

Summary table detailing feasibility of alternative fishing gears evaluated for potential implementation in lower Columbia River mainstem commercial fisheries, 2009-16.

Alternative Commercial Gear	Catch Rate of Target Species	Mark Rate of Target Species	Handle of Non-Target Species	Condition of Non-Target Catch	Potential Effect on ESA Impacts	Gear/Boat Investment Costs	Regulatory Requirements	Social Issues/Concerns	Potential for Fishery Implementation	Comments
Purse/Beach Seine - Late Spring (Shad)	High	N/A	Moderate	Good	Moderate	High	Low	Low	Moderate	Shad catch was good, but markets are unpredictable; possibly issue EGPs as needed
Purse Seine - Summer	Moderate	Moderate	High	Good	High	High	Low	Low	Low	Handle of ESA-listed Sockeye is probably prohibitive
Beach Seine - Summer	Low	Moderate	High	Good	High	Moderate	Low	Low	Low	Handle of ESA-listed Sockeye is probably prohibitive
Arrow Net - Summer/Fall	Low	Moderate	High	Fair	High	Moderate	Low	Low	Low	Gear only fishes effectively for a short time during the day at slack tides
Purse Seine - Fall	High	Low	Moderate	Good	Moderate	High	Low	Low	High	Low mark rates may limit Chinook harvest; handle of ESA-listed steelhead could be limiting; trial fisheries implemented 2014-15
Beach Seine - Fall	High	Moderate	High	Good	High	Moderate	Low	Low	High	Handle of ESA-listed steelhead could be limiting; trial fisheries implemented 2014-15
Coho Tangle Net - Fall	Low	High	Low	Fair	Moderate	Low	Low	Low	High	Best potential is in years with a strong Coho run; trial fisheries implemented 2013-15
Floating Fish Trap - Fall	Low	Moderate	Low	Fair	Low	High	Moderate	Moderate	Low	Trap design and deployment are challenging due to river currents.
Commercial Trolling - Fall	Low	High	Low	Good	Low	High	Low	High	Low	Extremely low catch rates; gear ill-suited for use in a riverine environment
Hook and Line - Fall	Low	Moderate	Low	Good	Low	Moderate	Low	Moderate	Low	Catch rates, mark rates, and stock composition unfavorable for economic viability
Pound Net - Fall	Low	Moderate	High	Good	Moderate	High	High	High	Low	Very low catch from limited testing in 2013; re-designed trap performed better in 2016, but steelhead handle was very high. High costs and regulatory hurdles may severely limit implementation.
Tributary Weir - Fall	Moderate	High	Unknown	Unknown	Unknown	High	High	High	Low	Many logistical questions/issues need to be addressed
Columbia Gorge Fish Wheel	Unknown	Unknown	Unknown	Unknown	Unknown	High	High	High	Low	Testing not conducted due to difficulty acquiring necessary permits

Feasibility ratings: Green = Good, Yellow = Fair, Red = Poor