Some Hydrometeorological Effects of Climate Change for the North Fork Feather River Headwater Drainage with Focus on the Lake Almanor and the East Branch Subbasins

May 6, 2014



Compared Statewide an Analysis of Snowmelt Runoff Shows the Feather River to Have the Largest Shift towards an Earlier Snowmelt in March





Storms are Warmer in Recent Years Bringing Rainfall to Higher Elevations Compared with Years Prior to mid -1970



An Example of a Trending Decline In Lake Almanor's Snowpack



Recent Years Reveal an Increase in Number of Dry Water Years for North Fork Feather River







A Graphical Comparison of Canyon Dam Precipitation Compared With Runoff Utilized to Identify Increased Evapotranspiration which Started in the mid 1980's



For the Upper North Fork Feather @ Lake Almanor Late Summer and Fall Base Flows (Aquifer Outflow) Show a Declining Trend in Recent Years



The Decline in Aquifer Outflow of the Springs



Revealing A Loss of Surface Runoff Starting in the 1970's Due Mostly to Increased Evapotranspiration



Decline in Late Summer and Fall Base Flows for East Branch of the North Fork Feather River



The Successive Decline in Water Year Runoff from The East Branch of the North Fk Feather River along w/Increase in Evapotranspiration

