LANFIM17
Collect data from fish

Overview

This standard is about being able to work with fisheries data. It covers being able to analyse fish to produce standard forms of fisheries data to support the management of fisheries.

This standard requires the assessment of dead fish using:
1. stomach content analysis
2. internal parasite loading
3. external parasite loading
4. sex and maturation
5. internal gross pathology
6. external gross pathology

This standard requires that you carry out work safely in line with health and safety requirements and that you work to maintain bio-security and minimise environmental disturbance at all times.

The legislation controlling the application of this standard will vary depending on the location of the fishery within England, Wales, Northern Ireland or Scotland.

Performance criteria

You must be able to:

P1   maintain traceability and control of samples

P2   prepare samples for analysis according to organisation requirements

P3   prepare and maintain equipment into a serviceable condition

P4   use equipment to accurately collect and interpret data

P5   analyse samples according to standard protocols

P6   report any observations that fall outside own understanding

P7   dispose of waste according to organisational procedures

P8   sterilise and store equipment after use

P9   accurately record and present data using organisational systems

P10   complete error checks on data collected

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Knowledge and understanding

You need to know and understand:

K1   how to prepare samples for analysis

K2   how to use standard protocols for ageing and back calculations of growth patterns (scales and using bones)

K3   how to extract materials to use in ageing

K4   basic fish physiology

K5   basic fish anatomy

K6   how to access additional advice and support

K7   common fish abnormalities and their causes

K8   the importance of maintaining bio-security

K9   common fish parasites (internal and external)

K10 how to identify and classify stomach contents

K11 the importance of error checking

K12 data presentation techniques (length/frequency histograms)

K13 basic statistical techniques

K14 units for presenting data

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