

## Collate, analyse and present fisheries population data

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### Overview

This standard is about collating, analysing and presenting fisheries population data. It covers analysing length/frequency data, length at age data, catch/unit effort or other abundance data and species abundance/year class data.

This standard also requires that the following characteristics are determined for fish populations:

1. condition factor
2. population structure
3. abnormalities in population growth.

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

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

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## Performance criteria

*You must be able to:*

1. confirm that the collation, analysis and presentation of fisheries population data is carried out safely, in line with the relevant health and safety requirements
2. obtain and collate reference information and fisheries population data
3. complete checks to ensure the validity of the fisheries population data
4. process and analyse fisheries population data using recognised techniques to determine the characteristics and trends of a fisheries population
5. compare results with expected norms for the fish population in a fishery
6. report and present fisheries population data in an appropriate format to relevant parties
7. store and archive all fisheries population data in accordance with relevant legal and organisational requirements

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## Knowledge and understanding

*You need to know and understand:*

1. the health and safety requirements associated with the collation, analysis and presentation of fisheries population data
2. how to collate fisheries population data for analysis
3. the main parameters used to assess fisheries populations
4. the expected characteristics and structure of the fisheries population being studied
5. how to obtain and collate reference data in respect of different fish species
6. how to analyse fisheries population data using a variety of techniques
7. how natural variations can impact on fisheries population data
8. how to identify trends and understand their significance in fisheries population data
9. how to present fisheries population data and findings (e.g. using graphs, tables and charts)
10. the importance of storing and archiving fisheries population data in accordance with legal and organisational requirements
11. the relevant legal and organisational requirements for record keeping

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## Glossary

Parameters:

- Folton's condition factor, K
- Weight-length relationship (WLR)
- Fork-length frequency

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<b>Developed by</b>	Lantra
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<b>Originating Organisation</b>	Lantra
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<b>Relevant Occupations</b>	Fisheries Biologist; Field Assistant; Fisheries Development Officer
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<b>Suite</b>	Fisheries Management
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<b>Keywords</b>	catching; fish; fishery; safe; handling; methods
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