



IFIF STDF Project 56



PROJECT REPORT:

Capacity Building for the Implementation of the Codex Alimentarius Code of Practice for Animal Feeding

Carried out by the International Feed Industry Federation in collaboration with National and Regional Feed Industry Associations of Brazil, China, Turkey, South Africa, Thailand, Kenya and India and working with the WTO Standards and Trade Development Facility (STDF) partner institution of FAO Animal Production and Health Division, Rome, Italy

This Project has resulted in the development of an important publication and resource document for use by all feed manufacturers in all countries: an annotated Manual of Good Practice for Animal Feeding together with additional guidelines. It will provide - when published and distributed to the feed industry globally - practical support information and guidance for the implementation of the Codex Code of Practice on Good Animal Feeding everywhere. In addition, the Project has been instrumental in raising the awareness of the Codex Code through a number of workshops both in emerging and developing countries and has also led to the further co-ordination and development of the feed industry association base and the feed industry network that involves key personnel in government, livestock production specialists - including those at universities and institutions - based on safe feed production, GAP, GMP and HACCP for the long-term development and sustainability of the feed and livestock industries.

Project Background

The intensification of livestock production and the increasing trade in raw materials for the feed industry, as well as in livestock products, demand greater attention to risk management by all stakeholders. Given the direct links between feed safety and safety of foods of animal origin, it is essential that feed production and manufacture be dealt with as an important part of the food production chain.

Feed production must be subject, in the same way as food production, to quality assurance including safety assurance based on Good Agricultural Practices (GAP), Good Manufacturing Practices (GMP) and the Hazard Analysis and Critical Control Point (HACCP) system.

The Codex Alimentarius Ad Hoc Intergovernmental Task Force on Animal Feeding developed an internationally-agreed Code of Practice on Good Animal Feeding; the Codex Alimentarius Commission adopted this Code in July 2004. Collaboration between the feed industry, livestock producers and government agencies was required in the application of the Code of Practice and to support such collaboration, the project set out to prepare a detailed Feed Manuals as a basic guideline for industry - and for on-farm producers of animal feed - which will serve as an on-going, updatable information source. The Project also organised workshops and training, through international collaboration, to emerging feed producers and feed industries in developing and transition countries.

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Project Objectives

The objective of the Project was to help ensure the safety of food for human consumption through the development and implementation of good animal feeding practice at the farm level (GAPs) and good manufacturing practices (GMPs) during the procurement, handling, storage, processing and distribution of animal feed and feed ingredients for food-producing animals. This has been achieved through the production of the Feed Manual and its guidelines (additional sections to the main document which can be updated and expanded as and when required), through workshops and through subsequent national and regional training programmes.

The Role of GAPs, GMPs and HACCP

The Feed Manual and Guidelines focus on elaborating the general principles and specific requirements for: the production, storage and distribution of feed and feed ingredients; employment of risk analysis methodology consistent with internationally accepted practices; management of health hazards associated with animal feed, including feed additives and veterinary drugs used in medicated feed; control measures to avoid unacceptable levels of undesirable substances in feed and feed ingredients; the role of GAPs, GMPs, and HACCP, to control hazards that may occur in feed; traceability and record-keeping of feed and feed ingredients; inspection and control procedures; methods of analysis and sampling based on Codex sampling plans and methods elaborated by international organizations (ISO and/or AOAC International and conducted in official or officially accredited laboratories that employ Good Laboratory Practices); guidance in respect of the manufacture and use of feed on farm; good animal feeding practice, including pasture grazing, distribution, feeding, stable feeding and intensive feeding; specific conditions applicable to emergency situations.

A series of workshops have been held over the past 18 months to further develop the scientific basis of the principles and guidelines, and to raise awareness of the Codex Code of Practice on Good Animal Feeding and promote the dissemination of information and acceptance of the elaborated guidelines.

As a follow-up, not only will training programmes be undertaken to develop national and regional capacity for safe feed production and utilization but an emphasis on organising developing countries feed sectors and feed associations will result. Already there is progress towards a Latin America Feed Industry Association that represents all countries in the region.

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Project Outputs

- i. Publication of a Manual of Good Practices for Animal Feeding including:
 - a. Good Agricultural Practices and HACCP for the feed industry
 - b. Feed industry standards for feeds and feed ingredients
 - c. Quality assurance for feed manufacturing in developing countries
 - d. Guidelines for trade in animal feed

(Translated into English, French, Spanish, Arabic and Chinese)
- ii. A series of Regional Workshops in support of the implementation of the Codex Code of Practice on Animal Feeding (held in Brazil, China, Kenya, Egypt and India in addition to Turkey and Thailand where break-out workshops on the Codex and Feed Manual were held alongside other events).

Project Timetable

Work on Three Continents

The series workshops undertaken by the Project were carried out on three continents - South America, Africa and Asia - and were added to as the opportunities arose over the period of the Project. It is interesting to note that the last two workshops - held in Kenya and Egypt were subject to time delays. The workshop in Kenya was included in the FAO Regular Programme Activities for 2006 under the Programme Entity: Veterinary Public Health and Food Safety. In the case of Egypt, Bird Flu created a serious impediment to the staging of a Regional Workshop on Good Practices for the Meat and Livestock Sector (which included a session on implementation of the Code of Practice on Good Animal feeding) that attracted feed and feed-related experts from 16 of the Near East member countries.

The FAO Animal Production and Health Division's Regular Programme provided additional in support of IFIF members to enhance attendance.

Invitations to the workshops were issued jointly by IFIF and FAO and included:

- Ministries of agriculture, industry and public health
- Government representatives of Codex Committees (CAC, CCFH and TFAF)
- Regional subscribers to the mailing list of Food Quality and Safety Update
- Regional subscribers to FAO mailings on animal feed & veterinary public health
- National animal feed industry association members
- Animal feed companies and associated industries and suppliers
- Farmers organizations and cooperatives (where applicable)
- Press and media representatives

While IFIF and FAO supported, and in some cases sponsored, key participants from Project funds, the workshops remained open to interested persons from industry and other stakeholder groups.

A Role for National Associations

Follow up will be achieved in the first place by the establishment of National Feed Industry Associations, where not yet in place. This will serve for the distribution of the Manual of Good Practices for Animal Feeding and other literature. The networks established will be used to circulate further advice and information and may even in time operate as an early warning service. This will lead to further improvement in standards and implementation of the Code of Practice and to opportunities for discussion of local problems and issues.

Workshops, Meetings and Presentations

Once the WTO Standards and Trade Development Facility (STDF) Project 56 had been approved, the IFIF Board took its aims and objectives into its planning for 2005-06 with the view of ensuring that all events attended, or invited to be attended, received information about the Codex Code of Practice on Good Animal Feeding and the reasons for its adoption in terms of trade liberalisation (where feed is concerned) and the prospect put forward by the European Union that trade with member states would not be impeded if the country supplying the animal products were in compliance with the conditions of the Codex Code.

It became clear quite early on that the platform of feed and food safety transcended all other issues for the feed sector and IFIF member countries in particular were keen to adopt the Codex Code and to help neighbouring countries do the same. As a result all IFIF staff and its members were requested to carry the message of both the Codex Code and Feed Manual to all meeting they attended and through presentations they made in 2005-06. Some of those are listed in the Table Planning Meetings and Presentations.

Helping your neighbour

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Feed Industry Meetings: Presentations and meeting where the Code of Good Animal Feeding Practice was a central topic for a feed manufacturing audience

Project Workshops		
Date	Name	Country
September 11-13, 2006	Cairo	Cairo, Egypt
June 26-27, 2006	Kenya Feed Manufacturers Association	Nairobi, Kenya
December 15-16, 2005	China Feed Technology & Economy Forum	Beijing, China
September 16, 2005	Compound Livestock Feed Manufacturers Association AGM	Goa, India
July 14-16, 2005	Global Feed & Food Congress	Sao Paulo, Brazil

Planning Meetings and Presentations: Where partners met to discuss progress and strategy in both the aims and objectives of meetings and the development of the Global Feed Manual and also meeting at which IFIF representatives were invited to talk about the Code of Good Animal Feed Practice and the development of the Feed Manual

Project Meetings / Presentations		
Date	Name	Country
August 25-26, 2006	CLFMA Annual Meeting	Puna, India
June 3-4, 2006	F4 Meeting	Nanjing, China
April 9-11, 2006	Turkish Feed Manufacturers Conference	Izmir, Turkey
March 14-15, 2006	FAO	Rome, Italy
November 14-16, 2005	Integrated Livestock-Crop meeting the Challenges of Globalisation and Workshop & Thai Feed Manufacturers Association	Thailand
September 6-10, 2005	Advancing Modern Technology Prospects for Agriculture 'International AGRO-Bio-technology Conference'	Harbin, China

Project Budget

The objective of Project STDF 56 was to help ensure the safety of food for human consumption through the development and implementation of good animal feeding practices at farm level (GAPs) and good manufacturing practices (GMPs) during the procurement, handling, storage, processing and distribution of animal feed and feed ingredients for food-producing animals. This has been / and will continue to be achieved through:

- i. The production of a Feed Manual and associated feed guidelines based on the Codex Code of Practice for Good Animal Feeding
- ii. Workshops and subsequent national and regional training programmes

The Budget: Funds made available to IFIF were spent to achieve most cost-effective way of holding the prescribed number of workshops and meetings and still provide sufficient funding to develop, translate, print and distribute a comprehensive Feed Manual for the global feed industry and on-farm feed mixers

Project Workshops		
Item	US\$ Budgeted	US\$Spent
Consultants (<i>authors</i>)	15,000	10,000
Contracts	15,000	12,000
Publications (<i>Manual plus programs and other literature</i>)	30,000	37,000
Translations (<i>This funding is committed for translation, etc of the Manual</i>)	25,000	25,000
Workshops	50,000	55,000
Travel	15,000	11,000
TOTAL	US\$150,000	US\$150,000

The Project

A Feed Manual and Guideline for the Feed Industry

The Manual of Good Practices for the Feed Industry is intended as an extended practical and illustrated guide to the implementation of the Codex Code of Practice for Good Animal Feeding. The contents are based on the Code, which includes the following: General principles and requirements; production, processing, storage, transport and distribution of feed and feed ingredients; on-farm production and use of feed and feed ingredients; methods of sampling and analysis.

The Feed Manual will be presented in 13 Sections: the first section being the primary document and the following 12 Sections dealing with specific feed safety factors. The decision to produce the Feed Manual in this format is to allow for it to be easily updated and to be able to add additional Sections as the need arises. It will also reduce costs associated with translation and distribution in future.

Dr Stephen Auman (Potash Corporation and North Carolina State University) and David Bossman (former President of the American Feed Industry Association) were engaged to write the text. The draft was completed in November 2005 and has been circulated to various organisations for comment, including: IFIF, FAO, the European Feed Industry Federation (FEFAC), the Brazilian Feed Industry Syndicate (Sindirações), the Chinese Feed

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Industry Association (CFIA) and other individuals and companies. Comments have been received and incorporated.

Currently, the authors are collecting and selecting appropriate high quality illustrations for inclusion in the final product. Agreement has been reached with the journal *Feed International* to provide photographs as well as Feedstuffs to provide information on feed ingredients for inclusion in the Feed Manual.

Final publication after formatting, editing and proof reading, is expected in early 2007. The determination of the Sections relating to feed ingredients and undesirable substances have caused much discussion within the feed industry. At the time of submission of this report the document is in proof format on the IFIF website - in all its 13 sections - and is available for download as a pdf document. Plans are underway to print a 'boxed version' of the documents for distribution to feed manufacturers and feed associations. These will be hard wearing editions that will be recorded for updating purposes. 'Covered version' will also be printed for distribution to government agencies, universities, institutes and global and regional organisations working in or related to the feed sector. Copies will be available on CD and DVD on request and the Feed Manual will be available for download from the IFIF website (www.ifif.org) in addition to being available through the FAO's website and publications office.

Meetings & Workshops

i. Global Feed & Food Conference São Paulo, Brazil

July, 2005

Five hundred people from 44 countries attended the FAO-IFIF Global Feed & Food Congress, organised in the IEP Research Institute, (Instituto de Ensino e Pesquisa/ Hospital Sírío Libanês), São Paulo, Brazil. These included delegations from China, India and Nigeria, as well as the Latin American countries, USA and Europe. The purpose of the meeting was to promote the implementation of the Codex Code of Good Animal Feeding and to discuss relevant associated issues. In the first plenary session, Annamaria Bruno (FAO Codex Secretariat) presented a paper on the role of Codex and Andrew Speedy (FAO) presented a paper on implementing the Code of Good Animal Feeding. Further papers were presented by Stephen Sundlof, Director, Center for Veterinary Services, US-FDA, and Rui Cavaleiro Azevedo, Administrator, Directorate General SANCO, European Commission. Speakers from the feed industry associations were Joel Newman (American Feed Industry Association), Martin Tielen (European Feed Manufacturers Federation), Xie Hongjun (China Feed Industry Association) and Nelson Chachamovitz (Sindirações). In discussion, Dr Speedy encouraged international and private sector agreement on codes of practice. Tim Oliver (UK) made a presentation on the International Feed Ingredient Standard (IFIS) which is currently agreed between four countries and seeking wider concurrence. It was clear that there is much agreement and considerable support for developing international guidelines based on the principles in the Codex Code of Practice.

The plenary session on the second day consisted of the International Forum on TSE and Food Safety (TAFS). Speakers included: Ulrich Kihm, Dagmar Heim and Lukas Perler (Switzerland); Danny Matthews, Brian Cooke and Philip Comer (UK); Linda Detwiler, and Mo Salman (USA); Conrad Brunk (Canada); and Guilherme Marques and Sebastião Guedes (Brazil). Much attention was paid to the implications of the new (May 2005) OIE classification of BSE risk status classification.

Over the three days of the Congress, there were approximately 70 speakers with break-out sessions on feed additives, minerals, antibiotics, biotechnology, quality systems and certification, and food safety and the environment. The IFIF STDF Project supported the attend-

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ii. Compound Livestock Feed Manufacturers Association Annual Meeting Goa, India

September, 2005

The Indian Feed Manufacturers' Association, CLFMA, held its 38th Annual General Meeting in Goa on September 16, 2005. The meeting attracted over 350 delegates and included representatives from the poultry processing and dairy industries. The theme of the meeting was 'Farm-to-Fork – Safety First'. A guest speaker during the opening session was IFIF's Secretary General Roger Gilbert who presented a paper on Global Feed Safety and the Codex Code. In a meeting following two-days of working sessions, Bharat Tandon the Chairman of CLFMA, agreed that a copy of the Codex Code of Good Animal Feeding Practice should be sent to every CLFMA member. The Code would also be incorporated into feed industry practice and be used as a reference document in terms of feed-food safety.

iii. China Feed Technology and Economy Forum Beijing, China

December, 2005

The IFIF STDF Project supported the attendance of Dr Martin Tielen (European Feed Manufacturers Federation, FEFAC) and Dr Andrew Speedy (FAO) at the China Feed Technology and Economy Forum held in Beijing, China, December 15-16 2005. A Forum on International Development of the Feed Industry and Implementation of the Codex Code of Practice on Animal Feeding, was hosted by Dr Cai Huiyi, Director General of the Feed Research Institute (FRI), Chinese Academy of Agricultural Sciences (CAAS), Beijing. Further major papers were given by Mr Bai Meiqing, President of the China Feed Industry Association, on the Chinese Feed Industry, and Prof. Li Yining, Peking University, on Analysis of China's Economic Growth in 2006. The effects of avian influenza on the feed and poultry industries had been serious (50% fall in consumption) but there was optimism about recovery. Ms Fang Yan, Deputy Director of National Development and Reform Commission (NDRC), gave a paper on the China Agricultural Development Plan and feed industry growth. Private sector representation included: Mr Chuck Warta, Cargill, Dr Harald Röckel, BASF and Yao Min Pu, CP Group.

Dr Martin Tielen, President FEFAC, gave a presentation on the new EU feed hygiene regulations, European Feed Manufacturers Code and requirements for registration of feed business operators including third countries. There were further discussions on agricultural policies, strategies for development of the feed industry and feed ingredients and business. As an IFIF Board Member, Dr Tielen also addressed the Code of Good Animal Feeding Practice.

There was a speech by the Vice Minister of Agriculture, Mr Yin Cheng Jie. The eleventh five-year plan 2006-2011 is about to commence following the approval by the Sixteenth Party Congress. Two of the main elements are 'new industry' and 'new countryside'. There will be emphasis on redressing the imbalance of incomes between urban and rural people and participation in markets through producer associations was stressed. The Vice Minister also stressed the urgent need to improve food safety, especially in the poultry sector and to address the problem of heavy metal contamination in animal feeds.

The Forum was attended by over 900 registered delegates from industry, government, research institutes and universities.

Legislative upgrade in China

A project has been proposed with the objective of legislative upgrading and training of key persons in the Ministry of Agriculture, Institute of Animal Science, Provincial Animal Bureaux, livestock and feed industry on safety and quality, international standards, inspection and certification. This is expected to lead to a wider programme of provincial development and training.

A private meeting was held with Mr Yang Zhen Hai, Director, National Feed Industry Office and Bureau of Animal Husbandry and Health, Ministry of Agriculture and Dr Wang Jiaqi, Deputy Director, Institute of Animal Science, CAAS to discuss training on the implementation of the Codex codes for feed and livestock. It was noted that this was a most opportune time for development of standards and Good Agricultural Practices, with the start of the eleventh five-year plan 2006-2011. It was clear that there were three areas of interest: the development of feed legislation through the training of key Ministry of Agriculture and Institute staff; the regional development of feed safety standards through in-country workshops and training courses; study tours and overseas training of young scientists in laboratory techniques for feed analysis and protein identification techniques. Dr Wang also met with 13 members of the National People's Congress who were concerned to develop feed legislation.

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iv. Workshop on Good Practices for the Feed Industry Nairobi, Kenya

June 2006 (May 2006 - postponed)

Preparations were underway for the African workshop to take place in Kenya in May 2006. This will be in collaboration with FAO and AKEFEMA (the Kenya Feed Manufacturers Association) through its chairman Richard K. Ephanto. However, the undertaking to invite representatives from other southern and east African countries, including the African Feed Manufacturers Association (AFMA) from the Republic of South Africa, led to a six week delay. The meeting took place from June 26-27, 2006.

The conference was held in the Silver Springs Hotel, Nairobi with 91 participants from 10 countries attending. The meeting was organized with the able support of Richard Ephanto (Kenya Agricultural Mart) and Bill Lijoh (Ministry of Livestock and Fisheries Development - MoL&FD) and the assistance of the FAO Representation in Kenya, particularly Augusta Abate (Assistant FAOR - Programme) and Kithinji Mutunga (Field Assistant, FAOKE).

International speakers were supported by IFIF (through STDF Project funds) and included Paul Davies (Royal Agricultural College, UK), Roger Gilbert (IFIF), Martin Tielen (European Feed Manufacturers Federation, FEFAC) and Sjo Zwart (European Association of Feed Mineral Manufacturers, ENFEMA).

FAO supported regional speakers: Hansie Bekker (South Africa), Germana Laswai (Tanzania), Steven Byenkya (Uganda) and Anthony Chacko (Zambia); and the participation of Stephen Ghanie (Botswana), Martin Simtenda, and Louis Mtenga (Tanzania), Juliet Sentumbwe, Stephen Kajura, Mary Tamale and Flavio Oliveira (Uganda).

Kenyan participants included several persons from the MoL&FD, Veterinary Services, representatives of the Kenyan Bureau of Standards, Ministry of Health, National Cereals and Produce Board, Agricultural Development Corporation, Kenya Meat Commission, Kenya Poultry Farmers Association, Kenya Dairy Board, Kenya Cooperative Creameries, university and research institute staff, as well as from a number of private feed, meat and dairy companies and other persons from small farmer associations.

On the afternoon prior to the meeting, visits were made to Unga Feeds Ltd., and Kenchic poultry processing factory. Participants observed the implementation of good manufacturing practices (GMP) and HACCP in the two factories.

The meeting was opened by Dr Jacob O. Ole Marion, Permanent Secretary, MoL&FD. The welcome on behalf of FAO was given by Graham Farmer, OIC FAO Somalia and for IFIF by Roger Gilbert.

Papers presented at the meeting included: Improving food and feed safety in South and East Africa, A. Speedy, FAO; Feeds standards and regulations in Kenya, M.M. Wangai, Kenya Bureau of Standards; Feed standards and regulations: implementation in South Africa, H. Bekker, South Africa; Implementing the Codex Code of Practice for Good Animal Feeding, R. Gilbert, IFIF; The European Feed Manufacturers Code and its relation to the future global trade in animal feed products, M. Tielen, FEFAC; The role of GMP and HACCP in the feed industry, Paul Davies, Royal Agricultural College, UK; Safety issues with regards to feed raw materials, including minerals and other feed additives, S. Zwart, EMFEMA; Quality and variability of raw materials for animal feeds in Kenya - A survey, D. Bastianelli, CIRAD; and the status of the feed industry in selected countries (Kenya, Tanzania, Uganda and Zambia) by country representatives. There followed papers on: Capacity building for feed safety and quality: FAO's activities, D. Battaglia, FAO; and The role of national and regional feed industry associations, H. Bekker, South Africa, and P. Karanja, Association of Kenyan Feed Manufacturers (AKEFEMA).

Participants' points-of-view on the following questions:

- i. How do we better address medium and small producers/enterprises to support them to apply the Codex codes and standards?
- ii. How can feed associations be encouraged and developed?
- iii. What are the specific technical training needs for the improvement of feed safety and how can funds be obtained to facilitate these developments?

Extensive and positive discussions followed with numerous and articulated responses which took into account a wide range of aspects. They mainly indicated the need for: adequate legal frameworks, especially on animal feed; enhancement of information dissemination and awareness building especially addressing small producers; institutional development (support for the creation of producers associations); need for training in basic animal nutrition, Good Agricultural Practices (GAP) and Good Hygiene Practices (GHP).

The conclusions of the meeting were as follows:

In reality, the major problems of feed safety and quality in the region are the quality and price of raw materials reaching the local producers. There is wide variation in composition and quality of raw materials; a national database of feed materials was proposed. The price of raw materials is made unreasonably high by the application of import tariffs and dumping duties. The latter leads to high costs of animal products (e.g., broiler chickens cost US\$3 in Kenya compared to US\$1 in Brazil. These issues need to be addressed.

Effective National Feed Associations are needed to provide a coherent voice in discussions with Government, as well as for the elaboration of local standards, codes and guidelines and the provision of information to producers. The participation of small and medium producers requires training and the establishment and further development of associations is necessary to give the industry a voice when dealing with government departments.

Poor raw materials in Africa

In reality, the major problems of feed safety and quality in the region are the quality and price of raw materials reaching the local producers. There is wide variation in composition and quality of raw materials; a national database of feed materials was proposed. The price of raw materials is made unreasonably high by the application of import tariffs and dumping duties.

v. Workshop on Good Practices for the Animal Feed and Livestock Industries in the Region of Near East Cairo, Egypt

September 2006 (March, 2006 - postponed)

The Workshop on Good Agricultural Practices for the Animal Feed and Livestock Industries planned for October 2005 in Cairo, Egypt was delayed until March 2006 and postponed again until September 2006. This delayed the completion of the STDF Project by some months but was outside the control of IFIF and its partner institution FAO.

The workshop was held at the Agriculture Library, Cairo University, with 60 participants from 16 countries attending. International speakers were sponsored by the IFIF through the STDF Project and included Dr Paul Davies (Royal Agricultural College, UK) and Roger Gilbert (IFIF). FAO sponsored regional speakers.

Papers presented at the meeting included: Animal Health Issues in the Region of Near East, T. Ali, FAO; The new Codex Alimentarius Codes of Hygienic Practices for Meat and of Good Animal Feeding: the Role of FAO in Codes implementation, A. Speedy, FAO; Codex Alimentarius Code of Hygienic Practices for Meat: implementation in Egypt. Prof. Salah Abu-Rayah, College of Agriculture, Cairo University; Antiparasitic and antimicrobial resistance in veterinary medicine, C. Eddi, FAO; Animal Feed Processing in Egypt, Prof. Sabry Awadallah, College of Veterinary Medicine, Cairo University; The International Feed Industry Federation: Implementing the Codex Code of Practice for Good Animal Feeding, R. Gilbert, IFIF; The role of GMP and HACCP in the feed industry, P. Davies, Royal Agricultural College, UK; Development of the Egyptian Private Sector in Meat industry, Prof. Omar Youssri Abdalla, College of Agriculture, Ein-Shams University; Capacity building for feed and food safety and quality: FAO's activities, D. Battaglia, FAO; The role of national and regional feed industry associations, R. Gilbert, IFIF and the State of animal feed, meat and livestock production in selected countries (Libya, Morocco, Lebanon, Iraq, Iran, Jordan, Syria) by country representatives.

Country presentations varied in quality, but they all addressed a broad range of issues and mainly indicated that major problems of feed in the region are the quality and price of raw materials reaching the local producers. There is also wide variation in composition and quality of raw materials (especially by-products).

Participants' points-of-view were gathered on the following questions:

- i. How do we enhance regional coordination in order to facilitate trade between countries?
- ii. How do we better reach our target in the dissemination of information?
- iii. How do we develop and support feed producers associations and what are the specific technical training needs?
- iv. How do we make standards relevant to small producers and help them to access the market?

Extensive and positive discussions followed with numerous and articulated responses which took into account a wide range of aspects. They mainly indicated the need for: enhancement of information dissemination and awareness building addressing producers and competent authorities; adequate legal frameworks, especially on animal feed; translations into local languages of documents and publications; newsletters; information sharing networks; regional/national workshops also at grassroots level and technical field visits; institutional development (support for the creation of producers associations); training in feed formulation, feed technology, nutritional issues, feed/food safety, legislation; simplified standards for small producers and improved/dedicated information channels.

More work in Africa

Key elements should be taken into account in the formulation of future capacity building projects/activities in the Central East African region, financed either by the private sector or by specific donor country/organisation that could address specific training needs identified during the workshop

The conclusions of the meeting were as follows:

The above elements should be taken into account in the formulation of future capacity building projects/activities in the region, financed either by the private sector or by specific donor country/organization (e.g. in a future second WTO, STDF financed project that could address specific training needs identified during the workshops held within the framework of the currently financed project).

A number of Government representatives had been invited to describe the state of animal feed, meat and livestock production in their countries. They included representatives of: Egypt, Morocco, Tunisia, Jordan, Lebanon, Saudi Arabia, Syria, Turkey and the United Arab Emirates.

Discussion and short comments had been invited from Government representatives of Afghanistan, Algeria, Azerbaijan, Bahrain, Djibouti, Iran, Iraq, Kazakhstan, Kuwait, Kyrgyzstan, Libya, Mauritania, Oman, Pakistan, Qatar, Somalia, Sudan, Syria, Tajikistan, Turkmenistan, Uzbekistan, and Yemen; from industry representatives from Egypt and other countries: e.g. Daa Galy, Wadi Holdings SAE, Giza and from Organization of Veterinary Services; Arab Veterinary Association; Universities, etc. In all some 22 countries will be represented with three-to-five delegates each.

There is a need to identify whether or not countries are in compliance with the terms and conditions of the Codex Code of Practice on Good Animal Feeding.

There is also a need to reach those countries which are not within the scope of the work done under STDF 56 and those that do not have national feed associations.

Workshop Follow-up

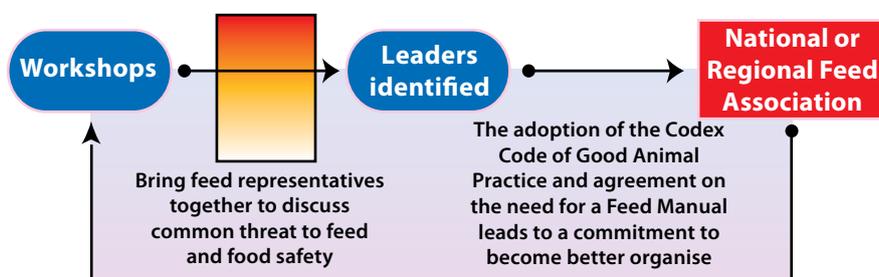
Overview and Further Development

The WTO Standards and Trade Development Facility (STDF) Project 56 has been successfully completed with the five workshops specified in STDF 56 having taken place and the Manual of Good Practices for the Feed Industry in production. It will be printed and distributed in early 2007.

Follow-up training is planned for a number of the countries and new feed associations are being set up, including a Latin American Feed Trade Association and possibly a Central/East African Feed Group and a Near East Feed Group.

While much has been achieved in bringing the Code of Practice on Good Animal Feeding to the attention of the world's feed industry it is felt, by the IFIF Board, that more work needs to be done beyond that contained in the aims and objectives of STDF 56.

Information Flow diagram: Most developing countries do not have a structured feed sector and cannot talk to their respective governments through an independent, common voice. Establishing ways of co-ordinating their efforts and addressing common issues can be best achieved through national or regional feed associations



There is a need to identify whether or not countries are in compliance with the terms and conditions of the Codex Code of Good Animal Feeding Practice. There is also a need to

reach those countries which are not within the scope of the work done under STDF 56 and those that do not have national feed associations. The establishment of national feed associations (guidelines for their creation are being drafted as an annex to the Feed Manual) in all countries producing compounded animal feeds is essential not only for the adoption of the Codex Alimentarius standards and Code of Practice but to also to allow prompt and effective communication with the world's feed producers – which will be essential when dealing with emergency notifications, ingredient recalls and future modifications to standards and codes.

Project Conclusion

In the developing world we want to ensure safe feed is provided to food producing animals at a price that will allow consumers to continue to increase their consumption of animal products. However, not all developing countries are the same. Some have dramatically increasing populations and little economic change. Others are beginning to experience incomes rises that are leading to increased demands for food products of animal origin.

IFIF needs to address both groups of countries. Through Projects such as WTO's STDF Project 56 we have been able to make a significant and lasting impression on feed production in the developing world. There is considerable goodwill within our industry to provide the information and technology - at every level of animal feeding - to assist countries and companies in those countries to lift their production efficiencies.

IFIF is willing to work again with WTO's Standards and Trade Facility - and in term its partner institutions, such as FAO's Animal Production and Health Division - if the aims and objectives of projects can be clearly identified at the outset, which was the case in this instance.

Future Work: Developing countries and emerging economies have the potential for significant population growth ahead of them. Transferring feed technologies for the production of efficient and safe food products will be a key objective over the next 45 years

Global Feed Production: IFIF is aware that compound feed technology is most developed in the largest feed producing countries. It aims to help transfer this technology to developing and emerging economies	Statistics	2006
	World Population	6.5 Billion
	Compound Feed	600 million tonnes
	Total Livestock Feeds	24-24 million tonnes
	Feed Production	Tonnage
	USA	145 million
	EU	140 million
	China	100 million
	Brazil	50 million

Footnote:

IFIF is an observer non-governmental organization in the Codex Alimentarius Commission and its subsidiary bodies. FAO has worked closely with the International Feed Industry Federation (IFIF) has worked closely with FAO in regional meetings in a number of countries prior to STDF Project 56. IFIF is an International Non-Governmental Organization which brings together national and regional feed associations and federations and all others involved in the production of compound animal feeds worldwide.

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We believe that even greater efficiencies can be made in the production of animal products, based on renewable raw material, the use of unwanted ingredients and scientific data which allows us to maintain a steady decline in the amount of feedingstuffs it takes to produce animal food products.



IFIF

