Domains Specific to PFC Assessments

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Overview

Domain values are an integral part of any data standard and are used to ensure consistency and quality of the data captured using a data standard. This document lists those data elements (attributes) that have a set of domain values and the descriptions of the domain values to provide guidance in using the appropriate value. Reference entities and other entities that have a fairly stable list of values are included in this document for the data standard.

As this document will be used for both the data standard report and the implementation guidelines, it includes both the logical and implementation views of each of the domain sets. Standard Geospatial Domain Values (those pertaining to feature-level metadata) are not included in this document, but will be part of the Implementation Guidelines.

Legend

The background color of the item is used to distinguish between the logical data model and the physical table design.

Logical Entities and Attributes
Physical Tables and Columns

For domain values, there will be a cross reference between the logical and physical names of the attributes. In some cases, the physical implementation may include additional columns. The logical reference entity may not have a code value, but the design of the table includes a code value for each domain value. Below is an example of the mapping between the logical attribute name and the table column name.

EXAMPLE: Project Status Domain Values

PROJECT STATUS NAME	**PROJECT STATUS TEXT**	***No Corresponding Attribute***
PJT_STAT_NM	PJT_STAT_TX	PJT_STAT_CD
Started	Project has begun, first task has been assigned	S
Proposed	Project has been proposed, but no planning	P
Completed	Project is completed	C

PFC Assessment Domains

Logical Entity Name	*FUNCTIONAL RATING REFERENCE*		
Physical Domain Table	**TBD**		
		DEFAULT VALUE	**<default value or blank if none>**

Allowable Domain Values

Not Logical Attribute	*FUNCTIONAL RATING NAME*
PFC_RATECD	**PFC_RATENM**
PFC	Proper Functioning Condition
FAR	Functional - At Risk
NON	Non-Functional
UNK	Unknown

Logical Entity Name	*FUNCTIONAL RISK RATING TREND REFERENCE*		
Physical Domain Table	**TBD**		
If the area is functional-at risk, a trend is identified.		**DEFAULT VALUE**	**<default value or blank if none>**

Allowable Domain Values

FUNCTIONAL RISK RATING TREND NAME	*FUNCTIONAL RISK RATING TREND TEXT*
<COLUMN NAME1>	**<COLUMN NAME2>**
UPWARD	
DOWNWARD	
NOT APPARENT	

Logical Entity Name	*PLANT SPECIES OCCURENCE REFERENCE*		
Physical Domain Table	**TBD**		
optional		**DEFAULT VALUE**	**<no default>**

Allowable Domain Values

NOT A LOGICAL ATTRBUTE	*SPECIES ENVIRONMENT MODEL NAME*	*ECOSYSTEM TYPE NAME*	*NOT A LOGICAL ATTRIBUTE*
XXX-CD	**<COLUMN NAME2>**	**<COLUMN NAME2>**	**<COLUMN NAME2>**
UPL	OBLIGATE	UPLAND	Likely to occur < 1%
FACU	FACULTATIVE	UPLAND	Likely to occur 1-33%
FAC	FACULTATIVE		Likely to occur 33-67%
FACW	FACULTATIVE	WETLAND	Likely to occur 67-99%
OBL	OBLIGATE	WETLAND	Likely to occur > 99%
FACU-	FACULTATIVE	UPLAND	If closer to UPL
FACU+	FACULTATIVE	UPLAND	If closer to FAC
FAC-	FACULTATIVE		If closer to FACU
FAC+	FACULTATIVE		If closer to FACW
FACW-	FACULTATIVE	WETLAND	If closer to FAC
FACW+	FACULTATIVE	WETLAND	If closer to OBL

Logical Entity Name	*NO CORRESPONDING ENTITY*		
Physical Domain Table	**TBD**		
A person on the team that performs the assessment can have up to 2 disciplines.		**DEFAULT VALUE**	**<default value or blank if none>**

Allowable Domain Values

RIPARIAN ASSESSMENT MEMBER DISCIPLINE NAME
<COLUMN NAME1>
Vegetation
Hydrology
Biology
Soil/Geology

Logical Attribute Name	*RIPARIAN ASSESSMENT ELEMENT CONDITION RESPONSE CODE*		
Physical Domain Table	**TBD**		
		DEFAULT VALUE	**YES**

Allowable Domain Values

RIPARIAN ASSESSMENT ELEMENT CONDITION RESPONSE CODE	*Guidance?*
<COLUMN NAME1>	**<COLUMN NAME2>**
YES	A Yes may be adequate, not necessarily "functioning" – a riparian-wetland Reach/Site can have some less-than-optimally-functioning assessment elements and still be rated Yes.
NO	An assessment element may be determined to be a no, but it is probably functioning at some level (unless it is actually not functioning).
N/A	Not applicable
LINER	This is used for historical data sets only; where the value of yes or no cannot be determined.

Logical Entity Name	*RIPARIAN CONDITION LEVEL REFERENCE*		
Physical Domain Table	**TBD**		
Optional attribute, to be used in conjunction with the Condition Response Code.		**DEFAULT VALUE**	**MODERATE**

Allowable Domain Values

RIPARIAN CONDITION LEVEL NAME	*FUNCTIONAL RISK RATING TREND TEXT*
<COLUMN NAME1>	**<COLUMN NAME2>**
WEAK	
MODERATE	
STRONG	

Logical Entity Name	***RIPARIAN EXTERNAL FACTOR REFERENCE***		
Physical Domain Table	**TBD**		
These are external factors that are possibly contributing to the condition of the riparian location.		**DEFAULT VALUE**	**<default value or blank if none>**

Allowable Domain Values

RIPARIAN EXTERNAL FACTOR NAME
<COLUMN NAME1>
DEWATERING
DREDGING ACTIVITIES
LAND OWNERSHIP
WATERSHED CONDITION
FLOW REGULATIONS
CHANNELIZATION
AUGMENTED FLOWS
UPSTREAM CHANNEL CONDITIONS
OIL FIELD DISCHARGE
MINING ACTIVIITES
ROAD ENCROACHMENT
OTHER

Logical ENTITY Name	***RIPARIAN ELEMENT REFERENCE***		
Physical Domain Table	**TBD**		
Elements assessed for Lentic (sites) areas.		**DEFAULT VALUE**	**<default value or blank if none>**

Allowable Domain Values

RIPARIAN ELEMENT NUMBER	***RIPARIAN ELEMENT LANGUAGE TEXT***
<COLUMN NAME1>	**<COLUMN NAME2>**
LE01	Riparian-wetland area is saturated at or near the surface or inundated in “relatively frequent” events..
LE02	Fluctuation of water levels is not excessive.
LE03	Riparian-wetland area is enlarging or has achieved potential extent.
LE04	Upland watershed is not contributing to riparian-wetland degradation.
LE05	Water quality is sufficient to support riparian-wetland plants.
LE06	Natural surface or subsurface flow patterns are not altered by disturbance (i.e., hoof action, dams, dikes, trails, roads, rills, gullies, drilling activities).
LE07	Structure accommodates safe passage of flows (e.g., no headcut affecting dam or spillway).
LE08	There is diverse age-class distribution of riparian-wetland vegetation (recruitment for maintenance/recovery) .
LE09	There is diverse composition of riparian-wetland vegetation (for maintenance/recovery) [species present].
LE10	Species present indicate maintenance of riparian-wetland soil moisture characteristics.
LE11	Vegetation is comprised of those plants or plant communities that have root masses capable of withstanding wind events, wave flow events, or overland flows (e.g., storm events, snowmelt) [community types present].
LE12	Riparian-wetland plants exhibit high vigor.
LE13	Adequate riparian-wetland vegetative cover is present to protect shoreline/soil surface and dissipate energy during high wind and wave events or overland flows.
LE14	Frost or abnormal hydrologic heaving is not present.
LE15	Favorable microsite condition (i.e., woody material, water temperature, etc.) is maintained by adjacent site characteristics.
LE 6	Accumulation of chemicals affecting plant productivity/composition is not apparent.
LE17	Saturation of soils (i.e., ponding, flooding frequency, and duration) is sufficient to compose and maintain hydric soils.
LE18	Underlying geologic structure/soil material/permafrost is capable of restricting water percolation.
LE19	Riparian-wetland is in balance with the water and sediment being supplied by the watershed (i.e., no excessive erosion or deposition)
LE20	Islands and shoreline characteristics (i.e., rocks, coarse and/or large woody material) are adequate to dissipate wind and wave event energies.

Logical ENTITY Name	*RIPARIAN ECOSYSTEM ELEMENT*		
Physical Domain Table	**TBD - GUIDE**		
Additional element information for Lentic (sites) areas. If the Element Required Code is "YES", the element is required, if "NO", this element is not required).		**DEFAULT VALUE**	**<default value or blank if none>**

Allowable Domain Values

RIPARIAN ELEMENT NUMBER	*RIPARIAN ELEMENT FOCUS NAME*	*RIPARIAN ECOSYSTEM ELEMENT REQUIRED CODE*
<COLUMN NAME1>	**<COLUMN NAME2>**	**<COLUMN NAME2>**
LE01	HYDROLOGY	Yes
LE02	HYDROLOGY	No
LE03	HYDROLOGY	No
LE04	HYDROLOGY	Yes
LE05	HYDROLOGY	No
LE06	HYDROLOGY	Yes
LE07	HYDROLOGY	No
LE08	VEGETATION	No
LE09	VEGETATION	No
LE10	VEGETATION	No
LE11	VEGETATION	No
LE12	VEGETATION	No
LE13	VEGETATION	No
LE14	VEGETATION	No
LE15	VEGETATION	No
LE16	EROSION/DEPOSITION	No
LE17	EROSION/DEPOSITION	No
LE18	EROSION/DEPOSITION	No
LE19	EROSION/DEPOSITION	Yes
LE20	EROSION/DEPOSITION	No

Logical ENTITY Name	***RIPARIAN ELEMENT REFERENCE***		
Physical Domain Table	**TBD**		
Elements assessed for Lotic (reach) areas.		**DEFAULT VALUE**	**<default value or blank if none>**

Allowable Domain Values

RIPARIAN ELEMENT NUMBER	***RIPARIAN ELEMENT LANGUAGE TEXT***
<COLUMN NAME1>	**<COLUMN NAME2>**
LO01	Floodplain above bankfull is inundated in "relatively frequent" events.
LO02	Where beaver dams are present are they active and stable.
LO03	Sinuosity, width/depth ratio, and gradient are in balance with the landscape setting landform, geology, and bioclimatic region).
LO04	Riparian-wetland area is widening or has achieved potential extent.
LO05	Upland watershed is not contributing to riparian-wetland degradation.
LO06	Diverse age-class distribution of ripariim-wetland vegetation (recruitment for maintenance/recovery).
LO07	Diverse composition of riparian-wetland vegetation (for maintenance/recovery).
LO08	Species present indicate maintenance riparian-wetland soil moisture characteristics.
LO09	Streambank vegetation is comprised of those plants or plant communities that have root masses capable of withstanding high-streamflow events [community types present].
LO10	Riparian-wetland plants exhibit high vigor.
LO11	Adequate riparian-wetland vegetative cover is present to protect banks and dissipate energy during high flows [enough?].
LO12	Plant communities are an adequate source of coarse and/or large woody material (for maintenance/recovery).
LO13	Floodplain and channel characteristics (i.e., rocks, overflow channels, coarse and/or large woody material) are adequate to dissipate energy.
LO14	Point bars are revegetating with riparian-wetland vegetation.
LO15	Lateral stream movement is associated with natural sinuosity.
LO 6	System is vertically stable.
LO17	Stream is in balance with the water and sediment being supplied by the watershed (i.e., no excessive erosion or deposition).

Logical ENTITY Name	*RIPARIAN ECOSYSTEM ELEMENT*		
Physical Domain Table	**TBD - GUIDE**		
Additional element information for Lotic (reach) areas. If the Element Required Code is "YES", the element is required, if "NO", this element is not required).		**DEFAULT VALUE**	**<default value or blank if none>**

Allowable Domain Values

RIPARIAN ELEMENT NUMBER	*RIPARIAN ELEMENT FOCUS NAME*
<COLUMN NAME1>	**<COLUMN NAME2>**

RIPARIAN ELEMENT NUMBER	*RIPARIAN ELEMENT FOCUS NAME*	*RIPARIAN ECOSYSTEM ELEMENT REQUIRED CODE*
<COLUMN NAME1>	**<COLUMN NAME2>**	**<COLUMN NAME2>**
LO01	HYDROLOGY	No
LO02	HYDROLOGY	No
LO03	HYDROLOGY	Yes
LO04	HYDROLOGY	No
LO05	HYDROLOGY	Yes
LO06	VEGETATION	No
LO07	VEGETATION	No
LO08	VEGETATION	No
LO09	VEGETATION	No
LO10	VEGETATION	No
LO11	VEGETATION	No
LO12	VEGETATION	No
LO13	EROSION/DEPOSITION	Yes
LO14	EROSION/DEPOSITION	No
LO15	EROSION/DEPOSITION	Yes
LO16	EROSION/DEPOSITION	Yes
LO17	EROSION/DEPOSITION	Yes

Logical Entity Name	*NO CORRESPONDING ENTITY*		
Physical Domain Table	**TBD**		
This documents the reason why a photo point location is linked to an aquatic resource location.		**DEFAULT VALUE**	**<default value or blank if none>**

Allowable Domain Values

RELATED LOCATION REASON NAME	***RELATED LOCATION REASON NAME***
<COLUMN NAME1>	**<COLUMN NAME2>**
	REPRESENTATIVE PFC
	INTEREST POINT
	MONITORING
	REFERENCE

Logical Entity Name	*PHYSICAL ONLY*		
Physical Domain Table	**TBD (photo direction)**		
The direction from which the photograph was taken (relative to the reach or site).		**DEFAULT VALUE**	

Allowable Domain Values

Not a logical attribute

PHOTO_DRCTN	
USL	Upstream From Left Bank
USR	Upstream From Right Bank
DSL	Downstream From Left Bank
DSR	Downstream From Right Bank
QRTRUL	Quartering (45 degrees) Upstream From Left Bank
QRTRUR	Quartering (45 degrees) Upstream From Right Bank
ACL	Across From Left Bank
QRTRDR	Quartering Downstream From Right Bank
QRTRDL	Quartering Downstream From Left Bank
ACR	Across From Right Bank
Other	