

# HIP OVERVIEW & PROCESS 2025



### **THE ENDANGERED SPECIES ACT of 1973**

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### SECTION 9: Prohibits "Take" of listed Species unless authorized by:

National Marine Fisheries Service Salmon, marine fish, and marine mammals.

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U.S. Fish and Wildlife Service Birds, mammals, plants, amphibians, freshwater fish and invertebrates



- SECTION 9 Prohibits "Take" of listed Species unless authorized by Services.
- SECTION 4(d) Exceptions to the take prohibition.
- SECTION 10 Scientific purposes.
- SECTION 7 Federal activities that fund, authorize, or permit
  - Must consult with the Services, requires drafting of a Biological Assessment and issuance of a Biological Opinion.

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# **SECTION 7 ESA Consultation**



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### **Enter the HIP**

C R R E V I L L E

- A programmatic consultation is a consultation addressing an agency's multiple actions on a program, region or other basis.
- Streamlines the procedures and time involved in consultations for Fish and Wildlife Program on ESA-listed species and/or critical habitat, thus reducing the amount of time spent on individual project-by-project consultations.
- A privilege not a right. It can be taken away.

# **HIP4 WHAT IS IT?**

- BPA's primary vehicle for compliance under the Endangered Species Act (ESA) for NMFS and USFWS Threatened and Endangered Species for BPA funded Tributary Habitat Restoration under the F&W program.
- Collaborative Process by which EC, EW and ETS provides technical design reviews in accordance with project complexity and significance.



HIP I

### HIP HISTORY (2003 – 2024)

HIP

In response to the 2000 FCRPS BiOp, very limited actions, livestock impact reduction, soil erosion, water delivery improvements, 5 year sunset

> Expanded actions, removed some others, Floodplain connectivity, new listings and critical habitat designations, 5 year sunset

Bull Trout Critical Habitat Designation, USFWS joined, expanded action area, terrestrial species, major restoration actions (small dams & channel reconstruction), Processed Based Restoration, Engineering Technical Services

HIP 4

Process improvements, additional actions, additional take (adult fish & turbidity), herbicides for emergent vegetation in estuary and Willamette, Stage Zero Restoration, no Sunset E

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	13	14	15	16	17	18	19	20	21	22
IWW	35	45	41	40	43	43	52	56	57	47
Total	86	96	86	95	92	113	99	96	112	84

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	13	14	15	16	17	18	19	20	21	22
LOW	NA	69	71	70	63	67	66	56	62	43
MED	NA	23	12	22	23	37	26	24	39	31
HIGH	NA	4	3	3	6	9	7	8	11	10

Trending towards complexity

# **ACTION AREA**

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### **ACTION AREA**

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# **SPECIES AFFECTED I**

NMFS Anadromous Species and their Critical Habitat

- I. Lower Columbia River Chinook
- 2. Upper Willamette River Chinook
- 3. Upper Columbia River Spring-run Chinook
- 4. Snake River spring/summer run Chinook
- 5. Columbia River chum salmon
- 6. Lower Columbia River coho salmon
- 7. Oregon Coast coho salmon
- 8. Snake River Sockeye salmon
- 9. Lower Columbia River steelhead
- 10. Upper Willamette River steelhead
- II. Middle Columbia River steelhead
- 12. Upper Columbia River steelhead
- 13. Snake River Basin Steelhead
- 14. Southern Green sturgeon
- 15. Eulachon



Species in **Bold** are Likely to Adversely Affect (LAA)

# **SPECIES AFFECTED II**

USFWS Freshwater, Terrestrial, Avian and Plant Species

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### FRESHWATER FISH

Bull Trout

AMPHIBIANS

Oregon Spotted Frog

MAMMALS

Species in **Bold** are Likely to Adversely Affect (LAA)



Canada lynx, Columbia White-tailed Deer, <del>Gray wolf,</del> Grizzly Bear, North American Wolverine, Northern Idaho ground squirrel, Pygmy rabbit & Woodland caribou.

BIRDS

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Northern spotted owl, Marbled Murrelet, Streaked horned lark & Yellow Billed Cuckoo.

**INVERTEBRATES** 

Bliss Rapids snail, Snake River Physa snail, Fender's blue butterfly & Taylor's checkerspot butterfly.

PLANTS

**Bradshaw's Iomatium, Golden paintbrush**, Howell's spectacular thelypody, **Kincaid's Iupine**, McFarlane's four o'clock, **Nelson's checkermallow**, Slickspot peppergrass, Spalding's catchfly, Ute ladies' tresses, Water howellia, Wenatchee Mountain checkermallow & **Willamette daisy**. Large Wood Complexity 39 Actions Levee Removal

11 Actions

Herbicide Application 36 Actions



# HIP4 EXAMPLES

Average Yearly Actions



Bridge Replacement 9 Actions



Small Dam Removal 7 Actions Floodplain Reconnection 10 Actions



### SPECIES SPECIFIC CONSERVATION MEASURES

### **GENERAL CONSERVATION MEASURES** -apply to all actions

**PROJECT SPECIFIC CONSERVATION MEASURES** -apply to certain activity categories

FY 2024 HIP HANDBOOK Guidance of Programmatic Requirements and Process





HIP Handbook is the best source for these conservation measures What cannot be covered under the HIP?

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- Projects that do not fall within a HIP activity category.
- Projects that include direct take for scientific purposes.
- Projects that cannot comply with general and specific Must then be covered under a conservation measures.
  Must then be covered under a separate individual

section 7

consultation

• Projects with non-essential Infrastructure.

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Generally infrastructure can only be replaced in-kind, not new or improved.

 Placement of rock beyond what is necessary to provide scour protection.

• New Road construction/maintenance/resurfacing resulting in net increase of roads in floodplain.

 Building up berms to offer more flood protection than was what previously required.

# **HIP REVIEW PROCESS**

- Internal QA/QC process (Medium or High Risk)
- Collaborative with EC, EW & ETS
- Promotes regional consistency
- Facilitates communication



Provides value added technical assistance

### The Process begins with RISK DETERMINATION (EC Lead)

**Can this project be covered under the HIP??** 

if Yes...

A Risk Determination is Made for each Activity Low Medium Requires HIP Review Process

And thus, HIP Review Process is initiated

# How Long Does the HIP Process Take?

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No Review LOW 0-1 month Junctures How long does it take to design 2 to 6 1-3 Review MEDIUM months Junctures a project, from start to finish? 3+ Review Interagency 1 to 2 years HIGH **Junctures** Review

\*These timelines occur concurrently with the design of the project

### **REVIEW PRODUCTS**

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### **From Sponsor:**

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# Design Plans Basis of Design Report



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### **From BPA:**

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### **Comment Tracking Sheet**

### **PROJECT REVIEW JUNCTURES**

Conceptual Project Review BDR starts Background, goals and objectives Information requirements Service reviews initiated

30%

Initial Review of Plans and BDR Preliminary drawings, specifications, technical data gathered

Documented through comment tracking sheet

15%



Final Project Review Resource management plans Service Approvals, Adaptive Management Plans, Near Final Drawings and Specifications

# **TYPES of REVIEW during HIP PROCESS**

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### **COMMENT TRACKING SHEET**

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				HIP Project	Review				
				Comment T	racking				
Project Informat	tion:				Review Information:				
Project Nar BPA Project Contract #: Sponsor: Designer: PM/COTR: Manager:	me: P t#: # P P	Name # Wame Name Name Dropdown	Menu		Date: Review Iteration (%): Review Schedule: • EC Lead to c • Sponsor to p • EC Lead to n	Date Dropdow ompile HIP r provide resp otify Sponso	n Menu review team co onses to comm or to proceed v	omments and send nents. vith design upon ag	to Sponsor. oproval of responses.
HIP Reviewers:					Agency Team Members:				
HIP Program EC Lead: Technical Le Examples in	m Lead: [ P ead: [ <b>red</b>	Daniel A. G Name Dropdown	ambetta, ECF Menu		NMFS Branch Chief: NMFS Biologist: NMFS Engineer: USFWS Field Office: USFWS Reviewer:	Dropdow TBD Dropdow Dropdow TBD	n Menu n Menu n Menu		
Activity Categor	ies:			Risk Level:	Documents Reviewed:				
1a - Dams o 1c - Headcu 2a - Improv 2b - Setbacl 2c - Protect 2d - Install H	1a - Dams or Control/Legacy Structures Removal 1c - Headcut and Grade Stabilization 2a - Improve Floodplain Connectivity 2b - Setback or Removal of Berms, Dikes, Levees 2c - Protect Streambanks Using Bioeng. Methods 2d - Install Habitat-Forming Natural Structures		Low Medium Medium Medium Medium	Conceptual Design Plans/BDR 15% Plans/BDR 30% Plans/BDR 80% Document #XX					
Overall Pro	ject Risk			Dropdown Menu					
# Reviewer (Org.)	Date	Doc um ent BDR /Pla	Page/ Section	Comment		Response by (Org.)	n Date	Comment	Status (BPA to Update)
1 BPA		115		General: Overall the concept looks great. F Design Report (BDR) along with 30	Please provide a draft basis of 0% drawings as required by the				

HIP Handbook. Before proceeding with the design, please provide

clarification on the items below.

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# Who Does What and When?

EW	ECF	ETS	Awardee
Advocates for use of HIP	Determines HIP4 compatibility	Advises and supports Risk Determination/ combability	Plans and designs projects in accordance with HIP4 protocols.
Facilitates meetings with sponsor, site visits and out-year planning	Makes Risk Determination, initiates HIP Process. Gathers and circulates materials	Performs Technical Review on medium and high risk projects	Submits concepts, plans and other documentation.
Ensure sponsor submits required documentation for HIP Process	Facilitates interagency reviews. Circulates comment tracking form, instructs sponsor to proceed to next and final design iterations.	Gives technical comments on plans and BDR.	Responds to comments on comment tracking form
Ensure work isn't implemented before the completion of HIP Process.	Gathers and documents approvals. Conducts functional review, ensures sponsor is aware of relevant CMs.	Gives technical review approval.	Finalize and permit project as described in planning documentation, ensures contractor has access to CMs.

### **Project Notification Form PNF**

### BONNEVILLE POWER ADMINISTRATION

HIP4 PROJECT NOTIFICATION FORM HIP No:

WCRO-2020	bing #: 0-00102			USFW: 01EOFW	S Tracking #: /00-19Y-F-0710		
	Project Title:	Click here to enter text					
В	PA Project #:	Click here to enter text Contract #:		ct #: Click here	to enter text		
В	PAEC Lead:	Click here to enter text	Project Spor	nsor: Click here	to enter text		
NMFS B	ranch Office:	Choose a NMFS Bran	ch Office				
USFWS	Field Office:	Choose a USFWS Field Office					
Lat/Long: (in	decimal degrees, WGS84)	Click here to enter text.					
Project Start Date:	DATE	Project End Date:	DATE	Completed Form Due Date:	DATE		
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### ONNEVILLE POWER ADMINISTRATION

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### **Project Description**

ist the project activities and describe the intended result(s); tell when the project is to occur; describe how the activities will e implemented; provide any other pertinent information.

### NMFS Species/Critical Habitat Present in Action Area: adromous Fish: Lower Columbia River Chinook Upper Willamette River Chinook Lower Columbia River coho Upper Willamette River steelhead Lower Columbia River steelhead. Snake River spring/summer-run Chinook Middle Columbia River steelhead Snake River fall-run Chinook Upper Columbia River spring-run Chinook Snake River Basin steelhead Upper Columbia River steelhead Snake River sockeye Columbia River chum Pacific eulachon Green sturgeor Ferential Fish Habitat Species Salmon (West Coast Salmon FMP) Estuarine Composite (Ground fish, pelagics) USFWS Species/Critical Habitat Present in Action Area: Freshwater Fish Species Amphibian Species: Oregon Spotted Frog Mammalian Species: Canada lynx\* North American wolverine Pygmy rabbit\* Gray wolf (relisted 02/10/22) Northern Idaho ground squirrel\* Grizzly bear\* Woodland caribout Avian Species: Marbled murrelet Northern spotted owl

 Streaked homed lark
Yellow Billed Cuckoo Taylor's checkersnot butterfly Snake River physa snail

### Plant Species: Slickspot peppergrass

2 of 4

Golden paintbrush Ute ladies' tresses Water howellin (delisted 07/16/21) McFarlane's four o'clock □ Willamette daisy \*Requires confirmation of NLAA determination from USFWS

### Nelson's checkermallor Types of Action:

nvertebrate Species:

Fender's blue butterfly
Bliss Rapids snail

□ Spalding's catchfly

C Kincaid's luning Wenatchee Mountain checkermallow

Howell's spectacular thelypody

Identify the types of action(s) proposed. 1. Fish Passage Restoration (Profile Discontinuities) a Dams. Water Control or Legacy Structure Removal b. Consolidate, or Replace Existing Irrigation Diversions c. Headcut and Grade Stabilization d. Low Flow Consolidation e. Providing Fish Passage at an Existing Facility Fish Passage Restoration (Transportation Infrastructure)

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### BONNEVILLE POWER ADMINISTRATION f. Bridge and Culvert Removal or Replacement g. Bridge and Culvert Maintenance h. Installation of Fords 2. River, Stream, Floodplain, and Wetland Restoration a. Improve Secondary Channel and Wetland Habitats b. Set-back or Removal of Existing, Berms, Dikes, and Levees c. Protect Streambanks Using Bioengineering Methods d. Install Habitat-Forming Natural Material Instream Structures (Large Wood, Small Wood & Boulders) e. Riparian Vegetation Planting f. Channel Reconstruction S. Install Habitat Forming Materials (Sediment & Gravel) 3. Invasive and Non-Native Plant Control a. Manage Vegetation using Physical Controls b. Manage Vegetation using Herbicides (Riverine) C. Manage Vegetation using Herbicides (Estuarine) d. Manage Ludwigig using Herbicides (Willamette) 🗌 e. Juniper Burning f. Prescribed Burning 4. Piling Removal. Diling Removal 5. Road and Trail Erosion Control, Maintenance, and Decommissioning a. Maintain Roads b. Decommission Roads 6. In-channel Nutrient Enhancement In-channel Nutrient Enhancement 7. Irrigation and Water Delivery/Management Actions a Convert Delivery System to Drin or Sprinkler Irrigation b. Convert Water Conveyance from Open Ditch to Pipeline or Line Leaking Ditches or Canals c. Convert from Instream Diversions to Groundwater Wells for Primary Water Sources d. Install or Replace Return Flow Cooling Systems e. Install Irrigation Water Siphon Beneath Waterway f Livestock Watering Facilities g. Install New or Upgrade/Maintain Existing Fish Screens Fisheries, Hydrologic, and Geomorphologic Surveys Fisheries, Hydrologic, and Geomorphologic Surveys 9. Special Actions (Terrestrial Species) a. Install/develop Wildlife Structures b. Fencing Construction for Livestock Control C. Plant Vegetation d. Tree Removal for LW Projects e. Willamette Valley Prairie Restoration

BONNEVILLE POWER ADMINISTRATION Pre Project Surveys Has pre-project surveys occurred for. Freshwater Mussels Yes 🗆 No 🗆 NA 🗆 Survey date: Avian Species Yes No NA Survey date: Plant Species Yes No NA Survey date: USFWS Terrestrial Species Review Does the project require confirmation of NLAA Effects determination for: USFWS CONTACT Mammalian Species Yes Do No Approval Date: DATE Invertebrate Species Yes No Approval Date: DATE Avian Species Yes Do No Approval Date: DATE Plant Species Yes D No D Approval Date: DATE HIP Review Does the project require project review and approval: REVIEWER 
 BPA Engineering Review
 Yes
 □
 Approval Date: DATE

 NMFS Engineering Review
 Yes
 □
 Approval Date: DATE

 NMFS Interagency Review
 Yes
 □
 Approval Date: DATE
 Approval Date: DATE USFWS Interagency Review Yes D No D BPA Determination of Consistency The BPA must certify that the proposed project is consistent with all requirements and applicable terms and conditions of the HIP Consultation BPA EC Lead: 2 Date of Certification: DATE HIP Program Lead: Date of Certification: DATE

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# **FORM SUBMITTAL**

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- Submit the completed PNF to HIP\_REPORTING
- Use the proper EMAIL subject line naming Convention.

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Columbia Basin Branch/Wenatchee, NOTIFICATION, Jones, Rock Creek, Gilliam, OR.

Northern Snake/Spokane, COMPLETION, Davies, Lolo Creek, Clearwater, ID.

### Attach any Approvals from the Services.

 Done correctly your project will be assigned a HIPIII No# and you will receive a PDF

# **HIP DOCUMENTATION**

### BONNEVILLE POWER ADMINISTRATION

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### HIP PROJECT COMPLETION FORM HIP No:

Project Title:	Click here to enter text.						
Date of Submittal:	DATE						
BPA Project #:	Click here to enter text.	Contract #:	Click here to enter text.				

### Project Activity Start and End Dates:

Work Element	Project Activities	Start Date	End Date
	Click here to enter text.	DATE	DATE
	Click here to enter text.	DATE	DATE
	Click here to enter text.	DATE	DATE
	Click here to enter text.	DATE	DATE
	Click here to enter text.	DATE	DATE

Fish Capture Reporting The BPA will report the following information for all projects that involve work area isolation with associated fish capture and relocation. When available, provide a taily of ESA-listed salmonids by species (salmon or steelhead) and life stage.

Fish Capture Lead (name, contact info)		Click here to enter text.			
	Inter	ior Columbia Basin	Lower Columbia (Hood River downstream)	Bull Trout	
Captured	Click	c here to enter text.	Click here to enter text.	Click here to enter text.	
Killed	Click	c here to enter text.	Click here to enter text.	Click here to enter text.	

1 of 2

Pre Project Surveys Did the pre-project survey confirm presence of:

Pacific Lamprey	Yes 🗆	No 🗆	NA 🗆
Freshwater Mussels	Yes 🗆	No 🗆	NA 🗆
Avian Species	Yes 🗆	No 🗆	NA 🗆
Plant Species	Yes 🗆	No 🗆	NA 🗆

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### BONNEVILLE POWER ADMINISTRATION

 $\frac{Turbidity \ Reporting}{The \ Project \ Sponsor \ shall \ complete \ and \ record \ the \ following \ water \ quality \ observations \ to$ ensure that any increase in suspended sediment is not exceeding the limit for HIP compliance.

Monitoring Lead (name, contact info) Click here to enter text.

		1				
Work Element	Date	+4 hrs.	+8 hrs.	+ 12 hrs.	+16 hrs	COMMENTS if turbidity was visible at interim
		(Y	es/No) for ob	served differe	ince.	checks, how was work modified to reduce turbidity? What special circumstances led to exceedance?

Instructions: Establish your visual observation points. First one approximately 100 ft up-stream in undisturbed water. The second one down stream of work site at the following distances from the project area.

- 50 feet in streams that are 30 feet wide or less.
- 100 feet in streams between 30 and 100 feet wide.
- 200 feet in streams greater than 100 feet wide.
- 300 feet for areas subject to tidal or coastal scour.

Upon the start of the project, if the downstream observed turbidity visibly exceeds background levels modify/add BMPs and continue to monitor every 4 hours. If exceedance continues for second monitoring interval (2 intervals in a row, 8 hours) STOP WORK until turbidity resumes to background. Work may resume once turbidity reaches background levels.

### Narrative Assessment

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Provide a narrative assessment of the project sponsor's success in meeting all HIP requirements. Please include:

- · Photos of habitat conditions before, during, and after action completion.
- Evidence of compliance with fish screen criteria, for any pump used in fish-bearing waters.
- A summary of the results of pollution and erosion control inspections, including any erosion control failure, turbidity in exceedance of HIP standards, contaminant release, and correction effort.
- · A description of the post-project condition of any riparian area cleared within 150 feet of Ordinary High Water.
- A description of site restoration completed and future site restoration plans. · A description of any project activities that were not implemented or differ from what was proposed.
- · A description of mussels or lamprey populations encountered and any protection, salvage or relocation measures
- implemented
- Any issues that were encountered during implementation or lessons learned.

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# **INCIDENTAL TAKE (SPECIES)**

### Increased limits on take of ESA Listed Species

	HIP4
Juvenile salmonid Take	7,500
Adult salmonid Take	4
Bull Trout Take	350
Herbicide Acres	1500 acres
SHL	1100 acres
MAMU	4 nests







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Extent of take is defined as a <u>visible</u> increase in suspended sediment at various distances downstream.

Requires that we monitor and report on turbidity from instream construction actions.

The changes in turbidity (from background) and the maximum plume length must be documented.

### INCIDENTAL TAKE (HABITAT) HIP Handbook Page 44

Extent of take is defined as an increase in suspended sediment (Turbidity) at various distances downstream.

Requires that we monitor and report on turbidity from instream construction actions.

The changes in turbidity (from background) and must be documented and if excessive, work must stop.



### Herbicide Use

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• NMFS and USFWS limits BPA's take to 1,500 riparian acres of herbicide treatment each year.

the state of the s	_	RIPARIAN	UPLAND
	2013	409	2482
	2014	449	8282
	2015	715	7399
A Las Martin	2016	836	8940
	2017	831	5561
	2018	533	2127
	2019	1020	2976
	2020	929	4612
The second second	2021	1336	4356
	2022	991	3433
	2023	908	2714



### HERBICIDES

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Active Ingredient	Broa Appli	dcast cation	Backpack Sprayer/Bottle Spot Spray Foliar/Basal		Hand Application Wicking/ Wiping/
	Min buffer (ft)	Max/ Min wind speed (mph)	Min buffer (ft)	Max/ Min wind speec (mph)	Min buffer (ft)
2,4-D (amine)	100	10/2	50	5/2	15
Aminopyralid	100	10/2	15	5/2	0
Chlorsulfuron	100	10/2	15	5/2	0
Clethodim	NA	NA	50	5/2	50
Clopyralid	100	10/2	15	5/2	0
Dicamba	100	10/2	15	5/2	0
Glyphosate (aquatic)	100	10/2	15	5/2	0
Glyphosate	100	10/2	100	5/2	100
Imazapic	100	10/2	15	5/2	0
Imazapyr	100	10/2	15	5/2	0
Metsulfuron	100	10/2	15	5/2	0
Picloram	100	8/2	100	5/2	100
Sethoxydim	100	10/2	50	5/2	50
Sulfometuron	100	10/2	15	5/2	0
Triclopyr (TEA)	NA	NA	50	5/2	15

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Fish and W	ildlife → Home				
EC Cultural Resources	Fish and Wildlife Por	wer and Policy Transn	nission Environment, Fi	sh and Wildlife This Site: Fish and Wild 🗸	3
All EC Q&A Guidance Other Links Roadshow 2016 Wetlands		во	NNEVILLE F	WILDLIFE	
All Site Content					10
	Top Links	ECF NEPA Guidance	HIP Guidance		
	CB Fish	NEPA Process Guidebook	NMFS and USFWS Contacts List - 2018		
	Cultural Resources Request Form	Habitat Improvement Activities CX - 2019-2023	HIP Email Templates		S IL
	APE Map Request Form	Inspection and Maintenance Activities CX - 2019-2023	Conservation Measure Checklist	A Station of the state of the s	
	eGIS		Engineering Technical Services	A CONTRACTOR OF A CONTRACTOR OF	
	EC links		Project Notification Form (HIP4)	and the second sec	
	ECF Process Guidance		Project Completion Form		
	ECF SOW Review Guidance		(HIP4)		
		_	Herbicide Use Form (HIP4)		
			2021(HIP4)Handbook_Draft		
	Artificial Production	Land Acquisitions	Programmatics		
	Hatchery Coverage Tracking Sheet	Land Acquisition Guidance for EC	ESA Programmatic Policy Memo		
	HGMP Review Process	Land Acquisition Public Notification Guidance Lands Deskbook Public Notification Letter Template Land Acquisition CX Template	2020(NMFS)HIP4_BO		
	Hatcheries and BA		2020(USFWS)HIP4_BO		¢?
	Development		2019(BPA)HIP4_BA_USPWS	44 11 55	
	AP Program Summaries		2019(BPA)HIP4_BA_NMES		
	AP SOW Review Guidance				
	AP Environmental Compliance Roles				
	Hatchery Subprogram Contacts				

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# RESOURCES

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### FY 2025 HIP HANDBOOK

**Guidance of Programmatic Requirements and Process** 



### We now have an external website:

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updated

https://www.bpa.gov/learn-andparticipate/public-involvementdecisions/laws-and-requirements/habitatimprovement-program

# **QUESTIONS?**

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### Data is available



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### Data is available

### Dan Gambetta & Shawn Skinner

### Mike Ward

**HIP Program Leads** 

Engineering Technical Services