

FAO ANIMAL PRODUCTION AND HEALTH



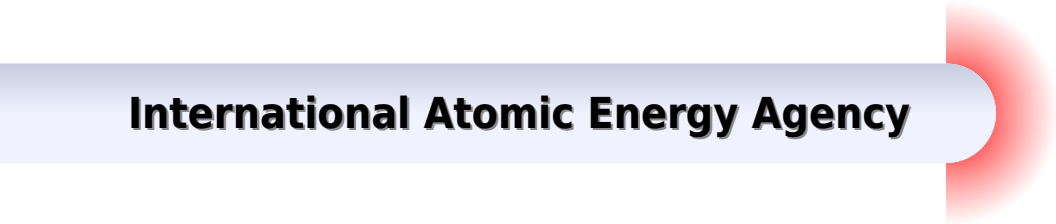
THE FEED ANALYSIS LABORATORY: ESTABLISHMENT AND QUALITY CONTROL

Setting up a feed analysis laboratory, and
implementing a quality assurance system
compliant with ISO/IEC 17025:2005



The Feed Analysis Laboratory Establishment And Quality Control Setting Up A Feed Analysis Laboratory And Implementing A Quality Assurance System Fao Animal Production And Health Guidelines

International Atomic Energy Agency



The Feed Analysis Laboratory Establishment And Quality Control Setting Up A Feed Analysis Laboratory And Implementing A Quality Assurance System Fao Animal Production And Health Guidelines:

The Feed Analysis Laboratory L. H. de Jonge, F. S. Jackson, 2013 Animal feed impacts almost all sectors and services of the livestock sector This document presents a step wise process to guide the Laboratory Management starting from planning a feed analysis laboratory building and layout to hiring suitable staff choosing which methods to set up with appropriate equipment requirements This document will enable Member States to establish accredited laboratories and also help prepare the existing ones for the accreditation Quality of data on chemical composition and nutritive value will improve resulting in preparation of safe and quality animal diets imperative for increased sustainable livestock production **East Africa**

Animal Feed Action Plan Food and Agriculture Organization of the United Nations, Intergovernmental Authority on Development, 2019-09-10 The regional animal feed action plan was formulated through a consultative and participatory process building on experiences and lessons learnt by wide spectrum of key stakeholders in public and private sectors notably policy makers traders pastoralist and farmers organizations civil society NGOs and the development partners It builds on the earlier consultative experience sharing workshop on feed by USAID ILRI IGAD and FAO in the region The plan provides broad opportunities for partnerships with producers governments and private sector development and humanitarian organizations at the national and regional levels It provides a guided approach to collectively tackle the problems of animal feed and pave the way for sustainable production of quality animals and products while improving competitiveness profitability and ensuring sustainable feed resource management for the entire Eastern African region The aim of the action plan is to provide guidelines to communities countries private sector and livestock stakeholders to optimally utilize the available feed resources in East Africa to increase the supply as well as improve the quality of animals products and by products and to maximize the economic and social benefits of the livestock sector *Developing field epidemiology training*

for veterinarians Food and Agriculture Organization of the United Nations, 2021-11-29 Epidemiology workforce capacity development is a key part of strengthening Animal Health Systems The aim of a field epidemiology training programme is to improve the institutional capacity to detect prevent control and manage animal diseases that negatively impact animal and human health farmers livelihoods food security and trade These guidelines provide an eight step approach to develop competency based training programmes from assessment of the needs and readiness of a country or region to developing planning implementing and monitoring and assessment of the impact of field epidemiology training programs A set of core competencies developed by a participative and inclusive process for frontline and intermediate levels are provided to guide the development of curriculum and strategic plans to better achieve field epidemiology training programme sustainability These guidelines should assist in addressing the veterinary services and animal health systems needs and priorities including field epidemiology workforce capacity development **Guidelines for sustainable tick control and acaricide resistance**

management in livestock Food and Agriculture Organization of the United Nations, 2025-05-23 These guidelines offer a comprehensive resource for managing tick control and tackling acaricide resistance in livestock They emphasize the growing problem of acaricide resistance which has been observed in various regions The document provides in depth information on tick biology available synthetic chemical controls and the underlying mechanisms of acaricide resistance It stresses the importance of continuously monitoring tick populations and resistance levels to inform more effective control strategies To address this resistance the guidelines recommend Integrated Tick Management ITM a holistic approach that integrates chemical treatments with non chemical methods This strategy aims to reduce acaricide use helping to slow resistance development and minimize potential environmental and public health risks Additionally the guidelines highlight the necessity of strong regulatory frameworks to ensure the quality safety and effectiveness of tick control products In conclusion these guidelines deliver a thorough overview of the challenges and strategies related to tick control and acaricide resistance advocating for sustainable practices and ongoing research to improve livestock health and productivity while reducing the risks posed by tick infestations and the diseases they transmit

Practical surveillance guidelines for the progressive control of foot-and-mouth disease and other transboundary animal diseases Metwally, S.; Drewe, J.A.; Ferrari, G.; Gonzales, J.L.; McLaws, M.; Salman, M.; Wagner, B. , 2024-09-20 Progressive control pathways provide a stepwise measurable approach to disease control and potentially eradication Surveillance systems must be capable of providing useful information to document programme progress assessing intervention efforts and the achievement of interim outcomes This document demonstrates a practical surveillance approach that progresses from measuring broad disease epidemiology and risk factors to specifically evaluating intervention options and documenting low disease prevalence The process focusses on aligning practical surveillance components with disease programme outcomes while focusing on foot and mouth disease as an example

Carcass management guidelines Miller, L.P., Miknis, R.A. and Flory, G.A., 2020-12-28 Animal disease outbreaks pose many challenges for response authorities that can impact livelihoods food security and the environment Proper disposal of animal carcasses that die or are culled during the outbreak is a key component of a successful response to a disease outbreak because it helps prevent or mitigate the further spread of pathogens and in case of zoonotic disease to further protect human health The practical guidelines presented hereby provide carcass and related waste management considerations and recommended procedures for use by Veterinary Services and other official response authorities when developing animal disease outbreak containment and eradication plans The guidelines apply to animal disease outbreaks of varying sizes whether the outbreak is isolated to a single premise or spans a region to cover numerous premises However they are focused on small to medium sized holdings in countries without access to engineered landfills rendering plants or controlled incinerators The guidelines are written in the spirit of keep it simple and doable considering the limited human and financial resources that many countries are constrained with Its presentation and practical approach ensure that

countries will find it very useful for their emergency operation procedures toolbox Further the guidelines directly contribute to the one health approach by protecting the health of animals humans and the environment

Responsible use of antimicrobials in beekeeping Food and Agriculture Organization of the United Nations,2021-10-13 These guidelines focus on responsible use of antimicrobials in sustainable apiculture Following a one health approach they aim to protect not only honey bees but even human health e g reducing the risks of residues in hive products and preventing development of antimicrobial resistance and the environment The best way to reach this goal is to prevent and to guarantee the early detection of clinical cases of the main honey bee diseases through the application of good beekeeping practices and biosecurity measures And when medicines are needed for the honey bees specific indication is provided to reduce their impact choosing medicines with a low environmental impact using them timely prudently and following the due instructions It is imperative to apply only those active ingredients that are registered for the honey bees and that are ideally prescribed by a veterinarian Antibiotics should always be avoided as much as possible to reduce risks of residues in hive products and to prevent risks of antimicrobial resistance Prudent and limited use of antimicrobials in beekeeping benefits the quality of bee products and the safety of surrounding ecosystems while also slowing development of antimicrobial resistance which is a widespread issue affecting multiple sectors Finally in this document for the first time a progressive management pathway PMP has been devised for honey bees as well as surveys were created to assess current beekeeping practices and general awareness of topical issues such as AMR The overall aim of these guidelines is to provide information of current challenges within the sector and orientate towards sustainable production and honey bee colony health

Good beekeeping practices for sustainable apiculture Food and Agriculture Organization of the United Nations,Apimondia,Chinese Academy of Agricultural Sciences,Istituto Zooprofilattico Sperimentale Lazio e Toscana,2021-09-21 Bees provide a critical link in the maintenance of ecosystems pollination They play a major role in maintaining biodiversity ensuring the survival of many plants enhancing forest regeneration providing sustainability and adaptation to climate change and improving the quality and quantity of agricultural production systems In fact close to 75 percent of the world s crops that produce fruits and seeds for human consumption depend at least in part on pollinators for sustained production yield and quality Beekeeping also called apiculture refers to all activities concerned with the practical management of social bee species These guidelines aim to provide useful information and suggestions for a sustainable management of bees around the world which can then be applied to project development and implementation

Innovations in cryoconservation of animal genetic resources Food and Agriculture Organization of the United Nations,Boes, J,Boettcher, P,Honkatukia, M,2023-01-17 The livestock sector faces a range of challenges including climate change emerging diseases competition for natural resources and evolving demand for animal source foods which is increasing globally especially in developing countries Genetic diversity of livestock is a key resource for allowing livestock keepers to address these challenges but this diversity has been in a state of decline

The diminishing genetic diversity thus represents yet another obstacle for sustainable livestock production. Cryoconservation, i.e. ex situ in vitro conservation of genetic resources through gene banking, provides one of the most powerful tools. Governments and other stakeholders have to manage genetic diversity in both the short and long term and thereby provide future generations with the tools to meet the challenges ahead. Gene banking of genetic resources fits within the context of the Global Plan of Action for Animal Genetic Resources, which was developed and adopted by FAO Member Nations. Specifically, Strategic Priority 9 of the Global Plan of Action is to establish or strengthen ex situ conservation programmes, and Strategic Priority 11 urges countries to develop approaches and technical standards for conservation. To assist countries in the implementation of the Global Plan of Action, FAO worked with experts from around the world to prepare technical guidelines. In 2012, FAO published *FAO Guidelines on Cryoconservation of animal genetic resources*. Gene banking is a long-term effort that needs to be viewed in terms of decades rather than years, as demonstrated by similar systems for agricultural crops. The responsibility for establishing such resources lies squarely within governments' roles of providing public goods and food security. Gene banking of animal genetic resources is a technology-intensive undertaking, and the associated technologies are in a continual state of research and development. The livestock sector also continues to evolve rapidly. Since the development and release of the previous guidelines, numerous changes have taken place. Critical among these is a greater appreciation of the opportunities for actively utilizing cryopreserved material to enhance management of in vivo populations rather than as simply an insurance policy to protect breeds against extinction. This key development has led to further changes in gene bank management. First, interaction with users of the stored material has increased. This in turn has created a need to involve stakeholders more closely in the management of genetic collections and to better monitor and document the processes of gene banking to ensure quality management.

Genomic characterization of animal genetic resources

Food and Agriculture Organization of the United Nations, Ajmone-Marsan, P., Boettcher, P. J., Ginja, C., Kantanen, J., Lenstra, J. A., 2023-01-12. Molecular biotechnologies have developed rapidly and substantially since the release of these previous guidelines. The livestock sector has been an active participant in the so-called genomic revolution. Advancements in the sequencing of genomes and related genotyping methods have created opportunities for gathering much more information on the molecular level than ever possible at a faster rate and for exponentially decreased costs. Scientists and other livestock stakeholders in countries with highly developed economies have been among the main beneficiaries of this revolution. However, the greatly decreased costs of genomic applications have also created opportunities in countries with developing and transitional economies. In many instances, the lack of awareness of these opportunities and the technical capacity for the full application of genomic tools may represent a greater obstacle to their utilization than the expenses involved. The development of these guidelines and the subsequent application of the information contained herein may help to bridge this gap, bringing new opportunities to light and transferring knowledge that can be used to increase the genetic characterization

of AnGR and subsequently improve the sustainable use and conservation of livestock genetic diversity *Recommendations for the surveillance of influenza A(H5N1) in cattle* El Masry, I.; Delgado, A.H.; Silva, G.O.D.; Dhingra, M.; Lyons, N.A.,2024-11-27 As influenza A H5N1 of clade 2.3.4.4b continues to spread from wild birds to poultry and to both terrestrial and marine mammals the recent cases in cattle highlight the critical importance of being prepared for and responding rapidly to spillover events and of planning for early detection and response at the country level especially in countries of low and middle income These recommendations from the Food and Agriculture Organization of the United Nations FAO aim to support countries in enhancing influenza A H5N1 surveillance in cattle populations with broader application to other farmed mammals to inform risk assessment and evidence based disease control measures Integrated surveillance strategies can leverage existing programmes for avian influenza and other cattle diseases enabling countries to enhance monitoring capabilities while maintaining cost efficiency With regard to preparing effectively FAO recommends a combination of different surveillance methods including risk based surveillance strategies tailored to individual country contexts Adopting these recommendations will strengthen early detection efforts support evidence based decision making and help implement targeted risk mitigation measures to protect both livestock and public health The Stationery Office Agency Catalogue 2016 The Stationery Office,2017-05-17 The Stationery Office Agency Catalogue 2016 *The Agency's Programme and Budget for International Atomic Energy Agency*,2006 **The Agency's Budget Update for ...** International Atomic Energy Agency,2006 **The Agency's Programme and Budget for ... and Budget for ...** International Atomic Energy Agency,2001 **The Agency's Draft Programme and Budget for ...** International Atomic Energy Agency,2006

QUALITY ASSURANCE FOR ANIMAL FEED ANALYSIS LABORATORIES Food and Agriculture Organization of the United Nations,2018-09-27 Every sector of the livestock industry the associated services and the wellbeing of both animals and humans are influenced by animal feeding The availability of accurate reliable and reproducible analytical data is imperative for proper feed formulation Only reliable analysis can lead to the generation of sound scientific data This document gives a comprehensive account of good laboratory practices quality assurance procedures and examples of standard operating procedures as used in individual specialist laboratories The adoption of these practices and procedures will assist laboratories in acquiring the recognition of competence required for certification or accreditation and will also enhance the quality of the data reported by feed analysis laboratories In addition ensuring good laboratory practices presented in the document will enhance the safety of the laboratory workers The document will be useful for laboratory analysts laboratory managers research students and teachers and it is hoped that it will enable workers in animal industry including the aquaculture industry to appreciate the importance of proven reliable data and the associated quality assurance approaches An additional effect of implementing and adopting these approaches will be strengthening of the research and education capabilities of students graduating from R D institutions and promotion of a better trading environment between

developing and developed economies This will have long term benefits and will promote investment in both feed industries and R D institutions

Quality Assurance for Microbiology in Feed Analysis Laboratories Richard A. Cowie,2013 The adoption of the practices and procedures in the manual will assist microbiology laboratories in acquiring the recognition of competence required for certification or accreditation and will also enhance the quality of the microbiological data generated by feed analysis laboratories In addition ensuring good laboratory practices presented in the document will enhance the health and safety of the laboratory workers protect the environment from laboratory discharged pollutants and increase the efficiency of laboratories The document will also provide a strong base for microbiology laboratories on which they can develop a system which will meet the requirements of international standards

Good practices for the feed sector Food and Agriculture Organization of the United Nations ,International Feed Industry Federation,2020-11-23 This manual provides comprehensive information and practical guidelines to assist farmers producers and all stakeholders along the feed value chain to comply with the requirements of the Codex Alimentarius Code of Practice on Good Animal Feeding The application of the Code is an important step for the expansion of international trade of feed and products of animal origin Both feed food exporting and importing countries can benefit from a greater and safer trade of feed and products of animal origins This manual is intended to guide managers of feedmills the feed industry as a whole and on farm feed mixers and producers It will also be of value to national competent authorities in particular those engaged in feed inspection in their supervisory roles It can also serve as a training manual and a guide to setting up national feed associations

Quality in the Food Analysis Laboratory Roger Wood,Harriet Wallin,Anders Nilsson,2007-10-31 Fit for purpose is a phrase familiar to all users of analytical data who need to be assured that data provided by laboratories is both appropriate and of the required quality Quality in the Food Analysis Laboratory surveys the procedures that a food analysis laboratory must consider to meet such requirements The need to introduce quality assurance the different quality models that are available and the legislative requirements are considered Specific aspects of laboratory practice and particular areas of accreditation which may cause problems for analytical laboratories are also discussed Covering for the first time those areas of direct importance to food analysis laboratories this unique book will serve as an aid to those laboratories when introducing new measures and justifying those chosen

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