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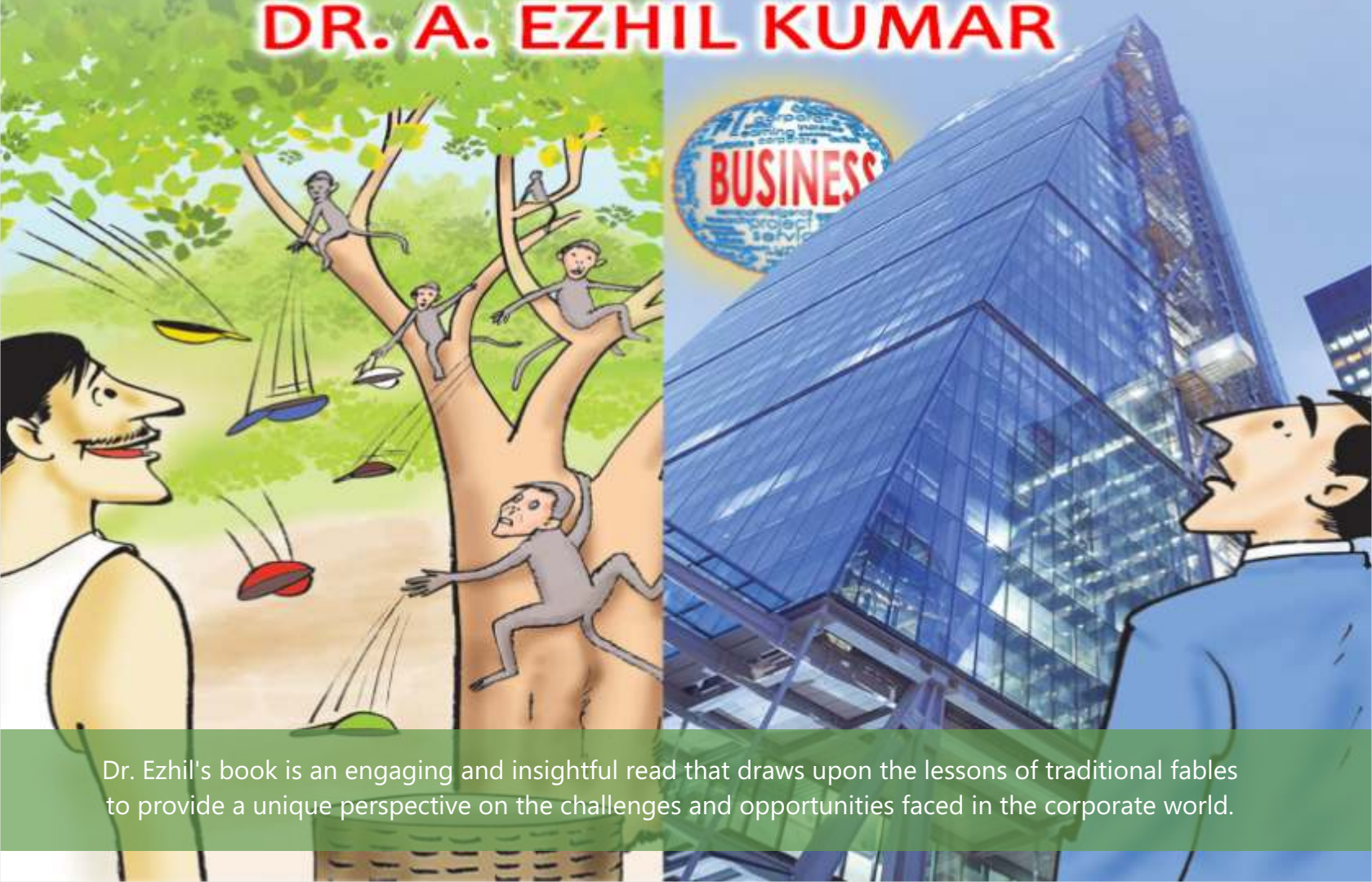
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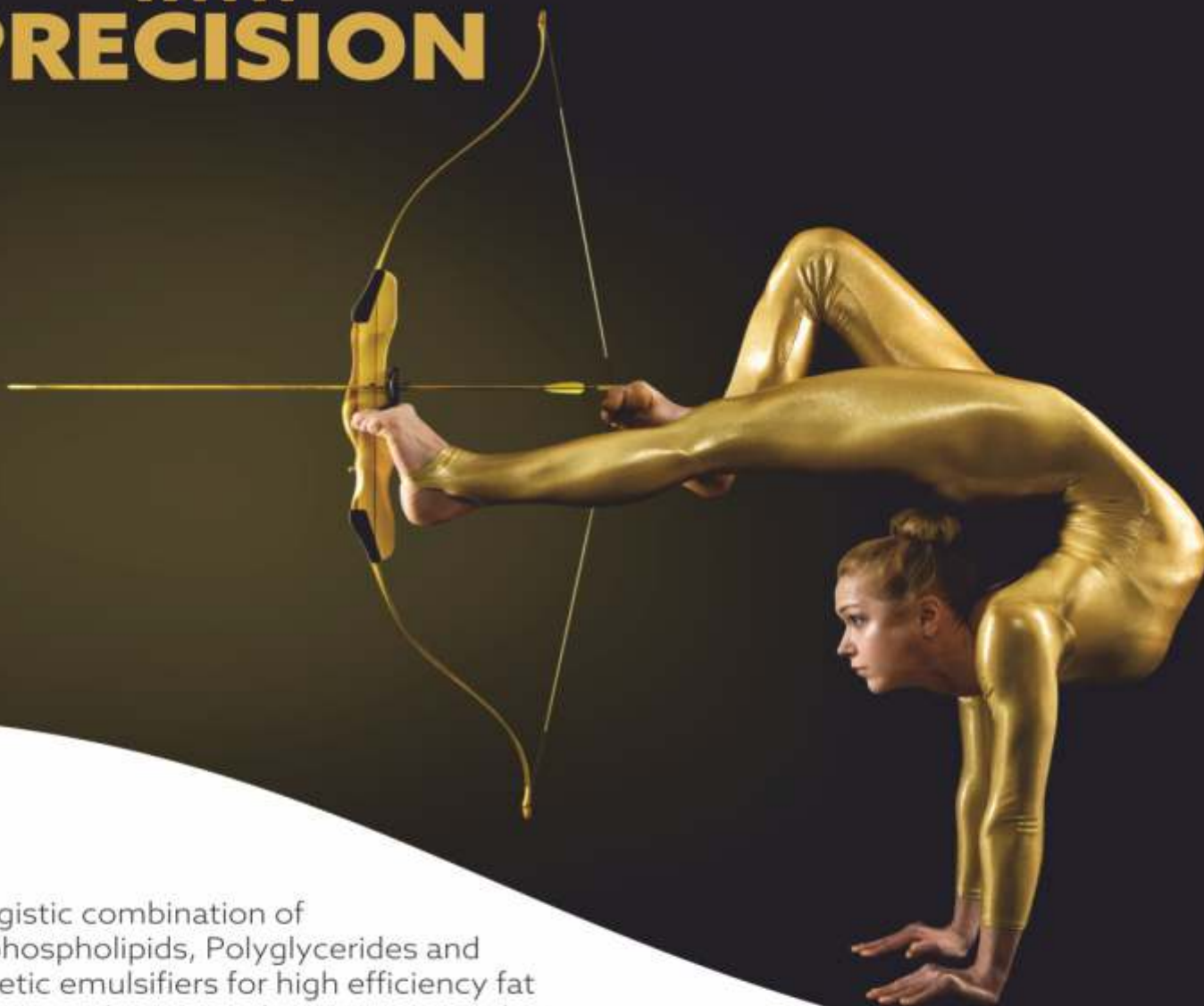
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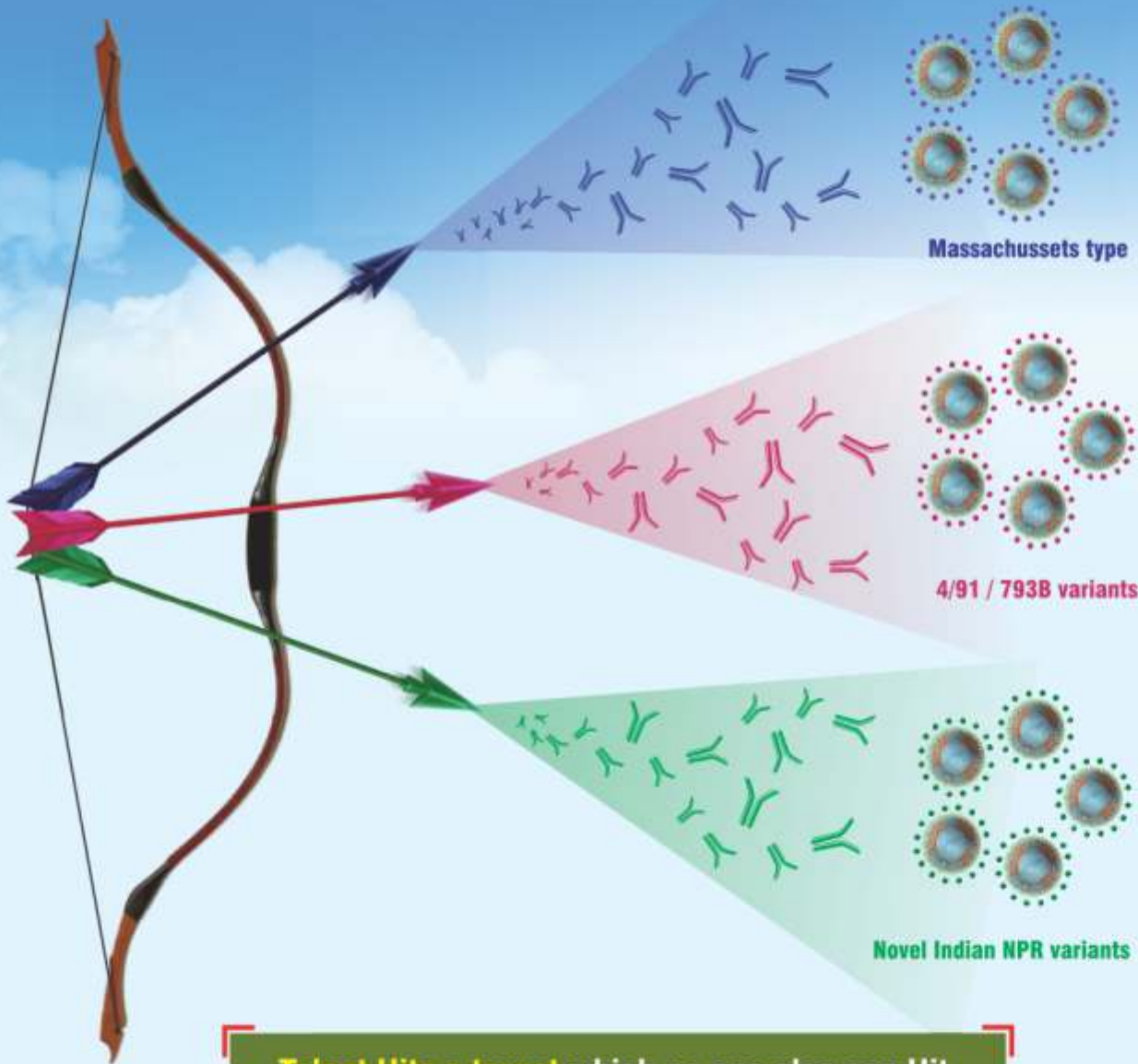
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From the Editor's Desk

From Farm to Table: Cold Chain Management Matters



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All food of animal origin especially poultry products are susceptible to bacterial growth as the decomposition of meat begins as soon as the animal is slaughtered. This is because of its chemical composition: proteins, lipids, and water.

The rapid reproduction of microorganisms begins if it is not stored and transported at the proper temperature. The growth of harmful bacteria such as Salmonella and E. coli, can cause foodborne illnesses in humans.

Cold chain management is essential in the poultry industry to maintain the quality and safety of poultry products and extend their shelf life. It involves maintaining a continuous temperature-controlled environment for poultry products from the time of slaughter until they reach the consumer.

It is a challenge to maintain the cold chain right from the stage of cooling the cuts, to their storage and maintaining the requisite temperatures during transport and transfer of meat to the retailer. Various packaging solutions make it possible to extend the shelf life of fresh chilled meat. For example, vacuum and modified atmosphere packaging.

Cold chain maintenance is the biggest essential to keep the products fresh and safe for a longer period, reducing wastage and the need for frequent restocking and disposal of expired products, thereby increasing profitability.

Reducing wastage and extending the shelf life of poultry products, can also help reduce their environmental footprint and contribute to a more sustainable food system.

Cold chain management matters not just to reduce wastage or extend shelf life but to increase profitability and reduce the environmental footprint as well.

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Impact of Summer Stress in Poultry Production and Mitigation Strategies

Jai Prakash and B L Saini

Assistant professors, department of livestock production management, SCOVAS, Jhajjar, Haryana

Assistant professors, department of Animal Genetics and Breeding, SCOVAS, Jhajjar, Haryana

Introduction

Poultry are very much sensitive about any type of environmental stress like summer, winter, or rain due to this broiler and layer performance become lower down (Lower meat and egg production). Especially during summer season, the ambient temperature goes several degrees higher than the ideal zone causing severe depression in the growth rate and

egg production thereby leading to great economic loss to the poultry farmer. For optimum feed efficiency, an ideal temperature range for chicken should be from 18°C to 24°C is needed. If temperature reaches 30°C can still regulate their body temperature but above this temperature heat stress started. By proper summer management, these losses can be overcome.





• **Adverse effect of heat stress on poultry performance:**

• Due to high summer temperature various physiological and pathological changes that take place in the chickens body given as follows:

1. Reduction of eggshell thickness due to which breaking of egg.
2. Mortality specially in daytime due to sudden rises due to heat shock.
3. In chicken no sweat glands, so they will start panting vigorously.
4. Feed efficiency ratio affected due to which chickens' growth rate and body weight gain become lower.
5. In layer due to heat stress fertility and hatchability percentage become lower.
6. Poor feathering and shedding of feather may see due to heat stress.
7. Heat stress more affect to those chickens which are grown in cages or slat as compared to litter.
8. High environmental

temperature associated with high relative humidity (>70%) may lead to outbreaks of Coccidiosis and attack of ectoparasites.

In summer season for maintaining optimum production in layer (egg production) and broiler (meat production) following strategies will help to combat in poultry farming –

1. Housing strategies
2. Watering strategies
3. Nutritional management

1. Housing strategies in poultry farming in summer:

- Poultry house direction should be in east - west to minimize the direct effect of sunrays.
- Poultry house building width should be at least 10-12 m and have good roof insulation.
- Thatching of roof with paddy straw or sugarcane leaves & fogger systems which will reduce temperature inside the shed.
- Proper air movement over the birds by cooler, fan/exhaust to produce a wind chill effect which cool birds even without drop in the house

temperature.

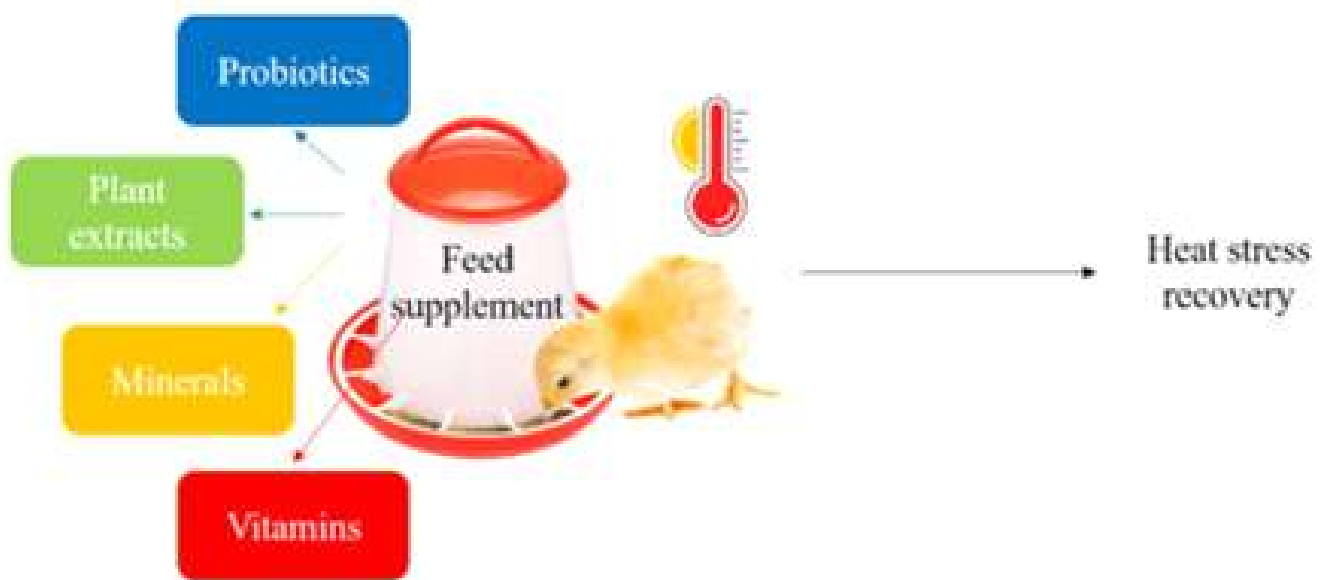
- Floor of house should be of concrete for easy cleaning & disinfection.
- By reducing the birds stocking density in the summer days will give more floor space/ bird & allow more heat to escape out from underneath to their body and from the litter.
- Walls should be waterproof & poor conductor of heat.
- Height and width of house should not be more than 4 meter & 13 meters respectively.
- The roof should be painted with whitewash to walls and roof for reflecting sun light.
- Proper ventilation needed for elimination of excessive heat.

2. Watering strategies in poultry farming during summer:

Normally water feed consumption ratio is 2:1 broiler but when temperature rises more than 35°C, this ratio should be increases up to 1:4 or more, because in summer water intake increases. Practically water is the most important criteria of these four management factors during summer.

Some points to be taken into consideration related with drinking water:

- In poultry house manual water drinkers should be wide & deeper so that chickens face is easily immersed in it.
- Supply of plenty of clean & cold water must be insured.
- Increase frequency of watering.
- Proper cleaning of waterer and



water pipeline supply.

- Cover water tanks with wet gunny bags to avoid direct exposure to sun.
- Addition of 0.25% salts to drinking water like sodium carbonate increase the water consumption.
- In case of nipple drinkers, insulate nipple pipe with wet gunny cloths.

3. Nutritional strategies for poultry farming in summer:

- During summer / heat stress consumption of feed by birds is reduced considerably leading to reduced body weight gain, feed conversion ratio, egg production and eggshell quality.
- Supplementation of energy diet & decreasing proteins and increase amino acids like methionine, lysine, threonine will give better results.
- In whole of summer season don't offer feed during daytime, offer feed only during cooler part of the day like early morning and evening. By

addition of ammonium chloride, potassium chloride and /or sodium bicarbonate in feed and water may improve performance of birds.

- Increase nutrient density of feed to compensate for depressed feed intake like 20-30% extra vitamins (Vitamin A, vitamin C) and trace minerals should be added to feed because due to heat stress birds are not able to synthesize the sufficient number of vitamins and minerals.
- Vitamin E & Selenium act as antioxidant and vitamin C act as antistress vitamin both work on to improve body weight gain, egg quality (external or internal), immunocompetence & overall optimises feed conversion ratio of broiler as well as layer birds during extreme hot conditions.
- Supplementation of vitamin E @ 8000IU/Kg diet & vitamin C @ 1000 mg /Kg in feed of chicken or give 1 gm ascorbic /litre of drinking water throughout heat stress period

is recommended.

- To remove harmful effects of heat stress may supplement probiotics (lactobacillus strains) in feed which enrich diversity of microflora in chicken.

Conclusion

The change in climate is one of the important environmental factors which is challenging for poultry industry worldwide. Broilers and layers are negatively affected by heat stress from decreasing body weight gain and egg production, it shows major concern also regarding the poultry welfare. In present scenario to overcome from heat stress poultry farmers apply different strategies like proper housing management, feeding management, watering management and also include different prebiotics, probiotics, vitamins, minerals etc. But these managerial practices do not give consistent result in broilers as in layers still require further research and development in future to combat with heat stress.

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Optimizing Poultry Manure Management for Sustainable Soil and Water Conservation: A Guide to 5 Effective Strategies

Debbie James is the Farmers Weekly's correspondent, contributing regularly to the livestock section.

1. Match application rate to nutrient value

Over-applying poultry manure to fields can have serious consequences for soil, water and air, in the form of harmful methane, carbon dioxide and ammonia emissions.

The phosphate (P) content of typical poultry manure is four times higher than the levels in cattle manure, and nitrogen (N) levels are three times higher.

Recommended application rates – at no more than 1t/acre on grazing land and 2t-3t/acre on silage ground – are therefore considerably lower than the usual 5t/acre application rate for cattle manure.

As well as the pollution risk, applying at higher rates can cause grass to scorch.

The “gold standard” is to apply poultry litter to arable land during cultivation when it can be incorporated into seed-beds, which are often nutrient-hungry. In an all-grass farm, is chicken muck the best nutrient we can use? The answer is no, because losses occur when it sits on top of grass. Also, because phosphate content is very similar to potash (K), the majority of poultry manure application tends to oversupply phosphate and undersupply potash to grassland.

Red Tractor rules state that when it is applied to grassland, the field should not be grazed for at least four weeks – and ideally longer – because of the disease risk.

2. Know the indexes of your soils

Always sample soils for nutrient status before applying poultry manure, as indexes could already be high.



If the soil pH is low, the N and P supplied by poultry manure won't be used efficiently, and reduced plant uptake increases the risk of wastage.

Some of the soils he has sampled on poultry farms are at index 6 for P. The highest indexes are found mostly on long-term grassland where the levels accumulate at the surface.

Once soils reach index 3 for P there is a crop requirement for only 20kg/ha a year of phosphate in a silage system, so 7.5t/ha of poultry manure will oversupply by 70kg P/ha. Do that for three years and your soils will jump up an index. It can take 50 years to get the index back from 6 to 2; a farm should definitely not be applying chicken muck on that land.

Get advice from a professional on how to manage high-index soils, as too much P can be an antagonist against selenium and cause metabolic disorders, such as milk fever, in cattle.

If soils have a low index, values will quickly increase when poultry manure is applied, so sampling should be carried out regularly every three or four years.

If compound fertiliser is applied to land where poultry manure is used, Mr Duller advises using an N and K product and avoiding anything with P in it.

3. Set up manure export agreements with other farms

A 32,000-bird system will produce about 14t of manure a week, so at application rates of 2.5-5t/ha, between 140ha and 180ha of land is required for spreading the annual 700t output.

Many farms won't have that much land, so setting up agreements with arable systems where poultry manure is an asset for crop production and cost-competitive with inorganic fertiliser, even accounting for transport costs if done on a local basis.

Government regulations apply to exporting manure, and these differ between the four UK nations. Always check what the requirements are first, and then price the manure according to current input costs.

4. Never mix with other organic manures



A common mistake is storing poultry litter with other manures. In that situation, the nutrient status of the manure will be an unknown. It is very difficult to do the sums on rates and to work out what other fertilisers are needed when manures are mixed, so always have distinct heaps for different types.

Mixing also limits opportunities for spreading other manures in a nitrate vulnerable zone (NVZ).

Poultry manure is classed as a high readily available nitrogen (RAN) manure. So in Wales, for instance, in 2024 farmers will be prevented from spreading those manures between 15 October and 15 January, but there are different rules for cattle manure.

But if cattle manure is mixed with poultry manure it can't be applied in that closed period either.

Regulations do allow field heaps if the manure is covered with an impermeable material.

Poultry manure is often unstable and easily slumps in a field heap, so it is best stored in a roofed area.

5. Reduce the volume of manure that needs handling

A trial in Wales demonstrated that spraying layer housing with a stabiliser containing non-infective bacteria, with the aim of dominating the bad bacteria present, significantly dried out litter.

The removal of muck from sheds could be reduced from twice a week to once every 10-14 days, the Farming Connect study showed.

This was because the quantity of muck that needed to be handled was greatly reduced. Another important gain was that there was little or no odour in the treated litter.





Fatty Liver Haemorrhagic Syndrome in Layers and its Management

Anmol Pareek¹, Asma Khan², Dipanjali Konwar³ and Biswajit Brahma³

¹M.V.Sc Scholar, ²Professor and Head, ³Professor
Division of Livestock Production Management,
F.V.Sc&AH, SKUAST-Jammu

Introduction

Increasing demand of eggs and commercialisation of poultry for economic production compromised welfare of birds. For economic egg production birds are mostly reared in cage systems across most of the countries. Metabolic disorder like Fatty Liver Hemorrhagic Syndrome is associated with cage type birds. Fatty Liver Hemorrhagic Syndrome (FLHS) is a common metabolic disease of egg type birds which is mostly found in caged birds and cause economic loss to poultry farm. The cause of this disease may be nutritional, metabolic, genetic, hormonal and environmental. Several studies showed that FLHS is strongly associated with nutrition, hence the dietary factor is predisposing cause of FLHS. Fatty Liver Haemorrhagic syndrome is limited to caged layers during summer and spring seasons, birds provided with high energy low protein diets or over feeding are at high risk for developing FLHS. The identification of affected bird is not possible when bird is alive but after death during necropsy large pale liver, haemorrhage in liver, and deposition of fat in liver is found. The abdominal cavity found with large blood clots and liver become febrile, carcass becomes pale due to hypovolemic anemia. Fatty liver is responsible for reduced egg production with poor quality of egg shell, which is more found during the last phase of laying. Long-term accumulation of fat and various toxins in the hepatic tissue cause injury to hepatocytes which leads to improper function and reduced absorption and utilization of fat-soluble vitamins which affects the assimilation and deposition of calcium on eggs resulting in poor egg shell quality. So, liver health is closely associated with egg production

and egg shell quality.

Causes of Fatty Liver Hemorrhagic Syndrome

- Excessive dietary energy intake can be a possible cause of Fatty Liver Hemorrhagic Syndrome. Improper calculated diet containing high ratio of carbohydrate and low portion of protein results in excessive energy which in turn converts to fat.
- Heredity cause can be another reason but heredity is not the sole cause of Fatty Liver Hemorrhagic Syndrome.
- Birds housed in cages are more prone to FLHS because they lack exercise to burn excess energy. Hens which are reared in extensive system are less likely to develop the problem as they have enough space for walking.
- This disease is observed in healthy and high egg producing hens.
- Estrogen was considered to be an etiological agent of FLHS.

Sign and Symptoms

- It is unable to identify the affected birds as bird is healthy and active like other birds. Birds affected with FLHS are usually overweight and have pale comb.
- Necropsy examination reveal accumulation of fat inside body cavity, pale enlarged yellowish-brown to yellow fragile liver, with parenchymal and subcapsular hematoma and bleeding. Clotted blood is found inside body cavity. Haemorrhage associated with FLHS is due to rupture of larger intrahepatic vessels.
- Higher liver weight and haemorrhage was found in birds fed with high level of energy and low

level of linoleic acid and choline.

- It is believed that FLHS occur more frequently in high laying birds due to elevated levels of estrogen. FLHS can be induced in male experimental birds by administration of estrogen. Layers affected with FLHS have elevated levels of estrogen, osteocalcin, and leptin-like protein in blood.
- Fatty liver disorder affects calcium metabolism of birds hence affects skeletal integrity and quality of egg shell.

Prevention and Management of Fatty Liver Hemorrhagic Syndrome

Monitor periodical body weight and daily feed intake of birds.

Fatty liver haemorrhagic syndrome is seen when birds are kept in positive energy. The daily feed intake and periodical body weight should be monitored to recognise birds which are overweight. If the problem of overweight is recognised in birds, these birds should be provided with less energy diet. Along with feed management, birds should be avoided from exposure of high temperature, as high temperature results in positive energy balance.

Substitute carbohydrate with fats while keeping total energy stable.

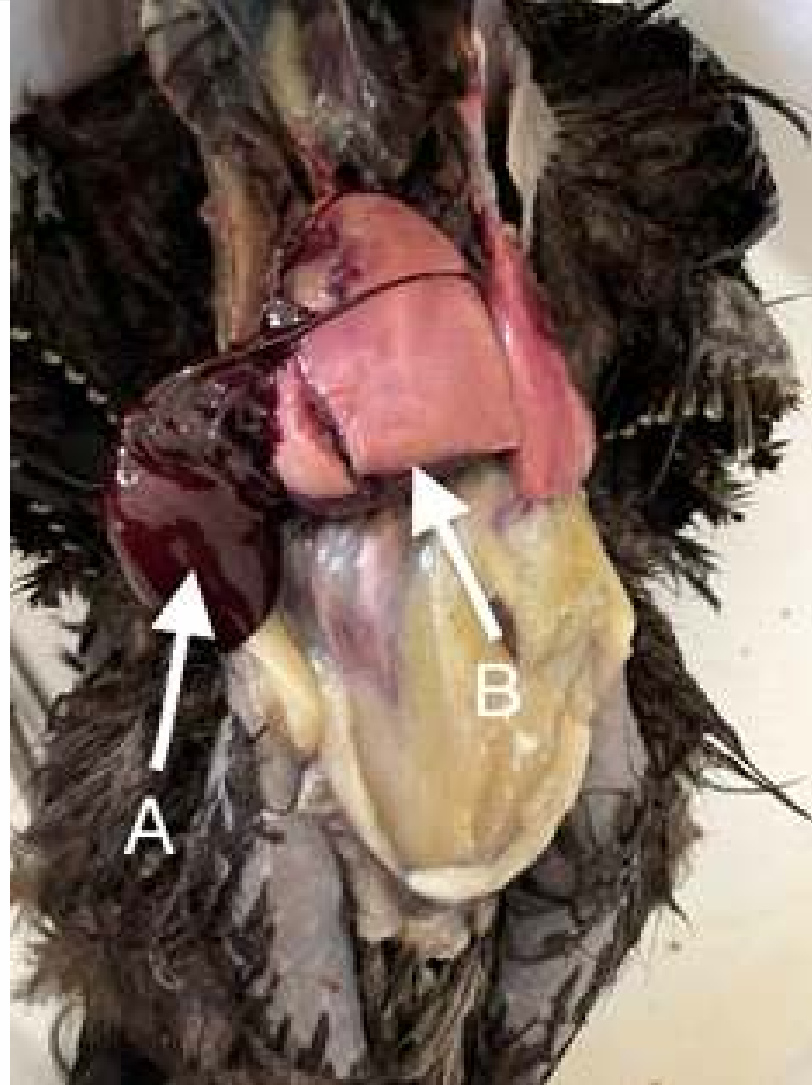
Various experiments have shown that fatty liver haemorrhagic syndrome can be treated through dietary modification, Generally the liver needs fat to synthesize the egg yolk, these modifications include substitution of dietary carbohydrates by fat while not elevating the energy content of feed. Corn can be replaced with wheat and barley but it can reduce dietary energy level, to main isoenergetic conditions additional fat can be used. Various by product feeds like alfalfa, distiller's grains and fish meal, reduce the incidence of FLHS.

Farms having FLHS history, diets should include selenium and Vitamin E.

Supplementation of poultry feed with selenium also has been shown to reduce FLHS, but the mode of action is unknown. The farm which have history



Figure showing (A) blood clot in abdominal cavity (B) enlarged pale and round border liver.



of FLHS, the diet of birds should contain minimum 0.3 ppm concentration of selenium and up to 100 IU of vitamin E per kg diet. The appropriate levels of an antioxidant like ethoxyquin can be included. There are various reports which states that layer fed with conventional inorganic minerals however, relation between feeding of inorganic minerals and FLHS is unknown.

Addition of choline and Vitamin B12 in diet.

It has been proven that addition of Vitamin B12 has improved Feed conversion Ratio without increasing Feed intake. Vitamin B12 supplementation increase the liver enzyme activity(SGPT, SGOT) which helps to reduce the blood cholesterol levels. To prevent birds from FLHS addition of antioxidants and lipotropic factor in diet should be included, which could regulate the lipid metabolism, reduce the free radical production and protect the liver from damage. Methionine and choline are lipotropic

factors which helps to prevent or treat this syndrome. Inadequate level of methionine and choline in diet increase absorption of oleic acid and decreased secretion of triacylglycerol. Supplementation of Vitamin B12 is recommended in diet of laying hens as it gave the best productive performance, improved digestibility of fat, hepatic health and reduced the serum lipid profile.

Conclusion

Fatty Liver Hemorrhagic syndrome is a common metabolic disorder of layers reared in confinement. This disease can affect the whole flock and cause sudden death. Early detection through blood biochemical analysis is possible and if birds are detected with FLHS there should be dietary modifications or feed restrictions which helps to reduce the incidence of FLHS. Various studies have suggested that dietary modification like addition of Vitamin E, Vitamin B12, Selenium and choline helps to reduce the chances of FLHS in birds.



Huvepharma Makes Case for Salinomycin (Sacox®) as Poultry Industry's Ionophore of Choice: INDUSTRY PERSPECTIVES

Ben Dehaeck, Global Product Manager Coccidiostats, Huvepharma.

Coccidiosis remains one of the most significant threats to poultry production worldwide, with the disease costing the industry billions annually. In addition to the direct losses from mortality and decreased growth rates, suboptimal control of coccidiosis can also result in decreased feed efficiency, increased susceptibility to other diseases, and the need for increased use of antibiotics.

Now, while there are a number of control measures available, including vaccination and management practices, the use of ionophores remains one of the most effective and cost-efficient means of combating the disease by preventing the development of *Eimeria* – the parasite which causes coccidiosis – by disrupting its ability to multiply and invade the intestinal cells of birds.

Since the introduction of the first ionophore, monensin, in the 1970s, more have made it to market, with salinomycin, of which Huvepharma is the sole supplier in Europe (Sacox®) and the US (Bio-Cox®), having become a firm favourite for poultry producers according to Ben Dehaeck, the company's Global Product Manager for Coccidiostats. In fact, he told Feedinfo in a recent interview that the company believes it to be the “gold standard” in ionophores.

In this Industry Perspectives, Mr Dehaeck dives into why Huvepharma believes this to be the case and also shares good practice on rotating between different coccidiostats over time to avoid the development of reduced sensitivity and loss of efficacy of these tools. We also talk about the implications of ionophores being considered antibiotics and the post-marketing sensitivity work Huvepharma employs to monitor the sensitivities of different *Eimeria* field strains to Sacox®, as well as evaluating the general efficacy of the product.

[Feedinfo] How prevalent does coccidiosis remain in global poultry production, and what are the implications of suboptimal control?

[Ben Dehaeck] Coccidiosis remains the most important parasitic disease in poultry, especially in broilers. A 2020 study published by Damer Blake indicates a global cost of ~£11.8 billion (between £8.7 – £14.8 billion), which is equivalent to £0.18/chicken produced. This means that the cost of coccidiosis has more than doubled when compared with earlier calculations done by R. Williams in 1999.

Genetic improvements allow birds to grow faster and utilise nutrients more efficiently. Coccidiosis has a devastating impact on intestinal health (without showing clinical signs, like mortality or morbidity) which

will lead to a lower nutrient absorption and thus a slower growth rate and poorer nutrient utilisation. This leads to a reduction in weight gain and increased feed conversion ratio. The negative impact on growth and FCR, without showing clinical signs, is referred to as subclinical coccidiosis, which is the main issue when talking about coccidiosis.

[Feedinfo] Can you break down how vaccination and ionophores, as methods of controlling coccidiosis in breeding flocks, laying hens, and broilers, are employed differently?

[Ben Dehaeck] In most countries, coccidiosis control in breeders and layers is done by applying coccidiosis vaccines, especially in countries where floor housing is used. The goal in breeders and layers is to optimise uniformity of the flock during the rearing phase and stimulate immunity against all relevant *Eimeria* species. In this way, the birds are protected for the rest of their lives and will have optimal production. In other countries, layers are not vaccinated against coccidiosis but receive coccidiostats during the first 10-12 weeks of their life. This helps them develop immunity against all *Eimeria* species present in the rearing house.

Broilers, on the other hand, are traditionally protected against coccidiosis by administering coccidiostats in the feed and ionophores are still the most widely used group of products. In a recent publication by Daniel Parker, the importance of ionophores is highlighted as he indicated that not using ionophores would result in a significant increase in production costs, decrease of animal welfare and have a negative impact on the environment, such as an increase in greenhouse gas emissions.

[Feedinfo] However, you've noticed an increase in the popularity of vaccinations in broilers in the US. Why is that?

[Ben Dehaeck] In the US, some specific labels exclude the use of ionophores leading to an increased use of coccidiosis vaccines. Huvepharma strongly believes that coccidiosis vaccination has its place in annual rotation programmes designed to optimise broiler production as they can help to restore sensitivities towards coccidiostats. In 2021, we published an article in *Veterinary Parasitology* about the restoration of sensitivity of *Eimeria acervulina* to anticoccidial drugs in chickens following the use of a live coccidiosis vaccine (Advent®). It was used in 4 consecutive flocks and resulted in the restoration of sensitivity to a range of drugs currently available for the control of coccidiosis.

[Feedinfo] You have called Sacox® the “gold standard” in ionophores. Why exactly is that? How does it differ from other ionophores?

[Ben Dehaeck] Huvepharma is a global player on the coccidiostat market, giving us a thorough understanding of coccidiostat volumes used globally. For us, salinomycin – which Huvepharma is the only supplier of in the US (Bio-Cox®) and in Europe (Sacox®) – is the “gold standard” as it's the most used ionophore. And with good reason. A recent evaluation of 18 different sensitivity trials, comparing Sacox® with other ionophores frequently used in Europe, revealed that birds had a 3.8g higher average daily weight gain and 3 points better FCR. These results were also confirmed with data from Aviapp®, our avian performance platform, which contains performance results of more than 30,000 flocks and health reports of more than 60,000 flocks.

In addition, in 2017, Sacox® gained a 0-day withdrawal time in Europe, allowing customers to take full advantage of its protection in birds right up to slaughter, adding to its appeal in the industry. Sacox® offers significant value for money and a strong activity against coccidiosis, allowing it to be used at any time during the year, as a single programme, or in a shuttle programme with other anticoccidials.

Furthermore, for ionophores, it's important to have the correct dosing of the product in the feed. Our Sacox® formulation has optimal flowability and the ideal granulometry, thanks to our expertise in fermentation, guaranteeing accurate dosing and mixing for excellent recoveries of salinomycin in feed or premix.

[Feedinfo] Currently there are questions being raised on whether ionophores should be considered as antibiotics. How do ionophores differ from other antibiotics and what would be the implications of such a classification?

[Ben Dehaeck] Ionophores have been used safely for over 45 years by poultry producers across the world. They are classified as antimicrobials in many regions of the world, but according to the World Health Organisation (WHO), they are not listed as critically important antimicrobials for human medicine. This classification is important and the removal of ionophores could lead to a higher usage of critically important antimicrobials. This explains our position towards maintaining ionophores in broiler production.

[Feedinfo] You have stated that rotation between different coccidiostats over time is good practice to avoid the development of reduced sensitivity and thereby loss of efficacy of these tools. What is good practice here?

[Ben Dehaeck] Most producers have a summer and winter programme or a dry and wet season programme, depending on climate circumstances. There's an optimum with regards to the number of rotations per year and the driver should be the coccidiosis pressure in the field. When the coccidiosis pressure is increasing in the majority of the farms, and regular coccidiosis breaks are noted, it is time to rotate to another coccidiostat.

This is why the monitoring of broiler flocks is important as this is the best way to identify trends in coccidiosis pressure. Huvepharma offers support to all our customers through our technical services in the field, external consultants, and Aviapp®. It allows customers to easily input and control their own data so they can track, trend, and monitor the performance of their business (production, or welfare) and, with enough users in a country, they can compare and benchmark this anonymously.

When considering different coccidiostats, we can state that, in general, combination products can be used for longer periods than ionophores and definitely used for longer periods than synthetic products. By respecting the proper usage and rest periods, a customised annual programme can be designed and implemented which will provide the best possible coccidiosis control.

[Feedinfo] Talk to us a bit more about the post-marketing sensitivity work which Huvepharma employs to look at the sensitivities of field strains and the efficacy of coccidiostats. What are some of the key insights of this work that you can share with us?

[Ben Dehaeck] As you mentioned, we perform a lot of sensitivity trials with samples collected from commercial farms from different parts of the world. Evaluating these samples gives us good insight into the sensitivities of the different coccidiostats. The advantage of doing many trials is that we can see trends and evaluate products on the sensitivity against many different Eimeria field strains and determine the general efficacy. The results of these trials coincide with data in Aviapp®. These positive experiences in the field explain why Sacox® remains the most widely used ionophore globally.

To conclude, I would like to say that coccidiosis has only increased in importance over the years, meaning that efficient coccidiosis control is paramount to ensure optimal performance. Sacox® is the gold standard in broiler production and Huvepharma has a large selection of tools and services available to help control coccidiosis, including ionophores, chemicals, vaccines, combination products, a hygiene range, and probiotics to help support the gut through challenging periods. This is all brought together by an experienced team that can help customers continue to make informed decisions that benefit their business.

To know more, please contact Huvepharma technical team



42, 'Haridwar', Road 2 A/B, Kalyani Nagar, Pune 411006

Customer Care Contact: +91 20 2665 4193

Email: salesindia@huvepharma.com

Website: www.huvepharma.com

Source: Huvepharma via Feedinfo

Fun Facts

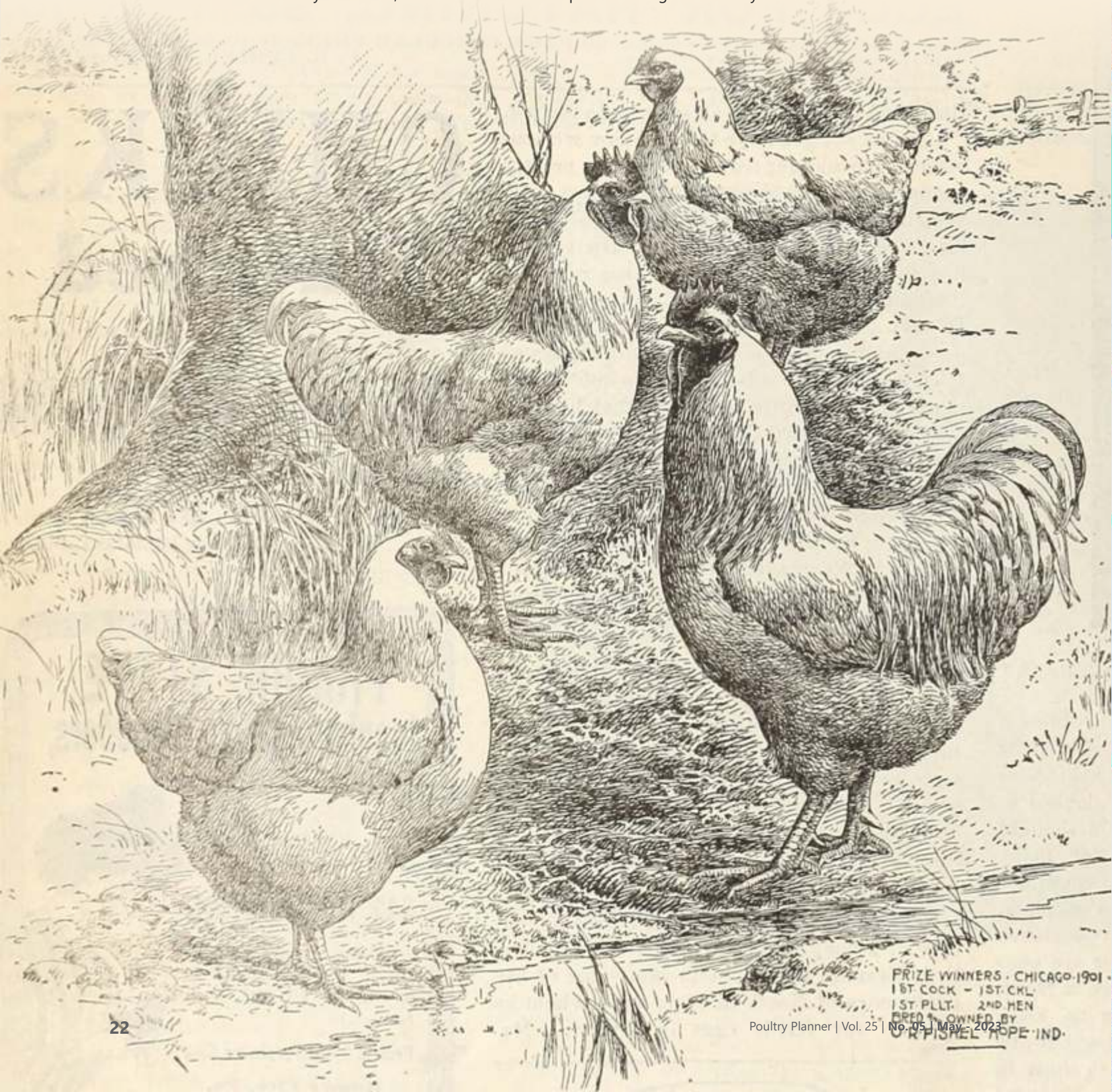


In my travels across the countryside, I happened upon a farm where the farmers had made a most intriguing observation. They had noticed that their chickens, when in deep slumber, exhibited behaviors that suggested they were dreaming.

Now, this may seem a fanciful notion to some, but I assure you that these farmers were men of science, and they had documented their findings with great care and precision.

During the rapid eye movement (REM) phase of sleep, which is a sure sign of dreaming, the chickens' brains became highly active. They would twitch and make small movements with their bodies, as if enacting some sort of dream scenario.

This, my dear reader, is a most intriguing insight into the inner workings of these oft-overlooked creatures. Who knows what secrets and desires may lie hidden within the dreams of a chicken? It is a mystery that may never be fully unraveled, but one that we should ponder with great curiosity and wonder.



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An Interview with Dr. Ezhil Kumar



Dr. A. Ezhil Kumar

Dr. Ezhil Annamalai Kumar, an experienced industry professional and sought-after advisor, has written a fascinating new book entitled "Connecting Fables with The Corporate World." The book, which is autobiographical in nature, is presented in a unique format that is sure to capture the attention of readers.

Dr. Ezhil has chosen to narrate fifty-five fables and link them with fifty-five anecdotes from his own life, drawing connections between the lessons learned from these tales and his own experiences in the corporate world. In an interview with us, Dr. Ezhil spoke about the genesis of his book and how his diverse experiences helped to shape his career. As an Agriculture Officer at Bank of India, he faced significant challenges, including a language barrier and a lack of experience with the local community. However, through perseverance and determination, he was able to overcome these obstacles and earn the respect of his colleagues and superiors.

Dr. Ezhil's book is an engaging and insightful read that draws upon the lessons of traditional fables to provide a unique perspective on the challenges and opportunities faced in the corporate world. It is a must-read for anyone interested in personal growth and professional development.

Dr. Ezhil's determination and resourcefulness in his early career served him well as he progressed to higher levels of management. He recognized the importance of building strong relationships with employees and understanding their perspectives in order to lead effectively. This led him to look beyond traditional management practices and draw on the lessons of fables to illustrate important concepts.

In his book, "Connecting Fables with The Corporate World," Dr. Ezhil shares his unique approach to management and leadership, using personal anecdotes and fables to teach valuable lessons. The book is organized into five sections, each focusing on a different aspect of corporate life: Self, Peers, Boss, Work Environment, and Entrepreneurship. In addition, he includes a section titled Appeal, where he explores the delicate balance between employees and employers.

Throughout the book, Dr. Ezhil draws on his extensive experience in the corporate world to offer practical advice for both new and experienced managers. His approach is grounded in the belief that by building strong relationships with employees, leaders can create a positive work environment that fosters creativity and innovation. His use of fables to illustrate important concepts adds a unique and engaging perspective to the book.

Overall, "Connecting Fables with The Corporate World" is a valuable resource for anyone looking to improve their leadership skills and create a positive work environment. Dr. Ezhil's approach is both practical and insightful, and his use of personal anecdotes and fables makes the book an enjoyable read. It is clear that his early experiences in the banking industry helped shape his perspective on leadership, and readers can benefit from his wisdom and experience.

Here is a brief excerpt from the interview.

How do you stay updated on the latest industry trends and incorporate them into your work?

I recognize the importance of staying up-to-date with the latest trends and advancements. I regularly attend industry conferences and seminars,

subscribe to industry publications, and network with other professionals to gain valuable insights and knowledge. I also encourage my team to stay informed and engaged in the industry, so we can all work together to implement the latest trends and technologies into our work.

How do you prioritize tasks and manage your time effectively while handling multiple responsibilities?

Prioritizing tasks and managing multiple responsibilities is a critical part of effective leadership. I believe in setting clear goals and deadlines, and delegating tasks based on team members' strengths and skillsets. I also make use of time-management tools and techniques to help me stay organized and focused, while ensuring that my team is meeting their goals and deadlines.

How do you handle conflicts or disagreements with team members or colleagues?

Conflicts and disagreements are inevitable in any workplace, but I believe in addressing them in a respectful and constructive manner. I encourage open communication and active listening, so team members can express their concerns and ideas. I also work to foster a culture of collaboration and mutual respect, so team members can work together to find solutions to conflicts.

Can you tell us about a time when you had to negotiate a difficult business deal? How did you approach the situation, and what strategies did you use to achieve a positive outcome?

Negotiating difficult business deals can be challenging, but I approach these situations with a collaborative and solution-focused mindset. I work to understand the other party's needs and concerns, while also advocating for the best interests of my company. I also seek out creative solutions and compromises that can benefit both parties.

In your opinion, what is the most important aspect of workplace ethics, and how do you ensure that your employees adhere to these principles?

What is your approach to managing risk within the company? How do you balance risk-taking with ensuring the long-term stability and success of the business?

I recognize the importance of managing risk while also fostering growth and innovation. I believe in taking calculated risks that have the potential to drive long-term success, while also having contingency plans in place to mitigate potential negative outcomes.

How did your experience as an Agriculture Officer at Bank of India contribute to your professional development and shape your career path?

In the days of yore, when I first entered the service of a bank, I was dispatched to the Kheda District of Gujarat, where I found myself at a loss. I was unfamiliar with both Hindi and Gujarati, and moreover, I was inexperienced in the art of two-wheeled transportation.

The greater part of the bank's patrons were tillers of the soil, who spoke only in the Gujarati tongue, which made communication an arduous task. Consequently, my work

lagged behind the expectations of the higher-ups. One day, my Branch Manager admonished me, saying, "Although you hold a degree in Master of Science, you are behaving like a simpleton, with no understanding of the workings of banking." The following day, he sent a letter to our regional office, citing my inability to drive a two-wheeler and my ignorance of the local language, which resulted in my inefficiency in performing my duties. He petitioned them to take appropriate measures against me. This missive was dispatched after just two months of my employment.

On the next Monday, an official from the Rashtra Basha cell of the regional office visited our branch to conduct an inquiry into my predicament. He questioned me in the presence of my Branch Manager. I informed the inquiry officer that in my joining report, I had stated that I only knew two languages, English and Tamil. I had no knowledge of any other Indian languages. The officer then inquired as to how I intended to learn Gujarati. I humbly requested a two-month period to learn Gujarati initially and assured him that I would later learn Hindi. The officer then questioned me about my ability to operate a two-wheeler. I promised him that I would learn to ride as soon as possible.

Previously, my Agricultural Assistant, Shri Vipulbhai Patel, used to ferry me around the fields. After this discussion, I implored Shri Patel to allow me to practice on the bank's Rajdoot two-wheeler. From that point forward, whenever we ventured out into the fields, I spent half an hour with him learning how to ride the Rajdoot motorcycle. Within two months, I had gained the confidence to operate the motorcycle independently. At the same time, I approached a Gujarati Professor, Shri. Dave, who was employed at a Government College in Borsad. He agreed to tutor me in Gujarati for two hours every Saturday and Sunday. This was how I gradually picked up the Gujarati language by studying Gujarati textbooks from the first to the fifth standard.

Three months later, the officer from the Rashtra Basha cell returned to our branch to evaluate my progress. By then, I had obtained my driving license, which was one of the two obstacles overcome. Furthermore, my fluency in Gujarati had improved slightly. The officer expressed his satisfaction and urged me to concentrate on improving my knowledge of Gujarati further. My tuition classes were ongoing, and within another two months, I became fluent in spoken Gujarati. After mastering the language and gaining the ability to ride a two-wheeler independently, I could venture out into the fields to meet the farmers.

When the Agriculture Officer at the regional office went on an extended leave, I was dispatched to the regional office at Baroda to clear all the agricultural loan proposals. During my one-month tenure in the regional office, I was praised for my work. Whenever higher-ranking officers were on leave, I would request my Branch Manager to permit me to perform their duties. This enabled me to learn the preparation of balance sheets, verification of daily cash books, and other tasks that were supposed to be handled by the Branch Manager in the absence of senior officers. This lightened his workload, which pleased him immensely.



The U.S. Department of Agriculture (USDA) announced the availability of up to \$125 million through two new grant programs that will create more options for meat and poultry farmers by investing in independent, local meat and poultry processing projects that increase competition and enhance the resiliency of the food supply chain.

These new grant programs, the Indigenous Animals Harvesting and Meat Processing Grant Program and the Local Meat Capacity Grant Program, are part of the broader \$1 billion American Rescue Plan investment by the Biden-Harris Administration to expand processing capacity for small and midsized meat and poultry processors.

"This is the latest step in USDA's transformational work to fill gaps and help small and underserved producers market their products, support thriving local and regional food systems by investing in processing capacity that's closer to farms, and alleviate major bottlenecks in food and agricultural supply chains," said Agriculture Secretary Tom Vilsack. "Importantly, we're also taking steps to increase the overall availability of protein from indigenous animals like bison, reindeer and salmon, which have been the backbone of tribal food systems for generations."

Since July 2021, for example, USDA has worked with 30 businesses to

USDA Announces Funding Availability to Expand Meat and Poultry Processing Options for Underserved Producers and Tribal Communities

expand their operations through Meat and Poultry Processing Expansion Project grants and has helped many more work towards a federal grant of inspection through Meat and Poultry Inspection Readiness Grants.

About the Indigenous Animals Harvesting and Meat Processing Grant Program

This new grant program will provide up to \$50 million to improve tribal nations' food and agricultural supply chain resiliency by developing and expanding value-added infrastructure related to meat from indigenous animals like bison, reindeer or salmon. The program will fund projects that focus on expanding local capacity for the harvesting, processing, manufacturing, storing, transporting, wholesaling or distribution of indigenous meats.

"This is a historic investment to support indigenous food supply chains by enhancing community food sovereignty and traditional harvesting methods," said USDA Office of Tribal Relations Director Heather Dawn Thompson. "Tribal nations have clearly articulated their priorities to USDA over the last two years, and this program directly responds by focusing on species and activities which have historically not had significant access to funding in federal programs."

"For too long, Native American farmers and ranchers have been asked to produce more to meet increasing demand across the country and around the world, while they and the tribal communities they come from have struggled to see their fair share of the benefits," said

USDA Under Secretary for Rural Development Xochitl Torres Small. "Under the leadership of the Biden-Harris administration, USDA is proud to offer this investment in tribal nations' food chain resiliency as a part of USDA's broader efforts to restore indigenous food ways. By expanding and enhancing local processing capacity, these projects will provide culturally appropriate food and community food security to tribal communities."

Eligible applicants are Indian tribes, as defined by the Federally Recognized Indian Tribe List Act of 1994, as well as wholly-owned arms and instrumentalities, and joint or multi-tribal government entities. USDA partners with tribal-serving organizations on projects to reimagine federal food and agriculture programs from an indigenous perspective and inform future USDA programs and policies.

More information is available on USDA's Indigenous Animals Grants webpage. Applications will be accepted through July 19, 2023.

About the Local Meat Capacity Grant Program

The Local Meat Capacity Grant program will provide up to \$75 million in grants to fund innovative projects designed to build resilience in the meat and poultry supply chain by providing producers with more local processing options and strengthening their market potential. This grant program is targeted to support meat and poultry processors with smaller-scale projects, with a goal to increase processing availability and variety for local and regional livestock producers.

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“Local and regional meat processing is an important part of a resilient food supply chain. It not only provides producers with diverse processing options in their areas, but it also adds infrastructure, income and jobs in communities and provides more choices for consumers,” said USDA Marketing and Regulatory Programs Under Secretary Jenny Lester Moffitt. “These Local Meat Capacity grants will provide local livestock and poultry producers with more and better options by modernizing, diversifying, and decentralizing processing capacity. As part of the Biden-Harris administration’s comprehensive approach to transforming the food system from farm to fork, this program complements other USDA grant programs building capacity along the supply chain, like the Meat and Poultry Processing Expansion Program, by providing targeted support for meat and poultry processors with smaller-scale projects.”

The Local Meat Capacity Grants will fund both expansion and equipment-only projects through a competitive grant process. USDA encourages applicants to engage with livestock producers, especially small and underserved ranchers.

More information is available on the Agricultural Marketing Service’s Local MCap webpage. Applications will be accepted through July 19, 2023.

Both grant programs are aligned with USDA efforts to:

- Ensure equitable access to USDA programs and benefits from USDA-funded projects and support the policies of Executive Order 13985 on Advancing Racial Equity and Support for Underserved Communities Through the Federal Government.
- Contribute to the resilience of the food and agricultural supply chains through support for diversified, value-added agriculture and support the

policies of Executive Order 14017 on America’s Supply Chains.

- Promote competition in the food system and support the policies of Executive Order 14036 on Promoting Competition in the American Economy.

USDA touches the lives of all Americans each day in so many positive ways. In the Biden-Harris Administration, USDA is transforming America’s food system with a greater focus on more resilient local and regional food production, fairer markets for all producers, ensuring access to safe, healthy and nutritious food in all communities, building new markets and streams of income for farmers and producers using climate smart food and forestry practices, making historic investments in infrastructure and clean energy capabilities in rural America, and committing to equity across the Department by removing systemic barriers and building a workforce more representative of America.

News

New report shows poultry sector burdened by expectations

Simpson Centre paper calls for increased research, financial sustainability for sector

The Simpson Centre for Food and Agricultural Policy has released a report detailing its findings on challenges now facing Canada’s poultry sector.

The report, co-authored by research assistant Shawn Wiskar and centre director Guillaume Lhermie and released Thursday, used a focus group of six stakeholders in the Canadian poultry industry. It recommends several measures, primarily focused on increasing research and streamlining existing systems.

In its conclusion it states that “with the small size of Canadian poultry farms, expectations are placed unfairly on farmers across the country, creating regional strain and limiting the market’s ability to grow.”

Wiskar said the research for the report, which began last year, was “conceptualized out of an idea that it was really important for public policy to be built out of evidence-based and informed policy

from producers.”

The think tank, which focuses on ag sector policy analysis and is based at the University of Calgary’s School of Public Policy, “was really trying to function here as kind of a bridge-builder between the government of Canada as well as the government of Alberta and the producer groups,” he said.

The four main policy changes the report recommends are:

- An increase in provincially funded research;
- Streamlining of the approval process for vaccines already approved in comparative markets;
- A comprehensive analysis of the poultry supply chains in other countries; and
- Increased communication between poultry producers and the federal and provincial governments.

“We certainly hope at the very least this gets a conversation started between the

producer groups and the government,” Wiskar said.

“The takeaway message from this report is that we think there is an increased need for efficiency in these markets, and the first step to that is improving communication between the different levels of government, the different commodity groups, as well the overarching marketing board.”

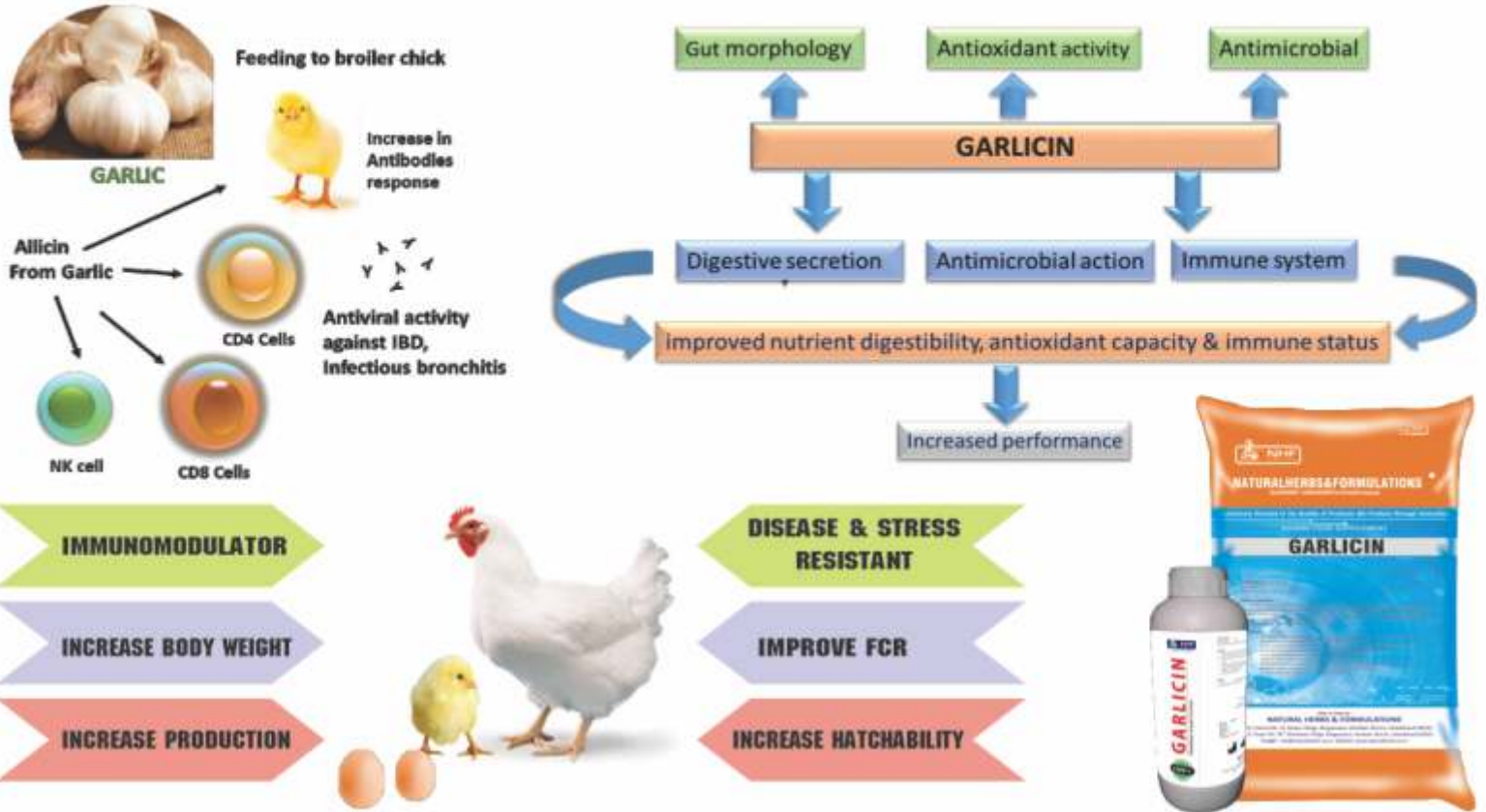
Wiskar said that the poultry sector’s quota system was also a topic of concern for its focus group.

“Canadian poultry farms are a lot smaller, and their operations have to be smaller, due to the quota system, when you compare it to something like the beef sector, which doesn’t have that quota system.”

In the section on sector challenges, the report calls the quota system a “barrier to entry in the poultry sector, as farmers must bid to purchase a quota of production.”

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Media Release
April 18, 2023



Alltech's Dr. Aman Sayed Shares His Career Journey



Dr. Aman Sayed is the managing director of India and regional director of South Asia at Alltech. He earned his master's degree in veterinary (Poultry) science from Bombay Veterinary College and was honored with gold medal distinctions both at graduation and post-graduation. In the mid-2000s, through the work he completed during the last year of his master's program, he realized that there weren't enough veterinary specialists in the field and that customers were in dire need of professional assistance. This realization led him to begin pursuing roles in privately owned enterprises.

His journey began in the year 2000, with setting up an R&D

farm for an Iowa-based multinational firm, where he was later elevated to a technical position serving West India. In 2003, he joined Emirates Agriculture Technologies to oversee a free-range poultry project in Sharjah. He gained job experience in Dubai during his time in the Middle East and established Kentucky Equine Research's operations there, working in the equine racing industry.

The opportunity to join Alltech knocked on his door in 2005, and Dr. Sayed recalled that moment by saying, "It has been said that everything comes to you at the correct time and that you need to trust the process, and this exactly defines my career."

He initially had the chance to meet Alltech's creator, Dr. Pearse Lyons, in 2006. Dr. Sayed was profoundly impacted by his encounter with Dr. Lyons on multiple levels. Dr. Sayed has always been driven by and remains motivated by Dr. Lyons' philosophy that problems need to be proactively addressed as soon as possible rather than waiting for them to happen and then reacting. Dr. Lyons' advice inspired him to always go that extra mile and helped him land in his current position.

While working at Alltech, Dr. Sayed has learned that every day is a new day and a new beginning. He wants his team to maximize business growth and serve customers to the very best of their ability.

Over the course of more than 17 years with Alltech, Dr. Sayed has held a number of positions, rising from business development



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manager to regional area manager for the business's poultry and dairy operations in West India. Later in his career, he took on the responsibilities of general manager of sales for North India and started to manage the markets in Bangladesh and Nepal. He eventually rose to the position of general manager for Poultry in India before being elevated to general manager of South Asia in 2012.

He has participated in numerous professional training programs, including the Alltech Mini-MBA program in collaboration with the University College Dublin Michael Smurfit Graduate Business School in Ireland, in addition to getting experience while managing Alltech's multispecies business unit. He gained knowledge from the course about the value of preserving an entrepreneurial attitude and being prepared to take financial risks in order to turn a profit.

As someone who serves in a decision-making role, Dr. Sayed has the responsibility of building a team of people who have a strong work ethic. He consistently assesses

team members based on three fundamental values: honesty, openness and diligence. He thinks that everyone who works for any company should uphold these fundamental values. A person's ethics and morals, a growth-focused attitude, and a high degree of engagement, both personally and professionally, can be seen in this trio of characteristics.

Over his 23-year career journey, Dr. Sayed has experienced both calm and rough waters while making challenging decisions related to driving business growth and profitability. To tackle these challenges, he has always strived to make unbiased decisions guided by the core principles of business growth – but he also endeavors never to neglect the human aspects of empathy, compassion and emotion.

In 2019, Dr. Sayed had a meeting with Dr. Mark Lyons, Alltech president and CEO, where the Indian Poultry Journalists Association posthumously honoured Dr. Pearse Lyons with a Lifetime Achievement Award. At the event, Dr. Mark Lyons spoke about Alltech's purpose of Working

Together for a Planet of Plenty™ and invited everyone to collaborate, across industry sectors and geographical boundaries, to create a place where animals, plants and people thrive in harmony.

"I am so delighted to be a part of this vision, which focuses on creating a world of abundance for future generations," said Dr. Sayed. "This mission continues to drive me to make a positive contribution, as the only way to do exceptional work is to enjoy what you do. I feel passionate and energetic about what I do at Alltech; it's what I live and breathe."

Dr. Mark Lyons has shared the proverb, "If you want to travel fast, go alone; but if you want to go far, go together." Dr. Sayed is a great supporter of teamwork above individual performance, and taking that route has gotten his team to where they are today. This motto makes him even more ambitious, and he hopes to serve in larger geographic areas in the future.

"Because of their sheer dedication and contributions to society and to my life, I will always be grateful to the Lyons family," said Dr. Sayed.

About Alltech:

Founded in 1980 by Irish entrepreneur and scientist Dr. Pearse Lyons, Alltech delivers smarter, more sustainable solutions for agriculture. Our diverse portfolio of products and services improves the health and performance of plants and animals, resulting in better nutrition for all and a decreased environmental impact.

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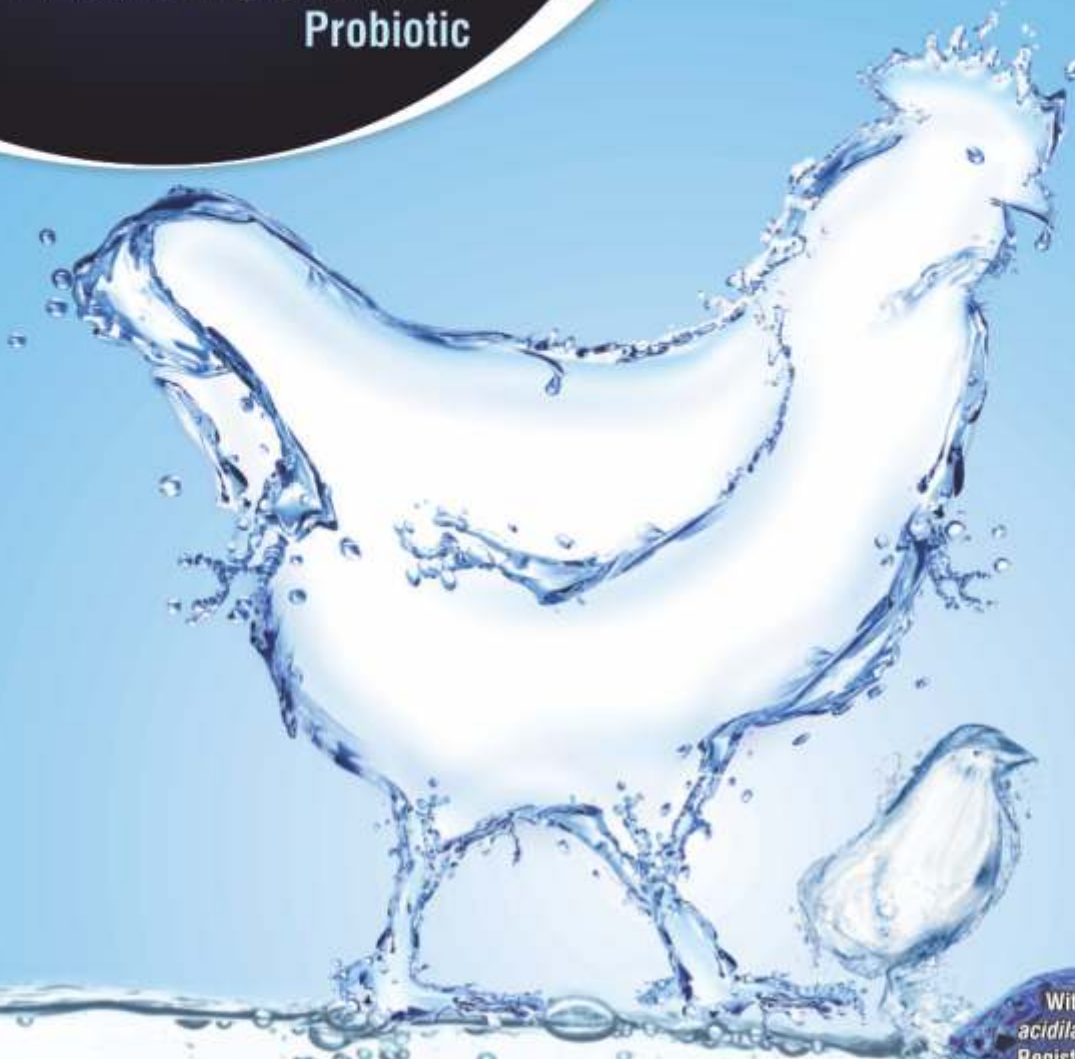
Strengthened by more than 40 years of scientific research, we carry forward a legacy of innovation and a unique culture that views challenges through an entrepreneurial lens. As a private, family-owned company, we adapt quickly to our customers' needs and focus on advanced innovation.

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Headquartered just outside of Lexington, Kentucky, USA, Alltech serves customers in more than 120 countries, has five bioscience centers, and operates more than 80 manufacturing facilities across the globe.

For more information about Alltech India, visit www.alltech.com/en-in.

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Report on Comprehensive Refresher Programme (CRP) Conducted by Centre of Excellence for Animal Husbandry, Animal Husbandry Academy of India, Hessarghatta, Bengaluru, 56008 From 24th to 28th April, 2023

CEAH-Bengaluru – Animal Husbandry Academy of India is setup under Government of India, Ministry of Fisheries, Animal Husbandry & Dairying, and Department of Animal Husbandry & Dairying as a consortium of 5 organizations at Hessarghatta vide Order No. F.A-430011/3/2023-Estt(HQs), dated, 14th March, 2023. This Academy is formed as per the guidelines of DoPT for National Programme for Civil Service Capacity Building (NPCSCB) under “Mission Karmayogi” of Government of India.

CEAH-Bengaluru is spread over 642

acres distributed in four campuses at Hessarghatta. Campus – 1 consists of Central Poultry Development Organization & Training Institute (CPDO&TI), Campus – 2 consists of Central Frozen Semen Production & Training Institute (CFSPTI) and Central Cattle Breeding Farm(CCBF), Campus – 3 consists of Animal Quarantine and Certification Services(AQCS) and Campus – 4 consists of Regional Fodder Station(RFS).

CEAH Bengaluru has state of art automation units at poultry, Modern dairy sheds, ET lab, Sex-sorted semen



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lab, International Animal Quarantine facility, biggest fodder unit in the country with latest technology adoption for irrigation. The Academy consists of four campuses with conference halls, class rooms, officers and farmers hostels with boarding and lodging facilities.

CEAH Bengaluru Academy organized a Comprehensive Refresher Programme for Young Veterinary Professionals (batch size 20) from 24th to 28th April, 2023. This course is planned with a 360 degree approach for knowledge enrichment and generic issues with the following outcomes expected to be covered:

Candidates were exposed to information on Govt. institutions of State and Central of Department of Animal Husbandry & Dairying across the country. Latest innovations, gov. schemes of both state and central sector, soft skills for adoption in service delivery, successful business models, project report analysis, activity based learning including pre-training and post-training analysis. The young veterinary professionals will be motivated and trained in the modern challenges of Animal Husbandry Sector.

On 24th April, 2023, Sri. G.N. Singh, Joint Secretary (Admin), Ministry of Fisheries, Animal Husbandry & Dairying, Department of Animal Husbandry & Dairying New Delhi inaugurated the programme online. In his inaugural address, he briefed the

mandates of CEAH Bengaluru the consortium of 5 organisations to aspire to be best Animal Husbandry Academy in India with state of art infrastructure facilities and a robust revenue model. He appreciated the efforts of Director and team to conduct this programme within short period of time. He wished all the participants from 10 districts for a pleasant stay and a greater knowledge exchange during the programme.

All trainees were given a digital pre-training analysis through Google Forms by **Sri. S.M. Anwar Basha** with a pre-designed format to understand the training needs of officers in various subjects.

Dr. Mahesh P.S. Joint Commissioner & Director of CEAH academy made a presentation on Prospects of Indian Animal Husbandry Sector which is estimated to be double the Automobile sector (7.5 lakh crores) contributing about 15 lakh crores to the Indian GDP. The Dairy sector is estimated to be about 8 to 10 lakh crores, poultry 2 lakh crores and rest three lakh crores is from small ruminants etc. Indian Animal Husbandry Sector is most promising with a sustained growth for rural economy, employment and nutritional security.

In the afternoon, trainees were taken to **CEAH Campus-1** CPDO&TI to visit automation units in poultry, feed mill, hatchery and demo unit. They were all briefed by **Dr. Sonali Nanda** and **Dr.**

Balraj about requirements of Automation, Fundamentals of Feed Mill and Hatchery at the field.

Dr. Raghavendra Bhatta, Director, ICAR-NIANP made a elaborate presentation on structure of ICAR, Animal Sciences Institutions in ICAR being third largest group with being 19 in number. Preceded by Horticulture Institutions, 23 and Crop Sciences institutions at the top with 27 institutions under ICAR in India. Under Animal Science, there are two deemed Universities, 9 National Institutes, one Bureau, 5 National Research Centres, one Directorate and one Project Directorate involved in Research & Development on Animal Science in the country. Dr. Bhatta presented in detail about NIANP and technology developed at this centre with a lot of commercialization of the concept from NIANP.

On Tuesday, 25th April, 2023 **Dr. Mahesh P.S.** presented on Indian Animal Husbandry Schemes with a mandate of Govt. of India towards quality services at farmers doorsteps (mobile veterinary clinics), entrepreneurs development(NLM, AHIDF) eradication of animal diseases(ASCAD) and Livestock Development (Rashtriya Gokul Mission), Breed Multiplication Farms, National Programme on Dairy Development, Accelerated Breed Improvement Programme feed and fodder development, livestock insurance etc.

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Dr. Debalina Mitra, Assistant Commissioner, DAHD joined online from New Delhi and gave a demo for online application of the schemes namely, National Livestock Mission and Animal Husbandry Infrastructure Development Fund(AHIDF) through the portal namely (nlmudyamimitra.nic.in and ahidfudyamimitra.nic.in). **Dr. Sonali Nanda**, Assistant Director made a presentation on activities of CPDO&TI including the future proposed activities at CPDO&TI. **Dr P. Nallappa**, Managing Director, Jagadish Poultry Farm, a successful entrepreneur in poultry made elaborate presentation on Economics of Broiler and Broiler Breeding Farms with unit cost and suggestions for adaptation to make poultry enterprise most profitable venture.

In the afternoon, trainees visited **CEAH campus-2** to visit facilities of Central Frozen Semen Production and Training Institute(CFSPTI) and Central Cattle Breeding Farm(CCBF). They appreciated the facilities of Semen Lab, ET lab, cattle sheds, milk collection etc. **Dr. Bhaskar**, Deputy Commissioner, **Dr. Atulya M.**, Asst. Commissioner and **Dr. Abdul**

Salam, Livestock Officer explained the facilities. This was followed by presentations by **Dr. Arun Prasad**, Joint Commissioner, CFSPTI and **Dr. Holabasappa Teggi**, Joint Commissioner, Central Cattle Breeding Farm (CCBF) on activities of CFSPTI and CCBF respectively.

On 26th April, 2023, Wednesday, **Mr. Santosh**, a sheep entrepreneur presented the success story with interesting facts of Nomadic Herds of Sheep across India with a very sustainable profitable sheep farming. He mentioned in his address that money saved is money made in sheep farming with greater control on inputs. The stall feeding of sheep farming has its own challenges that require higher cost, commitment and proper marketing strategy. Later this session was followed by **Mr. V. Sudhindranath**, Desi Cow farming entrepreneur of "Naati Hasu Goshala" with a brand name "Pashu Thai" for the products of the organization. He is maintaining more than 500 desi breeds with more than 10 breeds of desi origin. He has been very successful in producing various products under his venture

namely, Panchagavya, Agnihastra, Balms, Phenyls, Health products etc., by adopting innovative interventions like chaff cutting, silage making, gobar gas production, multistoried cow sheds, solar adaptations etc. **Dr. Mahesh P.S.** guided the trainees on the topic of Communication and Presentation Skills.

In the afternoon, trainees visited **CEAH Campus-4** to visit Regional Fodder Station, wherein they were exposed to fodder demo plots, fodder seeds display with a brand "Fodder Gold" followed by demonstration of Rhodes cultivation. The trainees were taken to Artificial irrigation pond which is recently developed at this centre with 100ft x 100ft x 12 ft depth holding more than 20 lakh liters of water for sprinkler irrigation. **Dr. Aditya and Sri. Ashwathappa** made presentations about fodder management for the trainees.

On 27th April, 2023, the session started at 9.00 am with **Prof. Dr. Vivek Patil** from KVAFSU, Bengaluru dealing on Animal Husbandry Projects and analysis. In his three hours deliberation, he demonstrated salient features of





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Dairy Project in detail including calculation of ratios and feasibility concerns. This session was followed by **Dr. Gopakumar**, CEO and Managing Director of DLG farms India (USA) on successful piggery enterprise in detail with ideal 3 way crossing, breeder model, franchise model, piglet fattening model etc to make piggery one of the most successful enterprise.

In the afternoon, Trainee officers visited **CEAH Campus-3** Animal Quarantine Certification Services (AQCS). **Dr. Tapan Kumar Sahu**, Deputy Commissioner along with **Dr. Nivedita**, Quarantine Inspector made presentations about requirements of export / import of livestock products through AQCS Bengaluru and provisions of Livestock Importation Act. Later they were shown all the facilities of AQCS. In the evening for the first time CEAH Academy introduced "Activity Based Learning" which was conducted by **Dr. Sridhar Murthy**, President, NSB Academy Bengaluru along with their expert team. Trainee officers along with CEAH academy team participated with

highest enthusiasm till 8.00 pm.

On the last day, 28th April, 2023, trainees visited "Naati Hasu Goshala" at Kakolu early in the morning 7.00 am to appreciate the activities at the Desi Cattle Farm. Later **Dr. Jayaramaiah**, Chief Veterinary Officer, State Animal Husbandry Training Centre, Hessarghatta presented on Department of Animal Husbandry Schemes of Govt. of Karnataka. This is followed by **Dr. Vinod Bhat**, Joint Commissioner, Govt. of India and Secretary Veterinary Council of India joined online for the presentation on Veterinary Council of India and issues of Veterinary profession. The last session was presented by **Dr. Mahesh P.S.** with a future vision of Animal Husbandry Sector and Vet as a successful entrepreneur. **Mr. S.M. Anwar Basha** issued trainees Post Training google forms to seek their feedback in both google forms and written feedback.

The CRP programme concluded with a Valedictory Function chaired by **Dr. Mahesh P.S.** Joint Commissioner & Director of Academy along with

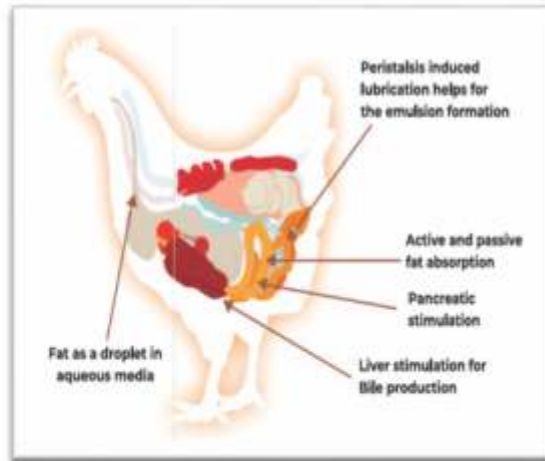
Divisional Heads. Each trainee officer were given with Kit consisting of (Executive Bag, CEAH memento, Certificate, Group Photograph and Card Drive(pen drive) consisting of all the presentations made during the five days. The trainee officers expressed their satisfaction and they rated the programme as Excellent in both "Google forms under post-training analysis and written feedback).

Dr. Mahesh P.S., acknowledged the tireless efforts of the entire Academy Team both the front end and back end consisting of logistics, hotel arrangements, outdoor team, etc for making this programme very successful. Govt. of Karnataka in principle agreed to depute one batch of 20 trainee officers every second week of the month starting from May, 2023 onwards for the future batches. The other states are also sought to write to us for their need for such Comprehensive Refresher Programmes for their young veterinary professionals at this CEAH Bengaluru-Animal Husbandry Academy of India.



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Comedy is No Joke #2

Summer is here. The sun will soon turn bright white during the afternoons, which is not good for us and the chickens. While we humans can retreat to air-conditioned rooms and sip on chilled beverages, the chickens are left to fend for themselves in the hot and humid weather. It's like a cruel joke the universe is playing on these poor creatures.

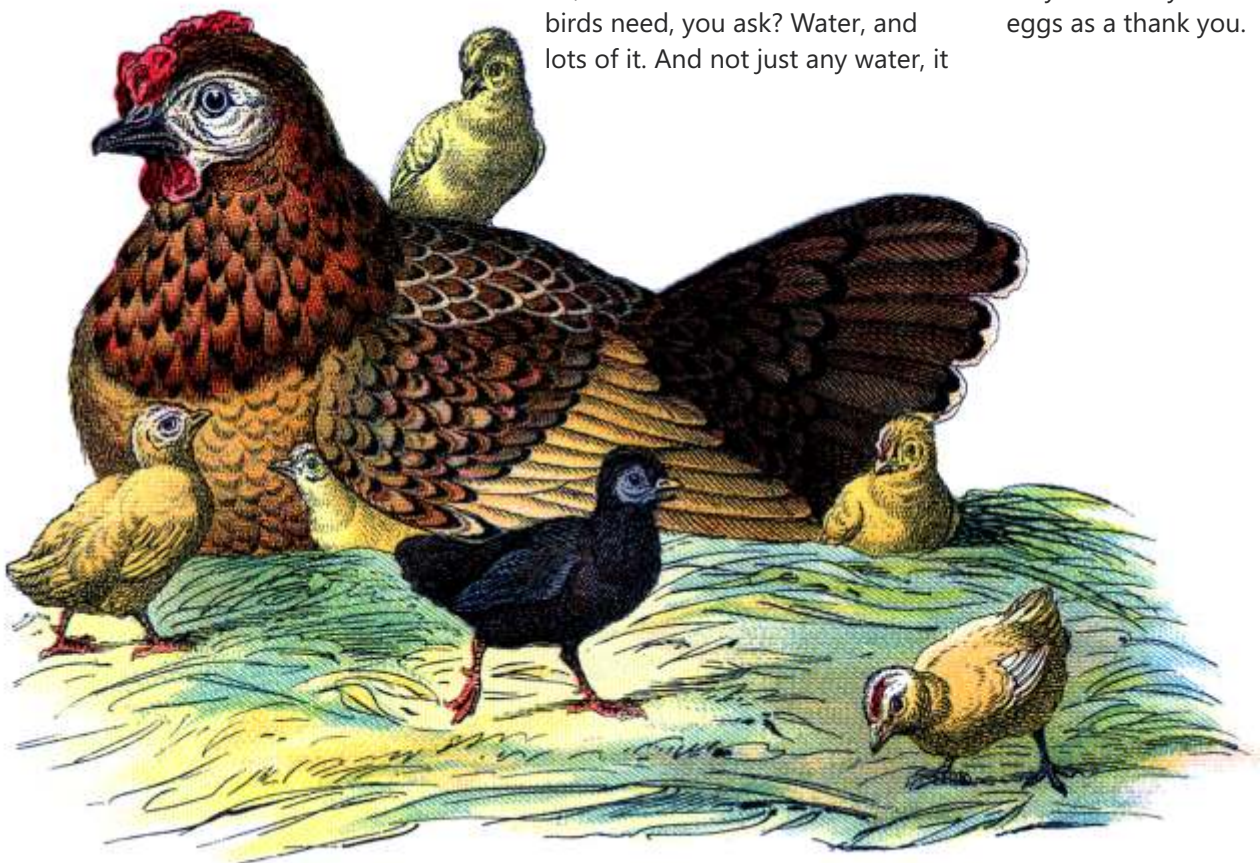
Imagine being stuck in a furry jacket in 40-degree weather. That's what these feathered friends must deal with. No wonder they're always flapping their wings around, they're trying to catch a breeze! But alas, there's no breeze to be caught in a stuffy coop. One can only imagine the agony they go through, what with their heavy feathers and lack of sweat glands.

So, what do these heat-stricken birds need, you ask? Water, and lots of it. And not just any water, it

must be cool and refreshing. Because, let's face it, we all like a good sip of cold water in the scorching heat, and chickens are no exception. And not just any old container will do either. No, no, they need a special container with a proper water feeder that ensures they don't get their beaks all wet and soggy.

These chickens also need some proper ventilation. You can't just expect them to sit in a stagnant, smelly coop and be okay with it. They need some air flow, some breeze, some ventilation action. They don't want to be panting like a dog in heat, do they?

Let's get our priorities straight, people. Let's give these chickens the cool water and breezy coops they deserve. Who knows, maybe they'll even lay some extra juicy eggs as a thank you.



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Professor Poultry #2

Professor Poultry's office. Mr. Common, a backyard poultry owner, enters the room.]

Professor Poultry: Welcome, Mr. Common. What brings you here today?

Mr. Common: Hi, Professor. I am a bit worried about my chickens with the summer approaching. I was hoping you could give me some tips to keep them healthy during the hot weather.

Professor Poultry: Of course, I'd be happy to help. The summer months can be challenging for poultry owners, especially in hot and humid climates. What specific concerns do you have about your chickens?

Mr. Common: Well, I'm concerned about heat stress and dehydration, and also the risk of diseases spreading due to the warm weather.

Professor Poultry: Yes, those are valid concerns. The first thing to keep in mind is to provide adequate shade and ventilation for your chickens. You can do this by setting up shade nets, fans or exhaust fans in the coop. You can also add a shallow tray of water for them to cool their feet.

Mr. Common: That's a good idea. What about the water supply? How can I make sure they have enough clean water to drink?

Professor Poultry: Good point. You should make sure to change the water frequently, at least twice a day, and add ice cubes to keep the water cool. You can also add some electrolytes to their drinking water to prevent dehydration.

Mr. Common: That's helpful. What about the risk of diseases spreading?

Professor Poultry: Well, hot weather can increase the risk of bacterial and viral infections. It's

important to keep the coop clean and dry and to maintain good hygiene practices. You can also give your chickens some natural immune boosters like garlic or apple cider vinegar.

Mr. Common: That's great advice, Professor. I will make sure to keep my coop shaded during the hottest parts of the day.

Professor Poultry: Another thing to keep in mind is hydration. Chickens need plenty of clean, fresh water during the summer months to prevent dehydration and heat stress.

Mr. Common: Yes, I always make sure to refill their waterer daily and add ice cubes to keep it cool. Is there anything else I can do to keep my chickens healthy during the summer?

Professor Poultry: It's also important to keep an eye out for signs of heat stress, such as panting, lethargy, and loss of appetite. If you notice any of these symptoms, you can cool your chickens down by placing frozen water bottles in their coop or spraying them with a mist of water.

Mr. Common: That's good to know. Thank you, Professor, for all the helpful advice. I feel much more confident in keeping my chickens safe and healthy this summer.

Professor Poultry: You're welcome, Mr. Common. Remember, keeping your chickens cool and hydrated during the summer months is key to preventing heat stress and ensuring they stay healthy and happy. The summer heat can be a big challenge for chicken farmers, but there are some simple steps you can take to help keep your birds cool and healthy.

Mr. Common: That's good to hear, Professor. What are some of the

things I can do to protect my chickens during the hot summer months?

Professor Poultry: Well, one of the most important things is to make sure your chickens have access to plenty of fresh, clean water at all times. During the summer, chickens can get dehydrated very quickly, which can lead to serious health problems.

Mr. Common: Okay, I'll make sure to keep an eye on their water supply. What else can I do?

Professor Poultry: Another thing you can do is provide shade for your chickens. This can be as simple as putting up some tarps or other coverings to create a shaded area in their enclosure.

Mr. Common: That makes sense. I'll see what I can do to provide some shade for them.

Professor Poultry: You might also want to consider giving your chickens some cooling treats, like frozen fruit or vegetables. This can help keep them hydrated and cool at the same time.

Mr. Common: Oh, I hadn't thought of that. That's a great idea!

Professor Poultry: And finally, make sure to keep a close eye on your birds during the hottest parts of the day. If you notice any signs of distress, like panting or lethargy, it's important to take action right away.

Mr. Common: Thank you, Professor. These are all great tips. I'll make sure to follow them to keep my chickens healthy and happy this summer.

Professor Poultry: You're very welcome, Mr. Common. And remember, if you ever have any other questions or concerns, don't hesitate to reach out to me or another poultry expert for advice.

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Broilers: challenging times demand focus on details

Change was in the air at this year's Northern Broiler Conference in North Yorkshire, with topics on the agenda ranging from gut health and coccidiosis control for slower-growing broilers, to insects as animal feed and coping with economic pressures.

Future research and development in slower-growing breeds will focus on the European Chicken Commitment and the Dutch 'Beter Leven' (Better Life label) 56-day winter garden production system in the Netherlands.

James Bentley, Hubbard Breeders global technical director, said these 2 are the main volume sectors growing in Northern Europe, with 340 companies now signed up to the European Chicken Commitment, including Marks and Spencer with its Oakham Gold range, with others waiting to decide by the end of the year.

Coccidiosis management

Bentley said there was more opportunity for coccidiosis to take hold in slower-growing breeds, so good management was key, especially in the first week, with a focus on the birds' appetite and water intake with more water nipples per number of birds compared to conventional production.

Commenting on crop fill targets, Bentley suggested they should be at least 80% 8 hours after placement and 96% within 24 hours of placement.

One degree extra

Chicks should be housed with a slightly higher ambient temperature at day one (+1°C) with a targeted vent temperature of 39.5-40.5°C. For free-range systems, the ambient temperature needs to be reduced more quickly to reach a target of 23°C at 21



days.

Sometimes there is a risk that the litter may be too dry due to the lower density and body mass of the birds, so producers should think about changing the ventilation profile based on the smaller number of birds in the house, longer growing period and growth curve.

Bentley urged producers to carry out sample weighing so that bird growth can be monitored at key ages and management adjusted if they are not growing correctly. Changes should be made based on body weight and not age. With birds going to 56 days there is more time for the feed intake factor to take hold. For example, when looking at costs in an organic setting, is there a penalty for overweight birds?

An early-warning system based on blood biomarkers and big data techniques gives poultry producers greater insight into what happens in birds, giving them enough time to address issues before they cause significant losses. DSM's senior director of precision nutrition and health, Scott Cavey, explains.

Farmers could consider vaccinating against Gumboro, and for some in Eastern and Central Europe to combat Marek's disease. However, figures from the Netherlands show the percentage of flocks not treated with antibiotics last year among slower-growing breeds was 97% compared with 72% for conventional flocks.

Interestingly, the percentage of slower-

growing chicks has risen from just 8.4% in 2014 to 55.4% last year. So, how does this management affect coccidiosis in slower-growing birds? Bentley quoted 2 papers by Giles and others that showed that conventional versus slower-growth genotypes have different gene expression profiles in response to the coccidiosis challenge.

There is faster tissue repair in conventional birds and slow-growing birds provide more immunosuppression early in the infection. There are also different responses to E. Maxima challenge at 13 days post-infection, with lower detection of the E. Maxima genome in slower-growing breeds. This suggests these birds had a smaller load of E. Maxima.

Subclinical coccidiosis at a later age

Bentley concluded that severe coccidiosis was not commonly observed in slower-growing breeds but that producers should check for mild subclinical coccidiosis at older ages (36-40 days), rather than the 22-28 days for conventional broilers.

Evidence of mild coccidiosis ranges from wetter litter (but this was not always significant), more flock-to-flock variation (especially in FCR) and poor uniformity, with downgrades in some flocks.

Best approach for dealing with economic pressures

Ongoing high and volatile feed, energy and freight costs are set to affect broiler producers who will also have to face

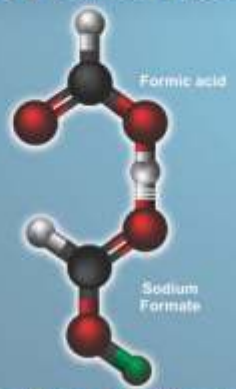


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potential global supply problems caused by avian influenza. Alongside geopolitical challenges impacting global trade, such as wheat, soybean and corn-based diets, the sector faces some tough challenges ahead.

Andrew Catlett, Cobb Europe nutritionist, said one way to mitigate high feed costs was through precision nutrition, adjusting nutrient specifications to see how “low you can go” and therefore mitigating against rising feed costs. Catlett told delegates that precision nutrition was the precise matching of nutrient supply with bird requirements, ensuring greater efficiency, better quality, less environmental impact, with increased profitability and sustainability. So, the use of blender feeds to meet the dietary requirements of the birds was key, rather than the traditional 4-phase feeding system. But Catlett acknowledged its limitations: “Feed mill capability is an issue – they do not want to supply 12 feeds rather than 4 – and if this was to be done on farm, bin availability would result in capital expenditure”.

Look closely at protein levels

But he argued that the industry needs to look much more closely at ingredient composition, highlighting that producers purchasing soybean meal from around the world were likely to get very different protein levels depending on the source country. Protein levels could well be as high as 47% in exports from the US and Brazil, with 46% from Argentina and 45% elsewhere. Similarly, when analysed, corn protein levels from different feed mills ranged between 6.91% and 7.31%.

“The industry needs to look to use Near-Infrared Spectroscopy (NIRS) and wet chemistry to a greater extent, by taking a more dynamic approach... allowing you to make decisions around additives and enzymes, and phytase supplements. The supplementation of feed with phytases enables broilers to use phytate phosphorus more efficiently, supporting bird performance, nutrient digestibility and bone mineralisation.

Insects as animal feed

Heidi Hall, Anpario global technical services manager, spoke about the use of insects as animal feed and highlighted how the UK was now lagging behind the

European Union which had given the green light for the authorisation of insect processed animal proteins in pig and poultry feed. While both Defra and the Food Standards Agency were undertaking ongoing research, Hall noted that there was a danger that UK expertise in this area could be lost unless authorisation was granted swiftly. In her presentation, she stressed that insects were good sources of digestible amino acid (valine) and that the nutritional components of Black Soldier Fly larvae, mealworm, housefly and crickets often compared favourably with Hipro soybean meal and fishmeal, with 70% protein.

The bigger picture: Vibrant eggs!

Vibrantly coloured eggs always do well and are an eye-catcher during the holiday season. White cage and aviary eggs on mostly used on the paint line.

The painting process is divided into 2 main techniques, using either spray paint or airbrushing for a luxury look. All colours are possible, as well as multiple combinations. Special designs can also be created by marbling or turning the freshly painted eggs over a sponge.

Painted, hard-boiled eggs are sold in Germany all year round but production is ramped up for the Dutch market around Easter. The paint line runs at full capacity from the beginning of February until Easter when 5 machines

run 24/7 turning out millions of colourful eggs.

UK: consultation on new rules for all bird keepers

Proposals have been unveiled that will force every keeper of birds in the UK to register their birds. Until now, only those who keep more than 50 birds are required to do so, but the new plans are part of the government's action to tackle avian influenza.

The new rules would require bird keepers to not only register their birds but provide updated information annually. By registering their birds with the Animal and Plant Health Agency, keepers will ensure they receive important updates such as any local avian influenza outbreaks and information on biosecurity rules.

The consultation proposals take forward the recommendation from the 2018 Dame Glenys Stacey Review and lessons identified from the 2021/2 highly pathogenic avian influenza H5N1 outbreak and previous HPAI outbreaks.

“A full picture of the number and location of birds”

In a joint statement, the chief veterinary officers from England, Scotland and Wales said: “These proposals will enable us to have a full picture of the number and location of birds kept across Great Britain and make it easier to track and



This photo was taken by Bert Jansen.



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manage the spread of avian disease. "This information will also help inform future risk assessments and maintain our commitment to continually building our extensive avian influenza research portfolio."

Richard Griffiths, British Poultry Council chief executive, welcomed the consultation as a means of ensuring the GB Poultry Register is fit to support Government and industry efforts in mitigating the ongoing impacts of avian influenza.

Monitoring and controlling the spread of disease

"Registering your poultry is an effective way of monitoring and controlling the spread of disease to protect the national flock. We, as ever, urge all poultry keepers to remain vigilant for signs of avian influenza in their birds."

Bird keepers will need to provide information including their contact details, location of where the birds are kept and details of the birds (i.e., species, number and what they're kept for).

The 12-week Great Britain-wide consultation runs until 31 May.



▲▲▲ **The new rules would require bird keepers to register their birds, their contact details, location of where the birds are kept and details of the birds. Photo: Sabrina Eickhoff**

Brazil confirms first ever avian flu cases in wild birds

Brazil, the world's top chicken exporter, has for the first time confirmed Highly

Pathogenic Avian Influenza (HPAI), the Agriculture Ministry said on Monday.

Two cases were detected in wild birds and should not trigger a ban on imports of Brazilian poultry products as per guidelines from the World Organization for Animal Health (WOAH), according to the Brazilian government.

The avian influenza virus can kill entire flocks of birds and cause losses for the farming sector. Brazil's chicken exports rose by 27% last year to \$9.76 billion as other countries reeled from a global outbreak of the virus, yet the South American country had never registered a case until now.

The Brazilian government confirmed the detection of H5N1 subtype of the influenza virus on two birds migrating off the coast of Brazil's southeastern state of Espirito Santo. Brazil's main poultry producing states are in the far south and center-west.

The agriculture ministry said that because the cases were detected in wild animals, Brazil's status "as a country free of HPAI" was not affected.

Miguel Gularte, CEO of Brazil-based BRF, the world's largest chicken exporting company, told a press conference he was not surprised by the case of highly pathogenic avian influenza, adding the company is prepared for any scenario. The executive reiterated WOAH's recommendations that no members of that organization impose import bans because of cases detected in wild animals.

BRF's Gularte also noted the company relies on Brazil's "robust" animal health services to prevent and contain any potential threats to industrial poultry farms.

Brazil's main importers of chicken products in April included China, Japan, South Africa and Saudi Arabia.

China has banned imports of poultry from nearly 40 U.S. states due to outbreaks of bird flu on commercial poultry farms.

Brazil's neighbor Argentina suspended its poultry exports in late February after recording the first case of bird flu in its poultry industry in southern Rio Negro province but resumed exports from bird flu free areas in late March.

A record number of chicken, turkeys and

other birds have died in outbreaks in the United States, Europe and Britain, and the virus is spreading in South America, Africa, and Asia. Losses of poultry flocks have contributed to record high prices for eggs and turkey meat in some places.

While humans can contract H5N1, cases remain very rare, and global health officials have said the risk of transmission between humans is low.

Chicken price up as heat takes toll on birds

Heatwave type conditions prevailing in the state have severely impacted the poultry industry in AP. High mortality rate of birds has affected the chicken price in the open market. Temperatures across the state crossed 42 degrees Celsius mark in the last seven days. Tropical cyclone Mocha has shown severe impact on the weather conditions and day temperatures in NTR, Bapatla, Palnadu, Krishna, West Godavari and Rayalaseema districts touched the 45 degrees Celsius mark.

As temperatures increase, the mortality rate of chickens also increases. Despite efforts to save the chickens, around 20 per cent of birds at poultry farms are dying due to heatstroke. Supply in retail markets is far below the demand, which resulted in sudden spike in chicken price.

Amaravati Poultry Traders' Welfare Association (APTWA) opined that the price of chicken is likely to cross 300 per kg mark within a week.

Despite high prices, poultry traders are making less profits due to the high mortality rate, APTWA said. Fishing ban imposed by the government pushed up the demand for fish cultivated in ponds, which also resulted in their price hike. "Sunday is the only day when we spend some quality time with family and enjoy a non-veg dinner. But non-veg foods have become costly and they disappeared from our menu. Chicken prices usually increase by 10 to 20 per cent during summer. But it registered an unusual hike of up to 40 per cent this year," said K Ramu, a techie from the city.



EGG

Daily and Monthly

Prices of April 2023

Name Of Zone / Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Average	
NECC SUGGESTED EGG PRICES																																
Ahmedabad	450	453	455	455	455	430	430	430	430	430	430	430	430	430	430	410	410	410	410	410	413	418	430	445	455	460	-	460	440	440	433.76	
Ajmer	410	412	412	400	385	385	385	385	386	386	389	389	389	380	360	360	360	355	345	350	360	375	401	410	410	400	400	400	400	-	385.48	
Barwala	406	406	406	406	385	385	385	375	375	375	379	382	382	382	350	355	355	355	340	345	352	368	395	407	407	407	407	407	407	407	383.10	
Bengaluru (CC)	445	445	450	450	450	440	440	410	410	410	410	410	410	410	410	410	410	400	400	400	410	420	425	450	460	465	465	475	475	455	430.67	
Brahmapur (OD)	428	432	435	435	435	420	420	412	412	400	404	404	404	404	404	384	384	365	355	355	355	385	405	435	455	458	463	463	463	463	414.57	
Chennai (CC)	465	465	465	465	465	465	465	435	435	435	435	435	435	435	435	435	435	415	415	415	415	425	445	465	490	490	490	490	490	470	450.67	
Chittoor	458	458	458	458	458	458	458	428	428	428	428	428	428	428	428	428	408	408	408	408	418	438	458	483	483	483	483	483	483	463	443.67	
Delhi (CC)	419	425	425	425	421	405	405	405	395	395	395	400	402	402	402	368	375	375	375	358	363	370	390	417	428	428	428	428	428	428	402.67	
E.Godavari	411	414	417	417	417	403	403	395	395	395	385	385	385	385	385	365	365	355	345	345	345	365	385	415	435	440	445	445	445	445	397.73	
Hospet	405	405	410	410	410	400	400	370	370	370	370	370	370	370	370	370	370	360	360	360	370	380	385	410	420	425	425	435	435	415	390.67	
Hyderabad	400	405	405	405	385	385	370	370	370	355	360	363	363	363	350	350	350	350	350	353	358	370	400	420	430	435	435	415	415	400	382.67	
Jabalpur	418	418	418	418	418	400	400	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	390	410	435	435	435	435	435	435	400.00	
Kolkata (WB)	466	476	481	481	470	470	470	455	455	445	435	435	435	435	420	420	410	400	400	400	410	440	470	510	-	530	530	530	485	458.41		
Ludhiana	408	408	408	408	408	398	390	390	380	376	376	381	381	381	381	370	355	355	355	355	347	360	374	398	407	407	407	407	407	407	386.17	
Mumbai (CC)	460	460	465	465	465	445	445	430	430	430	420	420	423	423	423	410	410	410	410	410	413	418	430	450	-	485	490	490	475	475	440.69	
Mysuru	450	450	453	453	453	445	445	415	415	410	410	410	410	410	410	410	410	405	405	408	418	428	430	455	465	470	470	475	475	457	434.00	
Namakkal	450	450	450	450	450	450	450	420	420	400	400	400	410	410	410	410	410	410	410	410	420	420	430	430	450	450	450	455	455	435	435	429.67
Pune	453	456	460	460	460	450	435	425	415	415	418	421	424	424	424	420	420	420	420	420	420	422	430	460	-	485	485	485	485	475	440.93	
Raipur	405	410	410	410	410	405	400	395	395	395	395	395	398	398	398	388	380	380	380	380	380	380	385	385	430	455	455	455	455	440	-	405.76
Surat	470	470	470	470	470	440	440	440	440	440	440	440	440	440	440	430	430	430	430	430	430	435	445	460	480	480	-	485	465	465	449.83	
Vijayawada	411	414	417	417	417	403	403	395	395	395	385	385	385	385	385	365	365	355	345	345	345	365	385	415	435	440	445	445	445	445	397.73	
Vizag	425	425	430	430	430	420	420	420	420	420	420	420	420	420	420	420	420	390	375	375	375	375	400	425	450	450	450	450	450	450	419.83	
W.Godavari	411	414	417	417	417	403	403	395	395	395	385	385	385	385	385	365	365	355	345	345	345	365	385	415	435	440	445	445	445	445	397.73	
Warangal	402	407	407	407	387	387	372	372	372	357	362	365	365	365	352	352	352	352	352	355	360	372	402	422	432	437	437	417	417	402	384.67	
Prevailing Prices																																
Allahabad (CC)	457	457	457	448	443	438	433	429	424	424	424	424	424	424	440	452	452	452	452	452	452	452	452	462	467	471	471	476	476	476	448.70	
Bhopal	425	415	415	415	415	405	405	405	395	395	375	375	375	380	380	380	380	370	370	370	370	380	370	425	435	440	430	420	415	-	397.59	
Indore (CC)	435	435	435	435	425	410	410	410	400	400	405	405	405	405	390	390	390	390	390	380	390	400	425	430	430	425	425	425	425	-	411.03	
Kanpur (CC)	452	452	452	438	438	429	429	414	414	414	414	424	424	424	438	452	452	452	452	438	438	438	448	471	471	471	471	471	471	471	444.10	
Luknow (CC)	473	473	473	473	473	467	467	457	457	450	450	450	450	450	463	480	483	483	483	483	483	483	483	483	500	500	500	500	500	500	476.23	
Muzaffurpur (CC)	472	474	474	466	460	440	440	440	440	442	442	445	445	445	435	425	425	415	415	415	415	430	445	470	475	475	475	465	465	465	447.83	
Nagpur	420	420	420	420	420	400	400	400	400	400	405	405	405	405	375	400	400	385	385	385	385	395	400	425	470	470	450	450	430	-	411.21	
Patna	472	474	474	466	460	440	440	440	440	442	442	445	445	445	435	425	425	415	415	415	415	430	445	470	475	475	475	465	465	465	447.83	
Ranchi (CC)	471	471	471	467	467	457	457	448	448	448	448	448	448	448	438	438	429	429	429	419	419	419	429	452	462	467	476	476	476	476	451.03	
Varanasi (CC)	467	467	467	457	450	440	440	440	433	437	443	447	447	440	440	452	452	452	452	429	429	450	457	467	467	467	467	483	483	483	453.50	

Editorial Calendar 2023

Publishing Month:
January
Article Deadline :
30th, Dec. 2022
Advertising Deadline :
3rd, Jan. 2023
Focus :
Winter Disease Management

Publishing Month:
February
Article Deadline :
30th, Jan. 2023
Advertising Deadline :
3rd, Feb. 2023
Focus :
Health & Nutrition Management

Publishing Month:
March
Article Deadline :
28th, Feb. 2023
Advertising Deadline :
3rd, March 2023
Focus :
Vaccination & Immunization

Publishing Month:
April
Article Deadline :
30th, March 2023
Advertising Deadline :
3rd, April 2023
Focus :
Summer Management

Publishing Month:
May
Article Deadline :
30th, April 2023
Advertising Deadline :
3rd, May 2023
Focus :
Cold Chain Management

Publishing Month:
June
Article Deadline :
30th, May 2023
Advertising Deadline :
3rd, June 2023
Focus :
Feed Production

Publishing Month:
July
Article Deadline :
30th, June 2023
Advertising Deadline :
3rd, July 2023
Focus :
Layer Farming

Publishing Month:
August
Article Deadline :
30th, July 2023
Advertising Deadline :
3rd, August 2023
Focus :
Genetics & Breeding

Publishing Month:
September
Article Deadline :
30th, August 2023
Advertising Deadline :
3rd, September 2023
Focus :
Biosecurity Practices

Publishing Month:
October
Article Deadline :
30th, September 2023
Advertising Deadline :
3rd, October 2023
Focus :
Winter Breeding Management

Publishing Month:
November
Article Deadline :
30th, October 2023
Advertising Deadline :
3rd, November 2023
Focus :
Environment Control

Publishing Month:
December
Article Deadline :
30th, November 2023
Advertising Deadline :
3rd, December 2023
Focus :
Industry Outlook

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Sinhagad Road, Pune - 411 030 (India)
Tel : +91-20-24251803
Fax : +91-20-24251060 / 24251077
www.venkys.com
e-mail : ahp@venkys.com