Juvenile Salmon Mainstem Monitoring Program

Contents


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Introduccion

A statistical analysis was conducted to determine which environmental covariates were related to the efficiency of rotary screw traps operated at the Red Bluff Diversion Dam trap site on the Sacramento River Mainstem. That analysis suggests that LunarPhase, Mean- FLRelease andWaterTemperature were not significantly related to trap efficiency. In contrast, the analysis suggests that PercQ, Turbidity, RiverDepth andWeather were significantly related to trap efficiency.

Table 1: This table represents Winter juvenile salmon run for 2012 brood year (s)

StationCode	SampleDate	WaterTemperature	Turbidity	ForkLength	Count	year	race2	week	month
Gate 6	2012-02-17	49.2	2.07	95	2	2012	Winter	07	February
Gate 7	2012-10-25	53.5	1.18	62	3	2012	Winter	43	October
Gate 6	2012-10-14	55.5	1.48	57	1	2012	Winter	41	October
Gate 7	2012-10-26	53.5	1.22	47	2	2012	Winter	43	October
Gate 8	2012-11-03	54.7	1.45	65	1	2012	Winter	44	November
Gate 8	2012-12-09	50.2	14.30	49	1	2012	Winter	49	December
Gate 8	2012-10-04	57.1	1.17	33	4	2012	Winter	40	October
Gate 7	2012-02-14	49.6	6.53	76	1	2012	Winter	07	February
Gate 8	2012-10-20	55.4	1.15	39	7	2012	Winter	42	October
Gate 7	2012-09-09	57.9	1.02	38	1	2012	Winter	36	September
Gate 6	2012-10-14	55.5	1.48	38	7	2012	Winter	41	October
Gate 8	2012-12-14	48.3	14.00	60	1	2012	Winter	50	December
Gate 6	2012-01-31	48.6	2.70	90	1	2012	Winter	05	January
Gate 8	2012-11-16	53.0	1.14	60	2	2012	Winter	46	November
Gate 7	2012-11-13	52.1	1.29	55	10	2012	Winter	46	November

Table 2: This table represents Winter juvenile salmon run for 2012 brood year (s)

race2	year	total
Winter	2012	29,537

Summary tables using tab1

Table 3: Summary Table

	Overall
	(N=29537)
race2	
Winter	29,537 (100.0%)
StationCode	
Gate 3	3,334 (11.3%)
Gate 6	8,857 (30.0%)
Gate 7	10,900 (36.9%)
Gate 8	6,446 (21.8%)
year	
2012	29,537 (100.0%)
ForkLength	
Mean (SD)	43.9 (13.9)
Median [Min, Max]	37.0 [28.0, 165]

Table 4: Runs by sampling station (screwtrap) and summary forklength in mm

	2012
	Winter
	(N=29537)
StationCode	
Gate 3	3,334 (11.3%)
Gate 6	8,857 (30.0%)
Gate 7	10,900 (36.9%)
Gate 8	6,446 (21.8%)
ForkLength	
Min	28.0
Max	165
Median	37.0
Mean	43.9
SD	13.9