| Stage | LF\_Name | Current and Future Rating |
| --- | --- | --- |
| Terminal Migration | LF4: Mortality or fitness reduction as a result of disease, parasites, or pathogens | HPDG |
| Terminal Migration | LF10: Mortality or fitness reduction of wild fish due to competition with hatchery fish or aquaculture escapees for spawning locations or mates | HPDG |
| Terminal Migration | LF13: Mortality or fitness reduction as a result of poor pH levels | HPDG |
| Terminal Migration | LF14: Mortality or fitness reduction as a result of changes to salinity | HPDG |
| Terminal Migration | LF15: Mortality or fitness reduction due to deleterious substances | HPDG |
| Incubation | LF20: Mortality or fitness reduction due to redd overspawn | HPDG |
| Incubation | LF25: Mortality or fitness reduction due to lower quality spawning gravel | HPDG |
| Incubation | LF26: Mortality or fitness reduction due to unfavourable water temperatures | HPDG |
| Incubation | LF27: Mortality or fitness reduction as a result of low dissolved oxygen | HPDG |
| Incubation | LF28: Mortality or fitness reduction as a result of poor pH levels | HPDG |
| Incubation | LF29: Mortality or fitness reduction due to deleterious substances | HPDG |
| Freshwater Rearing | LF30: Mortality or fitness reduction as a result of elevated predation | HPDG |
| Freshwater Rearing | LF33: Mortality or fitness reduction as a result of disease, parasites, or pathogens | HPDG |
| Freshwater Rearing | LF35: Mortality or fitness reduction as a result of lack of access to appropriate food | HPDG |
| Freshwater Rearing | LF36: Mortality or fitness reduction as a result of decreased quality of rearing habitat | HPDG |
| Freshwater Rearing | LF37: Mortality or fitness reduction as a result of decreased quantity of rearing habitat | HPDG |
| Freshwater Rearing | LF38: Mortality or fitness reduction as a result of decreased access to or quality of floodplain habitat | HPDG |
| Freshwater Rearing | LF40: Mortality or fitness reduction due to frequent and higher peak flows causing flushing | HPDG |
| Freshwater Rearing | LF41: Mortality or fitness reduction as a result of competition with hatchery fry | HPDG |
| Freshwater Rearing | LF42: Mortality or fitness reduction due to unfavourable water temperatures | HPDG |
| Freshwater Rearing | LF43: Mortality or fitness reduction as a result of low dissolved oxygen | HPDG |
| Freshwater Rearing | LF44: Mortality or fitness reduction as a result of poor pH levels | HPDG |
| Freshwater Rearing | LF45: Mortality or fitness reduction as a result of deleterious substances | HPDG |
| Estuary Rearing | LF49: Mortality or fitness reduction due to inter- and intra-specific competition | HPDG |
| Estuary Rearing | LF51: Mortality or fitness reduction as a result of disease, parasites, or pathogens | HPDG |
| Estuary Rearing | LF52: Mortality or fitness reduction as a result of lack of access to appropriate food | HPDG |
| Estuary Rearing | LF54: Mortality or fitness reduction due to reduction in quality of beach habitat | HPDG |
| Estuary Rearing | LF55: Mortality or fitness reduction due to loss in quantity of beach habitat loss | HPDG |
| Estuary Rearing | LF56: Mortality or fitness reduction due to reduction in quality channel habitat | HPDG |
| Estuary Rearing | LF57: Mortality or fitness reduction due to reduction in quantity channel habitat | HPDG |
| Estuary Rearing | LF58: Mortality or fitness reduction due to reduction in quality of vegetation habitat | HPDG |
| Estuary Rearing | LF59: Mortality or fitness reduction due to reduction in quantity of vegetation habitat | HPDG |
| Estuary Rearing | LF60: Mortality or fitness reduction due to competition with hatchery fish | HPDG |
| Estuary Rearing | LF61: Mortality or fitness reduction due to unfavourable water temperatures | HPDG |
| Estuary Rearing | LF62: Mortality or fitness reduction as a result of low dissolved oxygen | HPDG |
| Estuary Rearing | LF63: Mortality or fitness reduction as a result of poor pH levels | HPDG |
| Estuary Rearing | LF64: Mortality or fitness reduction due to increases in salinity | HPDG |
| Estuary Rearing | LF65: Mortality or fitness reduction due to deleterious substances | HPDG |
| Biological Characteristics and Genetics | LF67: Mortality or fitness reduction due changes in biological characteristics such as fecundity, maturation rate, sex ratios, size at age, etc | HPDG |
| Biological Characteristics and Genetics | LF68: Mortality or fitness reduction due to a reduction in natural (wild) genetic influence. This is measured by the stray rate (pHOSstray) into the system, or by the frequency and magnitude of direct transplanting. | HPDG |
| Biological Characteristics and Genetics | LF69: Mortality or fitness reduction as a result of rearing in a hatchery environment leading to maladaptation to the wild environment. This is measured in a reduction in PNI. | HPDG |
| Biological Characteristics and Genetics | LF70: Mortality or fitness reduction due to negative effects of small population size - including inbreeding depression and gene flow | HPDG |
| Terminal Migration | LF12: Mortality or fitness reduction as a result of low dissolved oxygen | LPDG |
| Incubation | LF19: Mortality or fitness reduction due to early alevin emergence | LPDG |
| Freshwater Rearing | LF31: Mortality or fitness reduction due to elevated predation as a result of enhancement of predatory fish species | LPDG |
| Freshwater Rearing | LF46: Mortality or fitness reduction due to ingestion of microplastics in lake environments | LPDG |
| Estuary Rearing | LF66: Mortality or fitness reduction due to ingestion of microplastics | LPDG |