

Alternative 2B/3E

Flow @ I St.	Flow diverted @ Hood	Percent flow diverted @ Hood	10 percent loss of chinook at Hood screens	Percent survival immediately below Hood
28,000	7,000	25.0	2.5	97.5
24,000	7,000	29.2	2.9	97.1
20,000	7,000	35.0	3.5	96.5
16,000	7,000	43.8	4.4	95.6
12,000	7,000	58.3	5.8	94.2

Alternative 2B/3E (Assumes DCC closed)

Flow @ I St.	Percent flow diverted through Georgiana Slough (assume)	Percent of chinook diverted through Georgiana Slough	Percent survival of chinook diverted through Georgiana Slough (.33 fixed rate)	Percent of chinook remaining in Sac River	Percent survival of chinook remaining in Sac River (.66 fixed rate)	Sum of survival rates (sum of GS and Sac River survival)	Adjust for survival @ Hood	Total survival
28,000	.10	.10	.033	.90	$(.66)(.90)=.594$	.627	.975	.611
24,000	.15	.15	.05	.85	$(.66)(.85)=.561$	.611	.971	.593
20,000	.20	.20	.066	.80	$(.66)(.80)=.528$	.594	.965	.573
16,000	.25	.25	.083	.75	$(.66)(.75)=.495$	.578	.956	.553
12,000	.30	.30	.099	.70	$(.66)(.70)=.462$	.561	.942	.528

Just a quick comparison with Alternative 1C

Assume DCC open

Assumes 24,000 cfs @ I street

Assumes 24% of chinook diverted at DCC

Assumes 14% of (100-24) diverted a GS (14% of 76%)=10.6% [not certain this correction necessary]

THEREFORE 24+10.6 (34.6%) of chinook salmon are diverted from the Sac River and 65.4% remain in Sac River

Assumes Central Delta survival of .33

Assumes Sac River survival of .66

$$(.33)(.346)=.114$$

$$(.66)(.654)=.432$$

.114+.432=.546 total survival which compares to .593 survival under Alternatives 2B/3E for I street flow of 24,000.

(Difference of 7.9%)

If the values of 24% and 14% don't need correction then

Assume 38% of chinook are diverted and 62% remain in Sac River

$$(.33)(.38)=.125 \text{ total survival through Delta}$$

$$(.66)(.62)=.409 \text{ total survival in Sac river}$$

.125+.409=.534 total survival which compares to .593 survival under Alternatives 2B/3E for I street flow of 24,000.

(Difference of 10.5%)

Assume DCC Closed

Assume 14% of chinook are diverted and 86% remain in Sac River

$$(.33)(.14)=.046 \text{ total survival through Delta}$$

$$(.66)(.84)=.554 \text{ total survival in Sac river}$$

.046+.554=.60 total survival which compares to .593 survival under Alternatives 2B/3E for I street flow of 24,000.