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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

LY/T 3330-2022

Technical regulations for forest soil carbon stock survey

森林土壤碳储量调查技术规程

(English Translation)

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Table of Contents

Preface	
1 Scope	
2 Normative references	
3 Terms and Definitions	
4 General provisions	
4.1 Scope of investigation	
4.2 Investigation Principle	
4.3 Survey interval	
4.4 Investigation time	
5 Technical data preparation	
5.1 Topography	
5.2 Soil data	
5.3 Forest vegetation	
6 Sample layout	
6.1 Layout plan	
6.2 Estimating the sample size	
7 Sample survey	
7.1 Plot layout	
7.2 Materials and Tools	
8 Soil profile survey	
8.1 Soil profile selection principles	
8.2 Soil profile excavation	
8.3 Soil profile records	
9 Sample Collection	
9.1 Soil sampling	
9.2 Undisturbed soil samples	
9.3 Soil profile samples	
9.4 Sample packaging and labeling	
9.5 Soil profile backfilling	
10 Sample handling	
10.1 Sample pretreatment (air drying)	
10.2 Gravel separation	

11 Analysis of Soil Carbon Content

11.1 Gravel volume and density

11.2 Volume and density of fine particles

11.3 Soil carbon density

11.4 Profile Soil Carbon Storage

12 Soil carbon storage calculation

Appendix A (Normative) Division of Forest Soil Genetic Layers

Appendix B (Normative) Terrain Classification and Description

Reference

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1: Structure and Drafting Rules for Standardization Documents" drafting:

Please note that some contents of this document may refer to patents: The issuing agency of this document assumes no responsibility for identifying patents:

This document was proposed by the Chinese Academy of Forestry Sciences:

This document is under the jurisdiction of the State Forestry and Grassland Administration:

1 Scope

This document stipulates the preliminary preparation, sample point layout, sample collection, laboratory analysis and soil carbon storage measurement of forest soil carbon storage:

calculation method:

This document is applicable to forest soil carbon stock surveys:

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text: Among them, dated references for documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to this document:

GB/T 17296 China Soil Classification and Code LY/T 1237 Determination of forest soil organic matter and calculation of carbon-nitrogen ratio LY/T 1952-2011 Long-term

positioning observation method of forest ecosystem LY/T 2188.1 Technical Specifications for Forest Resource Data Collection Part 1: Continuous Forest Resource Inventory LY/T 2188.2 Technical Specifications for Forest Resource Data Acquisition Part 2: Survey of Forest Resource Planning and Design

3 Terms and Definitions

The following terms and definitions apply to this document:

forest soil forest soil the general term for all kinds of soils that develop under woody vegetation:

Note: This document refers to the soil under natural forests, secondary forests and artificial forests, as well as barren hills and wasteland suitable for forests:

Soil carbon storage soil carbon pool the total amount of soil organic carbon and inorganic carbon in a specific area and depth of soil:

Note: The storage of soil organic carbon is the average between the amount of plant, animal and microbial residues entering the soil and the amount of decomposition loss under the action of soil microorganisms:

balance result:

Soil carbon density soil carbon density the storage of soil organic carbon per unit area at a specified depth of soil layer:

Note: The unit is tC/hm² or kgC/m²:

4 General provisions

4.1

Scope of investigation geographic or administrative area

Including countries, administrative regions, ecological function areas, geographical units, forest types, forest stands and other scales: