



**Work Plan and Accomplishments Report  
FY20 FWS NFHAP Project Funding Cycle**

Fish Habitat Partnership: **Eastern Brook Trout Joint Venture**

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General Instructions

1. Complete Section 1 if applying for operating support funding, only.
2. Complete Sections 1, 2, and 3 if applying for both stable operational support and competitive, performance-based funds. See attachment to this template for additional guidance and definitions for selected performance criterion.
3. If you have questions about this template, please contact your Regional Coordinator.
4. Email one electronic copy of the completed report by 11:59 pm local time, **January 10, 2020** to your respective Regional Coordinator and the National Coordinator (listed below).
5. Incomplete reports will not be considered for funding. Information received after the submission deadline will not be considered.

**NFHAP Regional and National Coordinator List**

<b>FWS Region</b>	<b>Coordinator</b>	<b>Phone</b>	<b>E-mail</b>	<b>FHPs in Region</b>
1	John Netto	503-231-2270	<a href="mailto:John_Netto@fws.gov">John_Netto@fws.gov</a>	- Hawaii FHP - Pacific Marine and Estuarine Partnership - Pacific Lamprey FHP
2	Karin Eldridge	505-248-6471	<a href="mailto:Karin_Eldridge@fws.gov">Karin_Eldridge@fws.gov</a>	- Desert FHP - Reservoir FHP
3	Jessica Hogrefe	612-713-5102	<a href="mailto:Jessica_Hogrefe@fws.gov">Jessica_Hogrefe@fws.gov</a>	- Driftless Area Restoration Effort - Fishers and Farmers Partnership - Great Lakes Basin FHP - Midwest Glacial Lakes Partnership - Ohio River Basin FHP
4	Tripp Boltin	843-819-1229	<a href="mailto:Walter_Boltin@fws.gov">Walter_Boltin@fws.gov</a>	- Southeast Aquatic Resources Partnership
5	Callie McMunigal	304-536-1361, x7342	<a href="mailto:Callie_Mcmunigal@fws.gov">Callie_Mcmunigal@fws.gov</a>	- Atlantic Coastal FHP - Eastern Brook Trout Joint Venture
6	Bill Rice	303-236-4219	<a href="mailto:William_Rice@fws.gov">William_Rice@fws.gov</a>	- Great Plains FHP
7	Michael Daigneault	907-786-3523	<a href="mailto:Michael_Daigneault@fws.gov">Michael_Daigneault@fws.gov</a>	- Kenai Peninsula FHP - Mat-Su Basin Salmon Habitat Partnership - Southwest Alaska Salmon Habitat Partnership - Southeast Alaska FHP
8	Lisa Heki	775-861-6354	<a href="mailto:Lisa_G_Heki@fws.gov">Lisa_G_Heki@fws.gov</a>	- California Fish Passage Forum - Western Native Trout Initiative
HQ	Eric MacMillan	703-358-2435	<a href="mailto:Eric_MacMillan@fws.gov">Eric_MacMillan@fws.gov</a>	- National Coordinator

## **General Guidance for Completing Section 1. Justification for Stable Operating Support**

The intent of Section 1 is to ensure that FHPs receiving operating support are thriving, active organizations making concerted efforts to achieve fish habitat conservation goals and objectives established by both the FHP and National Fish Habitat Action Plan.

*Narrative responses* should provide an overview of all projects and activities supported by FWS funds and all other sources or in-kind contributions over the previous three federal fiscal years (FY 2016, 2017, and 2018 or October 1, 2015 through September 30, 2018) and anticipated projects and activities over the next three federal fiscal years (2020, 2021, and 2022 or October 1, 2019 through September 30, 2022).

*Project summaries* should not be an itemized list of individual projects. Project summaries should instead focus on the associated outputs and outcomes of the habitat conservation projects implemented by the FHP (e.g., *completed ten fish passage projects resulting in X number of miles reopened, link to strategic plan, objective addressed, outcomes, socioeconomic impacts, etc.*)

*Activity summaries* should focus on salient operational and programmatic activities (e.g. *update strategic plan, improved capacity of FHP, monitoring and assessments, outreach events, socioeconomic impacts, etc.*). Day-to-day FHP activities (e.g. the number of meetings or teleconferences an FHP representative participated in) are not pertinent to this performance report and should not be included in this summary.

Please make efforts to keep your justification in Section 1 concise. Do not exceed six pages.

***Additional, supplemental guidance for completing the Annual Work Plan and Accomplishments Report and example narratives can be found in the Appendix section of this document.***

**Section 1. Justification for Stable Operational Support** (maximum 6 pages)

Enter your responses in the space provided below.

*Eastern Brook Trout Joint Venture Projects and Activities*Projects (FY2016-FY2018)

The Eastern Brook Trout Joint Venture (EBTJV) had fourteen projects supported by FWS-NFHAP funds between FY2016 and FY2018; eleven of these projects entailed implementing on-the ground fish habitat conservation actions while three supported the EBTJV's operation and coordination activities. All of the on-the ground fish habitat conservation projects addressed at least one of the EBTJV's key conservation actions as 91% reconnected fragmented habitat and/or enhanced recreational fishing for wild Brook Trout; 73% minimized threats to Brook Trout; 55% expanded Brook Trout habitat; 45% preserved Brook Trout genetic diversity; and, 11% improved Brook Trout spawning and/or early life history habitat. From a national perspective, the eleven on-the-ground fish habitat conservation projects addressed three of four National Fish Habitat Partnership national conservation strategies, including restoring hydrologic conditions for fish, reconnecting fragmented fish habitats, and restoring water quality. Collectively the eleven on-the-ground fish habitat conservation projects enhanced more than 23 stream miles of habitat and, removed 11 fish passage barriers that renewed access to 107 miles of stream. The [socioeconomic benefit](#) resulting from these projects is estimated to be \$71 million dollars.

Activities (FY2016-FY2018)

In 2015, the EBTJV completed its second range-wide Brook Trout status assessment, conducted at the catchment scale, and used the [assessment results](#) to assist with refining the partnership's range-wide habitat goals and objectives as well as its conservation priorities (see [Eastern Brook Trout Roadmap to Conservation](#)).

The EBTJV continued its collaborative working relationship with the [Chesapeake Bay Program](#) (CBP) in an effort to address mutual landscape level priority conservation needs. The EBTJV's alliance with the CBP during this 3-year period entailed working with its Brook Trout Action Team to develop an indicator of success for achieving the CBP's [Brook Trout Management Strategy](#) and, to assist in the development and implementation of the Brook Trout Management Strategy's [annual work plans](#).

The EBTJV was successful in obtaining three Multi-State Conservation Grant Program grants during this time period, providing the partnership with ~\$23,700 in funding to support joint efforts undertaken with the Atlantic Coastal Fish Habitat Partnership (ACFHP) and the Southeast Aquatic Resources Partnership (SARP). The purposes of these collaborations are to conserve fish habitat from whitewater to bluewater. Over the three years (FY16-FY18) the emphasis of the relationship was directed towards developing a process that identifies and prioritizes fish habitat conservation focus areas located in drainages that cross the geographic boundaries of the three Fish Habitat Partnerships. This effort has led to selecting the Rivanna HUC 8 in Virginia as a priority focal area for jointly addressing fish habitat connectivity issues.

To promote the accomplishments being achieved in conserving wild Brook Trout, two hundred thirty-

eight (238) wild Brook Trout conservation-related media stories were posted on the EBTJV's [Facebook page](#), resulting in increasing the number of page followers from 2,276 to 2,893 individuals and generating 196,590 views.

#### Anticipated Projects (FY2020-FY2022)

During the FY20-FY22 time frame, the EBTJV anticipates the focus of its Brook Trout conservation projects will be geared towards achieving the partnership's revised Range-wide Habitat Goals and Objectives. Additionally, projects that also deliver key conservation actions as components of their outcomes will be given a higher priority as our partnership believes these actions represent the strategic elements needed to achieve success in conserving wild Brook Trout. The EBTJV gives prospective Brook Trout conservation projects that address its range-wide habitat goals and objectives, key conservation actions and occur within priority catchments and patches, higher ratings in our partnership's [Project Review](#) process. The EBTJV also anticipates utilizing the \$85,000 available from the partnership's FY20 stable funding allocation to support its base operational functions.

#### Anticipated Activities (FY2020-FY2022)

The EBTJV will continue working towards achieving its range-wide habitat goals and objectives. Our partnership will also initiate a process that results in allowing our wild Brook Trout-related catchment database to be updated on-line by the States and we intend to initiate a process that converts the EBTJV's catchment delineation layer from HD+ Version 2 to HD+ High Resolution when development of this new data layer is complete. Our partnership will also focus on determining a mechanism for identifying the locations of groundwater discharges that provide essential thermal refugia for Brook Trout. The EBTJV intends to complete an assessment of the strengths and weaknesses of the many Brook Trout-related decision-support tools to provide users with a better understanding of how and when to use these tools. Our partnership will continue to liaise and collaborate with the National Fish Habitat Partnership, neighboring Fish Habitat Partnerships and other conservation entities to ensure that strategic conservation actions among this community are synchronized. This includes working with the Atlantic Coastal Fish Habitat Partnership and Southeast Aquatic Resources Partnership to implement an Eastern Aquatic Connectivity Program, which is aimed at achieving more efficient and successful fish barrier removal actions at a large regional scale (24 States). Additionally, the EBTJV will continue to solicit and rank fish habitat conservation projects that address priority wild Brook Trout conservation needs; coordinate and compile information on wild Brook Trout conservation activities and improvements in wild Brook Trout habitat condition for use in measuring progress towards conserving wild Brook Trout; and, promote the accomplishments being achieved in conserving wild Brook Trout to targeted audiences.

## **General Guidance for Completing Section 2. Accomplishments Report**

The purpose of this section is to describe, in detail, the activities of the FHP over the previous three federal fiscal years and how stated goals and objectives were met using FWS NFHAP project funds and other funding and in-kind resources.

For the purposes of completing this report, “NFHAP project funds” means FWS funds allocated under the NFHAP methodology that were used for fish habitat conservation projects. Project funds includes competitive, performance-based funding, as well as any stable operational support funding an FHP chooses to use for fish habitat conservation projects. FHP stable operational support funding used for general operations (coordination, travel, etc.) should not be included in Section 2 and Section 3.

Responses for criterion #4, project completion, should include information for projects that *received FWS NFHAP project funds over the previous five fiscal years* (FY14 – FY18 or October 1, 2013 through September 30, 2018). Projects funded from FY14 – FY18 will be evaluated for project completion between the federal fiscal years FY14 – FY19. Responses for all other criteria in this section will adhere to the three federal fiscal year time frame (FY16 – FY18).

Percentages (criteria # 2, 3, 4, 5, 7, and 8) and the leveraging ratio in criterion # 6 should be calculated to the nearest hundredth.

Supplemental guidance for selected performance criteria (criteria # 1, 4, and 6) is presented in the appendix to this document.

Please list your projects in chronological order by year for each criterion. To avoid confusion and provide clarity for reviewers, please keep your project lists in the same order for all criterion.

When responding to the requirements in this Section, FHPs should complete the self-assessment checklist, with narrative evidence justifying the performance level selected for each criterion.

## Section 2. Accomplishments (Federal FY 2016 through 2018)

1. Meet the basic FHP requirements established by the National Fish Habitat Board for strategic planning and assessments

*Over the previous three fiscal years, how has the FHP met basic requirements for scientific planning and habitat assessments? (Choose one and provide explanation)*

- FHP has filled data gaps and refined habitat assessments, including climate change considerations, for incorporation into the Science and Data Committee's national assessment (Level 3): During Federal FY 2016 through 2018, the EBTJV filled data gaps using its refined range-wide assessment of Brook Trout at the catchment scale, including incorporating climate change considerations into its suite of Brook Trout conservation decision-support tools. The EBTJV continually shares its assessment findings with the NFHP Science and Data Committee.

*Narrative support: Briefly summarize any assessments and efforts to identify and fill data gaps. Describe how assessment results have been incorporated into strategic plans priorities and project selection process. Provide a link to your strategic plan and/or assessments as appropriate.*

- Coordinate and compile scientific assessment(s) information on priority fish habitats within the FHP's boundaries.
- Incorporate existing assessments of habitat conditions and threats as needed into the FHP strategic plan.
- Information gaps in scientific information and knowledge have been filled in order to strategically identify and prioritize fish habitat conservation projects in FHP boundaries.
- Identify how habitat assessments projects will be solicited and selected within FHP priorities.

The EBTJV's efforts to coordinate and compile scientific assessments on priority fish habitats within our FHP's geographic boundaries included completing our partnership's second range-wide assessment of Brook Trout, which was initiated as a result of resource managers identifying needs to have the status of Brook Trout determined at a finer scale (catchment vs. subwatershed) as well as integrating the presence of exotic trout species (rainbow trout and brown trout); and, providing support to Trout Unlimited as it developed its [Eastern Brook Trout Conservation Portfolio](#), which consists of three conservation planning products that interprets spatial data related to Brook Trout population patterns, their habitats, and threats to those habitats.

The results from the EBTJV's range-wide [catchment assessment](#) were used to refine the EBTJV's range-wide habitat goals and objectives and to modify the partnership's key Brook Trout conservation actions (see [Eastern Brook Trout Roadmap to Conservation](#)). These refinements and modifications were also used to revise our [Project Review Criteria](#), the primary mechanism the EBTJV uses to solicit and prioritize its fish habitat conservation projects. TU's Brook Trout Conservation Portfolio is also used by EBTJV partners to aid in strategically identifying and prioritizing fish habitat conservation projects within the eastern range of Brook Trout.

- Incorporate new data on threats, including climate change, into the habitat assessment and project priorities.

The EBTJV integrated the presence of exotic trout species into its [assessment database](#), by creating catchment and patch classification data layers so that this leading threat to Brook Trout populations could be appropriately addressed by our partners when developing their conservation actions. Climate change is also a top threat to Brook Trout sustainability and so the EBTJV supported the development of the [Riparian Restoration Decision Support Tool](#), which is an innovative riparian planting and restoration decision support tool that allows managers and decision-makers to rapidly identify and prioritize areas along the banks of rivers, streams, and lakes for restoration, making these ecosystems more resilient to disturbance and future changes in climate.

One of conservation planning products in TU's Eastern Brook Trout Conservation Portfolio is the "Range-wide Habitat Integrity and Future Security Assessment" that uses broad-scale GIS information to characterize the EBTJV's Brook Trout patches and adjacent unoccupied HUC12 subwatersheds based on the current pattern of habitat alteration and anticipated threats. Factors related to agricultural land use, riparian vegetation, road densities, stream crossings, acid deposition, and stream temperature are summarized to assign a percentile score to each patch or subwatershed. This analysis provides EBTJV partners with additional context during the development of conservation strategies for each Brook Trout patch. The subwatershed summaries offers a framework for interpreting their suitability for the expansion or reintroduction of Brook Trout.

The EBTJV is also addressing the threat posed by climate change by including a range-wide habitat goal that focuses on reducing Brook Trout habitat fragmentation by eliminating fish passage barriers so Brook Trout have ready access to thermal refugia. This focus is highlighted by the fact that 91% of the EBTJV's fish habitat conservation projects receiving FWS-NFHAP funds from FY16 through FY18 reconnected fragmented habitat, providing Brook Trout renewed access to 107 miles of stream.

- Complete FHP specific plan to fill data gaps and to refine and complete fish habitat assessments that are necessary to in FHP boundaries.
- Prioritize information gaps and approach to fill science and data gaps necessary to refine, complete, and update habitat condition assessments that are necessary to strategically identify and prioritize fish habitat conservation projects in FHP boundaries.

To fill science and data gaps, the EBTJV has identified the need to: create a web application that would allow credentialed users to modify and update EBTJV catchment classifications for presence of salmonid species on an annual basis; develop a new assessment data layer that would account for trout population abundance, in addition to presence/absence data, for those catchments where this data is available; gain a better understanding of Brook Trout genetics across its eastern range in an effort to determine the level of impact hatchery-origin Brook Trout are having on wild Brook Trout genetics, how best to select donor populations for restoring wild Brook Trout in waters where they have been extirpated, whether spatial isolation

and restricted gene flow influence phenotypic variation within and among wild Brook Trout populations, whether genetic rescue is a tool that can provide population resilience, and in what way genetics can be used to monitor Brook Trout population trends and their responses to conservation actions taken; and, incorporate groundwater data in its efforts to better identify key areas that can provide thermal refugia for Brook Trout, particularly in light of future climate scenarios that predict rises in water temperatures as knowing where these thermal refugia exist are essential to establishing more effective Brook Trout conservation priorities and requisite management decisions.

- Proactively share scientific information and knowledge from assessments in a compatible format with the National Science and Data Team for integration into the national assessment and other national needs.

The EBTJV has and will continue to share its assessment data, modeling outputs, and decision-support tools with NFHP's Science and Data Committee (see [Brook Trout Conservation Decision Support Tools](#)).

2. Execute projects that benefit FHP priority species or priority areas (**Federal FY 2016 through FY 2018**)

*What percentage of **all projects initiated** in the past three fiscal years were focused on FHP defined priority species or priority areas? (Choose one)*

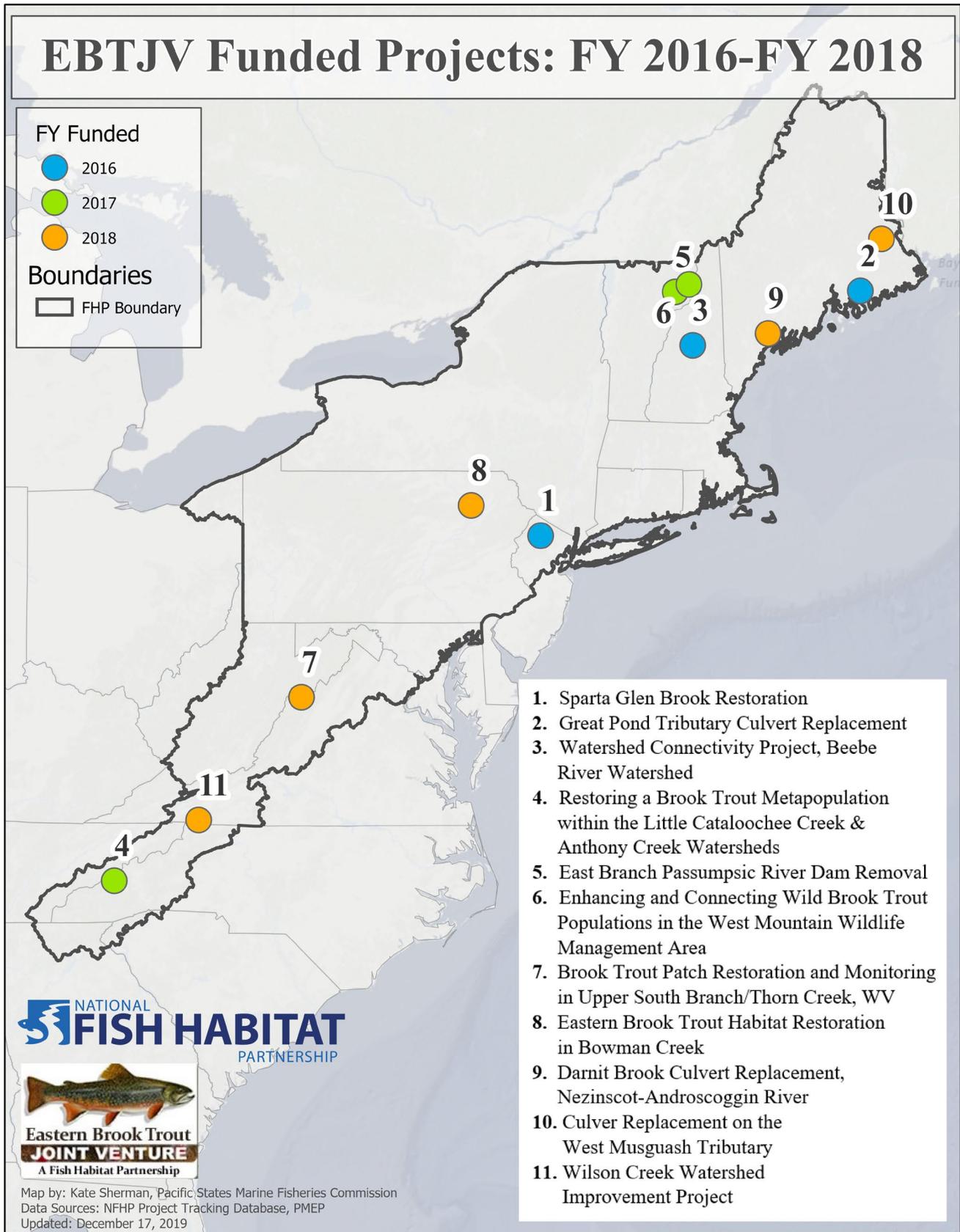
- At least 95% (Level 3): The percentage of all projects initiated in Federal FY 2016 - FY 2018 that were focused on FHP defined priority species or priority areas is 100%. A map of the Projects is appended at the end of this document.

Complete table adding rows for additional projects as needed. Attach map with project locations and priority areas identified.

Project Title	FHP Priority Species	FHP Priority Area	Brief project description <u>(max. 250 characters)</u>
Sparta Glen Brook Restoration, NJ (FY16)	Brook Trout	Subwatershed Priority Score = 0.20 (low rank category)	This project restored critical instream habitat within Sparta Glen Brook, including natural pool regimes and spawning areas, restores toe of slope protection, further stabilizes upland fringe areas, as well as the riparian corridor along a 0.68 mile stretch.
Great Pond Tributary Culvert Replacement, Little Cards Brook, Franklin, ME (FY16)	Brook Trout	Subwatershed Priority Score = 1.51 (highest rank category)	This project replaced an undersized and failing stream crossing on Little Cards Brook. It also fixes a chronic sedimentation problem that is detrimental to the health of the stream and Great Pond.
Watershed Connectivity Project, Beebe River Watershed, Campton and Sandwich, NH (FY16)	Brook Trout	Subwatershed Priority Score = 0.45 (low rank category)	This project replaced culverts for five stream crossings in the Beebe River Watershed, thereby providing wild Brook Trout over 5 miles of accessible thermal refuge and spawning locations.
Restoring a Brook Trout Metapopulation within the Little Cataloochee Creek & Anthony Creek Watersheds, Great Smoky Mountains National Park, TN & NC (FY17)	Brook Trout	Subwatershed Priority Scores = 0.21 & 0.62 (low rank category)	This project restored Brook Trout into 2.64 km of Little Cataloochee Creek and 2.8 km of Anthony Creek within its native range in Great Smoky Mountains National Park (GRSM) as identified in the GRSM Fishery Management Plan.

<p>East Branch Passumpsic River Dam Removal, VT (FY17)</p>	<p>Brook Trout</p>	<p>Subwatershed Priority Scores = 1.41 &amp; 1.42 (highest rank category)</p>	<p>This project removed a deteriorating dam, which improved natural flow regimes, free-flowing river conditions, water quality and temperature, sediment release and transport, and connectivity resulting in the restoration of Aquatic Organism Passage.</p>
<p>Enhancing and Connecting Wild Brook Trout populations in the West Mountain Wildlife Management Area, VT (FY17)</p>	<p>Brook Trout</p>	<p>Subwatershed Priority Score = 1.62 (highest rank category)</p>	<p>This Project replaced one impassable culvert with a bridge, removed one culvert, and improved 1.25 miles of Brook Trout spawning and juvenile rearing habitat.</p>
<p>Brook Trout Patch Restoration and Monitoring in Upper South Branch/Thorn Creek, WV (FY18)</p>	<p>Brook Trout</p>	<p>Wild Brook Trout Catchment Feature ID # 8423048</p>	<p>This Project restores habitat to a degraded three-mile section of Thorn Creek in support of strengthening the Thorn Creek Brook Trout Patch and expanding that patch into the South Branch of the Potomac.</p>
<p>Eastern Brook Trout Habitat Restoration in Bowman Creek, PA (FY18)</p>	<p>Brook Trout</p>	<p>Wild Brook Trout Catchment Feature ID # 4201090</p>	<p>This Project restores, improves and increases connectivity of wild Brook Trout through riparian restoration and pH improvements to the former Mountain Springs Lake bottom in the South Branch Bowman Creek headwater system.</p>
<p>Darnit Brook Culvert Replacement, Nezinscot-Androscoggin River, ME (FY18)</p>	<p>Brook Trout</p>	<p>Wild Brook Trout Catchment Feature ID # 6711875</p>	<p>This Project replaces an undersized pipe arch culvert at the Shedd Hollow Road crossing of Darnit Brook, which creates a barrier to Brook Trout passage, with an open bottom arch structure sized 1.2x times bankfull width.</p>
<p>Culvert Replacement on the West Musquash Tributary, ME (FY18)</p>	<p>Brook Trout</p>	<p>Wild Brook Trout Catchment Feature ID # 5195840</p>	<p>This Project replaces an undersized and failing stream crossing on the West Musquash Tributary.</p>

<p>Wilson Creek Watershed Improvement Project, VA (FY18)</p>	<p>Brook Trout</p>	<p>Wild Brook Trout Catchment Feature ID # 6889092</p>	<p>This Project protects the headwaters of Wilson Creek and promotes spruce restoration by fencing permitted long-horn cattle, wild ponies, and horse trail users out of the high elevation bogs and seeps, stabilizing streambanks and reducing trail erosion.</p>
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3. Execute projects that benefit FWS priority species / trust resources **(Federal FY 2016 through FY 2018)**

*What percentage of all projects initiated in the past three fiscal years addressed habitat issues for FWS priority or trust resources? (Choose one)*

- 75% (Level 3): The percentage of all projects initiated in Federal FY 2016 - FY 2018 that addressed habitat issues for FWS priority or trust resources is 100%.

Project Title	FWS Region	State	Primary Species or Resources Benefitted	FWS Priority or Trust Resources (if neither, enter N/A)
Sparta Glen Brook Restoration, NJ (FY16)	5	NJ	Brook Trout	Brook Trout
Great Pond Tributary Culvert Replacement, Little Cards Brook, Franklin, ME (FY16)	5	ME	Brook Trout	Brook Trout
Watershed Connectivity Project, Beebe River Watershed, Campton and Sandwich, NH (FY16)	5	NH	Brook Trout	Brook Trout
Restoring a Brook Trout Metapopulation within the Little Cataloochee Creek & Anthony Creek Watersheds, Great Smoky Mountains National Park, TN & NC (FY17)	4	NC TN	Brook Trout	Brook Trout
East Branch Passumpsic River Dam Removal, VT (FY17)	5	VT	Brook Trout	Brook Trout
Enhancing and Connecting Wild Brook Trout populations in the West Mountain Wildlife Management Area, VT (FY17)	5	VT	Brook Trout	Brook Trout
Brook Trout Patch Restoration and Monitoring in Upper South Branch/Thorn Creek, WV (FY18)	5	WV	Brook Trout	Brook Trout
Eastern Brook Trout Habitat Restoration in Bowman Creek, PA (FY18)	5	PA	Brook Trout	Brook Trout
Darnit Brook Culvert Replacement, Nezinscot-Androscoggin River, ME (FY18)	5	ME	Brook Trout	Brook Trout
Culvert Replacement on the West Musquash Tributary, ME (FY18)	5	ME	Brook Trout	Brook Trout
Wilson Creek Watershed Improvement Project, VA (FY18)	5	VA	Brook Trout	Brook Trout

4. Project Completion and Success

*What percentage of projects funded by FWS NFHAP dollars, in whole or in part, during the prior five years have been completed consistent with the project design? (Choose one) See the calculation below for further guidance on responding to this criterion.*

- At least 80% (Level 3): 93.33% of projects funded by FWS NFHAP dollars, in whole or in part, during the prior five years have been completed consistent with the project design

Complete table adding rows for additional projects as needed. **All projects that received federal FY 2014 through 2018 FWS NHFAP project funds should be listed in the table below. Those projects will be scored for completion between FY14 – FY19.** In the Completion Date column, enter the date that the project was completed (use the following date format, mm/yyyy). Month and year must be specified in order to determine project completion date. For projects that are on-going or incomplete, enter N/A.

In FY 20, for example, the formula for this calculation is as follows:

$$\frac{\text{Of projects funded in FY14-FY18, number of projects completed by end of FY19}}{\text{Projects funded FY14-FY18}}$$

Project Title	Accomplishments #	Completion Date	Project completed according to design? (Enter Yes or No. If no, provide an explanation. Max 250 characters)
Restoring Habitat Connectivity, Machias & Saint Croix River Tributary Streams, ME (FY14)	53371-A-206	09/2015	Yes
Mill Creek (Tygart River) Stream Restoration, WV (FY14)	53374-A-053	12/2015	Yes
Nash Stream Restoration & Columbia Road Culverts, Odell, Coos County, NH (FY15)	53340-A-084	08/2016	Yes
Upper Shavers Fork Instream and Riparian Habitat Restoration, Randolph County, WV (FY15)	53374-A-058	07/2018	Yes
Sparta Glen Brook Restoration, NJ (FY16)	52232-A-027	10/2016	Yes
Great Pond Tributary Culvert Replacement, Little Cards Brook, Franklin, ME (FY16)	53371-A-213	08/2017	Yes
Watershed Connectivity Project, Beebe River Watershed, Campton and Sandwich, NH (FY16)	53340-A-089, A-098, A-099, A-100, A-101	12/2017	Yes

Restoring a Brook Trout Metapopulation within the Little Cataloochee Creek & Anthony Creek Watersheds, Great Smoky Mountains National Park, TN & NC (FY17)	42216-2016-304	08/2018	Yes
East Branch Passumpsic River Dam Removal, VT (FY17)	53330-A-144	11/2017	Yes
Enhancing and Connecting Wild Brook Trout populations in the West Mountain Wildlife Management Area, VT (FY17)	53330-A-147, A-148	09/2018	Yes
Brook Trout Patch Restoration and Monitoring in Upper South Branch/Thorn Creek, WV (FY18)	21496461	NA	NA
Eastern Brook Trout Habitat Restoration in Bowman Creek, PA (FY18)	44926435	08/2019	Yes
Darnit Brook Culvert Replacement, Nezinscot-Androscoggin River, ME (FY18)	28881821	09/2019	Yes
Culvert Replacement on the West Musquash Tributary, ME (FY18)	874251933	07/2019	Yes
Wilson Creek Watershed Improvement Project, VA (FY18)	21496478	08/2019	Yes

5. Monitoring and Evaluation (**Federal FY 2016 through 2018**)

*What percentage of all projects initiated in the past three fiscal years included a monitoring and evaluation plan? (Choose one)*

- 90% (Level 3): The percentage of all projects initiated in Federal FY 2016 – FY 2018 that included a monitoring and evaluation plan is 100%.

Complete table adding rows for additional projects as needed.

Project Name	Brief Monitoring & Evaluation Plan Description ( <u>max. 250 characters</u> )
Sparta Glen Brook Restoration, NJ (FY16)	The project area is being monitored annually for fish and macroinvertebrates for three years, riparian areas are being inspected monthly during the first growing season following project completion and then semi-annually for three years following project completion.
Great Pond Tributary Culvert Replacement, Little Cards Brook, Franklin, ME (FY16)	A pre-project assessment of the stream’s fisheries was conducted to obtain a baseline and the fisheries will be monitored after the culvert is replaced with an open bottom structure.
Watershed Connectivity Project, Beebe River Watershed, Campton and Sandwich, NH (FY16)	Pre-surveys were conducted to obtain a baseline to compare post-survey results that will be conducted to show how the population (overall numbers and recruitment rates) and the average length and weight of individuals respond to the conservation actions.
Restoring a Brook Trout Metapopulation within the Little Cataloochee Creek & Anthony Creek Watersheds, Great Smoky Mountains National Park, TN & NC (FY17)	Prior to treatment depletion surveys were conducted throughout the treatment area as well as at a downstream control area of Little Cataloochee Creek. When the Project has been completed, monitoring sites will be visited annually for a minimum of three years.
East Branch Passumpsic River Dam Removal, VT (FY17)	Post dam removal monitoring includes site visits and data collection (including electrofishing) by a technical team.
Enhancing and Connecting Wild Brook Trout populations in the West Mountain Wildlife Management Area, VT (FY17)	Electrofishing surveys will take place and annual monitoring will be conducted through site visits and photo surveys.
Brook Trout Patch Restoration and Monitoring in Upper South Branch/Thorn Creek, WV (FY18)	Fishery, benthic and habitat condition surveys will occur before and immediately after the implementation of the Project, again at 6 months and then annually for three years. Genetics and radio telemetry surveys will be conducted to determine Brook Trout expansion into the South Branch.
Eastern Brook Trout Habitat Restoration in Bowman Creek, PA (FY18)	Water temperatures and pH will be monitored after Project completion along with periodic fish and benthic surveys.
Darnit Brook Culvert Replacement, Nezinscot-Androscoggin River, ME (FY18)	Monitoring consists of delineating a postconstruction longitudinal profile of the stream.
Culvert Replacement on the West Musquash Tributary, ME (FY18)	Brook Trout presence above the culvert will be monitored after the barrier culvert is replaced with an open bottom structure.
Wilson Creek Watershed Improvement Project, VA (FY18)	Red spruce restoration and other riparian and wetland vegetation will be monitored. Trail sustainability will also continue to be evaluated after the project. Water quality sites and electrofishing surveys will be utilized for longer term monitoring of the watershed.

6. Leveraging of FWS Project Funds (**Federal FY 2016 through 2018**)

*Over a three-year period the FHP leveraged FWS NFHAP project funding by a ratio of (Choose one). See attachment for further guidance on responding to this criterion:*

- At least 3:1 (Level 3): From Federal FY 2016 - 2018 the FHP leveraged FWS NFHAP project funding by a ratio of 3.91:1.

Complete table adding rows for additional projects as needed.

<b>Project Name</b>	<b>FWS NFHAP Project Funds</b>	<b>Non-FWS Contributions</b>	<b>Other Contributions</b>	<b>Total Project Costs</b>	<b>Funding Partners</b>
Sparta Glen Brook Restoration, NJ (FY16)	\$10,000	\$106,400	\$9,286	\$125,686	Hudson Farms Foundation Fred S. Burroughs North Jersey TU Corporate Wetlands Restoration Partnership NJ Highlands Coalition USFWS NJDFW
Great Pond Tributary Culvert Replacement, Little Cards Brook, Franklin, ME (FY16)	\$24,000	\$19,000	\$15,286	\$58,286	Hancock County Soil and Water Conservation District USFWS Great Pond Road Association Project SHARE Franklin Great Pond Association Private Landowners
Watershed Connectivity Project, Beebe River Watershed, Campton and Sandwich, NH (FY16)	\$50,000	\$300,000	\$21,429	\$371,429	NRCS NHFGD TU-Pemigewasset Ch The Conservation Fund TU-National USDA Forest Service
Restoring a Brook Trout Metapopulation within the Little Cataloochee Creek & Anthony Creek Watersheds, Great Smoky Mountains National Park, TN & NC (FY17)	\$37,642	\$196,470	\$0	\$234,112	US EPA NPS-GSM NP TU-Little River Ch. Friends of Smokies GSM Association NCWRC TU-NC Chapters TU-TN State Council TU-NC State Council
East Branch Passumpsic River Dam Removal, VT (FY17)	\$25,000	\$252,450	\$60,000	\$337,450	VTDFW VTDEC NH Charitable Found.

Enhancing and Connecting Wild Brook Trout populations in the West Mountain Wildlife Management Area, VT (FY17)	\$50,000	\$93,000	\$15,600	\$158,600	NFWF VTDFW Upper CT River MEF TU-VT Chapters
Brook Trout Patch Restoration and Monitoring in Upper South Branch/Thorn Creek, WV (FY18)	\$43,000	\$217,250	\$10,000	\$270,250	TU WVDNR USFWS-Partners Program Private Landowners
Eastern Brook Trout Habitat Restoration in Bowman Creek, PA (FY18)	\$9,059	\$10,120	\$0	\$19,179	Luzerne Conservation District TU-Stanley Cooper Chapter Keystone Creek Walkers
Darnit Brook Culvert Replacement, Nezinscot-Androscoggin River, ME (FY18)	\$50,000	\$155,189	\$5,000	\$210,189	Androscoggin River Watershed Council MEDEP Town of Buckfield, ME USFWS-MEFRO MEDIFW Androscoggin Valley Council of Governments
Culvert Replacement on the West Musquash Tributary, ME (FY18)	\$19,500	\$19,500	\$5,000	\$44,000	Downeast Lakes Land Trust USFWS-MEFRO Project SHARE MEDIFW Grand Lake Stream ATV Club
Wilson Creek Watershed Improvement Project, VA (FY18)	\$50,000	\$70,000	\$0	\$120,000	USDA FS-George Washington and Jefferson NF VADGIF Grayson Highlands State Park Emory and Henry College TU-National Appalachian Trail Conservancy Mount Rogers Appalachian Trail Club TNC Southern Highlands Reserve Blue Ridge Discovery Center
<b>Total</b>	\$368,201	\$1,439,379	\$141,601	\$1,949,181	

**Section 3: Work Plan (1-Year Planning Horizon)**

Complete table adding rows for additional projects as needed. This table should include all proposed projects for which you are seeking FY20 FWS NFHAP project funds.

Proposed Projects for FY20 FWS NFHAP Project Funding

FWS Region	State	FIS #	Rank	NFHAP Project Funds	Partner Funds	Total Cost	NFHAP Conservation Strategy
4 & 5	ME NH VT NY MA RI CT NJ PA MD WV VA SC NC TN GA	978766826	1	\$30,000	\$0	\$30,000	Protect intact and healthy waters  Restore hydrologic conditions for fish  Reconnect fragmented fish habitat  Restore water quality
5	VT	869748623	2	\$30,000	\$45,000	\$75,000	Reconnect fragmented fish habitats.  Restore water quality.
5	VT	678485441	3	\$50,000	\$458,500	\$508,500	Reconnect fragmented fish habitats.
5	VT	678926139	4	\$50,000	\$440,000	\$490,000	Restore hydrologic conditions for fish.  Reconnect fragmented fish habitats.  Restore water quality.
5	ME	794125232	5	\$50,000	\$109,788	\$159,788	Restore hydrologic conditions for fish.
5	NH	20022315	6	\$50,000	\$395,200	\$445,200	Reconnect fragmented fish habitats.  Restore water quality.

5	MA	775718123	7	\$50,000	\$282,640	\$332,640	Restore hydrologic conditions for fish.  Reconnect fragmented fish habitats.  Restore water quality.
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7. Strategic Implementation

*Percentage of projects that include measurable goals and objectives to address:*

- *FHP priority species or priority areas; and/or*
- *Habitat issues for FWS priority species or trust resources*

Choose one, complete the table below, and provide narrative responses describing the measurable goals & objectives (max. 700 characters). Example narrative is provided in Appendix.

- 95% (Level 3): One hundred percent (100%) of the projects include measurable goals to address habitat issues related to EBTJV and FWS priority species (Brook Trout).

Complete table adding rows for additional projects as needed.

<b>Project Title</b>	<b>Identify FWS Priority Species / Trust Resources</b>	<b>Identify FHP Priority Species / Area</b>
Creation of a Web Application that Allow Credentialed Users to Modify and Update EBTJV Catchment Classifications for Presence of Salmonid Species (FIS #978766826)	Brook Trout	Brook Trout
Robinson IRP Large Wood Habitat Restoration, White River Tributaries, Rochester, VT (FIS #869748623)	Brook Trout	Brook Trout / Wild Trout Patch Feature ID# 6084497
Lockwood Brook Culvert Replacement (FIS #678485441)	Brook Trout	Brook Trout / Wild Trout Patch Feature ID# 4577644
Camp Wihakowi Dam Removal, Bull Run, Northfield, Vermont (FIS #678926139)	Brook Trout	Brook Trout / Wild Trout Patch Feature ID# 4577990
Restoration of Riverine Process and Habitat Suitability, Narraguagus River, Beddington, ME (FIS #794125232)	Brook Trout	Brook Trout / Wild Trout Patch Feature ID# 2677024
South Branch Gale River Dam Removal and River Restoration, South Branch Gale River, Bethlehem, NH (FIS #20022315)	Brook Trout	Brook Trout / Wild Trout Patch Feature ID# 4594307
Peterson Pond Dam Removal, Third Herring Brook, Hanover, MA (FIS #775718123)	Brook Trout	Brook Trout

## Measurable Goals & Objectives

Enter narrative responses below for each project (max. 700 characters/project)

Creation of a Web Application that Allow Credentialed Users to Modify and Update EBTJV Catchment Classifications for Presence of Salmonid Species: This project will result in the development of a web application that would enable credentialed resource managers to update the EBTJV's catchment classification data layer, thereby allowing users of the Fish Habitat Partnership's [Brook Trout Integrated Spatial Data and Tools](#) to have ready access to the most up to date spatial information on salmonid population presence, while also informing the general public on the state of these resources.

Robinson IRP Large Wood Habitat Restoration, White River Tributaries, Rochester, VT: The goal of this project is to increase large woody habitat in up to 5 miles of stream in order to improve habitat diversity, macroinvertebrate diversity and abundance, Brook Trout abundance and resilience to climate change. This project is part of an ongoing partnership with the USDA Forest Service to improve over 50 miles of Brook Trout habitat throughout the Robinson Integrated Resource Project Area (IRP) located in the Green Mountain National Forest. This project addresses two EBTJV range-wide habitat goals, "Maintain the current number of wild Brook Trout patches (i.e. no net loss)" and "Increase the average size (km<sup>2</sup>) of wild Brook Trout patches"; and, Green Mountain National Forest Action Plan goals.

Lockwood Brook Culvert Replacement: This project replaces a culvert on Lockwood Brook, which serves as a barrier to fish passage, with an open bottom arch culvert, thereby allowing Brook Trout renewed access to 2.5 stream miles that provides thermal refugia and spawning habitat, as well as improving flood resilience. The project addresses the EBTJV range-wide habitat goal "Increase connectivity within and among wild Brook Trout catchments" and also addresses priorities in the Vermont Brook Trout Conservation Strategies, the Vermont Management Plan for Brook, Brown and Rainbow Trout, and the Vermont Wildlife Action Plan.

Camp Wihakowi Dam Removal, Bull Run, Northfield, Vermont: This project removes a dam, which allows aquatic organism passage to approximately 27 miles of upstream cold-water habitat and restores the streams' natural channel, bench, and access to its floodplain. Bull Run contains abundant Brook Trout upstream and downstream of the Camp Wihakowi Dam and is classified by the State of Vermont as high quality aquatic habitat. The project addresses the EBTJV range-wide habitat goal "Increase connectivity within and among wild Brook Trout catchments."

Restoration of Riverine Process and Habitat Suitability, Narraguagus River, Beddington, ME: This project increases in-stream habitat complexity and suitability and restores river-riparian interactions by adding large wood and creating log jams in high priority Brook Trout watersheds. Project SHARE has created a habitat restoration focus area in the upper Narraguagus River (80 mi<sup>2</sup>) sub-watershed. Phase 1 of this organization's holistic approach to restoration involved reconnecting habitat by replacing undersized culverts on tributaries with Aquatic Organism Passage crossings. This project starts Phase 2 of their conservation efforts. The project addresses the EBTJV goal "Maintain the current number of wild Brook Trout patches (i.e. no net loss)."

South Branch Gale River Dam Removal and River Restoration, South Branch Gale River, Bethlehem, NH: This project removes a dam that will reconnect 9 miles of a high quality, cold-water stream in the White Mountain National Forest and permanently restores natural form and riverine function at the current dam site. Brook Trout are currently present both above and below the dam so removing this fish passage barrier strengthens genetic resiliency. This project addresses the EBTJV's range-wide habitat goal "Increase connectivity within and among wild Brook Trout catchments." The project is also consistent with USFWS Conte Fish and Wildlife Refuge's Comprehensive Conservation Plan that finds the removal of this dam will result in high ecological effects.

Peterson Pond Dam Removal, Third Herring Brook, Hanover, MA: This project removes a dam serving as a fish passage barrier, thereby allowing anadromous and native fish access to 1.3 miles of habitat located within the headwaters of the Third Herring Brook. Completion of this project will be the third, and last, dam to be removed from the stream, resulting in connecting a total of 9.7 miles (including tributaries) of aquatic habitat. This project addresses the EBTJV's range-wide habitat goal "Restore wild Brook Trout to catchments where they were extirpated." Also, removal of this dam is given a high priority ranking by the MA Division of Ecological Restoration.

## 8. Conservation Actions and Project Outcomes

*Percentage of proposed projects with specific conservation actions that will produce desired conservation outcomes and achieve project goals and objectives?*

Choose one and provide narrative responses below.

- 100% (Level 3): One hundred percent (100%) of the proposed projects have specific conservation actions that will produce the desired conservation outcomes and achieve the project goals.

Narrative responses (max. 700 characters/project)

Creation of a Web Application that Allow Credentialed Users to Modify and Update EBTJV Catchment Classifications for Presence of Salmonid Species: The process to achieve the intent of this project includes either an expansion of the existing web platform or creation of a new platform that would allow credentialed users to login and modify the EBTJV's catchment classifications by inputting updated assessment results; writing of computer code to communicate between the web browser and the backend database to update and track specified changes in catchments; development of a versioning system that would allow end users to determine which version of the data they have and retrieve it to replicate analysis results; and, development of back-end scripts to automatically update the associated Brook Trout patch layer after changes have been made to the catchment layer.

Robinson IRP Large Wood Habitat Restoration, White River Tributaries, Rochester, VT: This project will restore and enhance Brook Trout habitat by increasing the amount of large woody material in the stream channel and along the banks, which in turn improves sediment retention and sorting, and creates diverse instream habitat, such as step-pool complexes, particularly in smaller 1st and 2nd order streams; and, has been shown to increase Brook Trout size and abundance. Project partners have completed over seven miles of this type of habitat conservation work in this area to date. Project outcomes will be assessed by monitoring large wood retention and recruitment in the system for 4 years, evaluating Brook Trout biomass and abundance for 3 years, and documenting changes to instream habitat diversity for 2 years.

Lockwood Brook Culvert Replacement: Removing this fish passage barrier will re-open 2.5 miles of upstream habitat that provides thermal refugia, spawning, and foraging habitat for Brook Trout. It also reduces water temperatures, enhances the ecosystem integrity and stream equilibrium, and improves flood resilience. The project partners are well versed in addressing fish passage issues and are using methods that meet USDA Forest Service's stream simulation design. Project partners will monitor the site's natural stream channel design to ensure that fish passage is maintained over time.

Camp Wihakowi Dam Removal, Bull Run, Northfield, Vermont: Removal of this dam will reconnect 27 miles of high-quality Brook Trout habitat in the Bull Run watershed and will restore natural stream dynamics and native riparian vegetation. Project partners have prior experience in dam removal projects. The restoration of the stream's natural planform and riparian area surrounding the dam will be qualitatively measured through photo documentation at fixed photo

points for two years. The riparian plantings will be quantitatively measured for mortality and stresses such as deer browse over the course of two years and replanting will be done when warranted.

Restoration of Riverine Process and Habitat Suitability, Narraguagus River, Beddington, ME:

Adding large wood and creating log jams within the Narraguagus River watershed will decrease embeddedness by mobilizing the stream bed and increasing sediment sorting. These actions will increase the number and depth of pools, as well as the hyporheic flow, which can cool water temperatures and allow resiliency to climate change. Project partners will assess geomorphic changes due to wood additions using an iPad-based application; they will assess fish population response to wood additions via electrofishing methods; water temperature assessment will continue post restoration actions; and, pre- and post-river channel metrics will be evaluated.

South Branch Gale River Dam Removal and River Restoration, South Branch Gale River,

Bethlehem, NH: Removal of the dam reconnects populations of wild Brook Trout present in the 9-mile reach above the dam with those located within the 20-mile reach downstream. Changes in the Brook Trout population and the river's habitat conditions will be assessed for a minimum of two years following the removal of the dam.

Peterson Pond Dam Removal, Third Herring Brook, Hanover, MA:

Removal of this dam restores lotic and riparian wetland habitats in formerly impounded river reaches, reduces habitat fragmentation, reconnects anadromous and catadromous species' habitat from the headwaters to the ocean, restores natural sediment and nutrient transport mechanisms, reduces water temperatures and improve water quality. The project's success will be measured by assessing the fish populations in the 1.3 miles of stream above the location of former dam, the 550 linear feet of naturalized stream habitat through the former impoundment, and site passability as indicated by channel width, channel slope/gradient, and maximum jump height.

Supplemental Guidance for Selected Performance Criterion

**1. Benchmarks for the Habitat Assessment criterion performance levels and evaluating FHP achievement of Basic FHP Requirements (Appendix 2, Section 2, Criterion 1 in the approved methodology)**

To achieve Performance Level 1 (PL1), an FHP must:

- Coordinate and compile scientific assessment(s) information on priority fish habitats within the FHP's boundaries. Note: FHPs can use an existing assessment(s) performed by others (e.g., NFHP National Habitat Assessment, universities, Recovery Teams, or LCCs) as a starting point or undertake their own assessment(s).

To achieve Performance Level 2 (PL2), FHP must:

- Meet the requirements of PL1.
- Complete FHP specific plan to fill data gaps and to refine and complete fish habitat assessments that are necessary to strategically identify and prioritize fish habitat conservation projects in FHP boundaries.
- Prioritize information gaps and approach to fill science and data gaps necessary to refine, complete, and update habitat condition assessments that are necessary to strategically identify and prioritize fish habitat conservation projects in FHP boundaries.
- Identify how habitat assessments projects will be solicited and selected within FHP priorities.
- Incorporate existing assessments of habitat conditions and threats as needed into the FHP strategic plan.

To achieve Performance Level 3 (PL3), FHP must:

- Meet the requirements of PL2.
- Information gaps in scientific information and knowledge have been filled in order to strategically identify and prioritize fish habitat conservation projects in FHP boundaries.
- Proactively share scientific information and knowledge from assessments in a compatible format with the National Science and Data Team for integration into the national assessment and other national needs.
- Incorporate new data on threats, including climate change, into the habitat assessment and project priorities.

**2. Additional instruction for determining project completion (found in Appendix 2, Section 2, Criterion 4 of the approved methodology)**

As noted previously, this criterion only considers NFHAP funding used for fish habitat conservation projects. Do not include funding used for operations in the project list.

On-the-Ground Aquatic Habitat Restoration and Protection Projects

- A project is complete when fully constructed or implemented consistent with the project design and performance measures (i.e., number of stream miles enhanced or restored) are reported in FIS-Accomplishments.

- Basic implementation monitoring (if specified in the original project proposal) is also completed; however, longer term, 1-2 year monitoring, and evaluation (if specified in original project proposal) need not be completed to consider the project complete.

Education and Outreach Projects and Species or Habitat Assessment Projects

- A project is complete when the specified product/deliverable (i.e., a brochure, informational sign, video, assessment report, GIS database, etc.) is produced and received consistent with that which was described in the original project proposal and performance measures are reported in FIS-Accomplishments.
- If monitoring was specified (typically not for these project types), then basic implementation monitoring (if specified in the original project proposal) is also completed; however, longer term, 1-2 year monitoring, and evaluation (if specified in original project proposal) need not be completed to consider the project complete.

**3. Instruction for calculating Leveraging (found in Appendix 2, Section 2, Criterion 6 of the approved methodology)**

This criterion indicates the extent to which an FHP has leveraged FWS NFHAP project funds over the previous three fiscal years. The intent is to measure actions by FHPs to secure additional partner funds to supplement projects that receive NFHAP funding. Leveraging is measured as a ratio of the total FWS NFHAP project funds (this includes stable operational support, only to the extent that it was used to fund fish habitat conservation projects, as opposed to operations, performance-based funds, and indirect NFHAP technical project support an FHP received) to the total non-FWS cash or in-kind contributions the FHP secured to supplement the NFHAP project funds it received over the previous three fiscal years. (Note: Fiscal year refers to federal fiscal year, which begins October 1 and ends September 30, annually).

Leveraged funds and in-kind contributions for projects that receive FWS NFHAP project funds includes, but is not limited to, the following types of monetary and in-kind contributions:

- Monetary contributions for FHP coordination and staff positions that directly support projects receiving FWS NFHAP project funds
- Grants
- Private foundation funds
- Documented donations; and in-kind materials and services
- Funds where FWS funds are co-mingled with other non-Service funding sources (e.g. National Fish and Wildlife Foundation)
- Non-appropriated funds managed by the FWS (e.g. Coastal Impact Assistance Program, National Coastal Wetland Conservation Grant program)

Leveraging cannot include:

- FWS appropriated funding and their associated matching funds or in-kind services (e.g. Service funds and partner contributions associated with the National Fish Passage, Coastal, and Partners for Fish and Wildlife programs, LCCs, etc.).
- Any funds raised by the FHP for general operations.

- Any funds raised by the FHP used for projects not also funded by FWS NFHAP project funds.

#### **4. Brief project summary for each prioritized project (examples included below)**

In Section 3, FHPs must present the suite of ranked projects proposed for FWS NFHAP project funding in the current fiscal year and describe how these projects demonstrate strategic use of NFHAP project funds and will achieve desired conservation outcomes. Example narrative is provided below for criteria 7 and 8.

Criterion 7 - Measurable Goals & Objectives (Max. 700 characters): This project replaces one barrier to fish passage and opens 2.8 miles of upstream habitat to juvenile Coho and Chinook salmon. The crossing has been identified as a partial barrier to juvenile salmon by the State. An estimated 8-10 foot embedded culvert will replace the existing culvert. The FHP ranked this culvert in the top 16 culverts to be replaced for fish barrier issues. The project partner and FHP members, the City of Caribou Creek and local Soil District, have expressed the need to construct this project and has funding to support the project. This project addresses Objective 4 in the FHP strategic plan. It targets interjurisdictional fish, an FWS Trust Species, and a species priority for the FHP. It is being implemented in the Anchor River watershed - a priority watershed for the FHP.

Criterion 8 - Conservation Actions & Project Outcomes (Max. 700 characters): Barrier removal will make 2.8 miles of upstream habitat accessible for chinook and coho salmon. The project will be designed using stream simulation standards/techniques, proven techniques to accommodate fish and other aquatic species. The project partner has an established fish passage program and has considerable capacity to implement the project and achieve project goals. The state fish and game agency will evaluate juvenile use of the reopened habitat pursuant to the state's fish passage monitoring plan.