

AGRICULTURE GRADE 10 NOTES

Livestock Production Selection and Breeding

Introduction

- The breeding of animals is under human control, and the breeders decide which individuals shall produce the next generation.
- The breeder makes a choice.
- The breeding of animals is based upon the fact that certain qualities are genetic; hence valuable qualities are passed on from parents to off-springs.
- The qualities can be maintained or improved in the next generation.

The performance of an animal is influenced by two major factors;

- Genetic potential
- The environment, which includes:
 - Feeding,
 - Health,
 - Care
 - The ecological conditions.
- The genetic potential of an animal is inherited from its parents.
- In selection and breeding animals with superior characteristics are selected and allowed to mate.
- In the process they transmit the superior characteristics to their offspring.
- When this is done over a long period of time, it results in livestock improvement.

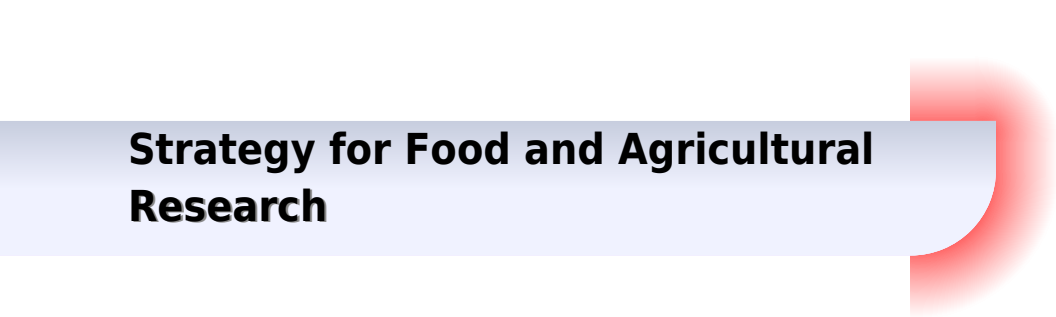
Reproduction and Reproductive Systems

- Reproduction is the process by which off-springs are produced.
- All farm animals multiply by means of sexual reproduction.
- It begins with fertilization which is the fusion of male and female gametes to form a zygote.
- Fertilization takes place internally in the body of the female.
- The embryo(zygote) formed develops inside body of mother, fed and protected until end of gestation period.
- In poultry, the process is different in that eggs are fertilized internally but laid and development of the chick takes place outside during incubation.
- In both male and female, certain organs are specialized for the process of reproduction.
- Some of these organs secrete fluids which are necessary for the movement and survival of the gametes (reproductive cells.)

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Strategy for Food and Agricultural Research



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Farmers' Guide ,1902 *Principles of Agricultural Economics* Andrew Barkley,Paul W. Barkley,2013-03-05 This book showcases the power of economic principles to explain and predict issues and current events in the food agricultural agribusiness international trade natural resources and other sectors The result is an agricultural economics textbook that provides students and instructors with a clear up to date and straightforward approach to learning how a market based economy functions and how to use simple economic principles for improved decision making While the primary focus of the book is on microeconomic aspects agricultural economics has expanded over recent decades to include issues of macroeconomics international trade agribusiness environmental economics natural resources and international development Hence these topics are also provided with significant coverage Good Agricultural Practices for Greenhouse Vegetable Crops ,2013 This publication capitalizes on the experience of scientists from the North Africa and Near East countries in collaboration with experts from around the world specialized in the different aspects of greenhouse crop production It provides a comprehensive description and assessment of the greenhouse production practices in use in Mediterranean climate areas that have helped diversify vegetable production and increase productivity The publication is also meant to be used as a reference and tool for trainers and growers as well as other actors in the greenhouse vegetables value chain in this region **Statistical Procedures for Agricultural Research** Kwanchai A. Gomez,Arturo A. Gomez,1984-02-17 Here in one easy to understand volume are the statistical procedures and techniques the agricultural researcher needs to know in order to design implement analyze and interpret the results of most experiments with crops Designed specifically for the non statistician this valuable guide focuses on the practical problems of the field researcher Throughout it emphasizes the use of statistics as a tool of research one that will help pinpoint research problems and select remedial measures Whenever possible mathematical formulations and statistical jargon are avoided Originally published by the International Rice Research Institute this widely respected guide has been totally updated and much expanded in this Second Edition It now features new chapters on the analysis of multi observation data and experiments conducted over time and space Also included is a chapter on experiments in farmers fields a subject of major concern in developing countries where agricultural research is commonly conducted outside experiment stations *Statistical Procedures for Agricultural Research* Second Edition will prove equally useful to students and professional researchers in all agricultural and biological disciplines A wealth of examples of actual experiments help readers to choose the statistical method best suited for their needs and enable even the most complicated procedures to be easily understood and directly applied An International Rice Research Institute Book **Tackling Climate Change Through Livestock** Food and Agriculture Organization of the United Nations,2013 Greenhouse gas emissions by the livestock sector could be cut by as much as 30 percent through the wider use of existing best practices and technologies

FAO conducted a detailed analysis of GHG emissions at multiple stages of various livestock supply chains including the production and transport of animal feed on farm energy use emissions from animal digestion and manure decay as well as the post slaughter transport refrigeration and packaging of animal products This report represents the most comprehensive estimate made to date of livestock's contribution to global warming as well as the sectors potential to help tackle the problem This publication is aimed at professionals in food and agriculture as well as policy makers

Critical Role of Animal Science Research in Food Security and Sustainability National Research Council, Division on Earth and Life Sciences, Board on Agriculture and Natural Resources, Policy and Global Affairs, Science and Technology for Sustainability Program, Committee on Considerations for the Future of Animal Science Research, 2015-03-31 By 2050 the world's population is projected to grow by one third reaching between 9 and 10 billion With globalization and expected growth in global affluence a substantial increase in per capita meat dairy and fish consumption is also anticipated The demand for calories from animal products will nearly double highlighting the critical importance of the world's animal agriculture system Meeting the nutritional needs of this population and its demand for animal products will require a significant investment of resources as well as policy changes that are supportive of agricultural production Ensuring sustainable agricultural growth will be essential to addressing this global challenge to food security

Critical Role of Animal Science Research in Food Security and Sustainability identifies areas of research and development technology and resource needs for research in the field of animal agriculture both nationally and internationally This report assesses the global demand for products of animal origin in 2050 within the framework of ensuring global food security evaluates how climate change and natural resource constraints may impact the ability to meet future global demand for animal products in sustainable production systems and identifies factors that may impact the ability of the United States to meet demand for animal products including the need for trained human capital product safety and quality and effective communication and adoption of new knowledge information and technologies The agricultural sector worldwide faces numerous daunting challenges that will require innovations new technologies and new ways of approaching agriculture if the food feed and fiber needs of the global population are to be met The recommendations of **Critical Role of Animal Science Research in Food Security and Sustainability** will inform a new roadmap for animal science research to meet the challenges of sustainable animal production in the 21st century

A *Textbook of Agronomy* B. Chandrasekaran, 2010 **Comfort**, 1916 **The Agricultural Gazette and Modern Farming**, 1895

Edible Insects Arnold van Huis, Food and Agriculture Organization of the United Nations, 2013 Edible insects have always been a part of human diets but in some societies there remains a degree of disdain and disgust for their consumption Although the majority of consumed insects are gathered in forest habitats mass rearing systems are being developed in many countries Insects offer a significant opportunity to merge traditional knowledge and modern science to improve human food security worldwide This publication describes the contribution of insects to food security and examines future prospects for

raising insects at a commercial scale to improve food and feed production diversify diets and support livelihoods in both developing and developed countries It shows the many traditional and potential new uses of insects for direct human consumption and the opportunities for and constraints to farming them for food and feed It examines the body of research on issues such as insect nutrition and food safety the use of insects as animal feed and the processing and preservation of insects and their products It highlights the need to develop a regulatory framework to govern the use of insects for food security And it presents case studies and examples from around the world Edible insects are a promising alternative to the conventional production of meat either for direct human consumption or for indirect use as feedstock To fully realise this potential much work needs to be done by a wide range of stakeholders This publication will boost awareness of the many valuable roles that insects play in sustaining nature and human life and it will stimulate debate on the expansion of the use of insects as food and feed

Rice Almanac, 4th edition J. Maclean, B. Hardy, G. Hettel, 2013-12-01 This fourth edition of the Rice Almanac continues the tradition of the first three editions by showcasing rice as the most important staple food in the world and all that is involved in maintaining rice production It also breaks new ground in its coverage of issues related to rice production both environmental including climate change and its importance for food security and the global economy It also further expands coverage of the world's rice production area by featuring 80 rice producing countries around the world

Composition of Foods Dennis L. Drake, 1989

Postharvest Handling Nigel H. Banks, Wojciech J. Florkowski, Stanley E. Prussia, Robert L. Shewfelt, Bernhard Brueckner, 2009-02-21 Consideration of the interactions between decisions made at one point in the supply chain and its effects on the subsequent stages is the core concept of a systems approach Postharvest Handling is unique in its application of this systems approach to the handling of fruits and vegetables exploring multiple aspects of this important process through chapters written by experts from a variety of backgrounds Newly updated and revised this second edition includes coverage of the logistics of fresh produce from multiple perspectives postharvest handling under varying weather conditions quality control changes in consumer eating habits and other factors key to successful postharvest handling The ideal book for understanding the economic as well as physical impacts of postharvest handling decisions Key Features Features contributions from leading experts providing a variety of perspectives Updated with 12 new chapters Focuses on application based information for practical implementation System approach is unique in the handling of fruits and vegetables

Climate-smart Agriculture Sourcebook Food and Agriculture Organization (FAO), 2014 Climate smart agriculture forestry and fisheries CSA contributes to the achievement of sustainable development goals It integrates the three dimensions of sustainable development economic social and environmental by jointly addressing food security and climate challenges It is composed of three main pillars sustainably increasing agricultural productivity and incomes adapting and building resilience to climate change reducing and or removing greenhouse gases emissions where possible The purpose of the sourcebook is to further elaborate the concept of CSA and demonstrate its potential as well as

limitations It aims to help decision makers at a number of levels including political administrators and natural resource managers to understand the different options that are available for planning policies and investments and the practices that are suitable for making different agricultural sectors landscapes and food systems more climate smart This sourcebook is a reference tool for planners practitioners and policy makers working in agriculture forestry and fisheries at national and subnational levels Back cover **California Agriculture** ,2012 Science Breakthroughs to Advance Food and Agricultural Research by 2030 National Academies of Sciences, Engineering, and Medicine,Division of Behavioral and Social Sciences and Education,Board on Environmental Change and Society,Health and Medicine Division,Food and Nutrition Board,Division on Earth and Life Studies,Water Science and Technology Board,Board on Life Sciences,Board on Atmospheric Sciences and Climate,Board on Agriculture and Natural Resources,Committee on Science Breakthroughs 2030: A Strategy for Food and Agricultural Research,2019-04-21 For nearly a century scientific advances have fueled progress in U S agriculture to enable American producers to deliver safe and abundant food domestically and provide a trade surplus in bulk and high value agricultural commodities and foods Today the U S food and agricultural enterprise faces formidable challenges that will test its long term sustainability competitiveness and resilience On its current path future productivity in the U S agricultural system is likely to come with trade offs The success of agriculture is tied to natural systems and these systems are showing signs of stress even more so with the change in climate More than a third of the food produced is unconsumed an unacceptable loss of food and nutrients at a time of heightened global food demand Increased food animal production to meet greater demand will generate more greenhouse gas emissions and excess animal waste The U S food supply is generally secure but is not immune to the costly and deadly shocks of continuing outbreaks of food borne illness or to the constant threat of pests and pathogens to crops livestock and poultry U S farmers and producers are at the front lines and will need more tools to manage the pressures they face Science Breakthroughs to Advance Food and Agricultural Research by 2030 identifies innovative emerging scientific advances for making the U S food and agricultural system more efficient resilient and sustainable This report explores the availability of relatively new scientific developments across all disciplines that could accelerate progress toward these goals It identifies the most promising scientific breakthroughs that could have the greatest positive impact on food and agriculture and that are possible to achieve in the next decade by 2030

Fundamentals of Rice Crop Science Shouichi Yoshida,1981 Growth and development of the rice plant Climatic environments and its influence Mineral nutrition of rice Nutritional disorders Photosynthesis and respiration Rice plant characters in relation to yielding ability Physiological analysis of rice yield **Food Wastage Footprint** ,2013 This study provides a worldwide account of the environmental footprint of food wastage along the food supply chain focusing on impacts on climate water land and biodiversity as well as economic quantification based on producer prices Introduction Soil pollution: a hidden reality Food and Agriculture Organization of the United Nations,2018-04-30 This document presents key

messages and the state of the art of soil pollution its implications on food safety and human health It aims to set the basis for further discussion during the forthcoming Global Symposium on Soil Pollution GSOP18 to be held at FAO HQ from May 2nd to 4th 2018 The publication has been reviewed by the Intergovernmental Technical Panel on Soil ITPS and contributing authors It addresses scientific evidences on soil pollution and highlights the need to assess the extent of soil pollution globally in order to achieve food safety and sustainable development This is linked to FAO s strategic objectives especially SO1 SO2 SO4 and SO5 because of the crucial role of soils to ensure effective nutrient cycling to produce nutritious and safe food reduce atmospheric CO2 and N2O concentrations and thus mitigate climate change develop sustainable soil management practices that enhance agricultural resilience to extreme climate events by reducing soil degradation processes This document will be a reference material for those interested in learning more about sources and effects of soil pollution

Principles of Environmental Physics John Monteith, M. H. Unsworth, 1990-02-15 Thoroughly revised and up dated edition of a highly successful textbook

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