



# FISH PASSAGE CENTER

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## MEMORANDUM

TO: FPOM Condition Monitoring Subgroup

FROM: Fish Passage Center

DATE: September 17, 2008

RE: List of Condition Metrics for comment and discussion on Sept. 29 Conference Call

For discussion:

Table 1 below is a list of condition metrics we have identified to date based on discussions with FPAC and FPOM. Please review the list and determine if any additional condition metrics are necessary to provide the level of detail necessary to carry out the objectives of the monitoring.

There are a couple of items that are worth pointing out, as they were not in the original list as presented at the September 11 FPOM meeting. First, based on discussions at the FPOM meeting, we have included a separate descaling category (>20%) for those fish whose descaling is known to be from a predator (e.g., bird). Second, we have included a separate condition category (Other) where two additional metrics will be recorded. The first of these metrics is Fin Inflammation (i.e., fin pinkness). The second metric will be "user defined", which is where the sites will have the ability to record any additional fish condition data that they want to.

The FPC power point presentation to FPOM can be found on the FPC website  
At [http://www.fpc.org/documents/misc\\_reports/Smolt%20Monitoring%202009.pdf](http://www.fpc.org/documents/misc_reports/Smolt%20Monitoring%202009.pdf)

Table 1. Condition Metrics identified for condition sampling.

<b>Category</b>	<b>Condition Metric</b>
<b>Head Injuries</b>	
	Eye Injury
	Pop Eye
	Operculum
	Head Inj. Other
<b>Body Injuries</b>	
	Body Injury*
	Fin Injury*
<b>Predation</b>	
	Fish
	Bird
	Lamprey
	Pred. Other
<b>Disease</b>	
	Fungus
	Columnaris
	BKD
	Parasite
	Deformity
	Disease Other
<b>Descaling</b>	
	Descaled (0-5%)
	Descaled (6-19%)
	Descaled ( $\geq 20\%$ )
	Descaled ( $\geq 20\%$ ) due to predator
<b>Other</b>	
	Fin Inflammation/(Pinkness)
	Site specific conditions – (aka user defined)

\* Note that injury would include any lacerations, abrasions, clouded tissue or hemorrhage in the body part indicative of an injury. We will refine definitions for the final protocol.