Napa River Watershed at Calistoga	
Area (acres)	13,929
Precipitation (Average Annual Depth, ft)	
1952-1959	--
1959-1966	--
1976-1983	3.89
Recharge (Average Annual Depth, ft)	
1952-1959	--
1959-1966	--
1976-1983	0.76
Average Annual Recharge* (acre-feet/acre)	0.75

Napa River Watershed at St. Helena	
Area (acres)	50,973
Precipitation (Average Annual Depth, ft)	
1952-1959	3.25
1959-1966	2.70
1976-1983	3.73
Recharge (Average Annual Depth, ft)	
1952-1959	0.28
1959-1966	0.31
1976-1983	0.68
Average Annual Recharge* (acre-feet/acre)	0.43

Conn Creek Watershed	
Area (acres)	35,501
Precipitation (Average Annual Depth, ft)	
1952-1959	2.91
1959-1966	--
1976-1983	--
Recharge (Average Annual Depth, ft)	
1952-1959	0.74
1959-1966	--
1976-1983	--
Average Annual Recharge* (acre-feet/acre)	0.59

Napa River Watershed near Napa	
Area (acres)	139,803
Precipitation (Average Annual Depth, ft)	
1952-1959	--
1959-1966	2.51
1976-1983	3.42
Recharge (Average Annual Depth, ft)	
1952-1959	--
1959-1966	0.37
1976-1983	0.68
Average Annual Recharge* (acre-feet/acre)	0.50

Milliken Creek Watershed	
Area (acres)	11,111
Precipitation (Average Annual Depth, ft)	
1952-1959	--
1959-1966	--
1976-1983	3.14
Recharge (Average Annual Depth, ft)	
1952-1959	--
1959-1966	--
1976-1983	0.31
Average Annual Recharge* (acre-feet/acre)	0.22

Dry Creek Watershed	
Area (acres)	11,152
Precipitation (Average Annual Depth, ft)	
1952-1959	3.19
1959-1966	2.65
1976-1983	--
Recharge (Average Annual Depth, ft)	
1952-1959	0.12
1959-1966	0.24
1976-1983	--
Average Annual Recharge* (acre-feet/acre)	0.18

Redwood Creek Watershed	
Area (acres)	6,431
Precipitation (Average Annual Depth, ft)	
1952-1959	--
1959-1966	2.71
1976-1983	--
Recharge (Average Annual Depth, ft)	
1952-1959	--
1959-1966	0.33
1976-1983	--
Average Annual Recharge* (acre-feet/acre)	0.30

Napa Creek Watershed at Napa	
Area (acres)	9,883
Precipitation (Average Annual Depth, ft)	
1952-1959	--
1959-1966	--
1976-1983	3.44
Recharge (Average Annual Depth, ft)	
1952-1959	--
1959-1966	--
1976-1983	0.39
Average Annual Recharge* (acre-feet/acre)	0.36

Tulucay Creek Watershed	
Area (acres)	8,049
Precipitation (Average Annual Depth, ft)	
1952-1959	--
1959-1966	--
1976-1983	2.53
Recharge (Average Annual Depth, ft)	
1952-1959	--
1959-1966	--
1976-1983	0.11
Average Annual Recharge* (acre-feet/acre)	0.12

* The average annual recharge per unit area is calculated from the average annual recharge for each gaged watershed presented in Table 8-9 and the total gaged watershed acreage (Table 8-10). This value does not account for variations in topography, land use, and soils that affect the distribution of precipitation, runoff, and infiltration within and among the gaged watersheds. Actual recharge per acre will vary significantly from the printed value within each gaged watershed and over time. Streamflow records are more complete for some watersheds; this affects the average annual recharge estimates. For details see the report " Updated Hydrogeologic Conceptualization and Characterization of Conditions", Luhdorff & Scalmanini Consulting Engineers and MBK Engineers, January 2013.

Estimated Recharge in Napa Valley Area by Hydrologic Period

Prepared for the Napa County Groundwater Resources Advisory Committee

SCALE: 1" = 3.0 miles
DATE: 05/2013