

M A F A C C B P T A S K F O R C E

A LA CARTE BIOLOGICAL STRATEGY OPTION MATRIX

	Column A	Column B	Column C	Column D
	Increasing level of effort and/or resources			
Tributary Habitat	Protection of significant existing habitats to ensure no further degradation or loss.	Opportunistic, incremental restoration of key habitats throughout the region.	Enhanced resources and dedicated effort to restore selected priority areas to a high level of function.	Further enhanced resources and largescale, process-based restoration of habitat function.
Estuary Habitat	Protection of significant existing habitats to ensure no further degradation or loss.	Opportunistic, incremental restoration of key limiting habitats	Enhanced resources and dedicated effort to restore selected priority areas to a high level of fish function.	Further enhanced resources and largescale process-based restoration of habitat condition and function.
Mainstem migration	Provide for fish passage and optimize survival consistent with competing demands for power, transportation, flood control, etc.	Dedicated efforts to substantially improve fish passage and survival through significant modifications of hydro system operation and configuration.	Enhanced measures to improve system survival (in river & latent) within the (large-scale) limitations of current system configuration (experimental spill program, etc.)	Targeted restoration of normative river conditions and function (dam breaching, natural hydrograph, flooding, temperature)
Blocked areas	Resident fish substitution in areas of the historical anadromous distribution which are currently not currently accessible.	Limited adult releases in currently blocked historical production areas to provide fishing opportunities and assess natural production potential of current habitats.	Experimental reintroduction with interim hatchery supplementation concurrent with evaluation of passage potential.	Restore effective adult and juvenile passage consistent with high levels of self-sustaining natural abundance and production in historical ranges.
Predation	Predator populations regulated by extant conditions independent of directed management actions by humans.	Nonlethal measures designed to discourage predation by key predators in focal problem areas.	Lethal but limited removal of problem animals of key predators in specific areas or as part of redistribution efforts.	Population scale removals to reduce numbers and corresponding predation impacts.
Harvest	Harvest healthy stocks consistent with optimum and/or maximum sustained yields and fair allocation among users.	Abundance-based management to optimize and share harvest consistent with the needs of spawning escapement and weak stock limitations.	Curtail or eliminate directed fisheries and limit incidental impacts to <i>de minimis</i> levels which do not impede recovery.	Close or severely limit all harvest to maximize natural spawning escapement. (Interim measure to restore natural diversity, distribution & productivity.)
Hatcheries	Large-scale hatchery production to support fisheries as mitigation for lost natural production as the primary objective.	Expand hatchery supplementation efforts to bolster local returns, harvest and natural production.	Limit hatchery release numbers and locations, and reform hatchery programs to control impacts/risks in key natural production areas.	Curtail hatchery production except for critical conservation or reintroduction purposes.

(shaded cells show approximately the current strategy)

Note also that a variety of actions or measures may be undertaken consistent with each strategy.