

# MONITORING GLOSSARY

Draft Introductory White Paper  
Draft Dictionary for Various Schemas

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# GOALS

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- ✘ Provide a succinct list of indicators and metrics for monitoring projects in the Pacific Northwest;
- ✘ Provide a keyword thesaurus and controlled vocabulary in functional formats to be used by other applications and tools;
- ✘ Reconcile differences in terminology between monitoring groups;
- ✘ Further define the 'who is doing what' aspect of metadata development for aquatic monitoring activities in the region.

## **BASED ON AN ENVIRONMENTAL DATA SCHEMA**

- × Performance Measures
- × Indicators
- × Metrics
- × Attributes
- × Attribute Codes
- × Protocols and Methods (Protocol Manager Project)
- × Project Data (PCSRF and Effectiveness Monitoring Project)
- × Location Data (NED Best Practices for Time and Location)

## **LINKED TO EXISTING WORK**

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- ✘ PNAMP Protocol and Method Library Catalog
- ✘ NWEIS Task 2 Abundance Data Dictionary
- ✘ Puget Sound Partnership Indicators
- ✘ Integrated Status and Trend Monitoring Project Indicators
- ✘ PNAMP High Level Indicators Project
- ✘ PNAMP Effectiveness Monitoring Project

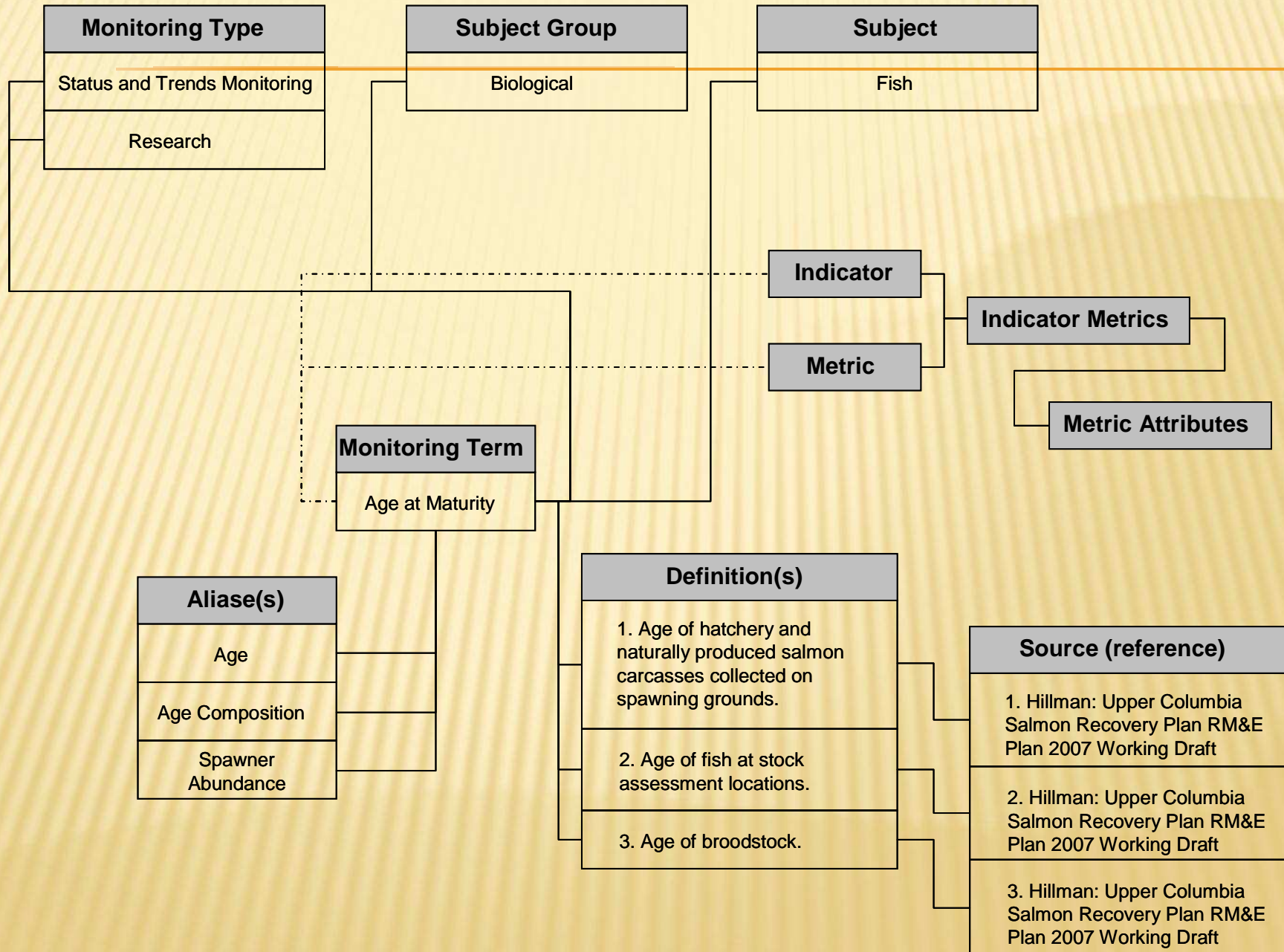
# INDICATOR/METRIC EXAMPLES

mon_element_id	mon_element_name
1	Abundance Geometric Mean (10 yr)
2	Acidity
3	Adult presence/absence
4	Adults
5	Age
6	Age at maturation (frequency distribution)
7	Age at Maturity
8	Age at migration (frequency distribution)
9	Age Composition
11	age structure
12	Age, Saltwater
13	Age, Total
14	Agricultural Pasture
15	Agricultural Cropland
16	Agricultural Irrigation Equipment
17	Agricultural Livestock Use
18	Agricultural Orchards
19	Agricultural Poultry
20	Agricultural Water Withdrawal
21	Air Temperatures (°C)
22	Algae
23	Allele frequency
24	Artificial structures
25	Assemblage_ID_Flag
26	Average Flow
27	Background/Reference Sample
28	Bank
29	Bank Stability
30	Bank Stability Left Bank
31	Bank Stability Right Bank
32	Bankfull Width
33	Basin area
34	Basin relief



mon_element_id	definition_text
1	Calculate 10 and 12-yr GM for abundance of naturally produced fish (Provide Equation and varia
2	A measure of the concentration of hydrogen ions.
3	Reconnaissance surveys of non-index areas
4	Number and time of adults passing counting, collection, or detection stations
5	Age composition from both broodstock and carcasses (scale analysis).
5	Ages of hatchery and naturally produced fish sampled at broodstock collection sites, during car
7	Age of hatchery and naturally produced salmon carcasses collected on spawning grounds.
7	Age of fish at stock assessment locations.
7	Age of broodstock.
8	Life History Diversity
9	Age composition from both broodstock and carcasses (from scale analysis)
11	Calculate the age structure of the spawning population.
12	Calculate saltwater age
13	Calculate total age
14	Not Defined
15	Not Defined
16	Not Defined
17	Not Defined
18	Not Defined
19	Not Defined
20	Not Defined
21	Not Defined
22	Not Defined
23	Allele Frequency is based on Microsatellite genotypes
24	In-channel artificial structures may include those designed for fish habitat enhancement and al
25	Not Defined
26	The rate at which water moves by a given point.
27	A background sample is collected from an area outside, but near to, the area of suspected conta
28	Not Defined
29	Not Defined
30	Not Defined
31	Not Defined
32	Bankfull width will be measured at each major transect. Using the compass and laser, 10 points
33	Not Defined

# EXAMPLE RELATIONSHIPS AND TERM



## NEXT STEP

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- ✘ Identify Direction or Focus of Task on key schemas and key content;
- ✘ Develop Data Entry Interface: Web-based for data entry;
- ✘ External review of draft schemas and example content;
- ✘ Add Content: Project managers should identify and provide lists of indicators, metrics, and performance measures to be assimilated into Glossary.
- ✘ Validate Content: Project Managers and/or content experts evaluate their entries and define/classify these as appropriate.
- ✘ Approve and Recommend Standards: Content is reviewed by a panel of content experts who scrutinize content and provide a final recommendation based on expert opinion.