

Full Length Research Paper

Economy-wide effects of drought on South African Agriculture: A computable general equilibrium (CGE) analysis

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South Africa's agricultural sector is comprised of livestock, field crops and fruit in their order of size, in gross value terms. Agriculture in South Africa accounts for a relatively low share in the economy (3% of gross domestic product - GDP), 6% of employment and about 10% of exports (over R144 billion in 2015). Currently (2015/16), South Africa is experiencing the worst drought in over 100 years, which has resulted in significant effects on agriculture, with eight of the nine provinces being declared disaster areas. The motivation of the study was to understand the severity of drought on agriculture as well the impact on the whole economy (to quantify the economy-wide effects/losses emanating from the drought). To quantify these effects a single-country computable general equilibrium (CGE) model was used. Four scenarios were developed: Impact of field crops losses; impact of livestock losses; impact of aggregated agriculture losses; and impact of aggregated agriculture losses plus drought relief. The analysis shows that all scenarios led to a negative impact on GDP, employment and exports while the drought relief was found to have saved some jobs, albeit not significantly.

Key words: Drought, computable general equilibrium (CGE) model, field crops, livestock and fruit, GEMPACK.

INTRODUCTION

Based on gross value of production, South Africa's agricultural sector is comprised of livestock (e.g. beef, poultry, game, sheep and others) as the biggest sub-sector, followed by field crops (e.g. maize, wheat, sugar, beans, barley, sorghum and oilseeds) and fruit (e.g. fruits, nuts, flowers and vegetables). Agriculture accounts a relatively small share in the economy (3% of GDP),

6% of employment and about 10% of exports (over R144 billion in 2015) (StatsSA, 2015). From a developmental viewpoint, agriculture plays a pivotal role in ensuring food security and providing jobs for low skilled people in the country. Furthermore, agriculture provides raw materials to secondary sectors such as manufacturing and retail which reduces the country's dependency on international

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Economics of African Agriculture John Levi, Michael Ashley Havinden, 1982 Descriptive background Historical evolution Labour and time Land Capital and change Agricultural policy history Development ends and means **Economics of African Agriculture** John Levi, Michael Havinden, **Institutional Economics Perspectives on African Agricultural Development** Johann Kirsten, 2009-01-01 Millions of Africans spend their entire lives poor hungry and malnourished and most depend on agriculture for their livelihoods either directly or indirectly Despite its potential to drive economic growth and poverty reduction however African agricultural development has remained disappointing whether because of underinvestment or poor returns to investments This book Institutional Economics Perspectives on African Agricultural Development is inspired by the conviction that effective African agricultural development requires building better institutions It provides an accessible synthesis of new institutional economics theory and research into understanding and improving African agriculture particularly smallholder agriculture Interspersing theory with case studies from a wide range of countries the book addresses such policy issues as how markets for different commodities and services function in different political cultural and economic contexts It not only makes an important contribution to the existing literature but also provides development practitioners policymakers and graduate students working or intending to work in these fields with essential knowledge and tools for addressing these challenges OVERVIEW Theoretical and Conceptual Framework Exchange in Goods and Services Natural Resources Management and An Institutional Perspective on the State Its Role and Challenges *An Economic Analysis of Southern African Agriculture* William R. Duggan, 1986 [The Effects of Economic Policies on African Agriculture](#) William Kenneth Jaeger, 1992 This paper uses newly compiled data and a wide range of empirical analysis to assess the impact of government policies on agricultural exports and food production over the past two decades and across most sub Saharan countries While direct government control of marketing and prices of export crops has discouraged exports disincentives created indirectly by overvalued currencies have been more damaging to agricultural supply in sub Saharan Africa than in other regions The rise of imported food to Africa has resulted mostly from factors that encourage consumers to eat imported food and not from a failure of domestic production as often assumed These factors include overvalued currencies which reduce the price of imported food falling world food prices high incomes during times of improved terms of trade and increased urbanization encouraged in part by policies of keeping farm prices low and concentrating government social spending in urban areas Countries that have adopted and sustained policies to raise farm incentives have had better agricultural performance in the 1980 s on average than those where policies continue to discriminate against agriculture *African Farmers, Value Chains and Agricultural Development* Alan de Brauw, Erwin Bulte, 2021-11-02 This book provides a thorough introduction to and examination of agricultural value chains in Sub Saharan Africa First the authors introduce the economic theory of agri food value chains and value chain governance focusing on

domestic and regional trade in and consumption of food crops in a low income country context In addition to mainstream and heterodox thinking about value chain development the book pays attention to political economy considerations The book also reviews the empirical evidence on value chain development and performance in Africa It adopts multiple lenses to examine agricultural value chains zooming out from the micro level e g relational contracting in a context of market imperfections to the meso level e g distributional implications of various value chain interventions inclusion of specific social groups and the macro level underlying income population and urbanization trends volumes and prices etc Furthermore this book places value chain development in the context of a process the authors refer to as structural transformation 2 0 which refers to a process where production factors labor land and capital move from low productivity agriculture to high productivity agriculture Finally throughout the book the authors interpret the evidence in light of three important debates i how competitive are rural factor and product markets and what does this imply for distribution and innovation ii what role do foreign investment and factor proportions play in the development of agri food value chains in Africa iii what complementary government policies can help facilitate a process of agricultural value chain transformation towards high productive activities and enhancing the capacity of value chains to generate employment opportunities and food security for a growing population

Agriculture in Africa Luc Christiaensen, Lionel Demery, 2017-10-25 Stylized facts set agendas and shape debates In rapidly changing and data scarce environments they also risk being ill informed outdated and misleading So following higher food prices since the 2008 world food crisis robust economic growth and rapid urbanization and climatic change is conventional wisdom about African agriculture and rural livelihoods still accurate Or is it more akin to myth than fact The essays in *Agriculture in Africa Telling Myths from Facts* aim to set the record straight They exploit newly gathered nationally representative geo referenced information at the household and plot level from six African countries In these new Living Standard Measurement Study Integrated Surveys on Agriculture every aspect of farming and non farming life is queried from the plots farmers cultivate the crops they grow the harvest that is achieved and the inputs they use to all the other sources of income they rely on and the risks they face Together the surveys cover more than 40 percent of the Sub Saharan African population In all sixteen conventional wisdoms are examined relating to four themes the extent of farmer s engagement in input factor and product markets the role of off farm activities the technology and farming systems used and the risk environment farmers face Some striking surprises in true myth busting fashion emerge And a number of new issues are also thrown up The studies bring a more refined empirically grounded understanding of the complex reality of African agriculture They also confirm that investing in regular nationally representative data collection yields high social returns **Progress in African Agriculture** David C. Catt, 1970 **Impact of Science on African Agriculture and Food Security** P.

Anandajayasekeram, M. Rukani, S. Babu, 2007 The need for agricultural research resources in the developing world cannot be underestimated but the availability of such resources is often poor due to lack of funding and investment In order for Africa

and other such developing countries to achieve productivity in agriculture vital to food security poverty reduction and sustainable management of natural resources investment and policy development needs to be assessed This book a joint effort from IFPRI ILRI and the Kellogg Foundation explores the importance of impact assessment studies in Africa and assembles important evidence to pave the way for further much needed investment in agricultural research all over the developing world

Economics of Agricultural Development in Tropical Africa Seth La-Anyane,1985 Economic analysis of agricultural development in Africa South of Sahara examines administrative aspects technical aspects institutional framework and economic implications of rural development and modernization in tropical zones studies economic conditions and agrarian structure farm size farming system land tenure etc discusses the contribution of regional level economic cooperation regional organizations the role of EC countries development aid and multinational enterprises Bibliography graphs references statistical tables

Reaping Richer Returns Aparajita Goyal,John Nash,2017-03-10 Enhancing the productivity of agriculture is vital for Sub Saharan Africa s economic future and is one of the most important tools to end extreme poverty and boost shared prosperity in the region How governments elect to spend public resources has significant development impact in this regard Choosing to catalyze a shift toward more effective efficient and climate resilient public spending in agriculture can accelerate change and unleash growth Not only does agricultural public spending in Sub Saharan Africa lag behind other developing regions but its impact is vitiated by subsidy programs and transfers that tend to benefit elites to the detriment of poor people and the agricultural sector itself Shortcomings in the budgeting processes also reduce spending effectiveness In light of this scenario addressing the quality of public spending and the efficiency of resource use becomes even more important than addressing only the level of spending Improvements in the policy environment better institutions and investments in rural public goods positively affect agricultural productivity These combined with smarter use of public funds have helped lay the foundations for agricultural productivity growth around the world resulting in a wealth of important lessons from which African policy makers and development practitioners can draw

Reaping Richer Returns Public Spending Priorities for African Agriculture Productivity Growth will be of particular interest to policy makers development practitioners and academics The rigorous analysis presented in this book provides options for reform with a view to boosting the productivity of African agriculture and eventually increasing development impact

Agricultural Development in China and Africa Xiaoyun Li,2012 First Published in 2011 Routledge is an imprint of Taylor Francis an informa company

The Economics of African Agriculture in Southern Rhodesia R. W. M. Johnson,1967

The African Economy Steve Kayizzi-Mugerwa,2002-01-04 This book offers an in depth analysis of the current state of the African economy and makes constructive suggestions about its future direction The contributors argue that despite enduring challenges such as food security and employment creation Africa faces a brighter future in sustainable growth provided that governance and policy making are effectively employed to maintain peace achieve greater regional collaboration and

encourage private sector competitiveness The Political Economy of West African Agriculture Keith Hart, 1982-05-31 West Africa's agriculture has for 150 years been heavily geared toward export yet the region is one of the world's poorest Keith Hart examines this question focusing particularly on how this situation has affected the indigenous peoples of West Africa Commerce has grown impressively but productivity remains low and capital accumulation is retarded The reasons exist primarily in internal conditions shaping social institutions Before during and since colonialism the particular problems of these preindustrial states have shaped agricultural development more than the pressure supposedly emanating from the world system of international capitalism This book following the classical economists as well as Marx and Lenin argues for the necessity of rapid capitalist penetration into West African agriculture The book is also a readable introduction to the history and ethnography of the region as a whole **African Agriculture** John Levi, 1976 The origins of agricultural development Food Exports Economics aspects of the structure of land rights Urban growth Developement Concluding comments **The Economics of Tropical Farming Systems** Martin Upton, 1996-12-12 Clear student text on theory and practice of economic decision making in tropical agriculture **African Agriculture and the World Bank** Kjell J. Havnevik, 2007 Publisher's description Challenges for African Agriculture Jean-Claude Devèze, 2011 This book presents the key demographic economic and environmental challenges for agriculture in Africa and proposes courses of action for Africa to be successful in its agricultural transitions **African Agriculture** Commonwealth Action Group on the Economic Crisis in Africa, 1985

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