Preliminary Results WRLCM RocOn COS and PA Analysis

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RocOn with Newman

Using equations from Newman (2003) to incorporate the following effects on smolt survival:

- Smolt Size
- Log flow at Hood
- Exports
- DCC Gate Position
- Sacramento Indicator

Abundance and CRR Metrics

Abundance

Mean difference in	95% Interval in difference	Probability average
abundance (PA-COS)/COS	in abundance (PA-COS)/COS	abundance in PA > average
*100%	*100%	abundance in COS
-3.05%	(-8.07%, 0.137%)	0.03

Cohort replacement rate

Mean magnitude of percent95% Interval in percent		
difference (PA-COS)/COS	difference of CRR (PA-	Probability that CRR in PA >
*100%	COS)/COS *100%	CRR in COS
0.549%	(0.099,%, 1.00%)	0.993

Annual Percent difference in abundance (PA – COS)/COS x 100%



Annual Percent difference in CRR 100% (PA – COS)/COS





Survival rates by stage



Egg Survival for Spawning in May



Egg Survival for Spawning in Jun



Egg Survival for Spawning in Jul



Egg Survival for Spawning in Aug



Upper River smolt survival

Upper River Smolt Survival (origin to Chipps) in Jan



Upper River Smolt Survival (origin to Chipps) in Feb



Upper River Smolt Survival (origin to Chipps) in Mar



Upper River Smolt Survival (origin to Chipps) in May



Upper River Smolt Survival (origin to Chipps) in Apr



Lower River smolt survival

Lower River Smolt Survival (origin to Chipps) in Jan



Lower River Smolt Survival (origin to Chipps) in Feb



Lower River Smolt Survival (origin to Chipps) in Mar



Lower River Smolt Survival (origin to Chipps) in May



Lower River Smolt Survival (origin to Chipps) in Apr



Yolo survival

Yolo Smolt Survival (origin to Chipps) in Jan



Yolo Smolt Survival (origin to Chipps) in Feb



Yolo Smolt Survival (origin to Chipps) in Mar



Yolo Smolt Survival (origin to Chipps) in May



Yolo Smolt Survival (origin to Chipps) in Apr



Delta smolt survival

Delta Smolt Survival (origin to Chipps) in Jan



Delta Smolt Survival (origin to Chipps) in Feb



Delta Smolt Survival (origin to Chipps) in Mar



Delta Smolt Survival (origin to Chipps) in May



Delta Smolt Survival (origin to Chipps) in Apr

