

OCTOBER - DECEMBER 2024

LIVESTOCK & POULTRY

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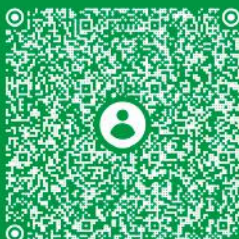
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ALMARAI SELECTS SIG AS STRATEGIC PARTNER FOR 5-YEAR EXPANSION PLAN

Almarai, the Middle East's leading dairy and food company, has selected SIG as a strategic partner for its five-year expansion plan aimed at strengthening market leadership and driving sustainable innovation.

Over the coming five years, SIG is set to support Almarai's objectives through flexible manufacturing solutions that align with their sustainability goals. The strategic alliance underscores a shared commitment to environmental responsibility, and the two companies are exploring new packaging innovations that will enhance Almarai's operational and geographical impact.

This move builds on two decades of successful partnership, during which Almarai and SIG have jointly pioneered product innovations and advanced packaging solutions

across the region. Together, they have set benchmarks in quality, adaptability, and environmental responsibility, enhancing Almarai's product portfolio and expanding its reach in key markets.

To commemorate their two-decade journey, Almarai and SIG are launching a campaign, "Pioneering Together for 20 Years," which will spotlight the strength and impact of their partnership. The campaign will highlight SIG's advanced packaging solutions, symbolizing the ongoing evolution of Almarai's product portfolio and underscoring the partnership's commitment to innovation for the region's consumers.

Throughout their long-standing partnership, Almarai and SIG have introduced pioneering products, including the first-to-market

150 ml portion packs for juice, which quickly resonated with consumers and later evolved into the highly popular 140 ml format.

In 2021 Almarai was the first to use SIG Asset Health Monitoring, a solution for condition-based maintenance, designed to measure the wear and tear of parts and equipment and provide online monitoring to anticipate issues, recommend preventative measures, and offer solutions to optimize availability and reduce unplanned downtime. Earlier in 2008, Almarai was the first to introduce a white cheese delicacy in carton packs from SIG. Through these efforts, Almarai has been able to reach diverse consumer segments, expanding its market footprint while ensuring product quality and maintaining the trust of millions of loyal customers.

PET CORNER INAUGURATES ITS 20TH RETAIL STORE IN THE UAE

Pet Corner is a family run pet store chain in the UAE for 20 years with locations in Dubai, Abu Dhabi, Sharjah and now in Fujairah marking the opening of its 20th store over a ribbon-cutting ceremony and tour of the store's product and services.

With 20 point of sale locations that are well stocked with Pet food and accessories for birds, cats, dogs, fish and reptiles, Pet Corner has the largest e-commerce platform with over 10,000 pet products and services like in

store pet grooming, mobile pet grooming, aquarium tank maintenance, pet taxi, relocation, pet sitting, pet insurance, pharmacy, and veterinary care.

UAE's pet industry is currently worth \$300 million and forecasts 500% growth by 2025. With a 30% increase in pet ownership during the pandemic, local players are optimistic. Growth in the Pet Industry is at a turning point, consumers have been responding to inflation in pet products just as they have in

other sectors. They are focused on sales, discounts, bargains and bundling to leverage their spend. As much as they love their pets, they are concerned about the economy, inflation, and job stability.

Sidarth Mahindra, Chief Pet Officer (CPO) said, "The humanization trend is still driving the desire to provide higher-quality food for pets. Pet owners are trending towards nutrition as they evolve on how to care for their pets."

'AL DAHRA – EGYPT' ANNOUNCES ITS STRATEGIC PLANS TO ENHANCE FOOD SECURITY AND SUPPORT THE LOCAL ECONOMY

'Al Dahra – Egypt', one of the largest and most innovative strategic investors in the sustainable agriculture sector, has announced its plans to bolster food security and support the local economy in Egypt. This announcement was made during a press conference where the company showcased its business scale and strategy aimed at producing and exporting high-quality food products and animal feed.

'Al Dahra – Egypt' owns 67,000 feddans with over 40,000 feddans of irrigated land, distributed across four farms in three strategic locations in Toshka, East Owinat, and Salheya. Additionally, the company owns

a 20MW solar power station. It produces a diverse range of essential crops, including wheat, sugar beets, corn, animal feed and citrus fruits, underscoring its pivotal role in supporting Egypt's food security.

The company has also successfully become the largest private-sector producer of wheat over the past three years. Since its inception, 'Al Dahra – Egypt' has slashed the import bill by over \$250 million, delivering 450,000 tons of wheat to government silos and producing more than 300,000 tons of corn and sugar beet. By exporting crops like citrus fruits to Europe and Southeast Asia, it not only bolsters the local economy but also helps meet

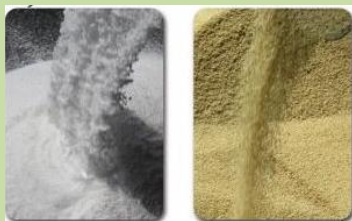
Egypt's foreign currency needs. This year, the company ranked among the top 10 producer/exporter of citrus in Egypt.

On this occasion, Eng. Raouf Tawfik, CEO of 'Al Dahra – Egypt', stated, "Our current strategy focuses on producing strategic crops, supporting exports, and adopting sustainable farming practices to achieve the highest productivity per acre. We have invested more than \$250 million, with a focus on land reclamation and the establishment of state-of-the-art sustainable agricultural projects. We will continue to invest to upgrading machinery, irrigation systems in addition to increasing our farmed land".

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DSM-FIRMENICH OPENS ANIMAL NUTRITION & HEALTH MANUFACTURING PLANT IN EGYPT



Formally inaugurated on 12 September 2024, the facility reflects the company's commitment to meet increasing demand from mid-range and large livestock farms and feed millers for premixes and innovative feed additives. The new production unit will serve customers in Egypt, the Middle East, Southern Europe and Africa. By enhancing supply reliability and delivering top-quality products, it will offer

dsm-firmenich's customers greater peace of mind—underscored by the firm's commitment to excellence.

The new facility, covering an area of 10,000 square meters, is equipped with modern infrastructure and advanced technology from Bühler Technologies, incorporating an integrated plant control system with bar coding. With an annual production capacity of 10,000 tons, the plant is designed to meet the highest standards of production

efficiency, food safety, quality, and environmental sustainability. It adheres to the highest international quality and safety standards applicable to specialty feed ingredients.

The plant will process a diverse range of specialized animal nutrition products, including vitamins, minerals, and innovative feed additives.

Strategically located in Sadat City, the facility offers excellent logistical advantages, ensuring efficient delivery to customers in the feed and animal protein sectors both domestically and internationally. This new plant, marking the 50th production facility in dsm-firmenich's global network, will strategically enhance the company's production capacity. It will enable dsm-firmenich to more effectively meet the needs of its expanding customer base while also fostering local economic growth.

LIFEWAY FOODS ANNOUNCES EXPANDED KEFIR AND FARMER CHEESE DISTRIBUTION DEAL IN UAE

Lifeway Foods, Inc., a leading U.S. manufacturer of kefir and fermented probiotic products, announced an expanded distribution agreement in the United Arab Emirates market. The offering of 32oz Lifeway Kefir, 8oz Lactose-Free Lifeway Kefir, ProBugs and farmer cheese, exported from the United States, is expected to begin shipping in the fourth quarter of 2024 and will become available in supermarkets and hypermarkets in Dubai and across the Emirates. The announcement was made by

Lifeway President and CEO Julie Smolyansky during the Gulfood Manufacturing trade show in Dubai on Nov 5-7, 2024.

"We are excited to further expand Lifeway's presence in the United Arab Emirates," said Lifeway President and CEO Julie Smolyansky. "As the leading kefir brand in the United States, we have the connections and capacity to scale items internationally when we see great opportunities. Our ProBugs kefir for kids and Farmer Cheese, often known internationally as Twaróg, will be

excellent companions on the shelf with our existing kefir items, our increased selection of core 32oz kefir and new 8oz Lactose-Free flavors. Trade is one of the best forms of diplomacy, and we look forward to doing our part as we provide probiotic Lifeway products with bioactive nutrients to consumers in more countries in the years to come."

According to Global Market Insights, the global kefir market is projected to grow at a CAGR of over 6.3% and reach \$4.9 billion USD by 2032.

THE 21ST SESSION OF THE ABU DHABI INTERNATIONAL HUNTING AND EQUESTRIAN EXHIBITION (ADIHEX) CONCLUDES AFTER RECORD VISITOR ATTENDANCE

Under the patronage of His Highness Sheikh Hamdan bin Zayed Al Nahyan, Ruler's Representative in Al Dhafra Region and Chairman of the Emirates Falconers' Club, the 21st edition of the Abu Dhabi International Hunting and Equestrian Exhibition (ADIHEX) has successfully concluded at ADNEC Centre Abu Dhabi. The largest edition in the exhibition's history since its first launch in 2003 was organised by ADNEC Group in strategic partnership with the Emirates Falconers' Club. Now established as a renowned global event, ADIHEX 2024 reaffirming its leading position as a celebration of heritage, culture, and the great outdoors.

Humaid Matar Al Dhaheri, Managing Director and CEO of ADNEC Group, said: "The 21st edition of the Abu Dhabi International Hunting and Equestrian Show was a landmark event that reinforced Abu Dhabi's position as a global centre for celebrating the cultural heritage associated with hunting and equestrianism. This year, we witnessed an immense turnout of participants, exhibitors and visitors that reflected a growing interest in preserving our local traditions while also continuing to innovate and embrace new developments."

Al Dhaheri thanked the wise leadership for their unlimited support that contributed to the

success of the current edition of the exhibition. He also thanked the many sponsors and partners from the public and private sectors that worked to make the event a success that befits the reputation and status of the Emirate of Abu Dhabi and the UAE at the regional and international levels.

Saad Al Hassani, Director of Abu Dhabi International Hunting and Equestrian Show, said: "We are proud of the success of this year's Abu Dhabi International Hunting and Equestrian Show and the wide participation of local and international exhibitors who showcased the authentic cultural heritage associated with the sport of hunting and equestrianism."

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HENDRIX GENETICS



TECNO PREPARES FOR GROWTH AND DEVELOPMENT WITH NEW OWNERSHIP

Tecno Poultry Equipment, a leader in housing systems for laying hens, is set for future growth and ready to support customers in the evolving egg industry. As part of the new Grain and Protein Technologies Group Tecno is positioned to execute a focused growth strategy.

The purchase of AGCO Grain & Protein by American Industrial Partners is now complete.

Tecno is investing in people, organization, partners and suppliers to better meet customer needs, which is fully supported by the new ownership. Tecno's extensive product range allows customers to find the right match to their business needs with innovative systems for high performance ensuring optimal egg quality and quantity.

- We are committed to

stand alongside our customers from the initial idea through installation and ongoing support to keep the systems running optimally.

Our Tecno Eggsperits and their high expertise are our most valuable resource which is why we've invested in growth and development of our people and organization. This investment strengthens our role as a trusted partner, enabling farmers to prioritize animal care while achieving strong business performance, explains Harry Luimes, President Tecno Poultry Equipment at Grain & Protein Technologies.

As demand for more sustainable, welfare-focused food production rises, Tecno is committed to innovative solutions that support



efficient and responsible egg production.

- We help customers to obtain the best possible outcome on their investments. With our setup we have improved and professionalized our internal processes so we can serve our customers in the most optimal way and help them to meet consumer needs and trends. The need for animal protein is growing and eggs are of both great dietary importance and an affordable and accessible source of protein, says Harry Luimes.

CEVA ANIMAL HEALTH EXPANDS GLOBAL PRODUCTION WITH NEW 7,000 M² VACCINE MANUFACTURING FACILITY

Ceva Animal Health (Ceva) – the #5th largest animal health global player, present in 110 countries, unveils its latest investment in European vaccine manufacturing, with the construction of a new facility in Hungary, expanding the capacity of Ceva Phylaxia.

Ceva Phylaxia, with over a century of expertise has been at the forefront of combating major livestock diseases through innovative research and vaccine development.

This development will establish a 7,000 m² plant in Monor, Hungary with the most advanced technologies, where Ceva will produce fermentation-based

multicomponent inactivated vaccines for animals.

For over 20 years, Ceva has been a strong advocate for prevention through vaccination, heavily investing in preventive medicine to significantly improve the health of husbandries but also to fight zoonotic and emerging diseases, contributing to prepare for future pandemics.

Today, 54% of Ceva's R&D budget is dedicated to vaccine development and the company already provides more than 50 vaccines to fight 19 zoonotic diseases.

Ceva is the most innovative animal health company in vaccine

technologies and one of the leading players on a global scale. Ceva is the first and only company to have developed a mRNA platform for animals in less than three years, the historical world leader in vector vaccines for poultry, and remains the world leader in broiler vaccination and #1 in hatchery vaccination. The company has also extensive global expertise in autogenous vaccines.

With this investment, it will further strengthen its position, producing more than 8 billion doses of vaccines in this new manufacturing plant annually, on top of other animal health products.

VOLAC WILMAR EXTENDS ITS PRODUCT RANGE WITH MEGA-FAT 70

Volac Wilmar Feed Ingredients has extended its range of rumen-protected fats with the launch of a new product formulation called Mega-Fat 70.

According to Dr Richard Kirkland, the company's Global Technical Manager, Mega-Fat 70 is a calcium salt formulation with 70% palmitic (C16:0) and 20% oleic (C18:1) fatty acids with specific benefits to both farmer and feed mill alike.

"The Megalac range of rumen-protected fats contains a range of calcium salt and high-melting point products in prilled form with differing concentrations of C16:0 and C18:1 fatty acids. The Mega-Fat 70 formulation falls in the middle of the portfolio,

offering the key benefits of the range in a single product," he explained.

"Aside from the direct energy supply from fat, the blend of fatty acids is the primary determinant of the type of response achieved when fat supplements are included in dairy diets. The two key fatty acids we are interested in for dairy fat supplements are palmitic and oleic acids. Palmitic acid is a very effective milk fat booster, whereas oleic acid is beneficial to improve body condition score, fertility and diet fat digestibility, which further increases energy supply, and different formulations can be targeted to meet particular

objectives on-farm," Dr Kirkland added.

Mega-Fat 70 is a concentrated source of C16:0 fatty acids to stimulate milk fat production, but retains 20% of the key C18:1 fatty acids to aid body condition, fertility and fat digestibility, to provide a more-balanced formulation suited for use throughout lactation.

Mega-Fat 70 offers a further research-based approach to fatty acid supplementation of dairy cows and a one-product solution across a lactation.

As a calcium salt formulation, Dr. Kirkland also said that Mega-Fat 70 offers distinct benefits to feed mills producing pellets with elevated concentrations of C16:0 fatty acids.

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VIV AFRICA 2024 CONCLUDES IN KIGALI WITH RECORD NUMBERS AND INDUSTRY ENGAGEMENT

With over 150 exhibitors from 35 countries and more than 1732 visitors from 60 countries, this year's edition broke new ground, underscoring the importance of Africa, with Rwanda in the epicenter, in the global agriculture and livestock value chain. The event featured 40 specialized sessions, practical workshops, and networking opportunities, catering to a growing industry that supports sustainable practices in the region.

Hosted at the Kigali Convention Centre from October 2-3, with a Leadership Conference

preceding on October 1, the event saw record-breaking attendance and engagement, underscoring its growing significance as a key platform for advancing the future of African animal protein production. Over the course of the trade show, industry professionals, thought leaders, local youth and innovators came together to exchange knowledge, build partnerships, and showcase the latest trends and developments in animal husbandry and agricultural scene.

VIV Africa 2024 saw strong participation from industry leaders, with over 200 key decision-makers from Africa and the global agri-food space attending

the event. The Leadership Conference, a major highlight of this year's program, featured presentations from over 50 thought leaders and facilitated important discussions on issues such as global expertise and local practice, investment opportunities, and sustainable solutions in future trends.

Keynote speakers included international experts, from organizations such as the Traide Foundation, the World Poultry Science Association, Rabobank from the Netherlands, Dutch Poultry Center, Dutch Greenhouse Delta the Global Dairy Farmers and more. These

sessions provided crucial insights into both the current state and future outlook of the African agricultural landscape, helping set strategic directions for industry attendees.



ORFFA: EXPANDING IN ASIA WITH SCIENCE DRIVEN INNOVATIONS IN ANIMAL NUTRITION

Founded in Belgium in 1967, Orffa has evolved from a distributor into a global leader in animal nutrition. We are now expanding our presence in Asia, focusing on delivering cutting-edge science driven feed additive solutions to enhance animal health, productivity, and sustainability.

Asia's dynamic market offers significant growth opportunities, and we are excited to announce the appointment of Ramakanta Nayak as our new Managing Director for the Asia-Pacific region. With his in-depth knowledge of the local market,

Ramakanta will spearhead our initiatives to provide science driven feed solutions that address the specific needs of Asian livestock producers.

Our three key Focus Areas:

- **Gut Health & Immunity:** A healthy gut is essential for thriving animals. Our solutions support a balanced gut microbiome, enhancing nutrient absorption, reducing pathogenic pressure, and boosting the immune system.
- **Feed Efficiency:** We offer innovative solutions to maximize feed utilization, helping to reduce

feed costs and promote more sustainable animal production.

- **Mineral Nutrition:** Our comprehensive mineral nutrition solutions are designed to ensure optimal animal health & performance.

Whether you're looking to enhance gut health, improve feed efficiency, or optimize mineral nutrition, we have the expertise and products to support your goals. Our local specialists are equipped to tackle a wide range of challenges specific to the region.

EVONIK CELEBRATES 50 YEARS OF METHIONINE PRODUCTION IN ANTWERP

As a gateway to the world, the Antwerp (Belgium) site has played a major role in Evonik's global methionine business for 50 years. Together with the Wesseling site in Germany, Antwerp now forms the European pillar of Evonik's global production network for MetAMINO® (DL-methionine), an essential amino acid used for animal feed. The specialty chemicals company used the anniversary as an opportunity to celebrate and an occasion to appeal

to EU policymakers.

"The global success story of MetAMINO® began in Antwerp. Key production standards were developed here which are the basis for our global asset hubs. Today, methionine is essential in modern animal husbandry, supporting sustainable animal protein production—whether it's poultry, eggs, or milk—helping to feed the global population," said Thomas Wessel, Chief Human Resources Officer and

Labor Director of Evonik.

To ensure a successful future for European production sites like Antwerp, Evonik's management is engaged with industrial policymakers. "Industry is the basis of our prosperity in Europe. If European production sites are to survive in the face of global competition, policymakers must ensure competitive framework conditions," said Johann-Caspar Gammelin, president of Evonik's Nutrition & Care division.

AL GHURAIR FOODS BREAKS GROUND ON CORN STARCH MANUFACTURING PLANT AT KEZAD

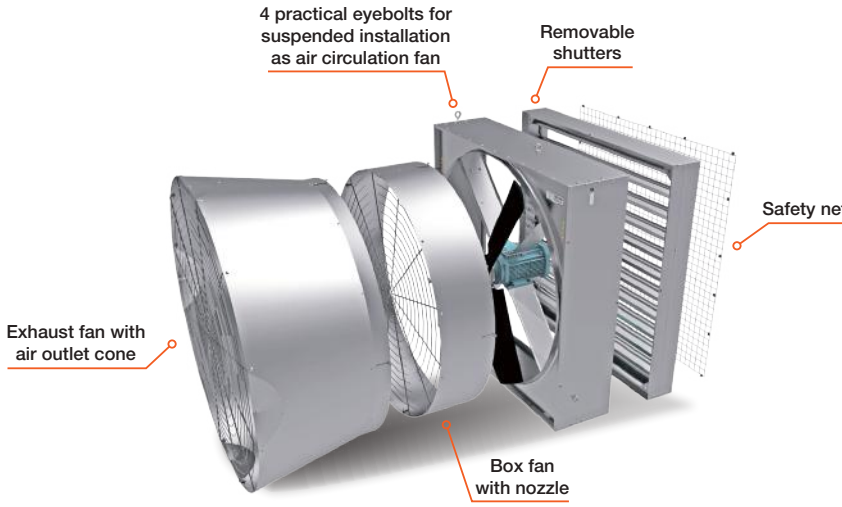
Al Ghurair Foods marked the groundbreaking of its new state-of-the-art Corn Starch Manufacturing Plant at Khalifa Economic Zones Abu Dhabi (KEZAD). This facility, a first of its kind in the region, represents a significant stride in enhancing local food production capacity and contributing to the UAE's National Strategy for Food Security.

Spanning a 13.6-hectare site in KEZAD Area A – Al Ma'mourah, this standalone facility is designed to serve both local and international markets. Equipped with advanced technologies, it will manufacture an array of products, including native and modified starches, glucose syrups, and maltodextrin, catering to diverse sectors such as food and beverages, pharmaceuticals, and various industrial applications.

Mohamed Al Khadar Al Ahmed, CEO of Khalifa Economic Zones Abu Dhabi - KEZAD Group, said, "KEZAD Group commends Al Ghurair on the groundbreaking of the Corn Starch Manufacturing plant.

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The diversity of infectious bursal disease virus (IBDV) strains worldwide poses a challenge to the poultry industry, but vector vaccines are helping producers successfully manage flock health, said Angela Hartman, PhD, research director, Zoetis. For background, very virulent IBDV (vvIBDV) strains have

been circulating globally for decades. However, in the United States, while high mortality can rarely occur, the bigger problem has been performance issues due to immune suppression caused by variant strains, she said.

Recently, more complex issues have arisen in the Asia-Pacific region, where live vaccine-virus strains have recombined with field strains, posing questions over continued vaccine efficacy. “In some of those cases, the vaccines aren’t able to work as effectively, because the epitopes needed for vaccine efficacy have changed where they have recombined. Unfortunately, we’re now actually seeing even additional

recombination of those isolates with very virulent strains,” Hartman said.

In the face of such field challenges, herpesvirus of turkey (HVT) vector vaccines may provide a solution. They bring several key advantages – including compatibility with both in ovo and subcutaneous application and the way the HVT vector replicates within the bird – to provide both early onset of immunity and lifelong protection in broilers, she said.

“Early protection is essential because IBDV tends to affect younger birds and is highly immunosuppressive,” Hartman said. “However, just as critical as early onset of immunity is, so is ensuring that we have protection against relevant contemporary IBDV challenges.”

NOVUS PARTNERING WITH BIOTECH COMPANY TO DEVELOP NEW FEED ADDITIVES

The leader in intelligent nutrition, Novus International, Inc., and Ginkgo Bioworks (NYSE: DNA), which is building the leading platform for cell programming and biosecurity, announced a partnership to develop advanced feed additives designed to meet the evolving needs of the animal agriculture industry. NOVUS will utilize Ginkgo Enzyme Services to build more efficient enzymes that can be produced cost-effectively.

With the agricultural sector facing heightened volatility, including rising feed costs and tightening margins, NOVUS is committed to supporting its customers by optimizing the health

and performance of livestock. The partnership aims to bring cutting-edge technologies to market, enhancing the sustainability and efficiency of animal production systems. These innovations are intended to improve the overall well-being of chickens, pigs, and cows, thereby supporting producers in delivering nutritious and affordable animal products to consumers.

“With the challenges and volatility facing the agriculture industry, a multifactorial approach is needed for producers to meet their financial goals and end customers to continue to enjoy nutritious and affordable meat,

milk, and eggs,” says Abishek Shingote, NOVUS Associate VP of Global Strategic Marketing, Technology and Innovation. “This multifactorial approach requires advanced technologies combined with application knowledge. The partnership with Ginkgo Bioworks puts NOVUS on the path to create new technologies that support health and performance consistency in chickens, pigs, and cows.”

Shingote said the products NOVUS and Ginkgo Bioworks are working to develop came out of conversations with NOVUS customers and deep analysis of industry needs.

FAO EXPANDS CAPACITY FOR ANIMAL DISEASE SURVEILLANCE AND REPORTING IN IRAQ WITH EMA-I AND EMPRES-I+ PLATFORMS

The Food and Agriculture Organization of the United Nations (FAO) in Iraq, in collaboration with Iraq's Ministry of Agriculture (MoA), the Ministry of Agriculture and Water Resources (MoAWR-KRG), the Ministry of Health (federal and Kurdistan Regional Government), and the Veterinary Syndicate, conducted two consecutive Training of Trainers (ToT) workshops in Erbil from 7 to 15 October 2024.

These workshops aimed to bolster Iraq's animal disease surveillance and reporting systems by introducing the Event Mobile Application (EMA-i) and EMPRES-i+ platforms to veterinary professionals from across Iraq.

The two ToT workshops were conducted under the project entitled "Strengthening Iraq Veterinary Legislation and Expanding Delivery of Animal Health Services and

Disease Surveillance," funded by the (DTRA), which aimed to enhance Iraq's veterinary and disease surveillance systems. The workshops accommodated 65 veterinary professionals. The first workshop, held from 7-10 October 2024, involved 33 participants from six governorates: Erbil, Sulaymaniyah, Kirkuk, Diyala, Salahuddin, and Baghdad.

NUQO EXPANDS TEAM IN SOUTH ASIA BY WELCOMING REENA RANI AS HEAD OF MARKETING, SOUTH ASIA

NUQO Animal Nutrition India Pvt. Ltd., a leader in innovative animal nutrition solutions, is excited to announce the appointment of Reena Rani as Head of Marketing, South Asia. In this role, Reena will oversee all marketing functions and will lead strategies & key initiatives of NUQO in the South Asia region and will be driving growth and engagement across key markets.

Reena brings over 12 years of extensive experience in marketing. Campaigns, pricing strategy, digital marketing, content creation, social media strategy, branding, marketing communication, and business analytics are her core strengths. Her deep expertise spans across top industry players such as Cargill and Novus, where she developed and implemented marketing programs that delivered measurable success.

With a strong academic background, Reena holds a master's degree in industrial chemistry and an advanced Diploma in Digital Marketing and Analytics from the prestigious Indian Institute of Management, Kozhikode (IIMK).



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VIV ASIA 2025 VISITOR REGISTRATION NOW OPEN – THE PREMIER EVENT FOR THE ANIMAL PROTEIN PRODUCTION INDUSTRY

VIV Asia, the world's leading event for the animal protein production industry, announces that visitor registration for the 2025 edition is now open. Set to take place from March 12–14, 2025, at the IMPACT Exhibition and Convention Center in Bangkok, in co-location with MeatPro Asia, and HortiAgriNext Asia 2025, this highly anticipated event

promises an expanded and dynamic experience for its global crowd.

This year, VIV Asia 2025 has expanded into new halls, right across Challenger 1,2 and 3 and will be complemented by the first edition of Horti Agri Next Asia, next to a Features Hall and a dedicated Hall for the CropTech- FeedTech sector.

The 2025 edition will highlight two major themes driving the future

of the industry – Regenerative Agriculture and Animal Disease Management. Regenerative Agriculture is increasingly vital as the industry seeks sustainable and eco-friendly farming practices that promote soil health, biodiversity, and long-term productivity. Animal Disease Management remains a top priority, with a focus on preventing and controlling outbreaks to ensure the health

and safety of livestock populations globally. Attendees will have the opportunity to explore cutting-edge solutions in these areas, participate in dedicated sessions, and network with leading experts.



AGROCARES AND TROUW NUTRITION EXTEND MOBILE NIR FEED TESTING PARTNERSHIP

As emerging technologies and advances in animal nutrition bring more precision to livestock production, AgroCares and Trouw Nutrition, Nutreco's livestock feed business, are pleased to announce the renewal of their NutriOpt On-site Adviser agreement. Launched in 2018 and subsequently enhanced with species-specific knowledge, NutriOpt On-site Adviser is an easy-to-use mobile resource that provides fast, reliable data to inform nutrient and quality assurance decisions.

The collaboration pairs Trouw Nutrition's institutional knowledge and nutrient database with AgroCares' proprietary portable NIR scanner technology. By leveraging each partner's

expertise, the collaboration aims to provide real-time, comprehensive nutritional insights that can directly benefit farms' and feed mills' operational efficiencies, economics and sustainability efforts.

Leveraging Trouw Nutrition's extensive nutrient knowledge and database, the NutriOpt On-Site Adviser can assess raw ingredients and finished feed for a specific species in less than five minutes. Species-specific nutrients are available for swine, ruminants, and poultry. New hardware developed and manufactured by AgroCares empowers farmers and feed producers to apply the nutrient profile of raw materials, silages and complete feed to make

species-specific decisions.

Remarking on the continued partnership, Casper Niesink, Director Global Solutions and Services at Trouw Nutrition stated, "We are excited to continue our partnership with AgroCares, whose technology has been instrumental in delivering the precision and reliability our customers expect. Our joint efforts have already made significant impacts in the industry to date, and we are committed to driving further innovations that benefit both our customers and the planet," he stated. "We are convinced that our species focused knowledge/ingredient profile offers the opportunity to further boost precision nutrition."

DLG LAUNCHES DAIRY EXHIBITION IN THE US; DLG NORTH AMERICA STARTS OPERATION

DLG (German Agricultural Society) has announced the launch of "ADX – American Dairy XPO", a new trade show aimed at dairy producers from the United States (US) and Canada that combines exhibition with practical farming know-how. Set to debut on November 5-6, 2025 at the Champlain Valley Exposition Center in Burlington, Vermont, the ADX – American Dairy XPO is presented

by the DLG (German Agricultural Society), the organizer of both the Canadian Dairy XPO (CDX) and the Germany-based EuroTier, an international trade fair for livestock technologies.

Drawing on the success of CDX, Canada's largest dairy trade fair attracting 17,000 visitors and 350 exhibitors annually, the ADX–The American Dairy XPO will showcase

the latest advancements from regional and global companies supplying dairy technology, equipment, and management practices for American dairy producers.

"The vision for ADX – American Dairy XPO is driven by the need for concentrated knowledge of the full array of specialized products and services for the dynamic US dairy."

BRENTAG SPECIALTIES EXPANDS VALUE-ADDED SERVICES CAPACITY FOR ANIMAL NUTRITION IN WESTERN EUROPE

Brenntag, the global market leader in chemicals and ingredients distribution, announced the opening of a new facility for Animal Nutrition solution products. The production includes Animal Nutrition products based on 'Neubacid Soft' technology, allowing feed producers to no longer have to compromise between safety and efficacy but helping animal performance and fitting in non-antibiotic diets.

The state-of-the-art facility was completed in July 2024 and started full-scale operations in September. The site in Mouscron is in a strategically valuable geographical location: logistically well connected - close to ports and highways - and close to the customers, in the heart of the region to be supplied. While mixing and blending capabilities have now been consolidated in Mouscron, the site in Grez-en-Bouère, France, will also continue to operate as a central storage hub for the French Animal Nutrition sector.

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AL ISLAMI FOODS EXPANDS OFFERINGS WITH THE LAUNCH OF PROCESSED FOOD RANGE IN QATAR

Al Islami Foods, a UAE pioneer in the wholesome food products sector and a global leader in halal poultry and meat products, which are hand slaughtered and never stunned, announced the launch of its extensive processed food range in Qatar. Crafted with meticulous attention to quality and taste, this range includes an irresistible selection of items such as Burgers, Nuggets, Franks, Kebab, Zing, Mince and much more, aimed at redefining convenient cooking for busy households and individuals.

The introduction of this new processed food range in Qatar is a testament to the brand's unwavering commitment to meeting the evolving needs of consumers in the region. The brand's ready-to-cook processed meat

products feature variety of flavours, and are sourced from farms where the authentic halal process of no-stunning and hand slaughtering is rigorously followed.

Al Islami's processed food range is meticulously prepared to deliver unparalleled convenience without compromising on taste or nutritional value. Ideally suited for the fast-paced lifestyles of modern households, these products are designed to transform the way individuals experience and savour their meals.

"At Al Islami Foods, we are committed to redefining convenience, the halal food concept globally and the nutritious cooking while upholding the highest standards of halal integrity, and we take pride in our commitment to authenticity



and quality. The launch of our new processed food range in Qatar brings together the finest ingredients, promising the best taste and has the highest standards of halal certification. For us, food is not just a meal, food is a blessing" commented Mr. Zubair Ahmad, the Marketing Director of Al Islami Foods.

A leader in Halal Foods for five decades, Al Islami Foods is an Emirati brand with an unrivalled global presence that embodies the principles of quality and innovation.

JOHN DEERE AND DELAVAL LAUNCH GROUNDBREAKING MILK SUSTAINABILITY CENTER

John Deere and DeLaval have launched the Milk Sustainability Center, an innovative digital ecosystem designed to enhance the efficiency and sustainability of dairy farming operations. With the dairy industry facing evolving sustainability standards and stricter regulations, the Milk Sustainability Center can integrate data on crop and animal performance into one unified platform.

Developed through a joint effort initiated in September 2023, the Milk Sustainability Center data empowers farmers to optimise their operations,

reduce their environmental impact, and continue to meet the growing demands for sustainable practices in dairy farming.

Dairy farmers can use the Milk Sustainability Center to monitor nutrient use efficiency and carbon dioxide equivalent across their farm, herd and fields. It collects animal and crop data, providing insights to help farmers manage nutrient utilisation effectively and reduce the need for manual data input. Farmers can also invite their consultants, dealers, vets and other partners to access the

platform.

The Milk Sustainability Center is designed to serve dairy farmers regardless of the brand of farm machinery, milking equipment or herd management software. It is now available as a free version to a select number of dairy farmers in the USA, Netherlands, and Germany, with plans to expand to other European countries soon. Users will be added steadily before the full release. Dairy farmers in the UK and Ireland can join the waiting list at www.milksustainabilitycenter.com to be among the first to benefit.

ZINPRO ISOFORM WINS SILVER MEDAL AT EUROTIER INNOVATION AWARDS

Zinpro® Corporation, the world's leading innovator and manufacturer of performance trace minerals and animal nutrition solutions, is proud to announce that its dairy product, Zinpro® IsoFerm®, has been awarded the Silver Medal at the prestigious EuroTier Innovation Awards.

The EuroTier Innovation Awards recognize the most innovative

products in the animal livestock and management industry. The Silver Medal is awarded to products that demonstrate significant improvements in functionality, efficiency and sustainability. Zinpro IsoFerm was recognized for its groundbreaking approach to enhancing animal nutrition and performance.

"We are honored to receive this

recognition from EuroTier," said Justin Howes, Ruminant Senior Global Marketing Manager at Zinpro. "Zinpro IsoFerm represents our commitment to advancing animal performance by pioneering technology that is reshaping dairy nutrition. This award is a testament to the hard work and dedication of our team."

MUNTERS ACQUIRES HOTRACO AND STRENGTHENS ITS POSITION IN EUROPE

Munters has signed an agreement to acquire Hotraco (NL), a leading developer of control systems and sensors for the agricultural sector, strengthening Munters FoodTech portfolio. It marks another step in the strategy to create a digital ecosystem built around data capture platforms and software that supports a more efficient and sustainable food production.

Hotraco is a leading provider of premium controllers and systems for automation, targeting the global agricultural technology industry mainly within poultry, layer and greenhouses. In addition, Hotraco provides solutions for crops storage, expanding Munters offering within the food supply value chain to a new segment.

"The acquisition is fully in line with our digital strategy for FoodTech and Munters continued M&A agenda. It is a perfect complement to our market leading offer. I am delighted to welcome Hotraco employees to the Munters family, says Klas Forsström, President and CEO of Munters.

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MEYN CELEBRATES 65 YEARS OF INNOVATION IN POULTRY PROCESSING



On September 9, 2024, Meyn, a global leader in poultry processing solutions, proudly celebrated its 65th anniversary. Since its founding in 1959, Meyn has consistently pushed

the boundaries of innovation, revolutionizing the poultry processing industry with cutting-edge technologies and solutions.

For over six decades, Meyn has been at the forefront of the industry, introducing game-changing innovations such as the Apollo 4, the Maestro, and the Rapid Plus. These products have not only set new standards in efficiency and quality but have also solidified Meyn's reputation as a pioneer in

poultry processing.

"Our 65th anniversary is a testament to the hard work, dedication, and creativity of our entire team," said Joost Weel, CEO of Meyn. "We are proud of our past achievements and are excited to continue driving innovation as we look to the future."

As Meyn celebrates this significant milestone, the company is constantly looking to the future, with upcoming product launches in 2025 and beyond. Meyn's commitment to innovation continues to pave the way for the next 65 years of success in the poultry processing industry.

CAL-MAINE FOODS, INC. ANNOUNCES EXPANSION PLANS FOR ADDITIONAL CAGE-FREE PRODUCTION CAPABILITIES

Cal-Maine Foods, Inc. (NASDAQ: CALM) recently announced that on October 4, 2024, its Board of Directors approved \$40 million in new capital projects to further expand the Company's cage-free production capabilities. The Company plans to fund the projects through a combination of available cash on hand, sales of investment securities and operating cash flow.

The projects will include the addition of five new cage-free layer houses across the Company's locations in Florida, Georgia, Utah and Texas. The Company plans to start construction by the end of calendar 2024 and expects the projects to be completed with additional production capacity for approximately 1.0 million cage-free layer hens by late summer 2025. These additions will

primarily replace recently retired caged facilities and add to the Company's cage-free capacity.

The Company also provided an update on its conversion of the former Tyson Foods facilities in Dexter, Missouri, acquired on March 14, 2024. Following the closing, the Company began work to remodel and repurpose these assets for use in shell egg production. Cal-Maine Foods has also been working with local contract growers and has commitments that would result in approximately 1.2 million additional free-range hens by fall 2025, with plans to add more capacity in the future.

Sherman Miller, president and chief executive officer of Cal-Maine Foods, Inc., said, "We are pleased to announce these new expansion projects, which support

our strategy to increase our free-range production in line with customer demand and expanding state requirements for cage-free eggs. The additional capacity will further enhance our ability to serve our growing customer base. We have made considerable progress with the conversion of the Dexter facilities and look forward to the additional production and distribution capabilities from this location.

We greatly appreciate the support we have received from the existing network of local contract growers. As we continue to expand our operations, we remain committed to being the most efficient and sustainable producer of fresh shell eggs and egg products, and we will look for additional opportunities to further advance our growth strategy."

SPACE 2024: INTERNATIONAL FARMING BEACONS FROM RENNES

SPACE 2024 took place from Tuesday 17 to Thursday 19 September at the Parc-Expo in Rennes, France. This highly successful global scale 38th edition of SPACE was carried out under a radiant sun and in a highly constructive environment.

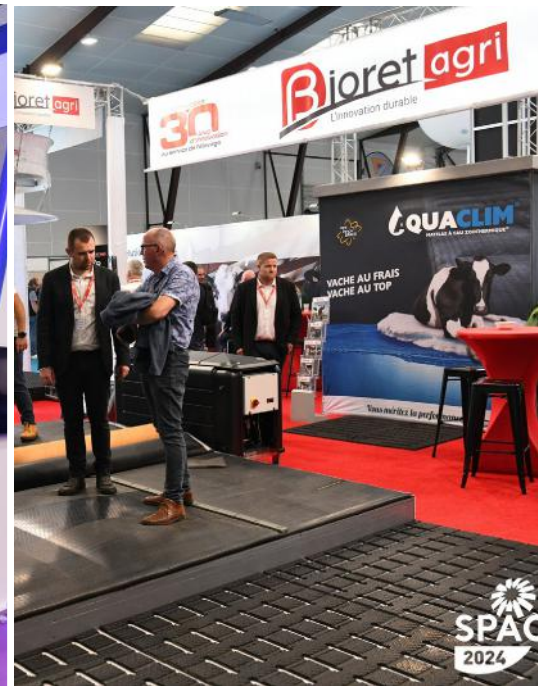
The 1210 exhibitors present, including 370 international from 37 countries welcomed 101,757 visitors (+12% compared to 2023) out of which 12,534 international from 120 countries. This record attendance on the three days of exhibition reflects the exceptional density of this edition.

This 2024 SPACE generated high-quality exchanges thanks to a favourable economic conjuncture in the Western farming sectors. According to exhibitors, visitors came to meet them with many projects. All stressed the high quality of exchanges and the development prospects for agriculture that they allow to be envisaged. Many visitors, both French and foreign, came to SPACE looking for suppliers and advice that will enable them to make our agriculture ever more efficient and sustainable in order to meet the global food challenge.

SPACE 2025 edition will take place from Tuesday 16 to Thursday 18 September at the Rennes Parc-Expo, in France



SPACE
2024



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2024



OBER-DECEMBER 2023

LIVESTOCK & POULTRY ME



THE SYMBOLIC GLASS CEILING OF 120,000 VISITORS BROKEN



Upon closing its doors on the final day, it was apparent that the SOMMET DE L'ÉLEVAGE (LIVESTOCK SUMMIT) in Clermont-Ferrand (France) had once again smashed its visitor numbers record. With over 120,000 visitors, the show has further confirmed its position as the World's number 1 sustainable livestock farming event.

It's a significant achievement for the show's organisers considering the livestock health issues and inclement weather encountered before and during the event.

This 33rd edition of the SOMMET DE L'ÉLEVAGE played host to several frontline politicians, including the newly appointed French Prime Minister Michel Barnier who chose the SOMMET as his first major public visit. He was accompanied by Annie Genevard,

the new Minister of Agriculture, present at the show on 2 consecutive days, and Antoine Armand, the Finance Minister. The Prime Minister seized the opportunity to make several announcements of support for the farming industry.

"It's a huge recognition of our event and demonstrates Michel Barnier's esteem for agriculture in general and the livestock industry in particular", as commented Jacques Chazalet, SOMMET DE L'ÉLEVAGE President.

"It was an excellent show with a 20% increase in foreign visitors" confirmed Benoît Delaloy, the SOMMET's International Manager. With over 6,000 international visitors, 2/3rds of whom were farmers goes to prove that the SOMMET DE L'ÉLEVAGE

is recognised as one of Europe's major agri-livestock shows.

Over 4 days, visitors can discover the cream of French livestock farming, whether that be genetics, new products or farm machinery, and all that in one single place.

Other highlights for foreign visitors included a programme of 30 farm and agro-industrial sites visits and the International Gala Evening that sees all breeds present at the show paraded, with live commentary, in the Zenith arena. Conferences for international visitors were conducted in English, Spanish and Russian.

In 2025, the SOMMET will host the CHAROLAIS & SIMMENTAL breeds National Championships. The show dates are 7, 8, 9 & 10 October 2025.

RECORD VISITOR NUMBERS ECHO THE SUCCESS OF SAUDI AGRICULTURE 2024 AND THE SAUDI ARABIAN AGRICULTURAL INDUSTRY



Saudi Agriculture 2024, the exhibition for the agricultural sector concluded on Thursday 24th October 2024 on a high note. The exhibition in Riyadh, recorded an unprecedented turnout of 27,773 visitors. The exhibition consolidated its position as the largest event in the agricultural sector in the Middle East.

The exhibition, held under the patronage of the Ministry of Environment, Water and Agriculture at the Riyadh International Convention and Exhibition Centre, kicked off on 21st October. It featured over 370 companies from 29 countries. With the enormity of the Saudi Arabian agricultural industry and its exceptional growth that will reach over \$31 Billion by the end of 2024, \$70 Billion in government and private investment is driving the transformation of the sector.

There was little surprise that

the exhibition created a new record in attendance by both local and foreign visitors and exhibitors. The event reflected the importance of the largest agricultural industry in the Middle East, with the 41st edition of Saudi Agriculture as its hub.

Saudi Agricultural 2024, saw the signing of multiple agreements with local and foreign investors and organisations. These were aimed at knowledge transfer, investment in new technologies, water and food security measures and on creating partnerships that will enhance the transformation and the development of low-carbon sustainable agricultural solutions.

The 42nd edition of Saudi Agriculture will be held from 20th – 23rd October 2025 at the Riyadh International Convention and Exhibition Centre, Riyadh, Saudi Arabia.



EUROTIER 2024: WORLD LEADING TRADE FAIR SUCCESSFULLY POWERS THE LIVESTOCK INDUSTRY

The EuroTier and EnergyDecentral 2024 trade fairs that took place in Hanover, Germany, 12-15 November, have made a strong impression, providing relevant key drivers for business in the global livestock farming and energy sectors. A powerhouse of innovations at the highest level, the world's leading

trade fair for professional livestock farming and the leading trade fair for decentralized energy, played host to 2,193 exhibitors from 51 countries with the latest solutions and technologies for the livestock and the renewable energy sector. Some 120,000 investment-ready visitors from 149 countries took advantage of the



international industry meeting place, underlining the leading role of both trade fairs for animal welfare, sustainability, digitalization and AI. The trade fairs offered more than 500 professional events and conferences. Exhibitors and visitors expressed high satisfaction.

Under the guiding theme “We innovate animal farming”, EuroTier 2024 provided strong drivers for the national and international livestock farming industry. With its broad exhibition and technical program, the DLG (German Agricultural Society) as organizer presented technical innovations that combine productivity, animal welfare and sustainability - from digitalization, robotics and AI to modern solutions for animal housing and health management.

Complementing EuroTier, EnergyDecentral offered technologies relating to solar energy, biogas and biofuels, while the new “Inhouse

Farming - Feed & Food Show” highlighted new approaches in feed and food production.

“EuroTier and EnergyDecentral 2024 have impressively demonstrated how the drive for innovation and productivity can go hand in hand. Here in Hanover, we have seen an array of forward-looking solutions for animal husbandry and renewable energies that promote competitiveness, on the one hand, and animal welfare and sustainability, on the other. In times of global challenges, this year’s trade fairs have proven that the industry is making the right adjustments and that our exhibitors have the right answers to the entrepreneurial challenges facing the industry,” says Freya von Czettritz, CEO of DLG Holding GmbH.

High level of satisfaction among trade visitors from Germany and abroad

“Visitors were extremely satisfied with the range of exhibits and the technical program at EuroTier, EnergyDecentral and Inhouse Farming Feed & Food Show and the specialist topics. This was confirmed by 95 percent in the on-site visitor survey. Particular interest was noted in the topics of management and feeding technology, milking and cooling technology, animal housing and hall construction, feed and genetics as well as current offers for decentralized energy production and alternative feed and

food production,” said Ines Rathke, Project Manager of EuroTier.

Some 42 percent of visitors came from outside Germany, including many from Austria, Belgium, China, Italy, Netherlands, France, Poland, Spain, Switzerland and Turkey. Buyer groups from the Middle east and Asia looking for technical solutions were also noted. More than 60 registered delegations included representatives from Canada; Iceland; Mexico; Thailand; Ukraine; and the UK. Representatives from governments and agricultural ministries were also in attendance: The agricultural ministries of the Philippines; Moldova; the State of Nebraska; UK; and Vietnam among others. In addition, 600 journalists from 46 countries used EuroTier and Energy Decentral to explore the latest trends and innovations.

The proportion of international exhibitors increased compared to the previous event and amounted to around 65 percent. The total number of exhibiting companies has increased by 25 percent compared to the last event. After Germany, most exhibitors came from China, the Netherlands, France, Italy, Spain, Turkey, Denmark, Belgium and the UK. Exhibitors from the Arab region, such as Egypt, Morocco and Algeria, in addition to India were also represented. The number of international pavilions also increased. This year, 25 national pavilions were represented at EuroTier 2024 from three continents, including Bulgaria, Canada, China, Croatia Finland France Spain, US and the UK. 37 start-ups from 16 countries presented their innovative concepts and inventions at EuroTier.

The next EuroTier, EnergyDecentral and Inhouse Farming Feed & Food Show will take place in Hanover, Germany, from November 10 to 13, 2026. Already now, more than 700 companies have already registered as exhibitors for the next event.

POULTRY FARMING IN SAUDI ARABIA: TRENDS AND DEVELOPMENTS IN 2024

By:

Mathews Mathew, Editor

Poultry farming is a key component of Saudi Arabia's agricultural sector, playing a crucial role in the Kingdom's push towards food security and economic diversification as part of the Vision 2030 initiative. By focusing on reducing reliance

on imports and boosting local food production, Saudi Arabia is making significant strides in modernizing its poultry industry. In 2024, the industry has seen notable advancements driven by new technologies, sustainability initiatives, and government policies.

Growth of the Poultry Sector

The growth of the poultry industry in Saudi Arabia has been substantial over the last decade, and 2024 is no exception. According to the Ministry of Environment, Water, and Agriculture (MEWA),



Saudi Arabia produced over 900,000 metric tons of poultry meat in 2023, with further growth projected for 2024. This expansion is vital in meeting the demands of the Kingdom's growing population, where chicken remains a staple protein source.

In line with Vision 2030, Saudi Arabia aims to achieve 80% self-sufficiency in poultry production by 2025, up from approximately 70% in 2023. The government's support through subsidies, infrastructure development, and partnerships with private companies has been pivotal in driving this growth. A combination of modern farming practices and significant investments is helping Saudi poultry farmers enhance productivity while addressing the challenges of a rapidly growing market.

Technological Advancements

In 2024, the most significant trends in Saudi poultry farming are centered around technology and automation. Precision agriculture tools and smart farming practices are revolutionizing poultry production. These technologies help reduce labor costs, increase operational efficiency, and improve overall animal welfare.

The integration of artificial intelligence (AI) and the Internet of Things (IoT) in poultry farming allows real-time monitoring of flock health, feed consumption, and environmental conditions. These innovations enable

farmers to quickly identify health issues, optimize feed and water usage, and maintain ideal living conditions for the birds. Furthermore, automated feeding and climate control systems in smart poultry houses ensure efficient resource use, aligning with the Kingdom's sustainability goals.

Sustainability and Animal Welfare

Sustainability is a growing focus within Saudi Arabia's poultry sector in 2024, driven by both global environmental concerns and local policy shifts. Waste management is becoming a central issue, with many farms adopting recycling and bioconversion technologies that transform waste into organic fertilizers or energy. These circular economy practices help reduce the environmental footprint of poultry farms.

Animal welfare is also receiving increased attention. In 2024, Saudi poultry farmers have taken steps to adhere to higher welfare standards, including better space allocation, ventilation, and biosecurity measures to limit the use of antibiotics. These initiatives are supported by the government's efforts to implement stricter regulations aligned with international animal welfare guidelines.

Government Support and International Partnerships

Government support continues to be a cornerstone of the poultry industry's success.

In 2024, Saudi Arabia is maintaining subsidies for feed, biosecurity measures, and modern equipment. The Agricultural Development Fund has been instrumental in financing technological upgrades across the sector, helping farmers increase production efficiency.

International partnerships are also driving growth. Companies like Tyson Foods and BRF have invested in Saudi poultry firms, bringing in expertise, technology, and capital to support local production. These partnerships are crucial in helping Saudi Arabia meet its Vision 2030 goals and positioning the country as a key player in the regional poultry market.

Conclusion

In 2024, poultry farming in Saudi Arabia is poised for continued growth and innovation. With strong government support, technological advancements, and a focus on sustainability, the industry is adapting to the challenges of the modern agricultural landscape.

As the Kingdom advances towards its Vision 2030 goals, poultry farming will remain a vital part of its strategy for achieving food security and economic diversification. Saudi farmers, supported by cutting-edge technology and government initiatives, are well-positioned to meet both domestic and international demand, ensuring the industry's sustainability for years to come.



THE GENETIC POTENTIAL EXPLAINED

By: Teun van de Braak,
*Manager of Global Technical
 Service and Customer Support,
 Hendrix Genetics Layers*

It is no secret that different opinions exist when it is about breeding and selecting chicken breeds for egg production. The strategy of Hendrix Genetics has always been to select for the highest number of first quality eggs produced for each hen that gets housed. With a clear focus on animal welfare and sustainability.

This strategy fits perfectly with our philosophy that laying hens that can maintain their egg production at acceptable levels at older age (i.e. egg laying persistency) can only do that because their physical condition allow the hens to do so. A better condition of the laying hen is associated with better animal welfare. Better livability is the result of selecting for improved animal welfare and bird behavior. This improved livability results in more eggs for each hen housed than ever before! As we select in a balanced

way, we also select on feed intake and feed conversion, and of course not to forget the quality of the eggs, both from the inside as the outside, as the egg is often the only part of the entire egg production chain that's seen by the consumer. Many opinions exist on the definition of sustainability, but we are confident that our breeding approach results in the most sustainable egg laying chickens around the globe.

More eggs, higher total egg mass, better feed efficiency

More eggs produced per hen housed, will quickly result in higher egg mass per hen housed. This is also true for the chicken breeds that produce on average eggs with a smaller egg size. Therefore, it is important to remember: 1 egg less produced per hen housed is the equivalent to more than 60 days of egg production with a 1-gram difference between breeds! Selecting for more eggs per hen housed quickly becomes beneficial to egg producers, even when their chicken breeds are producing somewhat

smaller eggs. Managing your flock towards egg laying persistency and choosing the more persistent chicken breeds will quickly help to add up in the total egg mass produced per hen housed. So, whether you are selling your eggs by piece, or by mass, choosing the right genetics will make money to your business. In our breeding program we select laying hens that produce more eggs, but that can keep their feed intake constant. Higher egg mass output, combined with flat feed intake curves, result in more efficient laying hens, as the feed required to produce an egg will drop. When keeping flocks longer productive, the feed efficiency of the flock is improved as the feed cost of the rearing period can be diluted over more eggs produced during the longer lifetime of the laying hens.

Focus on livability

Mortality not only comes at a big cost, but also has its impact on the motivation and mood of egg producers. Not a single egg

producer likes it to collect and remove dead chickens from their barns. Our breeding mission is clear: to select against mortality, or vice versa, to select for improved livability. Despite the given that we are dealing with low heritable traits we have clearly made fantastic progress during the past decades of selecting our laying hen breeds. Selection for livability is clearly reflected in the breeding goal, as we have based our entire selection program on the results per hen housed. Everything is calculated back to the initial number of chicks placed (rearing period), or hens housed (production period). As they come at a high expense for pullet growers and egg producers, it is key to focus on the chicks, the laying hens, and their overall wellbeing.

It is about quality that counts

Breeding for the highest amount of first quality eggs per hen housed is key in our breeding program. Quality hens are key when it is about producing the best quality eggs. Next to breeding for robust laying hens of good quality, intensive selection is being made on egg quality, both internal and external. We should never forget that in the end, it is only the egg that the consumer encounters. Eggs often need to travel quite some time before they end up on the consumers' plate. Selecting for eggs that maintain their quality all the way till the end is there for essential. Recent innovations and developments in egg phenotyping have resulted in more accurate data that is being used in the selection of laying hens for future generations. This improved data allows for more genetic progress in egg quality, as it is quality that counts!

Flattening the curve

Selection for better egg laying

persistence, improved chicken livability, or more persistent egg quality, it is all about flattening the curves, to prevent them from going down too quickly. In the breeding program we monitor the performance of the individual selection candidates and their offspring on a continuous level. This will allow us to have the full overview of performance and enable us to identify the best chickens with the optimal curves. By selecting these laying hens, we create a solid base for the future generations of laying hens.

Making use of the best genetics in your farm

All the text above is about the things we do to breed chickens that have a good production for a long

time. As you have just read, we have selected for a long time on different characteristics that make the management of your birds easy, like a good livability and a stable egg size. Good circumstances in the farm will contribute to these good genes. That is why we have explained the things you can do to optimize your management for a long and profitable laying cycle.

It all starts during the rearing period

Well begun is half done, an old saying which also is true for egg producers as a good quality pullet helps to reach the targets set for the productive life of laying hens. The pullet rearer has about 17 weeks to develop this tiny day-old chick into a ready to lay laying



hen. The productive life of a laying hen has increased drastically over the past decades and because of balanced genetic selection this is still increasing 1 week with every new flock that enters the poultry house. Keeping laying hens all the way up to 100 weeks of age without molting is no longer exceptional, it is not the global standard yet, but more and more proven results are clearly there. A good quality pullet is essential to get the best out of your flock, in this technical paper we aim to describe some of the main objectives and targets to be reached during the rearing period.

The rearing period is of major importance for the performance of the flock later in life. The productivity of a flock depends to a large extent on the successful attainment of bodyweight targets from an early age. Also egg size profiles during lay and the feather cover during the productive period are influenced by the development of the pullets. During first weeks in rearing, management should focus on rapid and steady chick growth while the second half of the rearing period is the right time to work on developing feed intake capacity. In addition to this, achieving a proper uniformity within a flock is also essential to obtain good laying performances.

The main objectives during the brooding period are:

- Rapid growth to reach body weight target at 5 weeks of age
- Good uniformity from the beginning
- Maintaining excellent livability

From day old to transfer, the chicks will grow slowly, and organ development occurs at various ages. A lack of growth during any of the growth stages can have a detrimental impact on the 17-week-old pullet quality. Any delay in growth at 4-5 weeks of age, will be reflected in a reduction in bodyweight at 16 weeks and then in performance, particularly in mean egg weight in temperate climates. Keep in mind that two pullets with the same bodyweight haven't necessarily developed the same body composition, it all depends on the growth curve. Good growth curves result in good pullet development. The growth and developments of laying hens is split in the following stages.

The first 3 weeks are devoted to a rapid development of the organs of the digestive tract and the immune system.

From week 3 to week 6, skeleton and muscles are rapidly growing. Bodyweight at 5/6 weeks is the most important determinant of pullet quality. Any delay in growth at this stage is harmful to the birds, as it will have a detrimental impact on pullet quality and body composition, which will in return impact negatively the birds' performance.

From week 7 to week 15 growth rate is starting to slow down. By 12 weeks skeleton is almost completely developed and the pullets are practically fully grown in terms of size.

The final stage is characterized by ovary development and rapid growth of the reproductive tract. Sexual hormonal regulation takes place around 18 weeks and leads to sexual maturity around this age. Medullary bone also develops during this period, about 2 weeks before first egg is laid.

At all stages of chick development, flock uniformity needs to be reviewed. The objective is to have

a very high uniformity to facilitate flock management and proper light stimulation. It is well known that low flock uniformity leads to poor egg laying performance: slow onset of lay, poor and late peak of production and increased number of small eggs. The number of feeders and drinkers, feed distribution, the presentation of the feed and the farmers' management are strong contributors to ensure uniformity. Heterogeneity at early age has a negative impact on uniformity at the end of the rearing period, before birds are transferred.

Building the potential during the growing period

After a good start during the brooding period, the main goal of the growing period is to ensure the full development of the birds so that they reach their highest potential for producing eggs later in life. The objectives during the growing period are:

- to establish a good feeding behavior pattern
- to develop the digestive tract (crop and gizzard)
- to obtain a good uniformity of at least 80%
- to achieve the recommended body weight at sexual maturity

These objectives can be achieved by:

- correct stocking density, proper feeding and drinking equipment and housing conditions
- a lighting program adapted to the rearing conditions
- a good standard of beak treatment (when local legislation allows the application of beak treatment)
- correct disease prevention: good biosecurity and adapted vaccination program
- good management of the feeding program and feeding techniques



AVIAGEN EAST AFRICA LAUNCHES NEW TRAINING MODULE FOR LOCAL POULTRY PRODUCERS



Aviagen® East Africa, the joint venture in Tanzania, welcomed poultry professionals from 6 countries across the East Africa region to their new 'Aviagen East Africa Training Module' in Dar es Salaam, Tanzania, from 07- 11 October. During the training, attendees explored aspects of best practice breeder, broiler and hatchery management and how to develop prioritized strategies for increased biological output at the optimum unit cost. Throughout the week, participants were able to connect with likeminded poultry professionals and interact with experienced Aviagen trainers who shared their insights on key topics including data handling, uniformity, grading, broiler management, broiler nutrition, egg handling and floor egg management.

Work together, succeed together

Attendees were assigned groups at the beginning of the week, to work collaboratively on a case study, culminating in a presentation of their findings to a panel of Aviagen experts at the end of the training module. This teamwork fostered in-depth discussions, knowledge, idea generation, and problem-solving. During the graduation ceremony, the team recognized for outstanding performance received a certificate and a gift in acknowledgement of their impressive contributions throughout the training. One of the highlights of the week was a breakout analysis practical session, led by David Bailey,

Hatchery & General Administration Manager, Aviagen East Africa.

First Training Module for East Africa

This type of training module was the first for the East African region, and many of the participants were excited to be there and eager to learn all they could from Aviagen specialists.

David Bailey shared his thoughts on the training module and its success. "This was the first Aviagen East Africa Training Module, and it was a huge success. We had a total of 27 attendees from countries all across the region including Tanzania, Uganda, Rwanda, Kenya, South Africa and Zambia. This Training Module is of great importance to the East Africa region as it enables us to support local farmers by equipping them with the knowledge to produce well-performing flocks, and achieve the best return on investment. We look forward to our future Training Modules, which we plan to do annually."

"The Aviagen East Africa Training Module was great and provided all participants with a great deal of knowledge. Thank you to the organizing team for hosting this event and equipping us with the tools and information needed to achieve the

maximum genetic potential of our flocks," commented Patrick Banda, Farm Manager, Hybrid Poultry.

Loveness Kimario, Assistant Rearing Manager, Silverlands added, "The training provided practical insights into breeder and broiler management, hatchery practices and nutrition, deepening my understanding of production. The interactive sessions allowed for real-world application of the concepts learned throughout the training. This module offered valuable insights and practical skills beneficial to my role, and I look forward to implementing what I have learned."

Adam Nsengiyuma, Assistant Breeder Farm Manager, Easy Hatch Ltd, expressed his thanks to the Aviagen team for organizing an insightful event. "I wanted to take a moment to express my heartfelt gratitude to the entire Aviagen East Africa team for the outstanding training session that was recently organized. The content was not only relevant but also engaging, and it truly equipped us with valuable skills and insights that we can apply in our work. Thank you for fostering such a positive learning environment. Your commitment to our growth and development is greatly appreciated."



POULTRY AND HYGIENE: CRITICAL COMPONENTS IN FOOD FREEZING



Ensuring proper hygiene in poultry processing is paramount to safeguarding public health, maintaining product quality, and ensuring compliance with regulatory standards. Hygiene in poultry processing impacts food safety, thus measures to uphold sanitation throughout the production chain is critical. At AGF Freezers, maintaining high hygienic standards in the design and construction of our freezing and chilling equipment, plays a crucial role in upholding poultry hygiene standards.

Food Safety and Public Health Concerns

One of the most critical aspects of hygiene in poultry processing is food safety. Poultry, like other meats, can be contaminated with pathogens that pose risks to human health. Common pathogens include *Salmonella*, *Campylobacter*, and *Escherichia coli* (*E. coli*), all of which can cause severe foodborne illnesses. As of October 9, 2024, over 11 million pounds of ready-

to-eat (RTE) meat and poultry products have been recalled in the USA due to possible adulteration of *Listeria monocytogenes*. The risk of contamination can occur at multiple stages of poultry processing, from the slaughter of live birds to the packaging of processed meat. If proper hygiene is not maintained, bacteria, viruses, or other harmful microorganisms can spread, leading to outbreaks of foodborne illnesses.

Economic Impact and Industry Reputation

Maintaining hygiene in poultry processing also has significant economic implications for the poultry industry. Contamination events or outbreaks linked to unsafe poultry products can lead to product recalls, loss of consumer confidence, and damage to a company's reputation. Recalls are costly and can result in financial losses for producers, processors, and retailers. Moreover, the poultry industry relies heavily on its reputation for providing safe and high-quality products, from Ready-To-Eat (RTE) to various poultry products including raw and prepared. A tarnished reputation can take years to rebuild and may lead to long-term financial losses.

Prevention of Cross-Contamination

Cross-contamination is a major concern in poultry processing. It occurs when harmful microorganisms from one surface, piece of equipment,

or product come into contact with another, spreading contamination throughout the processing chain. Proper hygiene practices are essential to preventing cross-contamination in poultry processing facilities. To mitigate the risk of cross-contamination, it is crucial to implement rigorous cleaning and sanitizing protocols at every stage of the production process. This includes maintaining clean and sanitized equipment, using personal protective equipment (PPE) for workers, and ensuring that poultry carcasses are handled in a hygienic manner. Additionally, separating raw poultry from other products and maintaining proper airflow and temperature controls in processing areas can help minimize the spread of harmful bacteria.

Challenges in Maintaining Hygiene

While maintaining hygiene in poultry processing is crucial, there are several challenges that the industry faces. These include the high volume of poultry processed daily, which increases the risk of contamination, the complexity of processing equipment, and the need for constant monitoring and maintenance of hygiene practices. For example, by paying attention to hygienic conditions within spiral freezers to chill/freeze poultry, such as minimal internal surface areas, robust construction and welding, sloped floors for effective drainage, we can see a significant reduction in bacterial growth and harborage points during the freezing/chilling stage.

For more information, visit www.agffreezers.com





ALPINE REACHES THE TOP OF ANATOMIC LEG PROCESSING

As demand for deboned leg meat continues to rise, ALPINE (Anatomic Leg Processor Innovative New Evolution) addresses processors' needs for increased production volumes while maximizing yield and quality. The innovative ALPINE module, fitting in Marel's ACM-NT cut-up line, represents a significant leap forward in anatomic leg processing. Its ability to maintain top-level performance while handling a wide range of weights and reducing labor dependency sets a new industry standard.

Quite some advanced technologies have been implemented to realize ALPINE's high performance, such as the Hip Dislocation Wheel. This unique feature allows for precise control of the hip tilting movement-needed to achieve an anatomical cut-without exerting excessive force or removing the leg from the shackle. It results in improved performance and virtually inexistent leg loss.

To further enhance accuracy and minimize errors, ALPINE incorporates advanced back piece separation and detection technology which prevents incorrectly cut legs.

Optionally, processors can

integrate a special module to remove groin skin automatically, meeting specific market demands while saving considerable manual trimming labor.

Ease of operation

Equipped with a user-friendly HMI touchscreen, ALPINE makes it easy to enter a recipe that matches the specific characteristics of the incoming flock. This automatically engages the proper machine settings to provide the highest possible leg yield. The screen also shows performance data, enabling processors to monitor key metrics such as backpiece detection, leg loss, and unprocessed legs. Built-in machine software provides this real-time and historical performance data. Such proactive insights minimize the need for manual intervention and prevent downtime. ALPINE's data-driven approach enables processors to maintain peak performance with minimal need for maintenance.

Wide weight range with consistent results

ALPINE is designed to process high-yield anatomic legs across an unprecedented range of bird weights without requiring major

adjustments. This versatility is particularly valuable for processors handling diverse flock weights, enabling them to optimize operations even in markets that process big birds. Regardless of weight fluctuations, the result will always be consistent: a high-yield leg.

Compatible with both water-chilled and air-chilled lines, ALPINE easily integrates into existing setups and pairs excellently with Marel's Thigh Fillet System, at a capacity of up to 7,200 products per hour.

Saving labor

By keeping legs in the shackles throughout the process, ALPINE practically eliminates product drops and minimizes rework, downtime and labor. Digital operation, automated settings, reduced need for adjustments and precise performance monitoring further highlight its labor-saving advantages. Touchscreen control and the broad weight range further contribute to ALPINE's efficiency, ease of use and consistently high yield.

For more information, visit www.marel.com/alpine



AL WATANIA POULTRY UNVEILS LARGEST COOLING PLANT IN THE MIDDLE EAST

Al Watania Poultry, a global leader in poultry production, announced the launch of the Middle East's largest cooling plant, boasting a capacity of 17,700 kw.

The initiative underscores Al Watania's commitment to advancing food security and supporting Saudi Arabia's economic growth by leveraging advanced technology and enhancing the productivity of its facilities and workforce.

Ranked 24th globally in the poultry industry and providing 30% of Saudi Arabia's poultry supply, Al Watania Poultry continues to establish itself as a cornerstone of national food security.

The new cooling plant will service multiple biothermal loads, including a high-capacity automated slaughterhouse that processes 36,000 birds per hour, alongside cooling all the cold storages and three box freezers linked to the facility. GEA has been appointed for the procurement, and construction of the plant's systems, furthering Watania's dedication to a modern, safe, and efficient work environment.

Acting CEO Mr. Mohammed bin Hamad Alshaya commented,

"At Watania Poultry, we are deeply committed to serving our community by adhering to the highest environmental standards and ensuring safe, sustainable practices that protect natural resources and uphold our principles of sustainable development."

Al Watania Poultry's new cooling project aims to enhance the cooling and freezing capabilities of Slaughterhouse No. 3, adding significant freezing capacity with modern energy-efficient systems that replace older setups to reduce power usage. Equipped with advanced control systems, the plant operates automatically, adjusting cooling or freezing levels based on the slaughterhouse's needs. Temperature is continuously monitored to ensure product quality, and engineers can fully manage the plant remotely, receiving real-time reports on operating conditions and temperatures.

In line with its environmental commitments, Al Watania Poultry is actively working to reduce harmful emissions from its water treatment plants by partnering with Azzuro, a leading Dutch company in gas purification

solutions, to implement biofiltration technology, capable of purifying 15,000 cubic meters of gas emissions per hour.

Additionally, the company is partnering with Tadweem Power Company and others to explore renewable energy sources and minimize diesel emissions. It is also collaborating with the Ministry of Energy and the Saudi Electricity Company, to integrate into the national grid, with an aim to substitute liquid fuels with cleaner energy sources.

A pioneer in quality standards, Al Watania holds numerous certifications, including ISO 9001:2015, ISO 22000:2018 for food safety, SQF, HACCP, BRC for food safety, Halal certification from the Food and Drug Authority, a Quality Mark from the Standards and Metrology Organization, and the Saudi GAP certification from the Ministry of Environment, Water, and Agriculture. These certifications underscore Al Watania's commitment to adhering to international quality standards throughout its operations.

For more information, visit www.alwatania.sa



HOW RUBBER IS REVOLUTIONIZING ANIMAL WELFARE

Thanks to KRAIBURG, sustainability and environmental protection are now making their way into animal barns, promoting eco-friendly practices

Stands as a leading specialist in the production of rubber mats, distinguished by its innovative upcycling techniques. With a dedicated workforce of over 200 employees, the company employs a unique process to manufacture high-quality rubber flooring specifically designed for animal husbandry.

Sustainable rubber cycle – since 1968

Since its founding in 1968 by Peter Schmidt, KRAIBURG has been committed to the vision of giving old car tires a second life. Today, this vision has transformed into a sustainable reality, with approximately 7.5 million tires recycled annually into durable rubber mats for animal barns. The company harnesses the key properties of tires—such as dimensional stability, elasticity, and abrasion resistance—allowing for the effective reuse of valuable rubber while conserving natural resources. This approach has led

to an almost waste-free production process, creating a sustainable rubber cycle is created that benefits both the environment and the agricultural industry.

Animal welfare and environmental protection hand in hand

The impact of KRAIBURG's rubber mats extends far beyond mere functionality. Animals around the globe benefit from a soft, non-slip surface that provides comfort and safety, significantly enhancing their overall well-being. Numerous studies have demonstrated that such environments contribute to healthier, more productive livestock. Furthermore, the modern barn flooring solutions not only improve the quality of life for animals but also streamline the work processes for farmers. The high-quality raw materials used in production ensure that inferior fillers are entirely avoided, with regular testing by organizations such as the DLG confirming that the products are

safe for humans, animals, and the environment.

Reduce emissions and conserve resources

KRAIBURG's commitment to animal welfare goes hand in hand with its dedication to environmental protection. By promoting animal-friendly, low-emission, and resource-efficient farming practices, the company plays a crucial role in paving the way for sustainable livestock management. Its efforts support environmentally conscious farming, thereby contributing to the broader goal of responsible food production and preservation of the planet's resources.

As KRAIBURG looks to the future, it aims to continue making significant contributions to sustainable agriculture, focusing on innovative solutions that balance animal welfare and environmental stewardship.

For more information, visit www.kraiburg-elastik.com

EFFICACY OF LIV HERBS PLUS INOSITOL AND SORBITOL IN CATTLE HEPATO CARE

By: Dr. Sujani Gudipati, Head R & D, Advance Aqua Bio Technologies India Private Limited

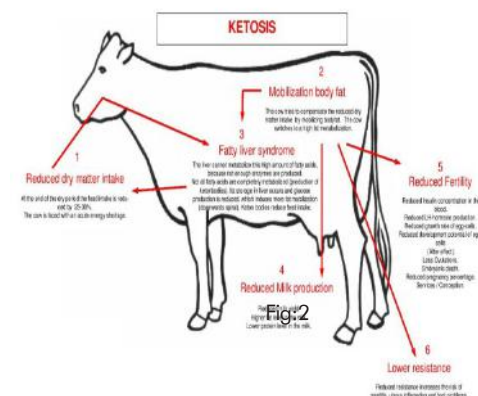
Liver the largest, most sensitive and vital organ performs many vital functions of the body from facilitation of lipid and glucose metabolism, synthesis of proteins, cholesterol and hormones, to detoxification and excretion of waste. A nutrient store house, with anabolic roles. A major contributor to the immune system, acting as the first barrier to all antigens and a role in controlling immune responses like inflammation and stress.

Liver has a self-repairing nature maintaining its vitality due to the hepatocytic regeneration capacity. This capacity of the liver can be damaged or affected by the continuous and excessive movement of toxic substances through it, affected by dietary imbalance and the too rapid feed transitions. These intense activities lead to accumulation of waste and toxins in the liver. Animals at this juncture show

decrease of appetite, reduced bile secretions, increased pancreatic secretions, leading to a deterioration in the absorption and assimilation of the nutrients from the intestine. Resulting in reduction of iron metabolism, red blood cells, fat soluble vitamins, glucose and improper urea and amino acids metabolism. Leading to poor feeding, growth and production.

Hepatitis consequences, a cause of concern in cattle

During periods of stress, feed alone does not suffice to cover all the needs so is forced to use up its reserves to meet it. When this demand is too high, results in Steatosis or Ketosis, the fatty acid accumulation resulting in liver inflammation. Weakening of immune system leading to mastitis, the leucocytes lose ability to migrate and fight against infection, the intestinal barrier also is weakened, thus leading to an insurgence of infections,



vitamin deficiencies and can even affect the fertility, since the production of some proteins and hormones is hampered.

Role of Liv Herbs Plus Inositol and Sorbitol

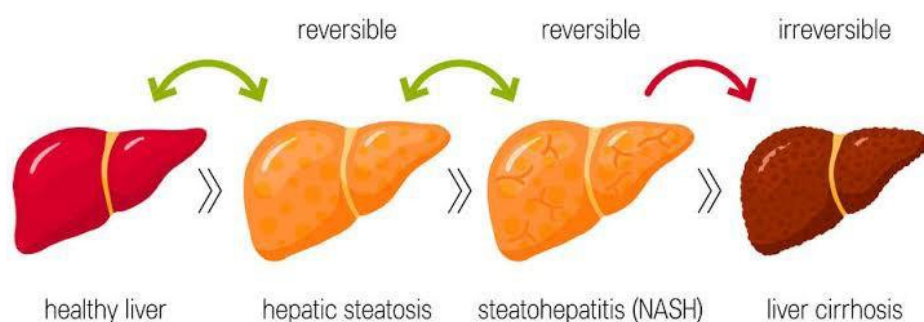
A synergistic and judiciously selected combination of Liv herbs plus Inositol and Sorbitol as coadjuvants with Lipotropic and antioxidant activity, important for liver health and functioning. These herbs, Inositol and Sorbitol are well documented in earlier studies and research for their hepatic and growth enhancing activity.

Aegle marmelos improved digestion, decreased urea and serum cholesterol, potent against dysentery and diarrhea, gut microbial toxin absorption and bacterial and viral adjuvant. Tannins, Flavonoids and Coumarins make it anti-inflammatory, antioxidative, antipyretic and effective preventer of hepato cytotoxicity.

Silybum marianum's

Fig:1

STAGES OF LIVER DAMAGE



(Milk thistle) antioxidant with oxidative stability, hepatoprotective, Anti-inflammatory, Antifibrotic, supports liver function, detoxification, improves gut micro flora and reduces intestinal disease incidence, helps repair damaged liver cells, helps in cooling the body and hormonal balance.

Gynostemma, *Terminalia* & *Tecomella* hepato protective, increases biliary secretion and flow, relieve bloating and loss of appetite, enhances animal health and weight.

Eclipta alba *Schisandra* & *Goji Berry*, anti- hepatotoxic, potentiate feed assimilation and utilization.

Picorrhiza kurroa are good stomachic, useful in in-appetence conditions.

Citrullus & *Zingiber* help detoxify and reduce excessive metabolic heat.

Andrographis paniculata – Hepatoprotective, anti-oxidant, detoxifier, relieves indigestion, supports healthy gallbladder, lipid breakdown with healthy flow of bile.

Solanum nigrum & *Azadirachta indica* : antispasmodic, hepatoprotective , antioxidant, antipathogenic.

Boerhavia diffusa & *Trachyspermum* - hepatoprotective, Astringent, cooling, anthelmintic, diuretic, emetic, expectorant.

Inositol the natural sugar-alcohol readily absorbed and carried to the muscle improves growth acts as a cell messenger and binding to the neurotransmitter, anti-oxidant, regulating lipid metabolism and hepatic function.

Sorbitol – anti-inflammatory, detoxification, supports gallbladder function, bile secretion and hepatic regeneration.

Summarized Efficacy of Liv Herbs plus Inositol and Sorbitol in Cattle

Amelioration of Hepatic lesions, inhibition of lipoperoxidation that causes cellular membrane damage, hepato protective, regenerative and anti-oxidant activity, with reduced hepato megaly. Inhibiting the toxic ethanol, carbon tetra chloride, acetaminophen formation. Enhanced hepatic glutathione production with increased protein synthesis in hepatocytes.

Mode of working

The working of phytochemicals of Liv Herbs plus Inositol and Sorbitol as per studies conducted by Advance Aqua Bio Technologies India Private Limited, showed that the Gut microbes of cow fed with Liv herbs plus Inositol and sorbitol blend, metabolized feed starch into volatile fatty acids, lactates

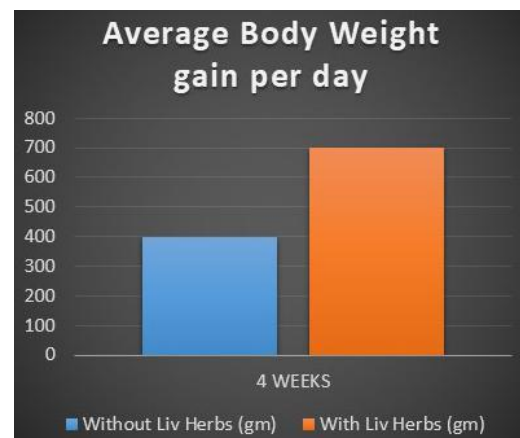


Chart 1

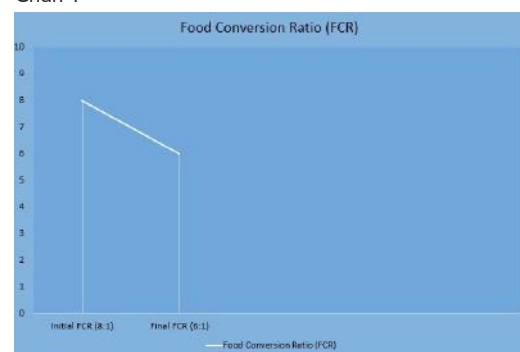


Chart 2

and propionates, broken down to glucose, for energy, this negative energy balance leads the body to utilize fat as energy source. The liver enzymes convert this fat into usable energy. The harmful toxic substances converted to their inert forms. Reduced Beta-hydroxy-butyric acid, indicates good liver health, better fat oxidation, reduced free radicals and competitive inhibition.

For more information, contact research@aabt.in; dr.vasu@aabtgroup.com

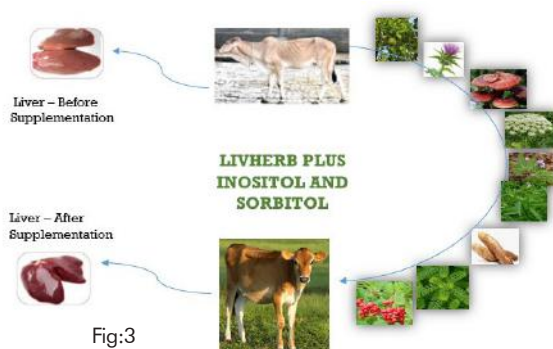


Fig:3

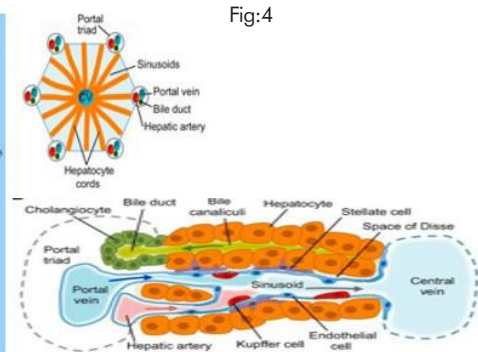
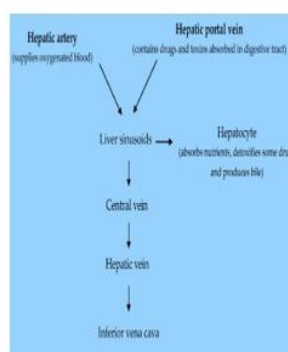


Fig:4



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Nafosa began its journey in the business world in 1940, and today it stands as the largest company in the dehydration sector in Europe.

The company operates 4 dehydration plants in Spain and 2 more in Argentina, managing approximately 40,000 hectares of land with a production capacity of over 400,000 tons.

Nafosa provides healthy forage with maximum 12% moisture including Alfalfa, cereal straw, oat hay, alfalfa pellets, sugar beet pulp pellets, etc...

Moreover, in order to provide a complete service to our customers, **Nafosa** is constantly developing new commercial lines.

Nafosa has a highly experienced team in the sector, currently consisting of around one hundred direct collaborators and three hundred indirect collaborators, all committed to innovation, quality, and service.

TRACKING SYSTEM | the integration of our production, logistics, sales, and after-sales teams

- BATCH SELECTION
- ANALYSIS OF EACH BATCH- Dairy One
- SHIPMENT DATA SENT- All the data at your disposal for improved traceability.
- LOADING REPORT- Our transparency policy taken to the maximum.
- COPY OF DOCUMENTS- Expedite the dispatch of your goods and save money.
- AN AFTER-SALES DEPARTMENT AT YOUR SERVICE



KEY STRENGTHS

- **TEAM:** An in-house agronomic team with extensive experience.
- **CONTROLS:** Biosecurity and quality controls in our laboratories.
- **CONTINUOUS IMPROVEMENT:** Constant technological upgrades in our production processes.
- **CERTIFICATION:** HACCP, GMP+, ECO, ORG.
- **COMMITMENT:** A deep commitment to sustainability and clean energy in all processes.
- **ANALYSIS:** Forage and raw material analysis services. Maximum reliability.
- **TRACEABILITY:** Full traceability from field to port of destination.
- **TRANSPORTATION:** **Nafosa** has all the necessary logistical transport means for international shipments.

For more information, visit www.nafosa.es

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REASONS FOR PELLET COOLING



In the pelleting process, cooling is essential for several reasons, cooling is required to prevent mold and stabilize the residual moisture.

Cooling is a critical step in the pelleting process to ensure the production of high-quality pellets that are safe, durable, and suitable for their intended applications.

La Meccanica produces 3 types of pellet coolers:

- **the counterflow cooler**, the most known and used in all sectors and represents

the solution with the best cost/performance ratio of pellet cooling

- **the horizontal cooler**, used only in the animal feed sector when vertical space is limited

- **the vertical cooling group**, is used also only in the animal feed sector and takes a minimal amount of floor space

The counterflow cooler

A counterflow pellet cooler is a piece of equipment commonly used in the production of

pellets, such as animal feed pellets or wood pellets. Its purpose is to reduce the temperature of the pellets after they have been extruded or processed at high temperatures.

The cooler works on the principle of counterflow heat exchange, where the pellets move in one direction while a stream of cool air or water moves in the opposite direction. This setup maximizes the temperature differential between the pellets and the cooling medium, facilitating efficient heat transfer.

Counterflow pellet coolers are preferred in pellet production because they offer several advantages:

- takes up little floor space
- its design maximizes heat transfer efficiency
- requires low volumes of air
- good function even at the beginning and end of production
- rapid cooling helps prevent pellet breakage or deformation
- little maintenance
- limited initial investment.

For more information, visit www.lameccanica.it



HALF A MILLION BIRDS RELEASED TO BOOST THE SUSTAINABILITY OF HOUBARA POPULATIONS IN THE WILD

The International Fund for Houbara Conservation (IFHC), the global leader in pre-emptive species conservation, has announced a total production of 888,256 houbara bustards at its breeding and research centres in Abu Dhabi, Morocco, and Kazakhstan since the inception of its conservation programmes. Under the leadership and guidance of His Highness Sheikh Mohamed bin Zayed Al Nahyan, President of the UAE and Ruler of Abu Dhabi, IFHC has effectively preserved and released 534,122 birds to rebalance wild houbara populations across their international range of distribution in Asia and North Africa.

Commenting on IFHC's outstanding participation in the Abu Dhabi International Hunting and Equestrian Exhibition (ADIHEX) 2024, His Excellency Abdulla Ghurair Al Qubaisi, Director General of the International Fund for Houbara

Conservation, said: "Our success is inspired by the directives of His Highness Sheikh Mohamed bin Zayed Al Nahyan, President of the UAE and Ruler of Abu Dhabi, to preserve our environmental and cultural heritage for future generations.

This commitment reflects the vision of our Father of the Nation, the late Sheikh Zayed bin Sultan Al Nahyan, who recognised the decline of houbara populations and established the Abu Dhabi Houbara Conservation Programme. This program employs a holistic global approach that combines captive breeding and habitat protection."

Over the five decades, the conservation program has built a comprehensive understanding of the houbara. This includes its ecology, genetics, ecological behaviour, distribution, breeding areas, and migration routes. We have also developed standard techniques and protocols for captive breeding using artificial insemination and incubation, and the propagation of breeding

birds separately from release birds to boost wild populations.

The success story of the houbara is part of a broader narrative of successful conservation efforts in Abu Dhabi, which has managed to protect and restore various threatened species in the desert habitat, including the oryx, Arabian tahr, dugongs, and sea turtles. "The houbara conservation initiative is a key indicator of the protection of an integrated ecosystem in the desert and remote areas, where local communities, with their rich and ancient cultures and traditions, play a crucial role," His Excellency Abdulla Ghurair Al Qubaisi explained.

IFHC operates one of the largest conservation programmes globally, building on a legacy that stretches back nearly 50 years, beginning with Al Ain Zoo's initial efforts in houbara captive breeding and propagation to preserve their populations in the wild in 1977.



GLOBALSTAR PARTNER SPOTTER ACHIEVES MILESTONE OF OVER 30,000 SATELLITE IOT COLLARS DEPLOYED ACROSS CENTRAL ASIA

A wholly owned subsidiary of Globalstar, Inc. (NYSE American: GSAT) the next-generation mobile satellite and communications service provider, announced that value added reseller Spotter has seen sales of its satellite IoT-enabled horse tracking collar more than double in the last 24 months.

Mongolia-based Spotter has reached a milestone of over 30,000 Horse Tracker collars deployed, enabling the reliable monitoring of free-roaming horses across Mongolia, Kazakhstan and Kyrgyzstan. Describing sales uptick of nearly 160% since October 2022, Spotter Co-Founder Tsogbadrakh Surenjargal said, "The growth has been phenomenal."

Each Spotter collar is fitted with Globalstar's SmartOne C

satellite IoT transmitter, so the solution helps herd owners keep tabs on their valued equines wherever they travel in this sparsely populated region, even when well beyond the reach of cellular signals. With SmartOne C's small size, versatility, and low price, Spotter is seeing rapid uptake of its lightweight, rugged, and economical tracking collars.

There's a growing understanding among the horse owning community of the value and reliability of the satellite IoT technology solution, according to Surenjargal. "People are becoming aware that terrestrial telecoms infrastructure like mobile networks are simply unable to provide the ubiquitous and always-on tracking capability of satellite."

Spotter's customers are further benefiting from recent expansion

of Globalstar's Eurasian ground station gateway network, now providing even greater reach and network resilience while enjoying the low maintenance and long battery life of SmartOne C.

"For people across Central Asia, horses are their livelihood as well as the living embodiment of their history and culture; we're incredibly proud that Globalstar satellite IoT technology is helping owners track and safeguard their precious animals in one of the world's most desolate landscapes, and in the most extreme climatic conditions. Many congratulations, again, to our partners at Spotter," commented Mark O'Connell, Globalstar General Manager for EMEA & APAC.

KH WITTE

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