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Nota di contenuto	Soil Carbon in Sensitive European Ecosystems; Contents; Contributors; 1 Introduction to carbon in sensitive European ecosystems: from science to land management; 1.1 Rationale for this book; 1.2 What do we need to know about soils for reporting purposes?; 1.3 Objectives and overview of COST Action 639; 1.4 Working Groups of COST Action

		<ul> <li>639; 1.5 Regional coverage; Appendix 1.A Management Committee of COST Action 639; References; 2 Hot spots and hot moments for greenhouse gas emissions from soils; 2.1 Introduction; 2.2 Hot spots: where are they?; 2.3 How to quantify hot spots?</li> <li>2.4 Mapping soil carbon at the local and regional scale 2.5 Case study: assessing soil carbon changes across England and Wales; 2.6 Quantifying hot moments; 2.7 Reporting of hot spots and hot moments; 2.8 Conclusions; References; 3 Land-use change effects on soil carbon stocks in temperate regions - development of carbon response functions; 3.1 Introduction; 3.2 Previous synthesis studies on land use change effects on SOC; 3.3 The concept of carbon response functions; 3.4 Implication for greenhouse gas reporting 3.6 Conclusions References; 4 Carbon in European solis; 4.1 Existing soil carbon inventories in Europe; 4.2 Detectability of change from soil inventories; 4.3 Assessment of baseline carbon stocks in Europe; 4.4 Pattern detection and predictors for carbon storage at landscape and continental scale; 4.5 Conclusions about soil carbon baselines and change detection in Europe; References; 5 Ecosystem disturbance and soil organic carbon - a review; 5.1 Introduction; 5.2 The carbon cycle and disturbance; 5.3 Anthropogenic disturbance due to forest harvesting; 5.4 Natural disturbances</li> <li>5.5 Summary and conclusions References; 6 Mountain soils in a changing climate - vulnerability of carbon stocks and ecosystem feed backs; 6.1 Introduction; 6.2 Carbon stocks and ecosystem feed backs; 6.1 Introduction; 6.2 Carbon stocks and their quality; 6.3 The role of erosion for carbon fluxes; 6.4 Climate change in European mountains; 6.5 Future threats to high altitude carbon storage; 6.6 Conclusions; Acknowledgement; References; 7 Greenhouse gas balance in disturbances of greenhouse gases from managed peatlands 7.5 Recovery from peat loss: restoration, afforestation or energy crops?; 7.6 Conclusions; References; 8 Soil carbon in Mediterranean ecosystems; 8.4 E</li></ul>
Sommario/riass	sunto	Soil Carbon in Sensitive European Ecosystems - From Science to Land Management is a comprehensive overview of the latest research in this field drawn together by a network of scientists from across Europe. Soil carbon assessments are crucial at present to our understanding of the dynamics of terrestrial ecosystems and our ability to assess implications for the global carbon exchange and its consequences on the future climate. This book focuses primarily on ecosystems and their soil carbon stocks. The book identifies three key sensitive ecosystems within Europe: Mediterranean