

4.2.4 Other Water Supplies

Other water supplies are water transfers that would be obtained from various water users that hold surface water rights on the Sacramento River and the American River upstream of SCWA’s point of diversion. To obtain these supplies, SCWA would enter into purchase and transfer agreements with other entities that hold surface water rights. There are Sacramento River water supplies available for transfer in dry years, although the costs of these dry year supplies can exceed \$500 per ac-ft.

The assumed quantity of other water supplies is 9,600 ac-ft/yr in dry years and no supplies transferred in wet years. The annual supply to demand comparison presented in Section 5.2 indicates that these other water supplies would not be needed at all if the CVP, POU, and groundwater supply amounts are not less than assumed. Therefore, the amount of other water supplies that would be needed would vary depending on the water supply situation.

SCWA has a Memorandum of Understanding dated April 2000 with GSWC to purchase up to 1,000 gpm of water through the Mercantile Intertie located within the NSA. The intertie between the two systems currently serves as an emergency connection for both water purveyors. No routine water supply from GSWC is assumed.

4.2.5 Summary of Surface Water Supplies

Table 4-1 presents SCWA’s surface water supplies for the wet/average years, drier years, and driest years assuming no constraint on supply capacity. The long-term average supply values presented in Table 4-1 assume that the supplies are all fully utilized with no infrastructure capacity constraints for all of the water year types, except for the amount of appropriative water as described in Section 4.2.2. The frequency of occurrence of these water year types are assumed to be 64 percent, 28 percent, 8 percent of the years respectively, based on an analysis of a historical 70-year hydrologic period (SCWA, 2006, Pg. 7-3). The frequency of occurrence of different water year types may change in the future, such as due to the impacts of climate change.

Table 4-1. Summary of Surface Water Supplies, ac-ft/yr

Water supply sources	Contract/water right/transfer amount	Wet/average year	Drier year	Driest year	Long-term average ^(b)
U.S. Bureau of Reclamation – CVP Supply (SMUD 1, SMUD 2, and Fazio Water)	45,000	45,000	33,750 ^(a)	22,500 ^(a)	40,050
Appropriative Water – SWRCB Permit 21209	71,000	35,000	0	0	22,400
City of Sacramento’s American River POU Water Rights	9,300	9,300	0	0	5,952
Other water supplies	9,600	0	9,600	9,600	3,456
Total	134,900	89,300	43,350	32,100	71,858

^(a) CVP drier and driest year supplies are the lesser of these values or 75 and 50 percent of the three year historical average, respectively.

^(b) Based on full use of all supplies for each water year type, which is different than the projected actual use of supplies. The frequency of occurrence for the wet/average, drier, and driest years assumed to be 64 percent, 28 percent, 8 percent of the years respectively, based on an analysis of a 70-year hydrologic period (SCWA, 2006, Pg. 7-3).