

# ISO/TS 19138:2006-12 (E)

## Geographic information - Data quality measures

---

| <b>Contents</b>  | <b>Page</b> |
|--|-------------|
| Foreword .....   | iv          |
| Introduction .....   | v           |
| 1 Scope .....  | 1           |
| 2 Conformance .....  | 1           |
| 3 Normative references .....   | 1           |
| 4 Terms and definitions .....  | 1           |
| 5 Relationships to other standards .....                                 | 2           |
| 6 Register .....   | 3           |
| 7 Components of a data quality measure .....                             | 3           |
| 7.1 List of components .....   | 3           |
| 7.2 Component details .....  | 4           |
| 7.3 Standardized data quality measures .....                             | 6           |
| Annex A (normative) Abstract test suite .....                            | 7           |
| A.1 Test case identifier: Component test .....                           | 7           |
| A.2 Test case identifier: Name test .....                                | 7           |
| A.3 Test case identifier: Data quality element and subelement test ..... | 7           |
| A.4 Test case identifier: Data quality basic measure test .....          | 8           |
| A.5 Test case identifier: Definition test .....                          | 8           |
| A.6 Test case identifier: Description test .....                         | 8           |
| A.7 Test case identifier: Parameter test .....                           | 8           |
| A.8 Test case identifier: Data quality value type test .....             | 8           |
| A.9 Test case identifier: Source reference test .....                    | 9           |
| A.10 Test case identifier: Example test .....                            | 9           |
| Annex B (normative) Structure of data quality measures .....             | 10          |
| B.1 Components defining a data quality measure .....                     | 10          |
| B.2 Mapping of the components to ISO 19115 and ISO 19135 .....           | 11          |
| B.3 UML-diagram for data quality measure .....                           | 11          |
| Annex C (normative) Data quality basic measures .....                    | 14          |
| C.1 Purpose of data quality basic measures .....                         | 14          |
| C.2 Counting-related data quality basic measures .....                   | 14          |
| C.3 Uncertainty-related data quality basic measures .....                | 15          |
| Annex D (normative) List of data quality measures .....                  | 19          |
| D.1 Completeness .....   | 19          |
| D.2 Logical consistency .....  | 23          |
| D.3 Positional accuracy .....  | 37          |
| D.4 Temporal accuracy .....  | 58          |
| D.5 Thematic accuracy .....  | 61          |
| Bibliography .....   | 68          |