

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Alkalinity	Bed scour	Benthos diversity and production	Channel length	Channel width - month maximum width (ft)	Channel width - month minimum width (ft)	Confinement - Hydro-modifications	Confinement - natural	Dissolved oxygen
Hab-1.0	Reduce agricultural impacts to riparian/ aquatic ecosystem		1	1		2	1	2		
Hab-2.0	Competitor control									
Hab-3.0	Sediment reduction		1	1						
Hab-4.0	Floodplain corridor reconnection		2							
Hab-5.0	Regulate tributary storage releases to provide normative flows.						2			
Hab-6.0	Reduce forestry impacts to riparian/ aquatic ecosystem		1					1		
Hab-7.0	Agricultural water conservation						2			
Hab-8.0	Irrigation waste water treatment			1						
Hab-9.0	Irrigation withdrawals screening									
Hab-10.0	Municipal waste management			1						1
Hab-11.0	Nutrient and pathogen load reduction from grazing/agriculture			1						
Hab-12.0	Obstruction passage improvement									
Hab-13.0	Obstruction removal									
Hab-14.0	Pesticide/herbicide reduction			2						
Hab-15.0	Reintroduction of species									
Hab-16.0	Predator control									
Hab-16.1	Control predatory fish									
Hab-16.2	Control predatory birds									
Hab-16.3	Control mammalian predators									
Hab-17.0	Reduce grazing impacts to riparian/ aquatic ecosystem		1	1		2	1	2		
Hab-18.0	Establish aquatic reserves, preserves, refugia									
Hab-18.1	Establish terrestrial reserves, preserves, refugia									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Embeddedness	Fine sediment	Fish community richness	Fish pathogens	Fish species introductions	Flow - change in interannual variability in high flows	Flow - changes in interannual variability in low flows	Flow - Intra daily (diel) variation	Flow - intra-annual flow pattern
Hab-1.0	Reduce agricultural impacts to riparian/ aquatic ecosystem	1	1				1	1		1
Hab-2.0	Competitor control									
Hab-3.0	Sediment reduction	1	1							
Hab-4.0	Floodplain corridor reconnection		2							
Hab-5.0	Regulate tributary storage releases to provide normative flows.							2		
Hab-6.0	Reduce forestry impacts to riparian/ aquatic ecosystem	1	1				1			
Hab-7.0	Agricultural water conservation							2		
Hab-8.0	Irrigation waste water treatment	2	2							
Hab-9.0	Irrigation withdrawals screening									
Hab-10.0	Municipal waste management									
Hab-11.0	Nutrient and pathogen load reduction from grazing/agriculture									
Hab-12.0	Obstruction passage improvement									
Hab-13.0	Obstruction removal									
Hab-14.0	Pesticide/herbicide reduction									
Hab-15.0	Reintroduction of species									
Hab-16.0	Predator control									
Hab-16.1	Control predatory fish									
Hab-16.2	Control predatory birds									
Hab-16.3	Control mammalian predators									
Hab-17.0	Reduce grazing impacts to riparian/ aquatic ecosystem	2	2				1	1		1
Hab-18.0	Establish aquatic reserves, preserves, refugia									
Hab-18.1	Establish terrestrial reserves, preserves, refugia									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Gradient	Habitat type - backwater pools	Habitat type - beaver ponds	Habitat type - large cobble/boulder riffles	Habitat type - off-channel habitat factor	Habitat type - pool tailouts/glides	Habitat type - primary pools	Habitat type - small cobble/gravel riffles	Harassment
Hab-1.0	Reduce agricultural impacts to riparian/ aquatic ecosystem		1	1		1	1	1	1	
Hab-2.0	Competitor control									
Hab-3.0	Sediment reduction									
Hab-4.0	Floodplain corridor reconnection		2	2		2				
Hab-5.0	Regulate tributary storage releases to provide normative flows.									
Hab-6.0	Reduce forestry impacts to riparian/ aquatic ecosystem		1			1		1		
Hab-7.0	Agricultural water conservation									
Hab-8.0	Irrigation waste water treatment									
Hab-9.0	Irrigation withdrawals screening									
Hab-10.0	Municipal waste management									
Hab-11.0	Nutrient and pathogen load reduction from grazing/agriculture									
Hab-12.0	Obstruction passage improvement									
Hab-13.0	Obstruction removal									
Hab-14.0	Pesticide/herbicide reduction									
Hab-15.0	Reintroduction of species									
Hab-16.0	Predator control									
Hab-16.1	Control predatory fish									
Hab-16.2	Control predatory birds									
Hab-16.3	Control mammalian predators									
Hab-17.0	Reduce grazing impacts to riparian/ aquatic ecosystem		1	1		1	1	1	2	
Hab-18.0	Establish aquatic reserves, preserves, refugia		1	1		1				
Hab-18.1	Establish terrestrial reserves, preserves, refugia									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Hatchery fish outplants	Hydrologic regime - natural	Hydrologic regime - regulated	Icing	Metals/Pollutants - in sediments/soils	Metals - in water column	Miscellaneous toxic pollutants - water column	Nutrient enrichment	Obstructions to fish migration
Hab-1.0	Reduce agricultural impacts to riparian/ aquatic ecosystem				2				1	
Hab-2.0	Competitor control	2								
Hab-3.0	Sediment reduction									
Hab-4.0	Floodplain corridor reconnection									
Hab-5.0	Regulate tributary storage releases to provide normative flows.									
Hab-6.0	Reduce forestry impacts to riparian/ aquatic ecosystem									
Hab-7.0	Agricultural water conservation									
Hab-8.0	Irrigation waste water treatment							1	1	
Hab-9.0	Irrigation withdrawals screening									
Hab-10.0	Municipal waste management							1	1	
Hab-11.0	Nutrient and pathogen load reduction from grazing/agriculture							1	1	
Hab-12.0	Obstruction passage improvement									3
Hab-13.0	Obstruction removal									4
Hab-14.0	Pesticide/herbicide reduction							2		
Hab-15.0	Reintroduction of species									
Hab-16.0	Predator control									
Hab-16.1	Control predatory fish									
Hab-16.2	Control predatory birds									
Hab-16.3	Control mammalian predators									
Hab-17.0	Reduce grazing impacts to riparian/ aquatic ecosystem				2				1	
Hab-18.0	Establish aquatic reserves, preserves, refugia									
Hab-18.1	Establish terrestrial reserves, preserves, refugia									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Predation risk	Riparian function	Salmon Carcasses	Temperature - daily maximum (by month)	Temperature - daily minimum (by month)	Temperature - spatial variation	Turbidity	Water withdrawals	Wood
Hab-1.0	Reduce agricultural impacts to riparian/ aquatic ecosystem		1		1	1	1	1	1	1
Hab-2.0	Competitor control									
Hab-3.0	Sediment reduction									
Hab-4.0	Floodplain corridor reconnection		2		2	2	2	2		2
Hab-5.0	Regulate tributary storage releases to provide normative flows.									
Hab-6.0	Reduce forestry impacts to riparian/ aquatic ecosystem		1		1	1	1	1		1
Hab-7.0	Agricultural water conservation									
Hab-8.0	Irrigation waste water treatment							2		
Hab-9.0	Irrigation withdrawals screening								3	
Hab-10.0	Municipal waste management									
Hab-11.0	Nutrient and pathogen load reduction from grazing/agriculture									
Hab-12.0	Obstruction passage improvement									
Hab-13.0	Obstruction removal									
Hab-14.0	Pesticide/herbicide reduction									
Hab-15.0	Reintroduction of species									
Hab-16.0	Predator control									
Hab-16.1	Control predatory fish	2								
Hab-16.2	Control predatory birds	2								
Hab-16.3	Control mammalian predators	2								
Hab-17.0	Reduce grazing impacts to riparian/ aquatic ecosystem		2		2	2	2	2	2	2
Hab-18.0	Establish aquatic reserves, preserves, refugia		1				1			1
Hab-18.1	Establish terrestrial reserves, preserves, refugia									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Alkalinity	Bed scour	Benthos diversity and production	Channel length	Channel width - month maximum width (ft)	Channel width - month minimum width (ft)	Confinement - Hydro-modifications	Confinement - natural	Dissolved oxygen
Hab-19.0	Manage land use and riparian conditions to maintain water quality		1	1						
Hab-20.0	Road management		1	1				2		
Hab-21.0	Habitat fertilization			1						
Hab-22.0	Tributary gravel supply enhancement									
Hab-23.0	Tributary wood supply enhancement									
Hab-24.0	Urban storm runoff control		1							
Hab-25.0	Groundwater management to maintain flow									
Hab-26.0	Connect lower tributaries and mainstem habitat						1			
Hab-27.0	Link terrestrial and aquatic preserves and refugia									
Hab-28.0	Protect high quality aquatic habitat on tribal and public lands while allowing restricted use.									
Hab-29.0	Protect high quality aquatic habitat on private lands while allowing restricted use.									
Hab-30.0	Passive habitat restoration.		2							
Hab-31.0	Active habitat restoration		1							
Hab-32.0	Halt new water withdrawal permits									
Hab-33.0	Reduce existing permits for water withdrawal									
Hab-34.0	Encourage cultivation of less water-intensive crops									
Hab-35.0	and other measures to restore estuarine habitats.							2		
Hab-36.0	Manage dredging to avoid increasing predation.									
Hab-37.0	Develop habitats to link terrestrial preserves and refugia									
Hab-38.0	Protect high quality terrestrial habitats while allowing restricted use.									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Embeddedness	Fine sediment	Fish community richness	Fish pathogens	Fish species introductions	Flow - change in interannual variability in high flows	Flow - changes in interannual variability in low flows	Flow - Intra daily (diel) variation	Flow - intra-annual flow pattern
Hab-19.0	Manage land use and riparian conditions to maintain water quality		2							
Hab-20.0	Road management	2	2				1	1		
Hab-21.0	Habitat fertilization									
Hab-22.0	Tributary gravel supply enhancement									
Hab-23.0	Tributary wood supply enhancement									
Hab-24.0	Urban storm runoff control	1	1				2			2
Hab-25.0	Groundwater management to maintain flow							1		
Hab-26.0	Connect lower tributaries and mainstem habitat							2		
Hab-27.0	Link terrestrial and aquatic preserves and refugia									
Hab-28.0	Protect high quality aquatic habitat on tribal and public lands while allowing restricted use.									
Hab-29.0	Protect high quality aquatic habitat on private lands while allowing restricted use.									
Hab-30.0	Passive habitat restoration.	2	2							
Hab-31.0	Active habitat restoration	1	1							
Hab-32.0	Halt new water withdrawal permits									
Hab-33.0	Reduce existing permits for water withdrawal							1		
Hab-34.0	Encourage cultivation of less water-intensive crops	1	1					1		
Hab-35.0	and other measures to restore estuarine habitats.									
Hab-36.0	Manage dredging to avoid increasing predation.									
Hab-37.0	Develop habitats to link terrestrial preserves and refugia									
Hab-38.0	Protect high quality terrestrial habitats while allowing restricted use.									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Gradient	Habitat type - backwater pools	Habitat type - beaver ponds	Habitat type - large cobble/boulder riffles	Habitat type - off-channel habitat factor	Habitat type - pool tailouts/glides	Habitat type - primary pools	Habitat type - small cobble/gravel riffles	Harassment
Hab-19.0	Manage land use and riparian conditions to maintain water quality		1	1		1				
Hab-20.0	Road management									
Hab-21.0	Habitat fertilization									
Hab-22.0	Tributary gravel supply enhancement								2	
Hab-23.0	Tributary wood supply enhancement		2			2	2	2	2	
Hab-24.0	Urban storm runoff control									
Hab-25.0	Groundwater management to maintain flow									
Hab-26.0	Connect lower tributaries and mainstem habitat									
Hab-27.0	Link terrestrial and aquatic preserves and refugia									
Hab-28.0	Protect high quality aquatic habitat on tribal and public lands while allowing restricted use.									
Hab-29.0	Protect high quality aquatic habitat on private lands while allowing restricted use.									
Hab-30.0	Passive habitat restoration.		2	2		2	2	2	2	
Hab-31.0	Active habitat restoration		1	1		1	1	1	1	
Hab-32.0	Halt new water withdrawal permits									
Hab-33.0	Reduce existing permits for water withdrawal									
Hab-34.0	Encourage cultivation of less water-intensive crops									
Hab-35.0	and other measures to restore estuarine habitats.		2			2				
Hab-36.0	Manage dredging to avoid increasing predation.									
Hab-37.0	Develop habitats to link terrestrial preserves and refugia									
Hab-38.0	Protect high quality terrestrial habitats while allowing restricted use.									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Hatchery fish outplants	Hydrologic regime - natural	Hydrologic regime - regulated	Icing	Metals/Pollutants - in sediments/soils	Metals - in water column	Miscellaneous toxic pollutants - water column	Nutrient enrichment	Obstructions to fish migration
Hab-19.0	Manage land use and riparian conditions to maintain water quality							2	2	
Hab-20.0	Road management									
Hab-21.0	Habitat fertilization									
Hab-22.0	Tributary gravel supply enhancement									
Hab-23.0	Tributary wood supply enhancement									
Hab-24.0	Urban storm runoff control									
Hab-25.0	Groundwater management to maintain flow									
Hab-26.0	Connect lower tributaries and mainstem habitat									
Hab-27.0	Link terrestrial and aquatic preserves and refugia									
Hab-28.0	Protect high quality aquatic habitat on tribal and public lands while allowing restricted use.									
Hab-29.0	Protect high quality aquatic habitat on private lands while allowing restricted use.									
Hab-30.0	Passive habitat restoration.									
Hab-31.0	Active habitat restoration									
Hab-32.0	Halt new water withdrawal permits									
Hab-33.0	Reduce existing permits for water withdrawal									
Hab-34.0	Encourage cultivation of less water-intensive crops									
Hab-35.0	and other measures to restore estuarine habitats.									
Hab-36.0	Manage dredging to avoid increasing predation.									
Hab-37.0	Develop habitats to link terrestrial preserves and refugia									
Hab-38.0	Protect high quality terrestrial habitats while allowing restricted use.									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Predation risk	Riparian function	Salmon Carcasses	Temperature - daily maximum (by month)	Temperature - daily minimum (by month)	Temperature - spatial variation	Turbidity	Water withdrawals	Wood
Hab-19.0	Manage land use and riparian conditions to maintain water quality		2		2	2	2	2		1
Hab-20.0	Road management		1				2	2		
Hab-21.0	Habitat fertilization			1						
Hab-22.0	Tributary gravel supply enhancement									
Hab-23.0	Tributary wood supply enhancement									2
Hab-24.0	Urban storm runoff control									
Hab-25.0	Groundwater management to maintain flow				1	1	1			
Hab-26.0	Connect lower tributaries and mainstem habitat				2		2			
Hab-27.0	Link terrestrial and aquatic preserves and refugia		1				1			1
Hab-28.0	Protect high quality aquatic habitat on tribal and public lands while allowing restricted use.		1				1			1
Hab-29.0	Protect high quality aquatic habitat on private lands while allowing restricted use.		1				1			1
Hab-30.0	Passive habitat restoration.									2
Hab-31.0	Active habitat restoration		1							1
Hab-32.0	Halt new water withdrawal permits									
Hab-33.0	Reduce existing permits for water withdrawal				1		1		1	
Hab-34.0	Encourage cultivation of less water-intensive crops				1		1		1	
Hab-35.0	and other measures to restore estuarine habitats.									
Hab-36.0	Manage dredging to avoid increasing predation.	2								
Hab-37.0	Develop habitats to link terrestrial preserves and refugia									
Hab-38.0	Protect high quality terrestrial habitats while allowing restricted use.		1							1

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Alkalinity	Bed scour	Benthos diversity and production	Channel length	Channel width - month maximum width (ft)	Channel width - month minimum width (ft)	Confinement - Hydro-modifications	Confinement - natural	Dissolved oxygen
Hab-39.0	Limit size and frequency of clearcuts		2							
Hab-40.0	Normative fire frequency									
Hab-41.0	Develop normative forest age structure and species composition									
Hab-42.0	Provide gradual forest ecotones									
Hab-43.0	Reduce forest road density		1							
Hab-44.0	Build storage reservoir to provide downstream flow									
Hab-45.0	Improve mining discharges									
Hab-46.0	Improve mining practices									
Hab-47.0	Rehabilitate marginal and closed mines									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Embeddedness	Fine sediment	Fish community richness	Fish pathogens	Fish species introductions	Flow - change in interannual variability in high flows	Flow - changes in interannual variability in low flows	Flow - Intra daily (diel) variation	Flow - intra-annual flow pattern
Hab-39.0	Limit size and frequency of clearcuts	2	2				2	2		2
Hab-40.0	Normative fire frequency	1	1				1	1		1
Hab-41.0	Develop normative forest age structure and species composition									
Hab-42.0	Provide gradual forest ecotones									
Hab-43.0	Reduce forest road density	1	1							
Hab-44.0	Build storage reservoir to provide downstream flow						1	1		1
Hab-45.0	Improve mining discharges									
Hab-46.0	Improve mining practices									
Hab-47.0	Rehabilitate marginal and closed mines									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Gradient	Habitat type - backwater pools	Habitat type - beaver ponds	Habitat type - large cobble/boulder riffles	Habitat type - off-channel habitat factor	Habitat type - pool tailouts/glides	Habitat type - primary pools	Habitat type - small cobble/gravel riffles	Harassment
Hab-39.0	Limit size and frequency of clearcuts									
Hab-40.0	Normative fire frequency									
Hab-41.0	Develop normative forest age structure and species composition		2	2		2	2	2		
Hab-42.0	Provide gradual forest ecotones									
Hab-43.0	Reduce forest road density									
Hab-44.0	Build storage reservoir to provide downstream flow									
Hab-45.0	Improve mining discharges									
Hab-46.0	Improve mining practices									
Hab-47.0	Rehabilitate marginal and closed mines									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Hatchery fish outplants	Hydrologic regime - natural	Hydrologic regime - regulated	Icing	Metals/Pollutants - in sediments/soils	Metals - in water column	Miscellaneous toxic pollutants - water column	Nutrient enrichment	Obstructions to fish migration
Hab-39.0	Limit size and frequency of clearcuts									
Hab-40.0	Normative fire frequency									
Hab-41.0	Develop normative forest age structure and species composition									
Hab-42.0	Provide gradual forest ecotones									
Hab-43.0	Reduce forest road density									
Hab-44.0	Build storage reservoir to provide downstream flow									
Hab-45.0	Improve mining discharges									
Hab-46.0	Improve mining practices									
Hab-47.0	Rehabilitate marginal and closed mines									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Predation risk	Riparian function	Salmon Carcasses	Temperature - daily maximum (by month)	Temperature - daily minimum (by month)	Temperature - spatial variation	Turbidity	Water withdrawals	Wood
Hab-39.0	Limit size and frequency of clearcuts							2		2
Hab-40.0	Normative fire frequency							1		1
Hab-41.0	Develop normative forest age structure and species composition									2
Hab-42.0	Provide gradual forest ecotones		1							
Hab-43.0	Reduce forest road density						1	1		
Hab-44.0	Build storage reservoir to provide downstream flow									
Hab-45.0	Improve mining discharges									
Hab-46.0	Improve mining practices									
Hab-47.0	Rehabilitate marginal and closed mines									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Alkalinity	Bed scour	Benthos diversity and production	Channel length	Channel width - month maximum width (ft)	Channel width - month minimum width (ft)	Confinement - Hydro-modifications	Confinement - natural	Dissolved oxygen
Har-1.0	Harvest elimination									
Har-2.0	Harvest reduction									
Har-3.0	MSY harvest management									
Har-4.0	Selective fisheries									
Har-5.0	Focus sport or C&S fisheries									
Har-6.0	Weakest population harvest rate									
Har-7.0	Weakest metapopulation harvest rate									
Har-8.0	Manage overall harvest rate to meet escapement needs									
Har-9.0	Use "new" harvest techniques									
Har-10.0	Develop aquaculture									
Har-11.0	Weakest aggregate harvest rate									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Embeddedness	Fine sediment	Fish community richness	Fish pathogens	Fish species introductions	Flow - change in interannual variability in high flows	Flow - changes in interannual variability in low flows	Flow - Intra daily (diel) variation	Flow - intra-annual flow pattern
Har-1.0	Harvest elimination									
Har-2.0	Harvest reduction									
Har-3.0	MSY harvest management									
Har-4.0	Selective fisheries									
Har-5.0	Focus sport or C&S fisheries									
Har-6.0	Weakest population harvest rate									
Har-7.0	Weakest metapopulation harvest rate									
Har-8.0	Manage overall harvest rate to meet escapement needs									
Har-9.0	Use "new" harvest techniques									
Har-10.0	Develop aquaculture									
Har-11.0	Weakest aggregate harvest rate									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Gradient	Habitat type - backwater pools	Habitat type - beaver ponds	Habitat type - large cobble/boulder riffles	Habitat type - off-channel habitat factor	Habitat type - pool tailouts/glides	Habitat type - primary pools	Habitat type - small cobble/gravel riffles	Harassment
Har-1.0	Harvest elimination									
Har-2.0	Harvest reduction									
Har-3.0	MSY harvest management									
Har-4.0	Selective fisheries									
Har-5.0	Focus sport or C&S fisheries									
Har-6.0	Weakest population harvest rate									
Har-7.0	Weakest metapopulation harvest rate									
Har-8.0	Manage overall harvest rate to meet escapement needs									
Har-9.0	Use "new" harvest techniques									
Har-10.0	Develop aquaculture									
Har-11.0	Weakest aggregate harvest rate									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Hatchery fish outplants	Hydrologic regime - natural	Hydrologic regime - regulated	Icing	Metals/Pollutants - in sediments/soils	Metals - in water column	Miscellaneous toxic pollutants - water column	Nutrient enrichment	Obstructions to fish migration
Har-1.0	Harvest elimination									
Har-2.0	Harvest reduction									
Har-3.0	MSY harvest management									
Har-4.0	Selective fisheries									
Har-5.0	Focus sport or C&S fisheries									
Har-6.0	Weakest population harvest rate									
Har-7.0	Weakest metapopulation harvest rate									
Har-8.0	Manage overall harvest rate to meet escapement needs									
Har-9.0	Use "new" harvest techniques									
Har-10.0	Develop aquaculture									
Har-11.0	Weakest aggregate harvest rate									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Predation risk	Riparian function	Salmon Carcasses	Temperature - daily maximum (by month)	Temperature - daily minimum (by month)	Temperature - spatial variation	Turbidity	Water withdrawals	Wood
Har-1.0	Harvest elimination									
Har-2.0	Harvest reduction									
Har-3.0	MSY harvest management									
Har-4.0	Selective fisheries									
Har-5.0	Focus sport or C&S fisheries									
Har-6.0	Weakest population harvest rate									
Har-7.0	Weakest metapopulation harvest rate									
Har-8.0	Manage overall harvest rate to meet escapement needs									
Har-9.0	Use "new" harvest techniques									
Har-10.0	Develop aquaculture									
Har-11.0	Weakest aggregate harvest rate									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Alkalinity	Bed scour	Benthos diversity and production	Channel length	Channel width - month maximum width (ft)	Channel width - month minimum width (ft)	Confinement - Hydro-modifications	Confinement - natural	Dissolved oxygen
Hat-1.0	Incorporate wild fish into hatchery broodstocks									
Hat-2.0	Use natural population as a template for hatchery.									
Hat-3.0	Provide emergency preservation of genetic resources									
Hat-4.0	Phase out hatchery production									
Hat-5.0	Expand hatchery production									
Hat-6.0	Reduce hatchery production									
Hat-7.0	Use wild fish emulation techniques in hatchery.									
Hat-8.0	Reduce spread of hatchery pathogens to wild									
Hat-9.0	Supplement natural production									
Hat-10.0	Reintroduce progeny of captive brood fish back into habitat									
Hat-11.0	Provide mitigation hatcheries									
Hat-12.0	Deveop augmentation hatchery.									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Embeddedness	Fine sediment	Fish community richness	Fish pathogens	Fish species introductions	Flow - change in interannual variability in high flows	Flow - changes in interannual variability in low flows	Flow - Intra daily (diel) variation	Flow - intra-annual flow pattern
Hat-1.0	Incorporate wild fish into hatchery broodstocks									
Hat-2.0	Use natural population as a template for hatchery.									
Hat-3.0	Provide emergency preservation of genetic resources									
Hat-4.0	Phase out hatchery production									
Hat-5.0	Expand hatchery production									
Hat-6.0	Reduce hatchery production									
Hat-7.0	Use wild fish emulation techniques in hatchery.									
Hat-8.0	Reduce spread of hatchery pathogens to wild									
Hat-9.0	Supplement natural production									
Hat-10.0	Reintroduce progeny of captive brood fish back into habitat									
Hat-11.0	Provide mitigation hatcheries									
Hat-12.0	Deveop augmentation hatchery.									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Gradient	Habitat type - backwater pools	Habitat type - beaver ponds	Habitat type - large cobble/boulder riffles	Habitat type - off-channel habitat factor	Habitat type - pool tailouts/glides	Habitat type - primary pools	Habitat type - small cobble/gravel riffles	Harassment
Hat-1.0	Incorporate wild fish into hatchery broodstocks									
Hat-2.0	Use natural population as a template for hatchery.									
Hat-3.0	Provide emergency preservation of genetic resources									
Hat-4.0	Phase out hatchery production									
Hat-5.0	Expand hatchery production									
Hat-6.0	Reduce hatchery production									
Hat-7.0	Use wild fish emulation techniques in hatchery.									
Hat-8.0	Reduce spread of hatchery pathogens to wild									
Hat-9.0	Supplement natural production									
Hat-10.0	Reintroduce progeny of captive brood fish back into habitat									
Hat-11.0	Provide mitigation hatcheries									
Hat-12.0	Deveop augmentation hatchery.									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Hatchery fish outplants	Hydrologic regime - natural	Hydrologic regime - regulated	Icing	Metals/Pollutants - in sediments/soils	Metals - in water column	Miscellaneous toxic pollutants - water column	Nutrient enrichment	Obstructions to fish migration
Hat-1.0	Incorporate wild fish into hatchery broodstocks									
Hat-2.0	Use natural population as a template for hatchery.									
Hat-3.0	Provide emergency preservation of genetic resources									
Hat-4.0	Phase out hatchery production									
Hat-5.0	Expand hatchery production									
Hat-6.0	Reduce hatchery production									
Hat-7.0	Use wild fish emulation techniques in hatchery.									
Hat-8.0	Reduce spread of hatchery pathogens to wild									
Hat-9.0	Supplement natural production	-5								
Hat-10.0	Reintroduce progeny of captive brood fish back into habitat									
Hat-11.0	Provide mitigation hatcheries	-5								
Hat-12.0	Deveop augmentation hatchery.	-5								

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Predation risk	Riparian function	Salmon Carcasses	Temperature - daily maximum (by month)	Temperature - daily minimum (by month)	Temperature - spatial variation	Turbidity	Water withdrawals	Wood
Hat-1.0	Incorporate wild fish into hatchery broodstocks									
Hat-2.0	Use natural population as a template for hatchery.									
Hat-3.0	Provide emergency preservation of genetic resources									
Hat-4.0	Phase out hatchery production									
Hat-5.0	Expand hatchery production									
Hat-6.0	Reduce hatchery production									
Hat-7.0	Use wild fish emulation techniques in hatchery.									
Hat-8.0	Reduce spread of hatchery pathogens to wild									
Hat-9.0	Supplement natural production									
Hat-10.0	Reintroduce progeny of captive brood fish back into habitat									
Hat-11.0	Provide mitigation hatcheries									
Hat-12.0	Deveop augmentation hatchery.									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Alkalinity	Bed scour	Benthos diversity and production	Channel length	Channel width - month maximum width (ft)	Channel width - month minimum width (ft)	Confinement - Hydro-modifications	Confinement - natural	Dissolved oxygen
Hyd-1.0	Channel maintenance flows below dam									
Hyd-2.0	Convert storage reservoir to run-of-river reservoir									
Hyd-3.0	Breach a dam									
Hyd-4.0	Provide alternative fish passage structures and operations to minimize life history selection									
Hyd-5.0	Discourage proliferation of shad via adult passage facilities									
Hyd-6.0	Operate juvenile fish passage facilities year round									
Hyd-7.0	Dam drawdown									
Hyd-8.0	Manage spill to minimize dissolved gas									
Hyd-9.0	Minimize daily flow fluctuations									
Hyd-10.0	Normative seasonal flow and flooding			1						
Hyd-11.0	Provide gravel and organic debris in unimpounded mainstem areas									
Hyd-12.0	Design and implement bypass structures to reflect biological characteristics									
Hyd-13.0	Operate adult passage facilities year-round									
Hyd-14.0	Provide flow to re-establish normative estuarine and plume and salinity conditions.									
Hyd-15.0	Remove economically marginal dams on tributaries that block anadromous passage									
Hyd-16.0	Restore passage for anadromous fish above blockages									
Hyd-17.0	Operate adult passage facilities on an extended schedule									
Hyd-18.0	Operate juvenile passage facilities on an extended schedule									
Hyd-19.0	Maximize transport downstream juvenile salmonid migrants									
Hyd-20.0	Use "Share the risk" transportation policy for juvenile salmonids									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Embeddedness	Fine sediment	Fish community richness	Fish pathogens	Fish species introductions	Flow - change in interannual variability in high flows	Flow - changes in interannual variability in low flows	Flow - Intra daily (diel) variation	Flow - intra-annual flow pattern
Hyd-1.0	Channel maintenance flows below dam									
Hyd-2.0	Convert storage reservoir to run-of-river reservoir									
Hyd-3.0	Breach a dam									
Hyd-4.0	Provide alternative fish passage structures and operations to minimize life history selection									
Hyd-5.0	Discourage proliferation of shad via adult passage facilities									
Hyd-6.0	Operate juvenile fish passage facilities year round									
Hyd-7.0	Dam drawdown									
Hyd-8.0	Manage spill to minimize dissolved gas									
Hyd-9.0	Minimize daily flow fluctuations								3	
Hyd-10.0	Normative seasonal flow and flooding									
Hyd-11.0	Provide gravel and organic debris in unimpounded mainstem areas									
Hyd-12.0	Design and implement bypass structures to reflect biological characteristics									
Hyd-13.0	Operate adult passage facilities year-round									
Hyd-14.0	Provide flow to re-establish normative estuarine and plume and salinity conditions.									
Hyd-15.0	Remove economically marginal dams on tributaries that block anadromous passage									
Hyd-16.0	Restore passage for anadromous fish above blockages									
Hyd-17.0	Operate adult passage facilities on an extended schedule									
Hyd-18.0	Operate juvenile passage facilities on an extended schedule									
Hyd-19.0	Maximize transport downstream juvenile salmonid migrants									
Hyd-20.0	Use "Share the risk" transportation policy for juvenile salmonids									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Gradient	Habitat type - backwater pools	Habitat type - beaver ponds	Habitat type - large cobble/boulder riffles	Habitat type - off-channel habitat factor	Habitat type - pool tailouts/glides	Habitat type - primary pools	Habitat type - small cobble/gravel riffles	Harassment
Hyd-1.0	Channel maintenance flows below dam									
Hyd-2.0	Convert storage reservoir to run-of-river reservoir									
Hyd-3.0	Breach a dam									
Hyd-4.0	Provide alternative fish passage structures and operations to minimize life history selection									
Hyd-5.0	Discourage proliferation of shad via adult passage facilities									
Hyd-6.0	Operate juvenile fish passage facilities year round									
Hyd-7.0	Dam drawdown									
Hyd-8.0	Manage spill to minimize dissolved gas									
Hyd-9.0	Minimize daily flow fluctuations									
Hyd-10.0	Normative seasonal flow and flooding		2			2				
Hyd-11.0	Provide gravel and organic debris in unimpounded mainstem areas								1	
Hyd-12.0	Design and implement bypass structures to reflect biological characteristics									
Hyd-13.0	Operate adult passage facilities year-round									
Hyd-14.0	Provide flow to re-establish normative estuarine and plume and salinity conditions.									
Hyd-15.0	Remove economically marginal dams on tributaries that block anadromous passage									
Hyd-16.0	Restore passage for anadromous fish above blockages									
Hyd-17.0	Operate adult passage facilities on an extended schedule									
Hyd-18.0	Operate juvenile passage facilities on an extended schedule									
Hyd-19.0	Maximize transport downstream juvenile salmonid migrants									
Hyd-20.0	Use "Share the risk" transportation policy for juvenile salmonids									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Hatchery fish outplants	Hydrologic regime - natural	Hydrologic regime - regulated	Icing	Metals/Pollutants - in sediments/soils	Metals - in water column	Miscellaneous toxic pollutants - water column	Nutrient enrichment	Obstructions to fish migration
Hyd-1.0	Channel maintenance flows below dam									
Hyd-2.0	Convert storage reservoir to run-of-river reservoir									
Hyd-3.0	Breach a dam									
Hyd-4.0	Provide alternative fish passage structures and operations to minimize life history selection									
Hyd-5.0	Discourage proliferation of shad via adult passage facilities									
Hyd-6.0	Operate juvenile fish passage facilities year round									
Hyd-7.0	Dam drawdown									
Hyd-8.0	Manage spill to minimize dissolved gas									
Hyd-9.0	Minimize daily flow fluctuations									
Hyd-10.0	Normative seasonal flow and flooding									
Hyd-11.0	Provide gravel and organic debris in unimpounded mainstem areas									
Hyd-12.0	Design and implement bypass structures to reflect biological characteristics									
Hyd-13.0	Operate adult passage facilities year-round									
Hyd-14.0	Provide flow to re-establish normative estuarine and plume and salinity conditions.									
Hyd-15.0	Remove economically marginal dams on tributaries that block anadromous passage									
Hyd-16.0	Restore passage for anadromous fish above blockages									
Hyd-17.0	Operate adult passage facilities on an extended schedule									
Hyd-18.0	Operate juvenile passage facilities on an extended schedule									
Hyd-19.0	Maximize transport downstream juvenile salmonid migrants									
Hyd-20.0	Use "Share the risk" transportation policy for juvenile salmonids									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Predation risk	Riparian function	Salmon Carcasses	Temperature - daily maximum (by month)	Temperature - daily minimum (by month)	Temperature - spatial variation	Turbidity	Water withdrawals	Wood
Hyd-1.0	Channel maintenance flows below dam									
Hyd-2.0	Convert storage reservoir to run-of-river reservoir									
Hyd-3.0	Breach a dam									
Hyd-4.0	Provide alternative fish passage structures and operations to minimize life history selection									
Hyd-5.0	Discourage proliferation of shad via adult passage facilities									
Hyd-6.0	Operate juvenile fish passage facilities year round									
Hyd-7.0	Dam drawdown									
Hyd-8.0	Manage spill to minimize dissolved gas									
Hyd-9.0	Minimize daily flow fluctuations									
Hyd-10.0	Normative seasonal flow and flooding									
Hyd-11.0	Provide gravel and organic debris in unimpounded mainstem areas									
Hyd-12.0	Design and implement bypass structures to reflect biological characteristics									
Hyd-13.0	Operate adult passage facilities year-round									
Hyd-14.0	Provide flow to re-establish normative estuarine and plume and salinity conditions.									
Hyd-15.0	Remove economically marginal dams on tributaries that block anadromous passage									
Hyd-16.0	Restore passage for anadromous fish above blockages									
Hyd-17.0	Operate adult passage facilities on an extended schedule									
Hyd-18.0	Operate juvenile passage facilities on an extended schedule									
Hyd-19.0	Maximize transport downstream juvenile salmonid migrants									
Hyd-20.0	Use "Share the risk" transportation policy for juvenile salmonids									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Alkalinity	Bed scour	Benthos diversity and production	Channel length	Channel width - month maximum width (ft)	Channel width - month minimum width (ft)	Confinement - Hydro-modifications	Confinement - natural	Dissolved oxygen
Hyd-21.0	Use transportation as an emergency measure									
Hyd-22.0	Eliminate transportation									
Hyd-23.0	Use barges only for transportation									
Hyd-24.0	Install extended length screens at collector projects									
Hyd-25.0	Eliminate use of extended length screens at all projects									
Hyd-26.0	Provide flow to provide normative downstream temperatures									
Hyd-27.0	Locate bypass outfalls to reduce predation									
Hyd-28.0	Remove bank armoring		1					2		
Hyd-29.0	Connect backwaters and sloughs		1					1		
Hyd-30.0	Manage flow to promote mainstem spawning below dams.									
Hyd-31.0	BiOp Flows									
Hyd-32.0	IRCs									
Hyd-33.0	Shift spring flow to summer									
Hyd-34.0	Install surface bypass									
Hyd-35.0	Install "Fish friendly" turbines									
Hyd-36.0	Pre-WB flow									
Hyd-37.0	BRCs									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Embeddedness	Fine sediment	Fish community richness	Fish pathogens	Fish species introductions	Flow - change in interannual variability in high flows	Flow - changes in interannual variability in low flows	Flow - Intra daily (diel) variation	Flow - intra-annual flow pattern
Hyd-21.0	Use transportation as an emergency measure									
Hyd-22.0	Eliminate transportation									
Hyd-23.0	Use barges only for transportation									
Hyd-24.0	Install extended length screens at collector projects									
Hyd-25.0	Eliminate use of extended length screens at all projects									
Hyd-26.0	Provide flow to provide normative downstream temperatures									
Hyd-27.0	Locate bypass outfalls to reduce predation									
Hyd-28.0	Remove bank armoring									
Hyd-29.0	Connect backwaters and sloughs									
Hyd-30.0	Manage flow to promote mainstem spawning below dams.									
Hyd-31.0	BiOp Flows									
Hyd-32.0	IRCs									
Hyd-33.0	Shift spring flow to summer									
Hyd-34.0	Install surface bypass									
Hyd-35.0	Install "Fish friendly" turbines									
Hyd-36.0	Pre-WB flow									
Hyd-37.0	BRCs									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Gradient	Habitat type - backwater pools	Habitat type - beaver ponds	Habitat type - large cobble/boulder riffles	Habitat type - off-channel habitat factor	Habitat type - pool tailouts/glides	Habitat type - primary pools	Habitat type - small cobble/gravel riffles	Harassment
Hyd-21.0	Use transportation as an emergency measure									
Hyd-22.0	Eliminate transportation									
Hyd-23.0	Use barges only for transportation									
Hyd-24.0	Install extended length screens at collector projects									
Hyd-25.0	Eliminate use of extended length screens at all projects									
Hyd-26.0	Provide flow to provide normative downstream temperatures									
Hyd-27.0	Locate bypass outfalls to reduce predation									
Hyd-28.0	Remove bank armoring		2			2				
Hyd-29.0	Connect backwaters and sloughs		2			2				
Hyd-30.0	Manage flow to promote mainstem spawning below dams.									
Hyd-31.0	BiOp Flows									
Hyd-32.0	IRCs									
Hyd-33.0	Shift spring flow to summer									
Hyd-34.0	Install surface bypass									
Hyd-35.0	Install "Fish friendly" turbines									
Hyd-36.0	Pre-WB flow									
Hyd-37.0	BRCs									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Hatchery fish outplants	Hydrologic regime - natural	Hydrologic regime - regulated	Icing	Metals/Pollutants - in sediments/soils	Metals - in water column	Miscellaneous toxic pollutants - water column	Nutrient enrichment	Obstructions to fish migration
Hyd-21.0	Use transportation as an emergency measure									
Hyd-22.0	Eliminate transportation									
Hyd-23.0	Use barges only for transportation									
Hyd-24.0	Install extended length screens at collector projects									
Hyd-25.0	Eliminate use of extended length screens at all projects									
Hyd-26.0	Provide flow to provide normative downstream temperatures									
Hyd-27.0	Locate bypass outfalls to reduce predation									
Hyd-28.0	Remove bank armoring									
Hyd-29.0	Connect backwaters and sloughs									
Hyd-30.0	Manage flow to promote mainstem spawning below dams.									
Hyd-31.0	BiOp Flows									
Hyd-32.0	IRCs									
Hyd-33.0	Shift spring flow to summer									
Hyd-34.0	Install surface bypass									
Hyd-35.0	Install "Fish friendly" turbines									
Hyd-36.0	Pre-WB flow									
Hyd-37.0	BRCs									

Strategy effectiveness assumptions applied in analyzing alternative basin plans.

Effectiveness codes are: blank = nil (0%); 1 = low (10%); 2 = moderate (25%); 3 = high (55%); 4 = full (100%)

Strategy		Level 2 Ecological Attribute:								
Code	Strategy Name	Predation risk	Riparian function	Salmon Carcasses	Temperature - daily maximum (by month)	Temperature - daily minimum (by month)	Temperature - spatial variation	Turbidity	Water withdrawals	Wood
Hyd-21.0	Use transportation as an emergency measure									
Hyd-22.0	Eliminate transportation									
Hyd-23.0	Use barges only for transportation									
Hyd-24.0	Install extended length screens at collector projects									
Hyd-25.0	Eliminate use of extended length screens at all projects									
Hyd-26.0	Provide flow to provide normative downstream temperatures									
Hyd-27.0	Locate bypass outfalls to reduce predation									
Hyd-28.0	Remove bank armoring									
Hyd-29.0	Connect backwaters and sloughs									
Hyd-30.0	Manage flow to promote mainstem spawning below dams.									
Hyd-31.0	BiOp Flows									
Hyd-32.0	IRCs									
Hyd-33.0	Shift spring flow to summer									
Hyd-34.0	Install surface bypass									
Hyd-35.0	Install "Fish friendly" turbines									
Hyd-36.0	Pre-WB flow									
Hyd-37.0	BRCs									