

<u>Month</u>	<u>Usable Flow (ac-ft/mo)</u>	<u>Cum Flow (ac-ft)</u>	<u>Cum Supply Needed (ac-ft)</u>	<u>Cum Supply Deficit (ac-ft)</u>
Jan-01	4,420	4,420	(3,959/mo)	(Need - Flow)
Feb-01	4,799	9,219		
Mar-01	5,621	14,841		
Apr-01	5,804	20,645		
May-01	6,064	26,709		
Jun-01	5,397	32,106		
Jul-01	5,248	37,354		
Aug-01	4,717	42,070		
Sep-01	4,205	46,275		
Oct-01	4,372	50,647		
Nov-01	4,933	55,580		
Dec-01	5,336	60,916		
Jan-02	5,016	65,933		
Feb-02	5,561	71,493		
Mar-02	5,526	77,019		
Apr-02	6,209	83,228		
May-02	5,904	89,132		
Jun-02	4,550	93,682		
<b>Jul-02</b>	<b>4,319</b>	<b>98,001</b>	<b>98,001</b>	0
Aug-02	3,217	101,218	101,960	742
Sep-02	2,328	103,547	105,919	2,373
Oct-02	2,447	105,994	109,878	3,884
Nov-02	2,636	108,631	113,837	5,207
Dec-02	2,802	111,433	117,796	6,364
Jan-03	3,188	114,621	121,755	7,134
Feb-03	3,756	118,377	125,714	7,338
Mar-03	3,797	122,173	129,673	7,500
Apr-03	4,560	126,733	133,632	6,899
May-03	3,779	130,513	137,591	7,079
Jun-03	3,415	133,928	141,550	7,623
Jul-03	3,163	137,091	145,509	8,418
Aug-03	2,864	139,955	149,468	9,513
Sep-03	2,415	142,371	153,427	11,057
Oct-03	3,212	145,582	157,386	11,804
Nov-03	2,806	148,388	161,345	12,957
Dec-03	3,765	152,154	165,304	<b>13,151</b>
Jan-04	4,731	156,884	169,263	12,379
Feb-04	5,011	161,896	173,222	11,326
Mar-04	5,733	167,629	177,181	9,553
Apr-04	5,833	173,461	181,140	7,679
May-04	6,318	179,779	185,099	5,320
Jun-04	6,451	186,230	189,058	2,829
Jul-04	5,763	191,993	193,017	1,025
Aug-04	5,654	197,646	196,976	-670
Sep-04	4,812	202,458	200,935	-1,523
Oct-04	5,232	207,690	204,894	-2,796
Nov-04	5,084	212,775	208,853	-3,921
Dec-04	5,008	217,782	212,812	-4,970

Planning for M&I supply of 43 mgd = 3,959 ac-ft/mo. How large a reservoir is required to accommodate this demand based upon historical streamflow record? Note that streamflows shown are "usable" streamflows: all other demands (e.g., senior water rights, instream flow requirements, etc.) have been subtracted from actual streamflow.

