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## MESSAGE FROM THE DIRECTOR GENERAL



Following the IDF World Dairy Summit 2013 in Yokohama, Japan, it is my pleasure to introduce this Special Summit Edition of the Newsbrief. Over 2000 participants from all around the world were treated to an extensive conference programme following the theme 'Rediscovering Milk'. Presenting the latest scientific research and industry initiatives, the Summit reflected the sector's ongoing commitment to help consumers and dairy chain stakeholders to both discover and rediscover the value of our industry and the nutritious products we produce.

For IDF members and experts the Summit began a little earlier, with a week of business meetings to further the IDF programme of work. I never cease to be impressed by the level of commitment and activity among our network, which covers every level of the dairy chain, and this Newsbrief offers a snapshot of just some of the highlights from the discussions that took place. IDF members can access full meeting reports on the IDF Intranet.

I would like to express my sincere thanks to the Organizing Committee from Japan for preparing this highly successful and memorable Summit.

The continued sharing of global dairy expertise is essential to the future of the sector, particularly as it strives to address the numerous challenges ahead. I look forward to seeing you all at the next IDF World Dairy Summit in Tel Aviv, Israel!

Dr Nico van Belzen  
IDF Director General

### *Interested in getting involved?*

Being involved with the IDF programme of work is an excellent way for experts to contribute to and learn from our expert network. [Get in touch with your National Committee](#) to learn more.

## **IDF WELCOMES A NEW MEMBER COUNTRY**

IDF is very pleased to welcome Bulgaria as a new Associate Member.

*“Active participation in the work of IDF is important for us because IDF develops manuals, scientific and technical information for dairy farmers and processors, prepares materials on the health properties of milk and milk products, organizes international meetings and conferences to exchange experiences and develops strategies for the development of the dairy sector worldwide,”* explained Dr Svetlana Minkova, the new National Secretary for the National Committee of Bulgaria. *“As IDF’s priority is to strengthen the role of science for dairy products worldwide, we believe that sharing that knowledge with our stakeholders will contribute to raising the level of the Bulgarian dairy industry as a whole.*

*Our expectations in brief are for increasing competitiveness of Bulgarian dairy sector, promotion of Bulgarian dairy science, quicker application of recently developed standards and methods and active participation in IDF committees.”*



*IDF Director General Dr Nico van Belzen (left) and IDF President Dr Jeremy Hill (right), pictured with Dr Svetlana Minkova, Secretary of the Bulgarian National Committee of IDF, welcome Bulgaria as a new member country at the IDF World Dairy Summit 2013.*

## **IDF TASK FORCE ON ANIMAL FEEDING**

IDF’s work on ensuring appropriate technical inputs to the new global regulatory framework for improving feed and food safety worldwide was completed a few months ago with the adoption and publication of new **Codex Guidelines on Application of Risk Assessment for Feed** and **Codex Guidance on Prioritizing Hazards in Feed**.

The forthcoming joint **IDF/FAO/IFCN report on World mapping of animal feeding systems in the dairy sector** will present an inventory of the different feeding systems used worldwide according to geographic zones and farm size. This will help to understand the complexity of this issue and to assess the impact of feeding modifications on existing systems, or any recommendation on animal feeding in terms of reducing carbon footprint, retaining animal health and welfare and increasing productivity.

The ultimate objective for this Task Force is the development of an IDF scientific-technical monograph on animal feeding in the dairy sector, taking into account the various requirements.

IDF’s work on animal feeding supports the global dairy industry as it looks to increase resource efficiency and sustainability of the entire value chain with focus on the primary production side.

### **Related Links**

[List of Codex Standards and Guidelines](#)

## **IDF STANDING COMMITTEE ON ANIMAL HEALTH AND WELFARE**

IDF’s objective in this working area is to inform the dairy sector about new developments in the field of animal health and animal welfare, and to guide the sector on prevention of diseases and application of best practices in animal welfare.

## Related Links

[IDF Guidelines for the use and interpretation of bovine somatic cell counts](#)

[OIE Animal welfare standards](#)

[IDF Guide to good animal welfare in dairy production](#)

The recently completed **IDF Guidelines for the use and interpretation of bovine somatic cell counts in the dairy industry** provide some common guidance on the interpretation and use of somatic cell counts with the aim to improve animal health and milk quality worldwide. A current work project on **Collection of data on industry milk quality and hygiene statistics** is intended to provide accurate and convincing data that can be used to encourage better awareness amongst farmers of the economic implications of failure to control or address mastitis. Prevention and improving the management of mastitis will save costs to dairy farmers as well as result in better health and welfare of milking animals and, last but not least, generate higher quality of milk for consumers.



*IDF Standing Committee on Animal Health and Welfare*

IDF provides technical input to the OIE process of development of an **OIE animal welfare standard for dairy cattle production systems** and follows very closely ongoing considerations within ISO to develop international guidance on management systems for animal welfare. Standards and guidelines in this area must be harmonized and outcome-focused, following the example of the **IDF Guide to Good Animal Welfare in Dairy Production**, which has been adopted in IDF member countries all over the world to assist dairy farmers rather than to add additional burden onto their shoulders.

## IDF STANDING COMMITTEE ON FARM MANAGEMENT

IDF addresses issues of international importance in the dairy sector and identifies possibilities for adding value to dairy production systems. This includes aspects of animal reproduction influencing performance, health and welfare, milk production, farm management and cooperation with international organizations in dairy-farm-management-related topics.

Current projects under way in IDF include the development of a **Guide to Hygienic Practices at Farm Level and in Milk Production**, jointly with FAO, and a **Guide to Good Animal Feeding in the Dairy Sector**. Both documents will serve as subsidiary guides to the **FAO/IDF Guide to Good Dairy Farming Practice (2011)** to outline the consensus of the global dairy sector on best principles and practices in milk production.

The guides will serve dairy farmers in their efforts to optimize production systems and they will also underpin the leading role of the dairy industry in terms of its unrivalled commitment to improving livestock keeping and animal derived food production.

## Related Links

[FAO/IDF Guide to Good Dairy Farming Practice](#)



*IDF Standing Committee on Farm Management*

## IDF STANDING COMMITTEE ON DAIRY SCIENCE AND TECHNOLOGY

IDF continuously informs the dairy sector and facilitates the flow of technological and scientific information to encourage innovative solutions in processing, packaging, storage and distribution of high quality milk and milk products.

### Related Links

Find out more about upcoming IDF events at:  
[www.fil-idf.org/EventsCalendar.htm](http://www.fil-idf.org/EventsCalendar.htm)

An upcoming IDF monograph on ***The importance of salt in the manufacture and ripening of cheese*** will document the latest scientific and technological knowledge necessary to better control and standardize salt levels in cheeses. IDF recognizes the public health concern with regard to the role of sodium in non-communicable diseases, as well as the need for its technologically justified and required use in the production of cheeses to ensure product quality and safety.



*IDF Standing Committee on Dairy Science and Technology*

The ***IDF Symposia on Microstructure of Dairy Products and Science and Technology of Fermented Milk*** to be held in Melbourne, Australia, from 3-7 March 2014 will showcase latest scientific findings and technological innovation in these fields. These advances continue to enhance the production process, as well as the nutritional and health benefits of dairy products to consumers.

IDF recognizes the growing importance of non-cow milk in some parts of the world. Developments in its production, processing and marketing will be addressed with the forthcoming ***IDF International Symposium on Sheep, Goat and other non-Cow Milk*** to be held in Limassol, Cyprus from 23-25 of March 2015. This is especially relevant at a time of growing concern about the impact of climate change on milk production and necessary adaptation strategies to ensure sufficient and affordable supply of milk for human nutrition and health.

## IDF STANDING COMMITTEE ON DAIRY POLICIES AND ECONOMICS

With the IDF expert committees actively producing work to further the progress of the global dairy sector, as well as providing a valuable opportunity for members to exchange information and knowledge, meeting participants reported on the political and economic situations in their respective countries. The Country Reports highlighted the situation of farm gate and retail prices, milk production and consumption as well as trade. An Executive Summary will be prepared in Fact Sheet format and circulated to all IDF members. Jim Begg, retiring from Dairy UK, was acknowledged for his contribution for several years in preparing the Country Report Summary.

The World Dairy Situation Report 2013 noted that 2012 was not a very exciting year since all parameters moved within historic ranges. 2013 is expected to be an exceptional year with prices well above average; prices are expected to decrease in 2014.

### Related Links

World Dairy  
Situation 2013



## 🔹 IDF STANDING COMMITTEE ON NUTRITION AND HEALTH

### Providing information on the nutritional value of milk and milk products

Providing up to date and comprehensive science-based information on milk and milk products in the diet and its role in nutrition and health is central to the work conducted by the expert committee. An example from 2013 is the co-organization of a Satellite Symposium exploring the theme **'Maintaining health with nutrient rich diets: the role of dairy in prevention of metabolic syndrome, CVD, obesity and sarcopenia'** at the IUNS Congress on Nutrition in September 2013.

In case you missed it, you can find speakers' presentations, videos and interviews on the IDF Nutrition Website. A 'Promotion' section was also added to the website this year, featuring examples from various IDF Member Countries celebrating World Milk Day and World School Milk Day.

### IDF/FAO School Milk Survey

Earlier this year, IDF was pleased to collaborate with FAO to produce the **School Milk Survey** – the largest of its kind – to gather information on the role milk plays in schools around the world. An analysis of the results will be available in 2014, presenting data on a wide range of factors, including levels of subsidization, number and size of servings.

### Technical information on Protein Quality

IDF welcomed the numerous reports and articles that were published in 2013 on the subject of protein quality and its role in a nutritionally adequate diet, including the **Dietary protein quality evaluation in human nutrition: Report of an FAO Expert Consultation**. The IDF expert committee

### 🔹 Related Links

[IDF Nutrition Website: IUNS Satellite Symposium](#)

[Dietary protein quality evaluation in human nutrition: Report of an FAO Expert Consultation](#)

[Milk and Milk Products in Human Nutrition \(FAO publication\)](#)

have compiled the latest science into a technical factsheet, due to be released shortly.

### FAO Report on Milk and Milk Products

IDF also welcomed the release of the FAO report on **'Milk and milk products in human nutrition'** earlier this year. Using the extensive technical expertise within the SCNH, a review of the report's key messages will be made available to IDF members.

## 🔹 IDF STANDING COMMITTEE ON FOOD LABELLING

The Standing Committee on Food Labelling met in Yokohama to discuss its extensive programme of work regarding the Codex Committee on Food Labelling and the Codex Committee on Nutrition and Foods for Special Dietary Uses, where it provides technical input on matters of key relevance for the global dairy sector.

With IDF providing a global platform to network and share global dairy expertise, meeting participants also took part in a roundtable discussion on their experiences at national level regarding food labeling regulation.



*IDF Standing Committee on Nutrition and Health*

## **IDF STANDING COMMITTEE ON FOOD ADDITIVES**

### **Codex Committee on Food Additives (CCFA) approach on alignment of standards with the General Standard for Food Additives (GSFA)**

Food standards play a key role in international trade. IDF is committed to ensuring that dairy products are safe and are of high quality to be traded internationally. The alignment of food standards and other regulations is essential to increase harmonization and to simplify matters for the end user. The current CCFA approach for alignment of food additives provisions was illustrated within the IDF expert committee with the provisions from the commodity standard on unripened and ripened cheese to match the GSFA. This same process will be applied to other dairy standards. The IDF expert committee also generated a list of product categories that are important to international trade to work on next. These include dairy products of topical importance to international trade such as Milk and Cream Powders, Fermented Milks and Mozzarella.

#### **Related Links**

[Codex General Standard for Food Additives \(GSFA\)](#)

### **Ongoing revisions to Aluminium intake levels**

The Provisional Tolerable Weekly Intake (PTWI) for Aluminium is being revised, and concerns have been raised regarding current maximum levels. The CCFA has therefore initiated a revision of the provisions for aluminium containing additives. IDF has demonstrated the scientific evidence and technological need for the retention of the provision for INS 554 (aluminosilicates) as an anticaking agent for salt used in the dry salting of certain varieties of cheese.

## **IDF STANDING COMMITTEE ON RESIDUES AND CHEMICAL CONTAMINANTS**

### **Risk Profiling Form for Aflatoxin M1**

This project is aimed at creating guidance to help dairy stakeholders with risk profiling of Aflatoxin M1 (AFM1) as the mycotoxin of paramount importance to the dairy sector. This would include establishing routine monitoring of animal feed and milk to reduce incidence of contamination. An electronic format of the document will be created allowing the users to access different depths and layers of knowledge as desired. In addition the electronic publication would also allow for rapid, convenient updates. The guidance document will contain a working spreadsheet, where users can add data (such as feed/crop, time, temperature and humidity) and receive AFM1 risk estimates. Furthermore, it was envisaged that this effort on AFM1 could trigger a series of short documents to be prepared by the IDF expert committee, according to previous hazard and risk prioritization exercises and current international trends.

### **Sharing Expertise**

Members of the IDF Standing Committee updated the group on various other projects and organizational meetings they have attended, including the Codex Committee on Contaminants in Foods and the Codex Committee on Residues of Veterinary Drugs in Foods. IDF is tackling the Codex regulatory work on standards for food safety in a holistic manner.



*IDF Standing Committee  
on Residues and  
Chemical Contaminants*

## IDF STANDING COMMITTEE ON MICROBIOLOGICAL HYGIENE

### **Guidelines for experimental design protocol and validation procedure for the measurement of heat resistance of microorganisms in milk**

The goal of this project is to produce a scientific journal article reviewing literature and best practices on procedures for the measurement of heat resistance of bacteria in milk. The article will cover the following key points:

- Selection and preparation of challenge organisms
- Experimental design
- Thermal treatment apparatus
- Analysis and interpretation of results

The article is near completion and expected to soon be submitted to the Journal of Applied Microbiology.

#### Related Links

[Moving Windows Approach - IDF Press Release](#)

[Codex Principles and Guidelines of the Establishment and Application of Microbiological Criteria](#)

### **Development of ‘Moving Windows Approach’ for food safety systems**

A new “moving windows approach” has been developed to verify the performance and acceptability of an entire food safety control system. This has been developed under the umbrella of the IDF Standing Committee on Microbiological Hygiene, in close collaboration with the Codex Alimentarius, the Food and Agriculture Organization of the United Nations (FAO) and the World Health Organization (WHO). A peer-reviewed article providing further details on the implementation of the method will be published in Food Control in the coming months.

This new approach has been introduced into the recently published ***Codex Principles and Guidelines of the Establishment and Application of Microbiological Criteria***. The document reflects important elements as developed in the Principles and Guidelines for the conduct of Microbiological Risk Management Metrics, including new risk metrics such as Food Safety Objective (FSO), Performance Objective (PO) and Performance Criteria (PC) as well as other quantitative microbiological limits (e.g. process control based criteria and testing for HACCP verification). It implies a change of focus from testing acceptability of individual batches of products to testing the acceptability of the performance of the food safety control system.

### **Technical Fact Sheets in the Pipeline**

IDF factsheets aim to provide clear and concise information, compiling the latest science on the topics most relevant to the dairy sector. IDF is currently working on technical factsheets on the following topics: *Mycobacterium avium* subspecies paratuberculosis, Risk-based food safety management, *Cronobacter sakazakii* and an Inventory of dairy microorganisms.

## IDF STANDING COMMITTEE ON STANDARDS OF IDENTITY

### **Codex regional standardization of fermented products ayran and doogh**

Ayran and Doogh are fermented milk drinks of increasing popularity in some parts of the world. IDF’s role is to assist Codex regional committees with the technical aspects of the standards development in order to ensure that the resulting standards will not conflict with the Codex Standard for Fermented Milks and hence not cause an impediment to international trade.

### **Codex considerations on new work on processed cheese standard**

The Codex Alimentarius Commission established an electronic working group to consider issues in regard to the proposed development of a standard for processed cheese. IDF is providing technical advice to Codex with the objective to avoid contradictory regulatory requirements for a very diverse group of milk products.



*IDF Standing Committee on Standards of Identity*

### **Inventory of legislation related to standards of identity of dairy products**

Legislation on milk and milk products is a very broad and complex area of major interest for the dairy sector worldwide. The task of sourcing the relevant legislation of individual countries can be a time-consuming and there is no single source of reference at the moment. IDF has a long and respected record in the development of Codex standards, codes of practice and guidelines pertaining to milk and milk products. Work is ongoing to develop an inventory of national legislation pertaining to milk and milk products from IDF member and non-member countries throughout the world. The results will be made available to IDF members on the IDF Intranet. This will assist the harmonization efforts underway in IDF member countries.

## **🌊 IDF STANDING COMMITTEE ON ENVIRONMENT**

### **LCA guidelines on carbon, water, and biodiversity**

Addressing environmental challenges is a priority for the global dairy sector, and the IDF Standing Committee on Environment (SCENV) continues to broaden its work programme to provide robust science-based guidance. With the common approach of the Life Cycle Assessment (LCA) methodology, three new guides will be released. A revised version of the LCA guide to assess carbon footprint will reflect scientific advancement in the methodologies applied to feed, land use and land use change, carbon sequestration and allocation. During 2014, the IDF guide for water footprinting will be released, and work will begin on guidelines to assess biodiversity in the dairy sector.



*IDF Standing Committee on Environment*

### **Liaison with international organizations**

Achieving harmonization in the development of strategies and methodologies to address environment and sustainability issues is imperative, owing to the quick progression in science in this area and the urgent need to define efficient international policies. The participation of IDF experts in the FAO initiatives LEAP (Livestock Environmental Assessment and Performance Partnership) and GASL (Global Agenda for Sustainable Livestock, previously known as the Global Agenda for Action), represents an important opportunity to exchange and contribute knowledge to create alignment in the whole livestock sector. The SCENV will continue supporting these initiatives and will increase the number of experts involved.

## THE DAIRY SUSTAINABILITY FRAMEWORK

Launched at the IDF World Dairy Summit 2013, the Dairy Sustainability Framework (DSF) provides overarching goals and alignment of the sector's actions globally on the path to sustainability. This is an initiative under the umbrella of the Global Dairy Agenda for Action (GDAA) and provides a more ambitious and holistic approach to tackling sustainability challenges.

The DSF is focused on eleven key sustainability categories, with a global layer offering an overarching sustainability vision for the global dairy sector. It also includes regional and local layers, enabling a prioritization of the issues relevant to the region, while connecting them at a global level. In addition, it provides organizations with the ability to map and connect existing activities with other like-minded organizations, allowing for cross-fertilization of ideas.

**All dairy stakeholders are encouraged to join the framework** and contribute to the sector's commitment to improving its ability to provide safe and nutritious products from healthy cattle, whilst preserving natural resources and ensuring decent livelihoods across the industry.

Further details, a checklist of actions and sign-up form can be found at [www.dairysustainabilityframework.org](http://www.dairysustainabilityframework.org)

## IDF AWARD

The 2013 IDF Award was presented to Professor Emeritus Roger K. Abrahamsen, Dep. of Chemistry, Biotechnology, and Food Science, Norwegian University of Life Sciences.

With a career in the dairy sector spanning almost 40 years, Prof. Abrahamsen has contributed significantly to the development of the dairy industry on both national and international level. In addition to his outstanding knowledge and experience in the field of dairy science and technology, he has devoted a great deal of time to passing on his expertise to both students and those employed in the dairy industry.



*Prof. Roger K. Abrahamsen*

Prof. Abrahamsen has been involved with IDF since 1984 as a member of the Standing Committee on Dairy Science and Technology and as a member of the IDF Scientific Programme Coordination Committee (2004–2011.)

The IDF Award recognizes remarkable contributions to progress in dairying worldwide and is attributed on the basis of submissions by IDF National Committees.

## IDF PRIZE OF EXCELLENCE

Odd Rønningen has been awarded the inaugural IDF Prize of Excellence for his important contribution to sustainable world milk production. This award is a mark of recognition and appreciation for his outstanding work and involvement in the IDF Programme of Work in accordance with the following five concepts: speed, worldwide visibility, impact, focus and transparency.



*Chair of the IDF Scientific Programme Coordination Committee, Michael Hickey (left), presents the IDF Prize of Excellence to Odd Rønningen*

For the past 22 years, Odd Rønningen has played a significant role in the advancement of the work programme of the Machine Milking working group and other committees aimed at developing and revising the ISO standards for milking machines and automatic milking.

His work, focused on mastitis prevention and control, has been a major asset to dairy farmers worldwide. Odd is recognized internationally for his contribution to a sustainable worldwide milk production and for his major commitment to animal welfare.

The IDF Prize of Excellence recognizes important contributions to the IDF Programme of Work and is awarded on the basis of submissions by IDF National Committees.

## **YVES BOUTONNAT IMP TROPHY AWARD**

The 2013 International Milk Promotion (IMP) mid-year meeting was held in Northern Ireland. There were six countries with different entries in the competition. The three finalists were:

- Canada: The Canadian Cheese Rolling Festival 2012
- South Africa: Consumer Education Project of Milk South Africa
- United States: Refuel with Chocolate Milk to Win the Race for Milk Sales

The winner of the Yves Boutonnat IMP Trophy Award for 2013 was MilkPep (US) with Refuel with Chocolate Milk to Win the Race for Milk Sales.

Congratulations to the winner and the other finalists!



*Chair of the IMP Group, Ida Berg Hauge (Left) presents the Yves Boutonnat IMP Trophy to Vivien Godfrey, representing MilkPep (US)*

## **NON-SUMMIT REPORTS**

### **The 4th Global multi-stakeholder platform meeting of the Global Agenda for Sustainable Livestock (previously known as the Global Agenda for Action) 14-18 October 2013, Ottawa (CA)**

**Recognizing the role of intergovernmental organizations in global efforts to improve sustainability, IDF participates in the FAO-led Global Agenda for Sustainable Livestock (GASL). The Agenda aims to improve livestock sustainability by developing good practice metrics, methodology and voluntary recommendations.** It includes inter-governmental organizations, public and private sector representatives, producers, research and academic institutions, civil society and community-based organizations. Consensus forms the basis for stakeholder commitment to innovation and investment in practice change that contributes to large environmental, social and economic gains.

- Focus area 1 (FA1) "Closing the efficiency gap" scoped its assignment in more detail, reviewing existing organizations and initiatives, analysis of livestock information systems, modeling and indicator selection. Quantification of efficiency gaps in target countries, regions, and production systems is being developed. Defining criteria for prototype pilot projects is scheduled for early 2014.

- FA2 “Restoring value to grasslands” has identified several pilot sites in different continents and is developing a synthesis of non-market benefits of grassland restoration.
- FA3 “Waste to worth” is developing a global inventory of current manure distribution, management practices, and associated nutrient balances. FA3 has developed a proposal (‘Manure Kiosk’) for external funding, focusing on practical methods for manure management. Another option considered is a ‘manure refinery’ to separate nutrients.

During discussion in Ottawa, synergies and overlaps between FA1, FA2 and LEAP (Livestock Environmental Assessment and Performance partnership) were noted. These will be addressed by close collaboration between these groups, e.g. on indicators of environmental status. It was also agreed to widen the scope of FA1 and FA2 to include socioeconomic factors and animal welfare.

More information about GASL, including presentations made in Ottawa, can be found at: [www.livestockdialogue.org](http://www.livestockdialogue.org). Members can find the IDF meeting notes can be found on the [IDF Intranet](#).

## BENEFITS OF DAIRYING

IDF’s ‘Benefits of Dairying’ project is an ongoing initiative to provide a pool of information covering three different chapters: the economic and nutritional importance of dairying, as well as how milk production can act as a key driver of sustainable rural development.

As one of the largest global agricultural industries, the dairy sector not only contributes to local, regional, and national economies, but also plays an important role in the sustainability of rural communities throughout the world. Find out more in these three factsheets – available on the [IDF website](#).



**Dairying and Sustainability of Rural Areas**

**Dairying and the Environment**

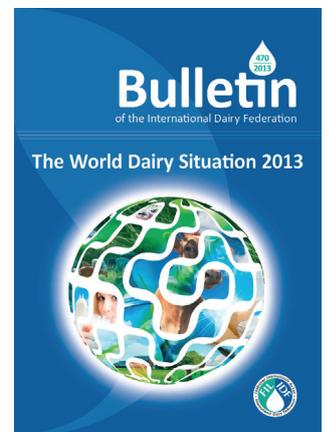
**Dairy's Contribution to Food Safety and Food Security**

## IDF PUBLICATIONS

### The World Dairy Situation 2013

This comprehensive report is considered an essential resource by the global dairy community. It investigates major developments, new trends, and the evolution of the demand for dairy products, as well as gathering statistics on production, consumption and trade in all regions of the world.

The editor of the World Dairy Situation 2013, Dr Adriaan Krijger, commented: *“Having a comprehensive understanding of global demand and supply trends, and the wide range of policy and economic factors that influence them, is essential for the both the industry and policy makers alike. The ‘World Dairy Situation’, produced annually by the IDF Standing Committee on Dairy Policies and Economics, is a major contribution toward that objective, as part of fulfilling the IDF’s mission to represent and support the dairy industry globally.”*



This publication is available from the [IDF Catalogue](#)

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**Global Dairy Expertise**