# Appendix 11M Inundated Floodplain and Side-Channel Habitat Analysis, including Yolo and Sutter Bypasses

## Appendix 11M Inundated Floodplain and Side-Channel Habitat Analysis, including Yolo and Sutter Bypasses

#### 11M.1 Introduction

This appendix includes methods and results for quantifying inundated floodplain habitat in the Yolo and Sutter bypasses and inundated side-channel habitat in the Sacramento River for the No Action Alternative (NAA) and Alternatives 1, 2, and 3. Inundated floodplain habitat is created by flows that spill from the Sacramento River into the Yolo Bypass at the Fremont and Sacramento Weirs and into the Sutter Bypass at Ord Ferry and at the Moulton, Colusa, and Tisdale Weirs. Inundated side-channel habitat is created by high flows in the Sacramento River that flood side channels along the main river channel. In addition to estimating acreage of suitable habitat available under the NAA and Alternatives 1, 2, and 3, this appendix provides an analysis of the frequency, duration, and flow of weir spills into the Yolo and Sutter Bypasses. Inundated floodplain and side-channel habitat habitats are important for early life stages of several fish species in the Sacramento River and its tributaries, especially Chinook salmon (Oncorhynchus tshawytscha), steelhead (Oncorhynchus mykiss irideus), and Sacramento splittail (Pogonichthys macrolepidotus). Juvenile Chinook salmon and steelhead use inundated habitat for juvenile rearing, and Sacramento splittail use it for spawning and for larval and juvenile rearing. The analysis of weir spills provides information on the possibility of fish entering the bypasses via weir spills, which is an important avenue by which juvenile salmonid access the bypasses (Acierto et al. 2014). Because of their regulatory importance and their heavy reliance on inundated off-channel habitat, this appendix focuses on the three species listed above.

#### 11M.2 Methods

#### 11M.2.1 Bypass and Side-Channel Inundated Habitat Area

This analysis examines the surface area of suitable inundated floodplain and side-channel habitat that would be available under the NAA and Alternatives 1, 2, and 3. Inundated habitat with depths up to 1 meter, which correspond to optimal depths for rearing salmonids and steelhead in the Sacramento River drainage, was considered suitable for rearing salmonids and Sacramento splittail (Aceituno 1993; Hampton 1997; Sommer et al. 2002; U.S. Fish and Wildlife Service 2005; Merced Irrigation District 2013; Whipple et al. 2019). Note that splittail also spawn on inundated floodplains and side channels with depths from about 0.5 meter to 2 meters (Moyle 2002:149; Merced Irrigation District 2013). Flow velocity was not explicitly modeled because

previous modeling showed that almost all inundated habitat in the bypasses has flows less than 1.5 feet per second (Attachment 1), which is optimal for rearing salmonids and splittail (U.S. Fish and Wildlife Service 2005; Merced Irrigation District 2013; Whipple et al. 2019).

Daily estimates of the surface area of suitable inundated habitat were generated from HEC-RAS model runs using daily flow data (Upper Sacramento River Daily Operations Model [USRDOM]) for the NAA and Alternatives 1, 2, and 3. Yolo Bypass habitat area was estimated from flow spills at the Fremont and Sacramento Weirs, plus monthly westside stream flows disaggregated into daily flows using the historical flow patterns. Sutter Bypass habitat area was estimated using flows entering the Sutter Bypass from the Sacramento River at Ord Ferry and the Moulton, Colusa, and Tisdale Weirs. Inundated side-channel habitat was estimated for three reaches of the upper Sacramento River: Reach 1 – Bend Bridge to Hamilton City; Reach 2 – Hamilton City to Colusa; and Reach 3 – Colusa to Knights Landing. The Reach 1 flow was computed as the flow at Bend Bridge minus the diversion flows at Red Bluff and Hamilton City. The Reach 2 and Reach 3 flows are the flows at Hamilton City and Colusa, respectively. Flow versus habitat area curves were developed from the HEC-RAS modeling results (Figure 11M-1 through Figure 11M-5). The HEC-RAS modeling of habitat inundation area uses steady statelike flow conditions lasting 8 days or more. As a result, daily inundation areas were calculated based on the 8-day running averages of flow throughout the 82-year simulated flow data record, excluding the first 8 days. Note that suitable habitat plateaus in the Yolo Bypass at flows between about 4,000 cubic feet per second (cfs) and 11,000 cfs and in the Sutter Bypass at flows between 1,000 cfs and 3,000 cfs. Higher flows reduce the acreage of suitable habitat as the area of inundation with depth less than 1 meter declines. Note also that HEC-RAS model was focused on high flow conditions to evaluate flow over Fremont Weir and was not tailored to low-flow conditions.

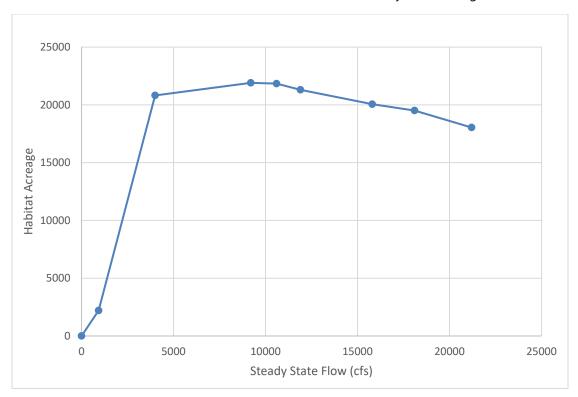


Figure 11M-1. Yolo Bypass Suitable (<1 Meter Deep) Habitat Acreage versus Total Bypass Flow.

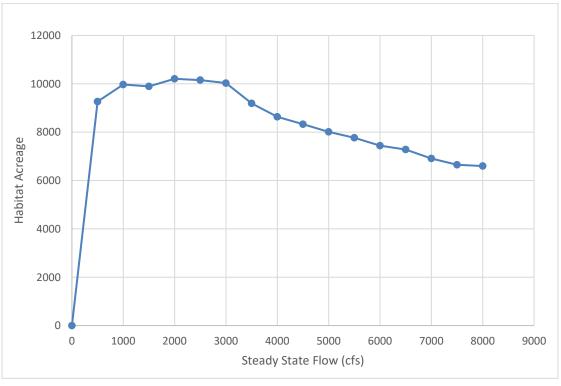


Figure 11M-2. Sutter Bypass Suitable (< 1 Meter Deep) Habitat Acreage versus Total Bypass Flow.

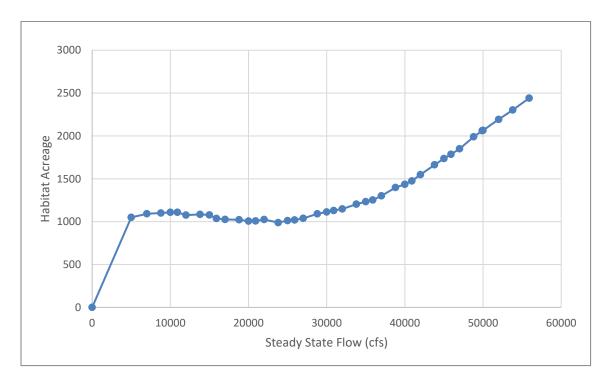


Figure 11M-3. Sacramento River Reach 1 (Bend Bridge to Hamilton City) Side-Channel Suitable (< 1 Meter Deep) Habitat Acreage versus Bend Bridge Flow (minus Red Bluff and Hamilton City Diversions).

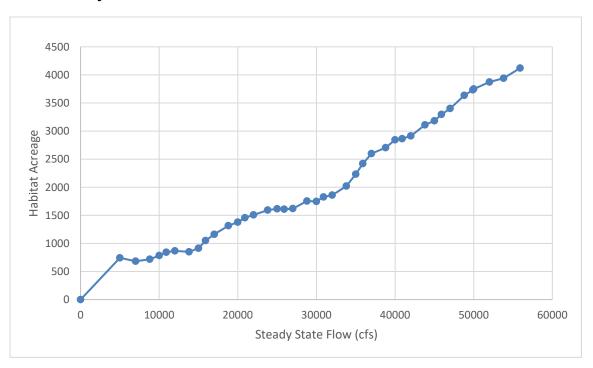


Figure 11M-4. Sacramento River Reach 2 (Hamilton City to Colusa) Side-Channel Suitable (< 1 Meter Deep) Habitat Acreage versus Hamilton City Flow.

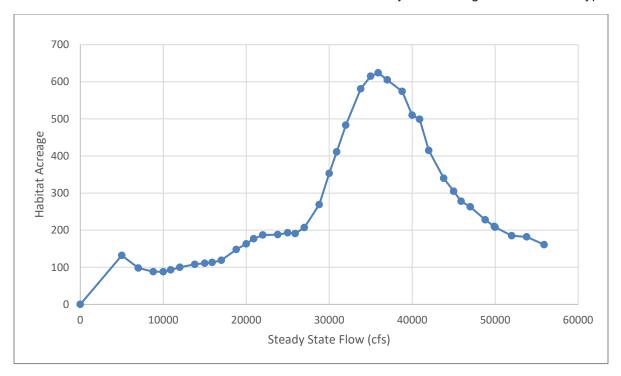


Figure 11M-5. Sacramento River Reach 3 (Colusa to Knights Landing) Side-Channel Suitable (< 1 Meter Deep) Habitat Acreage versus Colusa Flow.

In addition to the estimates of daily habitat acreage, frequencies of inundation events of different acreages and durations were estimated for the NAA and Alternatives 1, 2, and 3. For durations, the events were grouped into ranges: 8–17 days; 18–24 days; and over 24 days. For acreages, the events were grouped into different ranges for the three different regions (Yolo Bypass, Sutter Bypass, and Sacramento River side channels) analyzed, with the Yolo Bypass having categories with the largest acreages and the Sacramento River having categories with the smallest acreages.

#### 11M.2.2 Bypass Flow and Weir Spill

As discussed in the introduction, most juvenile salmonids likely enter the bypasses via weir spills (Acierto et al. 2014). The frequency, duration, and volume of the spills characterize the frequency and size of juvenile salmonid movements into the bypasses via the weir spills. Note, however, that the total flow in the bypass is not always a good indicator of suitable habitat availability, as shown in Figures 11M-1 and 11M-2.

#### 11M.2.2.1. Yolo Bypass

The number of years in the 82-year simulation period with at least one Fremont Weir spill event of varying sizes (0; 2,000; 4,000; 6,000; 8,000; and 10,000 cfs) with a duration of 0–10 days, 11–20 days, 21–30 days, 31–45 days, and over 45 days are calculated from the daily flow results. This analysis was limited to the October through April period in which juvenile salmonids and spawning splittail could be present in the Yolo Bypass.

Daily total Yolo Bypass flow results used in the current analysis were estimated using the daily CALSIM II outputs of flow spills at Fremont and Sacramento Weirs, and monthly west-side stream flows disaggregated into daily flows using the historical flow patterns.

Daily Fremont Weir spill output from CalSim II was used in this analysis. Daily outputs from CalSim II were based on a monthly-to-daily flow mapping technique applied in the model for a better representation of flows and spills along the Sacramento River between Red Bluff and Freeport. More information regarding CalSim II's incorporation of daily variability is included in Appendix 5A7, *Daily Pattern Development for the Estimation of Daily Flows and Weir Spills in CalSim II*.

#### 11M.2.2.2. Sutter Bypass

Similar to the methodology used for the Yolo Bypass, modeled daily spill into the Sutter Bypass from the Sacramento River at Ord Ferry and the Moulton, Colusa, and Tisdale Weirs was used to examine the frequency, duration, and flow of total spill into the Sutter Bypass that could provide rearing habitat for salmonids and splittail. Spill (flow) at Ord Ferry, Moulton Weir, and Colusa Weir were combined to assess potential changes in the northern portion of the Sutter Bypass; total spill at Ord Ferry and the Moulton, Colusa, and Tisdale Weirs was combined to assess potential impacts in the central portion of the bypass; and total flow through the bypass was used as an indicator of potential changes in floodplain habitat in the southern portion of the bypass. The number of years where there is at least one event of spill over the weirs into the Sutter Bypass of varying amounts (0; 2,000; 4,000; 6,000; 8,000; and 10,000 cfs) with a duration of 0–10 days, 11–20 days, 21–30 days, 31–45 days, and greater than 45 days was calculated from the daily results. This analysis was limited to the October through April period in which juvenile salmonids are anticipated to enter the Sutter Bypass.

#### 11M.3 Results

### **11M.3.1** Yolo Bypass Weir Spill Events and Inundated Floodplain Habitat Area Results for Yolo Bypass Fremont Weir spill events are provided in Attachment 2, Table 1. The results suggest that Alternatives 1, 2, and 3 would have fewer days of Fremont Weir spill than

results suggest that Alternatives 1, 2, and 3 would have fewer days of Fremont Weir spill than the NAA, especially for the shorter duration flows (less than 20 days). Opportunities for juvenile salmonids to enter the Yolo Bypass for rearing are therefore somewhat reduced under Alternatives 1, 2, and 3 relative to the NAA.

Takata et al. (2017) examined various juvenile Chinook salmon biological responses to Yolo Bypass flooding, which they defined as the number of days from January through June with daily mean flows at the downstream end of Yolo Bypass greater than 4,000 cfs; this is the flow at which floodplain inundation occurs. Takata et al. (2017) found that growth and floodplain residence of coded-wire-tagged juvenile Chinook salmon and catch per unit effort of wild juvenile Chinook salmon are significantly positively related to the annual duration of Yolo Bypass flooding (Takata et al. 2017: Figures 3 and 4c). Daily-downscaled CALSIM modeling suggests that operations under Alternatives 1, 2, and 3 may reduce Yolo Bypass inundation from January through June by approximately 1 day across most water year types (Table 11M-1). Given the variability in the observed biological relationships indicated by the spread in the data

(Takata et al. 2017: Figures 3 and 4c), and no significant difference in survival to capture in ocean fisheries between coded-wire-tagged juvenile Chinook salmon released in the Yolo Bypass and those released at the same time in the Sacramento River (Takata et al. 2017), the small differences in Yolo Bypass inundation indicated by the CALSIM modeling suggest that Alternatives 1, 2, and 3 are limited in their potential for negative effects on juvenile Chinook salmon, including winter-run.

Table 11M-1. Mean Annual Number of Days in January–June With Yolo Bypass Floodplain Inundation by Alternative and Water Year Type.

Water Year Type	NAA	Alt 1A	Alt 1B	Alt 2	Alt 3
Wet	71	70 (-2%)	70 (-2%)	70 (-2%)	70 (-2%)
Above Normal	52	51 (-2%)	51 (-2%)	51 (-2%)	52 (-1%)
Below Normal	19	18 (-4%)	18 (-4%)	18 (-4%)	18 (-4%)
Dry	8	7 (-7%)	7 (-7%)	7 (-7%)	7 (-7%)
Critically Dry	4	4 (-2%)	4 (-2%)	4 (-2%)	4 (-2%)

Note: Percentage values in parentheses indicate differences of alternatives compared to NAA. Floodplain inundation is Yolo Bypass flow >4,000 cfs per Takata et al. (2017).

The modeling results of Yolo Bypass inundated suitable habitat show considerable increases in mean daily habitat acreage under Alternatives 1, 2, and 3 relative to the NAA during August through October (Table 11M-2). Note, however, that these increases may be overestimated because the HEC-RAS model used for the inundation evaluation was focused on high flow conditions to evaluate flow over Fremont Weir and was not tailored to summer, low-flow conditions. These increases are the result of planned agricultural flow releases from Sites Reservoir. The releases reach the Yolo Bypass via the CBD, entirely bypassing the Sacramento River. For this reason and because of the months in which they occur, these summer–fall increases in habitat acreage have no effect on most of the fish species of management concern that use the Yolo Bypass for spawning and rearing habitat in the winter and spring. Note that for convenience in locating results of the Alternatives 1, 2, and 3 with the largest differences from the NAA, results with >5% increases or reductions in habitat area are flagged with green or red highlighting, respectively. This convention is used in all the results tables below (Table 11M-2 through Table 11M-5).

For January through July, the model results range from no change to moderate reductions in Yolo Bypass mean daily habitat acreage under Alternatives 1, 2, and 3 (Table 11M-2). The results for November and December range from moderate reductions to moderate increases in habitat. Note that while the increases during late summer and fall are, on a percentage basis, consistently much larger than the reductions in winter, spring, and early summer, in terms of absolute differences in acreage, some of the winter and spring reductions are larger than some of the summer and fall increases (Table 11M-2). For instance, the reductions in acreage from the NAA to Alternatives 1, 2, and 3 for March of Below Normal Water Years are larger than some of the summer and fall increases. The largest reductions under Alternatives 1, 2, and 3 occur for March of Below Normal and Dry Water Years and April of Below Normal Water Years, ranging from about 6% to 11% below the NAA acreages. In terms of mean daily acreage, the differences

range from 175 acres to 418 acres. The only other relatively large reductions are 17% (183 acres) and 13% (137 acres) reductions in November of Above Normal Water Years under Alternatives 2 and 3. The reductions in July are moderately large on a percentage basis but are small in terms of acreage, with all July reductions being less than 12 acres. Other mean daily acreage reductions in winter and spring are minor but numerous; they occur for most of the months and water year types under all Alternatives 1, 2, and 3 (Table 11M-2).

Table 11M-2. Estimated Mean Daily Inundated Habitat (Acres <1 Meter Deep) for Juvenile Salmonids in the Yolo Bypass and the Percent Differences (in parentheses) for the No Action Alternative (NAA) and Alternatives 1–3 (Alt 1A, Alt 1B, Alt 2, and Alt 3).

Month	Water Year Type	NAA	Alt 1A	Alt 1B	Alt 2	Alt 3
	Wet	14,250	14,169 (-0.6%)	14,169 (-0.6%)	14,189 (-0.4%)	14,172 (-0.5%)
	Above Normal	11,853	11,777 (-0.6%)	11,778 (-0.6%)	11,778 (-0.6%)	11,774 (-0.7%)
lam.cam.	Below Normal	6,202	6,078 (-2%)	6,084 (-1.9%)	6,082 (-1.9%)	6,089 (-1.8%)
January	Dry	1,758	17,16 (-2.4%)	1,707 (-2.9%)	1,716 (-2.4%)	1,725 (-1.9%)
	Critically Dry	1,533	1,500 (-2.1%)	1,500 (-2.1%)	1,500 (-2.2%)	1,500 (-2.1%)
	All	7,922	7,850 (-0.9%)	7,849 (-0.9%)	7,857 (-0.8%)	7,855 (-0.9%)
	Wet	17,195	17,182 (-0.1%)	17,183 (-0.1%)	17,181 (-0.1%)	17,176 (-0.1%)
	Above Normal	16,646	16,537 (-0.7%)	16,567 (-0.5%)	16,549 (-0.6%)	16,634 (-0.1%)
F. la marana	Below Normal	10,559	10,403 (-1.5%)	10,417 (-1.4%)	10,408 (-1.4%)	10,436 (-1.2%)
February	Dry	4,730	4,564 (-3.5%)	4,584 (-3.1%)	4,564 (-3.5%)	4,582 (-3.1%)
	Critically Dry	1,424	1,393 (-2.1%)	1,393 (-2.1%)	1,393 (-2.1%)	1,394 (-2.1%)
	All	10,930	10,843 (-0.8%)	10,854 (-0.7%)	10,845 (-0.8%)	10,865 (-0.6%)
	Wet	14,644	14,562 (-0.6%)	14,559 (-0.6%)	14,561 (-0.6%)	14,547 (-0.7%)
	Above Normal	12,983	12,750 (-1.8%)	12,771 (-1.6%)	12,751 (-1.8%)	12,767 (-1.7%)
Manala	Below Normal	5,387	4,968 (-7.8%)^	4,982 (-7.5%)^	4,972 (-7.7%)^	5,003 (-7.1%)^
March	Dry	3,906	3,631 (-7%)^	3,634 (-7%)^	3,634 (-7%)^	3,656 (-6.4%)^
	Critically Dry	1,362	1,306 (-4.2%)	1,305 (-4.2%)	1,305 (-4.2%)	1,308 (-4%)
	All	8,520	8,319 (-2.4%)	8,324 (-2.3%)	8,320 (-2.3%)	8,329 (-2.2%)
	Wet	11,327	11,173 (-1.4%)	11,164 (-1.4%)	11,185 (-1.3%)	11,158 (-1.5%)
	Above Normal	5,434	5,442 (0.2%)	5,442 (0.2%)	5,442 (0.2%)	5,442 (0.2%)
A .1	Below Normal	1,603	1,428 (-10.9%)^	1,428 (-10.9%)^	1,428 (-10.9%)^	1,428 (-10.9%)^
April	Dry	1,205	1,202 (-0.2%)	1,202 (-0.2%)	1,202 (-0.2%)	1,204 (-0.1%)
	Critically Dry	520	520 (0%)	520 (0%)	520 (0%)	520 (0%)
	All	5,001	4,923 (-1.6%)	4,920 (-1.6%)	4,927 (-1.5%)	4,918 (-1.7%)
May	Wet	2,776	2,647 (-4.6%)	2,643 (-4.8%)	2,647 (-4.6%)	2,611 (-5.9%)^

Month	Water Year Type	NAA	Alt 1A	Alt 1B	Alt 2	Alt 3
	Above Normal	1,548	1,543 (-0.3%)	1,543 (-0.3%)	1,543 (-0.3%)	1,543 (-0.3%)
	Below Normal	455	455 (0%)	455 (0%)	455 (0%)	455 (0%)
	Dry	267	267 (0%)	267 (0%)	267 (0%)	267 (0%)
	Critically Dry	168	168 (0%)	168 (0%)	168 (0%)	168 (0%)
	All	1,267	1,226 (-3.3%)	1,225 (-3.4%)	1,226 (-3.3%)	1,215 (-4.2%)
	Wet	856	827 (-3.3%)	827 (-3.3%)	827 (-3.3%)	828 (-3.3%)
	Above Normal	166	166 (0%)	166 (0%)	166 (0%)	166 (0%)
l	Below Normal	160	160 (0%)	160 (0%)	160 (0%)	160 (0%)
June	Dry	164	164 (0%)	164 (0%)	164 (0%)	164 (0%)
	Critically Dry	155	155 (0%)	155 (0%)	155 (0%)	155 (0%)
	All	382	373 (-2.4%)	373 (-2.4%)	373 (-2.3%)	373 (-2.3%)
	Wet	121	110 (-9.8%)^	110 (-9.8%)^	110 (-9.8%)^	110 (-9.8%)^
	Above Normal	112	100 (-10.3%)^	100 (-10.1%)^	100 (-10.7%)^	101 (-9.5%)^
la de c	Below Normal	108	101 (-6.6%)^	101 (-6.3%)^	99 (-8.6%)^	101 (-6.3%)^
July	Dry	114	107 (-6.2%)	107 (-6.6%)	106 (-7.6%)	108 (-5.7%)
	Critically Dry	117	113 (-3.4%)	114 (-2.7%)	113 (-4.1%)	116 (-1.1%)
	All	116	107 (-7.6%)^	107 (-7.5%)^	106 (-8.4%)^	107 (-7%)^
	Wet	309	958 (210.3%)*	958 (210.2%)*	956 (209.8%)*	959 (210.6%)*
	Above Normal	195	800 (309.7%)*	792 (305.3%)*	835 (327.3%)*	750 (283.9%)*
A	Below Normal	253	679 (167.9%)*	680 (168.3%)*	799 (215.2%)*	679 (168%)*
August	Dry	142	546 (285.1%)*	583 (310.7%)*	636 (348.6%)*	517 (264.5%)*
	Critically Dry	127	348 (175.1%)*	298 (135.8%)*	399 (215.1%)*	196 (54.7%)*
	All	219	708 (222.5%)*	707 (222.3%)*	760 (246.3%)*	672 (206.2%)*
	Wet	204	957 (368.7%)*	941 (360.6%)*	1,020 (399.3%)*	924 (352.2%)*
	Above Normal	165	890 (439.7%)*	757 (358.7%)*	895 (442.6%)*	831 (403.9%)*
September	Below Normal	281	620 (120.3%)*	581 (106.5%)*	734 (160.8%)*	605 (115.2%)*
	Dry	161	610 (279.9%)*	540 (236%)*	568 (253.9%)*	416 (158.8%)*
	Critically Dry	181	322 (78.4%)*	345 (91.1%)*	283 (56.6%)*	261 (44.3%)*

Month	Water Year Type	NAA	Alt 1A	Alt 1B	Alt 2	Alt 3
	All	199	721 (262.9%)*	677 (241%)*	746 (275.5%)*	647 (225.9%)*
	Wet	375	889 (137%)*	794 (111.7%)*	848 (126.1%)*	792 (111.2%)*
	Above Normal	101	368 (262.6%)*	360 (255.2%)*	434 (327.9%)*	391 (284.9%)*
Ostalasıı	Below Normal	104	460 (341.6%)*	445 (326.7%)*	494 (374.4%)*	375 (259.6%)*
October	Dry	319	735 (130.9%)*	717 (125.2%)*	729 (128.9%)*	557 (75%)*
	Critically Dry	106	272 (157.3%)*	202 (91.1%)*	316 (198.9%)*	200 (89.2%)*
	All	237	616 (159.6%)*	568 (139.3%)*	624 (162.8%)*	524 (120.9%)*
	Wet	2,174	2,217 (2%)	2,241 (3.1%)	2,212 (1.8%)	2238 (3%)
	Above Normal	1,073	1,093 (1.8%)	1,104 (2.9%)	890 (-17.1%)^	936 (-12.8%)^
Navanalaan	Below Normal	111	141 (26.8%)*	145 (30.3%)*	142 (27.7%)*	135 (21.3%)*
November	Dry	614	641 (4.4%)	640 (4.4%)	640 (4.4%)	622 (1.3%)
	Critically Dry	54	65 (20.8%)*	72 (32.3%)*	70 (28.9%)*	59 (8.1%)*
	All	1,008	1,037 (2.9%)	1,048 (4%)	1,007 (-0.1%)	1,015 (0.7%)
	Wet	11,276	11,280 (0%)	11,293 (0.1%)	11,287 (0.1%)	11,389 (1%)
	Above Normal	3,571	3,553 (-0.5%)	3,552 (-0.5%)	3,538 (-0.9%)	3,508 (-1.8%)
Danamahan	Below Normal	1,801	1,780 (-1.2%)	1,781 (-1.1%)	1,780 (-1.2%)	1,783 (-1%)
December	Dry	1,607	1,610 (0.2%)	1,667 (3.8%)	1,617 (0.6%)	2,120 (31.9%)*
	Critically Dry	234	240 (2.4%)	241 (2.7%)	240 (2.3%)	240 (2.5%)
	All	4,792	4,789 (-0.1%)	4,806 (0.3%)	4,790 (0%)	4,929 (2.9%)

<sup>\*</sup> Results for which habitat acreage under Alternative 1, 2, or 3 is more than 5% below habitat acreage under the NAA are highlighted green.

<sup>^</sup> Results for which habitat acreage under Alternative 1, 2, or 3 is more than 10% higher than habitat acreage under the NAA are highlighted red.

The differences between the NAA and Alternatives 1, 2, and 3 in Yolo Bypass habitat availability were also examined by plotting probabilities of exceedance of all the daily habitat acreages for the months of January through April combined (Figure 11M-6). The exceedance curves show a consistent but small reduction in habitat acreages under Alternatives 1, 2, and 3 relative to the NAA from about the 40% to 20% exceedances. There are no appreciable differences between the NAA and Alternatives 1, 2, and 3 for the uppermost and lowermost acreages. Figure 11M-6 provides only a portion of the full exceedance plot (i.e., 2,000 acres to 20,000 acres) to make differences more visible.

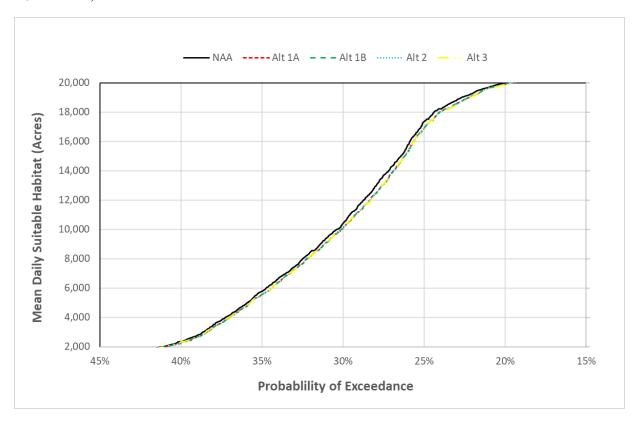


Figure 11M-6. Portions of Exceedance Curves for January through April Daily Yolo Bypass Suitable Habitat Acreage between for the No Action Alternative (NAA) and Alternatives 1–3 (Alt 1A, Alt 1B, Alt 2, and Alt 3).

A further analysis was carried out to examine the net effect of all the January through April changes between the NAA and Alternatives 1, 2, and 3 in daily habitat acreage. For this analysis, means were computed for all daily habitat acreages from January through April for all years (Table 11M-3). The average difference is a reduction of 107 acres, or about 1.3% of the NAA acreage.

Table 11M-3. Estimated Mean Daily January through April Inundated Habitat (Acres <1 Meter Deep) for Juvenile Salmonids in the Yolo Bypass and the Differences (in parentheses) for the No Action Alternative (NAA) and Alternatives 1–3 (Alt 1A, Alt 1B, Alt 2, and Alt 3).

NAA	Alt 1A	Alt 1A	Alt 1A	Alt 1A	
8,053	7,942 (-110)	7,945 (-107)	7,946 (-107)	7,950 (-103)	

It should be noted that the modeling results slightly overestimate some reductions in the winter and spring suitable habitat acreage between the NAA and Alternatives 1, 2, and 3. This occurs because 21,200 cfs is an upper boundary condition of the habitat model and all higher flows are assigned a constant habitat acreage value of 18,043 acres (see Figure 11M-1). However, flows greater than 21,200 cfs are generally somewhat higher under the NAA than Alternatives 1, 2, and 3 because of diversions by Alternatives 1, 2, and 3 to the Sites Reservoir (Figure 11M-7). Figure 11M-7 provides only a small portion of the full exceedance plot (i.e., 210,000 cfs to 340,000 cfs) to make differences more visible. Suitable inundated habitat on the Yolo Bypass declines with flow at flows above about 11,000 cfs (Figure 11M-1) and continues to do so at flows well above 21,200 cfs (Cordoleani et al. 2020: Appendix B). Therefore, habitat acreage at flows above 21,200 cfs, which the model sets at 18,043 acres for the NAA and Alternatives 1, 2, and 3, are actually larger for Alternatives 1, 2, and 3 than for the NAA, which means that the model slightly underestimates habitat acreage of Alternatives 1, 2, and 3 relative to the NAA for all means that include flows greater than 21,200 cfs.

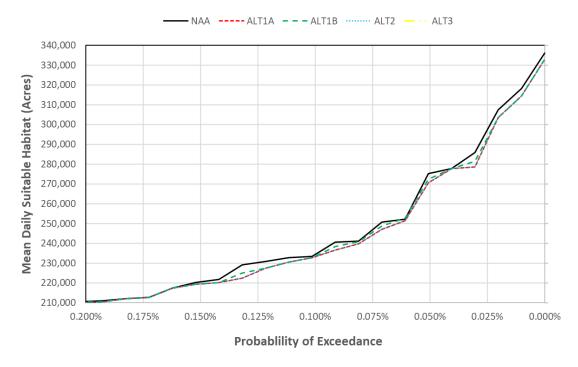


Figure 11M-7. Portions of Exceedance Curves for January through April Daily Yolo Bypass Flow for the No Action Alternative (NAA) and Alternatives 1–3 (Alt 1A, Alt 1B, Alt 2, and Alt 3).

The fish species of management concern most likely to be affected by the changes in Yolo Bypass inundated suitable habitat are Chinook salmon, steelhead, and Sacramento splittail. Recent studies have demonstrated that, when inundated by high flows in the winter and spring, the Yolo Bypass provides good rearing habitat for juvenile salmonids (Sommer et al. 2001b; Sommer et al. 2005; Hinkelman et al. 2017; Katz et al. 2017; Bellido-Leiva et al. 2021). Additionally, the Yolo Bypass is the most important spawning, nursery, and juvenile rearing habitat for Sacramento splittail (Sommer et al. 2001a, Sommer et al. 2002; Moyle et al. 2004; Feyrer et al. 2006a; Feyrer et al 2006b; Sommer et al. 2008). These species use the Yolo Bypass during the winter and spring, the natural period for seasonal floodplain inundation in the Sacramento River Basin. By late summer and fall, when Alternatives 1, 2, and 3 are expected to result in the largest percentage increases in Yolo Bypass suitable habitat (Table 11M-2), rearing salmonids and Sacramento splittail have emigrated from the bypass, except for those trapped in pools (Sommer et al. 2005). Most of the fish species remaining in the bypass after mid-summer are nonnative species, including black bass (Micropterus spp.) and striped bass (Morone saxatilis), which are fish species (or species groups) of management concern (Sommer et al. 2001a; Sommer et al. 2004).

Salmon and steelhead juveniles are most likely to enter the Yolo Bypass while rearing in and emigrating from the lower Sacramento River. California Department of Water Resources has a Rotary Screw Trap (RST) at Knights Landing that is 11 kilometers upstream of Fremont Weir and provides the most reliable information on when the juveniles are most likely to access the Yolo Bypass, assuming the Fremont Weir is spilling. Most of the catch of juvenile salmon and steelhead at Knights Landing occurs during October through May (Attachment 1 of Appendix 11A). Significant spilling of the Fremont Weir generally begins in November or December and may occur as late as May. One race or another of juvenile Chinook salmon or steelhead is likely to enter the Yolo Bypass during most of this period. Based on the Knights Landing RST data, the presence of the different races and species of juvenile salmon and steelhead near the Fremont Weir generally occurs as follows: winter-run from October through March, spring-run from December through April, fall-run from January through April, late fall-run from April through January, and steelhead from January through May. Once on the Yolo Bypass, the juveniles may remain for a month or more, depending on conditions (Sommer et al. 2005). On this basis, the March and April reductions in suitable habitat expected to result from Alternatives 1, 2, and 3 would potentially affect rearing juveniles of all four salmon races and steelhead. As noted above, the largest difference in mean acreages for March and April was 419 acres. The reductions in January and February are small but consistent, which could result in a cumulative effect (Table 11M-2). The exceedance curves also show small but consistent reductions under Alternatives 1, 2, and 3 (Figure 11M-6). However, when the net effect of all daily differences between the NAA and Alternatives 1, 2, and 3 are examined, the differences are small (Table 11M-3) and the effect on the Chinook salmon and steelhead populations is expected to be minor.

Of the three fish species of management concern, Sacramento splittail likely benefits most from inundated floodplain habitat (Sommer et al. 2001a, Feyrer et al. 2005). Adult splittail begin their upstream spawning migrations from the Delta during winter and spring and spawn on the Yolo Bypass from late winter to late spring in years when the bypass is inundated. Timing of spawning depends on the timing of inundation, but most often peaks during March (Feyrer et al. 2006a). Egg incubation and larval development require a few weeks to a month, depending on

water temperature (Moyle et al. 2004). The juveniles rear in the bypass for as long as conditions are suitable and typically return to the Delta from April through July (Feyrer et al. 2005),

Splittail benefit from Yolo Bypass inundation primarily during the spawning and rearing periods, which typically run from February through April or May. This period largely overlaps the timing of the greatest and most consistent habitat reductions associated with Alternatives 1, 2, and 3 (Table 11M-2). However, as noted above, the net effect of all daily differences between the NAA and Alternatives 1, 2, and 3 are small reductions in habitat acreage (Table 11M-3). Therefore, the habitat reductions are not expected to have a substantial negative effect on the Sacramento splittail population.

As noted in the Section 2, *Methods*, in addition to evaluating effects of Alternatives 1, 2, and 3 on mean daily habitat acreage, this report also examines effects of Alternatives 1, 2, and 3 on the frequency, duration and acreage of inundation events. This analysis is important because the value of inundated habitat varies with its duration and total acreage, and the value may be species-specific. For instance, the productivity of inundated floodplain habitat for juvenile salmonids is maximized after about 18 days of inundation and begins to diminish by about 24 days (Whipple et al. 2019). In contrast, Sacramento splittail require at least 30 days of inundation for completion of spawning, egg incubation, and larval development, after which the juveniles are large and strong enough to emigrate more safely from the floodplain (Feyrer et al. 2006a).

The results of the frequency analysis of inundation of events for the Yolo Bypass generally show only minor difference between Alternatives 1, 2, and 3 and the NAA (Figure 11M-8). However, there are moderate increases in frequency for Alternatives 1, 2, and 3 compared to the NAA for events of 2,500 to 15,000 acres lasting 8 to 17 days, with frequencies ranging from once per 1.8 years for Alternative 1B to once per 2.2 years for the NAA. There are minor reductions for Alternatives 1, 2, and 3 for the same acreage range lasting 18–24 days, with frequencies ranging from once per 17 years for the NAA to once per 25 years for Alternatives 1B and 3. There are also minor increases in frequency for events greater than 20,000 acres lasting 18-24 days for all Alternatives 1, 2, and 3 except Alternative 3. Note that the greater frequency of the large acreage inundation events under Alternatives 1, 2, and 3 likely results from the moderately lower frequency of high flows under Alternatives 1, 2, and 3 because of diversions to Sites Reservoir and the fact that suitable inundated habitat declines with flow at flows above about 11,000 cfs (Figure 11M-1). The differences in frequencies of inundation events of varying duration and acreage show no consistent differences between the NAA and Alternatives 1, 2, and 3. Tables providing the results plotted in Figure 11M-8 and frequency of inundation tables for every month are provided in Attachment 3.

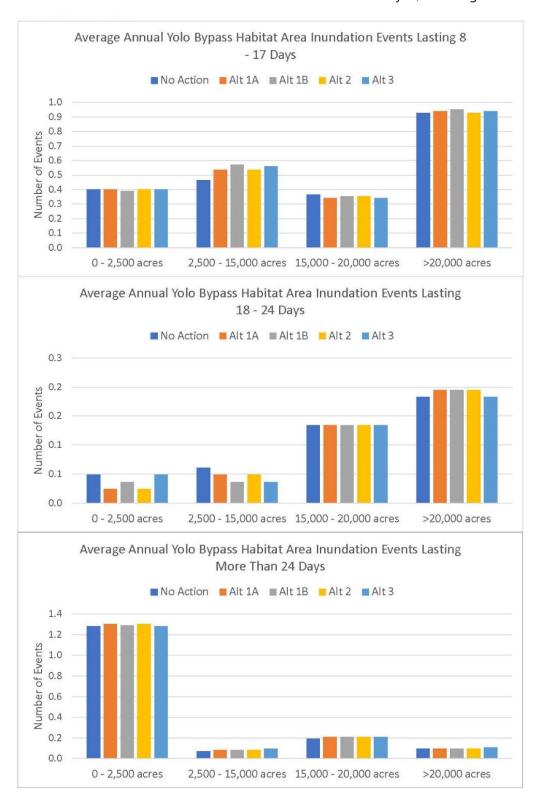


Figure 11M-8. Average Annual Number of Yolo Bypass Inundation Events with Three Different Ranges of Duration and Four Ranges of Suitable Habitat Acreages for the No Action Alternative (NAA) and Alternatives 1–3 (Alt 1A, Alt 1B, Alt 2, and Alt 3).

### 11M.3.2 Sutter Bypass Weir Spill Events and Inundated Floodplain Habitat Area

Results for the Sutter Bypass weir spill events are provided in Attachment 4, Tables 1 through 4. The results suggest that there would be several fewer weir spill events into the Sutter Bypass under Alternatives 1, 2, and 3 than the NAA, especially for spills lasting more than 45 days. This result indicates that opportunities for juvenile salmonids to enter the Sutter Bypass for rearing would be lower under Alternatives 1, 2, and 3 relative to the NAA. Note that flow in the Sutter Bypass greater than 3,000 cfs results in reduction of suitable habitat.

The Sutter Bypass when inundated, as discussed for the Yolo Bypass, provides important rearing habitat for juvenile Chinook salmon and steelhead and spawning and rearing habitat for Sacramento splittail (Moyle 2004; Feyrer et al. 2006b; Cordoleani et al. 2020; Bellido-Leiva et al. 2021). For the Sutter Bypass, however, the modeling results indicate that Alternatives 1, 2, and 3 would produce very little change in mean daily suitable habitat compared to the NAA (Table 11M-4). The largest differences are an increase of 54 acres for April of Wet Water Years under Alternative 3 and a reduction 58 acres for December of Dry Water Years under Alternative 3. Both differences are less than 1%. The results of the frequency analysis of inundation of events similarly show little to no differences between the NAA and Alternatives 1, 2, and 3 (Figure 11M-9). Tables providing the results plotted in Figure 11M-9 and frequency of inundation tables for every month are provided in Attachment 5. Alternatives 1, 2, and 3 are expected to have little effect on availability of suitable inundated fish habitat in the Sutter Bypass.

Table 11M-4. Estimated Mean Daily Inundated Habitat (Acres <1 Meter Deep) for Juvenile Salmonids in the Sutter Bypass and the Percent Differences (in parentheses) for the No Action Alternative (NAA) and Alternatives 1–3 (Alt 1A, Alt 1B, Alt 2, and Alt 3).

Month	Water Year Type	NAA	Alt 1A	Alt 1B	Alt 2	Alt 3
	Wet	7,992	8,003 (0.1%)	8,005 (0.2%)	8,002 (0.1%)	8,006 (0.2%)
	Above Normal	7,966	7,999 (0.4%)	7,998 (0.4%)	7,998 (0.4%)	7,999 (0.4%)
law.com.	Below Normal	8,354	8,363 (0.1%)	8,362 (0.1%)	8,363 (0.1%)	8,361 (0.1%)
January	Dry	8,308	8,313 (0.1%)	8,310 (0%)	8,313 (0.1%)	8,310 (0%)
	Critically Dry	7,687	7,691 (0%)	7,691 (0%)	7,691 (0%)	7,691 (0%)
	All	8,075	8,086 (0.1%)	8,086 (0.1%)	8,086 (0.1%)	8,086 (0.1%)
	Wet	7,580	7,607 (0.4%)	7,604 (0.3%)	7,606 (0.3%)	7,604 (0.3%)
	Above Normal	7,891	7,936 (0.6%)	7,943 (0.6%)	7,936 (0.6%)	7,910 (0.2%)
Falam.com.	Below Normal	8,715	8,734 (0.2%)	8,722 (0.1%)	8,734 (0.2%)	8,723 (0.1%)
February	Dry	8,726	8,744 (0.2%)	8,745 (0.2%)	8,744 (0.2%)	8,746 (0.2%)
	Critically Dry	8,537	8,541 (0%)	8,540 (0%)	8,541 (0%)	8,541 (0%)
	All	8,212	8,235 (0.3%)	8,233 (0.3%)	8,234 (0.3%)	8,228 (0.2%)
	Wet	7,988	8,009 (0.3%)	8,011 (0.3%)	8,002 (0.2%)	8,020 (0.4%)
March	Above Normal	8,266	8,304 (0.5%)	8,304 (0.4%)	8,303 (0.4%)	8,312 (0.5%)
	Below Normal	9,095	9,137 (0.5%)	9,137 (0.5%)	9,140 (0.5%)	9,141 (0.5%)

Month	Water Year Type	NAA	Alt 1A	Alt 1B	Alt 2	Alt 3
	Dry	9,186	9,205 (0.2%)	9,206 (0.2%)	9,204 (0.2%)	9,201 (0.2%)
	Critically Dry	9,041	9,045 (0%)	9,045 (0%)	9,045 (0%)	9,045 (0%)
	All	8,635	8,659 (0.3%)	8,660 (0.3%)	8,657 (0.3%)	8,663 (0.3%)
	Wet	8,243	8,280 (0.4%)	8,288 (0.5%)	8,272 (0.4%)	8,298 (0.7%)
	Above Normal	9,125	9,128 (0%)	9,125 (0%)	9,128 (0%)	9,126 (0%)
٨ ١١	Below Normal	9,508	9,517 (0.1%)	9,517 (0.1%)	9,517 (0.1%)	9,517 (0.1%)
April	Dry	9,451	9,455 (0%)	9,454 (0%)	9,455 (0%)	9,455 (0%)
	Critically Dry	8,791	8,791 (0%)	8,791 (0%)	8,791 (0%)	8,791 (0%)
	All	8,934	8,948 (0.2%)	8,950 (0.2%)	8,945 (0.1%)	8,953 (0.2%)
	Wet	9,203	9,208 (0.1%)	9,210 (0.1%)	9,208 (0.1%)	9,211 (0.1%)
	Above Normal	9,483	9,483 (0%)	9,483 (0%)	9,483 (0%)	9,483 (0%)
Maria	Below Normal	9,381	9,377 (0%)	9,376 (-0.1%)	9,377 (0%)	9,373 (-0.1%)
May	Dry	9,018	9,018 (0%)	9,018 (0%)	9,018 (0%)	9,018 (0%)
	Critically Dry	8,166	8,166 (0%)	8,166 (0%)	8,166 (0%)	8,166 (0%)
	All	9,082	9,083 (0%)	9,084 (0%)	9,083 (0%)	9,083 (0%)
	Wet	9,273	9,274 (0%)	9,274 (0%)	9,274 (0%)	9,274 (0%)
	Above Normal	8,876	8,876 (0%)	8,876 (0%)	8,876 (0%)	8,876 (0%)
I	Below Normal	8,358	8,358 (0%)	8,358 (0%)	8,358 (0%)	8,358 (0%)
June	Dry	7,755	7,755 (0%)	7,755 (0%)	7,755 (0%)	7,755 (0%)
	Critically Dry	6,736	6,736 (0%)	6,736 (0%)	6,736 (0%)	6,736 (0%)
	All	8,354	8,355 (0%)	8,355 (0%)	8,355 (0%)	8,355 (0%)
	Wet	8,213	8,213 (0%)	8,213 (0%)	8,213 (0%)	8,213 (0%)
	Above Normal	7,349	7,349 (0%)	7,349 (0%)	7,349 (0%)	7,349 (0%)
lide	Below Normal	6,271	6,271 (0%)	6,271 (0%)	6,271 (0%)	6,271 (0%)
July	Dry	5,254	5,254 (0%)	5,254 (0%)	5,254 (0%)	5,254 (0%)
	Critically Dry	4,118	4,118 (0%)	4,118 (0%)	4,118 (0%)	4,118 (0%)
	All	6,506	6,506 (0%)	6,506 (0%)	6,506 (0%)	6,506 (0%)
	Wet	7,187	7,187 (0%)	7,187 (0%)	7,187 (0%)	7,187 (0%)
	Above Normal	5,963	5,963 (0%)	5,963 (0%)	5,963 (0%)	5,963 (0%)
August	Below Normal	4,257	4,257 (0%)	4,257 (0%)	4,257 (0%)	4,257 (0%)
August	Dry	3,204	3,204 (0%)	3,204 (0%)	3,204 (0%)	3,204 (0%)
	Critically Dry	2,447	2,447 (0%)	2,447 (0%)	2,447 (0%)	2,447 (0%)
	All	4,940	4,940 (0%)	4,940 (0%)	4,940 (0%)	4,940 (0%)
	Wet	6,644	6,644 (0%)	6,644 (0%)	6,644 (0%)	6,644 (0%)
	Above Normal	5,612	5,612 (0%)	5,612 (0%)	5,612 (0%)	5,612 (0%)
Contombor	Below Normal	3,682	3,682 (0%)	3,682 (0%)	3,682 (0%)	3,682 (0%)
September	Dry	3,385	3,385 (0%)	3,385 (0%)	3,385 (0%)	3,385 (0%)
	Critically Dry	2,346	2,346 (0%)	2,346 (0%)	2,346 (0%)	2,346 (0%)
	All	4,643	4,643 (0%)	4,643 (0%)	4,643 (0%)	4,643 (0%)

Month	Water Year Type	NAA	Alt 1A	Alt 1B	Alt 2	Alt 3
	Wet	6,451	6,451 (0%)	6,451 (0%)	6,451 (0%)	6,450 (0%)
	Above Normal	5,699	5,699 (0%)	5,699 (0%)	5,699 (0%)	5,699 (0%)
October	Below Normal	5,069	5,069 (0%)	5,069 (0%)	5,069 (0%)	5,069 (0%)
October	Dry	5,391	5,391 (0%)	5,391 (0%)	5,391 (0%)	5,391 (0%)
	Critically Dry	4,959	4,959 (0%)	4,959 (0%)	4,959 (0%)	4,959 (0%)
	All	5,654	5,654 (0%)	5,653 (0%)	5,653 (0%)	5,653 (0%)
	Wet	7,809	7,809 (0%)	7,809 (0%)	7,809 (0%)	7,809 (0%)
	Above Normal	7,640	7,640 (0%)	7,639 (0%)	7,640 (0%)	7,639 (0%)
November	Below Normal	7,168	7,168 (0%)	7,168 (0%)	7,168 (0%)	7,168 (0%)
November	Dry	7,097	7,098 (0%)	7,098 (0%)	7,098 (0%)	7,098 (0%)
	Critically Dry	5,850	5,850 (0%)	5,850 (0%)	5,850 (0%)	5,850 (0%)
	All	7,232	7,232 (0%)	7,232 (0%)	7,232 (0%)	7,232 (0%)
	Wet	8,193	8,200 (0.1%)	8,212 (0.2%)	8,200 (0.1%)	8,206 (0.2%)
	Above Normal	8,027	8,038 (0.1%)	8,037 (0.1%)	8,037 (0.1%)	8,039 (0.1%)
December	Below Normal	7,698	7,701 (0%)	7,700 (0%)	7,701 (0%)	7,700 (0%)
December	Dry	8,045	8,048 (0%)	8,028 (-0.2%)	8,048 (0%)	7,987 (-0.7%)
	Critically Dry	6,900	6,900 (0%)	6,900 (0%)	6,900 (0%)	6,900 (0%)
	All	7,862	7,868 (0.1%)	7,867 (0.1%)	7,867 (0.1%)	7,856 (-0.1%)

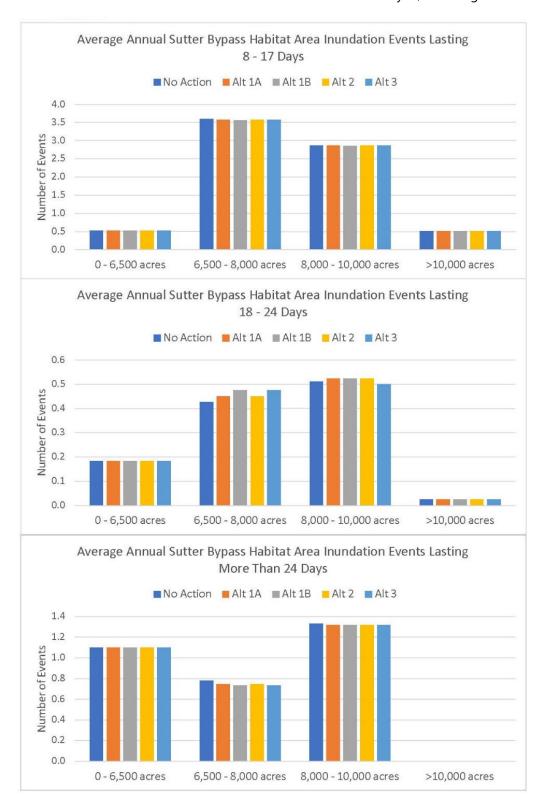


Figure 11M-9. Average Annual Number of Sutter Bypass Inundation Events with Three Different Ranges of Duration and Four Ranges of Suitable Habitat Acreages for the No Action Alternative (NAA) and Alternatives 1–3 (Alt 1A, Alt 1B, Alt 2, and Alt 3).

#### 11M.3.3 Sacramento River Side-Channel Habitat Area

Like the floodplain habitat of the Yolo and Sutter Bypasses, inundated side-channel habitat in the Sacramento River provides important habitat for several fish species, including Chinook salmon, steelhead, and Sacramento splittail. Juvenile salmon and steelhead use inundated side-channel habitat for rearing and Sacramento splittail use it for spawning and rearing (Moyle et al. 2004; Feyrer et al. 2005; Limm and Marchetti 2009; Moyle et al. 2015; Bellido-Leiva et al. 2021). Rearing juvenile salmon and steelhead use side-channel habitat, when it is available and water temperature is suitable, along the full length of the lower Sacramento River from Keswick Dam to the Delta. Adult Sacramento splittail have been found as far upstream as RBDD, although juveniles have not been found upstream of about Colusa, so the upstream limit of splittail spawning is uncertain (Moyle et al. 2004; Feyrer et al. 2005).

The modeling results for acreage of suitable side-channel habitat in the three reaches of the Sacramento River analyzed indicate that Alternatives 1, 2, and 3 would produce minor changes in mean daily suitable habitat as compared to the NAA in all three reaches (Table 11M-5, Table 11M-6, and Table 11M-7). None of the differences for Reach 1 are greater than 5% and none of those for Reaches 2 and 3 are greater than 6%. The largest differences are an increase of 34 acres in Reach 1 for November of Critically Dry Water Years under Alternative 3 and a reduction of 97 acres in Reach 2 for March of Above Normal Water Years under Alternative 3.

Table 11M-5. Estimated Mean Daily Side-Channel Habitat (Acres <1 Meter Deep) for Juvenile Salmonids in the Sacramento River Reach 1 (Bend Bridge to Hamilton City) and the Percent Differences (in parentheses) for the No Action Alternative (NAA) and Alternatives 1–3 (Alt 1A, Alt 1B, Alt 2, and Alt 3).

Month	Water Year Type	NAA	Alt 1A	Alt 1B	Alt 2	Alt 3
	Wet	1,368	1,348 (-1.4%)	1,348 (-1.5%)	1,348 (-1.4%)	1,352 (-1.1%)
	Above Normal	1,137	1,109 (-2.5%)	1,110 (-2.4%)	1,109 (-2.5%)	1,110 (-2.4%)
lanuari	Below Normal	1,092	1,080 (-1.2%)	1,079 (-1.2%)	1,079 (-1.2%)	1,079 (-1.2%)
January	Dry	1,037	1,020 (-1.6%)	1,021 (-1.5%)	1,020 (-1.6%)	1,022 (-1.5%)
	Critically Dry	1,035	1,020 (-1.5%)	1,019 (-1.6%)	1,019 (-1.6%)	1,020 (-1.5%)
	All	1,166	1,147 (-1.6%)	1,147 (-1.6%)	1,147 (-1.6%)	1,149 (-1.4%)
	Wet	1,481	1,460 (-1.4%)	1,456 (-1.6%)	1,462 (-1.3%)	1,456 (-1.7%)
	Above Normal	1,198	1,186 (-1%)	1,183 (-1.2%)	1,184 (-1.1%)	1,192 (-0.5%)
Fobruser.	Below Normal	1,112	1,083 (-2.6%)	1,083 (-2.6%)	1,080 (-2.9%)	1,078 (-3.1%)
February	Dry	1,057	1,038 (-1.8%)	1,037 (-1.8%)	1,038 (-1.8%)	1,040 (-1.6%)
	Critically Dry	1,058	1,053 (-0.4%)	1,053 (-0.4%)	1,053 (-0.4%)	1,053 (-0.4%)
	All	1,221	1,203 (-1.5%)	1,201 (-1.6%)	1,203 (-1.5%)	1,202 (-1.5%)
	Wet	1,338	1,311 (-2%)	1,309 (-2.2%)	1,312 (-2%)	1,306 (-2.4%)
	Above Normal	1,298	1,249 (-3.8%)	1,248 (-3.8%)	1,249 (-3.8%)	1,247 (-3.9%)
March	Below Normal	1,071	1,024 (-4.3%)	1,025 (-4.3%)	1,024 (-4.3%)	1,025 (-4.3%)
	Dry	1,056	1,033 (-2.1%)	1,029 (-2.5%)	1,034 (-2.1%)	1,029 (-2.5%)
	Critically Dry	1,064	1,058 (-0.5%)	1,057 (-0.6%)	1,058 (-0.5%)	1,056 (-0.8%)

Month	Water Year Type	NAA	Alt 1A	Alt 1B	Alt 2	Alt 3
	All	1,184	1,155 (-2.5%)	1,153 (-2.6%)	1,155 (-2.5%)	1,152 (-2.8%)
	Wet	1,197	1,183 (-1.2%)	1,181 (-1.3%)	1,183 (-1.2%)	1,173 (-2%)
	Above Normal	1,126	1,115 (-0.9%)	1,117 (-0.7%)	1,115 (-0.9%)	1,117 (-0.7%)
A! I	Below Normal	1,013	1,009 (-0.4%)	1,010 (-0.3%)	1,009 (-0.4%)	1,010 (-0.2%)
April	Dry	979	968 (-1.2%)	967 (-1.3%)	968 (-1.2%)	966 (-1.4%)
	Critically Dry	971	972 (0.1%)	974 (0.3%)	972 (0.1%)	973 (0.2%)
	All	1,074	1,065 (-0.9%)	1,065 (-0.8%)	1,065 (-0.8%)	1,062 (-1.1%)
	Wet	1,047	1,029 (-1.7%)	1,029 (-1.6%)	1,029 (-1.7%)	1,026 (-1.9%)
	Above Normal	1,019	1,014 (-0.5%)	1,013 (-0.6%)	1,014 (-0.5%)	1,013 (-0.5%)
Mari	Below Normal	998	998 (0%)	1,000 (0.2%)	998 (0%)	1,007 (0.9%)
May	Dry	998	988 (-1%)	987 (-1.1%)	988 (-1%)	995 (-0.3%)
	Critically Dry	1,019	999 (-2%)	1,002 (-1.7%)	999 (-1.9%)	1,003 (-1.6%)
	All	1,020	1,008 (-1.1%)	1,009 (-1.1%)	1,008 (-1.1%)	1,011 (-0.9%)
	Wet	1,081	1,078 (-0.3%)	1,078 (-0.3%)	1,078 (-0.3%)	1,078 (-0.3%)
	Above Normal	1,087	1,087 (0%)	1,085 (-0.2%)	1,087 (0%)	1,084 (-0.2%)
l	Below Normal	1,083	1,079 (-0.3%)	1,079 (-0.3%)	1,079 (-0.3%)	1,083 (0%)
June	Dry	1,085	1,079 (-0.5%)	1,079 (-0.5%)	1,080 (-0.5%)	1,082 (-0.2%)
	Critically Dry	1,087	1,082 (-0.5%)	1,083 (-0.4%)	1,082 (-0.5%)	1,083 (-0.4%)
	All	1,084	1,080 (-0.3%)	1,080 (-0.3%)	1,080 (-0.3%)	1,081 (-0.2%)
	Wet	1,096	1,096 (0%)	1,096 (0%)	1,096 (0%)	1,096 (0%)
	Above Normal	1,092	1,091 (0%)	1,092 (0%)	1,091 (0%)	1,091 (-0.1%)
luka	Below Normal	1,093	1,093 (0%)	1,093 (-0.1%)	1,093 (0%)	1,094 (0%)
July	Dry	1,099	1,097 (-0.2%)	1,097 (-0.2%)	1,097 (-0.2%)	1,097 (-0.2%)
	Critically Dry	1,091	1,092 (0.1%)	1,092 (0%)	1,092 (0.1%)	1,092 (0%)
	All	1,095	1,095 (0%)	1,095 (0%)	1,095 (0%)	1,094 (-0.1%)
	Wet	1,098	1,098 (-0.1%)	1,098 (-0.1%)	1,098 (0%)	1,098 (-0.1%)
	Above Normal	1,098	1,098 (0%)	1,098 (0%)	1,098 (0%)	1,095 (-0.3%)
August	Below Normal	1,093	1,094 (0%)	1,094 (0%)	1,094 (0%)	1,093 (0%)
August	Dry	1,092	1,096 (0.4%)	1,096 (0.4%)	1,096 (0.4%)	1,094 (0.2%)
	Critically Dry	1,082	1,083 (0.1%)	1,085 (0.3%)	1,084 (0.2%)	1,083 (0.1%)
	All	1,094	1,095 (0.1%)	1,095 (0.1%)	1,095 (0.1%)	1,094 (0%)
	Wet	1,098	1,096 (-0.2%)	1,096 (-0.1%)	1,096 (-0.1%)	1,096 (-0.1%)
	Above Normal	1,093	1,095 (0.1%)	1,098 (0.4%)	1,095 (0.1%)	1,100 (0.6%)
Contombor	Below Normal	1,046	1,048 (0.2%)	1,052 (0.6%)	1,048 (0.2%)	1,055 (0.8%)
September	Dry	998	1,023 (2.5%)	1,025 (2.8%)	1,023 (2.5%)	1,018 (2%)
	Critically Dry	979	999 (2%)	1,001 (2.2%)	1,000 (2.1%)	998 (1.9%)
	All	1,049	1,057 (0.8%)	1,059 (1%)	1,058 (0.8%)	1,058 (0.9%)

Month	Water Year Type	NAA	Alt 1A	Alt 1B	Alt 2	Alt 3
	Wet	1,064	1,074 (0.9%)	1,080 (1.5%)	1,074 (0.9%)	1,071 (0.7%)
	Above Normal	1,063	1,080 (1.5%)	1,074 (1%)	1,078 (1.4%)	1,075 (1.1%)
Octobor	Below Normal	1,048	1,061 (1.3%)	1,063 (1.4%)	1,064 (1.5%)	1,061 (1.2%)
October	Dry	1,059	1,061 (0.2%)	1,061 (0.2%)	1,062 (0.2%)	1,065 (0.6%)
	Critically Dry	991	1,010 (1.9%)	998 (0.6%)	1,010 (1.9%)	1,025 (3.4%)
	All	1,049	1,060 (1%)	1,060 (1%)	1,061 (1.1%)	1,062 (1.2%)
	Wet	1,077	1,074 (-0.2%)	1,077 (0%)	1,074 (-0.2%)	1,079 (0.2%)
	Above Normal	1,068	1,075 (0.7%)	1,077 (0.9%)	1,066 (-0.2%)	1,078 (0.9%)
November	Below Normal	1,053	1,046 (-0.7%)	1,046 (-0.6%)	1,047 (-0.6%)	1,050 (-0.3%)
November	Dry	1,068	1,068 (0%)	1,066 (-0.2%)	1,068 (0%)	1,065 (-0.2%)
	Critically Dry	1,022	1,030 (0.7%)	1,039 (1.7%)	1,036 (1.3%)	1,057 (3.4%)
	All	1,061	1,061 (0%)	1,064 (0.2%)	1,061 (0%)	1,068 (0.6%)
	Wet	1,178	1,174 (-0.3%)	1,172 (-0.5%)	1,175 (-0.3%)	1,171 (-0.6%)
	Above Normal	1,064	1,027 (-3.6%)	1,028 (-3.4%)	1,026 (-3.6%)	1,027 (-3.5%)
December	Below Normal	1,065	1,052 (-1.2%)	1,052 (-1.2%)	1,051 (-1.3%)	1,054 (-1.1%)
December	Dry	1,056	1,047 (-0.8%)	1,045 (-1%)	1,045 (-1%)	1,040 (-1.5%)
	Critically Dry	1,026	1,016 (-0.9%)	1,019 (-0.6%)	1,019 (-0.6%)	1,025 (-0.1%)
	All	1,093	1,081 (-1.1%)	1,080 (-1.2%)	1,081 (-1.1%)	1,080 (-1.2%)

Table 11M-6. Estimated Mean Daily Side-Channel Habitat (Acres <1 Meter Deep) for Juvenile Salmonids in the Sacramento River Reach 2 (Hamilton City to Colusa) and the Percent Differences (in parentheses) for the No Action Alternative (NAA) and Alternatives 1–3 (Alt 1A, Alt 1B, Alt 2, and Alt 3).

Month	Water Year Type	NAA	Alt 1A	Alt 1B	Alt 2	Alt 3
	Wet	1,933	1,889 (-2.2%)	1,887 (-2.3%)	1,892 (-2.1%)	1,890 (-2.2%)
	Above Normal	1,508	1,435 (-4.8%)	1,436 (-4.8%)	1,434 (-4.8%)	1,435 (-4.8%)
lanuani	Below Normal	1,000	978 (-2.2%)	979 (-2.1%)	978 (-2.1%)	980 (-2%)
January	Dry	792	783 (-1.2%)	784 (-1%)	783 (-1.2%)	785 (-0.9%)
	Critically Dry	754	748 (-0.7%)	746 (-1%)	746 (-0.9%)	746 (-1%)
	All	1,288	1,257 (-2.4%)	1,257 (-2.4%)	1,258 (-2.4%)	1,258 (-2.3%)
	Wet	2,418	2,353 (-2.7%)	2,348 (-2.9%)	2,360 (-2.4%)	2,355 (-2.6%)
	Above Normal	1,659	1,594 (-3.9%)	1,575 (-5%)	1,589 (-4.2%)	1,610 (-3%)
Echruany	Below Normal	1,081	1,050 (-2.9%)	1,052 (-2.7%)	1,045 (-3.4%)	1,052 (-2.7%)
February	Dry	950	922 (-2.9%)	921 (-3.1%)	922 (-2.9%)	920 (-3.2%)
	Critically Dry	769	765 (-0.6%)	764 (-0.7%)	764 (-0.7%)	765 (-0.6%)
	All	1,514	1,472 (-2.8%)	1,467 (-3.1%)	1,472 (-2.8%)	1,475 (-2.6%)

Month	Water Year Type	NAA	Alt 1A	Alt 1B	Alt 2	Alt 3
	Wet	1,928	1,888 (-2.1%)	1,882 (-2.4%)	1,895 (-1.7%)	1,868 (-3.1%)
	Above Normal	1,768	1,680 (-5%)	1,680 (-5%)	1,681 (-4.9%)	1,671 (-5.5%)
Manak	Below Normal	936	893 (-4.5%)	893 (-4.5%)	890 (-4.8%)	895 (-4.3%)
March	Dry	885	843 (-4.8%)	840 (-5.1%)	846 (-4.4%)	846 (-4.4%)
	Critically Dry	743	735 (-1.1%)	732 (-1.5%)	735 (-1.1%)	735 (-1.1%)
	All	1,333	1,290 (-3.3%)	1,287 (-3.5%)	1,292 (-3.1%)	1,283 (-3.8%)
	Wet	1,555	1,508 (-3.1%)	1,501 (-3.5%)	1,515 (-2.6%)	1,487 (-4.4%)
	Above Normal	1,104	1,086 (-1.7%)	1,089 (-1.4%)	1,086 (-1.7%)	1,088 (-1.5%)
April	Below Normal	779	765 (-1.8%)	766 (-1.7%)	765 (-1.8%)	766 (-1.7%)
April	Dry	729	720 (-1.2%)	722 (-1%)	720 (-1.1%)	722 (-0.9%)
	Critically Dry	697	696 (0%)	697 (0%)	696 (0%)	696 (-0.1%)
	All	1,050	1,027 (-2.1%)	1,026 (-2.2%)	1,030 (-1.9%)	1,022 (-2.7%)
	Wet	879	863 (-1.8%)	857 (-2.5%)	863 (-1.8%)	854 (-2.8%)
	Above Normal	818	816 (-0.3%)	816 (-0.3%)	816 (-0.3%)	816 (-0.3%)
May	Below Normal	735	735 (-0.1%)	736 (0%)	735 (-0.1%)	737 (0.2%)
May	Dry	708	702 (-0.8%)	702 (-0.8%)	702 (-0.8%)	704 (-0.5%)
	Critically Dry	702	701 (-0.1%)	703 (0.1%)	702 (0%)	702 (0%)
	All	782	775 (-0.9%)	774 (-1.1%)	775 (-0.8%)	773 (-1.1%)
	Wet	809	802 (-0.8%)	800 (-1.1%)	802 (-0.8%)	798 (-1.3%)
	Above Normal	731	723 (-1.2%)	721 (-1.5%)	723 (-1.2%)	722 (-1.3%)
luna	Below Normal	728	728 (0.1%)	727 (-0.1%)	728 (0.1%)	723 (-0.7%)
June	Dry	739	740 (0.2%)	742 (0.4%)	740 (0.1%)	742 (0.4%)
	Critically Dry	710	712 (0.2%)	712 (0.2%)	712 (0.3%)	711 (0.1%)
	All	754	751 (-0.4%)	750 (-0.5%)	751 (-0.4%)	749 (-0.6%)
	Wet	763	760 (-0.4%)	760 (-0.4%)	760 (-0.4%)	760 (-0.4%)
	Above Normal	800	800 (-0.1%)	797 (-0.4%)	800 (-0.1%)	805 (0.7%)
July	Below Normal	771	775 (0.5%)	774 (0.4%)	775 (0.5%)	776 (0.8%)
July	Dry	752	780 (3.7%)	781 (3.8%)	780 (3.7%)	778 (3.5%)
	Critically Dry	715	731 (2.3%)	731 (2.3%)	728 (1.9%)	724 (1.3%)
	All	760	768 (1.1%)	768 (1%)	768 (1%)	768 (1.1%)
	Wet	733	731 (-0.3%)	731 (-0.3%)	732 (-0.2%)	731 (-0.3%)
	Above Normal	735	735 (0%)	738 (0.4%)	735 (0%)	733 (-0.3%)
August	Below Normal	708	710 (0.3%)	711 (0.4%)	710 (0.3%)	713 (0.7%)
August	Dry	707	720 (1.9%)	718 (1.7%)	719 (1.8%)	715 (1.2%)
	Critically Dry	706	709 (0.5%)	707 (0.2%)	707 (0.1%)	711 (0.8%)
	All	719	723 (0.4%)	722 (0.4%)	722 (0.4%)	722 (0.3%)
September	Wet	776	773 (-0.3%)	775 (-0.1%)	775 (-0.1%)	773 (-0.3%)

Month	Water Year Type	NAA	Alt 1A	Alt 1B	Alt 2	Alt 3
	Above Normal	709	710 (0.1%)	712 (0.3%)	710 (0.1%)	717 (1.1%)
	Below Normal	696	696 (0%)	699 (0.4%)	696 (-0.1%)	698 (0.2%)
	Dry	676	686 (1.6%)	690 (2.1%)	687 (1.7%)	685 (1.4%)
	Critically Dry	657	672 (2.3%)	672 (2.3%)	673 (2.4%)	670 (2%)
	All	713	717 (0.5%)	719 (0.9%)	718 (0.6%)	718 (0.6%)
	Wet	733	731 (-0.3%)	735 (0.4%)	731 (-0.2%)	731 (-0.2%)
	Above Normal	714	715 (0.1%)	717 (0.4%)	716 (0.3%)	720 (0.8%)
Ostabau	Below Normal	707	710 (0.4%)	710 (0.5%)	713 (0.8%)	709 (0.4%)
October	Dry	705	701 (-0.6%)	702 (-0.4%)	702 (-0.5%)	703 (-0.3%)
	Critically Dry	681	680 (-0.1%)	678 (-0.5%)	680 (-0.1%)	697 (2.4%)
	All	712	711 (-0.1%)	713 (0.1%)	712 (0%)	715 (0.4%)
	Wet	821	818 (-0.4%)	824 (0.3%)	818 (-0.4%)	827 (0.7%)
	Above Normal	733	736 (0.5%)	736 (0.5%)	730 (-0.4%)	734 (0.2%)
Navanahan	Below Normal	715	713 (-0.3%)	713 (-0.2%)	712 (-0.3%)	714 (0%)
November	Dry	730	728 (-0.3%)	729 (-0.1%)	728 (-0.3%)	731 (0.1%)
	Critically Dry	695	704 (1.3%)	701 (0.8%)	702 (1%)	714 (2.8%)
	All	752	752 (0%)	753 (0.2%)	750 (-0.2%)	757 (0.7%)
	Wet	1,474	1,461 (-0.9%)	1,454 (-1.4%)	1,463 (-0.8%)	1460 (-1%)
	Above Normal	923	886 (-4.1%)	886 (-4.1%)	884 (-4.2%)	886 (-4%)
Danaskan	Below Normal	818	811 (-0.8%)	812 (-0.6%)	811 (-0.8%)	814 (-0.4%)
December	Dry	797	790 (-0.8%)	805 (1%)	790 (-0.9%)	820 (2.9%)
	Critically Dry	713	716 (0.5%)	714 (0.1%)	714 (0.1%)	719 (0.9%)
	All	1,021	1,010 (-1.1%)	1,010 (-1.1%)	1,009 (-1.2%)	1,017 (-0.5%)

<sup>\*</sup> Results for which habitat acreage under Alternative 1, 2, or 3 is more than 5% below habitat acreage under the NAA are highlighted green.

Table 11M-7. Estimated Mean Daily Side-Channel Habitat (Acres <1 Meter Deep) for Juvenile Salmonids in the Sacramento River Reach 3 (Colusa to Knights Landing) and the Percent Differences (in parentheses) for the No Action Alternative (NAA) and Alternatives 1–3 (Alt 1A, Alt 1B, Alt 2, and Alt 3).

Month	Water Year Type	NAA	Alt 1A	Alt 1B	Alt 2	Alt 3
	Wet	250	243 (-3.1%)	242 (-3.5%)	243 (-2.9%)	242 (-3.5%)
	Above Normal	226	213 (-5.6%)	214 (-5.6%)	213 (-5.6%)	213 (-5.6%)
January	Below Normal	138	135 (-1.8%)	135 (-1.7%)	135 (-1.8%)	135 (-1.6%)
	Dry	120	120 (-0.1%)	121 (0.2%)	120 (0%)	121 (0.2%)
	Critically Dry	112	112 (0.6%)	113 (1%)	113 (0.9%)	113 (1.2%)

<sup>^</sup> Results for which habitat acreage under Alternative 1, 2, or 3 is more than 10% higher than habitat acreage under the NAA are highlighted red.

Month	Water Year Type	NAA	Alt 1A	Alt 1B	Alt 2	Alt 3
	All	179	174 (-2.6%)	174 (-2.7%)	174 (-2.5%)	174 (-2.7%)
	Wet	321	314 (-2.1%)	315 (-1.8%)	314 (-2.1%)	317 (-1.1%)
	Above Normal	245	233 (-4.8%)	232 (-5.3%)	233 (-4.8%)	234 (-4.7%)
Га <b>Б</b> игтан .	Below Normal	152	148 (-2.3%)	151 (-0.5%)	148 (-2.4%)	153 (0.9%)
February	Dry	143	139 (-2.4%)	139 (-2.5%)	139 (-2.4%)	139 (-2.8%)
	Critically Dry	110	109 (-0.7%)	109 (-0.7%)	109 (-0.7%)	109 (-0.5%)
	All	211	205 (-2.5%)	206 (-2.3%)	205 (-2.5%)	207 (-1.7%)
	Wet	256	254 (-1.1%)	253 (-1.2%)	254 (-0.7%)	251 (-2.3%)
	Above Normal	243	232 (-4.7%)	232 (-4.6%)	232 (-4.6%)	231 (-5.2%)
N 4 a v ala	Below Normal	129	127 (-1.8%)	127 (-1.9%)	126 (-2.3%)	127 (-1.4%)
March	Dry	123	117 (-5.2%)	116 (-5.5%)	117 (-4.9%)	118 (-4.4%)
	Critically Dry	102	101 (-1.6%)	101 (-1.9%)	101 (-1.6%)	102 (-0.7%)
	All	181	176 (-2.5%)	176 (-2.7%)	177 (-2.4%)	176 (-2.9%)
	Wet	231	222 (-3.9%)	220 (-4.5%)	223 (-3.3%)	219 (-5.3%)
	Above Normal	151	148 (-1.8%)	149 (-1.5%)	148 (-1.8%)	148 (-1.6%)
٨ ا	Below Normal	112	108 (-3.7%)	108 (-3.8%)	108 (-3.7%)	108 (-3.8%)
April	Dry	109	109 (-0.6%)	109 (-0.5%)	109 (-0.5%)	109 (-0.2%)
	Critically Dry	113	113 (0.7%)	113 (0.6%)	113 (0.7%)	113 (0.6%)
	All	155	151 (-2.6%)	150 (-2.8%)	151 (-2.3%)	150 (-3.2%)
	Wet	119	117 (-2.2%)	116 (-2.9%)	117 (-2.1%)	115 (-3.5%)
	Above Normal	128	128 (-0.1%)	128 (-0.1%)	128 (-0.1%)	128 (-0.1%)
Mari	Below Normal	119	119 (0.1%)	118 (-0.3%)	119 (0.1%)	118 (-0.7%)
May	Dry	115	114 (-0.6%)	114 (-0.7%)	114 (-0.6%)	114 (-0.4%)
	Critically Dry	114	115 (0.5%)	115 (1%)	115 (0.7%)	115 (0.9%)
	All	119	118 (-0.8%)	117 (-1%)	118 (-0.7%)	117 (-1.2%)
	Wet	117	117 (0%)	117 (-0.2%)	117 (0%)	117 (-0.3%)
	Above Normal	106	106 (-0.5%)	107 (0.9%)	106 (-0.5%)	107 (1.1%)
luno	Below Normal	108	108 (0.4%)	109 (1%)	108 (0.4%)	109 (0.7%)
June	Dry	106	107 (0.9%)	107 (0.8%)	107 (1%)	106 (-0.1%)
	Critically Dry	111	110 (-0.3%)	111 (0.2%)	111 (0.2%)	111 (0.2%)
	All	111	111 (0.1%)	111 (0.4%)	111 (0.2%)	111 (0.2%)
	Wet	97	96 (-0.2%)	96 (-0.2%)	96 (-0.2%)	96 (-0.2%)
	Above Normal	95	96 (0.6%)	96 (0.9%)	96 (0.6%)	99 (4.5%)
li de	Below Normal	98	97 (-0.5%)	98 (0.2%)	97 (-0.4%)	98 (0.1%)
July	Dry	97	96 (-0.7%)	96 (-1%)	96 (-0.8%)	96 (-0.8%)
	Critically Dry	110	107 (-3.2%)	107 (-3%)	107 (-3.1%)	107 (-3.1%)
	All	99	98 (-0.8%)	98 (-0.6%)	98 (-0.7%)	99 (-0.1%)

Month	Water Year Type	NAA	Alt 1A	Alt 1B	Alt 2	Alt 3
	Wet	98	98 (0.7%)	98 (0.7%)	98 (0.6%)	98 (0.7%)
	Above Normal	98	98 (0.5%)	98 (0.8%)	98 (0.5%)	101 (3.3%)
A	Below Normal	106	105 (-0.8%)	105 (-0.8%)	105 (-0.9%)	106 (-0.6%)
August	Dry	107	101 (-5.5%)	101 (-5.5%)	101 (-5%)	104 (-2.8%)
	Critically Dry	110	109 (-1.1%)	107 (-3%)	108 (-2.3%)	110 (-0.5%)
	All	103	102 (-1.3%)	101 (-1.6%)	101 (-1.4%)	103 (-0.2%)
	Wet	95	95 (-0.2%)	95 (0%)	95 (-0.1%)	95 (-0.2%)
	Above Normal	95	95 (-0.1%)	93 (-2.8%)	95 (-0.2%)	91 (-4.5%)
Carataralaar	Below Normal	115	114 (-1%)	114 (-0.9%)	114 (-1%)	113 (-1.4%)
September	Dry	119	115 (-2.7%)	117 (-1.5%)	116 (-2.6%)	118 (-0.6%)
	Critically Dry	114	115 (0.5%)	115 (0.5%)	115 (0.8%)	115 (0.4%)
	All	106	105 (-0.9%)	106 (-0.8%)	106 (-0.7%)	105 (-1%)
	Wet	105	105 (-0.5%)	105 (0%)	105 (-0.4%)	104 (-1%)
	Above Normal	110	108 (-1.7%)	109 (-1.1%)	108 (-1.7%)	109 (-1.2%)
Oatalaar	Below Normal	111	111 (-0.6%)	110 (-1%)	111 (0%)	109 (-1.8%)
October	Dry	113	110 (-1.9%)	111 (-1.4%)	110 (-1.8%)	109 (-3%)
	Critically Dry	110	109 (-0.9%)	110 (-0.4%)	109 (-0.7%)	114 (3.1%)
	All	109	108 (-1.1%)	109 (-0.7%)	108 (-0.9%)	108 (-1%)
	Wet	121	122 (0.5%)	123 (1.8%)	122 (0.5%)	123 (2%)
	Above Normal	109	109 (0.6%)	109 (0.1%)	108 (-0.3%)	109 (-0.2%)
N a canala a r	Below Normal	111	111 (0.4%)	111 (0.5%)	111 (0.3%)	111 (0.5%)
November	Dry	112	112 (-0.3%)	113 (0.5%)	112 (-0.3%)	114 (1.3%)
	Critically Dry	110	114 (3.1%)	113 (2.8%)	113 (2.1%)	115 (4.7%)
	All	114	115 (0.7%)	115 (1.2%)	114 (0.4%)	116 (1.7%)
	Wet	211	210 (-0.7%)	207 (-1.9%)	210 (-0.6%)	208 (-1.6%)
	Above Normal	140	137 (-1.9%)	137 (-2.4%)	137 (-2.2%)	137 (-2.3%)
Docombor	Below Normal		120 (-0.2%)	121 (0.1%)	120 (-0.1%)	121 (0.6%)
December	Dry	111	111 (0%)	113 (1.9%)	111 (0.4%)	116 (4.4%)
	Critically Dry	113	116 (3.1%)	115 (2.2%)	115 (2.1%)	115 (2%)
	All	149	149 (-0.2%)	148 (-0.6%)	148 (-0.3%)	149 (0%)

<sup>\*</sup> Results for which habitat acreage under Alternative 1, 2, or 3 is more than 5% below habitat acreage under the NAA are highlighted green.

The results of the frequency analysis of inundation of events for all three reaches combined also show some differences between the NAA and Alternatives 1, 2, and 3 (Figure 11M-10). For events with 2,000 to 3,000 acres, the results show modest reductions in frequencies under

<sup>^</sup> Results for which habitat acreage under Alternative 1, 2, or 3 is more than 10% higher than habitat acreage under the NAA are highlighted red.

Alternatives 1, 2, and 3 for events lasting 8–17 days and events lasting over 24 days. In contrast, for events with 2,000 to 3,000 acres lasting 18–24 days, the results show moderate increases in frequencies under Alternatives 1 and 2, but not Alternative 3. As previously noted, inundation lasting 18–24 days has been shown to result in maximum productivity in field studies (Whipple et al. 2019). Tables providing the results plotted in Figure 11M-10 and frequency of inundation tables for every month are provided in Attachment 6.

Alternatives 1, 2, and 3 would result in both reductions and increases in acreage and frequency of suitable inundated side-channel habitat in the Sacramento River. On balance, however, the effects would not be large enough to substantially affect the Chinook salmon, steelhead, and Sacramento splittail populations.

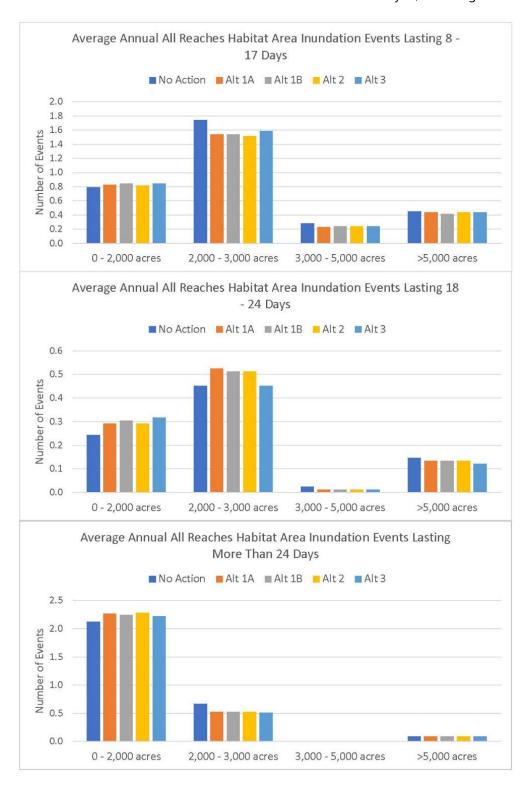


Figure 11M-10. Average Annual Number of Sacramento River Side-Channel Inundation Events (Three River Reaches Combined) with Three Different Ranges of Duration and Four Ranges of Suitable Habitat Acreages for the No Action Alternative (NAA) and Alternatives 1–3 (Alt 1A, Alt 1B, Alt 2, and Alt 3).

#### 11M.4 Conclusion

Except for the Sutter Bypass, the analyses indicated that during the winter and spring months, when inundated habitat is most important to Chinook salmon, steelhead, and Sacramento splittail, the mean daily acreages of suitable habitat are usually lower under Alternatives 1, 2, and 3 than under the NAA. However, the reductions are mostly small and unlikely to have substantial effects on the fish populations. The reductions were largest for the Yolo Bypass (Table 11M-2), but the net reduction for all January through April days was 107 acres or 1.3% (Table 11M-3). The Sutter Bypass results showed almost no reductions and many minor increases in daily habitat acreage under Alternatives 1, 2, and 3 (Table 11M-4). No consistent differences in the frequency of inundation events were found between the NAA and Alternatives 1, 2, and 3.

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Area (acres) of Yolo Bypass with Different Limiting Habitat Suitability Criteria for Rearing Salmonids (Depth < 1 meter deep and/or Flow Velocity < 1.5 feet per second) under Three Different Fremont Weir Spills Levels.

Limiting Habitat Suitability Criteria	2,000 cfs	7,000 cfs	15,000 cfs
Total Suitable Inundated Habitat	25,242 (77%)	25,793 (58%)	23,672 (46%)
Habitat with depth limiting	5,407 (17%)	15,135 (34%)	24,018 (46%)
Habitat with flow velocity limiting	191 (1%)	287 (1%)	393 (1%)
Habitat with depth and velocity limiting	1,915 (6%)	2,959 (7%)	3,673 (7%)
Total Inundated Habitat	32,755 (100%)	44,174 (100%)	51,756 (100%)

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

						Count of Years	That Ex	ceed Fren	nont Weir Flo	w Magnitude Thr	esholds l	Between 1	922 and 200	3, Alternative 1A						
Number of years that contain events		> 0 days				>10 days				> 20 days				> 30 days			> 45 days			
with consecutive days of spills (max	No Action	Alternative 1A	Diff	erence	No Action	Alternative 1A	D:44	erence	No Action	Alternative 1A	Diff	erence	No Action	Alternative 1A	Diff	erence	No Action	Alternative 1A	Diff	erence
7 day gap to count as new event) > 0 cfs	81	Alternative 1A	Diffe	1.2%	NO ACTION	Alternative 1A	Olific O	0.0%		74	Dille	0.0%	NO ACTION	70	Dille	0.0%	NO ACTION	Alternative 1A	Diffe	-3.6%
	01	02	' '		- 11	11	U		/4	74	l o		70		U		55	53	-2	
> 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%

		Count of Years That Exceed Fremont Weir Flow Magnitude Thresholds Between 1922 and 2003, Alternative 1B																		
l., [		> 0 days				>10 days				> 20 days				> 30 days			> 45 days			
Number of years that contain events with consecutive days of spills (max																				
7 day gap to count as new event)	No Action	Alternative 1B	Diffe	erence	No Action	Alternative 1B	Diff	erence	No Action	Alternative 1B	Diff	erence	No Action	Alternative 1B	Diff	erence	No Action	Alternative 1B	Diffe	erence
> 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%

		Count of Years That Exceed Fremont Weir Flow Magnitude Thresholds Between 1922 and 2003, Alternative 2																		
Number of years that contain events		> 0 days				>10 days			> 20 days					> 30 days			> 45 days			
with consecutive days of spills (max 7 day gap to count as new event)		Alternative 2	Diffe	erence	No Action	Alternative 2	Diff	erence	No Action	Alternative 2	Diffe	erence	No Action	Alternative 2	Diffe	erence	No Action	Alternative 2	Diffe	erence
> 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%

	Count of Years That Exceed Fremont Weir Flow Magnitude Thresholds Between 1922 and 2003, Alternative 3																			
Number of years that contain events		> 0 days				>10 days		> 20 days				> 30 days				> 45 days				
with consecutive days of spills (max 7 day gap to count as new event)	No Action	Alternative 3	Diff	erence	No Action	Alternative 3	Diff	erence	No Action	Alternative 3	Diffe	erence	No Action	Alternative 3	Diffe	erence	No Action	Alternative 3	Diffe	erence
> 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%

Figure 1. Frequency of Yolo Bypass Habitat Area Inundation Events.

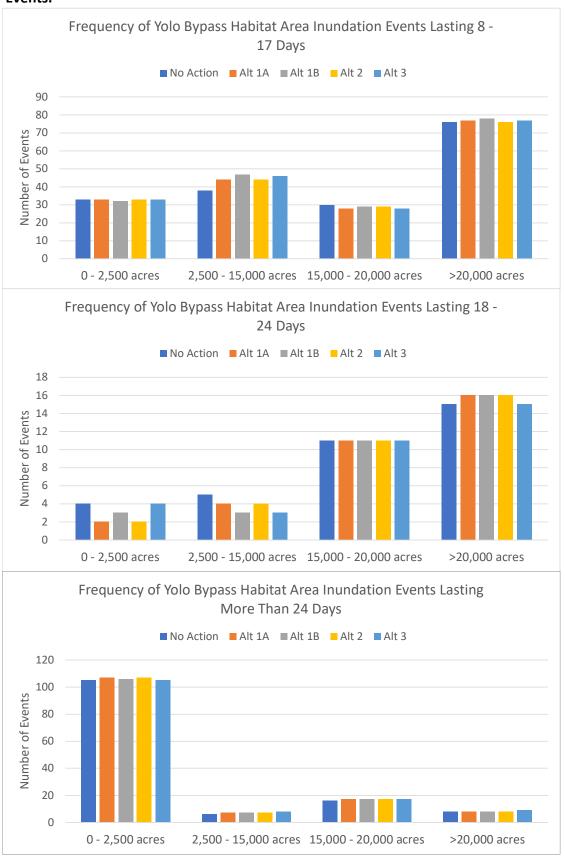


Table 1. Frequency of Yolo Bypass Habitat Area Inundation Events.

,	7   0.00											
			Fr	equency of \	olo Bypass Habi	tat Area Inunc	lation Events	Lasting 8 - 17 Da	ays			
		Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
33	33	0	0%	3	2 -1	-3%	33	0	0%	33	0	0%
38	44	6	16%	4	7 9	24%	44	6	16%	46	8	21%
30	28	-2	-7%	2	9 -1	-3%	29	-1	-3%	28	-2	-7%
76	77	1	1%	7	8 2	3%	76	0	0%	77	1	1%
			Fre	equency of Y		at Area Inund	ation Events L	asting 18 - 24 D	ays			
		Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
4	2	-2	-50%		3 -1	-25%	2	-2	-50%	4	0	0%
5	4	-1	-20%		3 -2	-40%	4	-1	-20%	3	-2	-40%
11	11	0	0%	1	1 0	0%		0	0%	11	0	0%
15	16	1	7%	1	6 1	7%	16	1	7%	15	0	0%
			Freque	ency of Yolo		rea Inundatio	n Events Lasti	ng More Than 2	4 Days			
		Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
105	107	2	2%	10	6 1	1%	107	2	2%	105	0	0%
6	7	1	17%		7 1	17%	7	1	17%	8	2	33%
16	17	1	6%	1	7 1	6%	17	1	6%	17	1	6%
8	8	0	0%		8 0	0%	8	0	0%	9	1	13%
	No Action 33 38 30 76 No Action 4 5 11 15 No Action 105 6 16 16	No Action Alt 1A  33 33  38 44  30 28  76 77  No Action Alt 1A  4 2  5 4  11 11  15 16  No Action Alt 1A	No Action	No Action	Alt 1A minus	No Action	No Action	No Action	No Action   Alt 1A   Alt 1A minus   Percent   Change   Alt 1B   No Action   Change   Alt 2   No Action   No Action   Alt 1A minus   Percent   Change   Alt 2   No Action   Alt 1B   No Action   Change   Alt 2   No Action   Alt 1B   No Action   Change   Alt 2   No Action   Alt 1B   Alt 1B minus   Percent   Change   Alt 2   Alt 2   Alt 2   Alt 3B   Alt 3B   Alt 3B   Alt 4   Alt 6   Alt 6   Alt 6   Alt 6   Alt 7   Alt 7	No Action   Alt 1A minus   No Action   Alt 1A minus   Alt 1A minus   Alt 1B min	No Action   Alt 1A minus   Percent   Alt 1B minus   Alt 1B minus   Percent   Alt 1B minus   Pe	No Action   Alt 1A minus   Percent   Alt 1B minus   Prequency of Yolo Bypass Habitat Area Inundation Events Lasting 8 - 17 Days

<sup>\*</sup>Based on total number of events in 82 year simulation period.

Table 2. Monthly Summary of Frequency of Yolo Bypass Habitat Area Inundation Events Lasting 8 - 17

Days													
					cy of Yolo By			Events Lastin	g 8 - 17 Days in				
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,500 acres	0	0			0	0	-	0	0		0		-
2,500 - 15,000 acres	0	0		1	0	0		0	0		0		-
15,000 - 20,000 acres	0	0		-	0	0	-	0	0	-	0		) -
>20,000 acres	0	0		-		U U	a Incondution I	0	0 17 Days in 1	-	0		) -
		1	Alt 1A minus	Percent	у от того вур	Alt 1B minus	Percent	vents Lasting	8 - 17 Days in I Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,500 acres	1 1	1	NO ACTION		AIL 15 1	NO ACTION		AIL 2	0		1		O 0%
2,500 - 15,000 acres	1	0		1	0	0		0	0		0		) -
15,000 - 20,000 acres	0	0			0	0		0	0		0		
>20,000 acres	3	3	+		3	0		3	0		3	<b>!</b>	0 0%
						_			8 - 17 Days in				
			Alt 1A minus	Percent	, , <u>, , , , , , , , , , , , ,</u>	Alt 1B minus	Percent	1	Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,500 acres	6	5	-1	-17%	5	-1	-17%	5	-1	-17%	6	(	0%
2,500 - 15,000 acres	7	7	0	0%	9	2	29%	7	0	0%	8		1 14%
15,000 - 20,000 acres	4	4	0	0%	4	0	0%	4	0	0%	4	(	0%
>20,000 acres	10	11	1	10%	12	2	20%	11	1	10%	12		2 20%
					cy of Yolo By		ea Inundation	Events Lastin	ng 8 - 17 Days ir	January			
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,500 acres	7	7	0		7	0	0%	7	0		7	(	0%
2,500 - 15,000 acres	9	10		11%	10	1	11%	10	1	11%	10		1 11%
15,000 - 20,000 acres	6	6		0%	6	0	0%	6	0		6	(	
>20,000 acres	19	18	-1	-5%	18	-1	-5%	18	-1	-5%	18		1 -5%
		1	Al+ 1 A 1		Ly ot Yolo Byp			Events Lastin	g 8 - 17 Days in			Al+ 2:	Dorcent
Aroa Pange	No Action	ΛI+ 1 Λ	Alt 1A minus	Percent	Al+ 1D	Alt 1B minus	Percent	Alt 2	Alt 2 minus	Percent	ΛI+ 2	Alt 3 minus	Percent
Area Range 0 - 2,500 acres	No Action	Alt 1A	No Action	Change 0%	Alt 1B	No Action	Change 0%	Alt 2	No Action	Change 0%	Alt 3	No Action	Change
2,500 - 15,000 acres	9	8		1	10	1	11%	8	0		8 10	-	0 0%
15,000 - 15,000 acres	10	9		-10%	10	0		10	0		9		1 -10%
>20,000 acres	22	22			22	0	-	22	0		22		0 0%
>20,000 deres						_			ng 8 - 17 Days i				5 070
			Alt 1A minus	Percent	1.0, 0. 10.0 5	Alt 1B minus	Percent	T EVENTS EAST.	Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,500 acres	6	7	1	17%	7	1	17%	7	1	17%	7		1 17%
2,500 - 15,000 acres	8	12	4	50%	12	4	50%	12	4	50%	12	4	4 50%
15,000 - 20,000 acres	5	4		200/					-1	-20%	4		200/
				-20%	4	-1	-20%	4	-1	-20%	4		1 -20%
>20,000 acres	15	13		-20%	13	-1	-20% -13%	13	-1	-13%	12		3 -20%
>20,000 acres	15			-13%	13	-1 -2 ypass Habitat A	-13%	13	-1 -2 ing 8 - 17 Days	-13%		-3	
>20,000 acres	15			-13%	13	-1 -2 ypass Habitat A Alt 1B minus	-13%	13	-2	-13%		Alt 3 minus	
Area Range	15 No Action	Alt 1A	Alt 1A minus No Action	-13% Freque Percent Change	13	-	-13% Area Inundatio	13 on Events Last Alt 2	-2 ing 8 - 17 Days	-13% in April Percent Change		Alt 3 minus No Action	-20%
Area Range 0 - 2,500 acres		13	Alt 1A minus No Action	Freque Percent Change	13 ency of Yolo B	Alt 1B minus	-13% Area Inundation Percent Change -33%	13 on Events Last Alt 2	-2 ing 8 - 17 Days Alt 2 minus	-13% in April Percent Change 0%	12		Percent Change
Area Range 0 - 2,500 acres 2,500 - 15,000 acres		Alt 1A 3	Alt 1A minus No Action	-13% Freque Percent Change 0% 33%	13 ency of Yolo B Alt 1B 2	Alt 1B minus No Action	-13% Area Inundation Percent Change -33% 33%	13 on Events Last Alt 2	-2 ing 8 - 17 Days Alt 2 minus No Action 0	-13% in April Percent Change 0% 33%	Alt 3 2 4	No Action	Percent Change 1 -33% 1 33%
Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres		Alt 1A 3 4 5	Alt 1A minus No Action 0	-13% Freque Percent Change 0% 33% 0%	13 ency of Yolo B Alt 1B 2 4	Alt 1B minus	-13% Area Inundation Percent Change -33% 33% 0%	Alt 2	ing 8 - 17 Days Alt 2 minus No Action	-13% in April Percent Change 0% 33% 0%	Alt 3 2 4 5	No Action	Percent Change 1 -33% 1 33% 0 0%
Area Range 0 - 2,500 acres 2,500 - 15,000 acres		Alt 1A 3	Alt 1A minus No Action 0	-13% Freque Percent Change 0% 33% 0% 50%	13 ency of Yolo B Alt 1B 2 4 5	Alt 1B minus No Action  -1  1  0 3	-13% Area Inundation Percent Change -33% 33% 0% 50%	Alt 2  3 4 5 8	-2 ing 8 - 17 Days Alt 2 minus No Action 0 1 0	-13% in April Percent Change 0% 33% 0% 33%	Alt 3 2 4	No Action	Percent Change 1 -33% 1 33%
Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres		Alt 1A 3 4 5	Alt 1A minus No Action 0 1 0 3	reque Percent Change 0% 33% 0% 50%	13 ency of Yolo B Alt 1B 2 4 5	Alt 1B minus No Action  -1  0  yypass Habitat /	-13% Area Inundation Percent Change -33% 33% 0% 50% Area Inundation	Alt 2  3 4 5 8	-2 ing 8 - 17 Days Alt 2 minus No Action 0 1 0 2 ing 8 - 17 Days	-13% in April Percent Change  0% 33% 0% 33% in May	Alt 3 2 4 5	No Action	Percent Change 1 -33% 1 33% 0 0% 3 50%
Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres >20,000 acres	No Action 3 3 5 6	Alt 1A 3 4 5 9	Alt 1A minus No Action  0 1 0 3  Alt 1A minus	rreque Percent Change  0% 33% 0% 50% Freque Percent	Alt 1B  2  4  5  9  ency of Yolo B	Alt 1B minus No Action  -1  0  3  sypass Habitat Alt 1B minus	-13% Area Inundation Percent Change -33% -33% -0% -50% Area Inundation Percent	Alt 2  3 4 5 8 on Events Last	-2 ing 8 - 17 Days Alt 2 minus No Action 0 1 0 2 ing 8 - 17 Days Alt 2 minus	-13% in April Percent Change  0% 33% 0% 33% in May Percent	Alt 3  2  4  5  9	No Action	Percent Change 1 -33% 1 33% 0 0% 8 50%
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Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres >20,000 acres  Area Range 0 - 2,500 acres 15,000 - 20,000 acres 15,000 - 20,000 acres >20,000 acres >20,000 acres >20,000 acres >20,000 acres >20,000 acres >2,500 - 15,000 acres >20,000 acres	No Action	Alt 1A  Alt 1A  Alt 1A  Alt 1A  Alt 1A  O  Alt 1A  O  Alt 1A  O  Alt 1A  O  O  O  O  O  O  O  O  O  O  O  O  O	Alt 1A minus No Action  0  1  0  1  0  1  0  0  1  0  0  0  0	-13% Freque Percent Change  0% 33% 0% 50% Freque Percent Change  0% 0% Freque Percent Change	13 ency of Yolo E  Alt 1B  2  4  5  9 ency of Yolo E  Alt 1B  2  2  Alt 1B  0  0  0  ency of Yolo I  Alt 1B  0  0  0  ency of Yolo I  Alt 1B  0  0  0  ency of Yolo I  Alt 1B  0  0  0  0  1  1  1  1  1  1  1  1  1	Alt 1B minus No Action  -1  0  3  Pypass Habitat Alt 1B minus No Action  0  0  0  ypass Habitat I  Alt 1B minus No Action  0  0  0  0  0  0  0  0  0  0  0  0  0	-13% Area Inundatio Percent Change -33% -33% -50% Area Inundatio Percent Change -0% -0% -0%	13 on Events Last  Alt 2  2 2 0 1 13 on Events Last  Alt 2  0 0 1 1 on Events Last  Alt 2  0 0 0 0 on Events Last  Alt 2  Alt 2  0 0 0 0 on Events Last  Alt 2  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-2 ing 8 - 17 Days Alt 2 minus No Action  0 2 ing 8 - 17 Days Alt 2 minus No Action  0 0 0 0 ing 8 - 17 Days Alt 2 minus No Action  0 0 ing 8 - 17 Days Alt 2 minus No Action  0 0 0 0 at 2 ing 8 - 17 Days Alt 2 minus No Action  0 0 0 at 3 - 17 Days Alt 2 minus No Action  0 0 0 0 at 3 - 17 Days No Action  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-13% in April Percent Change  0% 33% in May Percent Change  0% 0%  0% in June Percent Change  in July Percent Change	Alt 3  O  O  O  O  O  O  O  O  O  O  O  O  O	Alt 3 minus No Action	Percent   Change   1
Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres >20,000 acres >20,000 acres Area Range 0 - 2,500 acres 15,000 - 20,000 acres >20,000 acres 2,500 - 15,000 acres 15,000 - 20,000 acres >20,000 acres 15,000 - 20,000 acres >20,000 acres >20,000 acres Area Range 0 - 2,500 acres 2,500 - 15,000 acres >20,000 acres >20,000 acres 15,000 - 20,000 acres >20,000 acres 15,000 - 20,000 acres	No Action	Alt 1A  O  O  O  O  O  O  O  O  O  O  O  O  O	Alt 1A minus No Action  0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-13% Freque Percent Change  0% 50% Freque Percent Change  0% 0% 0% Freque Percent Change	13 ency of Yolo E  Alt 1B  2  4  5  9 ency of Yolo E  Alt 1B  2  2  Alt 1B  0  0  0  ency of Yolo I  Alt 1B  0  0  0  ency of Yolo I  Alt 1B  0  0  0  ency of Yolo I  Alt 1B  0  0  0  0  1  1  1  1  1  1  1  1  1	Alt 1B minus No Action  -1  0  3  Pypass Habitat A  Alt 1B minus No Action  0  0  0  ypass Habitat A  Alt 1B minus No Action  0  0  0  0  0  0  0  0  0  0  0  0  0	-13% Area Inundatio Percent Change -33% 33% O% Area Inundatio Percent Change O% Area Inundatio Percent Change	13 on Events Last  Alt 2  2 2 0 1 13 on Events Last  Alt 2  0 0 1 1 on Events Last  Alt 2  0 0 0 0 on Events Last  Alt 2  Alt 2  0 0 0 0 on Events Last  Alt 2  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Alt 2 minus No Action  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-13% in April Percent Change  0% 33% in May Percent Change  0% 0% in June Percent Change	Alt 3  O  O  Alt 3  O  O  O  O  O  O  O  O  O  O  O  O  O	Alt 3 minus No Action	Percent Change
Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres >20,000 acres  Area Range 0 - 2,500 acres 15,000 - 20,000 acres 15,000 - 20,000 acres 15,000 - 20,000 acres >20,000 acres 20,000 acres  Area Range 0 - 2,500 acres 2,500 - 15,000 acres >20,000 acres 15,000 - 20,000 acres 15,000 - 20,000 acres	No Action	Alt 1A  O  O  O  O  O  O  O  O  O  O  O  O  O	Alt 1A minus No Action  0  1  0  1  0  1  0  0  1  0  0  0  0	-13% Freque Percent Change  0% 33% 0% 50% Freque Percent Change  0% 0% Freque Percent Change	13 ency of Yolo E  Alt 1B  2  4  5  9 ency of Yolo E  Alt 1B  2  2  Alt 1B  0  0  0  ency of Yolo I  Alt 1B  0  0  0  ency of Yolo I  Alt 1B  0  0  0  ency of Yolo I  Alt 1B  0  0  0  0  1  1  1  1  1  1  1  1  1	Alt 1B minus No Action  -1  0  3  Pypass Habitat Alt 1B minus No Action  0  0  0  ypass Habitat I  Alt 1B minus No Action  0  0  0  0  0  0  0  0  0  0  0  0  0	-13% Area Inundatio Percent Change -33% -33% -50% Area Inundatio Percent Change -0% -0% -0%	13 on Events Last  Alt 2  2 2 0 1 13 on Events Last  Alt 2  0 0 1 1 on Events Last  Alt 2  0 0 0 0 on Events Last  Alt 2  Alt 2  0 0 0 0 on Events Last  Alt 2  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-2 ing 8 - 17 Days Alt 2 minus No Action  0 2 ing 8 - 17 Days Alt 2 minus No Action  0 0 0 0 ing 8 - 17 Days Alt 2 minus No Action  0 0 ing 8 - 17 Days Alt 2 minus No Action  0 0 0 0 at 2 ing 8 - 17 Days Alt 2 minus No Action  0 0 0 at 3 - 17 Days Alt 2 minus No Action  0 0 0 0 at 3 - 17 Days No Action  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-13% in April Percent Change  0% 33% in May Percent Change  0% 0%  0% in June Percent Change  in July Percent Change	Alt 3  O  O  Alt 3  O  O  O  O  O  O  O  O  O  O  O  O  O	Alt 3 minus No Action	Percent   Change   1
Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres >20,000 acres >20,000 acres Area Range 0 - 2,500 acres 15,000 - 20,000 acres >20,000 acres >20,000 acres >20,000 acres >20,000 acres >20,000 acres -20,000 acres -25,000 acres	No Action	Alt 1A  Alt 1A  Alt 1A  Alt 1A  Alt 1A  O  O  Alt 1A  O  O  O  Alt 1A  O  O  O  O  O  O  O  O  O  O  O  O  O	Alt 1A minus No Action  0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-13% Freque Percent Change  0% 33% 50% Freque Percent Change  0% 0% Freque Percent Change	13 ency of Yolo E  Alt 1B  2 2 4 4 5 9 ency of Yolo E  Alt 1B  2 2 2 2 2 2 2 2 2 3 4 4 1 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Alt 1B minus No Action  -1  0  3  Ivypass Habitat A Alt 1B minus No Action  0  0  0  vypass Habitat A Alt 1B minus No Action  0  0  0  0  0  0  0  0  0  0  0  0  0	-13% Area Inundation Percent Change -33% -33% -33% -33% -33% -33% -33% -33	13 on Events Last  Alt 2  3  4  5  8  on Events Last  Alt 2  2  2  2  3  on Events Last  Alt 2  Alt 2  On Events Last  Alt 2  Alt 2  On Events Last  Alt 2  Alt 2  On On Events Last  Alt 2  On On Events Lasting	-2 ing 8 - 17 Days Alt 2 minus No Action  1 0 2 ing 8 - 17 Days Alt 2 minus No Action  0 0 0 0 0 ing 8 - 17 Days Alt 2 minus No Action  0 0 0 ing 8 - 17 Days Alt 2 minus No Action  0 0 0 0 0 ing 8 - 17 Days Alt 2 minus No Action  0 0 0 0 0 1 8 - 17 Days in Alt 2 minus No Action  0 0 0 0 8 - 17 Days in Alt 2 minus No Action  0 0 0 0 8 - 17 Days in Alt 2 minus No Action	-13% in April Percent Change  0% 33% 0% 33% in May Percent Change  0% 0% in June Percent Change	Alt 3  O  O  O  O  O  O  O  O  O  O  O  O  O	Alt 3 minus No Action	Percent   Change   1
Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres >20,000 acres >20,000 acres >20,000 acres  Area Range 0 - 2,500 acres 15,000 - 20,000 acres >20,000 acres >20,000 acres >20,000 acres  Area Range 0 - 2,500 acres 2,500 - 15,000 acres >20,000 acres  Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres 15,000 - 20,000 acres 15,000 - 20,000 acres >20,000 acres Area Range 0 - 2,500 acres 2,500 - 15,000 acres 2,500 - 15,000 acres 2,500 - 20,000 acres 2,500 - 20,000 acres	No Action	Alt 1A	Alt 1A minus No Action  Alt 1A minus No Action  O  O  O  O  O  Alt 1A minus No Action  O  O  Alt 1A minus No Action  O  O  O  Alt 1A minus No Action  O  O  O  O  O  O  O  O  O  O  O  O  O	-13% Freque Percent Change  0% 33% 0% 50% Freque Percent Change  0% 0% Freque Percent Change	13 ency of Yolo E  Alt 1B  2 2 2 3 ency of Yolo E  Alt 1B  2 2 2 3 ency of Yolo E  Alt 1B  0 0 0 0 0 ency of Yolo B  Alt 1B  0 0 0 0 ency of Yolo B  Alt 1B  Alt 1B  O 0 0 0 o o o o o o o o o o o o o o o	Alt 1B minus No Action  -1  0  3  ypass Habitat Alt 1B minus No Action  0  0  ypass Habitat Alt 1B minus No Action  0  0  0  0  0  0  0  0  0  0  0  0  0	-13% Area Inundatio Percent Change -33% -33% -50% Area Inundatio Percent Change -0% -0% -0% Area Inundatio Percent Change	13 on Events Last Alt 2  3 4 5 8 8 on Events Last Alt 2  2 2 0 1 1 on Events Last Alt 2  Alt 2  Alt 2  Alt 2  O 0 0 0 on Events Last Alt 2	-2 ing 8 - 17 Days Alt 2 minus No Action  0 0 1 1 0 2 ing 8 - 17 Days Alt 2 minus No Action  0 0 0 0 ing 8 - 17 Days Alt 2 minus No Action  0 0 0 ing 8 - 17 Days Alt 2 minus No Action  0 0 0 0 ating 8 - 17 Days Alt 2 minus No Action  0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 8 - 17 Days in Alt 2 minus No Action  0 0 0 0 0 0 0 0 8 - 17 Days in Alt 2 minus No Action  0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0	-13% in April Percent Change  0% 33% in May Percent Change  0% 0%  0%  in June Percent Change  in July Percent Change	Alt 3	Alt 3 minus No Action	Percent Change
Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres >20,000 acres >20,000 acres >20,000 acres  Area Range 0 - 2,500 acres >20,000 acres >20,000 acres >20,000 acres >20,000 acres >20,000 acres >20,000 acres  Area Range 0 - 2,500 - 15,000 acres 15,000 - 20,000 acres 20,000 acres  Area Range 0 - 2,500 acres 20,000 acres  Area Range 0 - 2,500 acres 20,000 acres >20,000 acres	No Action	Alt 1A  Alt 1A	Alt 1A minus No Action  Alt 1A minus No Action  O  O  O  Alt 1A minus No Action  O  O  Alt 1A minus No Action  O  O  O  Alt 1A minus No Action  O  O  O  O  O  O  O  O  O  O  O  O  O	-13% Freque Percent Change  0% 50% Freque Percent Change  0% 0% 0% Freque Percent Change	13 ency of Yolo E  Alt 1B  2  4  5  9 ency of Yolo E  Alt 1B  2  2  Alt 1B  Alt 1B  0  0  0  ency of Yolo B  Alt 1B  0  0  0  ency of Yolo B  Alt 1B  0  0  0  vo f Yolo Bypi  Alt 1B	Alt 1B minus No Action  -1  0  3  Pypass Habitat Alt 1B minus No Action  0  0  0  ypass Habitat Alt 1B minus No Action  0  0  0  0  0  0  0  0  0  0  0  0  0	-13% Area Inundatio Percent Change -33% 50% Area Inundatio Percent Change 0% 0% Area Inundatio Percent Change	13 on Events Last  Alt 2  3  4  5  8 on Events Last  Alt 2  2  2  0  1 on Events Last  Alt 2  0  0  1 on Events Last  Alt 2  Alt 2  0  0  0  on Events Last  Alt 2  0  0  0  on Events Last  Alt 2  0  0  0  0  0  0  0  0  0  0  0  0  0	Alt 2 minus No Action  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-13% in April Percent Change  0% 33% 0% 33% in May Percent Change  0% in June Percent Change	Alt 3  O  Alt 3	Alt 3 minus No Action	Percent   Change   1
Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres >20,000 acres >20,000 acres Area Range 0 - 2,500 acres 15,000 - 20,000 acres >20,000 acres 2,500 - 15,000 acres 2,500 - 15,000 acres >20,000 acres	No Action	Alt 1A  Alt 1A  Alt 1A  Alt 1A  Alt 1A  O  O  Alt 1A  Alt 1A  O  Alt 1A  O  O  O  Alt 1A  O  O  O  O  O  O  O  O  O  O  O  O  O	Alt 1A minus No Action  O  Alt 1A minus No Action  O  O  O  Alt 1A minus No Action  O  O  Alt 1A minus No Action  O  O  O  O  O  O  O  O  O  O  O  O  O	-13% Freque Percent Change  0% 33% 50% Freque Percent Change  0% 0% Freque Percent Change	13 ency of Yolo E  Alt 1B  2 4 4 5 9 9 ency of Yolo E  Alt 1B  Alt 1B  O O O O O O O O O O O O O O O O O O	Alt 1B minus No Action  -1  0  3  ypass Habitat A Alt 1B minus No Action  0  0  0  ypass Habitat A Alt 1B minus No Action  0  0  0  3  ypass Habitat A Alt 1B minus No Action  0  0  0  0  0  0  0  0  0  0  0  0  0	-13% Area Inundation Percent Change -33% -33% -33% -33% -33% -33% -33% -33	13 on Events Last  Alt 2  3  4  5  8  on Events Last  Alt 2  2  2  0  1  on Events Last  Alt 2  Alt 2  0  0  1  on Events Last  Alt 2  O  O  O  Covents Lasting  Alt 2  Alt 2  O  O  O  O  O  O  O  O  O  O  O  O  O	-2 ing 8 - 17 Days Alt 2 minus No Action  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-13% in April Percent Change  0% 33% 0% 33% in May Percent Change  0% in June Percent Change	Alt 3  O  O  O  O  O  O  O  O  O  O  O  O  O	Alt 3 minus No Action  Alt 3 minus No Action	Percent   Change   1

Table 3. Monthly Summary of Frequency of Yolo Bypass Habitat Area Inundation Events Lasting 18 - 24 Days

				Frequenc	y of Yolo Byp	ass Habitat Are	a Inundation	Events Lasting	g 18 - 24 Days ir	October			
			Alt 1A minus	Percent	, ,,	Alt 1B minus	Percent	·	Alt 2 minus	Percent		Alt 3 minus	Percent
Aroa Pango	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	l l	Alt 2	No Action		Alt 3	No Action	
Area Range	NO ACTION					+	Change		+	Change			Change
0 - 2,500 acres	0	0	0	-	0	0	-	0	0	-	0	0	-
2,500 - 15,000 acres	0	0	0	-	0	0	-	0	0	-	0	0	-
15,000 - 20,000 acres	0				0			0		_	0	0	
										-			
>20,000 acres	0	0	0	-	0	0	-	0	0	-	0	0	-
•				Frequency	of Yolo Bypa	ss Habitat Area	Inundation E	vents Lasting	18 - 24 Days in	November			
			Alt 1A minus	Percent	,,,,,	Alt 1B minus	Percent	1	Alt 2 minus	Percent		Alt 3 minus	Percent
							l l						
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,500 acres	0	0	0	-	0	0	-	0	0	-	0	0	-
2,500 - 15,000 acres	0				0			0			0	0	
										-			
15,000 - 20,000 acres	0	0	0	-	0	0	-	0	0	-	0	0	-
>20,000 acres	0	0	0	-	0	0	-	0	0	-	0	0	-
				Ereguency	of Volo Byna	ss Habitat Area	Inundation E	vents Lasting	18 - 24 Days in	December			
					того того вура			vents tasting					
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
										0%	1		
0 - 2,500 acres	1	1	0		1		1	1				0	
2,500 - 15,000 acres	1	1	0	0%	0	-1	-100%	1	0	0%	0	-1	-100%
15,000 - 20,000 acres	0	0	0	-	0	0	-	0	0	-	0	0	-
								6		0%	5	-1	
>20,000 acres	ь	6	U		6		1				5	-1	-17%
				Frequenc	cy of Yolo Byp	ass Habitat Are	ea Inundation	Events Lasting	g 18 - 24 Days ii	n January			
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Aroa Barra	No Antin	Al+ 1 A			Alt 1D			A  + 2			ΛI+ 2		
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,500 acres	0	0	0	-	0	0	-	0	0	-	1	1	-
2,500 - 15,000 acres	0				0			0		_	0	0	_
	- <u>'</u>												
15,000 - 20,000 acres	2	2	0		2			2	0	0%	2	0	
>20,000 acres	2	2	0	0%	2	0	0%	2	0	0%	2	0	0%
-	<b>-</b>	-						Events Lastina	118 - 24 Dave in				
·					у от тою вур			verius Lasting	18 - 24 Days in				
			Alt 1A minus	Percent		Alt 1B minus	Percent	I	Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
	. TO ACCION	1				.vo Action		. 111. 4	. TO ACTION			. TO ACCION	
0 - 2,500 acres	2	1	-1	-50%	1	-1	-50%	1	-1	-50%	1	-1	-50%
2,500 - 15,000 acres	0	0	0	-	0	0	-	0	0	-	0	0	-
		4	0		4		<del></del>	4		0%	4	0	
15,000 - 20,000 acres	4											0	
>20,000 acres	2	3	1	50%	3	1	50%	3	1	50%	3	1	50%
		•		Frequen	cy of Volo By	nass Hahitat Δr	ea Inundation	Events Lastin	g 18 - 24 Days	n March	•		
					cy or rolo by			LVEITS Lastii	<u> </u>				
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,500 acres	1	0		-100%	0		-100%	0		-100%	0	1	
			-1				1		+			-1	-100%
2,500 - 15,000 acres	2	1	-1	-50%	1	-1	-50%	1	-1	-50%	1	-1	-50%
15,000 - 20,000 acres	2	2	0	0%	2	0	0%	2	0	0%	2	0	0%
				50%	3		50%	3		50%	3	4	50%
>20,000 acres	2	3											
			_	3070	,	1	50%	3	1	3070	,	1	50%
			_									1	30%
			l.	Freque		pass Habitat A	rea Inundatio		ng 18 - 24 Days	in April		Alt 2 minus	
			Alt 1A minus	Freque Percent	ncy of Yolo By	pass Habitat A Alt 1B minus	rea Inundatio Percent	n Events Lasti	ng 18 - 24 Days Alt 2 minus	in April Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	l.	Freque		pass Habitat A	rea Inundatio		ng 18 - 24 Days	in April	Alt 3	Alt 3 minus No Action	
	No Action		Alt 1A minus No Action	Freque Percent Change	ncy of Yolo By	/pass Habitat A Alt 1B minus No Action	rea Inundatio Percent	n Events Lasti Alt 2	ng 18 - 24 Days Alt 2 minus No Action	in April Percent			Percent
0 - 2,500 acres		0	Alt 1A minus No Action	Freque Percent Change	ncy of Yolo By Alt 1B	pass Habitat A Alt 1B minus No Action	rea Inundatio Percent Change	n Events Lasti Alt 2	ng 18 - 24 Days Alt 2 minus No Action 0	in April Percent Change	Alt 3	No Action	Percent Change
0 - 2,500 acres 2,500 - 15,000 acres		0	Alt 1A minus No Action 0	Freque Percent Change - 0%	Alt 1B	rpass Habitat A Alt 1B minus No Action 1	Percent Change	Alt 2 0	ng 18 - 24 Days Alt 2 minus No Action 0	in April Percent Change	Alt 3 1	No Action 1	Percent Change - 0%
0 - 2,500 acres		0	Alt 1A minus No Action	Freque Percent Change - 0%	ncy of Yolo By Alt 1B	rpass Habitat A Alt 1B minus No Action 1	Percent Change	n Events Lasti Alt 2	ng 18 - 24 Days Alt 2 minus No Action 0	in April Percent Change	Alt 3	No Action	Percent Change - 0%
0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres		0 1 3	Alt 1A minus No Action 0	Percent Change - 0% 0%	Alt 1B  1  3	/pass Habitat A Alt 1B minus No Action 1 0	rea Inundatio Percent Change - 0% 0%	Alt 2 0	ng 18 - 24 Days Alt 2 minus No Action 0 0	in April Percent Change - 0% 0%	Alt 3 1 1 3	No Action 1	Percent Change - 0% 0%
0 - 2,500 acres 2,500 - 15,000 acres		0	Alt 1A minus No Action 0	Percent Change - 0% 0% -33%	Alt 1B  1  3 2	ypass Habitat A Alt 1B minus No Action  0 0 -1	Percent Change - 0% 0% -33%	Alt 2 0 1 3 2	ng 18 - 24 Days Alt 2 minus No Action 0 0 -1	in April Percent Change - 0% 0% -33%	Alt 3 1	No Action 1	Percent Change
0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres		0 1 3	Alt 1A minus No Action 0 0 0	Frequent Change - 0% 0% -33% Freque	Alt 1B  1  3 2	Alt 1B minus No Action  1 0 0 -1 pages Habitat A	Percent Change - 0% 0% -33% trea Inundatio	Alt 2 0 1 3 2	ng 18 - 24 Days Alt 2 minus No Action 0 0 -1 ng 18 - 24 Days	in April Percent Change - 0% 0% -33% in May	Alt 3 1 1 3	No Action 1 0 0 -1	Percent Change - 0% 0% -33%
0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres		0 1 3	Alt 1A minus No Action 0	Percent Change - 0% 0% -33%	Alt 1B  1  3 2	ypass Habitat A Alt 1B minus No Action  0 0 -1	Percent Change - 0% 0% -33%	Alt 2 0 1 3 2	ng 18 - 24 Days Alt 2 minus No Action 0 0 -1	in April Percent Change - 0% 0% -33%	Alt 3 1 1 3	No Action 1	Percent Change - 0% 0%
0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres >20,000 acres	0 1 3 3	0 1 3 2	Alt 1A minus No Action 0 0 -1 Alt 1A minus	Freque Percent Change - 0% 0% -33% Freque	Alt 1B  1  3  2  ncy of Yolo Br	ypass Habitat A Alt 1B minus No Action  1 0 0 -1 ypass Habitat A Alt 1B minus	rea Inundatio Percent Change  0% 0% -33% rea Inundatio	Alt 2  0 1 3 2 n Events Lasti	ng 18 - 24 Days Alt 2 minus No Action 0 0 -1 ng 18 - 24 Days Alt 2 minus	in April Percent Change  0% 0% -33% in May Percent	Alt 3 1 1 3 2	No Action	Percent Change - 0% 0% -33%
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0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres >20,000 acres >20,000 acres 2,500 - 15,000 acres 2,500 - 15,000 acres 15,000 - 20,000 acres >20,000 acres  Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres >20,000 acres >20,000 acres 2,500 - 15,000 acres >20,000 acres >20,000 acres 2,500 - 15,000 acres >20,000 acres	No Action	Alt 1A  Alt 1A  O  O  O  Alt 1A  O  O  Alt 1A  Alt 1A  O  O  Alt 1A  O  O  O  Alt 1A  O  O  O  O  O  O  O  O  O  O  O  O  O	Alt 1A minus No Action  0 0 0 0 1 -1  Alt 1A minus No Action  0 0 0 Alt 1A minus No Action  0 0 0 Alt 1A minus No Action  0 0 0 0 0 Alt 1A minus No Action  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Frequei Percent Change  0% 0% -33% Freque Percent Change	Alt 1B  Alt 1B  1  1  3  2  ncy of Yolo B  Alt 1B  0  0  0  ncy of Yolo B  Alt 1B  0  0  cry of Yolo B  Alt 1B  Alt 1B  0  0  0  cry of Yolo B  Alt 1B  Alt 1B  Alt 1B  O  O  o  o  o  o  o  o  o  o  o  o  o	pass Habitat A Alt 1B minus No Action  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	rea Inundatio Percent Change  0% 0% -33% rea Inundatio Percent Change	Alt 2  O	ng 18 - 24 Days Alt 2 minus No Action  0 0 0 1-1 ng 18 - 24 Days Alt 2 minus No Action  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	in April Percent Change  0% 03% -33% in May Percent Change  in June Percent Change  0%	Alt 3  Alt 3	No Action	Percent Change  O% O-33%  Percent Change  O% O-30%  Percent Change  Percent Change  Percent Change  Percent Change  Percent Change
0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres 220,000 acres 220,000 acres 2,500 - 15,000 acres 15,000 - 20,000 acres 2,500 - 15,000 acres 15,000 - 20,000 acres 2,500 - 15,000 acres	No Action	Alt 1A  Alt 1A  O  O  O  O  O  O  O  O  O  O  O  O  O	Alt 1A minus No Action  0 0 0 0 1 -1  Alt 1A minus No Action  0 0 0 0 Alt 1A minus No Action  0 0 0 0 0 0 Alt 1A minus No Action  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Frequei Percent Change  0% 0% -33% Freque Percent Change	Alt 1B  Alt 1B  O  O  O  O  O  O  O  O  O  O  O  O  O	pass Habitat A Alt 1B minus No Action  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	rea Inundatio Percent Change  0% 0% -33% rea Inundatio Percent Change	Alt 2  O  O  I  Alt 2  O  O  I  Alt 2  O  O  O  O  O  Events Lastin  Alt 2  O  O  O  Events Lastin  Alt 2  O  O  O  O  D  O  O  D  Events Lastin  Alt 2  O  O  O  O  O  O  O  O  O  O  O  O  O	ng 18 - 24 Days Alt 2 minus No Action  0 0 0 1 1 ng 18 - 24 Days Alt 2 minus No Action  0 0 0 0 0 1 1 ng 18 - 24 Days Alt 2 minus No Action  0 0 0 1 1 1 0 0 0 0 1 1 1 0 0 0 0 0 0	in April Percent Change  0% 03% -33% in May Percent Change  in June Percent Change  0%  and the percent Change  and the percent Change  and the percent Change  becomes the percent Change  and the percent Change	Alt 3	No Action	Percent Change  O% O% -33%  Percent Change  O% O Percent Change  Percent Change  Percent Change  Percent Change

Table 4. Monthly Summary of Frequency of Yolo Bypass Habitat Area Inundation Events Lasting More Than 24 Days

Than 24 Days													
					f Yolo Bypass			nts Lasting M	ore Than 24 Da				
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,500 acres	2	2	. 0	0%	2	. (	0%	2			2	C	0%
2,500 - 15,000 acres	1	. 1			1		0%	1			1	C	0%
15,000 - 20,000 acres	0				0		-	0			0	C	
>20,000 acres	0	0	0	-	0	(	-	0	0	-	0	C	-
_				Frequency of	Yolo Bypass I	Habitat Area In	undation Even	ts Lasting Mo	re Than 24 Day	s in Novembe	r		
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,500 acres	4	4	0	0%	3	-1	-25%	4	. 0	0%	3	-1	-25%
2,500 - 15,000 acres	0	0	0	-	0	(	-	0	0	-	0	C	-
15,000 - 20,000 acres	0	0	0	-	0	C	-	0	0	-	0	C	-
>20,000 acres	0	0	0	-	0		-	0	0	-	0	C	) -
		•		Frequency of	Yolo Bypass I	labitat Area In	undation Ever	ts Lasting Mo	re Than 24 Day	s in Decembe	r		1
	<del>                                     </del>		Alt 1A minus	Percent	, , ,	Alt 1B minus	Percent	1	Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,500 acres	TVO ACCION	6	1	20%	6	1	. 20%	6		20%	6	1 Action	20%
2,500 - 15,000 acres	0				0			0			1	1	20/0
15,000 - 20,000 acres	1		. 0		1		-	1		-	1		0%
	1	1	. 0		1	. (		1			2	1	100%
>20,000 acres	1	1	. 0		f V-l- D		-				2		100%
	ļ		Table and it		T YOIO BYPASS			nts Lasting iv	ore Than 24 Da			141:0	In .
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,500 acres	10				10			10			9	-1	-10%
2,500 - 15,000 acres	1		+		1			1			1	C	
15,000 - 20,000 acres	6				6	(		6			6	С	
>20,000 acres	3	3	0		3	(	0%	3			3	C	0%
				Frequency of	f Yolo Bypass	Habitat Area Ir	undation Eve	nts Lasting Mo	ore Than 24 Da	ys in February			
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,500 acres	4	. 5	1	25%	5	. 1	. 25%	5	1	25%	5	1	25%
2,500 - 15,000 acres	1	1			1			1	. 0		1	C	
15,000 - 20,000 acres	6		-	17%	7	1	17%	7	1	17%	7	1	17%
>20,000 acres	2				2		-	2	. 0		2	C	
- 20,000 uci es		1			of Volo Bypas				Nore Than 24 D				, 0,0
		1	Alt 1A minus	Percent	I Tolo Bypus	Alt 1B minus	Percent	Lines Edisting is	Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
	NO ACTION	AILIA			AILIB	NO ACTION	<del></del>	AIL 2			AIL 3		
0 - 2,500 acres		/	0		,						,	C	
2,500 - 15,000 acres	2			50%	3		50%	3		50%	3	1	50%
15,000 - 20,000 acres	3			0%	3	(	0%	3	0	0%	3	C	
>20,000 acres									_				
	1	. 1	. 0		1			1			1	C	0%
		1		Frequency		ss Habitat Area	Inundation Ev		More Than 24 [	Days in April	1		
			Alt 1A minus	Frequency Percent	of Yolo Bypa	ss Habitat Area Alt 1B minus	Inundation Ev Percent	vents Lasting	More Than 24 [ Alt 2 minus	Percent	-	Alt 3 minus	Percent
Area Range	No Action	Alt 1A	Alt 1A minus No Action	Frequency Percent Change		Alt 1B minus No Action	Inundation Ex Percent Change	vents Lasting	More Than 24 D Alt 2 minus No Action	Percent Change	1 Alt 3	Alt 3 minus No Action	Percent Change
Area Range 0 - 2,500 acres	No Action	Alt 1A	Alt 1A minus No Action	Frequency Percent Change	of Yolo Bypa Alt 1B	Alt 1B minus No Action	Percent Change	vents Lasting Alt 2	More Than 24 D Alt 2 minus No Action	Percent Change	Alt 3	Alt 3 minus No Action	Percent Change
Area Range 0 - 2,500 acres 2,500 - 15,000 acres	No Action 1	Alt 1A 1	Alt 1A minus No Action 0	Frequency Percent Change 0%	of Yolo Bypa Alt 1B	ss Habitat Area Alt 1B minus No Action	Percent Change	Alt 2	More Than 24 D Alt 2 minus No Action 0	Percent Change	Alt 3 1	Alt 3 minus No Action	Percent Change
Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres	No Action	Alt 1A 1 0 0	Alt 1A minus No Action 0 0	Frequency Percent Change 0% -	of Yolo Bypa Alt 1B	Alt 1B minus No Action	Percent Change	Alt 2	More Than 24 D Alt 2 minus No Action 0 0	Percent Change	Alt 3	Alt 3 minus No Action	Percent Change 0 0%
Area Range 0 - 2,500 acres 2,500 - 15,000 acres	No Action 1	Alt 1A 1	Alt 1A minus No Action 0 0	Frequency Percent Change 0% 0%	of Yolo Bypa Alt 1B 1 0 0	Alt 1B minus No Action	Percent Change 0%	Alt 2  0 0 1	More Than 24 D Alt 2 minus No Action 0 0	Percent Change 0%	Alt 3 1	Alt 3 minus No Action	Percent Change 0 0%
Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres	No Action 1	Alt 1A 1 0 0	Alt 1A minus No Action 0 0	Frequency Percent Change 0% 0%	of Yolo Bypa Alt 1B 1 0 0	Alt 1B minus No Action	Percent Change 0%	Alt 2  0 0 1	More Than 24 D Alt 2 minus No Action 0 0	Percent Change 0%	Alt 3 1 0 0	Alt 3 minus No Action	Percent Change 0 0%
Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres	No Action 1	Alt 1A 1 0 0	Alt 1A minus No Action 0 0	Frequency Percent Change 0% 0%	of Yolo Bypa Alt 1B 1 0 0	Alt 1B minus No Action	Percent Change 0%	Alt 2  0 0 1	More Than 24 D Alt 2 minus No Action 0 0	Percent Change 0%	Alt 3 1 0 0	Alt 3 minus No Action	Percent Change 0 0%
Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres	No Action 1	Alt 1A 1 0 0	Alt 1A minus No Action 0 0	Frequency Percent Change 0% 0% Frequency	of Yolo Bypa Alt 1B 1 0 0	ss Habitat Area Alt 1B minus No Action  ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	Percent Change  0% - 0% 0% Inundation E	Alt 2  0 0 1	More Than 24 I Alt 2 minus No Action 0 0 0 More Than 24 I	Pays in April Percent Change 0% - 0% Oays in May	Alt 3 1 0 0	Alt 3 minus No Action	Percent Change 0 0% 0 - 0 - 0 0%
Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres >20,000 acres	No Action 1 0 0 1 1	Alt 1A 1 0 0 0 1	Alt 1A minus No Action 0 0 0 Alt 1A minus	Frequency Percent Change 0% - 0% Frequency Percent Change	of Yolo Bypa  Alt 1B  1  0  0  1  of Yolo Bypa	ss Habitat Area Alt 1B minus No Action  ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	Inundation Every E	vents Lasting land land land land land land land land	More Than 24 E Alt 2 minus No Action 0 0 0 0 More Than 24 E Alt 2 minus No Action	Days in April Percent Change 0% - 0% Osys in May Percent Change	Alt 3 1 0 0 1	Alt 3 minus No Action	Percent Change 0% 0- 0 0% 0 0% Percent Change
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Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres >20,000 acres Area Range 0 - 2,500 acres 2,500 - 15,000 acres	No Action 1 0 0 1 1	Alt 1A 1 0 0 1 1 1 Alt 1A 2 1 1	Alt 1A minus No Action  0 0 0 0 Alt 1A minus No Action  Alt 1A minus No Action 0 0	Frequency Percent Change  0%  - 0%  Frequency Percent Change  0%  0%	of Yolo Bypa  Alt 1B  1 0 0 1 of Yolo Bypa  Alt 1B	ss Habitat Area Alt 1B minus No Action  ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	Inundation Events of the second of the secon	Alt 2  Alt 2  0 0 1 vents Lasting Alt 2	More Than 24 I Alt 2 minus No Action  0 0 0 More Than 24 I Alt 2 minus No Action  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Percent Change  0%  0%  0%  0%  Oays in May Percent Change  0%  0%  0%  0%  0%	Alt 3 1 0 0 1	Alt 3 minus No Action	Percent   Change   0%   0
Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres >20,000 acres Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres	No Action 1 0 0 1 1 No Action 2 1	Alt 1A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Alt 1A minus No Action  0 0 0 0 Alt 1A minus No Action 0 0 0 0 0 0 0 0 0 0 0	Frequency Percent Change  0%  0% Frequency Percent Change  0%	of Yolo Bypa  Alt 1B  1 0 0 1 of Yolo Bypa  Alt 1B  2 1 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	ss Habitat Area Alt 1B minus No Action  () () () () () () () () () () () () ()	Inundation Every Percent Change 0% 0% Inundation Every Change Percent Change 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	Alt 2  Alt 2  O  O  vents Lasting  Alt 2  Alt 2  Alt 2  Alt 2  Alt 2	More Than 24 I Alt 2 minus No Action  0 0 0 0 More Than 24 I Alt 2 minus No Action 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Days in April Percent Change  0% 0% Days in May Percent Change  0% 0%	Alt 3 1 0 0 1 1 Alt 3 2 1	Alt 3 minus No Action  C C C C Alt 3 minus No Action	Percent Change
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Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres >20,000 acres  Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres >20,000 acres	No Action 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Alt 1A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Alt 1A minus No Action  0 0 0 0 Alt 1A minus No Action  0 0 Alt 1A minus Alt 1A minus Alt 1A minus	Frequency Percent Change  0%  0% Frequency Percent Change  0%  Frequency Percent Percent	of Yolo Bypa Alt 1B  1 00 00 1 of Yolo Bypa Alt 1B 2 1 0 0 0 0 7 of Yolo Bypa	ss Habitat Area Alt 1B minus No Action  () () () () () () () () () () () () ()	Inundation Every Change  O%  O%  Inundation Every Change	Alt 2  Alt 2  O  O  Alt 2  Alt 2  1  O  O  I  O  O  O  O  O  O  O  O  O  O	More Than 24 I Alt 2 minus No Action  0 0 0 0 More Than 24 I Alt 2 minus No Action  0 0 More Than 24 I Alt 2 minus O 0 0 0 More Than 24 I Alt 2 minus	ays in April Percent Change  0%  0%  Osays in May Percent Change  0%  Osays in June Percent	Alt 3  1 0 0 1 1  Alt 3  2 1 0 0 0 0 0 1	Alt 3 minus No Action  C C C C C Alt 3 minus No Action  C C C C C C C C C C C C C C C C C C	Percent Change 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0%
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Area Range  0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres >20,000 acres >20,000 acres >20,000 acres  Area Range 0 - 2,500 acres 15,000 - 20,000 acres >20,000 acres  Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres 15,000 - 20,000 acres 2,500 - 15,000 acres 15,000 - 20,000 acres 220,000 acres Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres >20,000 acres 15,000 - 20,000 acres 15,000 - 20,000 acres >20,000 acres Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres 15,000 - 20,000 acres	No Action	Alt 1A	Alt 1A minus No Action	Frequency Percent Change  0%  0% Frequency Percent Change  0%  Frequency Percent Change  13%  Frequency Percent Change  0%	of Yolo Bypa  Alt 1B  1 0 0 0 1 of Yolo Bypa  Alt 1B  2 1 0 0 of Yolo Bypa  Alt 1B  2 1 0 0 of Yolo Bypa  Alt 1B  2 1 0 0 of Yolo Bypa  Alt 1B  2 1 0 0 0 of Yolo Bypa  Alt 1B  2 1 0 0 0 0 of Yolo Bypa  Alt 1B  2 7 0 0 0 0 7 Of Yolo Bypass H	ss Habitat Area Alt 1B minus No Action  (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Inundation Even  Percent Change  0% Inundation Even Percent Change  0% Inundation Even Percent Change  0% Inundation Even Percent Change  0% Inundation Even Percent Change  0% Inundation Even Percent Change	Alt 2  Alt 2  1  0  0  1  vents Lasting  Alt 2  2  1  0  0  vents Lasting  Alt 2  Alt 2  Alt 2  Alt 2  Alt 2  Alt 2  O  vents Lasting  Alt 2	More Than 24 E Alt 2 minus No Action  0 0 0 0 0 More Than 24 E Alt 2 minus No Action  0 0 More Than 24 E Alt 2 minus No Action  1 0 More Than 24 E Alt 2 minus No Action  0 0 More Than 24 E Alt 2 minus No Action  0 0 0 More Than 24 E Alt 2 minus No Action  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Days in August Percent Change  0%  0% Days in May Percent Change  0%  0% Days in June Percent Change  13%  Days in July Percent Change  0%	Alt 3	Alt 3 minus No Action  Alt 3 minus No Action  C C C C C C C C C C C C C C C C C C	Percent Change  O%  Percent Change  O%  Percent Change  O%  O%  Percent Change  Percent Change
Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres >20,000 acres >20,000 acres  Area Range 0 - 2,500 acres 2,500 - 15,000 acres >20,000 acres >20,000 acres  Area Range 0 - 2,500 acres 15,000 - 20,000 acres 15,000 - 20,000 acres 15,000 - 20,000 acres 15,000 - 20,000 acres 2,500 - 15,000 acres 2,500 - 15,000 acres 15,000 - 20,000 acres 2,500 - 15,000 acres 15,000 - 20,000 acres >20,000 acres 15,000 - 20,000 acres >20,000 acres 15,000 - 20,000 acres >20,000 acres Area Range 0 - 2,500 acres 2,500 - 15,000 acres >20,000 acres >20,000 acres	No Action  1	Alt 1A	Alt 1A minus No Action	Frequency Percent Change  0%  Frequency Percent Change  0%  Frequency Percent Change  13%  Frequency Percent Change  13%  Frequency Percent Change  13%  Frequency Percent Change  13%  Frequency Percent Change  7%  Frequency of Percent Change  7%	of Yolo Bypa  Alt 1B  1 00 00 1 of Yolo Bypa  Alt 1B  2 1 00 00 of Yolo Bypa  Alt 1B  2 Alt 1B  2 1 00 00 of Yolo Bypa  Alt 1B  2 1 00 00 of Yolo Bypa  Alt 1B  2 1 00 00 of Yolo Bypas  Alt 1B  2 1 00 00 of Yolo Bypas  Alt 1B  2 7 00 00 00 Volo Bypass H	ss Habitat Area Alt 1B minus No Action  (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Inundation Even Percent Change  0% Inundation E Inunda	Alt 2	More Than 24 I Alt 2 minus No Action  0 0 0 0 0 More Than 24 I Alt 2 minus No Action  0 0 More Than 24 I Alt 2 minus No Action  1 0 More Than 24 I Alt 2 minus No Action  0 0 More Than 24 I Alt 2 minus No Action  0 0 Alt 2 minus No Action  0 0 Core Than 24 I Alt 2 minus No Action  0 0 Alt 2 minus No Action  0 0 Core Than 24 I Alt 2 minus No Action  1 Alt 2 minus No Action  0 Alt 2 minus No Action  1 Alt 2 minus No Action	Days in August Percent Change  0%  0%  0%  0%  0%  0%  0%  0%  0%  0	Alt 3	Alt 3 minus No Action  Alt 3 minus No Action  C C C C C C C C C C C C C C C C C C	Percent Change  O% Percent Change O%
Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres >20,000 acres >20,000 acres  Area Range 0 - 2,500 acres 15,000 - 20,000 acres >20,000 acres  Area Range 0 - 2,500 acres 2,500 - 15,000 acres >20,000 acres  Area Range 0 - 2,500 acres >20,000 acres >20,000 acres >20,000 acres  Area Range 0 - 2,500 acres 15,000 - 20,000 acres 15,000 - 20,000 acres 15,000 - 20,000 acres >20,000 acres  Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres >20,000 acres  Area Range 0 - 2,500 acres 2,500 - 15,000 acres  Area Range 0 - 2,500 acres 2,500 - 15,000 acres	No Action 1 1 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0	Alt 1A	Alt 1A minus No Action	Frequency Percent Change  0%  Frequency Percent Change  0%  Frequency Percent Change  13%  Frequency Percent Change  0%  Frequency Percent Change  Frequency Percent Change  7%	of Yolo Bypa  Alt 1B  1 00 0 1 1 of Yolo Bypa  Alt 1B  2 1 0 0 0 of Yolo Bypas  Alt 1B  21 0 0 0 of Yolo Bypas  Alt 1B  21 0 0 0 7 Of Yolo Bypas  Alt 1B  21 0 0 0 7 Of Yolo Bypas  Alt 1B  21 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ss Habitat Area Alt 1B minus No Action  Compared to the state of the s	Inundation Even Percent Change	Alt 2  Alt 3  Alt 4  Alt 5  Alt 5  Alt 6  Alt 7  Alt 7  Alt 8  Alt 9  Alt 9  Alt 9  Alt 9  Alt 1	More Than 24 II Alt 2 minus No Action  0 0 0 0 0 0 0 0 0 More Than 24 II Alt 2 minus No Action  0 0 0 0 More Than 24 II Alt 2 minus No Action  1 0 0 More Than 24 II Alt 2 minus No Action  0 0 More Than 24 II Alt 2 minus No Action  0 0 0 More Than 24 II Alt 2 minus No Action  0 0 0 0 II	Days in June Percent Change  0%  0% Days in May Percent Change  0%  0%  0%  0%  0%  0%  0%  0%  0%  0	Alt 3  Alt 3	Alt 3 minus No Action  Alt 3 minus No Action  C C C C C C C C C C C C C C C C C C	Percent Change  O% O% Percent Change O%
Area Range 0 - 2,500 acres 2,500 - 15,000 acres 15,000 - 20,000 acres >20,000 acres >20,000 acres  Area Range 0 - 2,500 acres 2,500 - 15,000 acres >20,000 acres >20,000 acres  Area Range 0 - 2,500 acres 15,000 - 20,000 acres 15,000 - 20,000 acres 15,000 - 20,000 acres 15,000 - 20,000 acres 2,500 - 15,000 acres 2,500 - 15,000 acres 15,000 - 20,000 acres 2,500 - 15,000 acres 15,000 - 20,000 acres >20,000 acres 15,000 - 20,000 acres >20,000 acres 15,000 - 20,000 acres >20,000 acres Area Range 0 - 2,500 acres 2,500 - 15,000 acres >20,000 acres >20,000 acres	No Action  1	Alt 1A	Alt 1A minus No Action	Frequency Percent Change  0% Frequency Percent Change  0% Frequency Percent Change  13% Frequency Percent Change  0% Frequency Percent Change	of Yolo Bypa  Alt 1B  1 00 00 1 of Yolo Bypa  Alt 1B  2 1 00 00 of Yolo Bypa  Alt 1B  2 Alt 1B  2 1 00 0 of Yolo Bypa  Alt 1B  2 1 0 0 0 of Yolo Bypa  Alt 1B  2 1 0 0 0 0 Of Yolo Bypas  Alt 1B  2 7 0 0 0 0 Volo Bypass H	ss Habitat Area Alt 1B minus No Action  (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Inundation Even Percent Change  O% Inundation Even Percent Change	Alt 2	More Than 24 II Alt 2 minus No Action  0 0 0 0 0 More Than 24 II Alt 2 minus No Action  0 0 More Than 24 II Alt 2 minus No Action  1 0 0 More Than 24 II Alt 2 minus No Action  0 0 More Than 24 II Alt 2 minus No Action  0 0 II O O O O O O O O O O O O O O O O	Days in August Percent Change  0%  0% Days in May Percent Change  0%  0%  Days in June Percent Change  13%  - Days in July Percent Change  - Sin Septembe Percent Change  7%  - 7%	Alt 3	Alt 3 minus No Action  C C C C C C C C C C C C C C C C C C	Percent   Change   0

Figure 2. Average Annual Yolo Bypass Habitat Area Inundation Events.

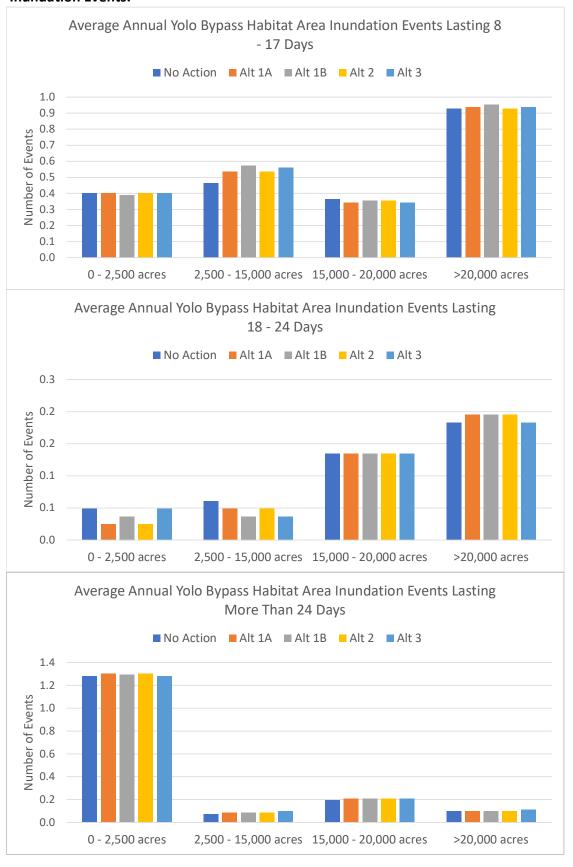


Table 5. Average Annual Yolo Bypass Habitat Area Inundation Events.

Table 5. Average	Allilual 10	io bypass i	iabilal Area	imunuatio	n events.								
				Ave	rage Annual Y	olo Bypass Hab	itat Area Inur	dation Events	Lasting 8 - 17 [	Days			
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,500 acres	0.40	0.40	0.00	0%	0.39	-0.01	-3%	0.40	0.00	0%	0.40	0.00	0%
2,500 - 15,000 acres	0.46	0.54	0.07	16%	0.57	0.11	24%	0.54	0.07	16%	0.56	0.10	21%
15,000 - 20,000 acres	0.37	0.34	-0.02	-7%	0.35	-0.01	-3%	0.35	-0.01	-3%	0.34	-0.02	-7%
>20,000 acres	0.93	0.94	0.01	1%	0.95	0.02	3%	0.93	0.00	0%	0.94	0.01	1%
•				Avei	rage Annual Y	olo Bypass Hab	itat Area Inun	dation Events	Lasting 18 - 24	Days			
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,500 acres	0.05	0.02	-0.02	-50%	0.04	-0.01	-25%	0.02	-0.02	-50%	0.05	0.00	0%
2,500 - 15,000 acres	0.06	0.05	-0.01	-20%	0.04	-0.02	-40%	0.05	-0.01	-20%	0.04	-0.02	-40%
15,000 - 20,000 acres	0.13	0.13	0.00	0%	0.13	0.00	0%	0.13	0.00	0%	0.13	0.00	0%
>20,000 acres	0.18	0.20	0.01	7%	0.20	0.01	7%	0.20	0.01	7%	0.18	0.00	0%
				Average	Annual Yolo	Bypass Habitat	Area Inundati	on Events Las	ting More Than	24 Days	_		
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,500 acres	1.28	1.30	0.02	2%	1.29	0.01	1%	1.30	0.02	2%	1.28	0.00	0%
2,500 - 15,000 acres	0.07	0.09	0.01	17%	0.09	0.01	17%	0.09	0.01	17%	0.10	0.02	33%
15,000 - 20,000 acres	0.20	0.21	0.01	6%	0.21	0.01	6%	0.21	0.01	6%	0.21	0.01	. 6%
>20,000 acres	0.10	0.10	0.00	0%	0.10	0.00	0%	0.10	0.00	0%	0.11	0.01	. 13%

<sup>\*</sup>Based on total events in 82 year simulation period.

										v Magnitude Spill Results										
Number of years that contain events with		> 0 da	ys			>10 da	ys			> 20 da	ys			> 30 da	ys			> 45 da	ys	
consecutive days of spills (max 7 day																				
gap to count as new event)	No Action Alternative	Alternative 1A		rence	No Action Alternative	Alternative 1A	Diffe	erence	No Action Alternative	Alternative 1A	Diffe	erence	No Action Alternative	Alternative 1A	Diff	erence	No Action Alternative	Alternative 1A	Diff	erence
> 0 cfs	67	65	-2	-3.0%	44	44	0	0.0%	30	29	-1	-3.3%	22	21	-1	-4.5%	8	7	-1	-12.5%
> 1,000 cfs	65	64	-1	-1.5%	44	44	0	0.0%	30	29	-1	-3.3%	19	19	0	0.0%	8	7	-1	-12.5%
> 2,000 cfs	61	61	0	0.0%	44	44	0	0.0%	28	26	-2	-7.1%	18	16	-2	-11.1%	6	5	-1	-16.7%
> 3,000 cfs	59	58	-1	-1.7%	43	42	-1	-2.3%	26	23	-3	-11.5%	15	14	-1	-6.7%	5	4	-1	-20.0%
> 4,000 cfs	59	58	-1	-1.7%	42	39	-3	-7.1%	24	21	-3	-12.5%	15	14	-1	-6.7%	5	4	-1	-20.0%
> 6,000 cfs	54	53	-1	-1.9%	38	37	-1	-2.6%	20	20	0	0.0%	12	11	-1	-8.3%	4	3	-1	-25.0%
> 8,000 cfs	53	51	-2	-3.8%	36	32	-4	-11.1%	19	19	0	0.0%	10	10	0	0.0%	3	2	-1	-33.3%
> 10,000 cfs	50	49	-1	-2.0%	32	30	-2	-6.3%	17	17	0	0.0%	10	9	-1	-10.0%	2	2	0	0.0%

					Ta	able 1b. Co				v Magnitude ternative 1A					and 2003	3				
Number of years that		> 0 day	/S			>10 da	ys			> 20 da	ys			> 30 da	ıys			> 45 da	iys	
contain events with consecutive days of spills (max 7 day gap to count as new	No Action				No Action					Alternative			No Action	Alternative				Alternative		
event)	Alternative	1A	Diffe	rence	Alternative	1A	Diffe	rence	Alternative	1A	Diffe	erence	Alternative	1A	Diffe	erence	Alternative	1A	Diff	erence
> 0 cfs	71	70	-1	-1.4%	50	50	0	0.0%	38	37	-1	-2.6%	26	25	-1	-3.8%	15	13	-2	-13.3%
> 1,000 cfs	70	70	0	0.0%	49	47	-2	-4.1%	37	34	-3	-8.1%	25	25	0	0.0%	14	13	-1	-7.1%
> 2,000 cfs	69	68	-1	-1.4%	48	45	-3	-6.3%	34	33	-1	-2.9%	23	22	-1	-4.3%	13	12	-1	-7.7%
> 3,000 cfs	68	68	0	0.0%	46	45	-1	-2.2%	32	31	-1	-3.1%	22	22	0	0.0%	13	11	-2	-15.4%
> 4,000 cfs	67	65	-2	-3.0%	44	44	0	0.0%	31	28	-3	-9.7%	22	21	-1	-4.5%	10	7	-3	-30.0%
> 6,000 cfs	62	62	0	0.0%	44	43	-1	-2.3%	29	27	-2	-6.9%	20	20	0	0.0%	8	7	-1	-12.5%
> 8,000 cfs	59	58	-1	-1.7%	42	42	0	0.0%	25	24	-1	-4.0%	17	15	-2	-11.8%	5	4	-1	-20.0%
> 10,000 cfs	57	56	-1	-1.8%	41	40	-1	-2.4%	24	21	-3	-12.5%	15	14	-1	-6.7%	4	4	0	0.0%

\*Total Weir Spill Results include spills from Ord Ferry, Moulton Weir, Colusa Weir, and Tisdale Weir.

					Т					/ Magnitude s - Alternativ					ınd 2003					
Number of years that		> 0 day	ys			>10 da	ys			> 20 da	ys			> 30 da	ys			> 45 da	ys	
contain events with consecutive days of spills (max 7 day gap to count as new		Alternative			No Action	Alternative			No Action	Alternative			No Action	Alternative			No Action	Alternative		
event)	Alternative	1A	Diffe	rence	Alternative	1A	Diffe	erence	Alternative	1A	Diffe	erence	Alternative	1A	Diffe	rence	Alternative	1A	Diff	erence
> 0 cfs	82	82	0	0.0%	82	82	0	0.0%	82	82	0	0.0%	82	82	0	0.0%	82	82	0	0.0%
> 1,000 cfs	81	81	0	0.0%	76	76	0	0.0%	69	69	0	0.0%	60	60	0	0.0%	47	47	0	0.0%
> 2,000 cfs	81	81	0	0.0%	67	67	0	0.0%	52	52	0	0.0%	41	41	0	0.0%	33	33	0	0.0%
> 3,000 cfs	81	81	0	0.0%	62	60	-2	-3.2%	49	48	-1	-2.0%	38	37	-1	-2.6%	24	23	-1	-4.2%
> 4,000 cfs	80	80	0	0.0%	59	58	-1	-1.7%	46	46	0	0.0%	32	31	-1	-3.1%	19	19	0	0.0%
> 6,000 cfs	76	76	0	0.0%	55	54	-1	-1.8%	40	38	-2	-5.0%	26	26	0	0.0%	13	13	0	0.0%
> 8,000 cfs	73	73	0	0.0%	47	47	0	0.0%	35	33	-2	-5.7%	23	22	-1	-4.3%	11	10	-1	-9.1%
> 10,000 cfs	68	68	0	0.0%	46	45	-1	-2.2%	33	30	-3	-9.1%	22	22	0	0.0%	9	8	-1	-11.1%

										/ Magnitude										
Number of years that contain events with consecutive days of spills (max 7 day		> 0 day	/S		N- A-di	>10 da	ys		No Action	ys		Na Aadiaa	> 30 da	ys		No Action	> 45 da	ys		
gap to count as new event)	Alternative	Alternative 1B	Diffe	rence	Alternative		Diffe	rence	Alternative		Diff	erence	Alternative		Diff	erence	Alternative		Diff	erence
> 0 cfs	67	65	-2	-3.0%	44	44	0	0.0%	30	29	-1	-3.3%	22	21	-1	-4.5%	8	8	0	0.0%
> 1,000 cfs	65	64	-1	-1.5%	44	44	0	0.0%	30	29	-1	-3.3%	19	19	0	0.0%	8	8	0	0.0%
> 2,000 cfs	61	61	0	0.0%	44	44	0	0.0%	28	25	-3	-10.7%	18	16	-2	-11.1%	6	5	-1	-16.7%
> 3,000 cfs	59	58	-1	-1.7%	43	42	-1	-2.3%	26	23	-3	-11.5%	15	14	-1	-6.7%	5	4	-1	-20.0%
> 4,000 cfs	59	58	-1	-1.7%	42	39	-3	-7.1%	24	20	-4	-16.7%	15	14	-1	-6.7%	5	4	-1	-20.0%
> 6,000 cfs	54	53	-1	-1.9%	38	37	-1	-2.6%	20	19	-1	-5.0%	12	10	-2	-16.7%	4	3	-1	-25.0%
> 8,000 cfs	53	51	-2	-3.8%	36	32	-4	-11.1%	19	19	0	0.0%	10	10	0	0.0%	3	3	0	0.0%
> 10,000 cfs	50	49	-1	-2.0%	32	31	-1	-3.1%	17	17	0	0.0%	10	9	-1	-10.0%	2	2	0	0.0%

					Т		Total V			v Magnitude ternative 1B	Compar			native		1				
Number of years that contain events with consecutive days of spills (max 7 day gap to count as new event)		> 0 day		rence	No Action	>10 da		erence	No Action	> 20 da		erence	No Action	> 30 da		erence	No Action		,	erence
> 0 cfs	71	71	0	0.0%	50	50	0	0.0%	38	37	-1	-2.6%	26	25	-1	-3.8%	15	13	-2	-13.3%
> 1,000 cfs	70	71	1	1.4%	49	46	-3	-6.1%	37	35	-2	-5.4%	25	24	-1	-4.0%	14	13	-1	-7.1%
> 2,000 cfs	69	69	0	0.0%	48	46	-2	-4.2%	34	34	0	0.0%	23	22	-1	-4.3%	13	12	-1	-7.7%
> 3,000 cfs	68	68	0	0.0%	46	46	0	0.0%	32	32	0	0.0%	22	22	0	0.0%	13	10	-3	-23.1%
> 4,000 cfs	67	65	-2	-3.0%	44	44	0	0.0%	31	28	-3	-9.7%	22	21	-1	-4.5%	10	8	-2	-20.0%
> 6,000 cfs	62	62	0	0.0%	44	42	-2	-4.5%	29	26	-3	-10.3%	20	19	-1	-5.0%	8	8	0	0.0%
> 8,000 cfs	59	59	0	0.0%	42	42	0	0.0%	25	24	-1	-4.0%	17	15	-2	-11.8%	5	4	-1	-20.0%
> 10,000 cfs	57	56	-1	-1.8%	41	41	0	0.0%	24	21	-3	-12.5%	15	14	-1	-6.7%	4	4	0	0.0%

\*Total Weir Spill Results include spills from Ord Ferry, Moulton Weir, Colusa Weir, and Tisdale Weir.

					Т					/ Magnitude s - Alternativ				ween 1922 a Alternative	ınd 2003					
Number of years that contain events with consecutive days of spills (max 7 day		> 0 day	/S			>10 da	ys			> 20 da	ys			> 30 da	ys			> 45 da	ys	
gap to count as new	No Action	Alternative			No Action	Alternative			No Action	Alternative			No Action	Alternative			No Action	Alternative		
event)	Alternative	1B	Diffe	rence	Alternative	1B	Diffe	erence	Alternative	1B	Diffe	erence	Alternative	1B	Diffe	rence	Alternative	1B	Diff	erence
> 0 cfs	82	82	0	0.0%	82	82	0	0.0%	82	82	0	0.0%	82	82	0	0.0%	82	82	0	0.0%
> 1,000 cfs	81	81	0	0.0%	76	76	0	0.0%	69	69	0	0.0%	60	61	1	1.7%	47	47	0	0.0%
> 2,000 cfs	81	81	0	0.0%	67	68	1	1.5%	52	52	0	0.0%	41	41	0	0.0%	33	33	0	0.0%
> 3,000 cfs	81	81	0	0.0%	62	60	-2	-3.2%	49	48	-1	-2.0%	38	37	-1	-2.6%	24	23	-1	-4.2%
> 4,000 cfs	80	80	0	0.0%	59	58	-1	-1.7%	46	46	0	0.0%	32	32	0	0.0%	19	19	0	0.0%
> 6,000 cfs	76	76	0	0.0%	55	54	-1	-1.8%	40	38	-2	-5.0%	26	26	0	0.0%	13	13	0	0.0%
> 8,000 cfs	73	73	0	0.0%	47	48	1	2.1%	35	33	-2	-5.7%	23	22	-1	-4.3%	11	10	-1	-9.1%
> 10.000 cfs	68	68	0	0.0%	46	45	-1	-2.2%	33	30	-3	-9.1%	22	22	0	0.0%	9	8	-1	-11.1%

						able 3a. Co				-										
		> 0 da	10		0	rd Ferry, Mo >10 da		eir, and C	olusa Weir (	pill Results > 20 da		ative 2 Co	mpared to I	No Action A > 30 da		re	l	> 45 da		
Number of years that contain events with consecutive days of spills (max 7 day gap to count as new	No Action		ys .		No Action	Alternative	ys		No Action	> 20 da	ys		No Action	Alternative	lys		No Action	Alternative	ys	
event)	Alternative	2	Diffe	rence	Alternative	2	Diffe	rence	Alternative	2	Diffe	erence	Alternative	2	Diff	erence	Alternative	2	Diffe	erence
> 0 cfs	67	65	-2	-3.0%	44	44	0	0.0%	30	29	-1	-3.3%	22	21	-1	-4.5%	8	7	-1	-12.5%
> 1,000 cfs	65	64	-1	-1.5%	44	44	0	0.0%	30	29	-1	-3.3%	19	19	0	0.0%	8	7	-1	-12.5%
> 2,000 cfs	61	61	0	0.0%	44	44	0	0.0%	28	26	-2	-7.1%	18	16	-2	-11.1%	6	5	-1	-16.7%
> 3,000 cfs	59	58	-1	-1.7%	43	42	-1	-2.3%	26	23	-3	-11.5%	15	14	-1	-6.7%	5	4	-1	-20.0%
> 4,000 cfs	59	58	-1	-1.7%	42	39	-3	-7.1%	24	21	-3	-12.5%	15	14	-1	-6.7%	5	4	-1	-20.0%
> 6,000 cfs	54	53	-1	-1.9%	38	37	-1	-2.6%	20	20	0	0.0%	12	12	0	0.0%	4	3	-1	-25.0%
> 8,000 cfs	53	51	-2	-3.8%	36	32	-4	-11.1%	19	19	0	0.0%	10	10	0	0.0%	3	2	-1	-33.3%
> 10,000 cfs	50	49	-1	-2.0%	32	30	-2	-6.3%	17	17	0	0.0%	10	9	-1	-10.0%	2	2	0	0.0%

					Т	able 3b. Co							esholds Bet ction Altern		and 2003	3				
Number of years that contain events with consecutive days of spills (max 7 day gap to count as new	No Action	> 0 day				>10 da				> 20 da				> 30 da				> 45 da		
event)	Alternative	2	Diffe	rence	Alternative	2	Diffe	erence	Alternative	2	Diffe	rence	Alternative	2	Diffe	erence	Alternative	2	Diffe	erence
> 0 cfs	71	70	-1	-1.4%	50	50	0	0.0%	38	36	-2	-5.3%	26	25	-1	-3.8%	15	14	-1	-6.7%
> 1,000 cfs	70	70	0	0.0%	49	47	-2	-4.1%	37	34	-3	-8.1%	25	25	0	0.0%	14	13	-1	-7.1%
> 2,000 cfs	69	68	-1	-1.4%	48	45	-3	-6.3%	34	33	-1	-2.9%	23	22	-1	-4.3%	13	12	-1	-7.7%
> 3,000 cfs	68	68	0	0.0%	46	45	-1	-2.2%	32	31	-1	-3.1%	22	22	0	0.0%	13	12	-1	-7.7%
> 4,000 cfs	67	65	-2	-3.0%	44	44	0	0.0%	31	28	-3	-9.7%	22	21	-1	-4.5%	10	7	-3	-30.0%
> 6,000 cfs	62	62	0	0.0%	44	43	-1	-2.3%	29	27	-2	-6.9%	20	19	-1	-5.0%	8	7	-1	-12.5%
> 8,000 cfs	59	58	-1	-1.7%	42	42	0	0.0%	25	24	-1	-4.0%	17	15	-2	-11.8%	5	4	-1	-20.0%
> 10,000 cfs	57	56	-1	-1.8%	41	40	-1	-2.4%	24	21	-3	-12.5%	15	14	-1	-6.7%	4	4	0	0.0%

\*Total Weir Spill Results include spills from Ord Ferry, Moulton Weir, Colusa Weir, and Tisdale Weir.

						То	tal Sutte			v Magnitude s - Alternati	ve 2 Cor			Alternative		}				
Number of years that contain events with consecutive days of spills (max 7 day gap to count as new event)		> 0 da		erence	No Action Alternative			erence	No Action Alternative	> 20 da		erence	No Action Alternative	> 30 da		erence	No Action Alternative	> 45 da		erence
> 0 cfs	82	82	0	0.0%	82	82	0	0.0%	82	82	0	0.0%	82	82	0	0.0%	82	82	0	0.0%
> 1,000 cfs	81	81	0	0.0%	76	76	0	0.0%	69	69	0	0.0%	60	60	0	0.0%	47	47	0	0.0%
> 2,000 cfs	81	81	0	0.0%	67	67	0	0.0%	52	52	0	0.0%	41	41	0	0.0%	33	33	0	0.0%
> 3,000 cfs	81	81	0	0.0%	62	60	-2	-3.2%	49	48	-1	-2.0%	38	37	-1	-2.6%	24	23	-1	-4.2%
> 4,000 cfs	80	80	0	0.0%	59	58	-1	-1.7%	46	46	0	0.0%	32	31	-1	-3.1%	19	19	0	0.0%
> 6,000 cfs	76	76	0	0.0%	55	54	-1	-1.8%	40	38	-2	-5.0%	26	26	0	0.0%	13	13	0	0.0%
> 8,000 cfs	73	73	0	0.0%	47	47	0	0.0%	35	33	-2	-5.7%	23	22	-1	-4.3%	11	10	-1	-9.1%
> 10.000 cfs	68	68	0	0.0%	46	45	-1	-2.2%	33	30	-3	-9.1%	22	22	0	0.0%	9	9	0	0.0%

													esholds Bet							
					0	rd Ferry, Mo	oulton W	eir, and C	olusa Weir (	Spill Results	- Altern	ative 3 Co	mpared to	No Action A	Iternativ	re e				
Number of years that		> 0 day	/S			>10 da	ys			> 20 da	ys			> 30 da	ıys			> 45 da	ys	
contain events with																				ļ
consecutive days of																				ļ
spills (max 7 day gap																				ļ
to count as new	No Action	Alternative			No Action	Alternative			No Action	Alternative			No Action	Alternative			No Action	Alternative		ļ
event)	Alternative	3	Diffe	rence	Alternative	3	Diffe	rence	Alternative	3	Diffe	erence	Alternative	3	Diffe	erence	Alternative	3	Diffe	erence
> 0 cfs	67	66	-1	-1.5%	44	44	0	0.0%	30	29	-1	-3.3%	22	20	-2	-9.1%	8	8	0	0.0%
> 1,000 cfs	65	65	0	0.0%	44	44	0	0.0%	30	28	-2	-6.7%	19	19	0	0.0%	8	8	0	0.0%
> 2,000 cfs	61	61	0	0.0%	44	44	0	0.0%	28	25	-3	-10.7%	18	16	-2	-11.1%	6	6	0	0.0%
> 3,000 cfs	59	59	0	0.0%	43	41	-2	-4.7%	26	22	-4	-15.4%	15	14	-1	-6.7%	5	4	-1	-20.0%
> 4,000 cfs	59	59	0	0.0%	42	38	-4	-9.5%	24	20	-4	-16.7%	15	14	-1	-6.7%	5	4	-1	-20.0%
> 6,000 cfs	54	54	0	0.0%	38	36	-2	-5.3%	20	19	-1	-5.0%	12	10	-2	-16.7%	4	3	-1	-25.0%
> 8,000 cfs	53	51	-2	-3.8%	36	32	-4	-11.1%	19	19	0	0.0%	10	10	0	0.0%	3	3	0	0.0%
> 10,000 cfs	50	49	-1	-2.0%	32	31	-1	-3.1%	17	17	0	0.0%	10	9	-1	-10.0%	2	2	0	0.0%

					Т		Total			v Magnitude Iternative 3				ative		3				
Number of years that contain events with consecutive days of spills (max 7 day gap to count as new event)				rence	No Action	>10 da		erence	No Action	> 20 da		erence	No Action	> 30 da		erence	No Action	> 45 da		erence
> 0 cfs	71	71	0	0.0%	50	51	1	2.0%	38	36	-2	-5.3%	26	24	-2	-7.7%	15	13	-2	-13.3%
> 1,000 cfs	70	71	1	1.4%	49	47	-2	-4.1%	37	36	-1	-2.7%	25	24	-1	-4.0%	14	13	-1	-7.1%
> 2,000 cfs	69	69	0	0.0%	48	47	-1	-2.1%	34	34	0	0.0%	23	22	-1	-4.3%	13	11	-2	-15.4%
> 3,000 cfs	68	69	1	1.5%	46	47	1	2.2%	32	32	0	0.0%	22	22	0	0.0%	13	9	-4	-30.8%
> 4,000 cfs	67	66	-1	-1.5%	44	45	1	2.3%	31	28	-3	-9.7%	22	20	-2	-9.1%	10	8	-2	-20.0%
> 6,000 cfs	62	62	0	0.0%	44	43	-1	-2.3%	29	26	-3	-10.3%	20	20	0	0.0%	8	7	-1	-12.5%
> 8,000 cfs	59	59	0	0.0%	42	42	0	0.0%	25	23	-2	-8.0%	17	15	-2	-11.8%	5	4	-1	-20.0%
> 10,000 cfs	57	58	1	1.8%	41	40	-1	-2.4%	24	20	-4	-16.7%	15	14	-1	-6.7%	4	4	0	0.0%

7 10,000 010	ō	0		1.070		.0		2.170	
*Total Weir Spill Result	s include spill	s from Ord Fe	erry, Moulto	on Weir, Col	lusa Weir, and	d Tisdale Wei	r.		

L		> 0 da	we		ī	To	tal Sutte			v Magnitude ts - Alternati > 20 da	ve 3 Cor						1	> 45 da	we.	
Number of years that contain events with consecutive days of spills (max 7 day gap to count as new event)		Alternative		ence	No Action Alternative	>10 da		erence	No Action Alternative	Alternative		erence	No Action Alternative	Alternative		erence	No Action Alternative	Alternative	•	erence
> 0 cfs	82	82	0	0.0%	82	82	0	0.0%	82	82	0	0.0%	82	82	0	0.0%	82	82	0	0.09
> 1,000 cfs	81	81	0	0.0%	76	76	0	0.0%	69	69	0	0.0%	60	61	1	1.7%	47	47	0	0.09
> 2,000 cfs	81	81	0	0.0%	67	68	1	1.5%	52	52	0	0.0%	41	41	0	0.0%	33	33	0	0.09
> 3,000 cfs	81	81	0	0.0%	62	60	-2	-3.2%	49	48	-1	-2.0%	38	37	-1	-2.6%	24	23	-1	-4.2%
> 4,000 cfs	80	80	0	0.0%	59	58	-1	-1.7%	46	46	0	0.0%	32	32	0	0.0%	19	19	0	0.0%
> 6,000 cfs	76	76	0	0.0%	55	54	-1	-1.8%	40	38	-2	-5.0%	26	25	-1	-3.8%	13	13	0	0.0%
> 8,000 cfs	73	73	0	0.0%	47	49	2	4.3%	35	32	-3	-8.6%	23	22	-1	-4.3%	11	9	-2	-18.2
> 10 000 cfs	68	69	1	1.5%	46	45	-1	-2 2%	33	30	-3	-9 1%	22	21	-1	-4 5%	9	8	-1	-11 1

Figure 1. Frequency of Sutter Bypass Habitat Area Inundation Events.

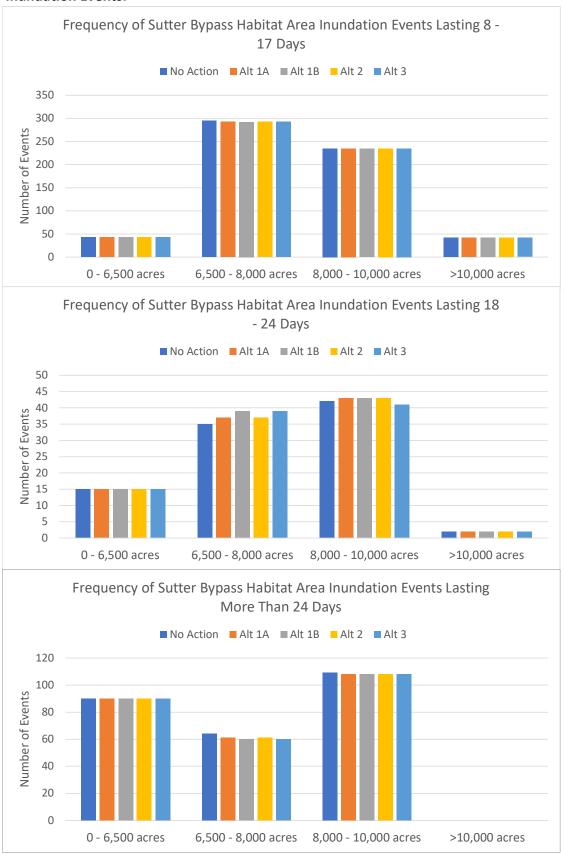


Table 1. Frequency of Sutter Bypass Habitat Area Inundation Events.

Table 1. Trequent	y or sutter	Буразз по	bitut Ai cu i	nunua tion	Events.								
				Fre	quency of Su	tter Bypass Hab	itat Area Inun	dation Events	Lasting 8 - 17 D	ays			
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 6,500 acres	43	43	0	0%	43	0	0%	43	0	0%	43	0	0%
6,500 - 8,000 acres	295	293	-2	-1%	292	-3	-1%	293	-2	-1%	293	-2	-1%
8,000 - 10,000 acres	235	235	0	0%	234	-1	0%	235	0	0%	235	0	0%
>10,000 acres	42	42	0	0%	42	0	0%	42	0	0%	42	0	0%
				Fred	quency of Sut	ter Bypass Habi	itat Area Inunc	dation Events	Lasting 18 - 24 I	Days			
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 6,500 acres	15	15	0	0%	15	0	0%	15	0	0%	15	0	0%
6,500 - 8,000 acres	35	37	2	6%	39	4	11%	37	2	6%	39	4	11%
8,000 - 10,000 acres	42	43	1	2%	43	1	2%	43	1	2%	41	-1	-2%
>10,000 acres	2	2	0	0%	2	0	0%	2	0	0%	2	0	0%
		-		Freque	ncy of Sutter	Bypass Habitat	Area Inundatio	on Events Last	ing More Than	24 Days			
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 6,500 acres	90	90	0	0%	90	0	0%	90	0	0%	90	0	0%
6,500 - 8,000 acres	64	61	-3	-5%	60	-4	-6%	61	-3	-5%	60	-4	-6%
8,000 - 10,000 acres	109	108	-1	-1%	108	-1	-1%	108	-1	-1%	108	-1	-1%
>10,000 acres	0	0	0	-	0	0	-	0	0	-	0	0	-

<sup>\*</sup>Based on total number of events in 82 year simulation period.

Table 2. Monthly Summary of Frequency of Sutter Bypass Habitat Area Inundation Events Lasting 8 - 17 Days

				Frequenc	y of Sutter By	pass Habitat A	rea Inundatio	n Events Lasti	ng 8 - 17 Days i	n October			
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
			+						+				
0 - 6,500 acres	8	8		0%	8		0%	8		0%	8	0	0%
6,500 - 8,000 acres	26	26	0	0%	26	0	0%	26	0	0%	26	0	0%
8,000 - 10,000 acres	7	7	0	0%	7		0%	7	0	0%	7	0	0%
	<u> </u>							0					
>10,000 acres	0	0	0		0				0		0	0	-
				Frequency	of Sutter By	oass Habitat Ar	ea Inundation	Events Lastin	g 8 - 17 Days in	November			
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
A B	N - A - A	414.4.4			A I+ 4 D			A 14 2			A 14. 2		
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 6,500 acres	8	8	0	0%	8	0	0%	8	0	0%	8	0	0%
6,500 - 8,000 acres	25	25	0	0%	25	0	0%	25	0	0%	25	0	0%
8.000 - 10.000 acres													
-,	33	33	+	0%	33		0%	33	0	0%	33	0	
>10,000 acres	0	0	0	-	0	0	-	0	0	-	0	0	-
-				Frequency	of Sutter By	oass Habitat Ar	ea Inundation	Events Lastin	g 8 - 17 Days in	December			
		1	Alt 1 A mainus	Percent				1			1	Alt 2 mainus	Dozoont
			Alt 1A minus			Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 6,500 acres	5	5	0	0%	5	0	0%	5	0	0%	5	0	0%
6,500 - 8,000 acres	34	33		-3%	33		-3%	33		-3%	34	0	
8,000 - 10,000 acres	32	32	0	0%	30	-2	-6%	32	0	0%	31	-1	-3%
>10,000 acres	0	0	0	-	0	0	-	0	0	-	0	0	-
				Eroguon	cy of Cuttor D	macc Habitat A	roa Inundatio	n Events Lasti	ng 8 - 17 Days i	n January			
					Ly or sutter b	-		n Events Lasti					,
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 6,500 acres	7	7	+	1 -	7			7	+		7	0	_ <u> </u>
	<del></del>												
6,500 - 8,000 acres	32	32	0	0%	32		0,0	32			32	0	
8,000 - 10,000 acres	37	38	1	3%	38	1	. 3%	38	1	3%	38	1	3%
>10,000 acres	1	1			1	0		1	0		1	0	
. 10,000 ucies	<del>-</del>	·			_	ŭ		_	-				0/0
				Frequenc	y of Sutter By	:		ı Events Lastii	ng 8 - 17 Days ir	n February			
	l		Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
	INO ACCION	AIL IM	1								AILJ	140 ACTION	
0 - 6,500 acres	2	2	0	0%	2	0	0%	2	0	0%	2	0	0%
6,500 - 8,000 acres	22	21	-1	-5%	21	-1	-5%	21	-1	-5%	23	1	5%
8,000 - 10,000 acres	29	29	0	0%	29	0	0%	29	0	0%	29	0	0%
	23				23							0	
>10,000 acres	1	1	0	0%	1	0	0%	1	0	0%	1	0	0%
				Frequen	cy of Sutter B	ypass Habitat	Area Inundatio	on Events Last	ing 8 - 17 Days	in March			
			Alt 1A minus	Percent	·	Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
	l												
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 6,500 acres	0	0	0	-	0	0	-	0	0	-	0	0	-
6,500 - 8,000 acres	13	13	0	0%	12	-1	-8%	13	0	0%	10	-3	-23%
8,000 - 10,000 acres	20			-5%	19		5%	19		-5%	19	-1	-5%
>10,000 acres	8	8	0	0%	8	0	0%	8	0	0%	8	0	0%
				070	U	U	0%	٥		070			070
	l					_			_				078
				Freque		Bypass Habitat	Area Inundati		ting 8 - 17 Days	in April			
			Alt 1A minus	Freque Percent	ncy of Sutter	Bypass Habitat Alt 1B minus	Area Inundati Percent	on Events Las	Alt 2 minus	in April Percent	1	Alt 3 minus	Percent
Area Range	No Action	Alt 1A		Freque		Bypass Habitat	Area Inundati		ting 8 - 17 Days	in April	Alt 3		
	No Action	Alt 1A	Alt 1A minus No Action	Freque Percent Change	ncy of Sutter Alt 1B	Bypass Habitat Alt 1B minus	Area Inundati Percent Change	on Events Las	Alt 2 minus No Action	in April Percent Change	1	Alt 3 minus No Action	Percent Change
0 - 6,500 acres	1	1	Alt 1A minus No Action	Frequent Percent Change 0%	ncy of Sutter Alt 1B	Bypass Habitat Alt 1B minus No Action	Area Inundati Percent Change	on Events Las	Alt 2 minus No Action	Percent Change	Alt 3	Alt 3 minus No Action	Percent Change
0 - 6,500 acres 6,500 - 8,000 acres	1 15	1 15	Alt 1A minus No Action	Freque Percent Change 0% 0%	Alt 1B 15	Bypass Habitat Alt 1B minus No Action 0	Area Inundati Percent Change 0%	Alt 2	Alt 2 minus No Action  0	Percent Change	Alt 3 1 15	Alt 3 minus No Action	Percent Change 0%
0 - 6,500 acres	1	1	Alt 1A minus No Action	Frequent Percent Change 0%	ncy of Sutter Alt 1B	Bypass Habitat Alt 1B minus No Action 0	Area Inundati Percent Change 0%	on Events Las	Alt 2 minus No Action  0	Percent Change	Alt 3	Alt 3 minus No Action	Percent Change 0%
0 - 6,500 acres 6,500 - 8,000 acres 8,000 - 10,000 acres	1 15	1 15 17	Alt 1A minus No Action 0	Freque Percent Change 0% 0%	Alt 1B 15	Bypass Habitat Alt 1B minus No Action 0 0	Area Inundati Percent Change 0%	Alt 2	Alt 2 minus No Action  0 0	Percent Change	Alt 3 1 15 17	Alt 3 minus No Action	Percent Change 0%
0 - 6,500 acres 6,500 - 8,000 acres	1 15 17	1 15 17	Alt 1A minus No Action 0	Percent Change 0% 0% 0%	Alt 1B 15 17 18	Bypass Habitat Alt 1B minus No Action 0 0	Area Inundation Percent Change 0% 0% 0% 0%	Alt 2 15 17 18	ting 8 - 17 Days Alt 2 minus No Action 0 0 0	e in April Percent Change  0%  0%  0%	Alt 3 1 15	Alt 3 minus No Action	Percent Change 0% 0%
0 - 6,500 acres 6,500 - 8,000 acres 8,000 - 10,000 acres	1 15 17	1 15 17	Alt 1A minus No Action 0 0	Frequent Change 0% 0% 0% 0% Frequent 0%	Alt 1B 15 17 18	Bypass Habitat Alt 1B minus No Action 0 0 0 Bypass Habitat	Area Inundati Percent Change  0%  0%  0%  0%  Area Inundati	Alt 2 15 17 18	ting 8 - 17 Days Alt 2 minus No Action 0 0 0 ting 8 - 17 Days	s in April Percent Change 0% 0% 0% 0% s in May	Alt 3 1 15 17	Alt 3 minus No Action 0 0	Percent Change 0% 0% 0%
0 - 6,500 acres 6,500 - 8,000 acres 8,000 - 10,000 acres	1 15 17	1 15 17	Alt 1A minus No Action 0	Percent Change 0% 0% 0%	Alt 1B 15 17 18	Bypass Habitat Alt 1B minus No Action 0 0	Area Inundation Percent Change 0% 0% 0% 0%	Alt 2 15 17 18	ting 8 - 17 Days Alt 2 minus No Action 0 0 0	e in April Percent Change  0%  0%  0%	Alt 3 1 15 17	Alt 3 minus No Action	Percent Change 0% 0%
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0 - 6,500 acres 6,500 - 8,000 acres 8,000 - 10,000 acres >10,000 acres >10,000 acres Area Range 0 - 6,500 acres 6,500 - 8,000 acres 10,000 acres  Area Range 0 - 6,500 acres 6,500 - 8,000 acres 8,000 - 10,000 acres >10,000 acres  Area Range 0 - 6,500 acres 6,500 - 8,000 acres 10,000 acres >10,000 acres  Area Range 0 - 6,500 acres 6,500 - 8,000 acres >10,000 acres >10,000 acres >10,000 acres >10,000 acres  Area Range 0 - 6,500 acres 6,500 - 8,000 acres >10,000 acres  Area Range 0 - 6,500 acres 6,500 - 8,000 acres 8,000 - 10,000 acres  Area Range 0 - 6,500 acres 6,500 - 8,000 acres 6,500 - 8,000 acres	1 15 17 18 18 15 17 18 18 15 13 18 15 13 18 15 13 18 15 18 15 18 18 15 18 18 18 18 18 18 18 18 18 18 18 18 18	Alt 1A  Alt 1A	Alt 1A minus No Action  O O O O O O O O O O O O O O O O O O	Frequency Percent Change  0% 0% 0% Freque Percent Change  0% 0% 0% Freque Percent Change  0% 0% Freque Percent Change  0% 0% Freque Percent Change	Alt 1B 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Bypass Habitat Alt 1B minus No Action  O  Bypass Habitat Alt 1B minus No Action  C  Bypass Habitat Alt 1B minus No Action  C  Bypass Habitat Alt 1B minus No Action  C  C  C  C  C  C  C  C  C  C  C  C  C	Area Inundati Percent Change  0% 0% 0% Area Inundati Percent Change 0% 0% Area Inundati Percent Change 0% 0% Area Inundati Percent Change 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	Alt 2  Alt 1	Alt 2 minus No Action  O O O O O O O O O O O O O O O O O O	s in April Percent Change  0% 0% 0% 0% s in May Percent Change  0% 0% s in June Percent Change  0% 0% s in July Percent Change  0% 0% s in July Percent Change  0% 0% s in July Percent Change  0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	Alt 3	Alt 3 minus No Action  O O O O O O O O O O O O O O O O O O	Percent Change  Percent Change  O%
0 - 6,500 acres 6,500 - 8,000 acres 8,000 - 10,000 acres >10,000 acres >10,000 acres Area Range 0 - 6,500 acres 6,500 - 8,000 acres 8,000 - 10,000 acres  Area Range 0 - 6,500 acres 6,500 - 8,000 acres 8,000 - 10,000 acres  Area Range 0 - 6,500 acres 8,000 - 10,000 acres >10,000 acres  Area Range 0 - 6,500 acres 8,000 - 10,000 acres >10,000 acres 5,500 - 8,000 acres 5,500 - 8,000 acres >10,000 acres >10,000 acres >10,000 acres >10,000 acres	1 15 17 18 18 15 17 18 18 15 13 18 15 13 18 15 13 18 15 18 15 18 18 15 18 18 18 18 18 18 18 18 18 18 18 18 18	Alt 1A	Alt 1A minus No Action  O O O O O O O O O O O O O O O O O O	Frequency Percent Change  0% 0% 0% Freque Percent Change  0% 0% 0% Freque Percent Change 0% 0% 0% Freque Percent Change 0% 0% Freque Percent Change 0% 0% Freque Percent Change	Alt 1B  Alt 1B  1  15  17  18  ncy of Sutter  Alt 1B  0  18  166  13  ncy of Sutter  Alt 1B  2  40  23  1  ncy of Sutter  Alt 1B  0  51  15  0  cy of Sutter  Alt 1B  0  string of Sutter  Alt 1B  0  40  51  15  0  cy of Sutter B  Alt 1B  0  Alt 1B  0  Alt 1B  0  Alt 1B  10  Alt 1B  10  Alt 1B	Bypass Habitat Alt 1B minus No Action  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Area Inundati Percent Change  0% 0% 0% 0% Area Inundat Percent Change  0% 0% 0% Area Inundat Percent Change 0% 0% Area Inundat Percent Change 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	Alt 2	ting 8 - 17 Day: Alt 2 minus No Action  0 0 0 0 0 0 sting 8 - 17 Day: Alt 2 minus No Action  0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1	in April Percent Change  0% 0% 0% 0% 0% 0% in May Percent Change  0% 0% in June Percent Change  0% 0% 5 in July Percent Change  0% 0% 5 sin July Percent Change  0% 0% 5 sin July Percent Change  0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	Alt 3	Alt 3 minus No Action  O O O O O O O O O O O O O O O O O O	Percent Change  Percent Change  O%

Table 3. Monthly Summary of Frequency of Sutter Bypass Habitat Area Inundation Events Lasting 18 - 24 Days

				Frequence	y of Sutter By	pass Habitat Ar	ea Inundation	Events Lastin	ng 18 - 24 Days	in October			
			Alt 1A minus	Percent	<u> </u>	Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Aroa Pango	No Action	Alt 1A			Alt 1B	No Action	l l	Alt 2	No Action		Alt 3	No Action	
Area Range	NO ACTION		No Action	Change			Change		+	Change			Change
0 - 6,500 acres	5	5	0	0%	5	0	0%	5	0	0%	5	0	0%
6,500 - 8,000 acres	1	1	0	0%	1	. 0	0%	1	0	0%	1	0	0%
8,000 - 10,000 acres	0				0	+		0			0	0	
	, u					1				-			
>10,000 acres	0	0	0	-	0	0	-	0	0	-	0	0	-
				Frequency	of Sutter Byp	ass Habitat Are	a Inundation I	Events Lasting	18 - 24 Days ir	n November			
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
1					41.45		l l						
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 6,500 acres	1	1	0	0%	1	. 0	0%	1	0	0%	1	0	0%
6,500 - 8,000 acres	3	3	0	0%	3	0	0%	3	0	0%	3	0	0%
					1	<del></del>				0%	1		
8,000 - 10,000 acres	1	1	0				0%	1	+	0%	_	0	
>10,000 acres	0	0	0	-	0	0	-	0	0	-	0	0	-
				Frequency	of Sutter Byp	ass Habitat Are	a Inundation	Events Lasting	3 18 - 24 Days ir	n December			
		1	Alt 1A minus	Percent	· · · · · · / ·	Alt 1B minus	Percent	T	Alt 2 minus	Percent	ī	Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 6,500 acres	3	3	0	0%	3	0	0%	3	0	0%	3	0	0%
6,500 - 8,000 acres	2	3	0	0%	3	0	0%	3		0%	4	1	33%
												1	
8,000 - 10,000 acres	7	7			8	<del>                                     </del>	14%	7		0%	6	-1	-14%
>10,000 acres	0	0	0	-	0	0	-	0	0	-	0	0	-
•			•	Frequenc	v of Sutter By	nass Hahitat Δι	rea Inundation	Events Lastin	ng 18 - 24 Days	in January	•	•	
					y or sutter by			I EVENTS Eastin	-				Ia .
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 6,500 acres	1	1	0	0%	1	0	0%	1	0	0%	1	0	0%
6,500 - 8,000 acres	-	5	0		5			5		0%	5	0	
	- ·											0	
8,000 - 10,000 acres	5	6		20%	6		20%	6		20%	6	1	20%
>10,000 acres	0	0	0	-	0	0	-	0	0	-	0	0	-
	<b>-</b>				_	-	ea Inundation	-	g 18 - 24 Days i	n Eehruani			
	ļ		T	<del> </del>	or sutter By			LVEHUS LASTIN	<del></del>	<del> </del>			
1	l	1	Alt 1A minus	Percent	Ī	Alt 1B minus	Percent	Ī	Alt 2 minus	Percent	Ī	Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 6,500 acres	^											^	
,	L 0	0	0		0		-	0		-	0	0	
6,500 - 8,000 acres	2	5	3	150%	5	3	150%	5	3	150%	4	2	100%
8,000 - 10,000 acres	8	8	0	0%	8	0	0%	8	0	0%	8	0	0%
>10,000 acres	0	+			0			0			0	0	
>10,000 acres	U	U	U				-			-	U	U	-
				Frequenc	cy of Sutter By	ypass Habitat A	rea Inundatio	n Events Lasti	ng 18 - 24 Days	in March			
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
	NO ACTION						Change			Change		NO ACTION	Change
0 - 6,500 acres	0	0	0	-	0	0	-	0	0	-	0	0	-
6,500 - 8,000 acres	4	4	0	0%	5	1	25%	4	0	0%	5	1	25%
8,000 - 10,000 acres	9				9	1		9		0%	9	0	
						+				0/6			
>10,000 acres	0	0	0	-	0	0	-	0	0	-	0	0	- 1
•								-					
				Frequer	ncv of Sutter E	Bypass Habitat		on Events Last	ing 18 - 24 Day	s in April			
_		1	Alt 1 A mainus		ncy of Sutter E		Area Inundatio	on Events Last	ting 18 - 24 Day		1	Alt 2 mainus	
		Ι.	Alt 1A minus	Percent		Alt 1B minus	Area Inundation		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	Alt 1A minus No Action		ncy of Sutter E		Area Inundatio	on Events Last			Alt 3	Alt 3 minus No Action	
	No Action	+	No Action	Percent Change	Alt 1B	Alt 1B minus No Action	Area Inundation Percent Change	Alt 2	Alt 2 minus No Action	Percent	Alt 3	No Action	Percent Change
0 - 6,500 acres	0	0	No Action	Percent Change	Alt 1B	Alt 1B minus No Action	Percent Change	Alt 2	Alt 2 minus No Action	Percent Change	0	No Action 0	Percent Change
0 - 6,500 acres 6,500 - 8,000 acres		0	No Action 0	Percent Change - -25%	Alt 1B 0	Alt 1B minus No Action	Area Inundation Percent Change - 0%	Alt 2 0	Alt 2 minus No Action 0	Percent Change - -25%	0	No Action 0	Percent Change
0 - 6,500 acres 6,500 - 8,000 acres 8,000 - 10,000 acres	0	0 3 4	No Action 0 -1 0	Percent Change - -25% 0%	Alt 1B 0 4	Alt 1B minus No Action 0 0	Area Inundation Percent Change - 0%	Alt 2 0 3	Alt 2 minus No Action 0 -1 0	Percent Change	0 4 4	No Action 0 0 0	Percent Change - 0% 0%
0 - 6,500 acres 6,500 - 8,000 acres	0	0	No Action 0 -1 0	Percent Change - -25% 0%	Alt 1B 0	Alt 1B minus No Action 0 0	Area Inundation Percent Change - 0%	Alt 2 0	Alt 2 minus No Action 0 -1 0	Percent Change - -25%	0	No Action 0	Percent Change - 0% 0%
0 - 6,500 acres 6,500 - 8,000 acres 8,000 - 10,000 acres	0	0 3 4	No Action 0 -1 0	Percent Change - -25% 0%	Alt 1B 0 4 4 0	Alt 1B minus No Action 0 0	Area Inundation Percent Change - 0% 0%	Alt 2 0 3 4 0	Alt 2 minus No Action 0 -1 0	Percent Change - -25% 0%	0 4 4	No Action 0 0 0	Percent Change - 0% 0%
0 - 6,500 acres 6,500 - 8,000 acres 8,000 - 10,000 acres	0	0 3 4	No Action 0 -1 0 0	Percent Change - -25% 0% - Frequer	Alt 1B 0 4 4 0	Alt 1B minus No Action  0 0 0 0 8ypass Habitat	Area Inundation Percent Change - 0% 0% - Area Inundation	Alt 2 0 3 4 0	Alt 2 minus No Action  0  -1  0  ting 18 - 24 Day	Percent Change 25% 0% 	0 4 4	No Action 0 0 0 0	Percent Change - 0% 0%
0 - 6,500 acres 6,500 - 8,000 acres 8,000 - 10,000 acres	0	0 3 4	No Action 0 -1 0 0 Alt 1A minus	Percent Change 25% 0%  Frequer Percent	Alt 1B 0 4 4 0	Alt 1B minus No Action 0 0	Area Inundation Percent Change  0% 0%  - Area Inundation Percent	Alt 2 0 3 4 0	Alt 2 minus No Action 0 -1 0	Percent Change - -25% 0%	0 4 4	No Action 0 0 0	Percent Change - 0% 0% - -
0 - 6,500 acres 6,500 - 8,000 acres 8,000 - 10,000 acres >10,000 acres	0	0 3 4	No Action 0 -1 0 0	Percent Change 25% 0%  Frequer Percent	Alt 1B 0 4 4 0	Alt 1B minus No Action  0 0 0 0 8ypass Habitat	Area Inundation Percent Change - 0% 0% - Area Inundation	Alt 2 0 3 4 0	Alt 2 minus No Action  0  -1  0  ting 18 - 24 Day	Percent Change 25% 0%  s in May	0 4 4	No Action 0 0 0 0	Percent Change - 0% 0%
0 - 6,500 acres 6,500 - 8,000 acres 8,000 - 10,000 acres >10,000 acres	0 4 4 0	0 3 4 0	No Action  0  -1  0  Alt 1A minus No Action	Percent Change  -25% 0% Frequer Percent Change	Alt 1B  0  4  4  0  ncy of Sutter E	Alt 1B minus No Action  0 0 0 0 0 Bypass Habitat Alt 1B minus No Action	Area Inundation Percent Change  0% 0%  - Area Inundation Percent	Alt 2  0  3  4  0  on Events Last	Alt 2 minus No Action  0  -1  0  ting 18 - 24 Day Alt 2 minus No Action	Percent Change 25% 0% 	0 4 4 0	No Action  0 0 0 0 0 Alt 3 minus No Action	Percent Change - 0% 0% - Percent Change
0 - 6,500 acres 6,500 - 8,000 acres 8,000 - 10,000 acres >10,000 acres Area Range 0 - 6,500 acres	0 4 4 0	0 3 4 0 Alt 1A	No Action  0  -1  0  0  Alt 1A minus No Action	Percent Change  -25% 0% Frequer Percent Change	Alt 1B  0 4 4 0 ncy of Sutter B  Alt 1B	Alt 1B minus No Action  0 0 0 0 3ypass Habitat Alt 1B minus No Action 0	Area Inundation Percent Change  0% 0%  Area Inundation Percent Change	Alt 2  0  3  4  0  n Events Last	Alt 2 minus No Action  0  -1  0  ting 18 - 24 Day Alt 2 minus No Action	Percent Change  -25% 0% s in May Percent Change	0 4 4 0	No Action  0 0 0 0 0 Alt 3 minus No Action 0	Percent Change 0% 0% Percent Change
0 - 6,500 acres 6,500 - 8,000 acres 8,000 - 10,000 acres >10,000 acres Area Range 0 - 6,500 acres 6,500 - 8,000 acres	0 4 4 0	0 3 4 0 Alt 1A 0	No Action 0 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Percent Change -25% 0% Frequer Percent Change	Alt 1B  0  4  4  0  occy of Sutter B  Alt 1B  0  1	Alt 1B minus No Action  0 0 0 3ypass Habitat Alt 1B minus No Action  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Area Inundation Percent Change  0% 0%  Area Inundation Percent Change	Alt 2 0 0 3 4 0 0 0 Events Last	Alt 2 minus No Action  0  -1  0  ting 18 - 24 Day Alt 2 minus No Action  0  0  0  0  0  0  0  0  0  0  0  0  0	Percent Change -25% 0% s in May Percent Change	0 4 4 0 Alt 3	No Action  0 0 0 0 0 Alt 3 minus No Action	Percent Change - 0% 0% Percent Change
0 - 6,500 acres 6,500 - 8,000 acres 8,000 - 10,000 acres >10,000 acres Area Range 0 - 6,500 acres	0 4 4 0	0 3 4 0 Alt 1A	No Action 0 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Percent Change -25% 0% Frequer Percent Change	Alt 1B  0 4 4 0 ncy of Sutter B  Alt 1B	Alt 1B minus No Action  0 0 0 3ypass Habitat Alt 1B minus No Action  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Area Inundation Percent Change  0% 0%  Area Inundation Percent Change	Alt 2  0  3  4  0  n Events Last	Alt 2 minus No Action  0  -1  0  ting 18 - 24 Day Alt 2 minus No Action  0  0  0  0  0  0  0  0  0  0  0  0  0	Percent Change  -25% 0% s in May Percent Change	0 4 4 0	No Action  0 0 0 0 0 Alt 3 minus No Action 0	Percent Change 0% 0% Percent Change
0 - 6,500 acres 6,500 - 8,000 acres 8,000 - 10,000 acres >10,000 acres Area Range 0 - 6,500 acres 6,500 - 8,000 acres 8,000 - 10,000 acres	0 4 4 0	0 3 4 0 Alt 1A 0	No Action 0 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Percent Change -25% 0% - Frequer Percent Change - 0% 0%	Alt 1B  0  4  4  0  occy of Sutter B  Alt 1B  0  1	Alt 1B minus No Action  0 0 0 3ypass Habitat Alt 1B minus No Action  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Area Inundatic Percent Change  0% 0% Area Inundatic Percent Change  0% -33%	Alt 2 0 0 3 4 0 0 0 Events Last	Alt 2 minus No Action  0  -1  0  ting 18 - 24 Day Alt 2 minus No Action  0  0  0  0  0  0  0  0  0  0  0  0  0	Percent Change -25% 0% sr in May Percent Change - 0% 0%	0 4 4 0 Alt 3	No Action  0 0 0 0 0 Alt 3 minus No Action 0	Percent Change - 0% 0% - 0% - Percent Change - 0% - 33%
0 - 6,500 acres 6,500 - 8,000 acres 8,000 - 10,000 acres >10,000 acres Area Range 0 - 6,500 acres 6,500 - 8,000 acres	0 4 4 0	0 3 4 0 Alt 1A 0	No Action 0 -1 0 0 Alt 1A minus No Action 0 0 0 0	Percent Change -25% 0% - Frequer Percent Change - 0% 0%	Alt 1B  0  4  4  0  orcy of Sutter E  Alt 1B  0  1  2	Alt 1B minus No Action  0 0 0 3ypass Habitat Alt 1B minus No Action  0 0 1 0 1 0 1 0 0 1 0 0 0 0 0 0 0 0 0	Area Inundation Percent Change  0% 0% Area Inundation Percent Change  0% -33% 0%	Alt 2  0  3  4  0  on Events Lass  Alt 2  0  1  3  2	Alt 2 minus No Action  0 -1 0 0 ting 18 - 24 Day Alt 2 minus No Action  0 0 0 0 0 0 0 0 0	Percent Change -25% 0% os in May Percent Change -0% 0%	0 4 4 0 Alt 3	No Action  0 0 0 0 0 Alt 3 minus No Action 0	Percent Change - 0% 0% Percent Change
0 - 6,500 acres 6,500 - 8,000 acres 8,000 - 10,000 acres >10,000 acres Area Range 0 - 6,500 acres 6,500 - 8,000 acres 8,000 - 10,000 acres	0 4 4 0	0 3 4 0 Alt 1A 0	No Action 0	Percent Change -25% 0% Frequer Percent Change -0% 0% Frequer	Alt 1B  0  4  4  0  orcy of Sutter E  Alt 1B  0  1  2	Alt 1B minus No Action  0 0 0 0 3ypass Habitat Alt 1B minus No Action 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Area Inundation Percent Change  0% 0% Area Inundation Percent Change  0% 4.33% Area Inundation	Alt 2  0  3  4  0  on Events Lass  Alt 2  0  1  3  2	Alt 2 minus No Action  0  -1  0  ting 18 - 24 Day No Action  0  0  0  ing 18 - 24 Day	Percent Change  -25% 0% os in May Percent Change - 0% 0% 0% os in June	0 4 4 0 Alt 3	No Action 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Percent Change
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Table 4. Monthly Summary of Frequency of Sutter Bypass Habitat Area Inundation Events Lasting More Than 24 Days

	_	_	Tala da seterra		Sutter Bypas			ents Lasting N	Nore Than 24 D		r T	Late 2 maining	D
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0 - 6,500 acres 6,500 - 8,000 acres 8,000 - 10,000 acres 8,000 - 10,000 acres 8,000 - 10,000 acres 9 - 6,500 acres 8,000 - 10,000 acres 8,000 - 10,000 acres 8,000 - 10,000 acres 9 - 6,500 acres 8,000 - 10,000 acres 10,000 acres 10,000 acres 9 - 6,500 acres 8,000 - 10,000 acres 9 - 6,500 acres 8,000 - 10,000 acres 10,000 acres 9 - 6,500 acres 6,500 - 8,000 acres 10,000 acres	No Action  Action  No Action  Action  No Action  No Action  No Action	Alt 1A  Alt 1A  Alt 1A  Alt 1A  Alt 1A  Alt 1A	Alt 1A minus No Action  Alt 1A minus No Action	Frequency Percent Change  0%  Frequency Percent Change  0%  Frequency Percent Change  0%  Frequency Percent Change  0%  0%	Alt 1B  Alt 1B  Of Sutter Byp:  Alt 1B  Of Sutter Byp:  Alt 1B  Of Sutter Byp:  Alt 1B	ass Habitat Area Alt 1B minus No Action  (ass Habitat Area (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	a Inundation In Percent Change  Inundation In Inundation In Percent Change  Inundation In Inundation I	Alt 2  Events Lasting  Alt 2  Output  Alt 2  Output  Alt 2  Output  Alt 2  Alt 3  Alt 2  Alt 3  Alt 4  Alt 6  Alt 6  Alt 7  Alt 8  Alt 9  Alt	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Days in May Percent Change  O%  Days in June Percent Change  O%  O%  Days in July Percent Change  O%  O%  Days in July Percent Change  O%  O%  O%  O%  O%  O%  O%  O%  O%  O	Alt 3	Alt 3 minus No Action  Alt 3 minus No Action  C C C C C C C C C C C C C C C C C C	Percent Change  Percent Change  Percent Change  Percent Change  Percent Change  O9  O9  Percent Change  O9  O9  O9  O9  O9  O9  O9  O9  O9  O
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Figure 2. Average Annual Sutter Bypass Habitat Area Inundation Events.

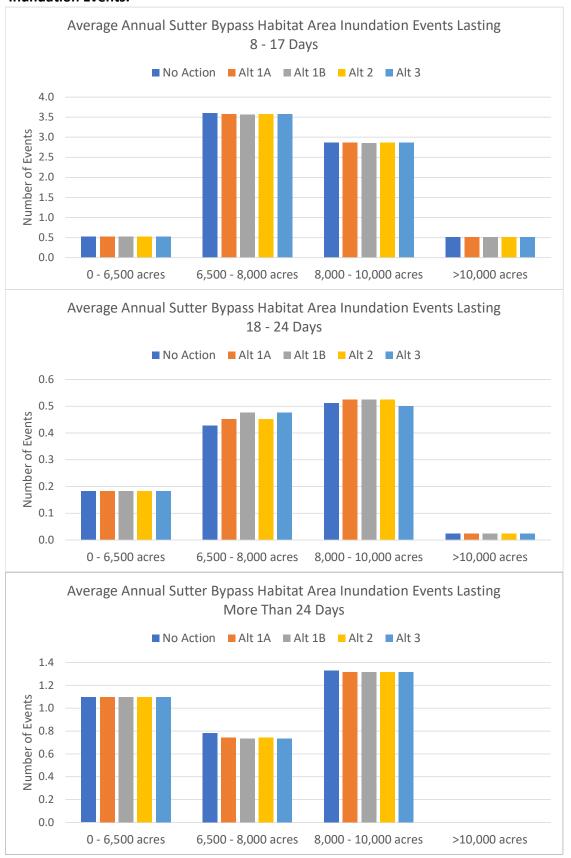


Table 5. Average Annual Sutter Bypass Habitat Area Inundation Events.

Table 5. Average	Annuai Su	iter bypas	Habitat Ar	ea inundat	ion Events.								
				Aver	age Annual Su	itter Bypass Ha	bitat Area Inu	ndation Event	s Lasting 8 - 17	Days			
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 6,500 acres	0.52	0.52	0.00	0%	0.52	0.00	0%	0.52	0.00	0%	0.52	0.00	0%
6,500 - 8,000 acres	3.60	3.57	-0.02	-1%	3.56	-0.04	-1%	3.57	-0.02	-1%	3.57	-0.02	-1%
8,000 - 10,000 acres	2.87	2.87	0.00	0%	2.85	-0.01	0%	2.87	0.00	0%	2.87	0.00	0%
>10,000 acres	0.51	0.51	0.00	0%	0.51	0.00	0%	0.51	0.00	0%	0.51	0.00	0%
-				Aver	age Annual Su	tter Bypass Hal	oitat Area Inur	ndation Events	Lasting 18 - 24	Days			
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 6,500 acres	0.18	0.18	0.00	0%	0.18	0.00	0%	0.18	0.00	0%	0.18	0.00	0%
6,500 - 8,000 acres	0.43	0.45	0.02	6%	0.48	0.05	11%	0.45	0.02	6%	0.48	0.05	11%
8,000 - 10,000 acres	0.51	0.52	0.01	2%	0.52	0.01	2%	0.52	0.01	2%	0.50	-0.01	-2%
>10,000 acres	0.02	0.02	0.00	0%	0.02	0.00	0%	0.02	0.00	0%	0.02	0.00	0%
				Average	Annual Sutter	Bypass Habita	t Area Inundat	ion Events La	sting More Tha	n 24 Days	_		
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 6,500 acres	1.10	1.10	0.00	0%	1.10	0.00	0%	1.10	0.00	0%	1.10	0.00	0%
6,500 - 8,000 acres	0.78	0.74	-0.04	-5%	0.73	-0.05	-6%	0.74	-0.04	-5%	0.73	-0.05	-6%
8,000 - 10,000 acres	1.33	1.32	-0.01	-1%	1.32	-0.01	-1%	1.32	-0.01	-1%	1.32	-0.01	-1%
>10,000 acres	0.00	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-

<sup>\*</sup>Based on total events in 82 year simulation period.

Figure 1. Frequency of All Reaches Habitat Area Inundation Events.

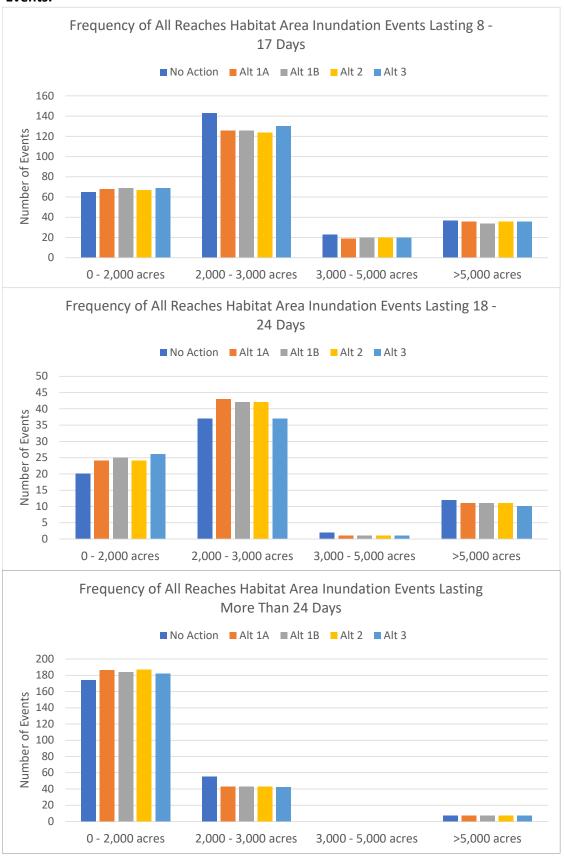


Table 1. Frequency of All Reaches Habitat Area Inundation Events.

rable 1. Frequent	y 0. 7	acrics riabi	tat Air Ca iii c	iiiaatioii Et	rees.									
				Fr	equency	of Al	l Reaches Habit	at Area Inund	ation Events L	asting 8 - 17 Da	iys			
			Alt 1A minus	Percent			Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B		No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,000 acres	65	68	3	5%		69	4	6%	67	2	3%	69	4	6%
2,000 - 3,000 acres	143	126	-17	-12%		126	-17	-12%	124	-19	-13%	130	-13	-9%
3,000 - 5,000 acres	23	19	-4	-17%		20	-3	-13%	20	-3	-13%	20	-3	-13%
>5,000 acres	37	36	-1	-3%		34	-3	-8%	36	-1	-3%	36	-1	-3%
				Fre	equency			at Area Inunda	ation Events L	asting 18 - 24 D	ays			
			Alt 1A minus	Percent			Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B		No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,000 acres	20	24	4	20%		25	5	25%	24	4	20%	26	6	30%
2,000 - 3,000 acres	37	43	6	16%		42	5	14%	42	5	14%	37	0	0%
3,000 - 5,000 acres	2	1	-1	-50%		1	-1	-50%	1	-1	-50%	1	-1	-50%
>5,000 acres	12	11	-1	-8%		11	-1	-8%	11	-1	-8%	10	-2	-17%
				Frequ	ency of A	All Rea	aches Habitat A	rea Inundatio	n Events Lasti	ng More Than 2	4 Days			
			Alt 1A minus	Percent			Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B		No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,000 acres	174	186	12	7%		184	10	6%	187	13	7%	182	8	5%
2,000 - 3,000 acres	55	43	-12	-22%		43	-12	-22%	43	-12	-22%	42	-13	-24%
3,000 - 5,000 acres	0	0	0	-		0	0	-	0	0	-	0	0	-
>5,000 acres	7	7	0	0%		7	0	0%	7	0	0%	7	0	0%

<sup>\*</sup>Based on total number of events in 82 year simulation period.

Table 2. Monthly Summary of Frequency of All Reaches Habitat Area Inundation Events Lasting 8 - 17

Eronyoney of All Deschool Unhited Aven Invendation Fromto Lection C. 47 Description			
Frequency of All Reaches Habitat Area Inundation Events Lasting 8 - 17 Days in Octobe			
Alt 1A minus Percent Alt 1B minus Percent Alt 2 minus Percent		Alt 3 minus	Percent
Area Range No Action Alt 1A No Action Change Alt 1B No Action Change Alt 2 No Action Change		No Action	Change
0 - 2,000 acres 1 1 0 0% 1 0 0% 1 0	0%	1 (	
2,000 - 3,000 acres 1 1 0 0% 1 0 0% 1 0 3,000 - 5,000 acres 0 0 0 - 0 0	0%	0 0	
	-		+
>5,000 acres 0 0 0 0 - 0 0 0 - 0 0 0 0 0 0 0 0 0 0	-	0 (	-
		Alta 2 mainus	Doroont
		Alt 3 minus No Action	Percent Change
Area Range         No Action         Alt 1A         No Action         Change         Alt 1B         No Action         Change         Alt 2         No Action         Change           0 - 2,000 acres         7         6         -1         -14%         7         0         0%         6         -1	-14%	5 -2	2 -29%
0 - 2,000 acres 3 3 3 0 0 % 4 1 1	33%	5 -2	2 67%
2,000 - 5,000 acres 0 0 0 0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-	0 0	
5,000 acres 1 1 1 0 0% 1 0 0% 1 0	0%	1 (	
Frequency of All Reaches Habitat Area Inundation Events Lasting 8 - 17 Days in Decemb		-1 \	070
Alt 1A minus   Percent   Alt 1B minus   Percent   Alt 2 minus   Percent   Alt 3 minus   Percent   Alt 4 minus   Percent   Alt 4 minus   Percent   Alt 5 minus   Percent   Alt 5 minus   Percent   Alt 6 minus   Percent   Alt 7 minus   Percent   Alt 8 minus   Percent   Alt 9 minus   Percent   Al		Alt 3 minus	Percent
Area Range No Action Alt 1A No Action Change Alt 1B No Action Change Alt 2 No Action Change		No Action	Change
0-2,000 acres 11 12 1 9% 13 2 18% 12 1		13 2	2 18%
2,000 -3,000 acres 25 24 -1 -4% 23 -2 -8% 24 -1		21 -4	
3,000 - 5,000 acres 3 3 0 0 0% 3 0 0 0% 3 0	0%	3 (	_
>5,000 acres 6 6 0 0% 6 0 0% 6 0	0%	6 (	_
Frequency of All Reaches Habitat Area Inundation Events Lasting 8 - 17 Days in Januar	/	- I	
Alt 1A minus   Percent   Alt 1B minus   Percent   Alt 2 minus   Percent   Alt 3 minus   Percent   Alt 4 minus   Percent   Alt 5 minus   Percent   Alt 5 minus   Percent   Alt 6 minus   Percent   Alt 7 minus   Percent   Alt 7 minus   Percent   Alt 7 minus   Percent   Alt 8 minus   Percent   Alt 9 minus   Percent   Al		Alt 3 minus	Percent
Area Range No Action Alt 1A No Action Change Alt 1B No Action Change Alt 2 No Action Change		No Action	Change
0 - 2,000 acres 13 13 0 0% 13 0 0% 13 0		13 (	
2,000 - 3,000 acres 23 17 -6 -26% 19 -4 -17% 18 -5	-22%	19 -4	+
3,000 - 5,000 acres 5 2 -3 -60% 2 -3 -60% 2 -3	-60%	2 -3	-60%
>5,000 acres 6 6 0 0 % 5 -1 -17% 6 0	0%	6 (	
Frequency of All Reaches Habitat Area Inundation Events Lasting 8 - 17 Days in Februa	у		
Alt 1A minus Percent Alt 1B minus Percent Alt 2 minus Percent Percent Alt 2 minus Percent	<del></del>	Alt 3 minus	Percent
Area Range No Action Alt 1A No Action Change Alt 1B No Action Change Alt 2 No Action Change		No Action	Change
0 - 2,000 acres 11 12 1 9% 11 0 0% 12 1		12	1 9%
2,000 - 3,000 acres 22 22 0 0% 22 0 0% 21 -1		23 1	L 5%
3,000 - 5,000 acres 5 4 -1 -20% 5 0 0% 5 0	0%	5 (	0%
>5,000 acres 13 12 -1 -8% 11 -2 -15% 12 -1		11 -2	+
Frequency of All Reaches Habitat Area Inundation Events Lasting 8 - 17 Days in March	•		•
Alt 1A minus Percent Alt 1B minus Percent Alt 2 minus Percent	t	Alt 3 minus	Percent
Area Range No Action Alt 1A No Action Change Alt 1B No Action Change Alt 2 No Action Change	Alt 3	No Action	Change
0 - 2,000 acres 10 14 4 40% 14 4 40% 13 3	30%	13	30%
2,000 - 3,000 acres 30 26 -4 -13% 25 -5 -17% 24 -6	-20%	27 -	-10%
3,000 - 5,000 acres 5 5 0 0% 5 0 0% 5	0%	5 (	0%
>5,000 acres 7 6 -1 -14% 6 -1 -14% 6 -1	-14%	6 -:	1 -14%
Frequency of All Reaches Habitat Area Inundation Events Lasting 8 - 17 Days in April			
Alt 1A minus Percent Alt 1B minus Percent Alt 2 minus Percent Percent Alt 2 minus Percent	t	Alt 3 minus	Percent
Area Range No Action Alt 1A No Action Change Alt 1B No Action Change Alt 2 No Action Change	e Alt 3	No Action	Change
0 - 2,000 acres 7 7 0 0% 7 0 0% 7 0	0%	9	2 29%
2,000 - 3,000 acres 16 13 -3 -19% 13 -3 -19% 12 -4	-25%	14 -2	-13%
3,000 - 5,000 acres 5 4 -1 -20% 4 -1 -20% 4 -1	-20%	4 -:	1 -20%
>5,000 acres 4 5 1 25% 5 1 25% 5 1	25%	6	50%
Frequency of All Reaches Habitat Area Inundation Events Lasting 8 - 17 Days in May			
Alt 1A minus Percent Alt 1B minus Percent Alt 2 minus Percent		Alt 3 minus	Percent
Area Range No Action Alt 1A No Action Change Alt 1B No Action Change Alt 2 No Action Chang		No Action	Change
0 - 2,000 acres 3 3 0 0% 3 0 0% 3 0	0%	3 (	
2,000 - 3,000 acres 12 10 -2 -17% 10 -2 -17% 10 -2		11 -1	L -8%
3,000 - 5,000 acres 0 1 1 1 - 1 1 1 1	-		
		1 1	
>5,000 acres 0 0 0 - 0 0 - 0 0	-	0 0	) -
>5,000 acres 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-	0 (	
>5,000 acres 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	t t	O (	Percent
>5,000 acres         0 <t< td=""><td>t Alt 3</td><td>Alt 3 minus No Action</td><td>Percent Change</td></t<>	t Alt 3	Alt 3 minus No Action	Percent Change
ST,000 acres   O   O   O   O   Frequency of All Reaches Habitat Area Inundation Events Lasting 8 - 17 Days in June	t Alt 3	Alt 3 minus No Action	Percent Change
Section 2   Section 3   Section 2   Section 3   Section 2   Section 3   Sect	t Alt 3	Alt 3 minus No Action	Percent Change 2 -100% 0 0%
Section   Sect	t Alt 3	Alt 3 minus No Action 0 -2 3 (0	Percent Change 2 -100% 0 0%
Section   Sect	t Alt 3	Alt 3 minus No Action 0 -2 3 (0	Percent Change 2 -100% 0 0%
>5,000 acres 0 0 0 0 0 Frequency of All Reaches Habitat Area Inundation Events Lasting 8 - 17 Days in June  Area Range No Action Alt 1A No Action Change Alt 1B Minus No Action Change Alt 2 Mo Action Change Alt 2 No Action Change Alt 3 No Action Change Alt 3 No Action Change Alt 2 No Action Change Alt 3 No Action Change	t Alt 3	Alt 3 minus No Action  0 -2 3 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0	Percent Change 2 -100% 0 0% 0 -
Section   Sect	t Alt 3	Alt 3 minus No Action 0 -2 3 (0 0 (0 Alt 3 minus	Percent Change 2 -100% 0 0% 0 - 0 - Percent
Section   Sect	t Alt 3	Alt 3 minus No Action  0 3 (0 0 0 0  Alt 3 minus No Action	Percent Change -100% 0 0%
Section   Sect	t t 2 Alt 3 1100% 0%	Alt 3 minus No Action 0	Percent Change 2 -100% 0 0% 0 D Percent Change
Section   Sect	t Alt 3	Alt 3 minus No Action 0 3 (0 0 0 0 Alt 3 minus No Action 0 0 0 0 0 Alt 3 minus No Action 0 0 0 0 0	Percent Change 2 -100% 0 0% 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2
>5,000 acres 0 0 0 0 0 - 0 0 0 - 0 0 0 0 0 0 0 0 0	t t 2 Alt 3 1100% 0%	Alt 3 minus No Action 0 -2 3 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0	Percent Change 2 -100% 0 0% 0 1 Percent Change 0 -1 1 -20%
SECTION   SECT	t 2 Alt 3 100% 0% t 2 Alt 3	Alt 3 minus No Action 0 3 (0 0 0 0 Alt 3 minus No Action 0 0 0 0 0 Alt 3 minus No Action 0 0 0 0 0	Percent Change 2 -100% 0 0% 0 1 Percent Change 0 -1 1 -20%
SECTION   SECT	t t 2 Alt 3 100% 0%	Alt 3 minus No Action  0	Percent Change 2
Section   Sect	t t 2 Alt 3 100% 0%	Alt 3 minus No Action  O	Percent   Change   2
Section   Sect	t 2 Alt 3 100% 0%	Alt 3 minus No Action  O	Percent Change Company Change Company Change
Section   Sect	t a Alt 3  100%  0%	Alt 3 minus No Action  O	Percent Change 1 -100% 1 -0% 1
Section   Sect	t t 2 Alt 3 100% 0%	Alt 3 minus No Action  O	Percent Change 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Section   Sect	t a Alt 3  100%  0%	Alt 3 minus No Action  O	Percent Change 1 -100% 0 December 1 -20% 1 -20% 1 -20% 1 -20% 2 December 1 -20% 2 December 1 -20% 3 December 1 -20% 4 December 2 December
Section   Sect	t	Alt 3 minus No Action  O	Percent Change 100% 100% 100% 100% 100% 100% 100% 100
Section   Sect	t a Alt 3  100%  0%	Alt 3 minus No Action  O	Percent Change -100% 0 0% 0 0 0 Percent Change 0 0 0 0 0 0 0 0 -
Section   Sect	t 2 Alt 3 100% 0%	Alt 3 minus No Action  O	Percent Change 2
Section   Sect	t 2 Alt 3 100% 0%	Alt 3 minus No Action  O	Percent Change 1
Section   Sect	t	Alt 3 minus No Action  O	Percent Change  -100% 0 0% 0 Percent Change 0 L Change 0 D Percent Change 0 Change
Section   Sect	t a Alt 3 100% 0%	Alt 3 minus No Action  O	Percent Change -100% 0 0% 0 0 0 0 0 0 0
STATE   STAT	t	Alt 3 minus No Action  O  O  O  O  O  O  O  O  O  O  O  O  O	Percent Change -100% 0 0% 0 0 0 0 0 0 0

Table 3. Monthly Summary of Frequency of All Reaches Habitat Area Inundation Events Lasting 18 - 24 Days

				Frequenc	cy of All Reacl	nes Habitat Are	a Inundation	Events Lasting	18 - 24 Days ir	October			
			Alt 1A minus	Percent	r e	Alt 1B minus	Percent	l `	Alt 2 minus	Percent		Alt 3 minus	Percent
A D	NI - A -4'	414.4.4			Alt 4D			44.2			A 14 2		
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,000 acres	0	0	0	-	0	0	-	0	0	-	0	0	-
2,000 - 3,000 acres	0	0	0	_	0	0	_	0	0		0	0	_
3,000 - 5,000 acres	0				0			0		-	0	0	
>5,000 acres	0	0	0	-	0	0	-	0	0	-	0	0	-
				Frequency	of All Reach	es Hahitat Area	Inundation F	vents Lasting	18 - 24 Days in	November			
					V OI All Redell			Vents Easting					In .
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,000 acres	,	1	-2	-67%	1		-67%	1	2	-67%	1	2	-67%
	3			1			1					-2	
2,000 - 3,000 acres	2	2	0	0%	2	0	0%	1	-1	-50%	1	-1	-50%
3,000 - 5,000 acres	0	0	0	-	0	0	-	0	0	_	0	0	-
	-		<b>!</b>	1	0		<del> </del>				0		
>5,000 acres	U	0	0		_	_	-	0		-	U	0	-
				Frequency	y of All Reach	es Habitat Area	Inundation E	vents Lasting	18 - 24 Days in	December			
		ī	Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,000 acres	2	2	0	0%	2	0	0%	2	0	0%	2	0	0%
	_			1			1			<b>-</b>			
2,000 - 3,000 acres	<b>├</b>	2			2			2		0%	2	0	
3,000 - 5,000 acres	0	0	0	-	0	0	-	0	0	-	0	0	-
>5,000 acres	0	1	1	_	1	1	_	1	1	_	1	1	_
> 5,000 deres	·	<u> </u>		<u> </u>									
				Frequen	cy of All Reac	hes Habitat Are	ea Inundation	Events Lasting	g 18 - 24 Days ii	n January			
	l	1	Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent	l	Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
	140 ACTION								+				
0 - 2,000 acres	5	5	0		5	0	0%	5		0%	5	0	
2,000 - 3,000 acres	5	7	2	40%	7	2	40%	6	1	20%	7	2	40%
	0				0					2070	0	0	1
3,000 - 5,000 acres	L 0							0		-		0	
>5,000 acres	5	4	-1	-20%	4	-1	-20%	4	-1	-20%	4	-1	-20%
•	Ī	-		Frequenc	V of All Paach	es Hahitat Aro	a Inundation F	vents Lacting	18 - 24 Days in	Fehruan	-		
	<del></del>	1			, or an nedd			Lecino Labully					
1	I	Ī	Alt 1A minus	Percent	I	Alt 1B minus	Percent		Alt 2 minus	Percent	I	Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
	4												
0 - 2,000 acres	<u> </u>	. 4	3	300%	5		400%	4	3	300%	5	4	400%
2,000 - 3,000 acres	7	4	-3	-43%	4	-3	-43%	4	-3	-43%	3	-4	-57%
3,000 - 5,000 acres	1	1			1		<del></del>	1		0%	1	0	0%
	-											0	
>5,000 acres	2	1	-1	-50%	1	1	-50%	1	-1	-50%	1	1	-50%
-				Frequer	ncv of All Read	hes Habitat Ar	ea Inundation	<b>Events Lastin</b>	g 18 - 24 Days i	in March			
		1	Alt 1A minus						Alt 2 minus			Alt 3 minus	Percent
				Percent		Alt 1B minus	Percent			Percent			
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,000 acres		6	1	20%	6	1	20%	6		20%	7	2	40%
	3			1									
2,000 - 3,000 acres	10	8	-2	-20%	8	-2	-20%	8	-2	-20%	7	-3	-30%
3,000 - 5,000 acres	1	. 0	-1	-100%	0	-1	-100%	0	-1	-100%	0	-1	-100%
	3				3						3		
>5,000 acres	3	3	U		_	_		3			3	0	0%
				Erogue	ncy of All Rea	choc Habitat A	roa Inundatio	n Events Lasti	ng 18 - 24 Days	in Anril			
						iciies nabitat A	rea illulluatioi						
		ı	Alt 1A minus		I All Nee			Lvents Lasti	-			Alt 2 minus	Dorcont
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	Alt 1A minus No Action		Alt 1B			Alt 2	-		Alt 3	Alt 3 minus No Action	Percent Change
	No Action			Percent		Alt 1B minus No Action	Percent		Alt 2 minus No Action	Percent	Alt 3		
0 - 2,000 acres	0	1	No Action	Percent Change	Alt 1B	Alt 1B minus No Action	Percent Change	Alt 2	Alt 2 minus No Action	Percent Change	1		Change -
0 - 2,000 acres 2,000 - 3,000 acres	0	5	No Action 1	Percent Change	Alt 1B 1	Alt 1B minus No Action	Percent Change - 25%	Alt 2 1	Alt 2 minus No Action	Percent	1 5	No Action 1	Change - 25%
0 - 2,000 acres	0	1 . 5	No Action 1	Percent Change	Alt 1B	Alt 1B minus No Action	Percent Change - 25%	Alt 2	Alt 2 minus No Action	Percent Change	1		Change - 25%
0 - 2,000 acres 2,000 - 3,000 acres 3,000 - 5,000 acres	0	5 0	No Action  1 1 0	Percent Change - 25%	Alt 1B 1 5 0	Alt 1B minus No Action 1 1	Percent Change - 25%	Alt 2 1 6	Alt 2 minus No Action 1 2	Percent Change - 50%	1 5 0	No Action 1	Change - 25% -
0 - 2,000 acres 2,000 - 3,000 acres	0	5	No Action  1 1 0	Percent Change - 25% - 0%	Alt 1B 1 5 0 2	Alt 1B minus No Action  1  0 0	Percent Change - 25% - 0%	Alt 2 1 6 0 2	Alt 2 minus No Action  1 2 0 0	Percent Change - 50% - 0%	1 5	No Action 1	Change - 25%
0 - 2,000 acres 2,000 - 3,000 acres 3,000 - 5,000 acres	0	5 0	No Action  1 1 0	Percent Change - 25% - 0%	Alt 1B 1 5 0 2	Alt 1B minus No Action  1  0 0	Percent Change - 25% - 0%	Alt 2 1 6 0 2	Alt 2 minus No Action 1 2	Percent Change - 50% - 0%	1 5 0	No Action 1	Change - 25% -
0 - 2,000 acres 2,000 - 3,000 acres 3,000 - 5,000 acres	0	5 0	No Action  1  1  0 0	Percent Change - 25% - 0% Freque	Alt 1B 1 5 0 2	Alt 1B minus No Action  1 1 0 0 oches Habitat A	Percent Change - 25% - 0% rea Inundatio	Alt 2 1 6 0 2	Alt 2 minus No Action  1 2 0 0 ng 18 - 24 Days	Percent Change - 50% - 0% in May	1 5 0	No Action 1	Change - 25% 50%
0 - 2,000 acres 2,000 - 3,000 acres 3,000 - 5,000 acres >5,000 acres	0 4 0 2	1 5 0 2	No Action	Percent Change - 25% - 0% Freque	Alt 1B  1  5  0  2  ncy of All Rea	Alt 1B minus No Action  1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Percent Change  - 25% - 0% rea Inundation Percent	Alt 2  1 6 0 2 n Events Lasti	Alt 2 minus No Action  1 2 0 0 ng 18 - 24 Days Alt 2 minus	Percent Change 50% - 0% in May	1 5 0 1	1 1 0 Alt 3 minus	- 25% 50% Percent
0 - 2,000 acres 2,000 - 3,000 acres 3,000 - 5,000 acres >5,000 acres	0	1 5 0 2 Alt 1A	No Action  1 1 0 0 Alt 1A minus No Action	Percent Change - 25% - 0% Freque Percent Change	Alt 1B  1  5  0  2  ency of All Rea	Alt 1B minus No Action  1  0  ches Habitat A  Alt 1B minus No Action	Percent Change  - 25% - 0% rea Inundation Percent Change	Alt 2  1 6 0 2 n Events Lasti	Alt 2 minus No Action  1 2 0 0 ng 18 - 24 Days	Percent Change 50% 0% in May Percent Change	1 5 0 1	No Action 1 1 0 0 -1	Change  - 25%  - 50%  Percent Change
0 - 2,000 acres 2,000 - 3,000 acres 3,000 - 5,000 acres >5,000 acres	0 4 0 2	1 5 0 2	No Action	Percent Change - 25% - 0% Freque	Alt 1B  1  5  0  2  ncy of All Rea	Alt 1B minus No Action  1  0  ches Habitat A  Alt 1B minus No Action	Percent Change  - 25% - 0% rea Inundation Percent	Alt 2  1 6 0 2 n Events Lasti	Alt 2 minus No Action  1 2 0 0 ng 18 - 24 Days Alt 2 minus	Percent Change 50% - 0% in May	1 5 0 1	1 1 0 Alt 3 minus	- 25% 50% Percent
0 - 2,000 acres 2,000 - 3,000 acres 3,000 - 5,000 acres >5,000 acres Area Range 0 - 2,000 acres	0 4 0 2	1 5 0 0 2 Alt 1A 2	No Action  1 1 0 0 Alt 1A minus No Action	Percent Change  - 25% - 0% Freque Percent Change  -33%	Alt 1B  1  5  0  2  ency of All Rea	Alt 1B minus No Action  1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Percent Change  - 25% - 0% rea Inundatio Percent Change -33%	Alt 2 1 6 0 2 n Events Lasti	Alt 2 minus No Action  1 2 0 0 ng 18 - 24 Days Alt 2 minus No Action -1	Percent Change 50% 0% in May Percent Change	1 5 0 1	1 1 0 Alt 3 minus	Change - 25% 50% Change - 33%
0 - 2,000 acres 2,000 - 3,000 acres 3,000 - 5,000 acres >5,000 acres Area Range 0 - 2,000 acres 2,000 - 3,000 acres	0 4 0 2 No Action 3 2	1 5 0 0 2 2 Alt 1A 2 5 5	No Action  1  0  0  Alt 1A minus No Action  -1  3	Percent Change  25%  0% Freque Percent Change  -33% 150%	Alt 1B 1 5 0 2 2 ency of All Rea Alt 1B 2 5	Alt 1B minus No Action  1 1 0 0 1 1 Alt 1B minus No Action  -1 3	Percent Change  - 25% - 0% rea Inundatio Percent Change -33% 150%	Alt 2 1 6 0 2 n Events Lasti	Alt 2 minus No Action  1 2 0 0 ng 18 - 24 Days Alt 2 minus No Action -1 3	Percent Change 50% 0% in May Percent Change -33% 150%	1 5 0 1 1 Alt 3 2 5	No Action  1	Change - 25% 50% Change 33% - 150%
0 - 2,000 acres 2,000 - 3,000 acres 3,000 - 5,000 acres >5,000 acres Area Range 0 - 2,000 acres 2,000 - 3,000 acres 3,000 - 5,000 acres	0 4 0 2 No Action	1 5 0 0 2 2 Alt 1A 2 5 0 0	No Action	Percent Change  - 25%  - 0% Freque Percent Change  -33%  150%	Alt 1B 1 5 0 2 2 ency of All Rea 2 5 0 0	Alt 1B minus No Action  1 0 0 0 0ches Habitat A Alt 1B minus No Action -1 3	Percent Change  25%  0%  rea Inundatio Percent Change  -33%  150%	Alt 2 1 6 0 2 n Events Lasti Alt 2 2 5 0 0	Alt 2 minus No Action  1 2 0 0 0 18 - 24 Days Alt 2 minus No Action -1 3 0	Percent Change 50% - 0% in May Percent Change	1 5 0 0 1 1 Alt 3 2 5 0 0	No Action	Change - 25% 50%
0 - 2,000 acres 2,000 - 3,000 acres 3,000 - 5,000 acres >5,000 acres Area Range 0 - 2,000 acres 2,000 - 3,000 acres	0 4 0 2 No Action 3 2	1 5 0 0 2 2 Alt 1A 2 5 5	No Action	Percent Change  - 25%  - 0% Freque Percent Change  -33%  150%	Alt 1B 1 5 0 2 2 ency of All Rea Alt 1B 2 5	Alt 1B minus No Action  1 0 0 0 0ches Habitat A Alt 1B minus No Action -1 3	Percent Change  25%  0%  rea Inundatio Percent Change  -33%  150%	Alt 2 1 6 0 2 n Events Lasti	Alt 2 minus No Action  1 2 0 0 0 18 - 24 Days Alt 2 minus No Action -1 3 0	Percent Change 50% 0% in May Percent Change -33% 150%	1 5 0 1 1 Alt 3 2 5	No Action  1	Change - 25% 50%
0 - 2,000 acres 2,000 - 3,000 acres 3,000 - 5,000 acres >5,000 acres Area Range 0 - 2,000 acres 2,000 - 3,000 acres 3,000 - 5,000 acres	0 4 0 2 No Action 3 2	1 5 0 0 2 2 Alt 1A 2 5 0 0	No Action	Percent Change - 25% - 0% Freque Percent Change - 33% - 150%	Alt 1B 1 5 0 0 2 2 ency of All Rea Alt 1B 2 5 0 0 0 0 0	Alt 1B minus No Action  1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Percent Change	Alt 2  1  6  0  2  n Events Lasti  Alt 2  5  0  0	Alt 2 minus No Action  1 2 0 0 0 ng 18 - 24 Days Alt 2 minus No Action  -1 3 0 0	Percent Change 50% 0% in May Percent Change -33% 150%	1 5 0 0 1 1 Alt 3 2 5 0 0	No Action	Change - 25% 50%
0 - 2,000 acres 2,000 - 3,000 acres 3,000 - 5,000 acres >5,000 acres Area Range 0 - 2,000 acres 2,000 - 3,000 acres 3,000 - 5,000 acres	0 4 0 2 No Action 3 2	1 5 0 0 2 2 Alt 1A 2 5 0 0	No Action	Percent Change  - 25%  - 0% Freque Percent Change  - 33%  150%  Freque	Alt 1B 1 5 0 0 2 2 ency of All Rea Alt 1B 2 5 0 0 0 0 0	Alt 1B minus No Action  1  0 0 ches Habitat A Alt 1B minus No Action  -1  3 0 0 ches Habitat A	Percent Change	Alt 2  1  6  0  2  n Events Lasti  Alt 2  5  0  0	Alt 2 minus No Action  1 2 0 0 0 mg 18 - 24 Days No Action  -1 3 0 0 ng 18 - 24 Days	Percent Change 50% 0% in May Percent Change -33% 150%	1 5 0 0 1 1 Alt 3 2 5 0 0	No Action	Change - 25%50%
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Table 4. Monthly Summary of Frequency of All Reaches Habitat Area Inundation Events Lasting More Than 24 Days

Than 24 Days														
					Frequency o	f All Reaches	Habitat Area II	nundation Eve	nts Lasting M	ore Than 24 Da				
				Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A		No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,000 acres	11		18	7	64%	19	8	73%	20	9	82%	16	5	45
2,000 - 3,000 acres	1		0	-1	-100%	0	-1	-100%	C	-1	-100%	0	-1	-100
3,000 - 5,000 acres	0	)	0	0		0			C	0		0	0	
>5,000 acres	0		0	0		0				0		0	0	-
>5,000 acres	<del>-</del>	1	U									,		
			_			All Reaches F			ts Lasting Mo	re Than 24 Day				
				Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A		No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,000 acres	11		13	2	18%	13	2	18%	13	2	18%	14	3	279
2,000 - 3,000 acres	0		0	0		0	(		C			0	0	
3,000 - 5,000 acres	0		0	0	_	0		1				0	0	<u> </u>
, ,					-									
>5,000 acres	0	)	0	0		0	C		Ü	0		0	0	-
					Frequency of	All Reaches H	labitat Area In	undation Even	ts Lasting Mo	re Than 24 Day	s in December	•		
				Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A		No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,000 acres	14		13	-1	-7%	12	_3	-14%	13		-7%	12	-2	-14
2,000 - 3,000 acres	0	+	0	0		0			C	-		0	0	+
					-			-	_					-
3,000 - 5,000 acres	0	_	0	0	-	0	(		C	0		0	0	-
>5,000 acres	0	)	0	0	-	0	(	-	C	0	-	0	0	-
					Frequency of	of All Reaches	Habitat Area I	nundation Eve	nts Lasting M	ore Than 24 Da	ys in January			
				Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A		No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,000 acres	13		14		_	14		Change 8%	14		Change 8%	13	NO ACTION	Criange 0
		+	-	1	8%				-	+	1		0	
2,000 - 3,000 acres	3		1	-2	-67%	0		-100%	1	-2	-67%	0	-3	-100
3,000 - 5,000 acres	0	+	0	0		0		1	C			0	0	
>5,000 acres	2		2	0	0%	2	C	0%	2	! 0	0%	2	0	0'
					Frequency of	f All Reaches	Habitat Area In	undation Eve	nts Lasting Mo	ore Than 24 Day	ys in February			
	1	1		Alt 1A minus	Percent		Alt 1B minus	Percent	1	Alt 2 minus	Percent		Alt 3 minus	Percent
Area Pange	No Action	Alt 1A		No Action		Alt 1B	No Action		Alt 2	No Action		Alt 3	No Action	Change
Area Range			_		Change		INO ACTION	Change			Change		NO ACTION	
0 - 2,000 acres	8		10	2	25%	9	1	13%	10	2	25%	10	2	259
2,000 - 3,000 acres	2	2	1	-1	-50%	1	-1	-50%	1	-1	-50%	1	-1	-509
3,000 - 5,000 acres	0	)	0	0	-	0	(	-	C	0	-	0	0	-
>5,000 acres	3	3	3	0	0%	3	(	0%	3	0	0%	3	0	09
-,	+				Ereguency	of All Peacher	Habitat Area		ants Lasting N	Nore Than 24 Da	ave in March			
	_	_		Alt d A		or All Reaches			Lasting iv		<del>/                                      </del>		Alta Directoria	D
				Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	$\overline{}$	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,000 acres	11		14	3	27%	13	2	18%	14	3	27%	13	2	189
2,000 - 3,000 acres	6	5	1	-5	-83%	1	-9	-83%	2	-4	-67%	0	-6	-1009
3,000 - 5,000 acres	0	1	0	0		0	(		C	0		0	0	
3,000 3,000 uci cs														
> F 000 aarea	1	1	_			-	,					,	-	
>5,000 acres	2	2	2	0	0%	2	(	0%	2	. 0	0%	2	0	
>5,000 acres	2		2	0	0% Frequency	of All Reache	s Habitat Area	0% Inundation Ev	ents Lasting I	More Than 24 D	0% Days in April	2	_	09
>5,000 acres	2		2		0% Frequency Percent	of All Reache	es Habitat Area Alt 1B minus	Inundation Ev	zents Lasting I	Alt 2 minus	0% Days in April Percent	2	Alt 3 minus	
>5,000 acres  Area Range	No Action	Alt 1A	2	0	0% Frequency	of All Reache Alt 1B	s Habitat Area	0% Inundation Ev	vents Lasting I		0% Days in April	Alt 3	_	09
	No Action	Alt 1A	2	0 Alt 1A minus	0% Frequency Percent		Alt 1B minus No Action	Inundation Ev		Alt 2 minus No Action	0% Days in April Percent Change	Alt 3	Alt 3 minus	Percent Change
Area Range 0 - 2,000 acres	10	Alt 1A	10	Alt 1A minus No Action	0% Frequency Percent Change	Alt 1B	Alt 1B minus No Action	Inundation Ex Percent Change	Alt 2	Alt 2 minus No Action	0% Days in April Percent Change	10	Alt 3 minus No Action	Percent Change
Area Range 0 - 2,000 acres 2,000 - 3,000 acres	10 4	Alt 1A	10 4	O Alt 1A minus No Action 0 0	0% Frequency Percent Change	Alt 1B 12	Alt 1B minus No Action	Inundation Every Percent Change 2 20%	Alt 2 10	Alt 2 minus No Action 0 0 -1	0% Days in April Percent Change 0% -25%	10	Alt 3 minus No Action	Percent Change
Area Range 0 - 2,000 acres 2,000 - 3,000 acres 3,000 - 5,000 acres	10 4 0	Alt 1A	10 4 0	Alt 1A minus No Action 0 0 0	0% Frequency Percent Change 0%	Alt 1B 12 4	Alt 1B minus No Action	Inundation Experience Percent Change 2 20% 0 0%	Alt 2	Alt 2 minus No Action 0 0 -1	0% Days in April Percent Change 0% -25%	10 4 0	Alt 3 minus No Action 0	Percent Change
Area Range 0 - 2,000 acres 2,000 - 3,000 acres	10 4	Alt 1A	10 4	O Alt 1A minus No Action 0 0	0% Frequency Percent Change 0% 0% -	Alt 1B 12 4 0 0	es Habitat Area Alt 1B minus No Action	Inundation Experience Change 20% 0 0% 0 -	Alt 2 10 3	Alt 2 minus No Action 0 6 -1 0 0	0% Days in April Percent Change 0% -25%	10	Alt 3 minus No Action 0	Percent Change
Area Range 0 - 2,000 acres 2,000 - 3,000 acres 3,000 - 5,000 acres	10 4 0	Alt 1A	10 4 0 0	Alt 1A minus No Action  0 0 0	0% Frequency Percent Change 0% 0% Frequency	Alt 1B 12 4 0 0	Alt 1B minus No Action  C  C  C  S  Habitat Area	Inundation Every Percent Change 2 20%  O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Alt 2 10 3	Alt 2 minus No Action  0  -1 0 0 More Than 24 E	O% Days in April Percent Change O% -25% - Days in May	10 4 0	Alt 3 minus No Action 0 0	Percent Change
Area Range 0 - 2,000 acres 2,000 - 3,000 acres 3,000 - 5,000 acres	10 4 0	Alt 1A	10 4 0 0	Alt 1A minus No Action 0 0 0	0% Frequency Percent Change 0% 0% -	Alt 1B 12 4 0 0	es Habitat Area Alt 1B minus No Action	Inundation Experience Change 20% 0 0% 0 -	Alt 2 10 3	Alt 2 minus No Action 0 6 -1 0 0	0% Days in April Percent Change 0% -25%	10 4 0	Alt 3 minus No Action 0	Percent Change
Area Range 0 - 2,000 acres 2,000 - 3,000 acres 3,000 - 5,000 acres >5,000 acres	10 4 0	Alt 1A	10 4 0 0	Alt 1A minus No Action  0 0 0	0% Frequency Percent Change 0% 0% Frequency Percent	Alt 1B 12 4 0 0	Alt 1B minus No Action  C  C  C  S  Habitat Area	Inundation Every Change 20% 0 0% 0 Inundation Every Percent Change 2 10% 0 0% 0 1	Alt 2 10 3	Alt 2 minus No Action  0  -1 0 0 More Than 24 E	0% Days in April Percent Change 0% -25% -Days in May Percent	10 4 0	Alt 3 minus No Action 0 0	Percent Change 09 09
Area Range 0 - 2,000 acres 2,000 - 3,000 acres 3,000 - 5,000 acres >5,000 acres Area Range	10 4 0 0 0 No Action	Alt 1A	10 4 0 0	Alt 1A minus No Action  0 0 0 0 Alt 1A minus	0% Frequency Percent Change 0% 0% - Frequency Percent Change	Alt 1B  12  4  0  of All Reache	ss Habitat Area Alt 1B minus No Action  C C C C Ss Habitat Area Alt 1B minus No Action	0% Inundation Event Change 20% 0% 10	Alt 2  10 3 0 Covents Lasting	Alt 2 minus No Action  0  -1  0  More Than 24 E  Alt 2 minus No Action	0% Percent Change 0% -25% - Days in May Percent Change	10 4 0 0	Alt 3 minus No Action 0 0 0 0 Alt 3 minus	Percent Change 05
Area Range 0 - 2,000 acres 2,000 - 3,000 acres 3,000 - 5,000 acres >5,000 acres  Area Range 0 - 2,000 acres	10 4 0 0 0 No Action	Alt 1A Alt 1A Alt 1A	10 4 0 0	Alt 1A minus No Action  0 0 0 0 Alt 1A minus No Action 6	0% Frequency Percent Change 0% 0% - Frequency Percent Change	Alt 1B  12  4  0  of All Reache  Alt 1B	ss Habitat Area Alt 1B minus No Action  C C cs Habitat Area Alt 1B minus No Action	Inundation Every E	Alt 2  10  3  C  vents Lasting  Alt 2	Alt 2 minus No Action  0 0 1 0 0 0 0 More Than 24 E Alt 2 minus No Action 5	0% Days in April Percent Change 0% -25% - Days in May Percent Change	10 4 0 0 0	Alt 3 minus No Action 0 0 0 0 Alt 3 minus No Action 3	Percent Change  05 07 - Percent Change 175
Area Range 0 - 2,000 acres 2,000 - 3,000 acres 3,000 - 5,000 acres >5,000 acres Area Range 0 - 2,000 acres 2,000 - 3,000 acres	10 4 0 0 0 No Action 18	Alt 1A	10 4 0 0	Alt 1A minus No Action 0 0 0 0 Alt 1A minus No Action 6 -3	0% Frequency Percent Change 0% 0% - Frequency Percent Change	Alt 1B  12  4  0  0  of All Reacher  Alt 1B  21  6	ss Habitat Area Alt 1B minus No Action  C C Ss Habitat Area Alt 1B minus No Action  Alt 1B minus No Action	0% Inundation Ev Percent Change 1 0% 1 - 0% 1 - 1 Inundation Ev Percent Change 1 17% 1 - 33%	Alt 2  10 3 0 Covents Lasting	Alt 2 minus No Action  0  -1  0  More Than 24 E Alt 2 minus No Action  5  -3	0% Days in April Percent Change 0% -25% - Days in May Percent Change	10 4 0 0 0 Alt 3	Alt 3 minus No Action 0 0 0 0 Alt 3 minus No Action	Percent Change  05 07 - Percent Change 175
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Figure 2. Average Annual All Reaches Habitat Area Inundation Events.



Table 5. Average Annual All Reaches Habitat Area Inundation Events.

Table 5. Average	Annuai Aii	Reaches H	abitat Area	inundatioi	n Events.								
	Average Annual All Reaches Habitat Area Inundation Events Lasting 8 - 17 Days												
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,000 acres	0.79	0.83	0.04	5%	0.84	0.05	6%	0.82	0.02	3%	0.84	0.05	6%
2,000 - 3,000 acres	1.74	1.54	-0.21	-12%	1.54	-0.21	-12%	1.51	-0.23	-13%	1.59	-0.16	-9%
3,000 - 5,000 acres	0.28	0.23	-0.05	-17%	0.24	-0.04	-13%	0.24	-0.04	-13%	0.24	-0.04	-13%
>5,000 acres	0.45	0.44	-0.01	-3%	0.41	-0.04	-8%	0.44	-0.01	-3%	0.44	-0.01	-3%
				Ave	rage Annual A	ll Reaches Habi	tat Area Inun	dation Events	Lasting 18 - 24	Days			
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,000 acres	0.24	0.29	0.05	20%	0.30	0.06	25%	0.29	0.05	20%	0.32	0.07	30%
2,000 - 3,000 acres	0.45	0.52	0.07	16%	0.51	0.06	14%	0.51	0.06	14%	0.45	0.00	0%
3,000 - 5,000 acres	0.02	0.01	-0.01	-50%	0.01	-0.01	-50%	0.01	-0.01	-50%	0.01	-0.01	-50%
>5,000 acres	0.15	0.13	-0.01	-8%	0.13	-0.01	-8%	0.13	-0.01	-8%	0.12	-0.02	-17%
				Average	e Annual All Re	eaches Habitat	Area Inundati	on Events Las	ting More Than	24 Days			
			Alt 1A minus	Percent		Alt 1B minus	Percent		Alt 2 minus	Percent		Alt 3 minus	Percent
Area Range	No Action	Alt 1A	No Action	Change	Alt 1B	No Action	Change	Alt 2	No Action	Change	Alt 3	No Action	Change
0 - 2,000 acres	2.12	2.27	0.15	7%	2.24	0.12	6%	2.28	0.16	7%	2.22	0.10	5%
2,000 - 3,000 acres	0.67	0.52	-0.15	-22%	0.52	-0.15	-22%	0.52	-0.15	-22%	0.51	-0.16	-24%
3,000 - 5,000 acres	0.00	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-
>5,000 acres	0.09	0.09	0.00	0%	0.09	0.00	0%	0.09	0.00	0%	0.09	0.00	0%

<sup>\*</sup>Based on total events in 82 year simulation period.