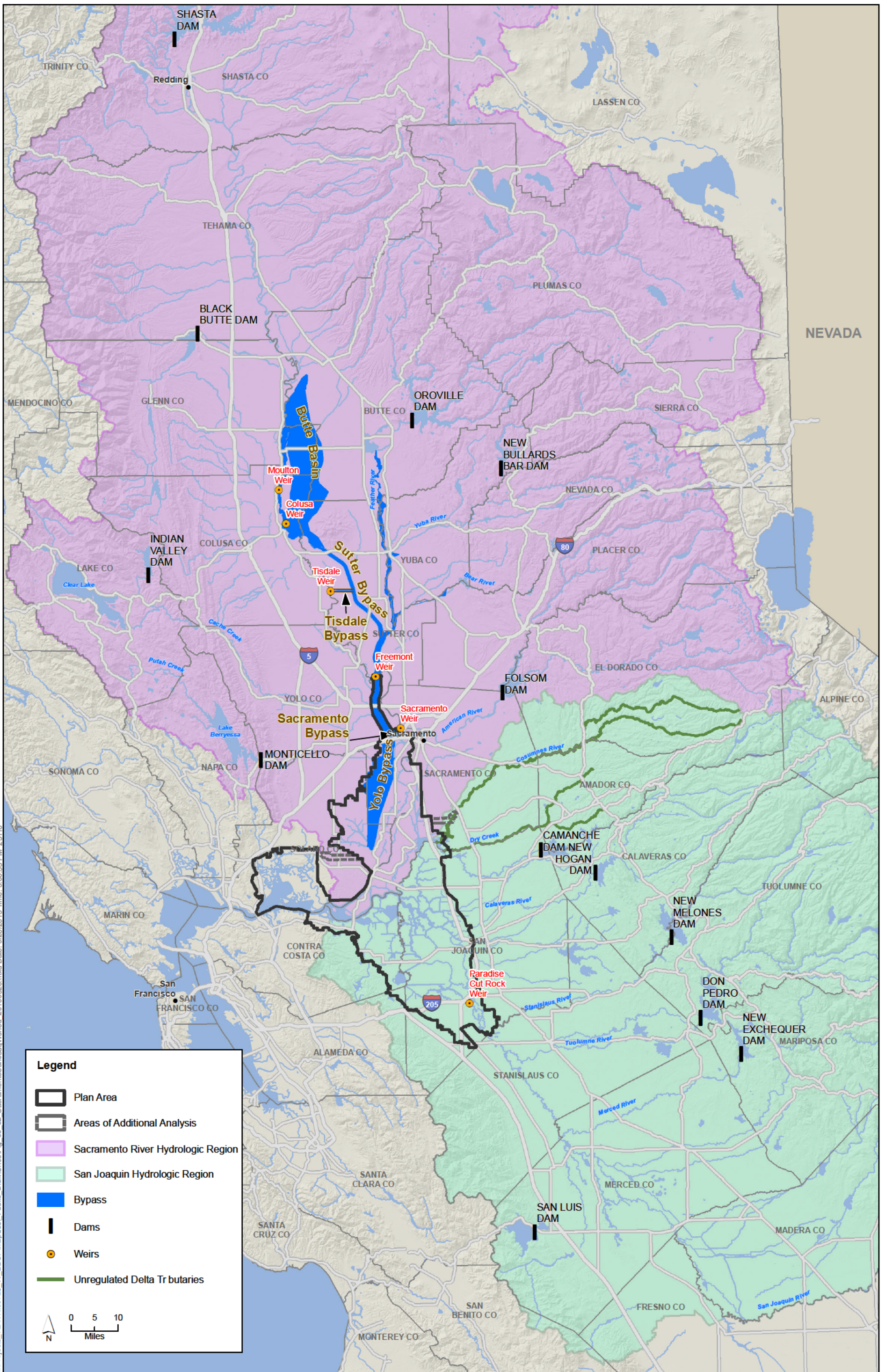




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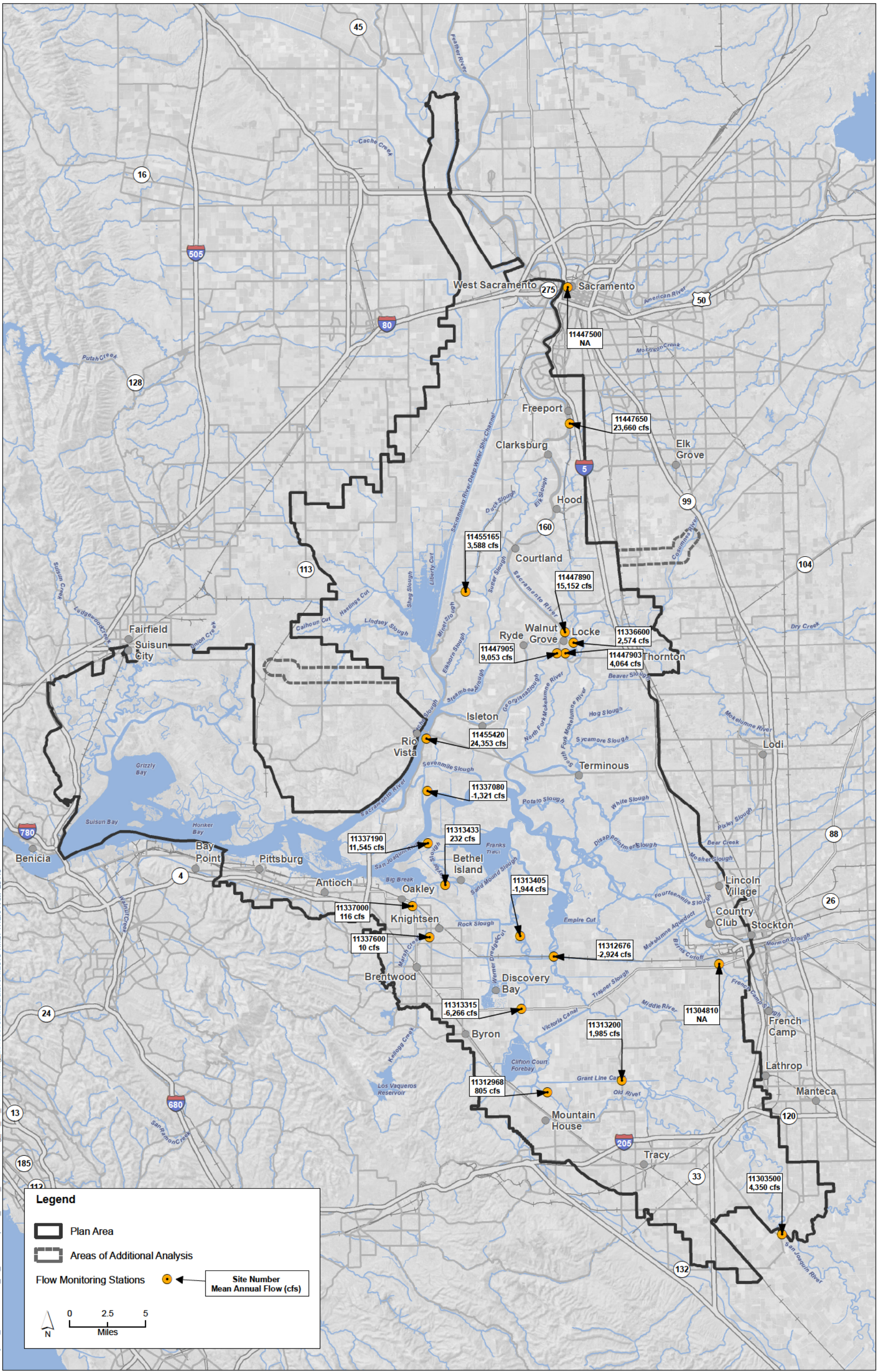
Sources: Plan Area, ICF 2012; Hydrologic Regions, California Interagency Watershed Mapping Committee 2004

Figure 6-1
Hydrologic Regions and County Boundaries



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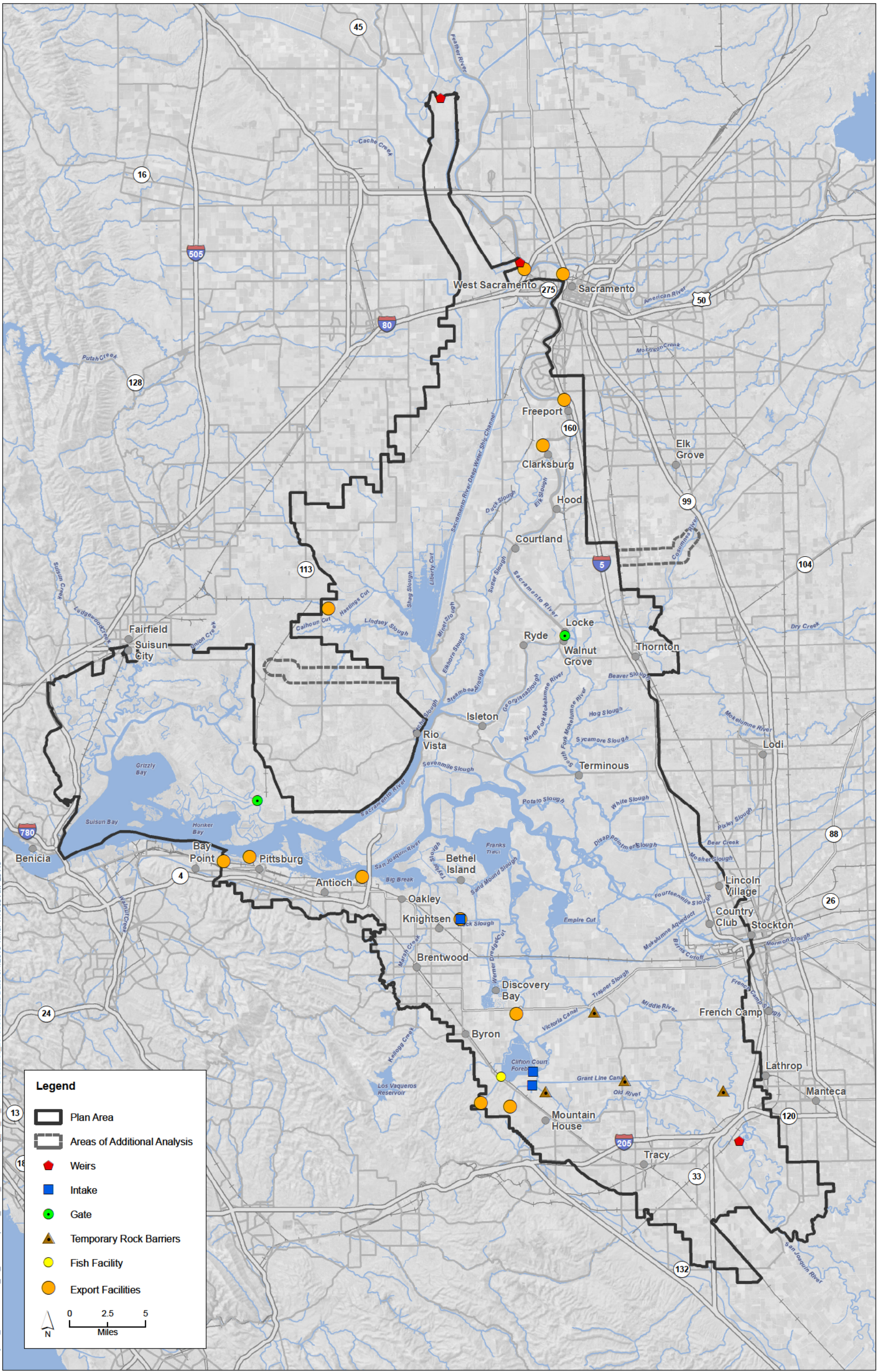
Figure 6-2
Sacramento River and San Joaquin Hydrologic Regions



K:\Projects_1\DW\00726_11_BDCP\mapdoc\Public_Draft\Ch06\Fig_06_03_FlowMonitoring_20130806.mxd Date: 9/4/2013 Time: 1:12:04 AM 25110

Sources: Plan Area, DWR 2010; Roads, ESRI 2010; Aerial Photograph, NA P 2010; Flow Monitoring Stations, HDR 2010. Average Flows, USGS 2009.

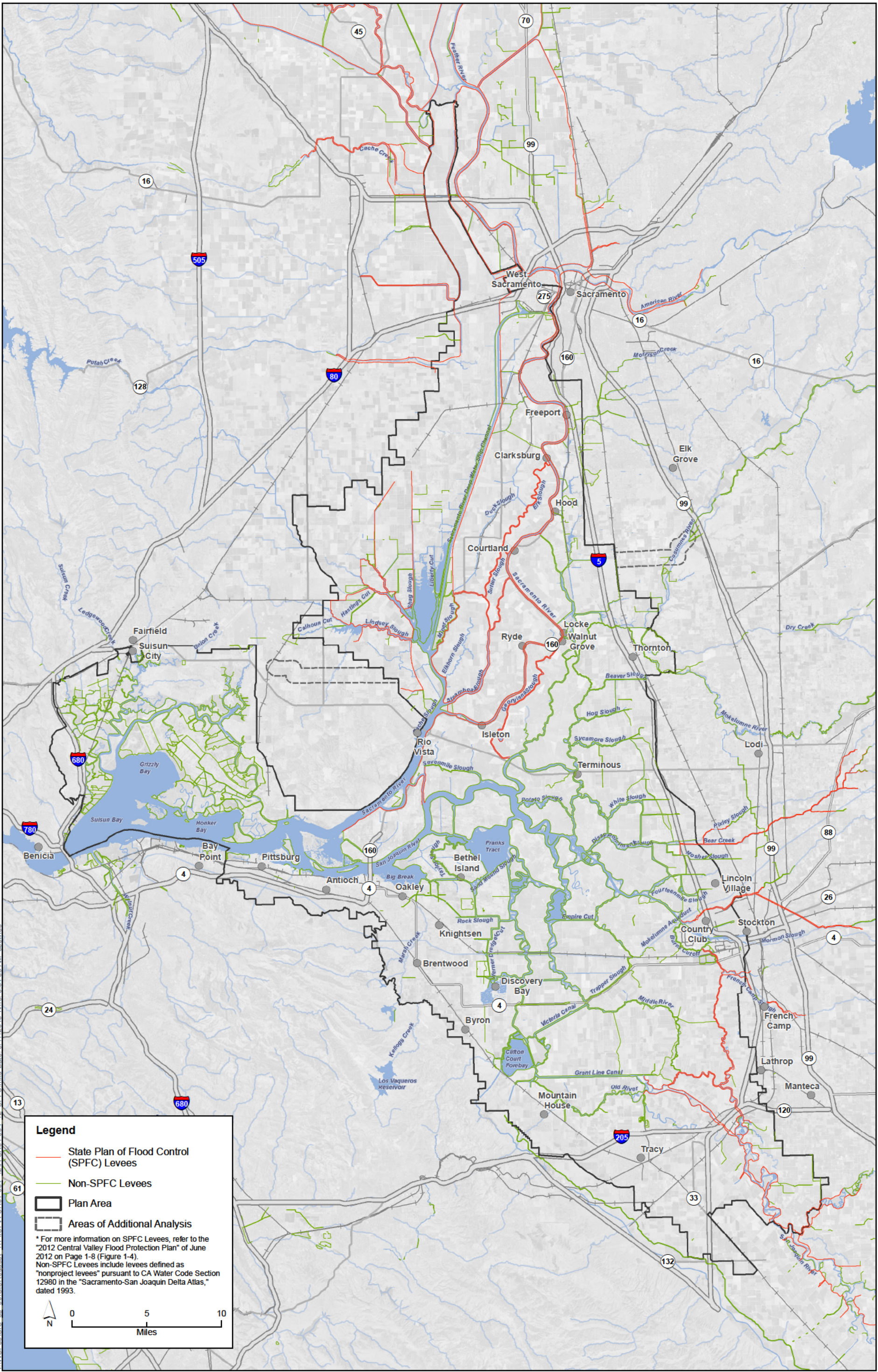
Figure 6-3
Delta Stream Gage Locations and Mean Annual Flows



K:\Projects_1\DW\00726_11_BDCP\mapdoc\Public_Draft\Ch06\Fig_06_04_ControlStructures_20130819.mxd Date: 9/4/2013 Time: 1:10:03 AM 25110

Sources: Control Structures, DWR 2007. Weirs, BDCP 2010. Export facilities, URS 2007

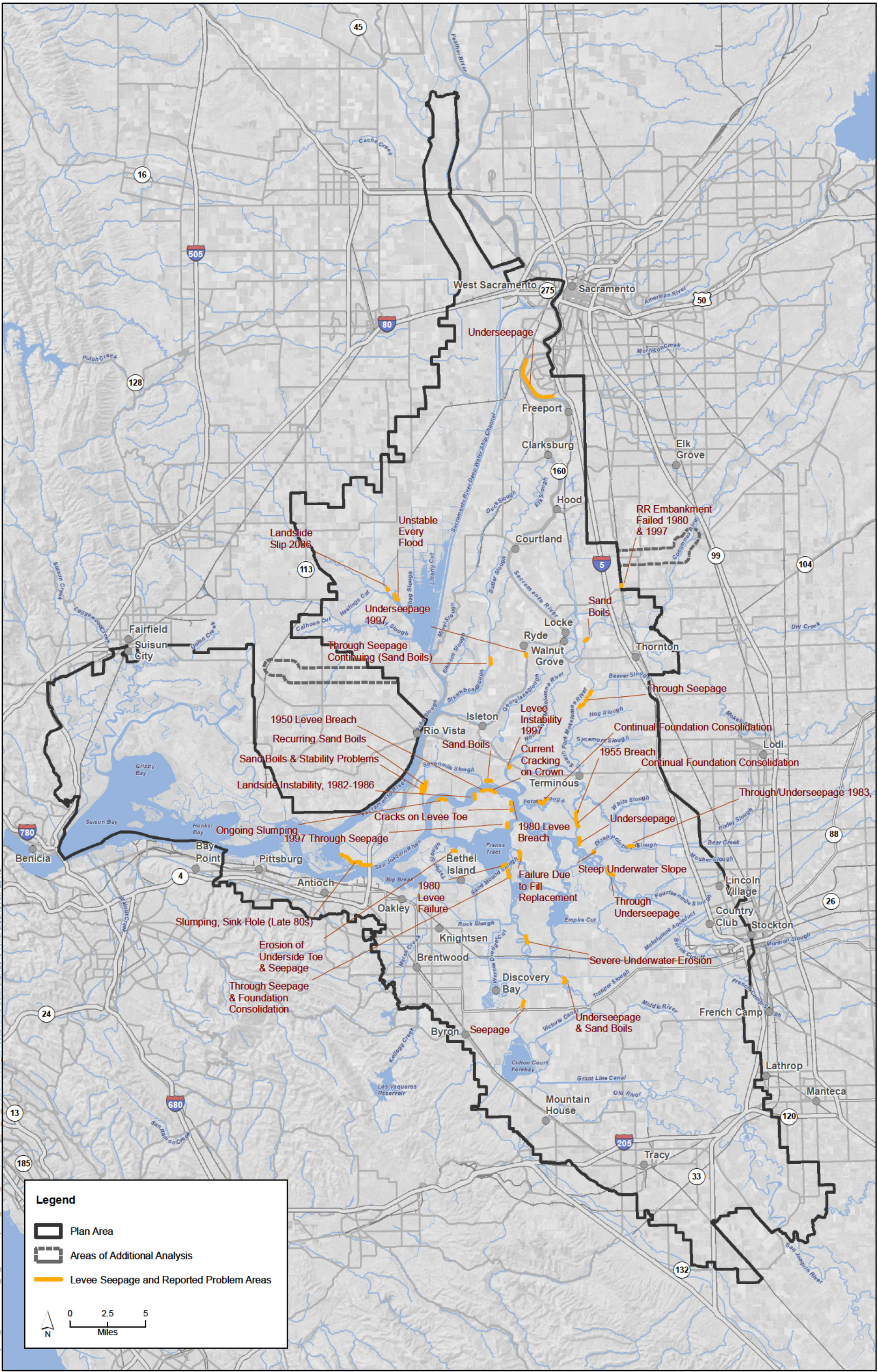
Figure 6-4
Major Hydraulic Control Structures in the Delta



T:\WGI-38\GIS 33 00\GISRequest_1\FIC\FA-CH01-004_12.SPFC.mxd Date: 9/17/2013 Time: 8:54:58 AM cbowles

Sources: Plan Area, California Levee Database v3 0 r1 (31 December 2011).

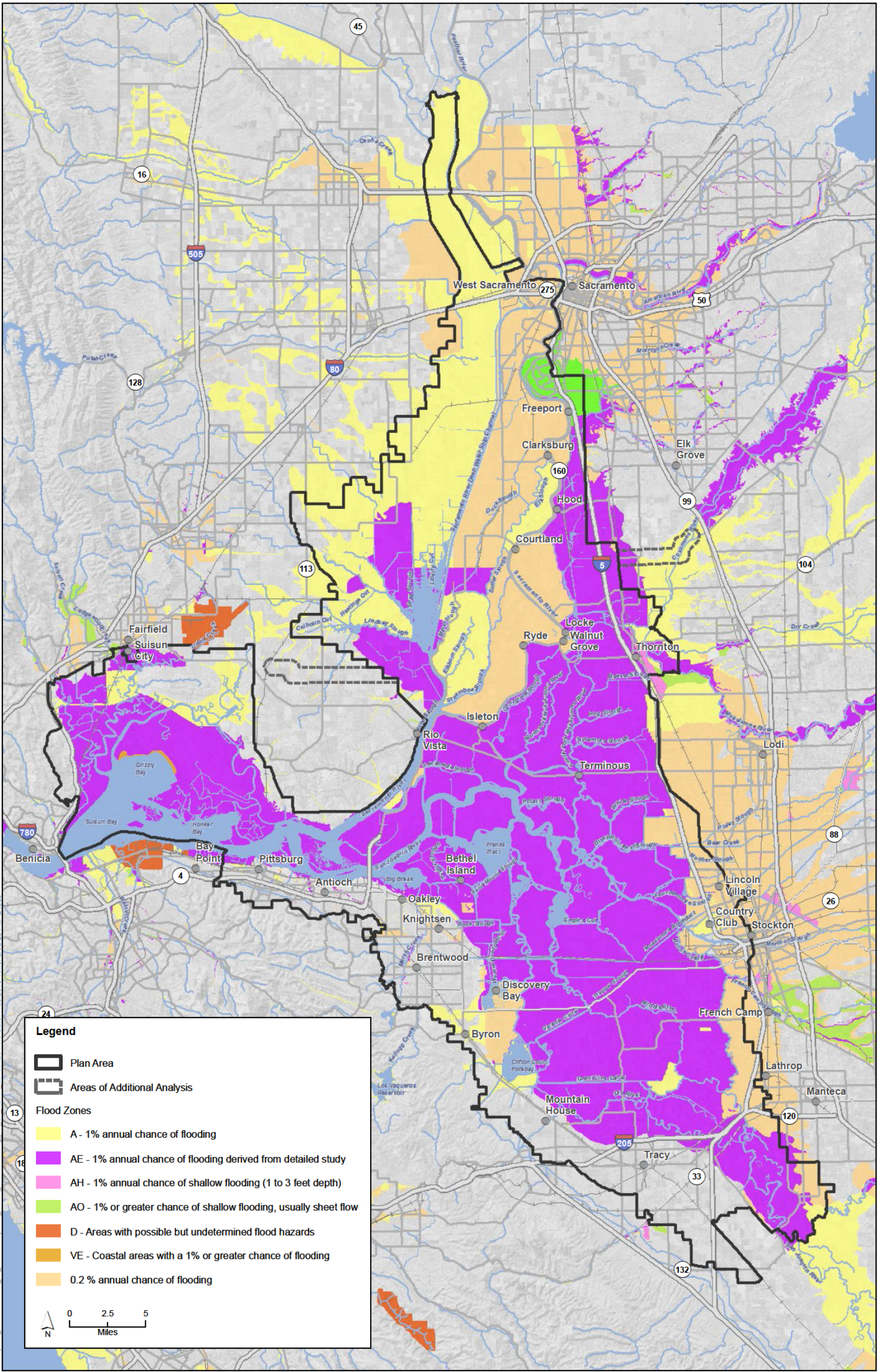
Figure 6-5
SPFC and Non-SPFC Levees



K:\Projects_1\DW\00726_11_BDC\pmapdoc\Public_Draft\Ch06\Fig_06_06_ProblemAreas_20130927.mxd Date: 9/27/2013 Time: 9:08:13 AM 25110

Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Problem Areas, URS 2008; Levee Seepage Areas, URS 2008

Figure 6-6
Reported Delta Levee Problem Areas



K:\Projects_1\DW\00726_11_BDCP\mapdoc\Public_Draft\Ch06\Fig_06_07_FEMA_20130723.mxd Date: 7/26/2013 Time: 2:02:26 PM 24853

Sources: Plan Area, DWR 2010; Roads, ESRI 2010; Aerial Photograph, NA P 2010; Flood Zones, FEMA DFIRM 2009

Figure 6-7
Effective Federal Emergency Management Agency Flood Zones

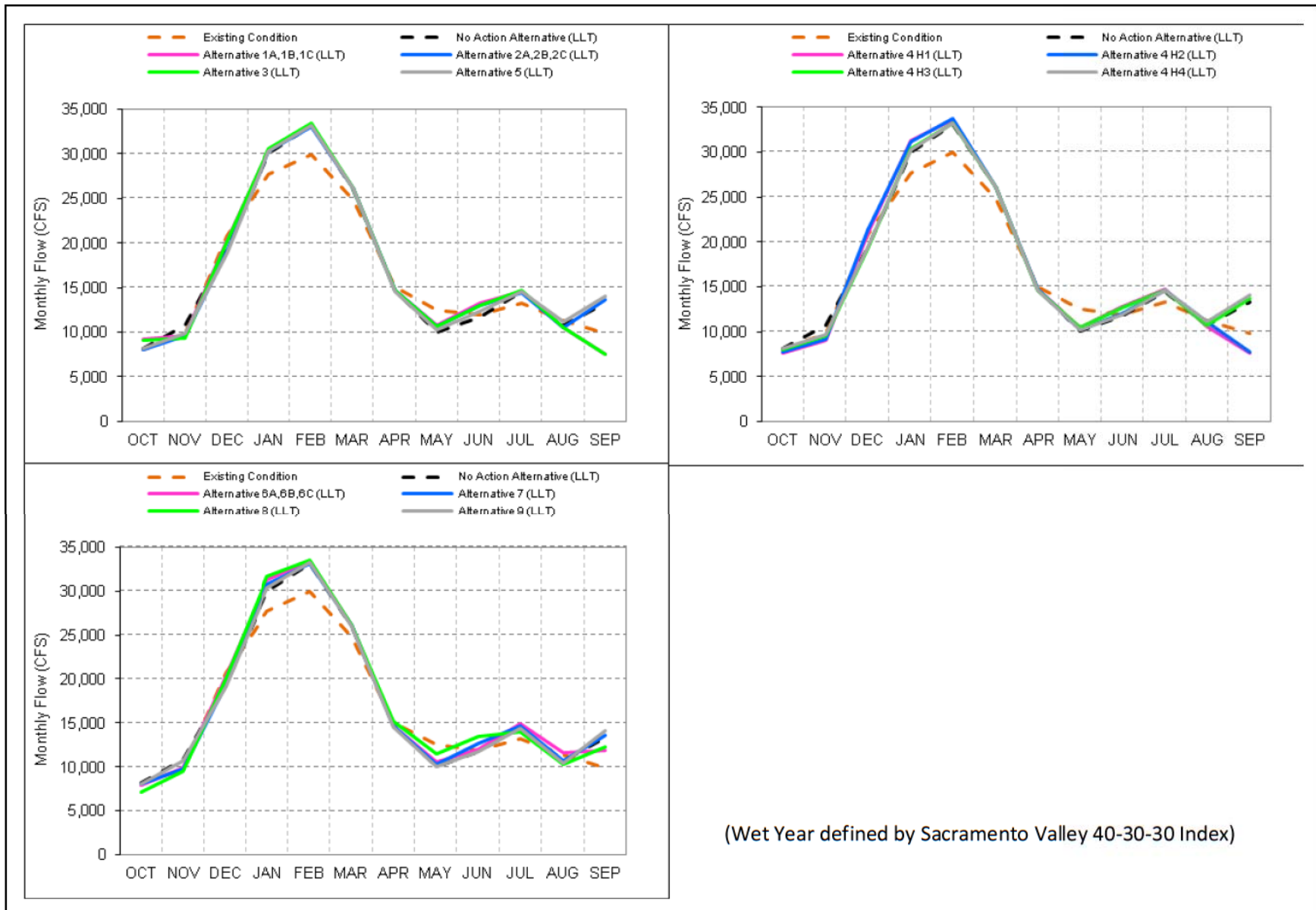


Figure 6-8
Sacramento River at Bend Bridge, Average Wet Years

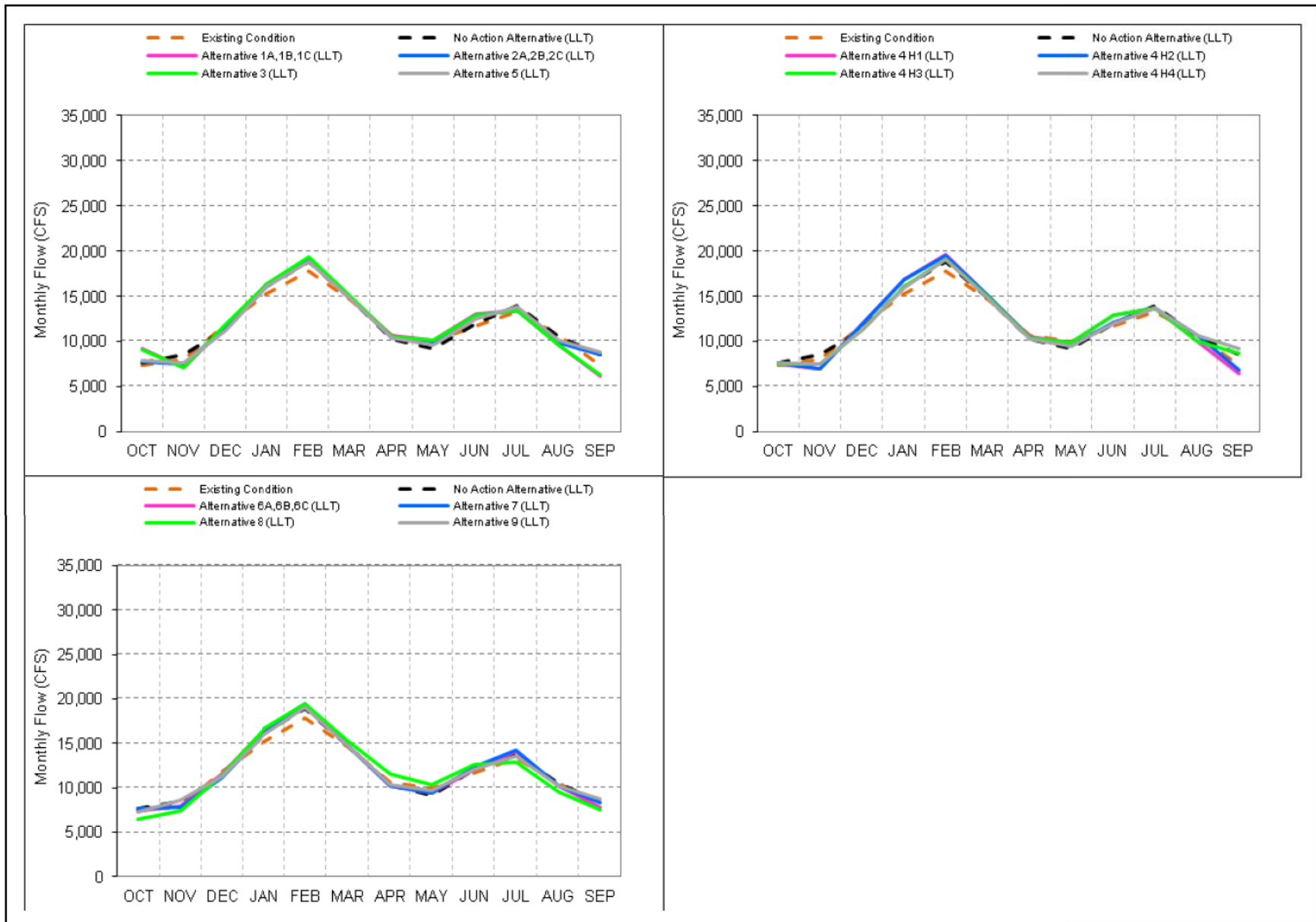


Figure 6-9

Sacramento River Flow at Bend Bridge, Long-Term Average

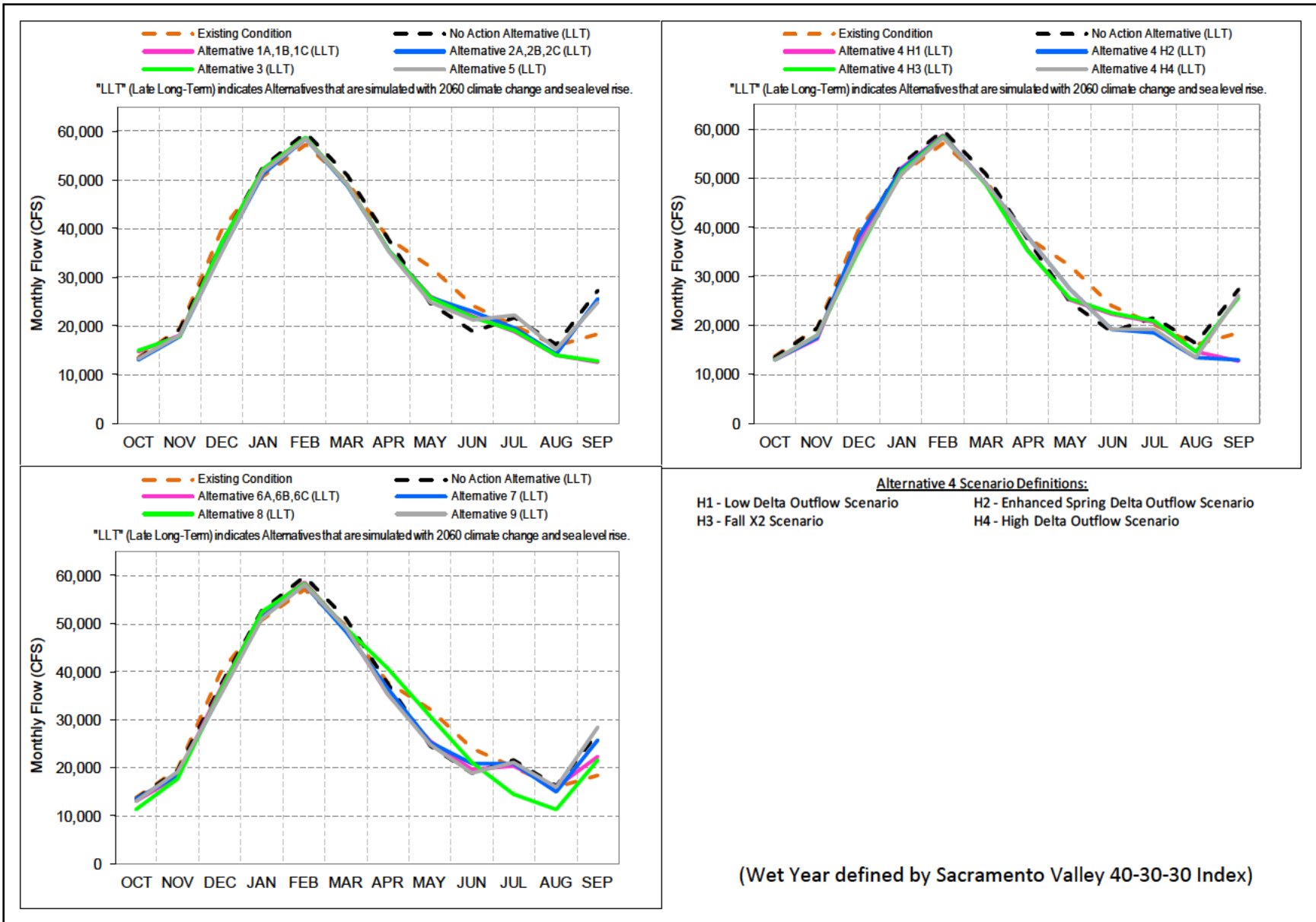


Figure 6-10
Sacramento River Flow at Freeport, Average Wet Years

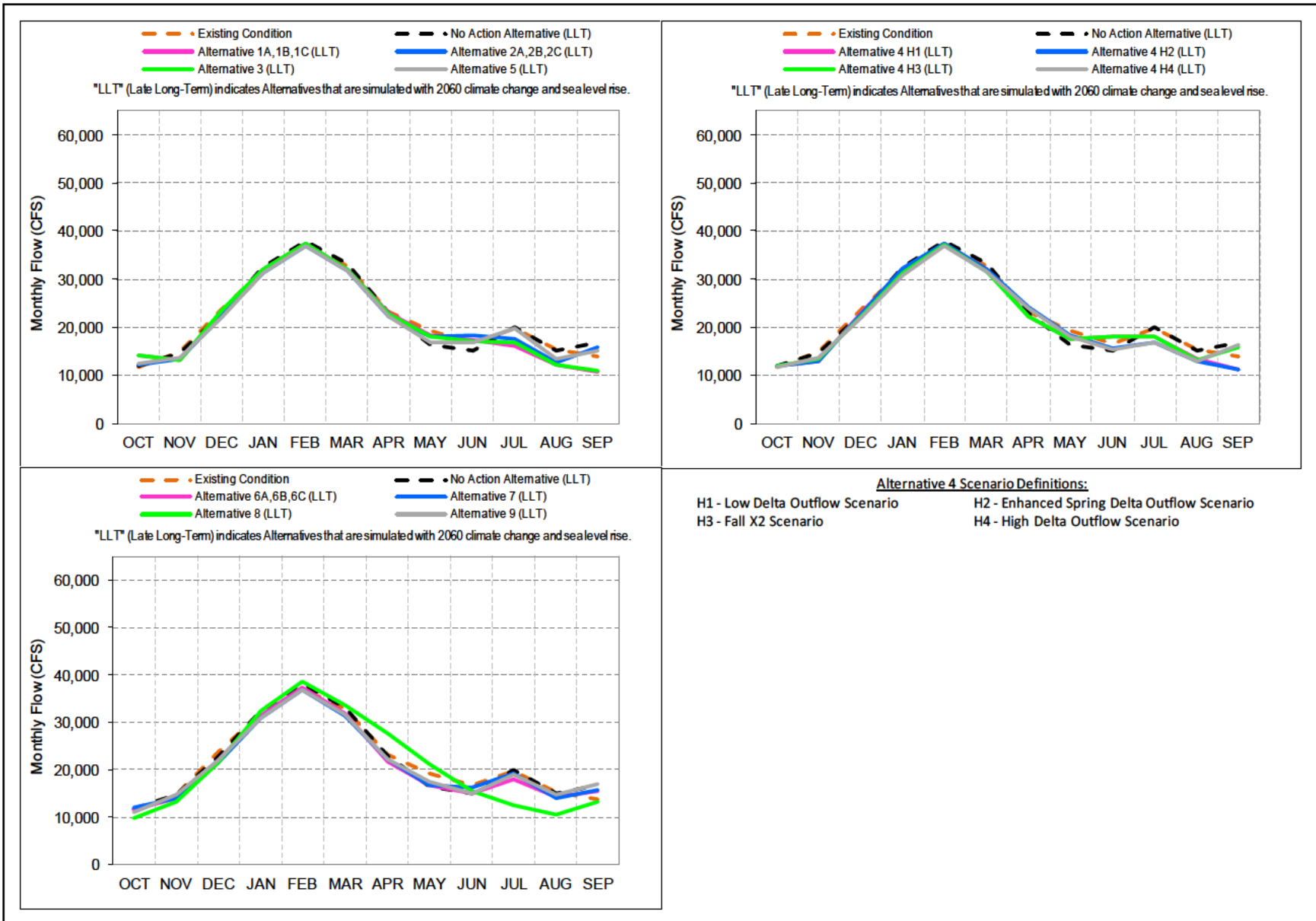


Figure 6-11
Sacramento River Flow at Freeport, Long-Term Average

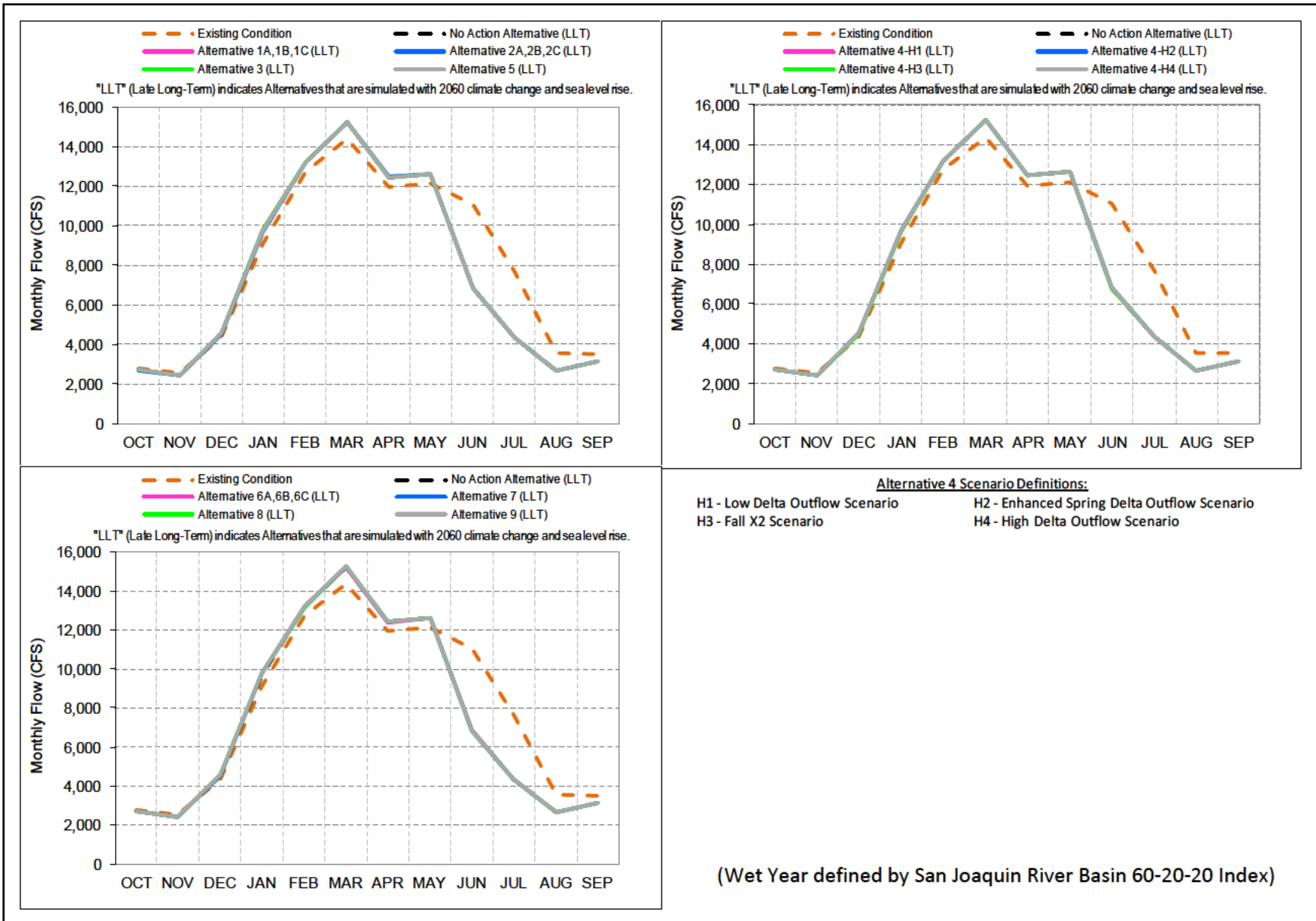


Figure 6-12
San Joaquin River Flow at Vernalis, Average Wet Years

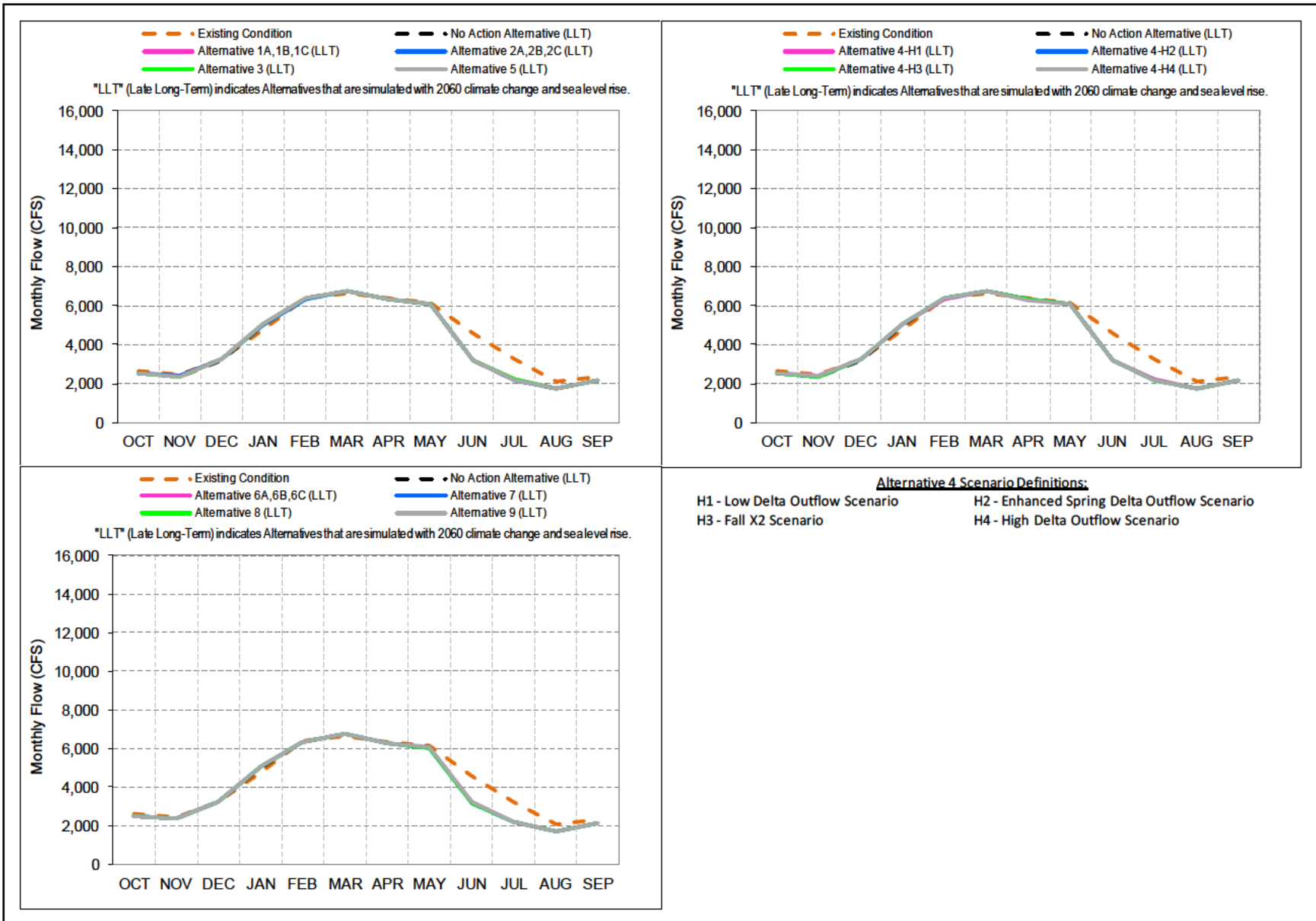


Figure 6-13
San Joaquin River Flow at Vernalis, Long-Term Average

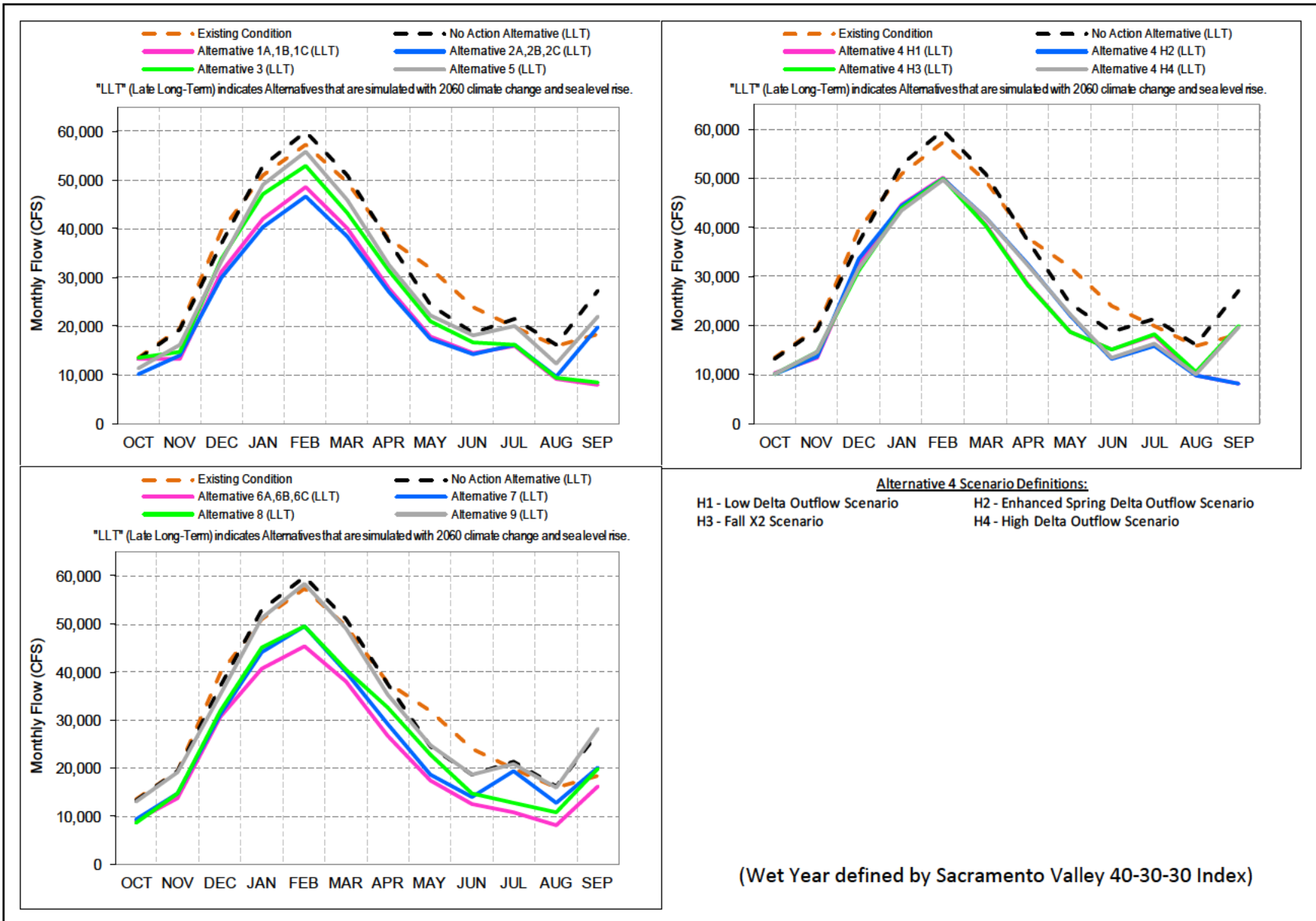


Figure 6-14
Sacramento River Flow downstream of North Delta Intakes, Average Wet Years

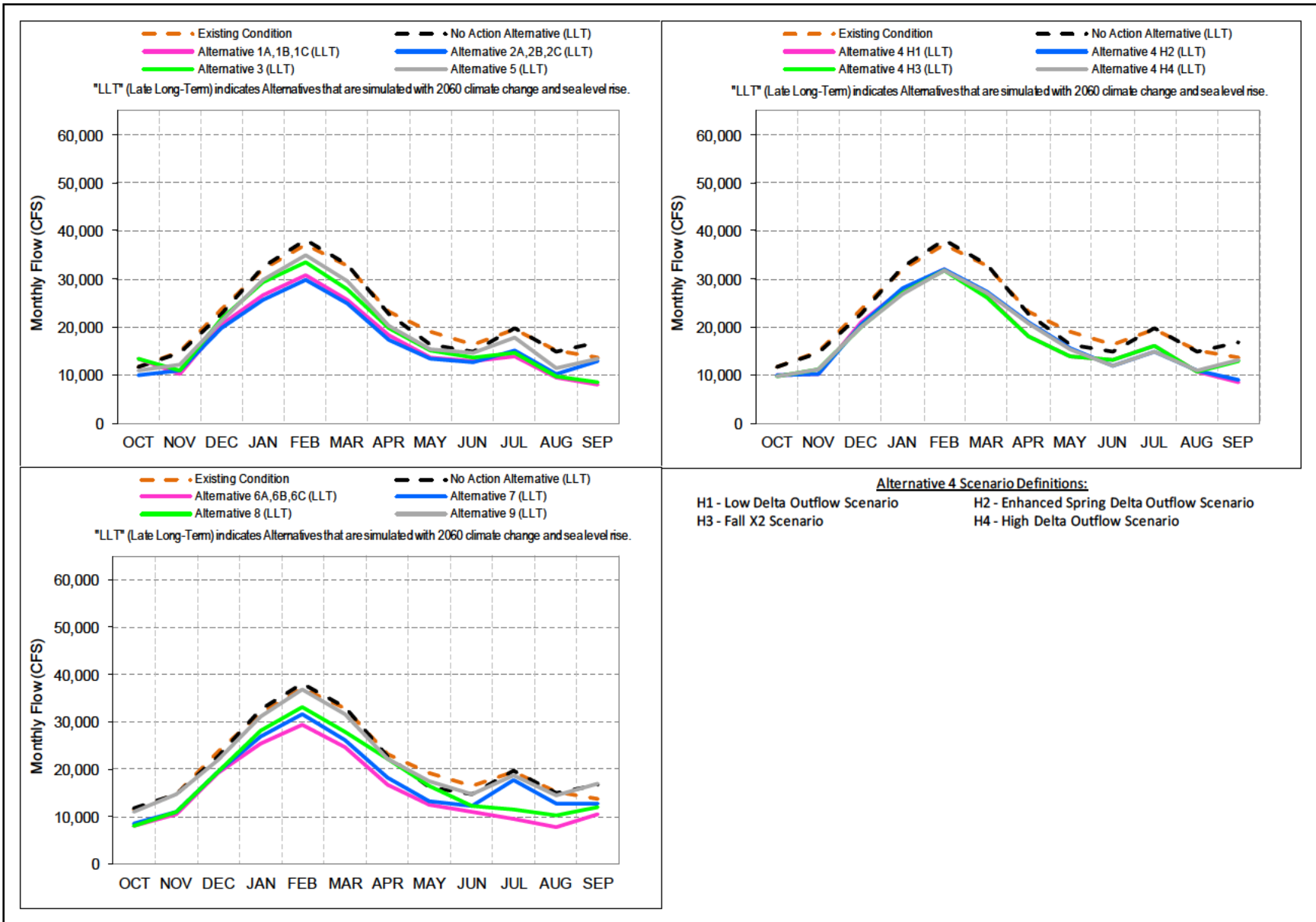


Figure 6-15
Sacramento River Flow downstream of North Delta Intakes, Long-Term Average

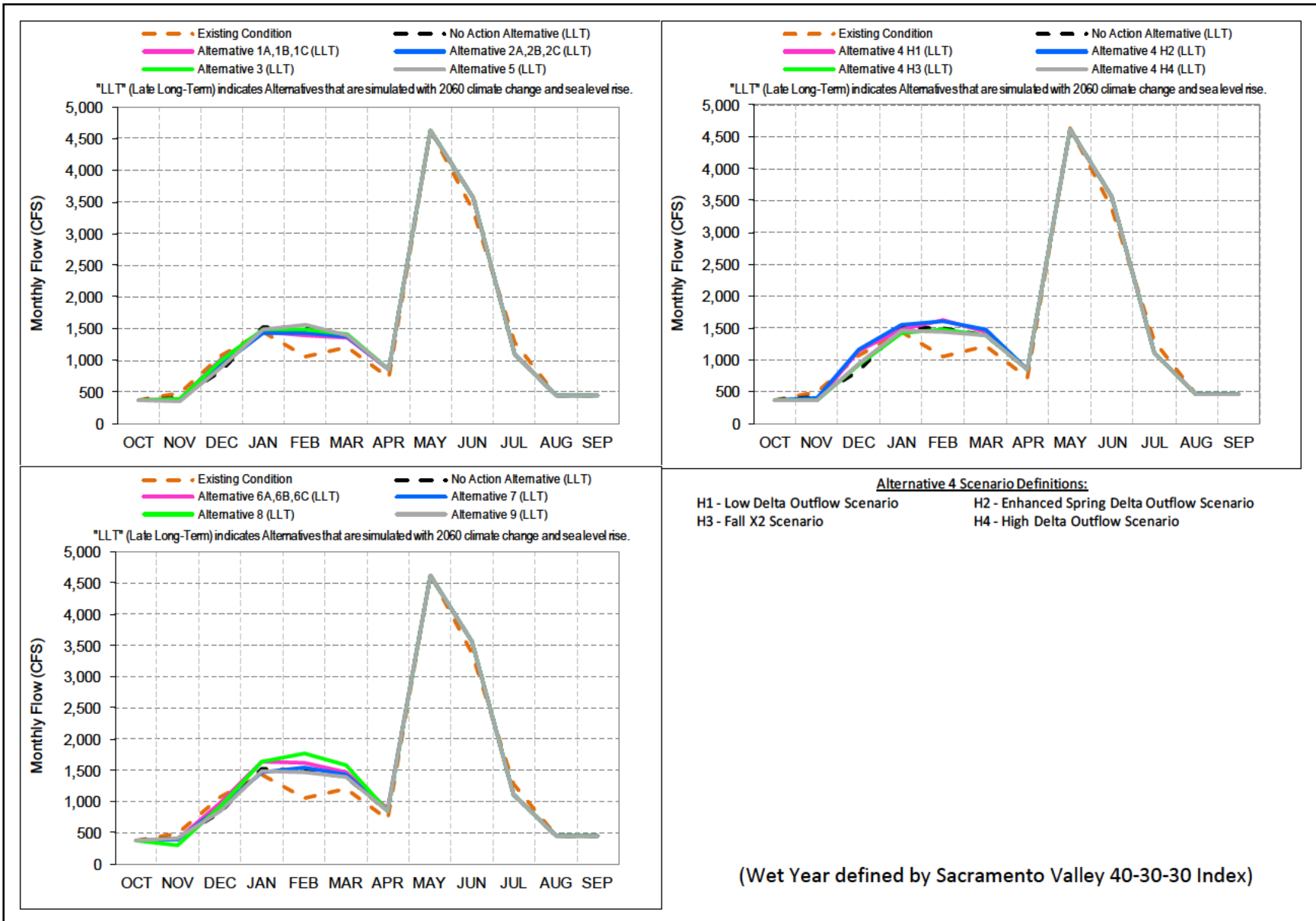


Figure 6-16
Trinity River Flow below Lewiston Dam, Average Wet Years

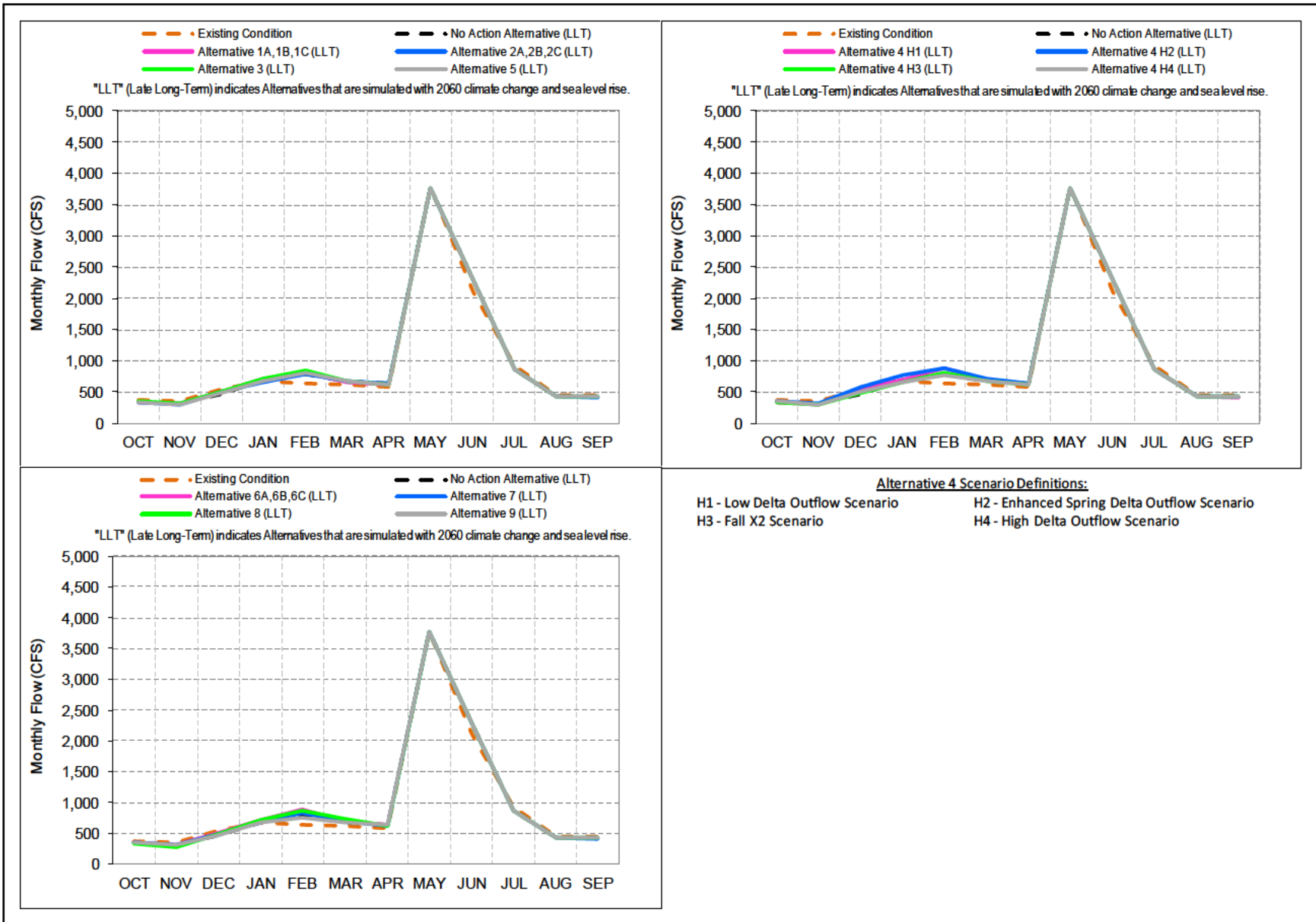


Figure 6-17
Trinity River Flow below Lewiston Dam, Long-Term Average

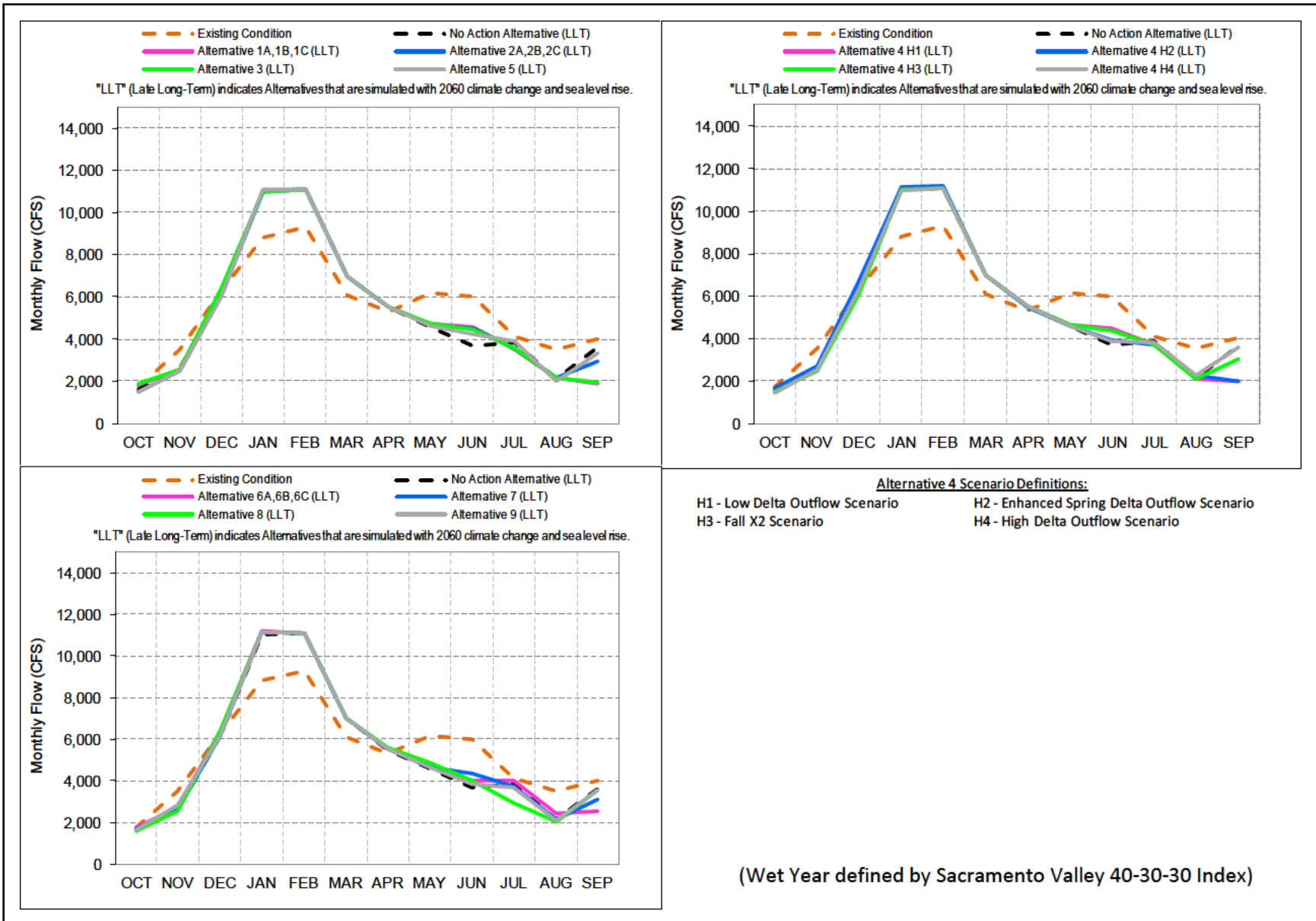


Figure 6-18
American River Flow below Nimbus Dam, Average Wet Years

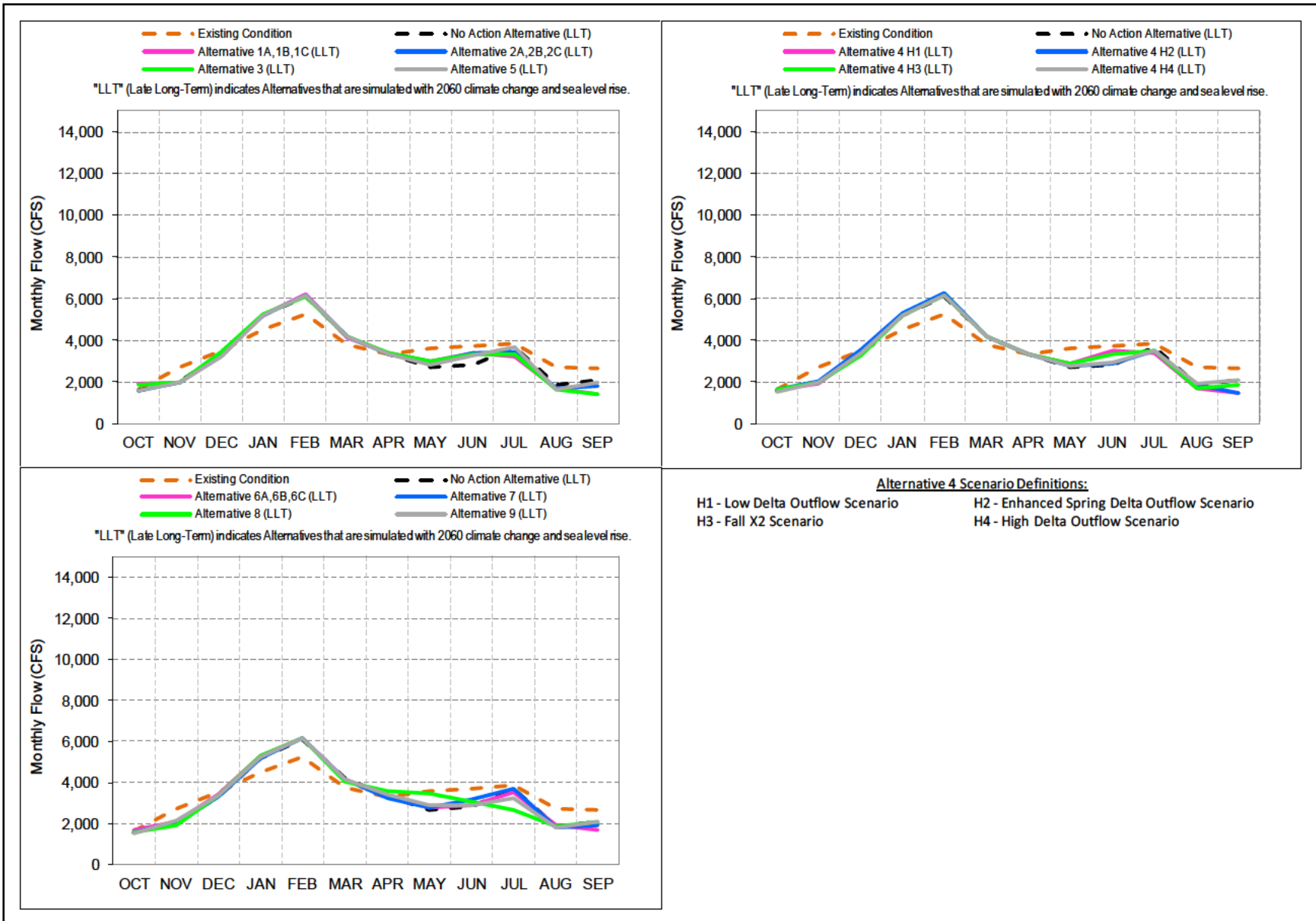


Figure 6-19
American River Flow below Nimbus Dam, Long-Term Average

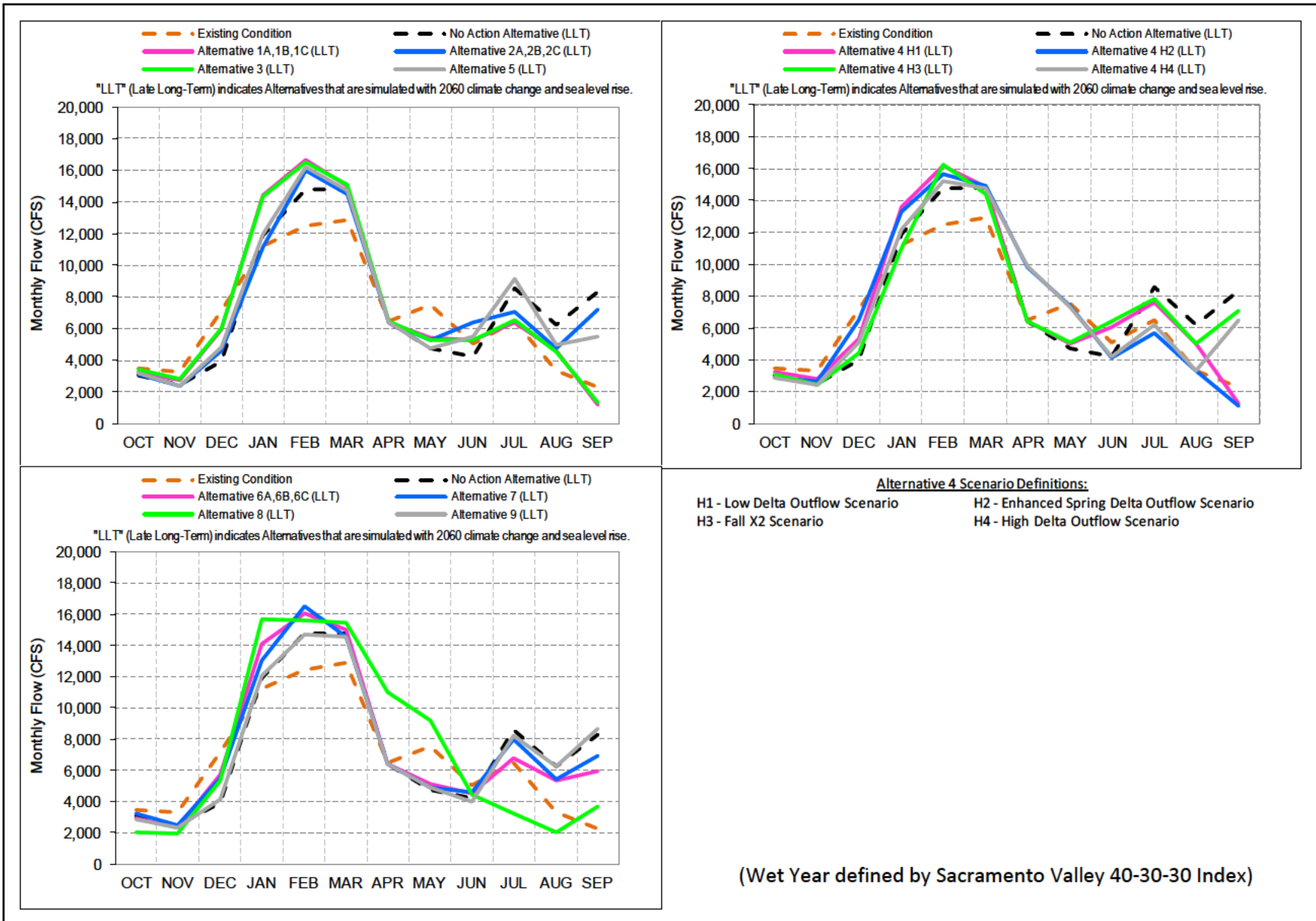


Figure 6-20
Feather River Flow at Thermalito Dam, Average Wet Years

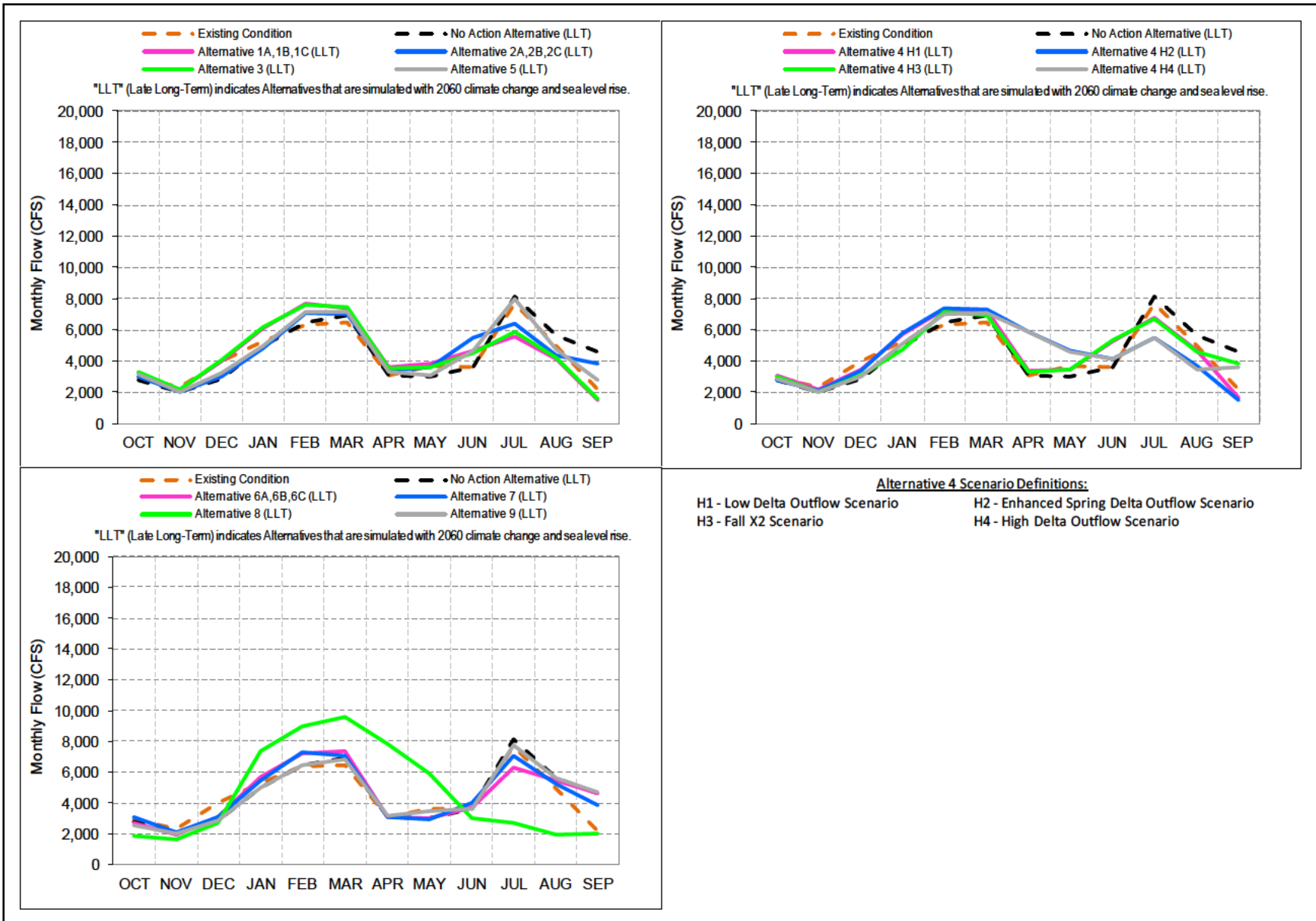


Figure 6-21
Feather River Flow at Thermalito Dam, Long-Term Average

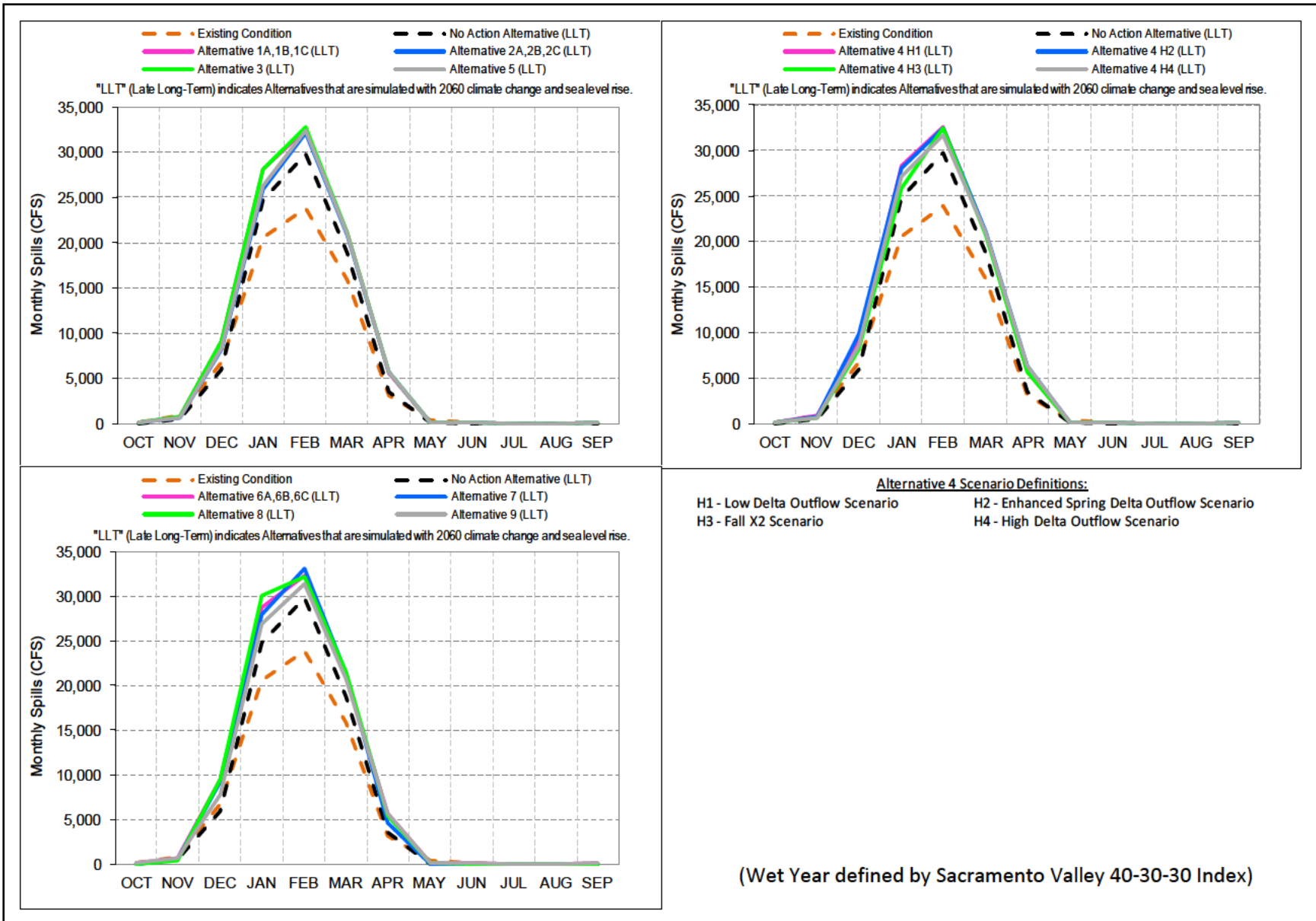


Figure 6-22
Flow Spills into Yolo Bypass at Fremont Weir, Average Wet Years

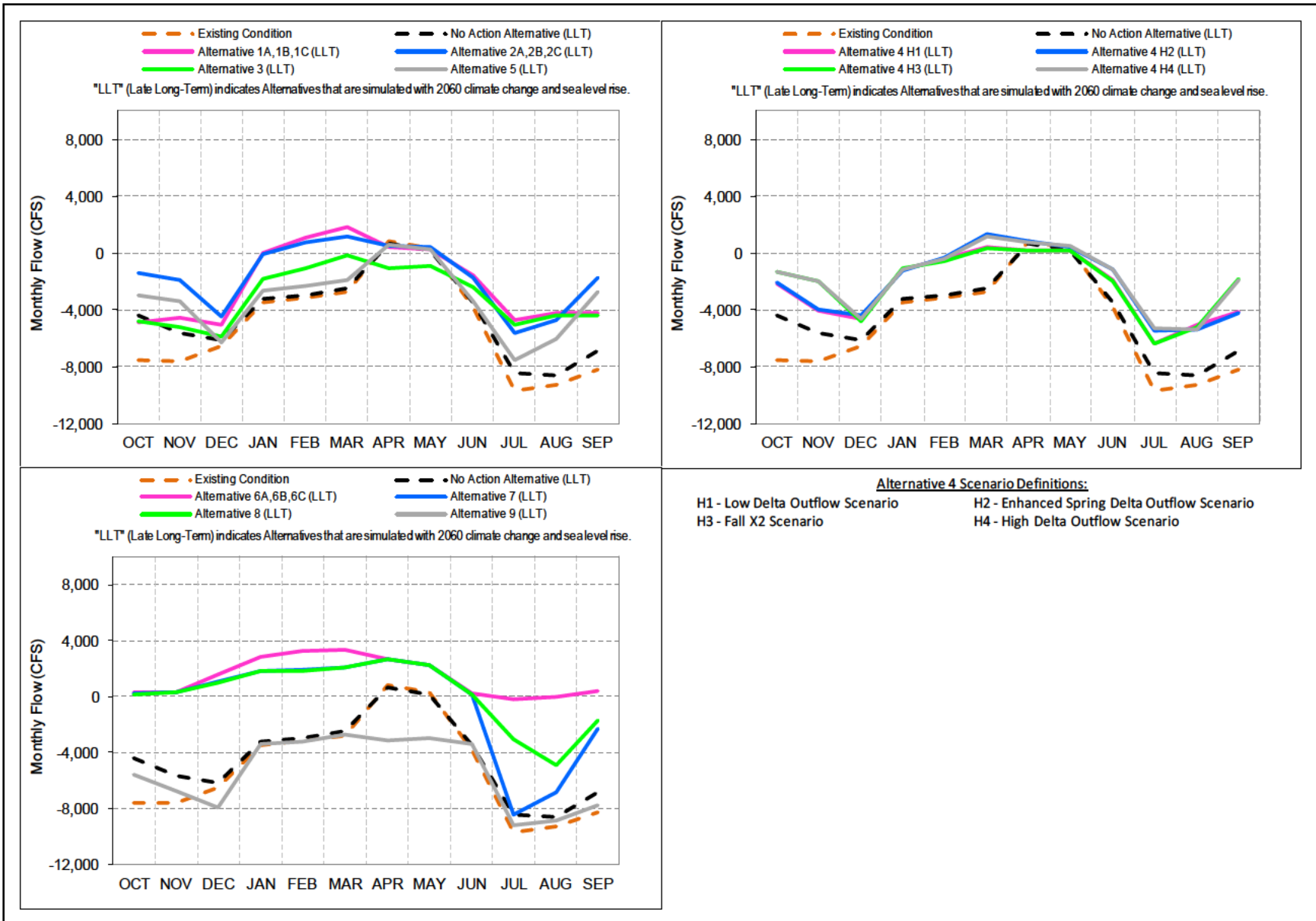


Figure 6-23
Old and Middle River Flows, Long-Term Average

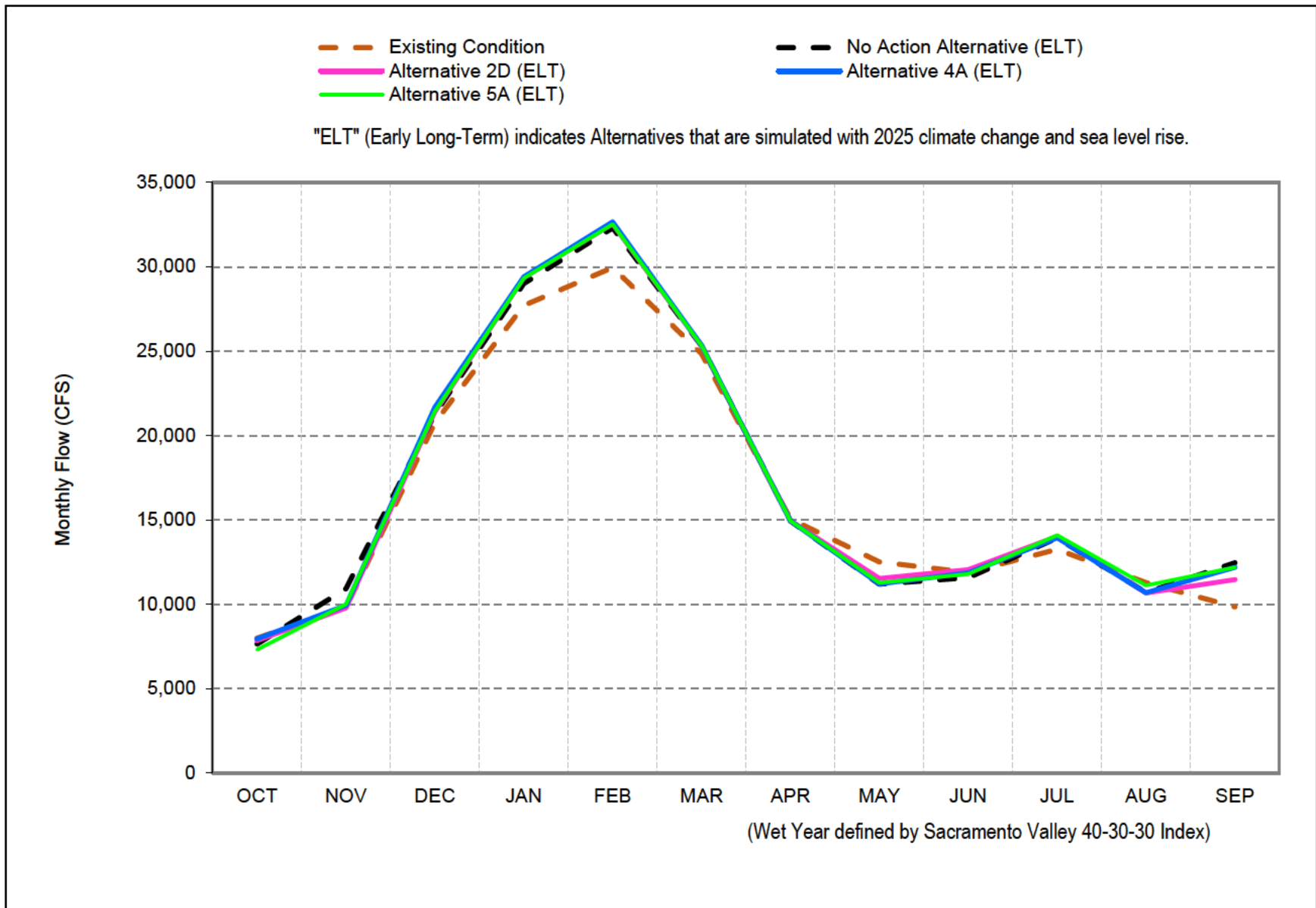


Figure 6-24
Sacramento River at Bend Bridge for Alternatives 2D, 4A and 5A, Average Wet Years

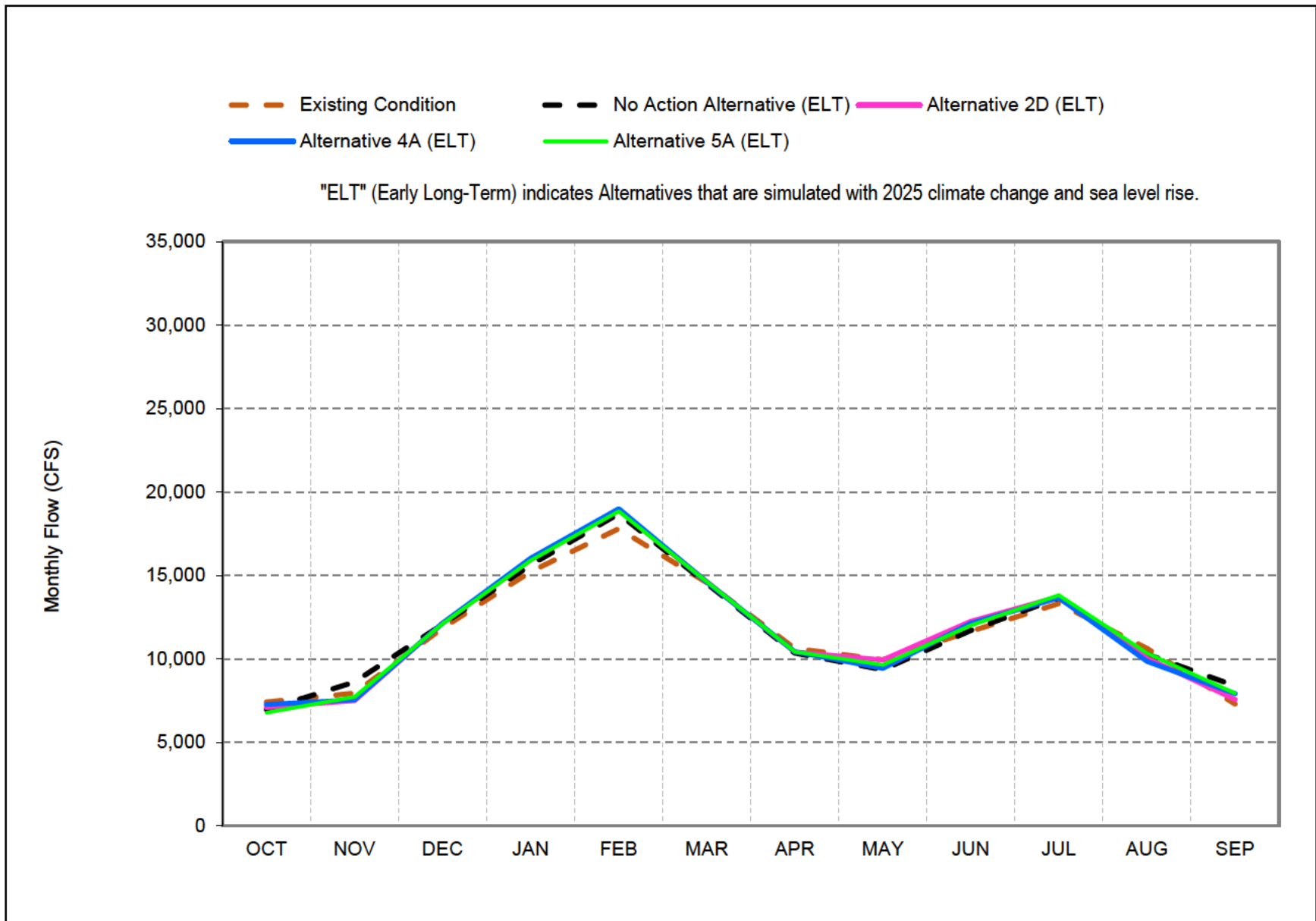


Figure 6-25
Sacramento River Flow at Bend Bridge for Alternatives 2D, 4A and 5A, Long-Term Average

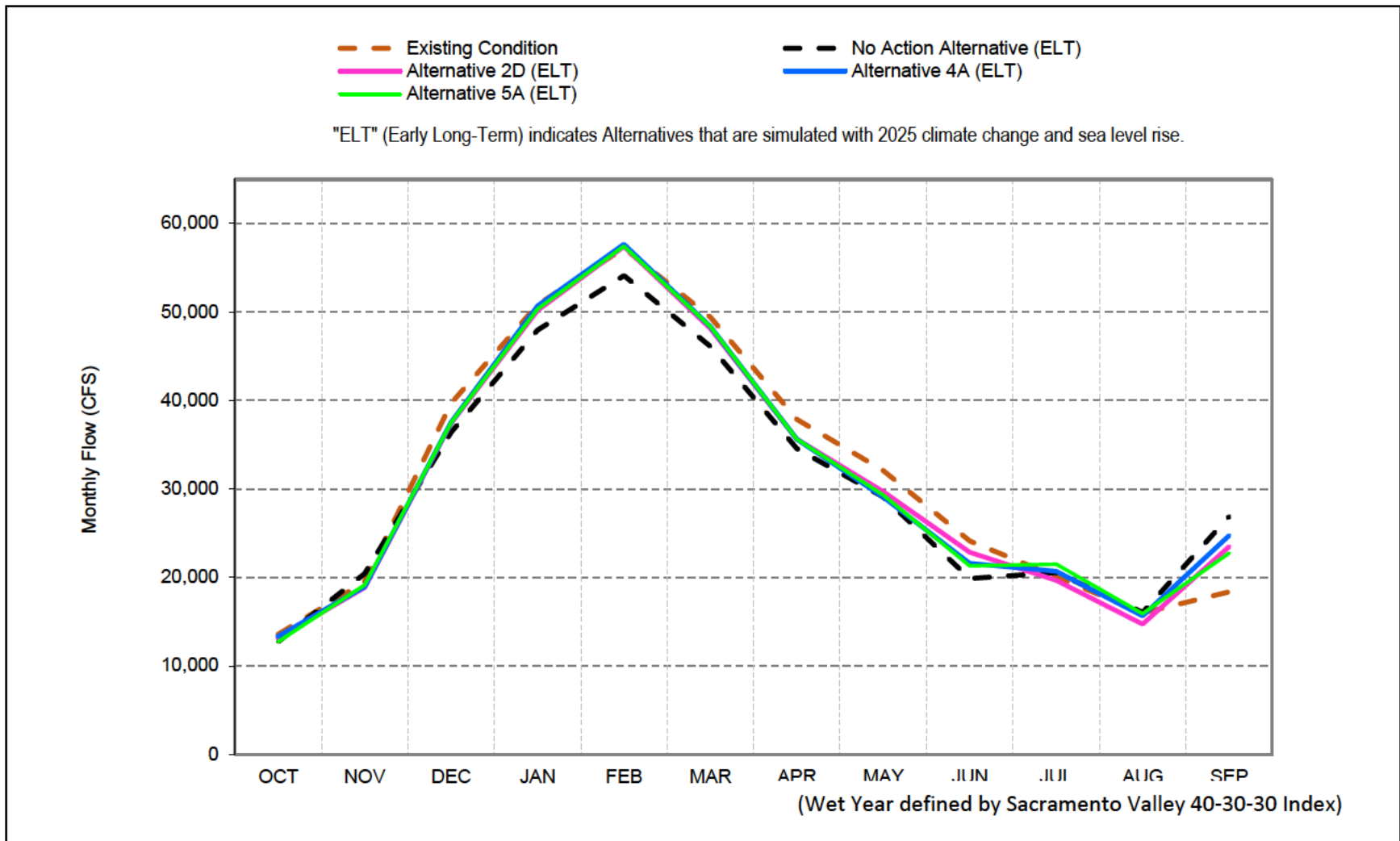


Figure 6-26
Sacramento River Flow at Freeport for Alternatives 2D, 4A and 5A, Average Wet Years¹

¹ Higher flows under Alternatives 4A, 2D and 5A in the winter months compared to the No Action Alternative at Freeport is a result of difference in modeling assumption of how the Fremont Weir notch is operating when the existing Fremont Weir is spilling. The notch is assumed to be open under the FEIRS No Action Alternative at ELT when the existing Fremont Weir is spilling, unlike the Alternatives 2D, 4A and 5A Action Alternatives, which assume it's closed. This is just a difference in modeling assumption, and there is no intent for differences in the future Fremont Weir modifications and operations between the FEIRS No Action Alternative and Action Alternatives. The effect of this difference in assumption is minor and limited to winter months of wet and above normal years at high flow conditions. This has no effect on the impact analysis and significance conclusions in any of the resource chapters in this EIR/S.

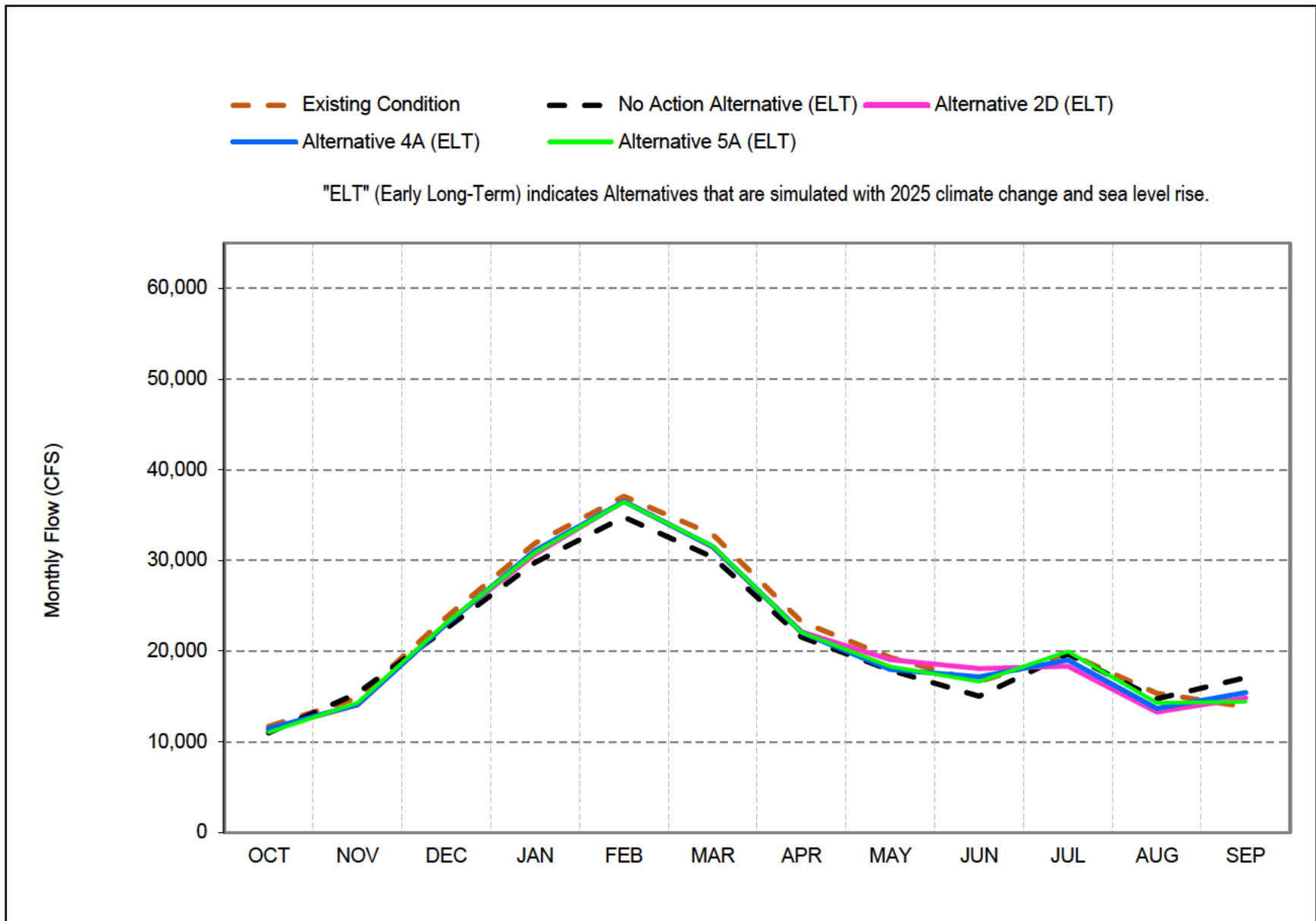


Figure 6-27
Sacramento River Flow at Freeport for Alternatives 2D, 4A and 5A, Long-Term Average

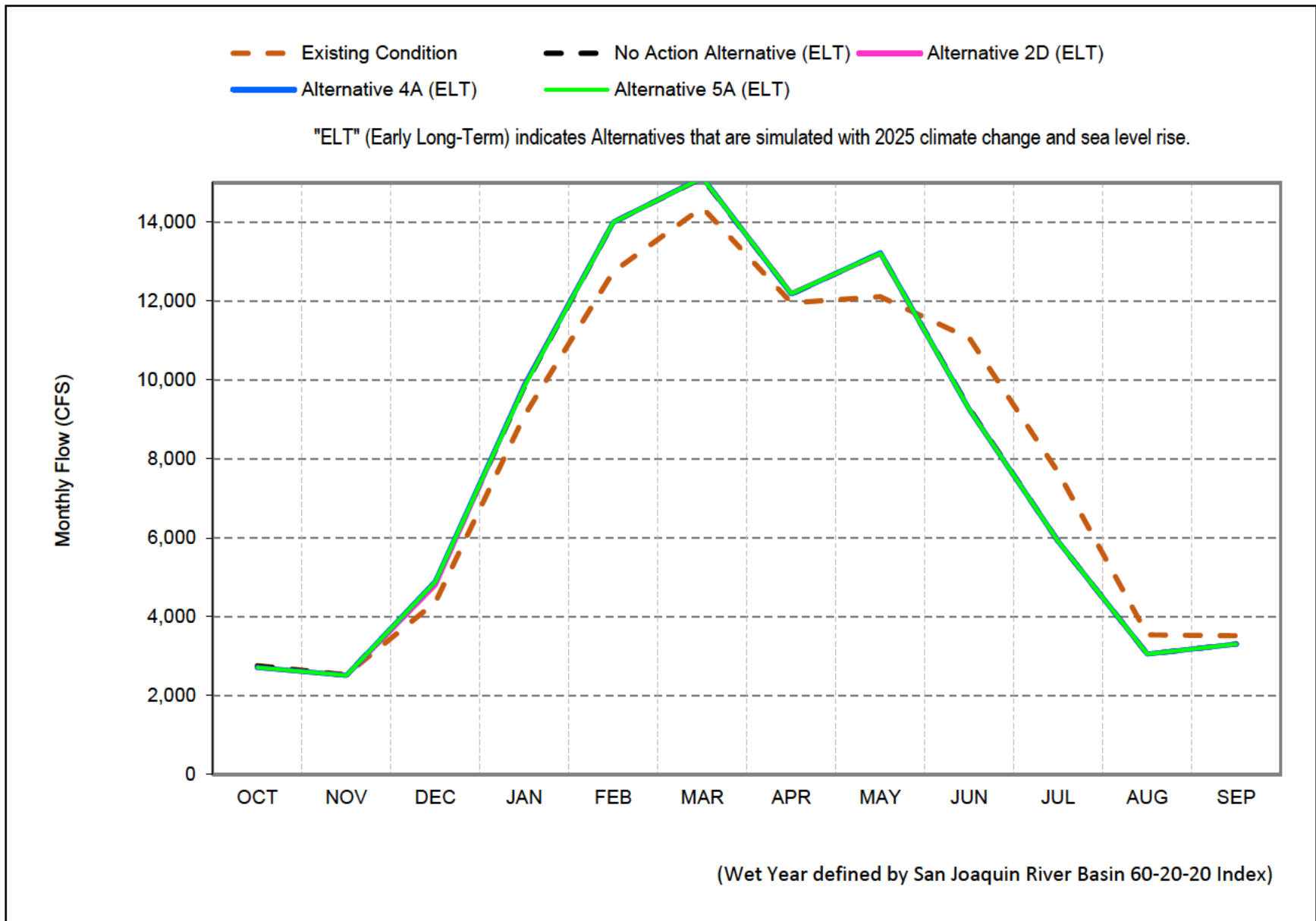


Figure 6-28
San Joaquin River Flow at Vernalis for Alternatives 2D, 4A and 5A, Average Wet Years

— Existing Condition - - - No Action Alternative (ELT) — Alternative 2D (ELT)
— Alternative 4A (ELT) — Alternative 5A (ELT)

"ELT" (Early Long-Term) indicates Alternatives that are simulated with 2025 climate change and sea level rise.

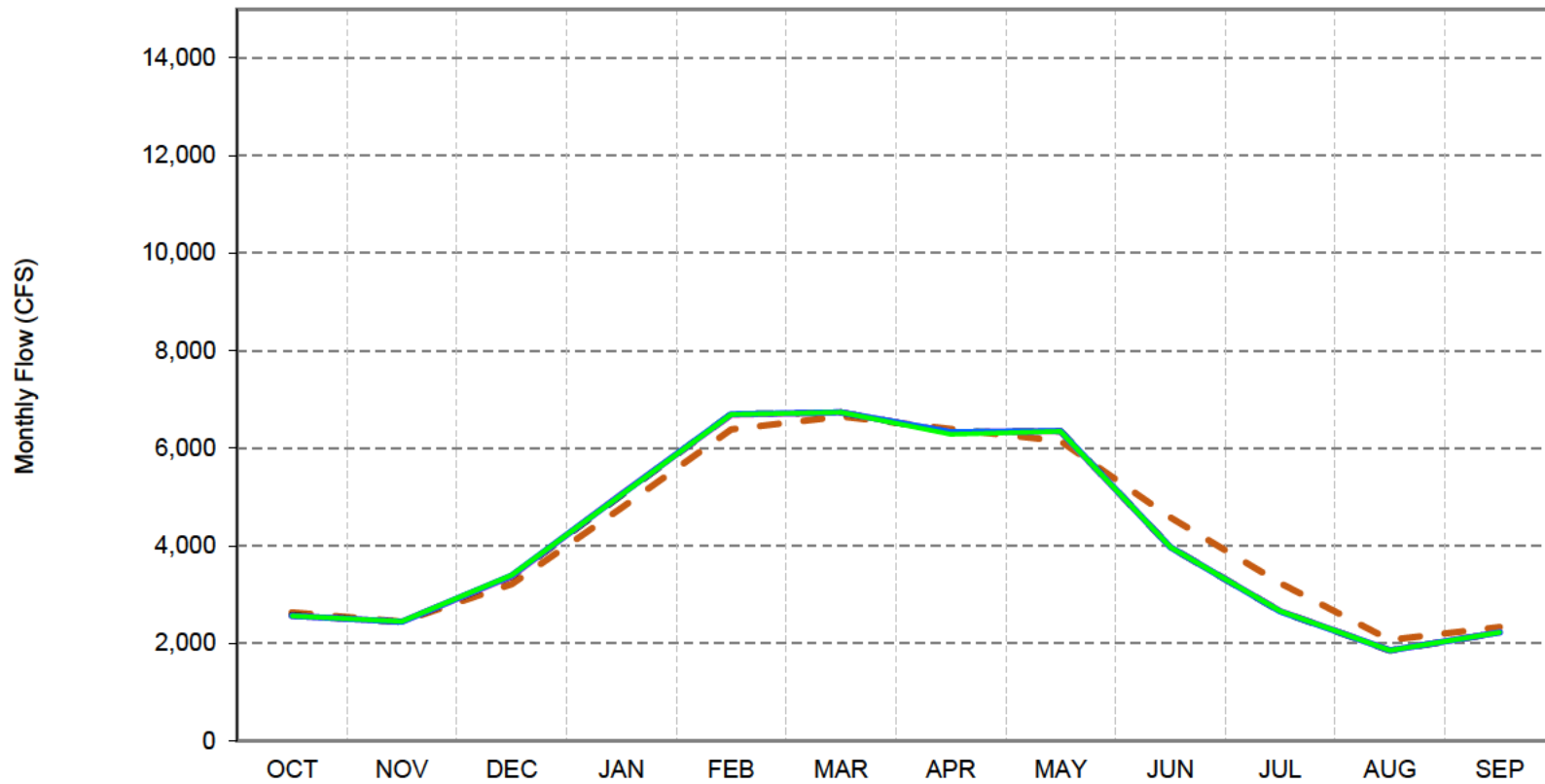


Figure 6-29
San Joaquin River Flow at Vernalis for Alternatives 2D, 4A and 5A, Long-Term Average

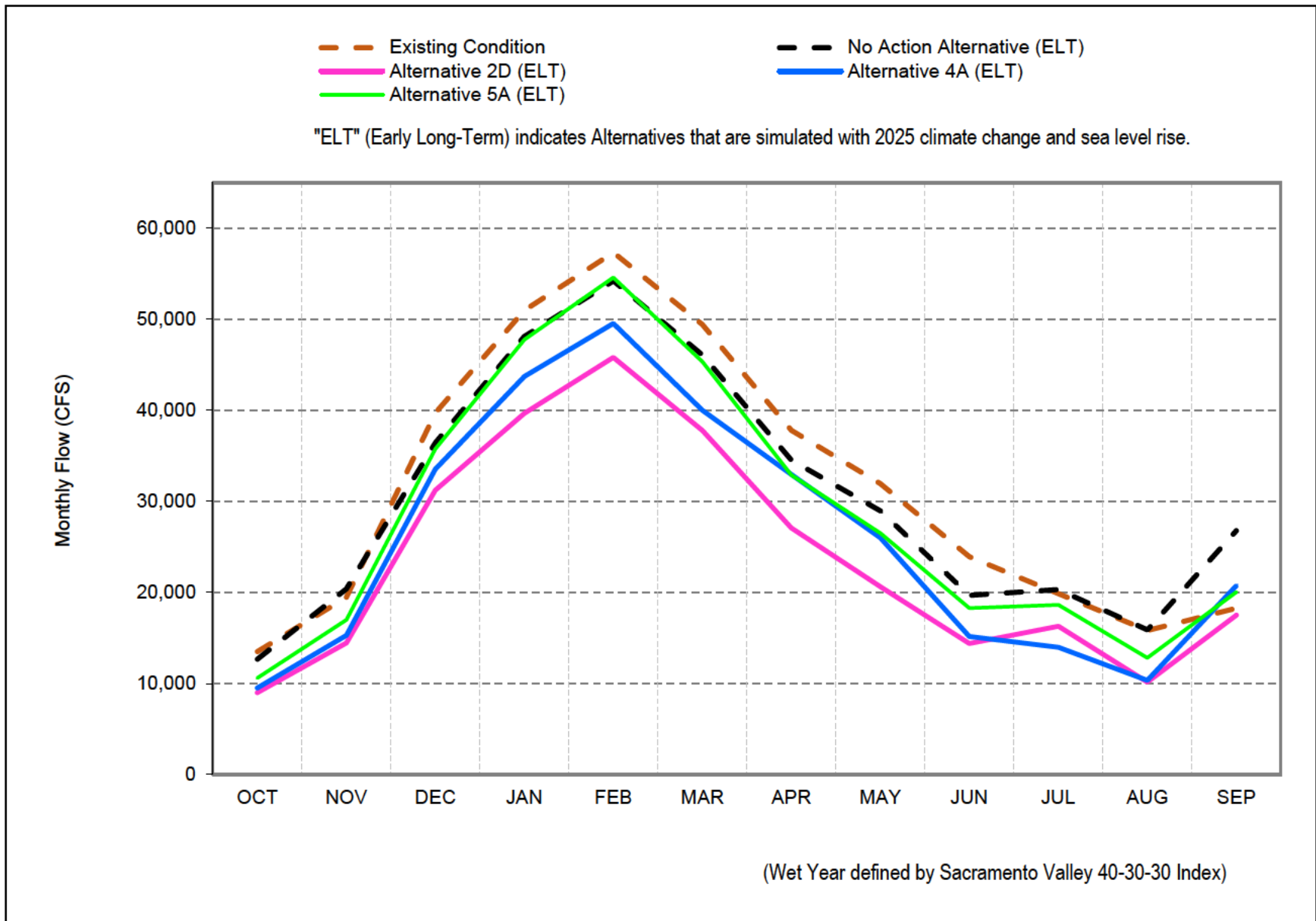


Figure 6-30
Sacramento River Flow downstream of North Delta Intakes for Alternatives 2D, 4A and 5A, Average Wet Years

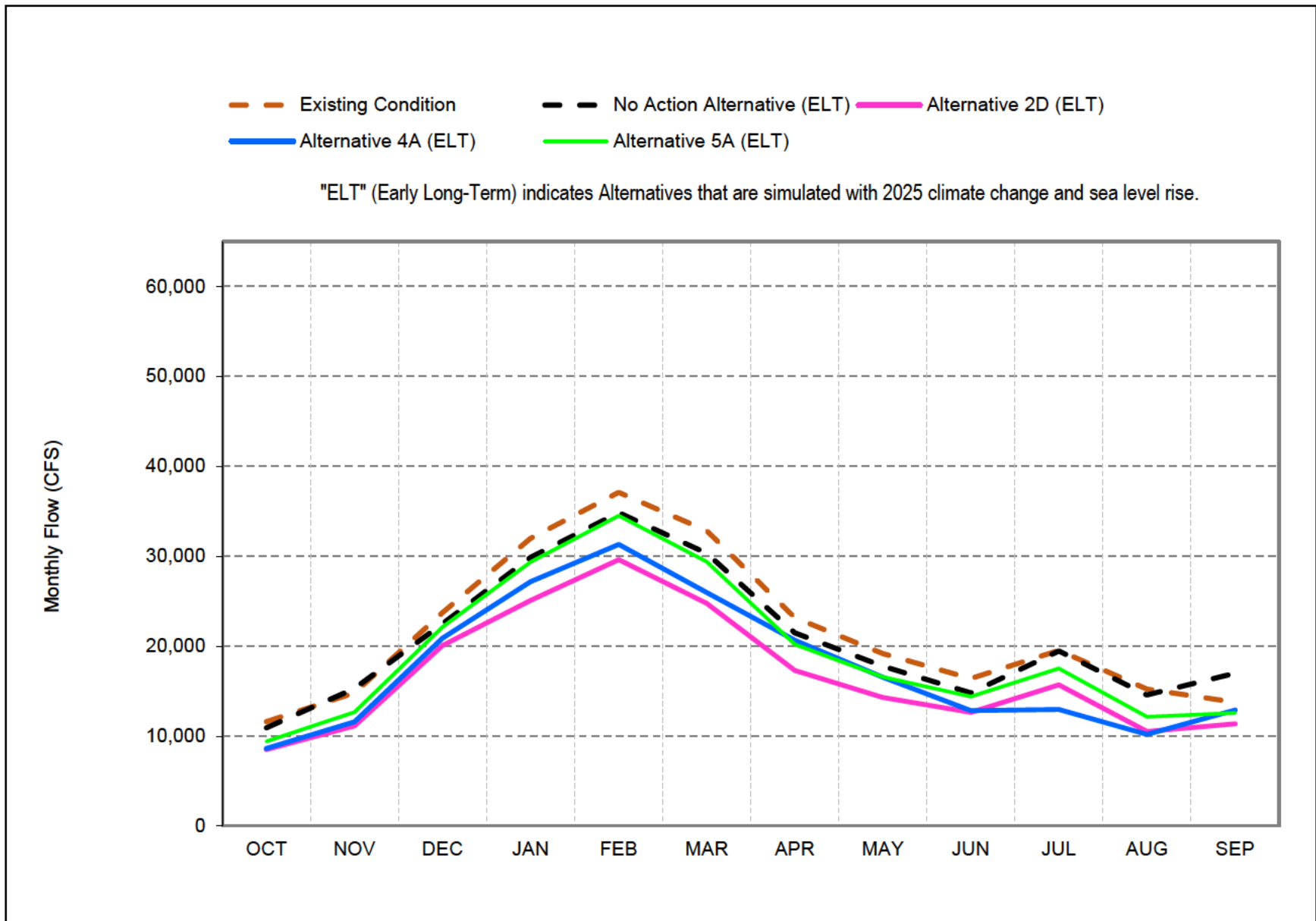


Figure 6-31
Sacramento River Flow downstream of North Delta Intakes for Alternatives 2D, 4A and 5A, Long-Term Average

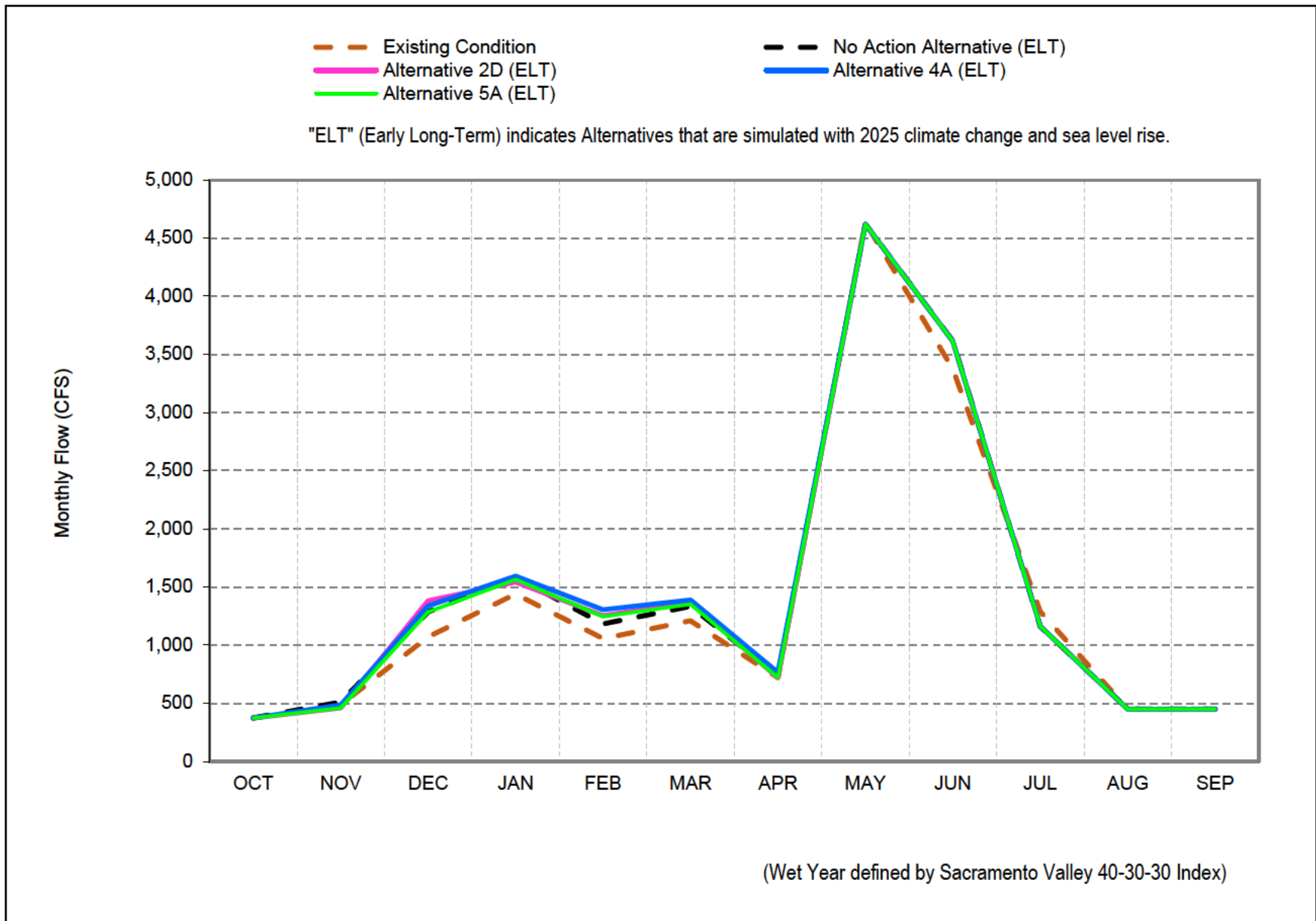


Figure 6-32
Trinity River Flow below Lewiston Dam for Alternatives 2D, 4A and 5A, Average Wet Years

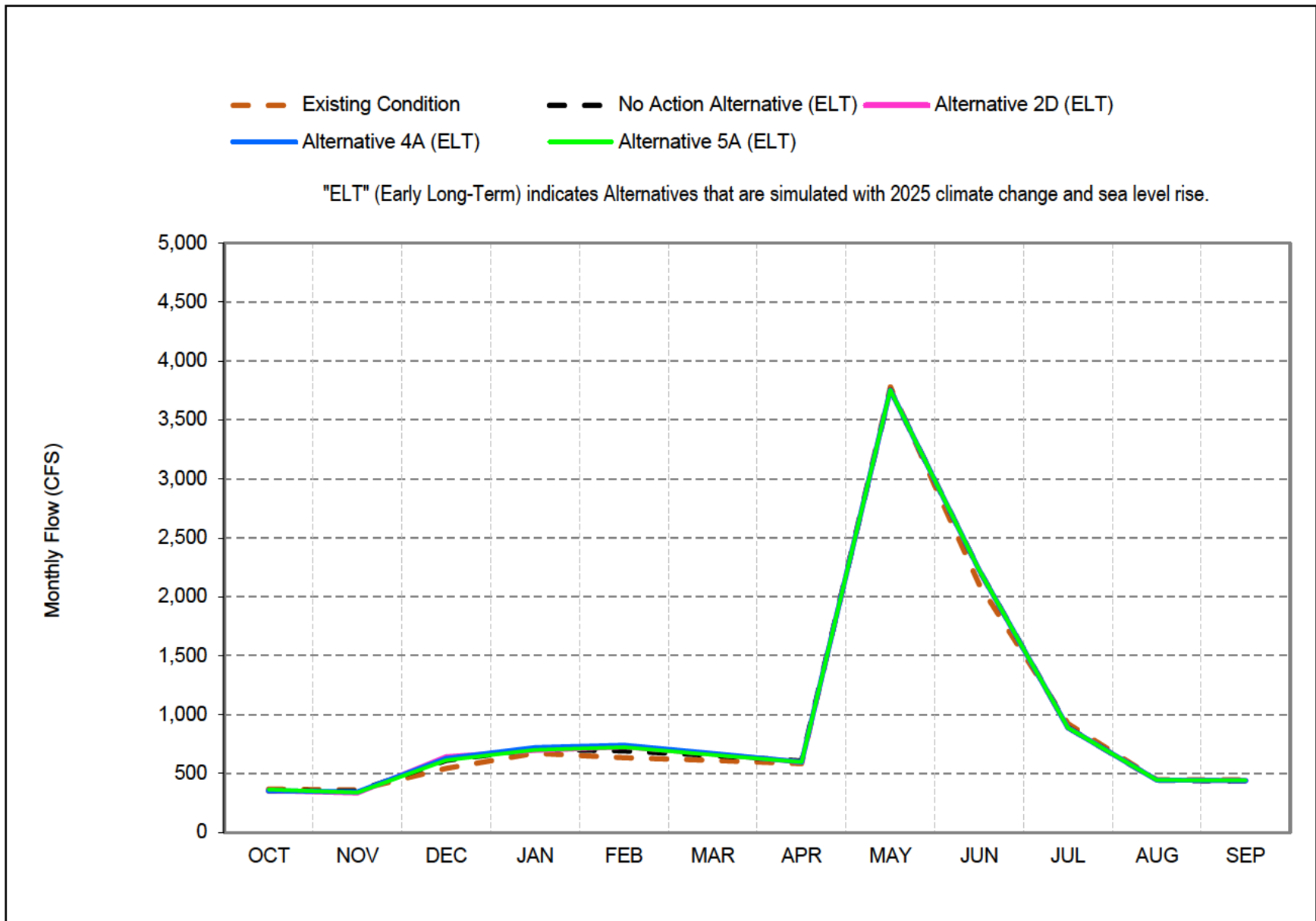


Figure 6-33
Trinity River Flow below Lewiston Dam for Alternatives 2D, 4A and 5A, Long-Term Average

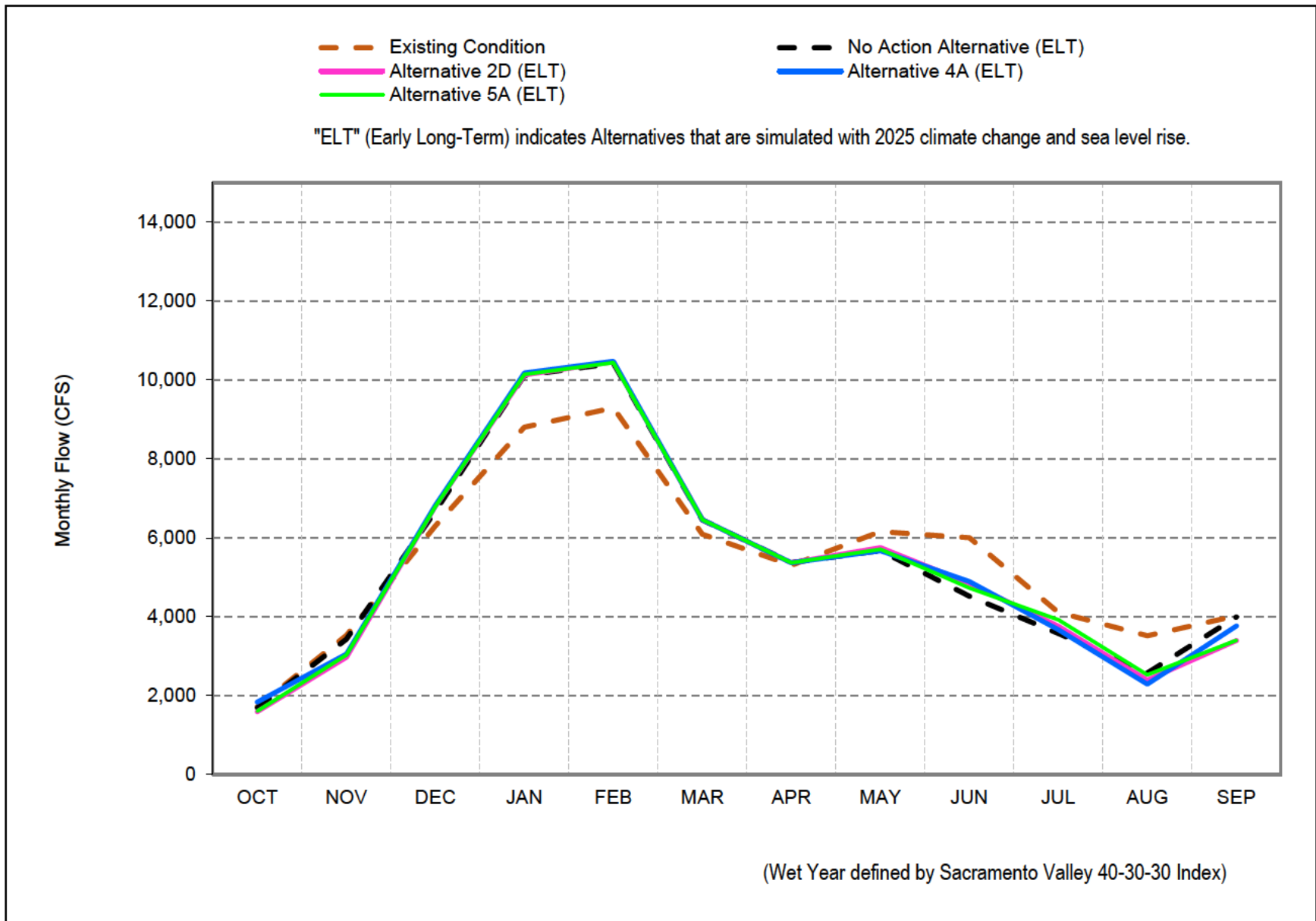


Figure 6-34
American River Flow below Nimbus Dam for Alternatives 2D, 4A and 5A, Average Wet Years

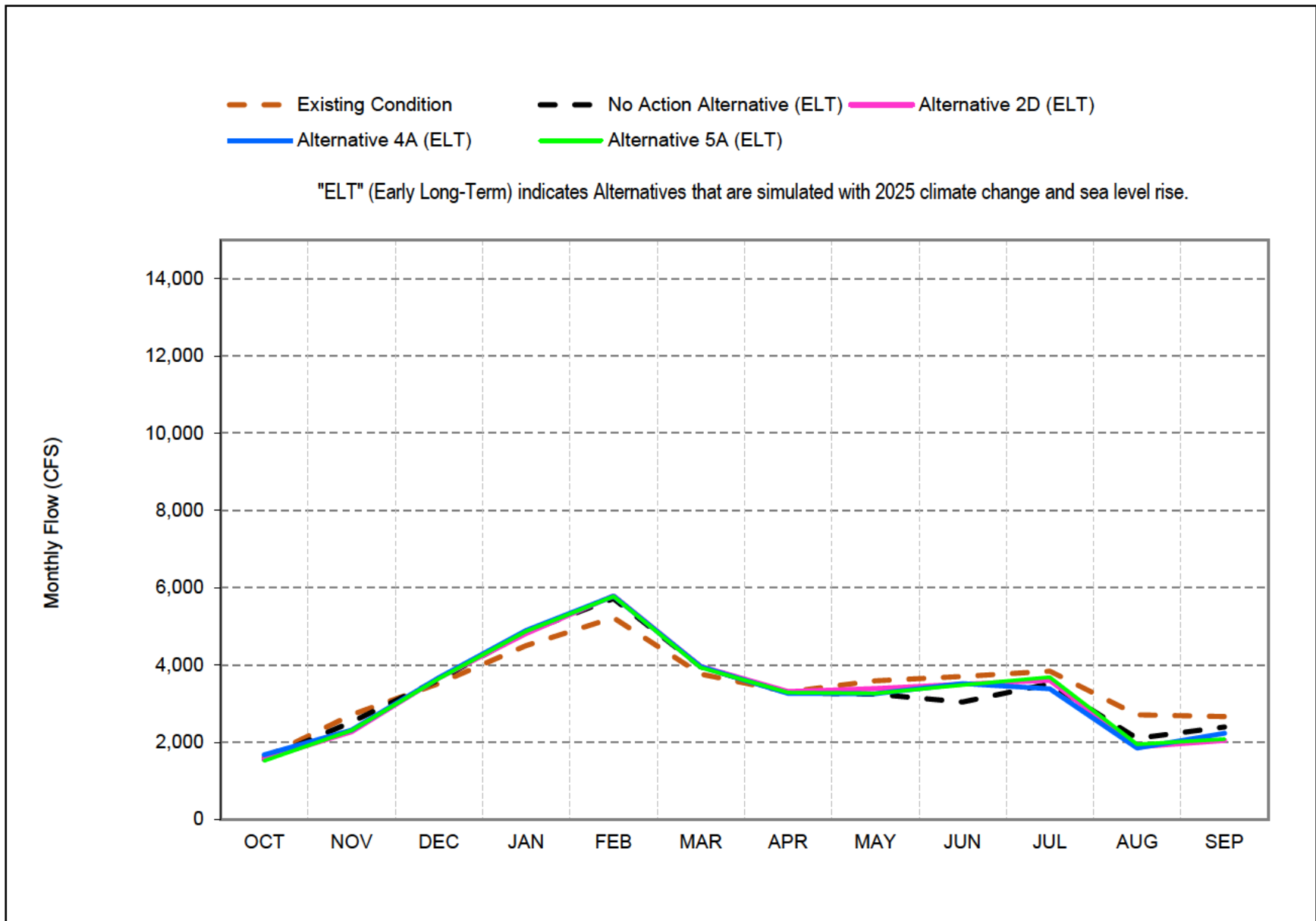


Figure 6-35
American River Flow below Nimbus Dam for Alternatives 2D, 4A and 5A, Long-Term Average

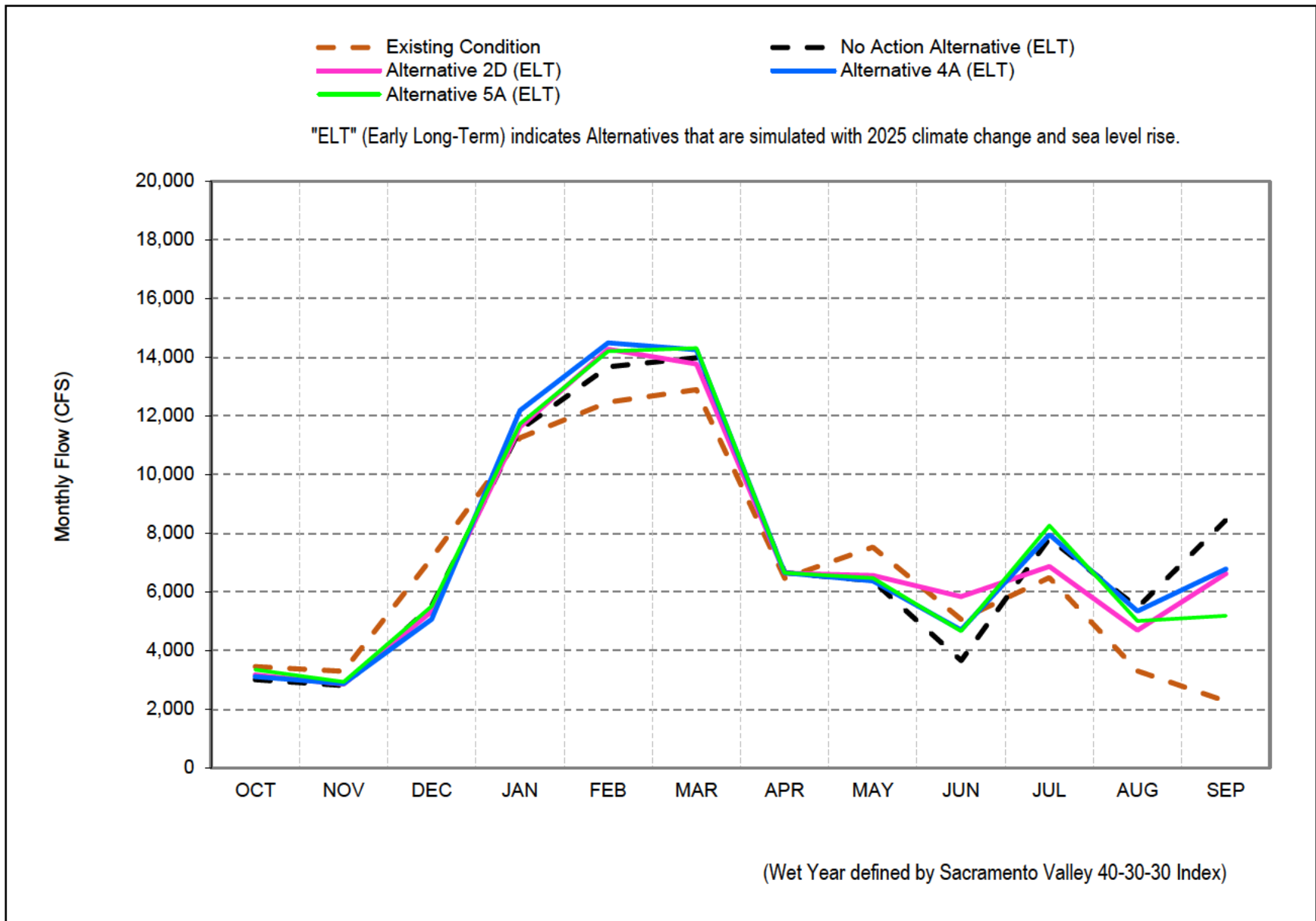


Figure 6-36
Feather River Flow at Thermalito Dam for Alternatives 2D, 4A and 5A, Average Wet Years

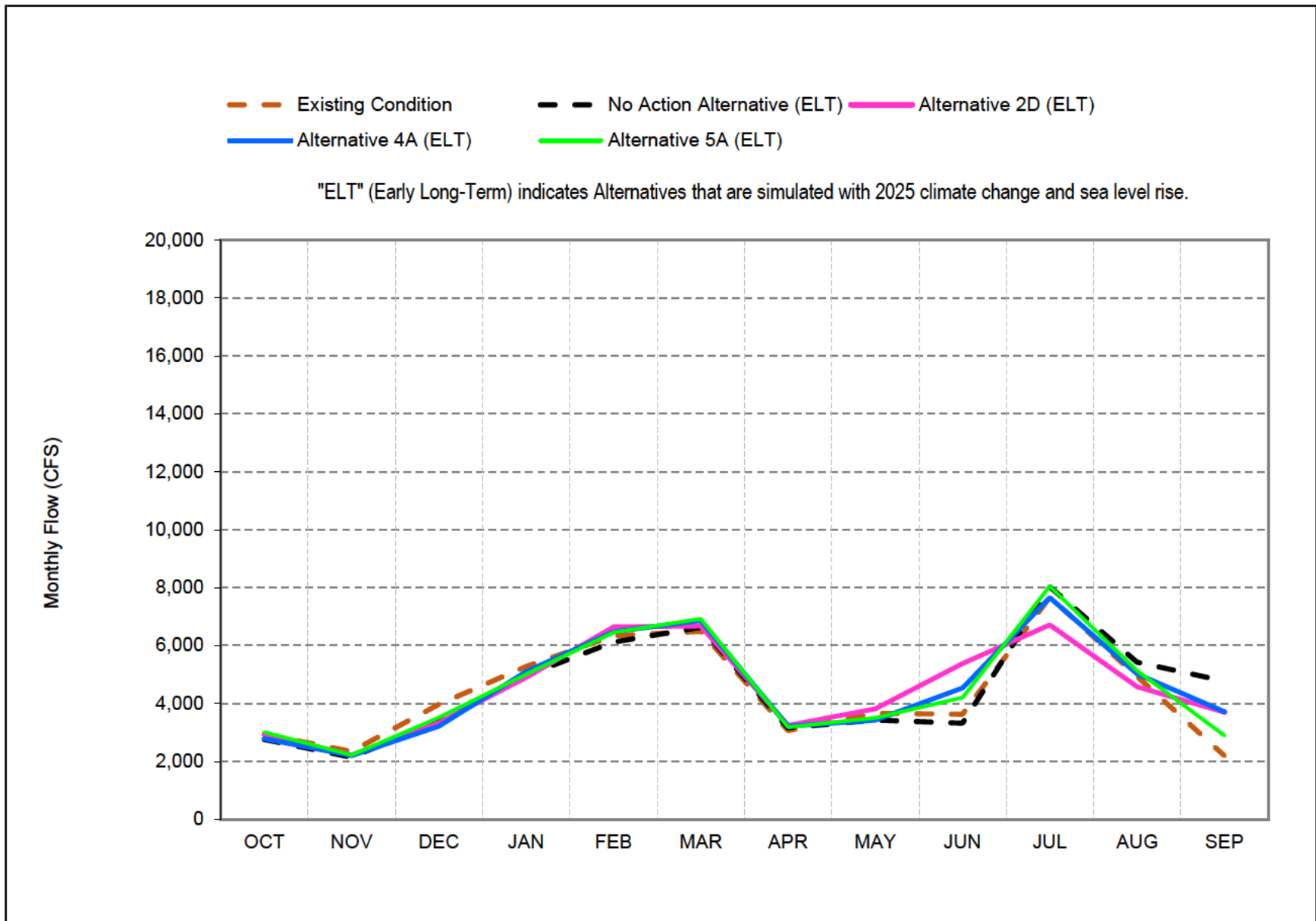


Figure 6-37
Feather River Flow at Thermalito Dam for Alternatives 2D, 4A and 5A, Long-Term Average

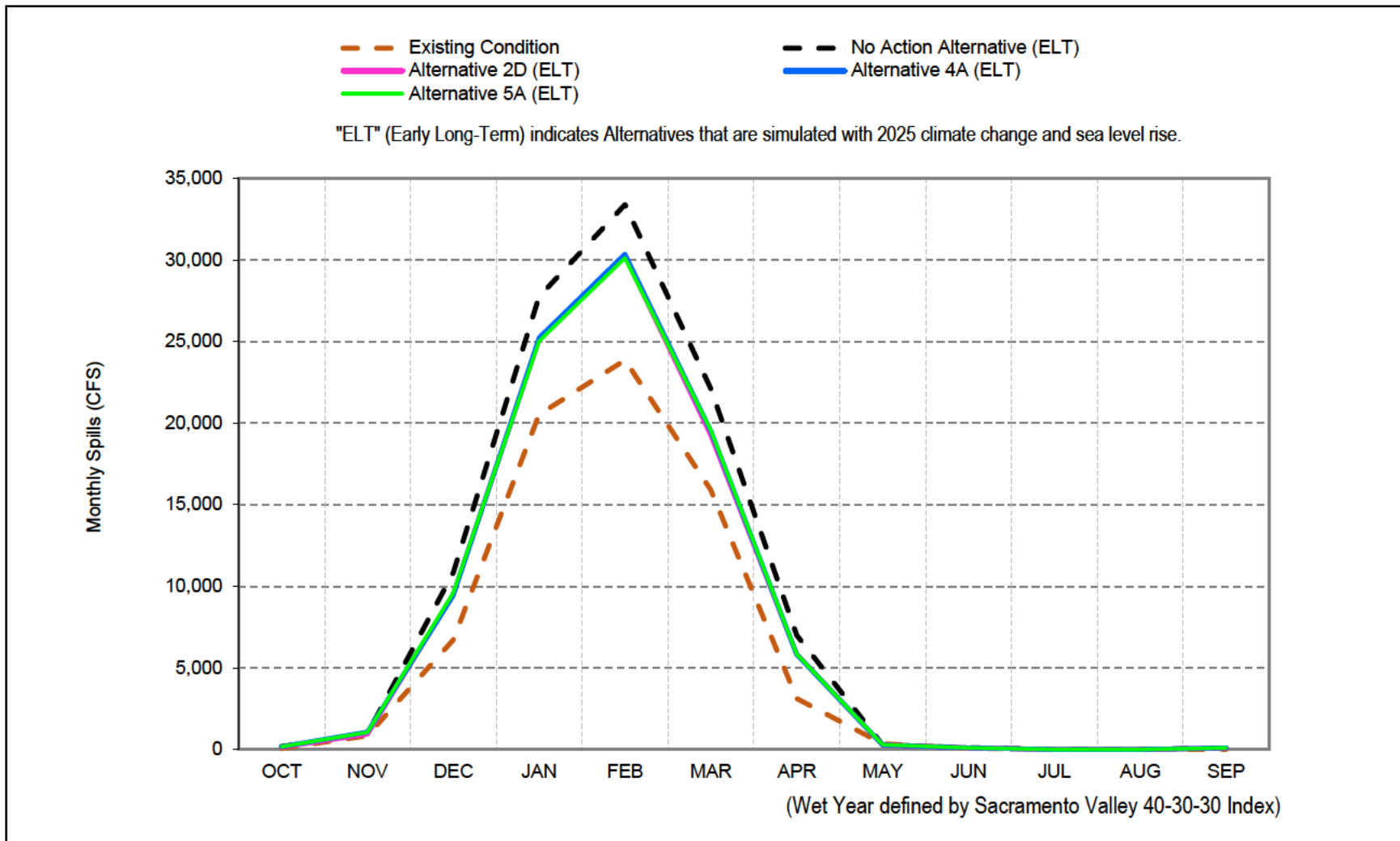


Figure 6-38

Flow Spills into Yolo Bypass at Fremont Weir for Alternatives 2D, 4A and 5A, Average Wet Years²

² Higher flow spills into Yolo Bypass under the No Action Alternative in the winter months compared to Alternatives 4A, 2D and 5A is a result of difference in modeling assumption of how the Fremont Weir notch is operating when the existing Fremont Weir is spilling. The notch is assumed to be open under the FEIRS No Action Alternative at ELT when the existing Fremont Weir is spilling, unlike the Alternatives 2D, 4A and 5A Action Alternatives, which assume it's closed. This is just a difference in modeling assumption, and there is no intent for differences in the future Fremont Weir modifications and operations between the FEIRS No Action Alternative and Action Alternatives. The effect of this difference in assumption is minor and limited to winter months of wet and above normal years at high flow conditions. This has no effect on the impact analysis and significance conclusions in any of the resource chapters in this EIR/S.

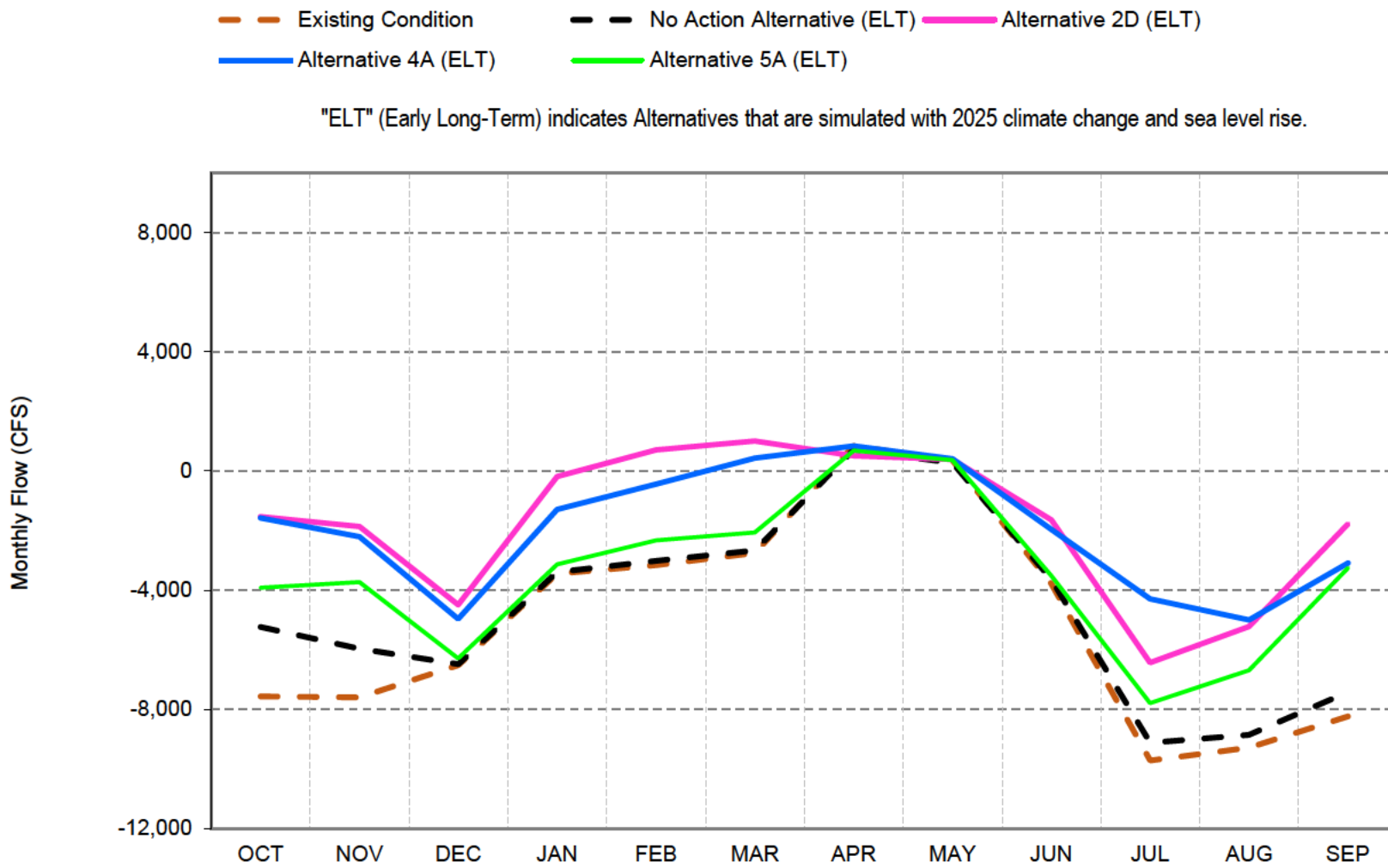


Figure 6-39
Old and Middle River Flows for Alternatives 2D, 4A and 5A, Long-Term Average