

Far Eastern Agriculture

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How copper fungicide doubles as bactericide in cucumber

Interview with Case IH
Brand Leader, Asia-Pacific

Importance of bone
Strength in laying hens

Fighting mastitis
In dairy cows



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Samart Intelligence System to debut at AGRITECHNICA

SAMART KASET YONT Ltd produces efficient and highly competitive SM200 & SM200 Giant sugar cane harvesters. The Samart range of product covers cane harvesters, cane grabs and soil preparation machinery providing growers with the tools that they need to be efficient. AGRITECHNICA Asia will be the introduction platform for the Samart Intelligence System (SIS) programme. This innovative programme combines several existing electronic technologies with a unique chassis concept to provide a revolutionary “in field” yield mapping and crop output measurement system. The harvested cane is weighed as it is cut then working the electronics with the vehicle management system “real time” production data is recorded and correlated by the on board computers. For fleet managers the possibility of remotely accessing data “on the move” begins to address the increasing demand from farmers and sugar producers for hard production data in “real time” and will include the possibility to report weight of crop versus both time and engine fuel usage.



Image credit: Samart Kaset

Samart covers cane harvesters, cane grabs and soil preparation machinery.

Farm mechanisation boosts productivity

KASET THAI INTERNATIONAL Sugar Corp (KTIS), a leader in sugar and derivative industries, owns one of the largest sugar processing factories in the world located in Nakhon Sawan Province, 200 km north of Bangkok. This factory as well as two others, has continually increased output to meet growing demand, expanding production capacity from 11,500 to 88,000 tonnes per day. To keep up with this almost eight-fold increase, KTIS' sugarcane farmers have replaced labour-intensive processes with mechanisation, and productivity has been boosted by one machine in particular: the Case IH Austoft A8000 sugarcane harvester. Of all the harvesters available, the Case IH Austoft 8000 Series meets the most demanding performance and productivity needs. Designed to harvest fields with single rows with 1.5 metre spacing or double rows, the Austoft 8000 Series is ideal for large-scale operations. In ideal conditions, it is capable of harvesting up to 100 tonnes per hour. Now that KTIS operates Case IH harvesters, purchased new from Case IH's regional distribution centre in Bangkok, harvesting productivity is even better. The tight deadlines imposed by the harvesting season, which lasts only about 130 days, have become easier to meet. And crop-burning during harvesting – which damages the soil's biodiversity, causes air pollution, and contributes to global warming – has already been dramatically reduced. The Austoft 8000's exceptional performance and reliability are due to a combination of factors: the powerful 353 horsepower engine; Smart Cruise technology which automatically adjusts engine RPM, placing less stress on the hydraulic system and reducing fuel consumption by up to 0.7 litres per tonne of cane billet; 45-degree crop dividers with outer spirals; an Antivortex cleaning system in the primary extractor; a high chopper speed of 205 RPM; and large dimensions for the chopper, base-cutter discs and feed rollers.

Harvesting efficiency is further enhanced by another feature of the Cruise Control, which automatically controls and memorises ground speed, and an integrated Auto Tracker which automatically controls base-cutter depth, ensuring a precise and uniform base-cut with minimum cane loss. This reduces stool root damage by an average of 27 per cent, reduces root ripping at row-ends by 28 per cent, and reduces overall cane losses by 63 per cent.



Case IH Austoft 8000 is known for exceptional performance and reliability.

Jakarta hosts Indo Livestock 2018 Expo & Forum

THE TWO-DAY Indo Livestock 2018 Expo & Forum incorporating Indo Feed, Indo Dairy and Indo Fisheries 2018 Expo & Forum, was held from 4 July at Jakarta Convention Centre (JCC), Indonesia. The biggest livestock exhibition in Indonesia was officially opened by Ir. Musdhalifah Machmud, MT, deputy minister for Food and Agriculture, Coordinating Ministry of Economic Affairs Republic of Indonesia. Drh. I Ketut Diarmita, MP, director general, Livestock and Animal Health Services, Ministry of Agriculture, Don P Utoyo, president, Federation of the Indonesian Poultry Society and Arya Seta Wiradipura, managing director, PT Napindo Media Ashatama participated in the opening ceremony. The expo was attended by more than 567 participants from 40 countries. The expo had 11 pavilions from Indonesia, America, Netherlands, Europe, Australia, England, South Korea, Taiwan, Thailand, China and Turkey.

The show had the backing of the Ministry of Agriculture, Ministry of Maritime Affairs and Fisheries and several other ministries and related associations. Animal health professionals, livestock raisers, entrepreneurs from feed management and food processing sectors, suppliers and distributors took part in the expo. The exhibition turned out to be a great opportunity to familiarise with the changing landscape of the livestock industry in the Asia Pacific region and to pick up new trends in related technology worldwide.



Indonesian President His Excellency Ir. H. Joko Widodo visited the expo.

Businesses expect Industrial IoT to boost their revenues by US\$154mn, finds Inmarsat study



Image credit: Adobe Stock

The Industrial Internet of Things is set to revolutionise how businesses function in the next few years.

THE INDUSTRIAL INTERNET of Things (IIoT) is set to make a sizeable contribution to the global economy by 2023. This is according to a new global study launched by Inmarsat, the world's leading mobile satellite communications company, which found that organisations, across the global supply chain, expect IIoT to be increasing their annual revenues by 10 per cent within five years.

The Industrial Internet of Things is set to revolutionise how businesses function in the next few years. There will be significantly increased automation and operational efficiency through the use of real time data and machine-to-machine communication right across the planet. Access to reliable and resilient connectivity, particularly in remote regions or at sea, where terrestrial networks are not available but satellite communications are available, will be essential to the success of many IIoT deployments.

These latest results have emerged from the 2018 edition of Inmarsat's research programme into IIoT trends – 'IIoT on Land and at Sea' – for which market research specialist Vanson Bourne surveyed 750 businesses with a combined turnover of US\$1.16 trillion from across the globe. Respondents were drawn from a wide range of industries, including the agriculture, energy, maritime, mining and transport sectors.

Commenting on the findings, Paul

Gudonis, President, Inmarsat Enterprise, said: "IIoT is emerging as a major force in the modern enterprise and it's clear that businesses are prioritising satellite technology to transform their operations and achieve competitive advantage. Data generated by IIoT infrastructure is expected particularly to bring greater transparency to the global supply chain, allowing businesses to automate processes, reduce operational waste and speed up rate of production, leading to higher revenues and lower costs".

"However, many businesses are struggling with security, skills and connectivity challenges in large scale IIoT deployments. More than half (56 per cent) require additional cyber-security skills and 34 per cent don't yet have access to the connectivity they need. For global businesses that require a global communications network, satellite connectivity will play a key role, guaranteeing constant secure data transmission wherever their IIoT infrastructure is located," he concluded.

Inmarsat is the leading provider of mobile satellite connectivity to IIoT deployments across the global supply chain. Our services are enabling end-to-end transparency across the production, extraction, manufacture and multi-modal transportation of goods, delivering operational efficiencies to organisations from the agriculture, energy, maritime, mining and transport sectors.

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22-24

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SEPTEMBER

17-19

VIV China

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20-22

Bangla Livestock

Dhaka, Bangladesh

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OCTOBER

17-19

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Ho Chi Minh City, Vietnam

www.vietstock.org

NOVEMBER

01-03

Agrilivestock Cambodia

Phnom Penh, Cambodia

www.agrilivestock.net

13-16

EuroTier 2018

Hannover, Germany

www.eurotier.com/en

DECEMBER

06-08

Agrilivestock Myanmar

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FOOD OUTLOOK

THE FAO FOOD Price Index (FFPI) averaged 173.7 points in June 2018, down 2.4 points (1.3 per cent) from its level in May, representing the first month-on-month decline since the beginning of this year. Most markets have generally taken on a weaker tone recently because of rising tensions in international trade relations. The FAO Cereal Price Index averaged 166.2 points in June, down 6.4 points (3.7 per cent) from May but still nearly 8 per cent higher than its level in the corresponding period last year.

International rice prices increased, as supply tightness underpinned higher quotations of Japonica and fragrant rice, outweighing declines in Indica prices. The FAO Vegetable Oil Price Index

averaged 146.1 points in June, down 4.5 points (3 per cent) from May, marking its fifth consecutive fall and 29-month low. The drop was driven by lower quotations for palm, soybean and sunflower oils. The continued slide in palm oil prices reflects lacklustre global demand as well as spill-over weakness from the soybean complex fuelled by the recent trade tensions.

The FAO Dairy Price Index averaged 213.2 points in June, down 2 points (0.9 per cent) from May but still 2 per cent higher than the corresponding month last year. The decline in June was driven by lower price quotations for cheese, more than offsetting a rise in skim milk powder prices, while those of butter and whole milk powder remained steady.

The FAO Meat Price Index averaged 169.8 points in June, up marginally (0.3 per cent) from May but still down 3.3 per cent from June 2017. The small month-on-month increase was largely driven by an upswing in ovine meat values as well as a small rise in pig meat prices, while bovine and poultry price quotations fell slightly.

The FAO Sugar Price Index averaged 177.4 points in June, up 2.1 points (1.2 per cent) from May, marking the first increase after six months of consecutive declines. The rise in international sugar prices was mostly due to worries over sugar production prospects in Brazil as dry weather conditions continued to negatively affect sugarcane yields.

Fighting mastitis in dairy cows

Due to increasing incidences of antibiotic resistance, the World Health Organisation (WHO) has emphasised the use of medicinal plants as an alternative to antibiotics, writes Dr. Amit Kumar Pandey.

MASTITIS IS THE most cost intensive production disease in dairy industry, causing a considerable financial burden. The annual economic loss in the dairy industry in India on account of udder infections has been projected to be at US\$882.521mn. Of this, US\$636.46mn was attributed to sub clinical version of udder infections. Sub clinical mastitis is 15 to 40 times more prevalent than the clinical form.

Keeping bovine mastitis in check is a challenge because of multiple etiological agents. Due to increasing incidences of antibiotic resistance, WHO has emphasised the use of medicinal plants as an alternative to antibiotics. Several herbal extracts have shown in vitro antibacterial activity against major mastitis pathogens. Mastilep spray is one such herbal solution having both antimicrobial and symptomatic relief function. We keep continuing our research studies through clinical and field experiments to ascertain the efficacy of products at different situations. In this context, I am sharing a clinical trial report in which the efficacy of the herbal spray for the treatment of mastitis was compared with another well-known herbal product in the market.

Plan of trial: The study was done on three groups with ten cows each. The first group had all healthy cows while the second and the third group contained cows with sub clinical mastitis subjected to brand A (gel) and Mastilep spray treatments respectively. The medicine was applied twice daily for five days. The therapeutic efficacy was determined on the basis of Modified California Mastitis Test (MCMT) readings and improvement in the somatic cell count.

Result: Modified California Mastitis Test (MCMT)

Group	MCMT test		
	Day 5	Day 14	Day 21
Brand A	60%	60%	60%
Mastilep Spray	60%	20%	10%

Table 1: MCMT Test.

The MCMT test showed Mastilep spray performed better by reducing the sub-clinical cases of mastitis from 60 per cent to 20 per cent and 10 per cent respectively on 14th and 21st day.

Treatment	0 Days	5th Day	14th Day	21st Day
Control Group	1.6778±0.26 288	1.4444±0.349 25	1.3222±0.279 27	1.1556±0.409 64
Brand A	6.6700±0.10 225	4.1900±0.098 26	6.4700±0.173 24	5.5400±0.077 75
Mastilep spray	4.7400±0.09 452	3.3000±0.064 98	1.5200±0.0592 5	1.0100±0.086 22

Table 2: Average somatic cell count (SCC X105).

The results showed a significant decrease in the Somatic cell count (SCC) level in the Mastilep treated group.

Conclusion: Herbal spray Mastilep has proven excellent in controlling SSC in milk and reducing the percentage of sub clinical Mastitis. Therefore application of the herbal spray Mastilep may be recommended to cure sub clinical mastitis. The article is based on the report, 'Efficacy evaluation of topical herbal spray in sub clinical mastitis in bovines'. For more details: amit.pandey@ayurved.com ■

SIMA ASEAN concludes in style

SIMA ASEAN 2018, the Southeast Asian agri-business show, concluded its fourth edition on a high note.

SIMA ASEAN THAILAND 2018 brought together agri-business players across the world, including Thai farmers, buyers, dealers, key machinery manufacturers and industry associations. The addition of the National Farmers Forum, for the first time in Thailand, strengthened and cemented SIMA ASEAN as the leading show in the region. "SIMA ASEAN has been great. We were looking to expand our business in Southeast Asia, and we've met many quality prospects in this exhibition," said Duangthathai Phongsaphan, country manager, CNH Industrial (Thailand) Limited.

National Farmers Forum, hosted by Ministry of Agriculture and Cooperatives, attracted more than 2,000 heads of cooperatives, farmers and industry professionals from Thailand."

Held at IMPACT Exhibition and Convention Centre, Bangkok, Thailand, SIMA ASEAN was attended by more than 9,000 agricultural professionals from 30 countries, as well as more than 200 exhibiting companies and brands. The event attracted 118 top buyers from all over Asia including Myanmar Paddy Producers Association, Nongkhao Agriculture Cooperative, Cambodia Business Association, Vietnam Farms and the Agricultural Enterprises Association.

"We have met potential suppliers through the business matching programme and we believe their products would add value to our company. The food processing and greenhouse showcases gave us a very good impression about the tradeshow," said an international buyer from Malaysia, Ngu Ming Ho, agro division manager, Pansar Company. AXEMA's international department manager Valerie




Visitors got to familiarise with an array of products, equipment and processes from the different departments of the Ministry of Agriculture and Cooperatives, Thailand.

Lescaut said, "ASEAN countries are important to us because there are many opportunities to develop the agricultural businesses together. AXEMA, as a French farm machinery Manufacturer Association, representing more than 230 members, identifies Thailand as the top client for our agriculture equipment in France."


First-time exhibitor, Kriengsak Asavarat, managing director, Subthawee Engineering, official dealer and distributor of YTO International (Champ), added, "We decided to participate in SIMA ASEAN at the last minute, and I'm very happy that we did. Our goals were to increase market presence and brand awareness in Southeast Asia. We've had success over these three days and we look forward to returning again in 2019."

"This edition has been very positive for MANITOU Group. Visitors have shown enthusiasm and interest towards our products. We have established many qualified leads with professionals coming from ASEAN, especially from Malaysia, Philippines and Vietnam. The National Farmers Forum held concurrently with the show enabled us to promote our brand to many local farmers", concluded returning exhibitor, Mathieu Procureur, HR and marketing projects specialist APAC, MANITOU Group.

The informative sessions covering topics, such as Thailand 4.0 for the agriculture industry and best techniques for livestock, were a huge hit among the audience. ■




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Making a case for bone strength in laying hens

The combination of high egg production and inadequate dietary supply of minerals results in weak bones as minerals, such as calcium, are instead mobilised from bones for egg shell formation.

THE DEMAND FOR poultry meat and eggs has significantly increased in the past decade, mainly because of the increasing world population and increased purchasing power and urbanisation in both developed and developing countries. To address this growing demand, poultry production has undergone a lot of intensification, which although necessary, is believed to have resulted in several welfare concerns.

One of the most important concerns is increased incidences of bone fractures and deformities in laying hens. For example, the confinement of birds in limited spaces such as the battery cage housing system limits the ability of the hens to move freely and exercise, which results in weak bones and high incidences of bone fracture under such management systems. The combination of high egg production and inadequate dietary supply of minerals results in weak bones as minerals, such as calcium, are instead mobilised from bones for egg shell formation. Addressing the problem of bone weakness and fractures in laying hens therefore requires the improvement of hen nutrition and the optimisation of housing conditions.

There is, however, another, and probably the most important, factor influencing bone strength and the incidences of fractures in laying, which is genetic predisposition. In the past, the focus of genetic selection was mainly on production traits such as egg production, while welfare traits such as the strength of bones were not considered in genetic selection decisions.

Our hypothesis is that as hens became better egg producers, they also became genetically prone to the incidences of bone fractures. In a recent study published in the American Journal of Animal science, Raymond and colleagues (Swedish University of Agricultural Sciences, Uppsala, Sweden, and Roslin Institute and Royal School of Veterinary Studies,



The confinement of birds in limited spaces such as the battery cage housing system limits the ability of the hens to move freely and exercise, which results in weak bones.

Image Credit: Adobe Stock

University of Edinburgh, Scotland, UK) showed that more than half of the observed differences in bone strength among laying hens can be explained by genetic differences among the hens. In other words, more than half of the total variation in bone strength is heritable or can be transmitted from one generation to the next. This also means that hens with certain DNA variants or variation in their genes tend to have stronger bones and less incidences of bone fractures than those with other types of DNA variants. The study also found specific positions within the chicken

genome that had very strong influence on bone strength. A further investigation of these positions showed that they carried genes that play critical roles in bone formation and physiology.

The discovery of such high proportion of heritable variation in the study has huge implications for the improvement of bone strength and ultimately hen welfare. That is because heritable variation is the driving force behind genetic improvement. If there is heritable variation for bone strength, there is a possibility to genetically improve poultry populations to reduce or possibly eradicate the problem of weak bones. Poultry breeding organisations could therefore speed up the process of eliminating bone fractures in our barns by placing a high selection pressure on bone strength in their genetic selection schemes. This not only improve hen welfare, but also improve farm profitability and affords the poultry industry a good consumer and public perception of its operations. ■

Addressing the problem of bone weakness and fractures in laying hens therefore requires the improvement of hen nutrition and the optimisation of housing conditions.”

*Biaty Raymond,
PhD Researcher, Animal Breeding and Genomics group, Wageningen University and Research, the Netherlands.*

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A case study on cucumber: Copper fungicide-turned-bactericide



Image credit: Terry Mabbett

There is absolutely no need to use antibiotics to control bacterial diseases of crop plants, reports Dr Terry Mabbett.

THE DIVALENT COPPER ion (Cu^{2+}) is the active principle of all copper-containing fungicides used throughout the world to control the widest range of fungal plant pathogens, but less well known is the activity of Cu^{2+} as a highly efficacious bactericide. Bactericidal activity shown by the divalent copper cation is a crucially important bonus for agriculture and horticulture because bacteria are one among the most devastating plant pathogens and are very difficult to control.

Apart from copper-containing compounds, there are no other chemicals except antibiotics possessing the capability and capacity to control bacterial diseases of crop plants. Antibiotics have been used to control bacterial diseases on rice and the practice still continues.

The use of antibiotics on crops destined for human or livestock consumption carries huge long-term risks for public health by

increasing the development and proliferation of antibiotic-resistant populations of bacterial pathogens that cause diseases in humans and animals. Indeed, the antibiotics used to control bacterial plant pathogens in rice are chemically related to the antibiotics routinely used in humans and livestock.

Antibiotics have been used to control bacterial diseases on rice, and the practice still continues.”

There is absolutely no need to use antibiotics to control bacterial diseases of crop plants. Proprietary copper fungicides can be routinely applied as foliar sprays to

control many bacterial diseases in the same way copper fungicides have been used to control fungal diseases for more than 100 years.

Case study on cucumber

The following is a case study conducted on cucumber which suffers from a number of fungal diseases and a potentially devastating bacterial disease called angular spot caused by the bacterium *Pseudomonas syringae* p.v. lachrymans which can be controlled by using proprietary copper fungicides such as cuprous oxide.

Angular leaf spot is a foliar disease caused by *Pseudomonas syringae* pv. lachrymans, a pathovar of the rod-shaped gram negative bacterium (*Pseudomonas syringae*) and pathogenic to species within the plant family Cucurbitaceae. These include a wide range of well-known crop plants such as pumpkin, melon, Zucchini (courgette) and marrow although, on balance, cucumber is the crop most heavily affected by angular leaf spot disease.

Symptoms can be summarised as follows:

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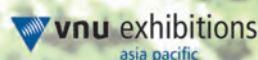


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- Leaves develop small, angular, brown or straw-coloured spots with a yellow halo
- Leaf spots dry and drop out, leaving irregularly shaped holes in the leaves
- Sticky drops of whitish liquid form on the underside of the leaf when wet, dry to a crust when dry

This seed-borne disease infects the leaves and spreads most rapidly in warm, wet conditions that feature high temperatures, heavy rainfall and high and prolonged humidity with free-water across the leaf surface. The disease spreads when bacteria are splashed between plants by rain and wind. The disease is frequent and widespread during the summer season in temperate regions including Japan and places with irrigated growing conditions. However, it is clearly most serious in tropical and sub-tropical areas of the world, which experience a distinct and severe wet season. As such, the following assessment of copper fungicide sprays as a practical control measure for angular leaf spot disease was conducted on the Caribbean island of Trinidad which is well-positioned within the tropics and has a classical hot, wet and humid climate.

The assessment was conducted against a general background of reduced fungicide usage on salad crop vegetables including tomato and sweet capsicum pepper by using low volume and ultra-low volume spray applications, with corresponding reductions in chemical dosage, instead of the high volume spraying techniques traditionally

Spread and development of angular leaf spot is accompanied by a dynamic growth rate in cucumber.”

used. Low volume, shoulder-mounted mistblowers were used to deliver 1.0 – 2.0 kg Cu²⁺ in 175 litre (l)/ha to 375 l/ha while hand-held ULV (ultra-low volume) atomisers were employed to apply 0.16 – 0.32 kg Cu²⁺ in 12.5 to 25.0 l/ha. These dosages represent significant reductions from the 5 kg Cu²⁺/ha traditionally applied to cucumber crops using lever-operated, knapsack sprayers.

However, the phenomenally rapid growth rate shown by cucumber foliage and leaves would almost certainly preclude the use of very low dosage rates and the traditional 10-day spray intervals if bactericidal deposits of Cu²⁺ were to be maintained on the cucumber crop surface.

The findings

Spread and development of angular leaf spot is accompanied by an equally dynamic growth rate in cucumber, with new leaves produced at 1 leaf/vine/day and newly unfurled leaves expanding by a factor of 30 within just ten days. The most rapid period of leaf expansion (which is virtually linear) occurs between day four and day six (after

leaf emergence) and the same period when bacteria infect the leaves and classic symptoms of angular leaf spot begin to appear. Effective protection against such a fast moving pathogen, on rapidly expanding leaves and during intense rainfall, is therefore difficult to maintain.

Symptoms of disease begin to appear on the fifth day after leaf unfurling. During wet weather, more than 80 per cent of the leaves will have become infected by the tenth day after unfurling. A 10-day spray interval is traditional for cucumber. Of the ten leaves formed on each vine during this ten day interval only those receiving spray at four-to-six days after unfurling (which is before the disease develops but after most leaf expansion has occurred) are adequately protected.

Increasing the dosage of Cu²⁺ may help to buffer the effect of deposit dilution. However, the most attractive option is to reduce the spray interval so that all leaves receive spray during the four-to-six day period after unfurling or as close to this stage as possible. Five-day spray intervals (includes both spray days) will accommodate all leaves except those sprayed on the third day after unfurling which will not receive spray again until the seventh day. However, with four-day spray intervals, all leaves will receive spray during the four-to-six day period after unfurling which is when they are most vulnerable to infection and disease development.

Ultra-low-volume sprays using ultra-low-dosages of copper are inappropriate for this specific crop/disease situation, even when shortened spray intervals are used, as the very small initial deposits of copper are diluted ‘out of existence’ by rapid leaf expansion. Adequate disease control requires deposits of between 1.0 ug and 2.0 ug Cu²⁺ per cm² of leaf surface to be maintained on the leaf surface. This can be achieved and provided for by low volume spraying of fixed copper compounds such as cuprous oxide.

The rapid increase in crop surface area from the onset of plant vining to maturity when the foliage of adjacent plants meets and overlaps means ‘leaf area index’ will rise rapidly from well below 1.0 and up to 2.0 or even higher, and this makes it difficult to recommend and deliver dosage on a per hectare basis. Thus spray concentration should be kept at 1.0 per cent Cu²⁺ (weight/volume) and spray volume allowed to rise with an increase in leaf area as the cucumber crop grows and develops. ■

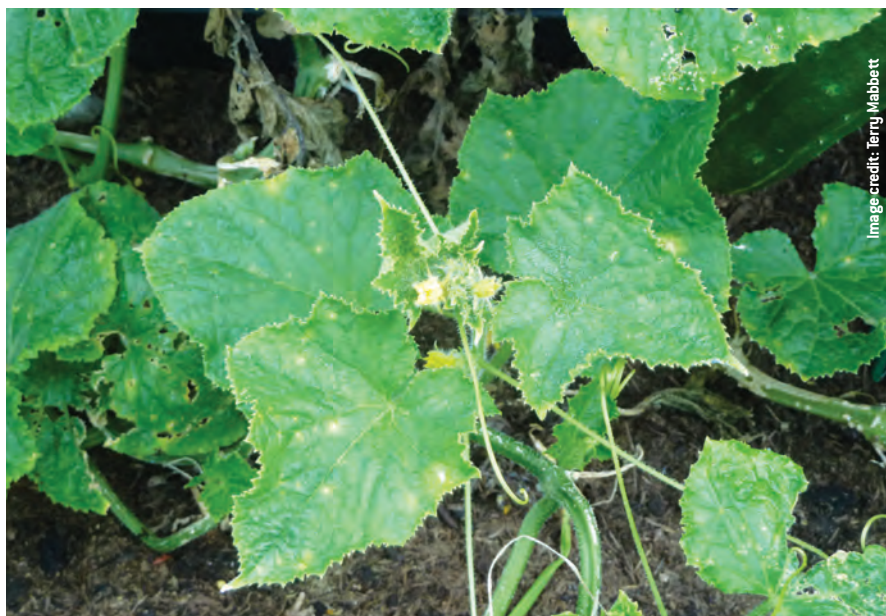


Image credit: Terry Mabbett

Infection first occurs when leaves are four-to-six days old.



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AGRITECHNICA ASIA 2018 to focus on mechanised farming practices

Thailand is an important producer and exporter of agricultural products and food in the Southeast-Asian region.

DLG INTERNATIONAL GMBH is collaborating with VNU Exhibitions Asia Pacific to hold the second edition of AGRITECHNICA ASIA from 22 to 24 August this year at BITEC, Bangkok. The exhibition supports the policies implemented by Thailand's public sector to help the country's farmers transition to a new era of farm mechanisation.

Dr. Dares Kittiyopas, the deputy director-general of the Department of Agricultural Extension, said her department is committed to enhancing and developing farmers' production capacity. "They will be able to rely on themselves in a sustainable way, have a good quality of life, use technology and innovation and have a stable income. AGRITECHNICA ASIA is very beneficial to the farmers because they can learn about the latest innovation and new agricultural machinery at the expo and be ready to step into the new era of agriculture. In future, people will use the machines as the main tool, instead of labour, as it is very precise, convenient and helps to reduce budget costs and loss of productivity," she said.

As the co-host of AGRITECHNICA ASIA 2018, the Department of Agricultural Extension will organise guided tours through the trade fair to present farming machine innovation to the visitors. More than 1,000 Thai smart farmers and provincial officers will be invited.

Many agricultural workers have left the sector completely to secure more stable incomes in Thailand."

Dr. Pisut Paiboonrath, and expert in smart farming from Thailand's National Electronics and Computer Technology Center (NECTEC), which is part of the country's National Science and Technology Development Agency (NSTDA), said the concept of smart farming was a topic that interested the public because it represented

the shift from the old-fashioned way of farming into modern agriculture using technology and information and communications technology for production and marketing.

Mr. Peter Grothues, chairman of the Advisory Board of DLG International GmbH, said "AGRITECHNICA ASIA is a forum to gather technologies and innovation on farming machines from across the world, exchange knowledge from international experts in agricultural technologies and share information through seminars and research work."

"Interesting topics have been selected specially for the Asian region," he added. "Improving efficiency in crop production is an especially important topic in Southeast Asia, where the demand for agricultural products is rising steadily. The event's main purpose is to share the knowledge on how smart farming technology can support the farmers in Southeast Asia, especially in Thailand. At AGRITECHNICA ASIA and the co-located trade fair Horti ASIA, visitors will see technology from about 300 international companies. In panel discussions, seminars and workshops, farmers will get to learn more about several areas such as precision farming in rice cropping or the implementation of machinery rings."

The official partners of the expo are: AGCO Holding (Singapore) Pte. Limited; Röhren- und Pumpenwerk Bauer GmbH (Austria); Celikel Tarım Makineleri San. Ve Tic. Ltd. Sti. (Turkey); FLIEGL Agrartechnik GmbH (Germany); Maschio Gaspardo S.p.A. (Italy); Minos Agricultural Machinery (Turkey); PÖTTINGER Landtechnik GmbH (Austria); and Jiangsu World Agricultural Machinery (China). The trade fair will be accompanied by a comprehensive conference programme, including panel discussions and seminars by experts from organisations such as the International Rice Research Institute (IRRI) and the Regional Council of Agricultural Machinery Associations in Asia and the Pacific (ReCAMA). ■



Image credit: AGRITECHNICA

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VIV China 2018 moves to Nanjing to boost international access

VIV China 2018 expects to welcome 20,000 visitors from nearly 90 countries. The expo ground is spread over an area of 40,000sq m.

THE OFFICIAL OPENING of VIV China 2018, the international trade fair covering the complete gamut of supply chain from feed to food for forward-thinking businesses located in the People Republic of China, is just a month away.

VIV China 2018, scheduled to be held from 17- 19 September, will wear a fresh look. The three day expo is now moving to a new location- Nanjing.

Part of Jiangsu Province and located along the Yangtze River Valley, Nanjing was the Southern capital of China in ancient times. Today it stands at the heart of a provincial animal production industry valued at almost US\$799bn per year. Jiangsu Province is an important base for many international companies serving the Chinese market.

The modern facilities of the International Expo Centre in Nanjing and the city's international and national transport links make this a great location in terms of access and amenities. VIV China's organisers have extended the expo's pan-China reach by strengthening ties with major agricultural and animal husbandry agencies in the key regions of the country such as Anhui, Henan, Hebei, Hunan, Hubei, Jiangxi and Guangdong.

Exhibitors cover the entire supply chain

The expo ground is spread over an area of 40,000sq m and will have more than 600 Chinese and international exhibitors.

The exhibitors include specialists in complete feeds, ingredients and feed additives, feed milling equipment and animal health, global and local leaders in systems for breeding, hatching and farm production, innovators in IT and automation and recognised brands in processing and handling. The companies



Decision makers and management level professionals will account for 35 per cent of the visitors.

specialising in laboratory equipment and services, logistics, refrigeration, packaging, consultancy, waste treatment, bioenergy technology, aquaculture systems would also put up booths.

Located along the Yangtze River Valley, Nanjing was the Southern capital of China in ancient times."

VIV China 2018 expects to welcome 20,000 visitors from nearly 90 countries. Decision makers and management level professionals will account for 35 per cent of the visitors, reflecting the improved overall audience quality delivered by means of strategic industry co-operation, enhanced marketing campaigns and high-quality conference contents.

The international visitor campaigns for VIV China 2018 is focusing on a number of key countries such as Thailand, Vietnam, Korea, India, Pakistan, Iran, Egypt and Russia. Domestic campaigns have also been strong this year. What's more, VIV China will invite 100 global

industry leaders through a "VIV Industry Leaders Programme".

Conference themes

During the show days, VIV China will hold more than 10 international professional forums in cooperation with key media and industry partners.

The International Pig Forum China 2018 will delve into the opportunities for the development of China's live pig industry. The conference highlights include the Sino-Dutch Pig Industry Seminar.

For the poultry sector, the IPC2018 annual meeting and the third China Egg Products Circulation Conference will be held during VIV China 2018. China Egg Processing Association will organise the latter. The aquaculture programme is another expanded feature, with its main session being the 2018 China Aquaculture Summit.

National macro policies and the industrial development trends in China will be discussed in a series of professional forums at VIV China 2018, starting with the Belt and Road International Animal Husbandry Forum. China Animal Waste Treatment Union Forum, the Farm and Food Integration Seminar and the Feed Technology International Forum will be held. ■

Image credit: VIV China

Agri Malaysia expects rise in footfall

International participants from countries such as USA, Australia, Italy, Korea, China, Taiwan, Singapore, Thailand and Vietnam will grace the expo.

THE THIRD EDITION of Agri Malaysia is scheduled to be held on 27-29 September 2018 at Setia City Convention Centre 2 (SCCC) Shah Alam, Selangor, Malaysia. Agri Malaysia 2018 has doubled up the booth numbers to 300 units from the last edition. More than 100 industry players will participate in Malaysia's largest agricultural trade exhibition. The expo is expected to attract more than 8,000 visitors this year.

Agri Malaysia will showcase over 100 local and international exhibitors dealing in modern farming tools and equipment, seeds, fertilisers and smart farming technologies. The exhibition will also present agricultural

related services including information consultation, human resource management as well as safety and health issues.

International participants from countries such as USA, Australia, Italy, Korea, China, Taiwan, Singapore, Thailand and Vietnam will grace the expo. This year, Agri Malaysia will offer seminars and information-sharing sessions throughout the three-day exhibition. The industry experts will share their valuable experiences and information in a bid to drive growth in Malaysia's agrisector. The seminars will revolve around technology sharing, management and agriculture produce processing. The programme schedules is



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Agri Malaysia will showcase over 100 local and international exhibitors.

available on Agri Malaysia's official website and Facebook page. Agri Malaysia continues to provide a professional platform for products and technology interaction for agriculture industry. ■

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Case IH: Helping sugarcane farmers harvest success in Asia-Pacific

Case IH brand leader for APAC, Matthieu Sejourne talks about sugarcane harvesters and the brand's plans in the Asia-Pacific.

How do Case IH sugarcane harvesters help increase output?

Austoft sugarcane harvesters cut with precision and speed so harvesting is accomplished faster and with less trash, while its exclusive anti-vortex cleaning system, which is designed and developed by Case IH, dramatically improves the load density for transport, thus achieving lower operating costs. This means more profit to the farmers and increased output for sugar mills, because the sooner and cleaner the cane is delivered to the mills, the productivity obtained is higher and the quality of the sugar is better.

What features make Case IH's sugarcane harvesters stand out?

The Case IH Austoft 8000 sugarcane harvester is suited for the most demanding productivity and performance needs, and it is capable of harvesting up to 100 tonnes per hour. Its output and the cleanliness of the sugarcane billets delivered to the mill, enable the exceptionally efficient production of high quality sugar. The high performance and reduced cane loss are due to a combination of factors: a powerful yet efficient engine, industry-leading cutter, chopper and extractor design, and operator-friendly features that make driving easier and more precise.

Tell us about your major clients and the role such partnerships play in shaping the sugarcane industries in Asia

We know that sugarcane growers face some of the most difficult challenges in nurturing crops. Not to mention the constant pressure to keep the sugar mills supplied with the quality and the quantity of crops they expect. Therefore, our commitment is not limited to having the most advanced technology in our products; from China,



Image credit: Case IH

Since the 19th century Case IH has pioneered agricultural equipment and innovations that have profoundly influenced agricultural business, says Matthieu Sejourne..

where we established a farm model providing with a whole scale mechanisation support, to Thailand, where we deliver high-level operator training on real machines and on a harvester simulator. We continuously assist our customers, positioning ourselves as a partner rather than a mere supplier. This is complemented by round-the-clock service to guarantee first-class support during the sugarcane season. Ultimately, this means both the growers and sugar mills reach their production objectives and increase profits.

The Asia-Pacific market accounts for almost one third of global demand for agricultural machinery."

Do you have any interesting products coming up for the Asian market?

We entered the Asian market with our Austoft 6000 Series in the late 1970s, moving to the 7000 Series in the early 1980s, especially in South East Asia where demand for mechanisation has been always high.

Then, we expanded our product offerings with the Austoft 8000 and 8800 Series, which have been upgraded with new models: the Austoft 8010 and 8810 single row Series, and from this year with Austoft 8810 multi row model. We are also considering ourselves as a full liner with our Austoft 4000 Series. This machine helps boost productivity of those growers and contractors who want to enter mechanisation with a lower investment but good productivity, thereby maximising their return on investment.

How does Case IH manage to stay at the forefront of innovations?

From the first self-propelled traction steam engine in 1876 we walked a long path with a common approach: providing customers with ever-improving technologies to farm more efficiently and profitably. Since we revealed the autonomous tractor concept vehicle in 2016, Case IH has been evolving the technology and further defining automation and autonomy for the agriculture industry. This year we are collaborating with a major US producer on an autonomous tractor pilot programme. The goal is to understand how new autonomous technology can be used and how it meets real-world, on-farm requirements.

How do you account for your increasing presence in the Asia Pacific region?

The Asia Pacific region is highly diverse. From Australia and New Zealand, which are mature markets where agricultural equipment demand is driven by the need to maximise productivity as well as the scarcity of labour resources, to emerging markets like India and South East Asia, where agriculture contributes considerably to the country's economy, and is the primary source of livelihood. In developing markets, urbanisation is pushing mechanisation. Case IH offers solutions for every customer in a sustainable way. Our distribution network ensures they receive the purchasing advice, products and services they need to guarantee the success of their farming business. For us to increase our presence in the region, we must deliver customer satisfaction. Customers judge us on our performance and if we want those customers to be long-term business partners, then our performance must always be exceptional.

What are the specific challenges faced by Case IH in the APAC market?

The Asia-Pacific market accounts for almost one third of global demand for agricultural machinery — and it's growing fast. Last few years we have experienced a rapid change in this demand due to both macroeconomics and exogenous factors such as the sectorial dynamic, commodity prices, country economics and political situations, and even the climate. As a manufacturer, we have to adapt to this cycle and act quickly in order to meet the increasing desire for new products and technologies.

Why did Case IH choose Thailand as its Southeast Asian hub?

Sugarcane production in South East Asia has risen steadily, with more than half of

this growth coming from the region's single biggest producer, Thailand. Case IH looks at this country as our regional Centre of Excellence for sugarcane harvesting machinery. In addition to our headquarters in South East Asia, Pakistan and Japan, last year we opened a new facility in Bangkok, which recognises the importance of the Thai domestic market and the brand's efforts to significantly increase our support for Thailand's sugarcane farmers. This ensures a direct access to spare parts distribution, training, after-sales services and expert technical advice.

Tell us about the Austoft 4000 Series and why is it a suitable fit for small to medium sized landholdings

The Austoft 4000 Series is specifically designed for small to medium landholdings or big plantations with reduced row spacing, which are quite common in Asia. This harvester is a superb option for sugarcane fields with reduced spacings of 1.0 and 1.1 metres, and for those cane

growers who need or wish to start harvesting mechanically, or for big plantation areas where the Austoft 4000 can harvest short rows or low productivity soils.

Could you cite a few case studies where the Case IH machinery has made a difference in terms of productivity?

Case IH is winning industrial awards and customers' accolades worldwide. One of our recent success stories is related to the impressive growth of Thailand's KTIS Group, which has expanded eight-fold its production capacity in the last few years by replacing labour-intensive processes with mechanisation. Thanks to our machines, especially the Case IH Austoft 8000 Series sugarcane harvester, the tight deadlines imposed by the harvesting season have become easier to meet for this customer. And crop-burning during harvesting has been dramatically reduced. Today, KTIS Group operates 120 sugarcane harvesters and the majority of those are from Case IH.

What are the major growth drivers that propelled the Case IH brand to the top?

Case IH customers around the world can benefit from more than 175 years of know-how, dedicated to the service of modern agriculture. Case IH has more than 50 years of expertise in the field of mechanised sugarcane harvesting and an enviable reputation for bringing success to sugarcane farmers worldwide. Great innovations have been abundant throughout our brand's history — and today we are leading the way with our agronomic design, Advanced Farming Systems, and our pioneering in the field of autonomy. ■



Case IH Austoft 8800 sugarcane harvester.

Image credit: Case IH



Case IH A8010 sugarcane harvester.

Image credit: Case IH

ANNUAL AGRICULTURAL BUYERS' GUIDE

2018

Section One - Supplier listings by categories

Section Two - List of suppliers

Section Three - Contact details of agents in Asia

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Dairy Processing

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Exports

Eurofeed Technologies S.p.A.
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Feed

Eurofeed Technologies S.p.A.
Leiber GmbH
Unipoint AG

Health Products

Ayurvet Ltd.
Eurofeed Technologies S.p.A.
Evans Vanodine International PLC
Henke-Sass, Wolf GmbH
Unipoint AG

Milking Equipment

MIK INTERNATIONAL

Veterinary Equipment

Henke-Sass, Wolf GmbH

Ventilation & Control Equipment

Termotecnica Pericoli S.r.l.

Watering Equipment

Impex Barneveld b.v

Chemicals

Bio-Pesticides

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Disinfectants

Eurofeed Technologies S.p.A.
Evans Vanodine International PLC
Intraco Ltd. n.v

Fertilizers

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Omex Agrifluids Ltd.
Reed Exhibitions Japan Ltd.

Formulation Agents

Omex Agrifluids Ltd.

Fumigation

Eurofeed Technologies S.p.A.
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Fungicides

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Herbicides

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Insecticides

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Minerals

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Plant Growth Regulators

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Crops

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Grain Drying

Awila Anlagenbau GmbH

Grain Handling

Awila Anlagenbau GmbH

Grain Storage

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Greenhouses

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Harvesters

CNH Industrial Services (Thailand) Ltd

Horticultural Equipment

Reed Exhibitions Japan Ltd.
Swingtec GmbH
VST TILLERS AND TRACTORS LIMITED

Integrated Pest Management

Swingtec GmbH

Irrigation, Consultancy

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Irrigation Equipment

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Irrigation, Hose

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Irrigation, Sprinklers

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Processing, Cassava

CNH Industrial Services (Thailand) Ltd

Processing, Rice

CNH Industrial Services (Thailand) Ltd

Seeds, Fruit

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Seeds, Vegetable

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Sprayers, Hand

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Sprayers, Knapsack

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Sprayers, Rotary Atomizer

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Sprayers, Tractor-Mounted

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Sprayers, ULV

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Swingtec GmbH

Spraying Accessories

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Sugar Processing

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VST TILLERS AND TRACTORS LIMITED

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Feed

Additives

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Leiber GmbH

Concentrates

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Conditioning

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Feed mills

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Soya Protein

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HAMLET PROTEIN AS

Supplements

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Unipoint AG

Vitamins

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Other

Analytical Services

Omex Agrifluids Ltd.

Animal Health

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Unipoint AG

Biotechnology

Omex Agrifluids Ltd.

Biological Crop Protection

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Computerization

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Exhibitions

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Evaporative Cooling

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Pest Control

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Production Control

DSL Systems Ltd.

Seaweed Extract

Omex Agrifluids Ltd.

Sheep Farming

MIK INTERNATIONAL

Silos

Awila Anlagenbau GmbH

Sorting Equipment

Marel Poultry

Turnkey Operations

Awila Anlagenbau GmbH

Ventilation

Termotecnica Pericoli S

Veterinary Instruments

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Schauer Agrotech GmbH

Flooring

MIK INTERNATIONAL

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Eurofeed Technologies S.p.A.
Evans Vanodine International PLC
Henke-Sass, Wolf GmbH
Unipoint AG

Pest Control

Swingtec GmbH

Veterinary Equipment

Henke-Sass, Wolf GmbH

Ventilation & Control Equipment

Termotecnica Pericoli S.r.l.

Watering Equipment

Impex Barneveld b.v

Poultry

Meyn Food Processing
Technology

Drinking Equipment

Impex Barneveld b.v

Evisceration, Portioning

Marel Poultry
Meyn Food Processing
Technology

Feed

Leiber GmbH
Unipoint AG

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Meyn Food Processing
Technology

Slaughtering Equipment

Marel Poultry
Meyn Food Processing
Technology

Veterinary Equipment

Henke-Sass, Wolf GmbH

Ventilation & Control Equipment

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Section 02



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- ☐ 14 Cassava
- ☐ 15 Dairy Cattle
- ☐ 16 Beef Cattle
- ☐ 17 Sheep/Goats
- ☐ 18 Pigs
- ☐ 19 Poultry
- ☐ 20 Fisheries



COULD IT GET ANY SWEETER?

Yes it can. The new Case IH Austoft® Sugar Cane Harvester is the result of extensive consultation and over 18,000 hours of relentless field testing. With over 28 new features, it offers a whole new level of productivity and performance. A larger tank, a lighter machine and a cleaner cane sample; this new harvester will be your next crush.

✓ EASIER OPERATION ✓ IMPROVED HARVEST QUALITY ✓ INCREASED PRODUCTIVITY

Contact your local Case IH dealer today to discover the new Austoft 8010 or 8810.

If you ask yourself how to improve live bird handling for optimum animal welfare?



Meyn has the most versatile live bird handling portfolio, including state-of-the-art automatic trailer (un)loading and other unique solutions. The new Meyn Grande drawer system is now the best-in-class with the highest return on investment for poultry processors all over the world. For more information go to www.meyn.com



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