

1. Record Nr.	UNINA9910810097103321
Titolo	Agriculture and the nitrogen cycle : assessing the impacts of fertilizer use on food production and the environment / / edited by Arvin Mosier, J. Keith Syers, and John R. Freney
Pubbl/distr/stampa	Washington, D.C., : Island Press, c2004
ISBN	1-59726-743-0 1-4356-4858-7
Edizione	[1st ed.]
Descrizione fisica	1 online resource (320 p.)
Collana	SCOPE ; ; 65
Altri autori (Persone)	MosierArvin SyersJohn K (John Keith) FreneyJ. R (John Raymond)
Disciplina	631.8/4
Soggetti	Nitrogen fertilizers Nitrogen fertilizers - Environmental aspects Nitrogen cycle
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"A project of SCOPE, the Scientific Committee on Problems of the Environment of the International council for Science."
Nota di bibliografia	Includes bibliographical references (p.) and index.
Nota di contenuto	""Title Page""; ""Copyright Page""; ""Table of Contents""; ""List of Figures and Tables""; ""Foreword""; ""Preface""; ""Acknowledgments""; ""Part I: Overview""; ""Ch. 1: Nitrogen Fertilizer: An Essential Component of Increased Food, Feed, and Fiber Production""; ""Part II: Crosscutting Issues""; ""Ch. 2: Crop, Environmental, and Management Factors Affecting Nitrogen Use Efficiency""; ""Ch. 3: Emerging Technologies to Increase the Efficiency of Use of Fertilizer Nitrogen""; ""Ch. 4: Pathways of Nitrogen Loss and Their Impacts on Human Health and the Environment"" ""Ch. 5: Societal Responses for Addressing Nitrogen Fertilizer Needs: Balancing Food Production and Environmental Concerns""""Part III: Low-input Systems""; ""Ch. 6: Improving Fertilizer Nitrogen Use Efficiency Through an Ecosystem-based Approach""; ""Ch. 7: Nitrogen Dynamics in Legume-based Pasture Systems""; ""Ch. 8: Management of Nitrogen Fertilizer in Maize-based Systems in Subhumid Areas of Sub-Saharan Africa""; ""Ch. 9: Integrated Nitrogen Input Systems in Denmark""; ""Part

IV: High-input Systems"; "Ch. 10: Rice Systems in China with High Nitrogen Inputs"

"Ch. 11: Using Advanced Technologies to Refine Nitrogen Management at the Farm Scale: A Case Study from the U.S. Midwest"; "Ch. 12: Impact of Management Systems on Fertilizer Nitrogen Use Efficiency"; "Part V: Interactions and Scales"; "Ch. 13: Fertilizer Nitrogen Use Efficiency as Influenced by Interactions with Other Nutrients"; "Ch. 14: An Assessment of Fertilizer Nitrogen Recovery Efficiency by Grain Crops"; "Ch. 15: Pathways and Losses of Fertilizer Nitrogen at Different Scales"; "Ch. 16: Current Nitrogen Inputs to World Regions"; "Part VI: Challenges"

"Ch. 17: Challenges and Opportunities for the Fertilizer Industry"; "Ch. 18: The Role of Nitrogen in Sustaining Food Production and Estimating Future Nitrogen Fertilizer Needs to Meet Food Demand"; "Ch. 19: Environmental Dimensions of Fertilizer Nitrogen: What Can Be Done to Increase Nitrogen Use Efficiency and Ensure Global Food Security?"; "Appendix"; "List of Contributors"; "SCOPE Series List"; "SCOPE Executive Committee 2001-2004"; "Index"
