

Appendix 11M2 Yolo Bypass Weir Spill Frequencies

Table 1. Count of Years that Exceed Fremont Weir Flow Magnitude Thresholds Between 1922 and 2003 for Each Alternative

Number of years that contain events with consecutive days of spills (max 7 day gap to count as new event)	Count of Years That Exceed Fremont Weir Flow Magnitude Thresholds Between 1922 and 2003, Alternative 1A														
	> 0 days			>10 days			> 20 days			> 30 days			> 45 days		
	No Action	Alternative 1A	Difference	No Action	Alternative 1A	Difference	No Action	Alternative 1A	Difference	No Action	Alternative 1A	Difference	No Action	Alternative 1A	Difference
> 0 cfs	81	82	1 1.2%	77	77	0 0.0%	74	74	0 0.0%	70	70	0 0.0%	55	53	-2 -3.6%
> 1,000 cfs	71	71	0 0.0%	55	51	-4 -7.3%	45	45	0 0.0%	39	39	0 0.0%	33	33	0 0.0%
> 2,000 cfs	70	68	-2 -2.9%	49	48	-1 -2.0%	41	41	0 0.0%	34	34	0 0.0%	26	26	0 0.0%
> 3,000 cfs	64	63	-1 -1.6%	47	46	-1 -2.1%	36	34	-2 -5.6%	30	29	-1 -3.3%	22	21	-1 -4.5%
> 4,000 cfs	62	59	-3 -4.8%	43	43	0 0.0%	32	32	0 0.0%	26	25	-1 -3.8%	18	18	0 0.0%
> 6,000 cfs	49	48	-1 -2.0%	34	31	-3 -8.8%	26	24	-2 -7.7%	18	18	0 0.0%	10	10	0 0.0%
> 8,000 cfs	47	44	-3 -6.4%	29	26	-3 -10.3%	22	22	0 0.0%	16	15	-1 -6.3%	5	5	0 0.0%
> 10,000 cfs	45	44	-1 -2.2%	28	26	-2 -7.1%	22	22	0 0.0%	11	11	0 0.0%	4	3	-1 -25.0%

Number of years that contain events with consecutive days of spills (max 7 day gap to count as new event)	Count of Years That Exceed Fremont Weir Flow Magnitude Thresholds Between 1922 and 2003, Alternative 1B														
	> 0 days			>10 days			> 20 days			> 30 days			> 45 days		
	No Action	Alternative 1B	Difference	No Action	Alternative 1B	Difference	No Action	Alternative 1B	Difference	No Action	Alternative 1B	Difference	No Action	Alternative 1B	Difference
> 0 cfs	81	81	0 0.0%	77	77	0 0.0%	74	74	0 0.0%	70	70	0 0.0%	55	55	0 0.0%
> 1,000 cfs	71	71	0 0.0%	55	51	-4 -7.3%	45	45	0 0.0%	39	39	0 0.0%	33	34	1 3.0%
> 2,000 cfs	70	68	-2 -2.9%	49	48	-1 -2.0%	41	41	0 0.0%	34	34	0 0.0%	26	26	0 0.0%
> 3,000 cfs	64	63	-1 -1.6%	47	46	-1 -2.1%	36	34	-2 -5.6%	30	29	-1 -3.3%	22	21	-1 -4.5%
> 4,000 cfs	62	58	-4 -6.5%	43	43	0 0.0%	32	32	0 0.0%	26	25	-1 -3.8%	18	18	0 0.0%
> 6,000 cfs	49	48	-1 -2.0%	34	31	-3 -8.8%	26	24	-2 -7.7%	18	18	0 0.0%	10	10	0 0.0%
> 8,000 cfs	47	44	-3 -6.4%	29	26	-3 -10.3%	22	22	0 0.0%	16	15	-1 -6.3%	5	5	0 0.0%
> 10,000 cfs	45	44	-1 -2.2%	28	26	-2 -7.1%	22	22	0 0.0%	11	11	0 0.0%	4	3	-1 -25.0%

Number of years that contain events with consecutive days of spills (max 7 day gap to count as new event)	Count of Years That Exceed Fremont Weir Flow Magnitude Thresholds Between 1922 and 2003, Alternative 2														
	> 0 days			>10 days			> 20 days			> 30 days			> 45 days		
	No Action	Alternative 2	Difference	No Action	Alternative 2	Difference	No Action	Alternative 2	Difference	No Action	Alternative 2	Difference	No Action	Alternative 2	Difference
> 0 cfs	81	81	0 0.0%	77	77	0 0.0%	74	74	0 0.0%	70	70	0 0.0%	55	54	-1 -1.8%
> 1,000 cfs	71	71	0 0.0%	55	51	-4 -7.3%	45	45	0 0.0%	39	39	0 0.0%	33	33	0 0.0%
> 2,000 cfs	70	68	-2 -2.9%	49	48	-1 -2.0%	41	41	0 0.0%	34	34	0 0.0%	26	26	0 0.0%
> 3,000 cfs	64	63	-1 -1.6%	47	46	-1 -2.1%	36	34	-2 -5.6%	30	29	-1 -3.3%	22	21	-1 -4.5%
> 4,000 cfs	62	59	-3 -4.8%	43	43	0 0.0%	32	32	0 0.0%	26	25	-1 -3.8%	18	18	0 0.0%
> 6,000 cfs	49	48	-1 -2.0%	34	31	-3 -8.8%	26	24	-2 -7.7%	18	18	0 0.0%	10	10	0 0.0%
> 8,000 cfs	47	44	-3 -6.4%	29	26	-3 -10.3%	22	22	0 0.0%	16	15	-1 -6.3%	5	5	0 0.0%
> 10,000 cfs	45	44	-1 -2.2%	28	26	-2 -7.1%	22	22	0 0.0%	11	11	0 0.0%	4	3	-1 -25.0%

Number of years that contain events with consecutive days of spills (max 7 day gap to count as new event)	Count of Years That Exceed Fremont Weir Flow Magnitude Thresholds Between 1922 and 2003, Alternative 3														
	> 0 days			>10 days			> 20 days			> 30 days			> 45 days		
	No Action	Alternative 3	Difference	No Action	Alternative 3	Difference	No Action	Alternative 3	Difference	No Action	Alternative 3	Difference	No Action	Alternative 3	Difference
> 0 cfs	81	81	0 0.0%	77	77	0 0.0%	74	74	0 0.0%	70	70	0 0.0%	55	55	0 0.0%
> 1,000 cfs	71	71	0 0.0%	55	51	-4 -7.3%	45	45	0 0.0%	39	39	0 0.0%	33	34	1 3.0%
> 2,000 cfs	70	68	-2 -2.9%	49	48	-1 -2.0%	41	41	0 0.0%	34	35	1 2.9%	26	27	1 3.8%
> 3,000 cfs	64	63	-1 -1.6%	47	46	-1 -2.1%	36	34	-2 -5.6%	30	29	-1 -3.3%	22	21	-1 -4.5%
> 4,000 cfs	62	58	-4 -6.5%	43	44	1 2.3%	32	32	0 0.0%	26	25	-1 -3.8%	18	18	0 0.0%
> 6,000 cfs	49	48	-1 -2.0%	34	31	-3 -8.8%	26	23	-3 -11.5%	18	18	0 0.0%	10	9	-1 -10.0%
> 8,000 cfs	47	44	-3 -6.4%	29	27	-2 -6.9%	22	22	0 0.0%	16	15	-1 -6.3%	5	5	0 0.0%
> 10,000 cfs	45	44	-1 -2.2%	28	26	-2 -7.1%	22	22	0 0.0%	11	11	0 0.0%	4	3	-1 -25.0%