

PS2_6660_6490

LSeqs: H51015, N51015, N51820

Areas: 4962.841 ac, 1530.347 ac, 7172.361 ac

Total area = 13665.549 acres = 21.35 sq. mi (VA Hydro: 21.33 sq. mi) ✓

Area fractions: 0.3632, 0.1120, 0.5248

$$\text{Precip. Change } 90\% : 14.52(0.3632) + 14.10(0.1120) + 14.50(0.5248) \\ = 14.46 \quad \checkmark$$

$$\text{Temp. Change } 90\% : 2.872(0.3632) + 2.914(0.1120) + 2.880(0.5248) \\ = 2.881 \quad \checkmark$$

$$\text{Run ID 11 } Q_{\text{out}} = 195 \quad \checkmark$$

$$\text{Run ID 16 } Q_{\text{out}} = 193 \quad \checkmark$$

Flow Change $\approx -1\%$

$$\text{Base Scen Evap} = 0.003169(0.3632) + 0.003108(0.1120) + 0.003283(0.5248) \\ = 0.003222 \quad \checkmark$$

$$\text{CC Scen Evap} = 0.003256(0.3632) + 0.003201(0.1120) + 0.003373(0.5248) \\ = 0.003311 \quad \checkmark$$

$$\text{Evap } \%, \text{ Change} = +2.78\% \quad \checkmark$$

$$\text{Base Scen Precip} : 0.005146(0.3632) + 0.004739(0.1120) + 0.004804(0.5248) \\ = 0.004921 \quad \checkmark$$

$$\text{CC Scen Precip} : 0.005854(0.3632) + 0.005340(0.1120) + 0.005422(0.5248) \\ = 0.005570 \quad \checkmark$$

$$\text{Precip } \%, \text{ Change} : +13.2\% \quad \checkmark$$

YPO_6782_0000

LScgs: NS1101, NS1127

Areas: 9773.087 ac, 14980.23 ac

Total area = 24753.317 acres = 38.67 sq mi

Area fractions = 0.3948, 0.6051

$$\text{Prep. Change} = 16.359(0.3948) + 16.393(0.6051) = 16.378 \quad \checkmark$$

$$\text{Temp. Change} = 2.701(0.3948) + 2.633(0.6051) = 2.660 \quad \checkmark$$

$$\text{Run 11 Qout} = 1226.7 \quad \checkmark$$

$$\text{Run 16 Qout} = 1665.7 \quad \checkmark$$

$$\text{Flow Change \%} = 35.8 \quad \checkmark$$

$$\text{Base Scen Evap} = 0.003708(0.3948) + 0.003738(0.6051) = 0.003726 \quad \checkmark$$

$$\text{CC Scen Evap} = 0.003786(0.3948) + 0.003816(0.6051) = 0.003804 \quad \checkmark$$

$$\text{Evap Change \%} = +2.01\% \quad \checkmark$$

$$\text{Base Scen Prep} = 0.005074(0.3948) + 0.005081(0.6051) = 0.005078 \quad \checkmark$$

$$\text{CC Scen Prep} = 0.005590(0.3948) + 0.005595(0.6051) = 0.005592 \quad \checkmark$$

$$\text{Prep. Change \%} = +10.1\% \quad \checkmark$$