

VI - HYDROLOGIC FORECASTS

6-01 General.

a. **Role of the Project Owners.** OCPFRD, SBCPWFC, and the RCFCD do not prepare formal published hydrologic forecasts for Seven Oaks Dam.

b. **Role of the Corps of Engineers.** The Corps of Engineers does not prepare formal published hydrologic forecasts for Seven Oaks Dam, or any other Section 7 or Corps of Engineers, Los Angeles District operated projects.

c. **Role of Other Agencies.** Real-Time weather and flood runoff forecasts for the southern California region are issued by the NWS. Historical precipitation and stream flow data are available from OCPFRD, NWS, USGS, and San Bernardino County Water Resources Division. These data, while not of use in real-time operation, are important to studies of historical storms and floods that aid in the development and refinement of manual and computerized rainfall-runoff forecast models.

6-02 Flood Condition Forecasts. For the current approved water control plan for Seven Oaks Dam, forecasts of flood hydrographs are not required. However, routine evaluation of precipitation, resulting inflow, and forecast precipitation, provides valuable information for use in subjective evaluations of flood situations. Using such information, the project operator can evaluate if an ongoing flood will increase or decrease over the next 24 hours.

The Corps of Engineers uses forecasting methods to determine the inflow to Prado Dam, located downstream of Seven Oaks Dam on the lower Santa Ana River. The QPF/API algorithm is used to determine flood volume inflows. A Recession Limb Inflow Forecasting model is used to predict the recession limb of the inflow hydrograph. Details and procedure outlines for these forecasts methods are found in

the Corps of Engineers Los Angeles District's current Prado Dam Water Control Manual.

More recently, the LA District has been developing a Santa Ana River watershed model through the Corps Water Management System (CWMS). The CWMS control and visualization interface (CAVI) consists of various hydrologic modeling programs and access to real-time data. Forecast alternatives are modeled through the CWMS CAVI, generating inflow, water surface elevation, and outflow information, which can be used to make reservoir regulation decisions. Currently, the CWMS model for the Santa Ana River watershed is in its testing and development stage.

6-03 Conservation Purpose Forecasts. Water conservation is not part of the current operating plan. The plan may be modified in the future to accommodate water conservation, but in the mean time, forecasts for water conservation are not prepared.

6-04 Long Range Forecasts. Long-range forecasts are not currently made for Seven Oaks Dam.

6-05 Drought Forecasts. Currently, drought forecasts are not made at Seven Oaks Dam and reservoir.