

Water & Mass Balances on EAA Reservoirs & STA's
BMP Performance: 25% (ECP Design)

A-D13R
WY 1979-1988

	<---- Reservoir or STA Inflows ---->				<---- Reservoir or STA Outflows ---->						Total to WCA	Reduction
	Runoff	Lake Release	Upstream Reservoir	Total	Irrigation	Downstream Reservoir	STA-34	WCAs*	Total	Bypass		
Flow (kac-ft/yr)												
Talisman	184.5	0.0	0.0	184.5	159.4	5.9	0.0		165.2			19.3
EAA North	0.0	362.2	5.9	368.0	1.6	51.2	314.4		367.2			0.8
EAA South	0.0	10.5	51.2	61.6	0.0	0.0	66.1		66.1			-4.5
Total Res.	184.5	372.7		557.1	161.0		380.5		541.5			15.6
STA-34	116.1	138.9	380.5	635.4	0.0			636.4	636.4	22.9	659.2	-0.9
Res+STA34	300.5	511.5		812.0	161.0			636.4	797.3	22.9	659.2	14.7
STA-6	19.3	2.9		22.2	1.4			17.9	19.2	0.0	17.9	2.9
STA-5	102.3	31.7		134.0				128.0	128.0	0.0	128.0	6.0
STA-2	178.8	5.6		184.4				177.5	177.5	9.3	186.8	6.9
STA-1W	165.9	0.0		165.9				168.0	168.0	0.0	168.0	-2.1
STA-1E	118.3	0.0		118.3	0.0			123.7	123.7		123.7	-5.4
Total STA	700.5	179.0	380.5	1260.0	1.4			1251.4	1252.8	32.2	1283.5	7.3
Total	885.0	551.7		1436.6	162.4			1251.4	1413.7	32.2	1283.5	22.9
Total P Load (mtons/yr)												
Talisman	36.2	0.0	0.0	36.2	19.2	0.7	0.0		19.9			16.3
EAA North	0.0	29.2	0.7	29.9	0.1	3.5	21.8		25.4			4.4
EAA South	0.0	0.9	3.5	4.4	0.0	0.0	6.6		6.6			-2.2
Total Res.	36.2	30.1		66.3	19.3		28.4		47.7			18.5
STA-34	26.0	11.7	28.4	66.0	0.0			29.5	29.5	4.5	34.0	36.5
Res+STA34	62.2	41.7		103.9	19.3			29.5	48.9	4.5	34.0	55.0
STA-6	4.7	0.2		4.9	0.1			1.1	1.2	0.0	1.1	3.7
STA-5	33.1	2.5		35.6				12.7	12.7	0.0	12.7	22.9
STA-2	36.5	0.5		37.0				11.7	11.7	1.9	13.6	25.3
STA-1W	42.8	0.0		42.8				11.8	11.8	0.0	11.8	31.0
STA-1E	27.0	0.0		27.0	0.0			6.6	6.6		6.6	20.5
Total STA	170.0	14.9	28.4	213.3	0.1			73.4	73.5	6.4	79.8	139.9
Total	206.2	45.0		251.2	19.4			73.4	92.8	6.4	79.8	158.4
Total P Conc (ppb)												
Talisman	159			159	98	98			98			61
EAA North		65	98	66	56	56	56		56			10
EAA South		68	56	58			81		81			-23
Total Res.	159	65		96	97		60		71			
STA-34	181	68	60	84				38	38	159	42	47
Res+STA34	168	66		104	97			38	50	159	42	54
STA-6	197	64		180	51			51	51		51	129
STA-5	262	64		215				80	80		80	135
STA-2	165	78		163				53	53	163	59	109
STA-1W	209			209				57	57		57	152
STA-1E	185			185				43	43		43	142
Total STA	197	68	60	137	51			48	48	160	50	90
Total	189	66		142	97			48	53	160	50	88

* Outflow to WCA's includes WCA-1, WCA-2A, WCA-3A, Holeyland & Rotenberger