

**Oregon Fish Habitat Distribution Data Standard  
Bioscience Framework Implementation Team, Workgroup  
January 14, 2015  
ODFW, Salem**

Agenda

10:30	Introductions (if needed). Order lunch?
10:35	Review December 10 <sup>th</sup> meeting minutes and action items
10:50	Discuss meeting objectives and process for consensus
11:00	Review / Discuss / Adopt Proposed Standard Amendments (see accompanying document)
12:00	Lunch
1:00	Continue to Review / Discuss /m Adopt Proposed Standard Amendments
2:20	Wrap up, Assignments, Next Steps
2:30	Close

Meeting Attendees

Name	Agency	Location
Jon Bowers	ODFW	Salem
Jay Stevens	BLM	Salem
Clara Dair	USFS	Salem
Bob Denouden	DAS-GEO	Salem
Shelly Moore	BLM	Salem
Mike Banach	PSMFC	Salem
Cedric Cooney	ODFW	Phone
Erin Gilbert	ODFW	Phone
Joe Bernert	ORBIC	Phone
Phil Smith	ODOT	Phone

Meeting Objectives

The primary meeting objectives were:

- 1) review December meeting minutes and action items
- 2) determine process for consensus
- 3) review and discuss proposed amendments; adopt / modify / reject based on workgroup consensus

December Meeting Minutes Review

The workgroup discussed follow up since the December meeting including an internal ODFW effort to improve alignment between the ODFW monitoring sample frames and the fish habitat distribution (FHD) data covered by the standard. Efforts have focused on the west side frame to date and it was suggested that we not overlook alignment between the FHD data and the CHAMP sampling frame on the east side of the state. Efforts were also made to improve alignment between the standard and the language of ODFW's Native Fish Conservation policy.

Process for Consensus

Due to the small size of the workgroup, a decision was made that an informal process for reaching consensus would likely be adequate. The process was dubbed "Bob's Rules of Order".

## Proposed Amendments - Schema Changes

Proposal #1: Replace Framework (LLID) based minimum graphic data elements with National Hydrography Dataset (NHD) graphic data elements. Since the NHD has been adopted as both a national and state hydrography data standard, despite concerns revolving around data maintenance, *consensus was reached that the OFHDDS should be amended to align with the NHD*. The minimum graphic elements related to the NHD were shared with the group.

<u>Permanent_Identifier</u>	Text	40	Barrier feature event record permanent ID (GUID). Maintained by the Hydrography Event Management (HEM) tools.
<u>ReachCode</u>	Text	14	The <u>ReachCode</u> value for the NHD Flowline record that the event record references. Maintained by the HEM tools.
<u>FMeasure</u>	Double	8.3	The measure along the NHD Flowline record where the linear event record begins. Maintained by the HEM tools.
<u>TMeasure</u>	Double	8.3	The measure along the NHD Flowline record where the linear event record ends. Maintained by the HEM tools.
<u>EventDate</u>	Date	8	The date the event record was created or last modified. Maintained by the HEM tools.
<u>ReachSMDate</u>	Date	8	The reach spatial modification date. Maintained by the HEM tools.
<u>ReachResolution</u>	Integer	4	The resolution of the NHD source data.

➔ Decision: amendment adopted as proposed.

Proposal #2: Drop Framework hydrography-based *minimum* graphic data elements.

Item Name	Type	Width	Description
fhdStID	Text	13	Stream route identifier (WC_LLID_NR in Framework Hydrography)
fhdStBMeas	Number	8.3	Stream route begin measure (kilometers to 3 decimal places)
fhdStEMeas	Number	8.3	Stream route end measure (kilometers to 3 decimal places)

➔ Decision: amendment adopted as proposed.

Proposal #3: Add *optional* attribute data elements to enhance description of field verification. The workgroup discussed whether this new “suite” of verification related attributes should describe fish and habitat observations, or potentially account for modeling and opinion-based data as well. Oregon Biodiversity Information Center (ORBIC) staff suggested that observation related data should be managed within a database specifically designed to support observation data (e.g. Observation Data Model). Despite this suggestion, the group agreed there was value in enhancing the attributes that describe field verification or record creation. There was agreement that the verification attributes should be generalized such that they are relevant to all basis types. Also, additional language within the standard may be needed to clarify the intended purpose of the Originator Name field vs. the Basis Name field.

Two related business rules need to be developed:

- 1) Maintain most recent survey date when surveys occur in the same reach over multiple years
- 2) Address how general dates (e.g. January 2010, or simply 2010) are coded. The system within the barrier data standard will be used.

The modified attributes are as follows:

Item Name	Type	Width	Description
fhdBasisDt	Text	8	Date of field verification or other habitat / species determination (YYYYMMDD)
fhdBasisNm	Text	30	Name of surveyor / observer; one who made determination
fhdBasisEnt	Text	30	Name of survey / verification entity or organization (agency, tribe, contractor, etc...)
fhdBasisPrj	Text	30	Name of agency / entity project
fhdBasisMethod	Text	254	Name of survey method or protocol (examples)

➔ Decision: amendment adopted as modified. Clarify intended purpose of Originator Name vs. Basis Name. Add business rules.

Proposal #4: Add *optional* attribute data element to flag whether record represents a native migratory fish. Note: this information will most likely be developed and maintained by the data steward (ODFW).

Item Name	Type	Width	Description
fhdNMF	Text	3	Native Migratory Fish <sup>1</sup> Designation (yes / no)

➔ Decision: amendment adopted as proposed. Provide a list of Native Migratory fish to the workgroup. Modify Appendix C species table to identify which species meet criteria.

Proposal #5: Add *optional* attribute(s) to describe seasonality of current habitat use.

➔ Decision: amendment rejected.

Proposal #6: Add *optional* attribute(s) to describe historical habitat use.

➔ Decision: amendment rejected.

Proposal #7: Add *optional* attribute(s) to track LLID / whole stream route reference.

➔ Decision: amendment rejected.

### Proposed Amendments – Business Rule Changes

Proposal #1: Modify Category 1 species habitat description to include all redband trout.

➔ Decision: amendment adopted as proposed. Also capitalize the term “Chinook”.

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<sup>1</sup> Oregon Administrative Rule (Division 412, 635-412-0005). Oregon Native Migratory Fish.

Proposal #2: Clarify minimum habitat use thresholds for creation of records within the database. In cases where observations of a species are made that may not be obvious for inclusion in the database (e.g. uncommonly sited species in an area outside of previously mapped habitat), a business rule needs to be established to determine if / when new records are created.

➔ Decision: Add new business rule with the following language as a starting point. Seek further input as well.

“New records should be created if observation(s) are relatively contiguous to existing distribution (generally within a few miles) or are recurring for a general area. New records should not be created when observations are isolated and non-recurring”.

Proposal #3: Clarify rules that outline changes to habitat use designations (e.g. change from migration to rearing).

➔ Decision: Build this into the stewardship plan as this is more of a maintenance issue than a standard implementation issue.

NOTE: ODFW’s Distribution Update Protocol and Data Management Plan will be used as building blocks for developing a Stewardship Plan. The Oregon Fish Habitat Distribution Data Stewardship Plan will address issues such as data maintenance.

Proposal #3.5: Describe how observations of juvenile *O. mykiss* should be used to support the creation of steelhead habitat records, including assignment of run attribution.

➔ Decision: ODFW will follow up with subject matter experts and develop proposed language.

Proposal #4: add a new rule for tracking most recent survey date where multiple surveys occur. This rule is also referenced in schema change proposal #3 above.

➔ Decision ODFW will develop language for this rule and provide it to the workgroup ahead of the next meeting.

Proposed business rules 5 through 8 were not discussed during the January 14<sup>th</sup> workgroup meeting, nor were attribute domain changes or new / modified definitions. Workgroup participants were encouraged to review the portions of the “OFHDDS\_Proposed Amendments20150114\_v2” document pertaining to these proposed amendments ahead of the next workgroup meeting.

#### Other Action Items

➔ ODFW will coordinate with staff from the BLM and USFS to evaluate data conversion crosswalks between the standard schema and other schemas, especially in relation to the Basis attribute. This will be completed before the next workgroup meeting.

#### Next Meeting

A Doodle poll will be distributed to schedule the next meeting between February 17<sup>th</sup> and 27<sup>th</sup>.