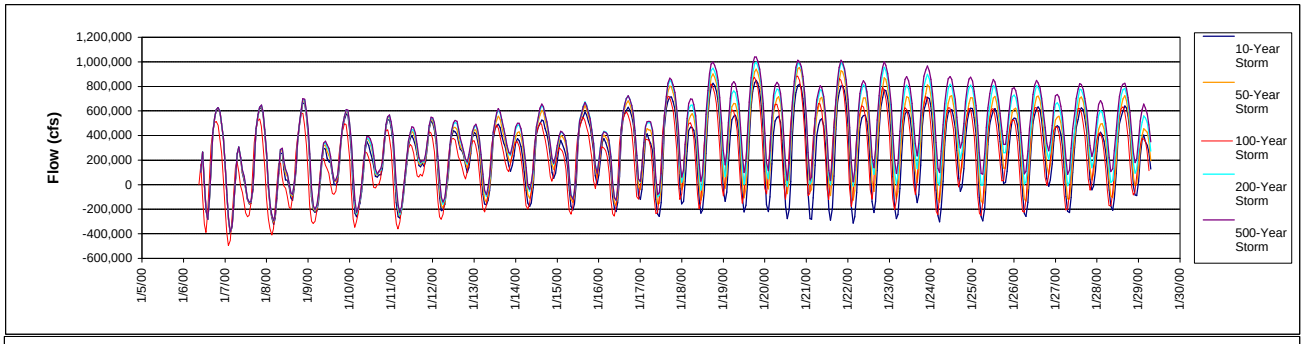
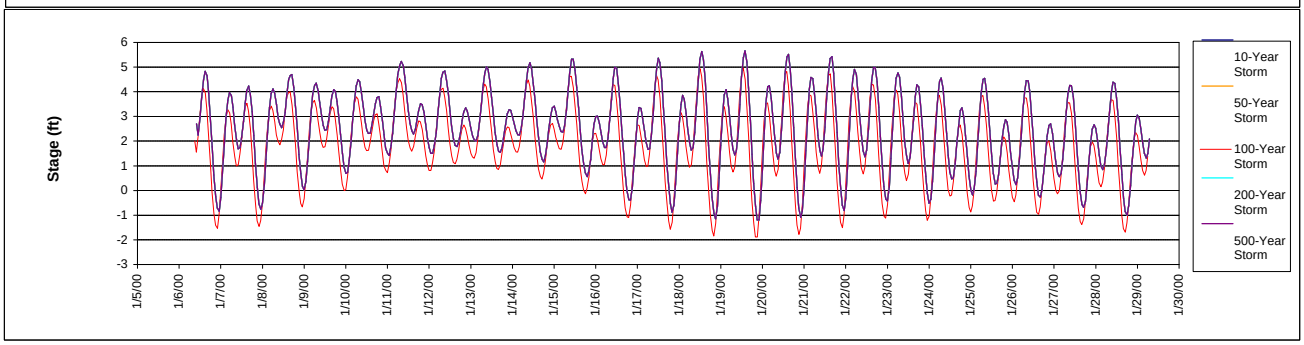
Hydrographs: Sacramento River Centering





Hydrographs: Delta Centering





Hydrographs: San Joaquin River Centering