

editors. Status and habitat requirements of the white sturgeon populations in the Columbia River downstream from McNary Dam, volume 2. Final Report (contract DE-A179-86BP63584) to Bonneville Power Administration, Portland, Oregon.

Williot, P. R., T. Brun, T. Rouault, and O. Rooryck. 1991. Management of female spawners of the Siberian sturgeon, *Acipenser baeri* Brandt: first results. Pages 365-380 in P. Williot, editor. *Acipenser*. Bordeaux, CEMAGREF.

8.0 GLOSSARY

Acipenser transmontanus.— Scientific name of the white sturgeon.

Anadromous.— Fish life history type involving freshwater spawning and migration to the ocean at some part of the life cycle.

Anthropogenic.— Of human cause or origin.

APG.— Action Planning Group consisting of policy representatives of government and stakeholders convened to aid in implementation of recovery plan.

Beneficial use.— Typically used to refer to subsistence harvest, recreational fishery harvest, or recreational catch and release fishing.

Benthic.— Bottom oriented

Bioassay.— Test for toxic effects on an organism typically conducted by exposure to varying concentrations in a laboratory.

Bycatch.— Incidental or unintended catch of nontarget species.

CDC.— British Columbia Conservation Data Centre.

CITES.— Convention on International Trade in Endangered Species of Wild Fauna and Flora.

Condition factor.— Index of skinniness or plumpness based on weight for a given length.

Conservation hatchery.— An artificial fish production facility operated for the purpose of preservation of weak, threatened, or endangered species as opposed to the production of fish for harvest or commercial purposes.

COSEWIC.— Committee on the status of endangered wildlife in Canada.

CRIEMP.— Columbia River Integrated Environmental Monitoring Program.

Critical population benchmark.— Effective population sizes corresponding to potentially irreversible genetic consequences that may threaten long term health and sustainability of a population.

Entrainment.— Involuntary capture and downstream passage of water or fish at a dam.

ESA.— U.S. Endangered Species Act

Extirpation.— Local extinction of a population or population unit.

Failsafe population.— In this context, a sturgeon population established separate from the population units being recovered to provide a hedge for unforeseen circumstances. Failsafe

populations are not expected to reproduce naturally and may be established in areas that historically produced sturgeon or in other areas where sturgeon are not present.

Functional Extinction.— Small population size below which severe genetic and demographic bottlenecks make recovery unlikely.

GBT.— Gas bubble trauma. Fatal or sublethal fish syndrome resulting from exposure to high levels of dissolved gas in the water.

Genetic risk.— Threat to population composition and productivity as a result of loss of inherited diversity and potential inbreeding which may increase expression of deleterious recessive traits.

Geomorphology.— Physical configuration of the river channel in relation to surrounding topography and geology.

Haplotype.— Unique DNA sequence used to distinguish differences among individuals and populations.

Heterozygosity.— Genetic diversity.

Hydrograph.— Seasonal water flow pattern.

HLK.— Hugh L. Keenleyside Dam, the current upstream boundary of the transboundary reach.

Longevity.— Life span typically thought to approach or exceed 100 years of age for white sturgeon.

PIT tag.— Passive Integrated Transponder tag. An internal fish tag about the size of a grain of rice that can be used to individually mark fish. Tags can be read by an electronic detector passed along the body.

Recovery.— For purposes of this plan, refers to a population level that ensures the persistence and viability of naturally-producing populations of white sturgeon and provides opportunities for beneficial use if feasible.

Recovery area.— Area defined for this purposes of this recovery plan to include all U.S. and Canada mainstem and tributary waters of the Columbia River system upstream of Grand Coulee Dam except for the Kootenay River basin upstream of lower Bonnington Dam and the Pend d'Oreille River basin upstream from Boundary Dam.

Recovery goal.— see recovery.

Recovery measure.— Specific task identified in the recovery plan as potentially beneficial to sturgeon recovery.

Recovery objective.— Short, medium, and long term directions by which recovery goal may be accomplished.

Recovery strategy.— Overarching approaches to sturgeon recovery described in more detail by objectives and measures.

Recovery target.— Interim benchmarks describing population attributes by which progress toward recovery will be measured.

Recovery team.— Group of technical convened to develop and oversee implementation of recovery plan.

Recruitment.— Successful natural reproduction and survival of juvenile fish to a size or age where many are likely to survive contribute to future generations.

SARA.— Canadian Federal Species at Risk Act. (Proposed but not adopted.)

Staging.— In this context, used to describe local migration and concentration near spawning sites prior to spawning.

Swim up.— Dispersal life stage of sturgeon where larvae leave the bottom and enter the water column where they are transported downstream.

TDG.— Total dissolved gas. Measure of gas pressure in water typically used in the U.S.

TGP.— Total gas pressure. Measure of gas pressure in water typically used in Canada.

TMDL.— Total maximum daily load. A written quantitative assessment of water-quality problems and contributing pollution sources typically associated with U.S. Environmental Protection Agency.

Transboundary.— Reach of the Columbia River extending from Grand Coulee Dam in the U.S. to H.L. Keenleyside Dam in Canada that includes the most significant remaining white sturgeon population in the upper Columbia River basin.

Transition Zone.— Typically used to refer to semi-riverine upper portion of Lake Roosevelt.

WUP.— Water Use Plan. Process initiated by British Columbia to evaluate and refine operations of water use projects throughout the province.