

1. Record Nr.	UNINA9910827779503321
Titolo	Carbofuran and wildlife poisoning : global perspectives and forensic approaches // [edited by] Ngaio Richards
Pubbl/distr/stampa	Hoboken, NJ, : Wiley-Blackwell, c2012
ISBN	1-283-33777-0 9786613337771 1-119-99853-0 1-119-99854-9
Edizione	[1st ed.]
Descrizione fisica	1 online resource (305 p.)
Altri autori (Persone)	RichardsNgaio
Disciplina	363.738/498
Soggetti	Carbofuran - Environmental aspects Carbofuran - Toxicology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Carbofuran and Wildlife Poisoning: Global Perspectives and Forensic Approaches; Contents; Preface; Acknowledgements; Contributor Biographies; 1: An overview of the chemistry, manufacture, environmental fate and detection of carbofuran; 1.1: Introduction; 1.2: The chemistry and mode of action of carbofuran; 1.3: Manufacture and formulation of carbofuran; 1.4: Carbofuran in the environment; 1.4.1: Carbofuran precursors, metabolism and degradation products; 1.5: Analytical methods used to detect carbofuran; 1.5.1: Principles of chromatography; 1.6: Conclusions; Acknowledgements; References 2: Carbofuran: Toxicity, diagnosing poisoning and rehabilitation of poisoned birds 2.1: Acute toxicity of carbofuran to birds and mammals; 2.2: Exposure routes for the liquid formulation; 2.3: Exposure routes for granular carbofuran formulations; 2.3.1: Direct ingestion; 2.3.2: Contaminated soil invertebrates; 2.3.3: Contaminated soil/sediments; 2.4: The time course of carbofuran intoxication; 2.5: Physiological effects and signs of intoxication; 2.6: Physical field evidence and necropsy findings in poisonings due to AChE inhibiting compounds with special emphasis on carbofuran 2.7: Chemical and biochemical diagnosis of a carbofuran kill 2.8:

Rehabilitation of poisoned wildlife; 2.9: Conclusion; Acknowledgements; References; 3: A chronicling of long-standing carbofuran use and its menace to wildlife in Kenya; 3.1: Introduction; 3.2: Background on pesticide use and environmental monitoring in Kenya; 3.2.1: Furadan use in rice farming: how carbofuran first gained entry into Kenya; 3.2.2: Presence, persistence and degradation of carbofuran in Kenyan soils; 3.2.3: General purchase and application of pesticides
3.2.4: General trends in use of pesticides in agricultural communities
3.3: Measuring the conservation threat that deliberate poisoning poses to birds in Kenya: The case of pesticide hunting with Furadan in the Bunyala Rice Irrigation Scheme; 3.3.1: Introduction; 3.3.2: Methodology; 3.3.3: Results of the study; 3.3.4: Discussion; 3.3.5: General conclusions; 3.4: The role of carbofuran in the decline of lions and other carnivores in Kenya; 3.4.1: Background information; 3.4.2: Use of poison to kill carnivores in Kenya; 3.4.3: Methods used to assess repercussions to scavenging mammals
3.4.4: Results 3.4.5: Discussion; 3.5: Threats of secondary Furadan poisoning to scavengers, especially vultures, in Kenya; 3.5.1: Misuse of Furadan to control farm pests; 3.5.2: Effects of Furadan on vulture populations in Kenya; 3.6: Forensic analysis of carbofuran in vultures and environmental samples collected from Laikipia and Isiolo districts; 3.6.1: Survey result; 3.6.2: Analysis of environmental sample; 3.6.3: Conclusions of the study; 3.7: Repercussions of pesticides (including carbofuran) on nontarget, beneficial insects and use of insects in forensic analyses in Kenya
3.7.1: Studies on nontarget insects

Sommario/riassunto

This cutting-edge title is one of the first devoted entirely to the issue of carbofuran and wildlife mortality. It features a compilation of international contributions from policy-makers, researchers, conservationists and forensic practitioners and provides a summary of the history and mode of action of carbofuran, and its current global use. It covers wildlife mortality stemming from legal and illegal uses to this point, outlines wildlife rehabilitation, forensic and conservation approaches, and discuss global trends in responding to the wildlife mortality. The subject of carbofuran is ver
