

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

A-D13R
1965-1995

	<---- Reservoir or STA Inflows ---->				<---- Reservoir or STA Outflows ---->				Total Bypass	Total to WCA	Reduction	
	Runoff	Lake Release	Upstream Reservoir	Total	Irrigation	Downstream Reservoir	STA-34	WCAs*				Total
Flow (kac-ft/yr)												
Talisman	165.5	0.0	0.0	165.5	141.6	6.6	0.0		148.2		17.2	
EAA North	0.0	262.5	6.6	269.1	5.3	55.6	200.9		261.7		7.4	
EAA South	0.0	15.4	55.6	71.0	0.0	0.0	72.7		72.7		-1.7	
Total Res.	165.5	277.9		443.4	146.9		273.6		420.4		23.0	
STA-34	192.2	213.0	273.6	678.8	0.0			677.7	677.7	27.8	705.5	1.1
Res+STA34	357.7	491.0		848.7	146.9			677.7	824.6	27.8	705.5	24.1
STA-6	23.4	3.0		26.3	1.5			22.9	24.4	0.0	22.9	1.9
STA-5	130.6	29.0		159.6				156.0	156.0	0.4	156.3	3.6
STA-2	197.4	9.4		206.8				201.8	201.8	7.8	209.6	5.0
STA-1W	178.5	0.0		178.5				179.6	179.6	0.0	179.6	-1.1
STA-1E	122.4	0.0		122.4	0.0			127.8	127.8		127.8	-5.4
Total STA	844.6	254.3	273.6	1372.4	1.5			1365.8	1367.3	35.9	1401.7	5.2
Total	1010.1	532.2		1542.3	148.4			1365.8	1514.2	35.9	1401.7	28.1
Total P Load (mtons/yr)												
Talisman	32.5	0.0	0.0	32.5	16.4	0.8	0.0		17.1		15.4	
EAA North	0.0	21.2	0.8	22.0	0.4	3.9	14.0		18.2		3.7	
EAA South	0.0	1.3	3.9	5.2	0.0	0.0	6.3		6.3		-1.2	
Total Res.	32.5	22.5		55.0	16.7		20.3		37.0		17.9	
STA-34	39.0	18.4	20.3	77.8	0.0			36.2	36.2	5.4	41.7	41.5
Res+STA34	71.5	40.9		112.4	16.7			36.2	53.0	5.4	41.7	59.5
STA-6	5.7	0.2		5.9	0.1			1.7	1.8	0.0	1.7	4.1
STA-5	42.2	2.3		44.5				18.9	18.9	0.1	19.1	25.6
STA-2	40.3	0.9		41.2				14.8	14.8	1.6	16.4	26.3
STA-1W	46.1	0.0		46.1				13.8	13.8	0.0	13.8	32.3
STA-1E	28.0	0.0		28.0	0.0			7.1	7.1		7.1	20.9
Total STA	201.3	21.8	20.3	243.4	0.1			92.6	92.7	7.1	99.7	150.7
Total	233.8	44.3		278.1	16.8			92.6	109.4	7.1	99.7	168.7
Total P Conc (ppb)												
Talisman	159			159	94	94			94		65	
EAA North		65	94	66	56	56	56		56		10	
EAA South		67	56	59			70		70		-12	
Total Res.	159	66		100	92		60		71			
STA-34	164	70	60	93				43	43	159	48	49
Res+STA34	162	68		107	92			43	52	159	48	55
STA-6	197	64		182	60			60	60		60	122
STA-5	262	64		226				98	98	262	99	128
STA-2	165	78		161				60	60	163	63	102
STA-1W	209			209				62	62		62	147
STA-1E	185			185	45			45	45		45	140
Total STA	193	70	60	144	60			55	55	161	58	89
Total	187	67		146	92			55	59	161	58	88

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