

2019 FHR PSN
APPENDIX G:
2019 FHR PERFORMANCE MEASURES

FHR 2019 Performance Measures

Performance Measures

Performance measures are not required in the 2019 FHR application, but if awarded the grantee will be required to update WebGrants with worksite performance measures

Enforcement and Protection (EF)

a. Acres of land affected by plan, or habitat restored or protected	_____ acres
b. Name and description of plan developed/implemented (<i>Author, date, title, source, source address</i>)	
c. Number of landowners contacted	_____ #
d. Number of plans or project designs developed	_____ #
e. Number of products/outcomes as a result of this project	<input type="checkbox"/> protection projects proposed _____ # <input type="checkbox"/> volunteers committed to enforcement actions _____ # <input type="checkbox"/> exhibits/posters prepared _____ # <input type="checkbox"/> media materials prepared _____ # <input type="checkbox"/> interpretive signs prepared _____ # <input type="checkbox"/> locations where interpretive signs displayed _____ # <input type="checkbox"/> outreach events conducted _____ # <input type="checkbox"/> workshop/training events _____ # <input type="checkbox"/> participants at workshop/training events _____ #
f. Number and list of watersheds protected	_____ #
g. Number and Name of outreach/education documents	_____ #
h. Description of where/when media materials used	
i. Description of where interpretive signs placed	
j. Dollar amount of donations committed to enforcement actions	_____ \$

Fish Passage at Stream Crossings (FP)

a. Total miles of stream treated (include only the actual length of stream <i>treated</i> by the project, not the length of stream <i>affected</i> by the project)	_____ miles
b. Feet of aquatic habitat disturbed	_____ feet
c. Square feet of instream features installed (footprint)	_____ square feet
d. Name(s) of plan or watershed assessment that identifies this project (<i>Author, date, title, source, source address</i>)	

e. Type(s) and number of crossings treated	<input type="checkbox"/> diversion dam ____ # <input type="checkbox"/> push-up dam ____ # <input type="checkbox"/> wood or concrete dam ____ # <input type="checkbox"/> culvert ____ # <input type="checkbox"/> bridge ____ # <input type="checkbox"/> ford ____ # <input type="checkbox"/> logs ____ # <input type="checkbox"/> debris ____ # <input type="checkbox"/> boulders or rock barriers ____ # <input type="checkbox"/> landslide ____ #
f. Miles, per site , of stream made accessible upstream of each barrier removed (accessible to next barrier or to upstream end of anadromy)	_____ miles

Instream Barrier Modification for Fish Passage (HB)

a. Total miles of stream treated (include only the actual length of stream <i>treated</i> by the project, not the length of stream <i>affected</i> by the project)	_____ miles
b. Feet of aquatic habitat disturbed	_____ feet
c. Square feet of instream features installed (footprint)	_____ square feet
d. Name(s) of plan or watershed assessment that identifies this project (<i>Author, date, title, source, source address</i>)	
e. Type(s) and number of barriers treated	<input type="checkbox"/> diversion dam ____ # <input type="checkbox"/> push-up dam ____ # <input type="checkbox"/> wood or concrete dam ____ # <input type="checkbox"/> weir ____ # <input type="checkbox"/> culvert ____ # <input type="checkbox"/> logs ____ # <input type="checkbox"/> debris ____ # <input type="checkbox"/> boulders or rock barriers ____ # <input type="checkbox"/> landslide ____ #
f. Miles, per site , of stream made accessible by removing each blockage (accessible to next barrier or to upstream end of anadromy)	_____ miles
g. Number of fishway chutes/pools installed	_____ #
h. Acres of estuarine/nearshore treated	_____ acres
i. Number of tide gates altered/removed	_____ #
j. Acres opened to fish passage due to tide gates altered/removed	_____ acres

k. Number of estuarine/nearshore culverts modified/removed	_____#
l. Acres of fill material removed due to culverts modified/removed	_____acres
m. Miles of dikes removed	_____miles
n. Acres of habitat created from dike removal	_____acres

Instream Habitat Restoration (HI)

a. Total miles of instream habitat treated (count stream reach only once, even if it has multiple treatments)	_____miles
b. Feet of aquatic habitat disturbed	_____feet
c. Square feet of instream features installed (footprint)	_____square feet
d. Name(s) of plan or watershed assessment that identifies this project (<i>Author, date, title, source, source address</i>)	
e. Type and miles of channel reconfiguration and connectivity	<input type="checkbox"/> creation/connection to off-channel habitat _____miles <input type="checkbox"/> creation of instream pools _____miles <input type="checkbox"/> channel bed restored _____miles <input type="checkbox"/> meanders added _____miles
f. Miles off-channel stream created	_____miles
g. Acres of off-channel or floodplain connected	_____acres
h. Number of instream pools created for channel reconfiguration	_____#
i. Type(s) of materials used for instream channel structure placement	<input type="checkbox"/> individual logs (unanchored) <input type="checkbox"/> individual logs (anchored) <input type="checkbox"/> logs fastened together (logjam) <input type="checkbox"/> rocks/boulders (unanchored) <input type="checkbox"/> rocks/boulders (fastened or anchored) <input type="checkbox"/> stumps with roots attached (rootwads) <input type="checkbox"/> weirs <input type="checkbox"/> deflectors/barbs <input type="checkbox"/> other engineered structures
j. Number of instream features installed/modified	_____#
k. Miles of stream treated with instream channel structure placement	_____miles
l. Number of instream pools created by structure placement	_____#
m. Acres of streambed created	_____acres
n. Miles of stream treated with spawning gravel	_____miles
o. Cubic yards of spawning gravel placed	_____cubic yards
p. For removal of aquatic non-native invasive plants , for each site provide:	_____Miles of stream treated, _____Acres of plants removed, and Scientific names of plant species removed

q. For predator/competitor removal , for each site provide:	_____ Miles of stream treated, _____ Number of predators/competitors removed, and Scientific names of predator/competitor species removed
r. Description of methods used to remove/control predators/competitors	

Riparian Restoration (HR)

a. Total miles of riparian treated (count stream reach only once, even if it has multiple treatments)	_____ miles
b. Feet of aquatic habitat disturbed	_____ feet
c. Square feet of instream features installed (footprint)	_____ square feet
d. Name(s) of plan or watershed assessment that identifies this project (<i>Author, date, title, source, source address</i>)	
e. Type(s) and miles of treatments (measure both sides of bank, if appropriate):	<input type="checkbox"/> streambank stabilization _____ miles <input type="checkbox"/> riparian streambank _____ miles <input type="checkbox"/> fence installed/repaired _____ miles
f. Total acres of riparian area treated	_____ acres
g. Type(s) and acres of treatments	<input type="checkbox"/> riparian area planted _____ acres <input type="checkbox"/> invasive plant removal _____ acres <input type="checkbox"/> riparian area protected by fencing _____ acres
h. Number of plants planted	_____ #
i. Scientific name(s) of plant species planted	
j. Scientific name(s) of non-native invasive plant species removed	
k. Acres of trail or campground improved	_____ acres
l. Type(s) of streambank stabilization material	<input type="checkbox"/> logs <input type="checkbox"/> rocks/boulders <input type="checkbox"/> rock barbs <input type="checkbox"/> log barbs <input type="checkbox"/> revetments <input type="checkbox"/> vegetation
m. Acres of wetland treated	_____ acres

Bank Stabilization (HS)

a. Total miles of stream treated (include only the actual length of stream <i>treated</i> by the project, not the length of stream <i>affected</i> by the project)	_____ miles
b. Total Feet of aquatic habitat disturbed	_____ feet
c. Square feet of instream features installed (footprint)	_____ square feet
d. Miles of streambank stabilized (count both sides of the stream if applicable)	_____ miles

e. Type of materials used for streambank stabilization	<input type="checkbox"/> logs <input type="checkbox"/> rocks/boulders <input type="checkbox"/> rock barbs <input type="checkbox"/> log barbs <input type="checkbox"/> revetments <input type="checkbox"/> vegetation
f. Acres of riparian area treated	_____ acres
g. For riparian planting , indicate for each site	_____ Acres of riparian plants planted _____ Number planted, and Scientific name of plant species
h. Miles of fence installed and acres protected by fencing	_____ miles _____ acres
i. Type of fencing material	
j. For removal of non-native invasive plants, indicate for each site	_____ Acres of riparian are treated, and Scientific name of plant species

Watershed Restoration – Upslope (HU)

a. Total miles of road treated	_____ miles
b. Total acres of upslope area treated	_____ acres
c. Name(s) of plan or watershed assessment that identifies this project <i>(Author, date, title, source, source address)</i>	
d. Type and miles per site of road treatments:	<input type="checkbox"/> road drainage system improvements _____ miles <input type="checkbox"/> decommissioning/abandonment _____ miles
e. Type(s) and number per site of upland erosion and sediment control	<input type="checkbox"/> erosion control structures _____ # <input type="checkbox"/> planting _____ # <input type="checkbox"/> slope stabilization _____ #
f. Scientific name(s) of plant species planted per site for erosion control	
g. Cubic yards per site of sediment prevented from entering stream	_____ cubic yards
h. Number per site of stream crossings treated (not for fish passage)	_____ #
i. Number of springs and landslides treated per site	<input type="checkbox"/> springs _____ # <input type="checkbox"/> landslides _____ #
j. Scientific name(s) of upland invasive plant species removed and acres treated per site.	_____ acres
k. Miles of stream treated per site (count stream reach only once, even if it has multiple treatments)	_____ miles

Monitoring Watershed Restoration (MO)

a. Total miles of stream monitored	_____ miles
b. Total acres of watershed monitored	_____ acres

c. Name of habitat restoration project complemented by this research/monitoring project	
d. Name of plan or watershed assessment that identifies this research/monitoring project (<i>Author, date, title, source, source address</i>)	
e. Number and name(s) of cooperating organizations	_____ #
f. Number and name(s) of reports prepared on key management or restoration data	_____ #
g. Name of comprehensive monitoring strategy/program (<i>Author, date, title, source, source address</i>)	
h. Type of monitoring conducted	<input type="checkbox"/> post-project implementation or design compliance monitoring <input type="checkbox"/> restoration effectiveness monitoring <input type="checkbox"/> restoration validation monitoring
i. What research or management question is the field work designed to answer?	
j. Type(s) and miles of stream monitoring	<input type="checkbox"/> biological indices other than salmon _____miles <input type="checkbox"/> water quality _____miles <input type="checkbox"/> water quantity (flow) _____miles <input type="checkbox"/> post-project _____miles <input type="checkbox"/> restoration effectiveness _____miles <input type="checkbox"/> restoration validation _____miles
k. Acres and type(s) of watershed monitoring	<input type="checkbox"/> post-project _____acres <input type="checkbox"/> restoration effectiveness _____acres <input type="checkbox"/> restoration validation _____acres

Watershed Organization Support and Assistance (OR and PI)

a. Acres of land affected by the planning and assessment activities	_____acres
b. Acres of habitat protected/restored/proposed for restoration	_____acres
c. Name and description of the plan/designs developed or implemented (<i>Author, date, title, source, source address</i>)	

<p>d. Number of products/outcomes as a result of this project</p>	<p><input type="checkbox"/> watersheds protected / restored / proposed for restoration _____#</p> <p><input type="checkbox"/> volunteers solicited _____#</p> <p><input type="checkbox"/> outreach/education documents prepared _____#</p> <p><input type="checkbox"/> Exhibits/posters prepared _____#</p> <p><input type="checkbox"/> media materials prepared _____#</p> <p><input type="checkbox"/> interpretive signs prepared _____#</p> <p><input type="checkbox"/> locations where interpretive signs displayed _____#</p> <p><input type="checkbox"/> outreach events conducted _____#</p> <p><input type="checkbox"/> Workshops/training events _____#</p> <p><input type="checkbox"/> Participants at workshops _____#</p> <p><input type="checkbox"/> landowner plans or designs developed _____#</p> <p><input type="checkbox"/> landowners reached by project _____#</p>
<p>e. Type(s) of restoration project treatments proposed</p>	<p><input type="checkbox"/> fish screening</p> <p><input type="checkbox"/> fish passage</p> <p><input type="checkbox"/> instream flow</p> <p><input type="checkbox"/> instream habitat</p> <p><input type="checkbox"/> riparian habitat</p> <p><input type="checkbox"/> upland habitat</p> <p><input type="checkbox"/> water quality</p> <p><input type="checkbox"/> wetland</p> <p><input type="checkbox"/> estuarine/nearshore</p> <p><input type="checkbox"/> none</p>
<p>f. Name of outreach/education documents</p>	
<p>g. Description of media material and when/where it was used</p>	
<p>h. Description of where interpretive signs were displayed</p>	
<p>i. Dollar value of habitat treatments</p>	_____ \$
<p>j. Dollar value of donations</p>	_____ \$

Project Design (PD)

<p>a. Acres encompassed by planning/designs</p>	_____ acres
<p>b. Name and description of the NMFS recovery plan used to implement this project (<i>Author, date, title, source, source address</i>)</p>	
<p>c. Number of restoration projects proposed as a result of this project</p>	_____ #

Watershed Evaluation, Assessment and Planning (PL)

d. Acres encompassed by planning/assessment	_____ acres
a. Name and description of the plan/assessment developed (<i>Author, date, title, source, source address</i>)	
b. Type(s) of instream survey/assessment activities conducted	<input type="checkbox"/> salmonid presence/absence survey <input type="checkbox"/> instream habitat condition assessment <input type="checkbox"/> habitat use by salmonids <input type="checkbox"/> fish passage barrier inventory
c. Type(s) of habitat survey/assessment data collected	<input type="checkbox"/> riparian condition <input type="checkbox"/> road condition/inventory <input type="checkbox"/> upland habitat conditions <input type="checkbox"/> wetlands <input type="checkbox"/> estuarine/nearshore habitat conditions <input type="checkbox"/> LiDAR or other remote sensing <input type="checkbox"/> landscape mapping <input type="checkbox"/> invasive species <input type="checkbox"/> floodplain mapping <input type="checkbox"/> overall watershed condition assessment or mapping <input type="checkbox"/> stream typing
d. Total miles of stream assessed	_____ miles
e. Miles of stream assessed that contained salmonids	_____ miles
f. Miles of stream assessed that needed restoration	_____ miles
g. Acres of habitat assessed to determine habitat conditions affecting salmonids	_____ acres
h. Miles of road assessed	_____ miles
i. Number of fish passage impediments identified	_____ #
j. Acres of habitat assessed that need restoration	_____ acres

Cooperative Fish Rearing (RE)

a. Purpose of rearing	<input type="checkbox"/> supplementing ESA listed salmonid spawning
b. Name(s) of the habitat restoration project(s) complemented by this project	
c. Name(s) of plan or watershed assessment that identifies this rearing project (<i>Author, date, title, source, source address</i>)	
d. Number of fry/smolt released (by species)	_____ #
e. Type(s) and number of Salmonid species reared or marked/tagged	<input type="checkbox"/> Coho salmon _____ # <input type="checkbox"/> Fall Chinook _____ # <input type="checkbox"/> Spring Chinook _____ # <input type="checkbox"/> Winter steelhead _____ # <input type="checkbox"/> Summer steelhead _____ #

f. Purpose of marking	<input type="checkbox"/> identifying hatchery salmonids for use in selective fisheries <input type="checkbox"/> identifying supplementation salmonids that are to be released in fisheries <input type="checkbox"/> identifying salmonids to assess fishery interceptions <input type="checkbox"/> identifying salmonids for a hatchery evaluation or assessment program
------------------------------	---

Fish Screening of Diversions (SC)

a. Miles of stream treated (include only the actual length of stream <i>treated</i> by the project, not the length of stream <i>affected</i> by the project)	_____ miles
b. Feet of aquatic habitat disturbed	_____ feet
c. Square feet of instream features installed (footprint)	_____ square feet
d. Name(s) of plan or watershed assessment that identifies this project (<i>Author, date, title, source, source address</i>)	
e. Number of new fish screens installed	_____ #
f. Flow rate in cfs of diversions with new screens installed	_____ cfs
g. Number of fish screens modified or replaced	_____ #
h. Flow rate in cfs of diversions with screens modified/replaced	_____ cfs
i. Acre-feet per year of water protected by screens	_____ acre-feet/year

Private Sector Technical Training and Education (TE)

a. Number of products/outcomes as a result of this project	<input type="checkbox"/> watersheds protected /restored / proposed restoration projects _____# <input type="checkbox"/> volunteers solicited _____# <input type="checkbox"/> outreach/education documents prepared _____# <input type="checkbox"/> exhibits/posters prepared _____# <input type="checkbox"/> media materials prepared _____# <input type="checkbox"/> workshop/training events conducted _____# <input type="checkbox"/> participants at workshop/training events _____# <input type="checkbox"/> Landowners reached _____#
b. Acres of habitat protected/restored/proposed	_____ acres
c. Name of outreach/education documents	
d. Description of media material and when/where it was used	
e. Dollar value of habitat treatments	_____ \$
f. Dollar value of donations	_____ \$

Water Conservation Measures (WC)

a. Total miles of stream treated (include only the actual length of stream <i>treated</i> by the project, not the length of stream <i>affected</i> by the project)	_____ miles
b. Feet of aquatic habitat disturbed	_____ feet
c. Square feet of instream features installed (footprint)	_____ square feet

d. Name(s) of plan or watershed assessment that identifies this project (<i>Author, date, title, source, source address</i>)	
e. Miles of stream protected for adequate flow	_____ miles
f. Acre-feet of water conserved (change in flow)	_____ acre-feet
g. Acre-feet of water conserved per year	_____ acre-feet/year
h. Flow rate in cfs of water conserved (irrigation)	_____ cfs
i. Start date of return flow to the stream (irrigation)	___/___/___
j. End date of return flow to the stream (irrigation)	___/___/___
k. Acre-feet of water conserved (irrigation)	_____ acre-feet

Water Measuring Devices (WD)

a. Total miles of stream treated (include only the actual length of stream <i>treated</i> by the project, not the length of stream <i>affected</i> by the project)	_____ miles
b. Feet of aquatic habitat disturbed	_____ feet
c. Square feet of instream features installed (footprint)	_____ square feet
d. Name(s) of plan or watershed assessment that identifies this project (<i>Author, date, title, source, source address</i>)	
e. Miles of stream protected for adequate flow	_____ miles
f. Acre-feet change in water flow	_____ acre-feet
g. Number of water flow gauges installed	_____ #