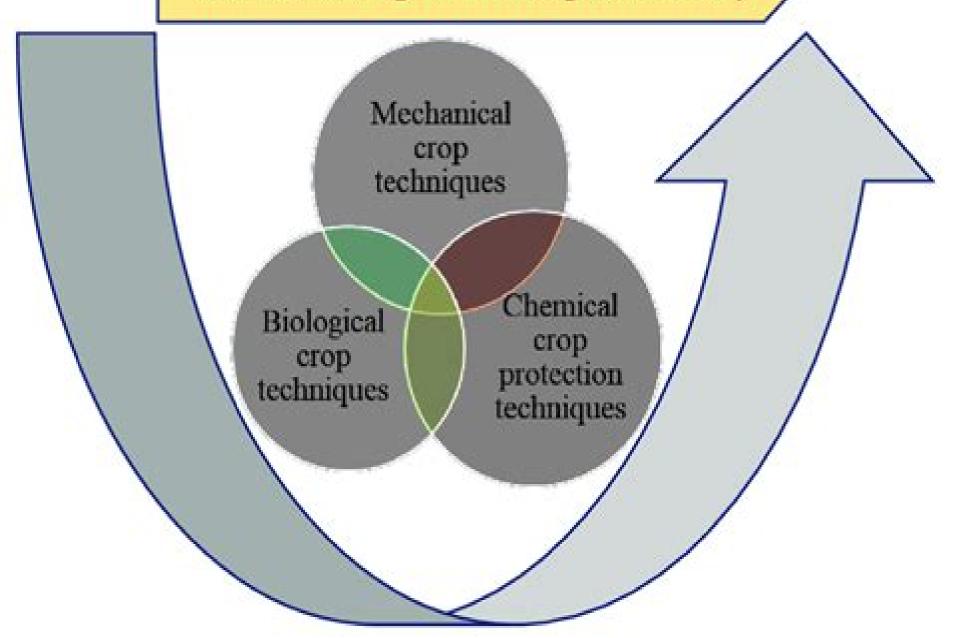
Sustainable agricultural productivity



Agricultural Research And Productivity

M Carnoy

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Agricultural Research and Productivity Robert Edward Evenson, Yoav Kislev, 1975-01-01 Food production problems and prospects Investment in agricultural research and extension a survey International diffusion of technology a case study of sugarcane varieties Research and productivity in wheat and maize an international analysis Aggregate analysis of research and productivity in agriculture Research extension and aggregate agricultural productivity in a major developing country the case of India The process of an innovation cycle A simple model of technological research Economic implications

Agricultural Research and Productivity Robert Eugene Evenson,1975 *Agricultural Research and Productivity* Growth in India Robert Eugene Evenson, Carl Pray, Mark W. Rosegrant, 1998-01-01 Investment in productivity the research system technology transfer extension and infrastructure The development and spread of modern crop varieties Total factor productivity in the indian crop sector Sources for the growth of total factor productivity in indian agriculture Conclusions and policy implications Productivity Growth in Agriculture Keith Owen Fuglie, Sun Ling Wang, V. Eldon Ball, 2012 This volume is written primarily for agricultural economists doing research on productivity It includes discussions of the theoretical underpinnings of productivity measurement as well as the many practical considerations that go into translating this theory into actual measures of aggregated outputs and inputs The unifying concept of agricultural productivity used across the chapters of this volume is aggregate total factor productivity TFP of the sector The volume also contains detailed analysis of the underlying causes of agricultural productivity growth Part I chapters 2 6 examines agricultural productivity in high income and transition countries Part II chapters 7 11 examines agricultural productivity growth and its driving forces in five important agricultural producers in Asia and Latin America Part III chapters 12 14 focuses on measuring and identifying constraints to agricultural productivity growth in sub Saharan Africa Part IV chapters 15 16 gives a global perspective on agricultural productivity Differences in Agricultural Research and Productivity Among 26 Countries George B. Frisvold, United States. Department of Agriculture. Economic Research Service, Eugene Lomax, 1991 **Evaluating** Agricultural Research and Productivity in an Era of Resource Scarcity ,1994 **Persistence Pays** Julian M. Alston, Matthew A. Andersen, Jennifer S. James, Philip G. Pardey, 2009-11-27 gricultural science policy in the United States has profoundly affected the growth and development of agriculture worldwide not just in the A United States Over the past 150 years and especially over the second th half of the 20 Century public investments in agricultural R D in the United States grew faster than the value of agricultural production Public spending on agricultural science grew similarly in other more developed countries and c lectively these efforts along with private spending spurred agricultural prod tivity growth in rich and poor nations alike The value of this investment is seldom fully appreciated The resulting p ductivity improvements have released labor and other resources for alternative uses in 1900 29 2 million Americans 39 percent of the population were rectly engaged in farming compared with just 2 9 million 1 1 percent today while making food and fiber more abundant and

cheaper The benefits are not confined to Americans U S agricultural science has contributed with others to growth in agricultural productivity in many other countries as well as the Un ed States The world's population more than doubled from around 3 billion in 1961 to 6 54 billion in 2006 U S Census Bureau 2009 Over the same period production of important grain crops including maize wheat and rice almost trebled such that global per capita grain production was 18 percent higher in 2006 Productivity Growth in Agriculture K. O. Fugile, 2012 Increasing food prices have renewed concerns about long term agricultural demand and supply in the global economy This book looks at results methods and data on international agricultural productivity for a better understanding of long run trends and the policies that determine them By presenting an international assessment of total factor productivity growth in agriculture including up to date empirical analysis for developed and developing countries and regions it provides a response to the rising global scarcity of agricultural production It is essential reading for researchers poli **Resource Allocation and Productivity in National and International** Agricultural Research Thomas Arndt, Dana Dalrymple, Vernon Ruttan, 1977-02-25 Resource Allocation and Productivity in National and International Agricultural Research was first published in 1977 Agricultural research in developing countries has grown rapidly in recent years As the research system has expanded questions about the productivity of research and the allocation of research resources have become important issues for development planners science managers donor agencies and other individuals and institutions concerned with research operations and opportunities In this volume forty contributors natural and social scientists and research administrators provide a comprehensive analysis of the implications of agricultural science and technology for agricultural development They examine recent evidence on the returns to investment in national and international agricultural research systems and explore the relevance of social and economic factors for the organization and management of these systems In a final section they discuss research strategy and management issues that will affect the future productivity and organization of both the international and the national research systems The material is based on papers given at a conference held at Airlie House Virginia sponsored by the Agricultural Development Council Funding was provided through the U S Agency for International Development USAID support of the Council's Research Training and Evaluating agricultural research and productivity Network Program and by additional assistance from the World Bank ,1987* Agricultural research in Southeast Asia: A cross-country analysis of resource allocation, performance, and impact on productivity Stads, Gert-Jan, Nin-Pratt, Alejandro, Omot, Norah, Thi Pham, Nguyen, 2020-10-26 Southeast Asia made considerable progress in building and strengthening its agricultural R D capacity during 2000 2017 All of the region s countries reported higher numbers of agricultural researchers improvements in their average qualification levels and higher shares of women participating in agricultural R D In contrast regional agricultural research spending remained stagnant despite considerable growth in agricultural output over time As a result Southeast Asia's agricultural research intensity that is agricultural research spending as a share of agricultural GDP steadily declined from 0 50 percent in 2000 to

just 0 33 percent in 2017 Although the extent of underinvestment in agricultural research differs across countries all Southeast Asian countries invested below the levels deemed attainable based on the analysis summarized in this report The region will need to increase its agricultural research investment substantially in order to address future agricultural production challenges more effectively and ensure productivity growth Southeast Asia's least developed agricultural research systems Cambodia Laos and Myanmar are characterized by low scientific output and researcher productivity as a direct consequence of severe underfunding and lack of sufficient well qualified research staff While Malaysia and Thailand have significantly more developed agricultural research systems they still report key inefficiencies and resource constraints that require attention Indonesia the Philippines and Vietnam occupy intermediate positions between these two groups of high and low performing agricultural research systems Growing national economies higher disposable incomes and changing consumption patterns will prompt considerable shifts in levels of agricultural production consumption imports and exports across Southeast Asia over the next 20 to 30 years The resource allocation decisions that governments make today will affect agricultural productivity for decades to come Governments therefore need to ensure the research they undertake is responsive to future challenges and opportunities and aligned with strategic development and agricultural sector plans ASTI s projections reveal that prioritizing investment in staple crops will still trigger fastest agricultural productivity growth in Laos However Indonesia Malaysia and Vietnam could achieve faster growth over the next 30 years by prioritizing investment in research focused on fruit vegetables livestock and aquaculture In Cambodia Myanmar and Thailand the choice between focusing on staple crops versus high value commodities was less pronounced but projections did indicate that prioritizing investments in oil crop research would trigger significantly lower growth in agricultural productivity Agricultural Research and Productivity in Alberta Mary Anderson & Associates, Environment Council of Alberta, 1983

Resource Allocation and Productivity in National and International Agricultural Research Thomas M. Arndt, Vernon W. Ruttan, 1975 *Harvesting Prosperity* Keith Fuglie, Madhur Gautam, Aparajita Goyal, William F. Maloney, 2019-11-05 Back cover blurbRising agricultural productivity has driven improvements in living standards for millennia Today redoubling that effort in developing countries is critical to reducing extreme poverty ensuring food security for an increasing global population and adapting to changes in climate This volume presents fresh analysis on global trends and sources of productivity growth in agriculture and offers new perspectives on the drivers of that growth It argues that gains from the reallocation of land and labor are not as promising as believed so policy needs to focus more on the generation and dissemination of new technologies which requires stepping up national research efforts Yet in many of the poorest nations a serious research spending gap has emerged precisely at the time when the challenges faced by agriculture are intensifying The book focuses on how this problem can be redressed in the public sector as well as on reforms aimed at mobilizing new private sector actors and value chains particularly creating a better enabling environment reforming trade regulations

introducing new products and strengthening intellectual property rights On the demand side the book examines what recent research reveals about policies to reduce the barriers impeding smallholder farmers from adopting new technologies. Harvesting Prosperity is the fourth volume of the World Bank Productivity Project which seeks to bring frontier thinking on the measurement and determinants of productivity to global policy makers As rightly argued by the authors growth in agricultural productivity is the essential instrument to promote development in low income agriculture based countries. Achieving this requires research and development upgrading of universities reinforcement of farmer capacities removal of constraints to adoption and the development of inclusive value chains with interlinked contracts As important such efforts also need to be placed within a context of comprehensive agricultural rural and structural transformations. However in many countries implementation of the requisite policies has been lagging. This book with contributions from many top experts in the field provides the most up to date presentation of this argument and explains in detail how to successfully put its ideas into practice Governments the private sector and civil society organizations need to study it carefully to turn the promise of agriculture for development into a reality Alain de Janvry and Elisabeth Sadoulet Professors of the Graduate School University of California at Berkeley

Agricultural Research & Productivity Measurement Seppo Aaltonen, 1987

Transforming Agricultural Research Systems in Transition Economies Mohinder S. Mudahar, Robert William Jolly, Jitendra Srivastava, 1998-01-01 This report examines the current state of Russian agriculture and agricultural research systems It develops a conceptual framework for managing the transformation and rehabilitation of agricultural research systems in transition economies Chapters examine the strategic importance of agricultural research the status and importance of the agricultural sector the status of the agricultural knowledge system and challenges facing the system as well as ways to transform it This book is aimed toward agricultural scientists research administrators public officials and agricultural leaders interested in the transformation of agricultural research systems in the transition economies Research and Productivity in Asian Agriculture Robert Eugene Evenson, Carl Pray, 1991 **Agricultural Productivity and Environmental Quality** United States. Congress. House. Committee on Science and Technology. Subcommittee on Natural Resources and Environment, 1980 Agricultural Science Policy Julian M. Alston, Philip G. Pardey, Michael J. Taylor, 2001-01-01 Agricultural research and development have profoundly increased the quantity and quality of food production in the twentieth century As populations increase however and land and water resources become more scarce we must improve productivity and efficiency to provide adequate food supplies Issues such as the environment genetic diversity food safety poverty human health animal rights public versus private responsibilities and the question of intellectual property rights further complicate this task Agricultural Science Policy Changing Global Agendas consists of twelve chapters that describe important issues in agricultural science policy the relevant facts current economic thinking and new results Topics Include Changing Global Contexts and Agendas for Agricultural R Productivity Measures and Measurement Research Productivity and Natural

Resources Research for Genetic Improvement and a Conclusion which suggests directions for the future The chapters in this volume will provide researchers and policy makers with a timely review of progress on the existing agenda as well as laying the foundation for a new agenda and new directions for global agricultural science policy in the 21st century Contributors Julian M Alston University of California Davis Walter J Armbruster President of the Farm Foundation Peter J Barry University of Illinois Wilfred Beckerman University of Oxford Derek Byerlee World Bank Barbara J Craig Oberlin College Robert Evenson Yale University Richard Gray University of Saskatchewan Zvi Griliches Harvard University Paul W Heisey U S Department of Agriculture Frances Homans University of Minnesota Peter Lindert University of California Davis Stavroula Malla University of Saskatchewan Philip G Pardey International Food Policy Research Institute and University of Minnesota Prabhu L Pingali International Maize and Wheat Improvement Center Ismail Serageldin World Bank and the American University in Cairo Michael J Taylor Department of Agriculture Fisheries and Forestry Australia Greg Traxler Auburn University James Wilen University of California Davis Brian Wright University of California Berkeley Published in cooperation with the International Food Policy Research Institute Agricultural Productivity in the United States ,1998

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