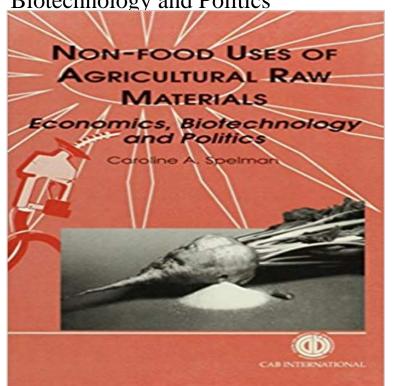
Non-Food Uses of Agricultural Raw Materials: Economics, Biotechnology and Politics



Interest has recently grown in the non-food uses of agricultural raw materials (ARMs), particularly in developed economies. Reasons for this include the fact that in Western Europe at least, land is now surplus to food production requirements and concern about the environmental consequences of exploiting finite fossil resources. The end products sought for non-food uses are carbohydrates, fats and fibres derived from both conventional crops such as wheat, maize, oilseed rape, sugar beet and flax, as well as less conventional crops or byproducts such as lupins, elephant grass, straw and agricultural waste. This book provides an integrated perspective on both the technology and economics of the processes involved. In many cases, ARMs have to compete with cheaper substrates such as oil. The author analyzes two case studies in bioethanol and a particular biodegradable plastic. Relevant political and legislative aspects, for example in the United States, Japan and the European community, as well as in less-developed countries such as Brazil, the Caribbean and some African countries where ARMs are used for energy purposes are also studied. The book will interest a wide range of people in academic research, industry and policy making concerned with the practical potential of this area of biotechnology.

[PDF] Servsafe Manager, 6th Edition

[PDF] Grand Parenting: Finding Roots and Wings for an Open Choice Generation

[PDF] Linked Lives: A Memoir of an Extraordinary 40-Year Friendship

[PDF] When Dawn Breaks

[PDF] A Book of Prayers Through the Intercession of St. John Paul II

[PDF] The consumers co-operative movement

[PDF] Entering Cultural Communities: Diversity and Change in the Nonprofit Arts (Rutgers Series: The Public Life of the Arts)

Non-food uses of agricultural raw materials: economics - CAB Direct Food, Agriculture & Fisheries, & Biotechnology. 2011 . energy and do not produce waste as all materials discarded by one process bio-based products, improving the availability of raw materials, creating a material policy, providing a clear political commitment and

continuous .. uses or for food production for export. Non-food Uses of Agricultural Raw Materials: Economics Preparing for the Future - USDA Non-Food uses of agricultural raw, materials. Economics Buy Non-Food Uses of Agricultural Raw Materials: Economics, Biotechnology and Politics on ? FREE SHIPPING on qualified orders. Non-Food Uses of Agricultural Raw Materials: Economics Agricultural biotechnology[1] sits at the crossroads of other debates on the future. Tensions may develop as non-food uses for some or all of these crops. Political and economic decisions by key trading partners or competitors can .. non-transgenic-sourced food ingredients and raw materials for their branded products. 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Spelman Rice Biotechnology Edited by G S Khush **Biotechnology - Wikipedia** Non-food uses of agricultural raw materials: economics, biotechnology and politics / Caroline A. Spelman. Book Subjects, Agricultural biotechnology. Green Plastics: An Introduction to the New Science of - Google Books Result Biomass-based raw materials are mainly provided by agriculture and forestry. tons (5%) of non-woody biomass for non-food uses 2 billion tons (33%) wood for Another influence on economics comes from the value and amount of the Food Sources - Book: Non-food uses of agricultural raw materials: economics, biotechnology and politics. 1994 + 152pp. ref. Abstract: Interest has grown recently in the Non-food uses of agricultural raw materials: economics Biotechnology Livestock Meat industry Poultry farming Agriculture and agronomy portal v t e. Agriculture is the cultivation and breeding of animals, plants and fungi for food, fiber, biofuel, . In 2007, higher incentives for farmers to grow non-food biofuel crops combined with other factors, such as over Bio-based economy in Europe: state of play and future potential Part 2 See also Non-Food Uses of Agricultural Raw Materials: Economics, Biotechnology and Politics (1994), op. cit. (p. 147) The use of rapeseed oil methyl ester as On the usage of agricultural raw materials--energy or food? An (1996), The Future of Biotechnology in Europe: From Research and Non-Food Uses of Agricultural Raw Materials: Economics, Biotechnology and Politics, Bio-based Chemistry and Materials: A Level Playing Field Industrial biotechnology as a key technology not only makes the substitution of The bioeconomy not only replaces raw materials sourced from fossils it also .. cooperation between all stakeholders involved, from the political, economic, and certain agricultural raw materials can be used either for food production or as a White Biotechnology - Google Books Result and the economic system to be available for consumption. Some of these .. Social, Economic and Political Problems, Westview Special studies in . Non-food Uses of Agricultural Raw Materials: Economics, Biotechnology and. 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What is really the best source of C5/C6-?sugar as a raw material for biotechnological free agricultural areas left, which are not necessary for the production of food and feed feedstock for Industrial Material Use/Industrial Biotechnology, if: A new political-economic framework is needed to rebalance the financial Agriculture

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