

ACI Animal Health brings Egg Incubator to save rare species Crocodile of Khan Jahan Ali Dighi

Sweet Water Crocodile is a near to extinct animal in Bangladesh. Like every other animal, crocodiles play a very important role in the ecosystem. Crocodilians are the world's largest and perhaps most exciting reptiles. Besides, they are also great survivors and their prehistoric ancestors, the Archosaurs, date back over 240 million years to the Triassic period. Since man colonized the world, no species of crocodile has become extinct. However, 17 out of the 23 species of crocodilians around the world are endangered.

Two weeks earlier, a sweet water crocodile of historical Khan Jahan Ali's pond at Bagerhat laid 50 eggs, which is now being directly supervised by Mr. Jahangir Alam, the District Administrator of Bagerhat. Under his supervision, Dr. Mohammad Nurul Amin, sub-director of Government's Department of Livestock contacted with ACI Animal Health for co-operation. In response, ACI Animal Health provided the "Reptiles incubator machine" to facilitate the birth of the crocodile hatchlings.

ACI Ltd is a certified (ISO 14001-Environmental Management Certification) organization which is committed to maintaining the environmental equilib-

rium. As a part of this commitment, ACI Animal Health has taken some steps in saving the lives of the near to extinct animals of Bangladesh. It has imported the 'Reptiles Incubator Machine' from South Korea. Only ACI Animal Health has such incubation technology in Bangladesh now. This incubator plays a vital role in the multiplication of sweet water crocodile which tops the list of near to extinct animals in Bangladesh.

After collecting the eggs and washing them in a scientific method the eggs are kept in the incubator at a certain temperature. Around 80-85 days later, those eggs are hatched and the newborn crocodile hatchlings are usually 10-11 inches long. The most interesting part of the whole procedure is that the temperature inside the incubator determines whether the egg will hatch a male or a female crocodile. If the temperature in the incubator is 32 degree Celsius, most of the hatchlings will be male. A temperature below 32 degree Celsius will give more female hatchlings.

Dr. F H Ansarey
Executive Director
ACI Agribusiness



Biotech Corner

Double Haploid (DH) Technique in Plant Breeding should be Adopted more Aidely

Haploids are plants that contain a gametic chromosome number (n). They can originate spontaneously in nature or as a result of various induction techniques. Doubled haploidy is a fundamental tool in plant breeding as it provides the fastest way to generate populations of meiotic recombinants in a genetically fixed state. A wide range of methods has been developed to produce doubled haploid (DH) plants and recent advances promise efficient DH production in otherwise recalcitrant species. Since the cellular origin of the plants produced is not always certain, rapid screening techniques are needed to validate that the produced individuals are indeed homozygous and genetically distinct from each other. Ideal methods are easily implemented across species and in crops where whole genome sequence and marker resources are limited.

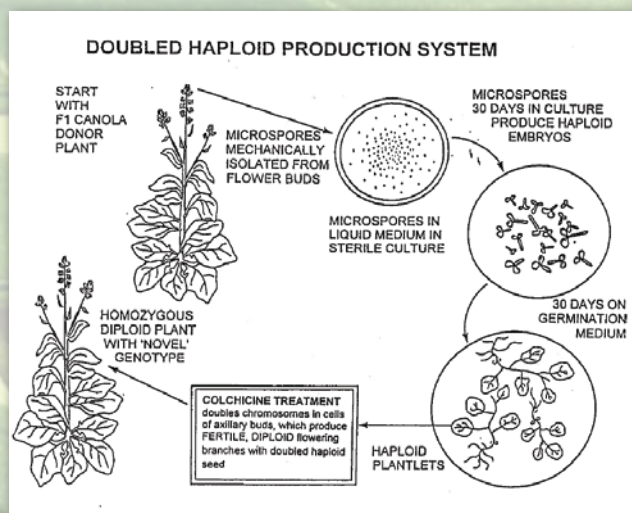
The approach is especially powerful in crop breeding because haploid plants are in many cases easily made diploid either spontaneously or via treatment with chemicals such as colchicine. This allows the generation and rapid fixation of genetic variants in a homozygous state. The result is a true breeding material with fixed traits that can be used for a variety of approaches to research and crop improvement. The broad utility of this approach is highlighted by the development of DH methods about 290 species including Brassica juncea, eggplant, melon, pepper, rapeseed, rice, tobacco, triticale, wheat and more. A wide range of techniques have been described for DH production including pollen embryogenesis, gynogenesis and uniparental genome elimination

upon interspecific crosses or pollination by inducer lines. The diagram below shows the process of double haploidy in a simplified way.

Using DH technology, completely homozygous plants can be established in one generation thus saving several generations of selfing comparing to conventional methods, by which also only partial homozygosity is obtained. Another feature that should be considered is the breeding strategy. Within the breeding process, DH lines can be induced as soon as from F1 generation forming the F2 generation, although some breeders prefer to induce DH lines from later generations.

Method has already been used in breeding programs for several decades and is currently the method of choice in all species for which the technique is sufficiently elaborated. Species for which well-established protocols exist predominantly belong to field crops or vegetables, but the technique is gradually also being developed for other plant species, including fruit and ornamental plants and other perennials. Furthermore, the haploid induction technique can nowadays be efficiently combined with several other plant biotechnological techniques, enabling several novel breeding achievements, such as improved mutation breeding, backcrossing, hybrid breeding, and genetic transformation.

Prof. Lutfur Rahman
Advisor ACI Agribusiness & Head of ASRBC



Innovations and New Products

Vita ZM – a Growth Promoter & Immune Stimulator

On 23 March 2015, ACI Animal Health launched Vita ZM, a growth promoter and immune stimulator for poultry. Its main components are Zinc 4%, Manganese 4%, total Amino acid 17.58%. Organic molecule bound Zn & Mn of Vita ZM play an important role in many enzymes as well as proper skeletal development and maintenance. One of the most important functions of Zn is related to its antioxidant role and its participation in the antioxidant defense system and prevents anti-stress in poultry. Otherwise, manganese deficiency

causes impaired growth, skeletal abnormalities, depressed reproductive function, ataxia of the newborn and faults in lipid and carbohydrate metabolism. Amino Acid used to increase the body weight as well as increase egg size and number. So Vita ZM can be used for increasing body weight, egg size & shell quality, egg production of bird. It will also improve the glossiness of feathers, leg, and the immunity of poultry. Vita ZM is manufactured by Vitafor Belgium. It is available in 500 gm & 25 kg packs.



Tea Seed Cake – a Safe Solution for Unwanted Fishes and Insects

On 20 March 2015, ACI Animal Health launched a fishery product – 'Tea Seed Cake' which can ensure a safer management in controlling unwanted fishes and insects. Tea seed cake is a residue remaining after the oil has been extracted from the seeds of certain plants in the Camellia family. It contains saponin

(a toxin reacting in the blood), suitable for many applications both in agriculture and aquaculture. Tea Seed cake is extensively used in aquaculture to eliminate unwanted fishes & harmful insects in the fish and prawn /shellfish ponds. It detoxifies quickly in water and is not injurious to cattle and people who

may use the water. Tea Seed Cake leaves no cumulative adverse residues, is readily available and economical to use. As it is non-toxic and there is no residual effect, it is safe to human and plants. Tea Seed Cake also causes no pollution to the water and the soil. It is available in 45 kg pack.



Events and Activities

Technology for Fertile Future: 6th China International Fertilizer Show

ACI Fertilizer attended the 6th China International Fertilizer show, held on 11-13 March 2015 in Shanghai New International Expo Center, China. This prestigious event was organized by CCPIT Sub-Council of Chemical Industry. Fertilizer companies from 30 different countries participated with around three thousand stalls at the exhibition. Different categories of Fertilizers, Soil Conditioner, Sea Weed Extract, Fertigation Equipments etc. were

displayed. Different fertilizers included Slow Released Fertilizer, Humic Acid & Fulvic Acid based Fertilizer, Amino Acid based Fertilizer, Microbial Fertilizer, Micro Nutrients Fertilizer, Compound Fertilizer, 100% Water Soluble Fertilizer, and Nano Fertilizer.

Business Manager and General Manager of ACI Fertilizer along with more than 1000 delegates attended the exhibition. China International Fertilizer Show (FSHOW) has

become the market indicator and a professional communication platform of fertilizer industry. The showcase also offered the opportunity to know new practices of fertilizer, source of quality manufacturer and introduced its participants to innovative products & ideas. ACI Fertilizer is proud to represent its business as well as Bangladesh in FSHOW, an international platform of such a large scale.



Farming Efficiently: 1800 Farmers Motivated in March

In order to promote sustainable farming and the spread of high-yielding crop varieties, a total of 34 field days were organized by ACI Seed in March 2015. These events focused on 16 varieties of 10 different crops. These varieties are ACI-Super and Anokhi in Tomato, Durjoy in Ridge Gourd, Sweet Heart in Pumpkin, Elin in Cucumber, Biddut and Hot Green in Chili, Profit, MS-888 and MZ-001 in Maize,

Sugar Emperor in Water Melon, Rownok and Moina in Bottle Gourd, Green Soft and Surokha in Okra, and Papiya in Bitter Gourd. These field days were held in 17 different districts. The districts are Magura, Bhola, Mymensingh, Jamalpur, Bogra, Dinajpur, Nilphamari, Pabna, Natore, Rajshahi, Khagrachori, Chittagong, Tangail, Kurigram, Chuadanga, Meherpur, and Pirojpur.

Around 2257 farmers, as well as dealers, retailers, and other stakeholders, were present in these field days. Among them, about 1821 enthusiastic farmers were highly encouraged and motivated to cultivate these varieties. These field days are playing a very effective role in the mass-promotion of these high-yield varieties.



Events and Activities

DG-DAE's Field Day Visit instilled Inspiration

In March 2015, ACI Fertilizer continued promoting Micro Nutrients & Organic Fertilizer through Department of Agriculture Extension (DAE) under the Integrated Agricultural Production Project (IAPP) Project. As a part of the promotion, DAE have conducted result demonstration in Rangpur & Barisal Area. They have conducted total 924 demonstration plots in Rangpur Zone & total 1720 demo in Barisal zone on Rice, Maize, Wheat & different kind of Pulses.

A three day long field demonstration visit program was organized by DAE. It started on 9 March 2015 at Domar & Sadar of Nilphamari, continued on 10 March at Mithapukur & Sadar of Rangpur, and ended on 11 March 2015 at Sadar of Lalmonirhat. Director General of DAE, Director-Horticulture, Project Director-Upazilla (Farmers Training

Project-2nd Phase), Project Coordinator-IAPP, 4 Deputy Directors (Rangpur, Nilphamari, Kurigram, Lalmonirhat), 4 district Coordinators (Rangpur, Nilphamari, Kurigram, Lalmonirhat), Business Manager, General Manager, Zonal Manager & Asst. Manager, Institutional Sales of ACI Fertilizer were present in the program. This program was sponsored by ACI Fertilizer. The objective of the program was to see the proper implementation of the demonstration plots where ACI Fertilizer products are used.

From the demonstrations and few farmers' meetings, Director General-DAE praised ACI Fertilizer Products, especially ACI organic fertilizer for its increased water holding capacity of soil & boosting the productivity of chemical fertilizers.



Joining Hands: Successful ACI Fertilizer-iDE Collaboration for Inclusive Business

ACI Fertilizer and iDE agreed to collaborate regarding inclusive business opportunities related to bottom of the pyramid (BOP) market segments under PROSHAR project. The joint work with iDE started from October 2014 for implementation of Firm to Farm approach by forming new 9 Farm Business Group led by 9 FBA (Farm Business Advisor Selection) and establishing functional linkage with existing 75 FBG (Farm Business Groups Formation) and 75 FBA (Farm Business Advisor Selection) at Lohagora, Batiaghata and Sarankhola Upazilla in Khulna region. Under the collaboration, a launching workshop of FBA Network, meetings fostering private sector engagement, several demonstrations and training on transferring technology were held. This collaboration has helped ACI Fertilizer to better serve the farmers' community, making it a household name.

Events and Activities

Training: "Balanced Nutrition for Tea Cultivation"

A day long training on "Balanced Nutrition for Tea Cultivation" was held on 23 March 2015 at the picturesque Halda Valley Tea Garden, Chittagong. This training was arranged by ACI Fertilizer for the tea garden managers of Pedrollo Group. Total 20 managers & supervisors from two gardens named Halda Valley and Ramgorh Tea Estate attended the training session. Mr. Sardar Ali Mortuza, General Manager, Sales & Zonal Sales Manager, Comilla of ACI Fertilizer were present in the

program. The discussion focused on the importance as well as the application method of balanced fertilization in a tea garden. Experts explained the ways and means of quality improvement as well as highest production procedure in producing organic tea, i.e., tea produced without using any chemicals.

Pedrollo Group will be using ACI Fertilizer products to expand their tea cultivation area with five lac new plantations. They also have planned to produce organic tea in near future.



Tractor Exhibition and Customer Engagement at Chapai Nawabganj

On 6 March 2015, ACI Motors arranged a Tractor exhibition at Chapai Nawabganj to give local customers a firsthand experience and demonstration of SONALIKA tractors. More than 150 people visited the exhibition while several spot orders and deliveries took place during the event. On the same day, a discussion session was arranged at Chapai Nawabganj where prospective customers could know about the advanced features and find the comparative advantages of SONALIKA Tractors.



A Battle of Honor: ICC WC 2015 Ban vs Ind Quarterfinal

On 19 March 2015, when Bangladesh was playing against India in the quarterfinal match of ICC World Cup 2015, ACI Motors joined the community cricket fans by arranging live showcase of the match with big screen in 6 different locations. More than 4000 audience enjoyed the excitement of the match in Thakurgaon, Rangpur, Bogra, Jessore, Barisal, and Gazipur. "We all are enjoying the match together, thanks to ACI Motors for such an arrangement!" said an enthusiastic Md. Abdul Matin, a tractor driver in Rangpur, during the match.



Events and Activities

Promo Offer for Diesel Engines Ended

As a part of a promotional offer, customers could get a nice towel free with every purchase of 4 to 8.5 HP ACI Motors Diesel Engine. The promo by ACI Motors started from 1 February 2015 and ended on 31 March 2015. Through out the promo duration, customer response was excellent which made it a successful one!



Massive Lal Pakri 1 Demo: The Next Agri Revolution in Potatoes?

ACI in collaboration with the Innovation Against Poverty (IAP) Program of the Swedish International Development Cooperation Agency (SIDA) has been funding a project to promote climate smart sustainable agriculture in Barisal, Borguna, Patukhali districts of Bangladesh. One of the biggest successes of this

project is the introduction of an indigenous potato variety called Lal Pakri 1 in an otherwise non-potato growing area of the country. This variety developed by the Advanced Seed Research and Biotech Centre of ACI Limited is being demonstrated widely through the project locations. 6 field days were held in

March 2015, where more than 300 excited farmers witnessed harvesting of the potato. They were pleasantly surprised to see the soils of the coastal belt yield around 23.5 tons per acre of potato, which is much higher than the national average.



Events and Activities

Watering Cans Distributed for Homestead Gardening Promotion

ACI in collaboration with the Innovation Against Poverty (IAP) Program of the Swedish International Development Cooperation Agency (SIDA) has been funding a project to promote climate smart sustainable agriculture in Barisal, Borguna and Patuakhali districts of Bangladesh. The project has supported 1600 women carry out homestead

gardens of vegetables through proper agronomic practice and nursery support. Through this method, they were able to add nutrition to the diets of their families and sell the surplus vegetables in the local market. This year 1600 more women are being supported through the project. 600 women were nominated as model farmers and they

were given water cans by the project as extra support. These cans will make irrigation of the homestead gardens easier leading to better harvests. Through this gesture, the morale of the women has increased and they are motivated to carry on with homestead gardening while teaching the same practices to their neighbors.



Precision Vegetable and Cereal Farming: Field Days to Reach Farmers

To promote climate smart sustainable agriculture in Barisal, Borguna and Patuakhali districts of Bangladesh, ACI-IAP-SIDA project has introduced new, year round, nutritious cropping patterns to the participatory farmers. These include vegetables, cereals and pulses. Large numbers of demonstrations are held and non-participatory farm-

ers judge the success of the crops. Total 17 field days were held in the last quarter on tomato, cabbage, and wheat, where around 600 eager farmers visited the fields. Officials from the Department of Agriculture Extension also visited the fields and spoke highly of ACI's portfolio and the project. The visiting farmers have shown interest to adopt similar

agricultural practices which have been demonstrated through this project.



Events and Activities

Sea Food Extravaganza: New Restaurants join the Cropex Fish Network

In March 2015, three more reputed restaurants of Dhaka became corporate clients of ACI Cropex to ensure fresh sea fishes delivered by the later business. These restaurants are the well known Somtam – Exotic Thai Cuisine, Sigree Dhaka

and Floor 6-Restaurant & Grill. With this extension of business, ACI Cropex has now 6 institutional buyers for sea fish. Once the new wholesale point of ACI Cropex starts its operation, more corporate clients

will be served with an extended storage facility. With the high-quality supply of fresh fish by ACI Cropex, sea food will never have tasted better!



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On behalf of ACI Animal Health, Dr. F H Ansarey, Executive Director of ACI Agribusiness, Handed over the Reptiles Incubator Machine to Dr. Mohammad Nurul Amin, Sub-director of Government's Department of Livestock.

Agri-tech & Communication

Scientists Produce TB-resistant Cows

Scientists in China have produced a herd of genetically engineered cows that are better able to ward off bovine TB infection. The long-term goal of the research is to avoid the need to cull livestock by breeding disease resistant cattle. Bovine TB is a risk in many areas, including New Zealand, England and Wales, and parts of Africa and Asia. In the UK over 26,000 cattle were slaughtered in 2013 at a cost to taxpayers of £100m. Researchers at the Ministry of Agriculture in Northwest A&F University, Yangling, China, used hi-tech genetic technology to insert a mouse gene into Holstein-Friesian cattle. The gene protected the animals against low levels of TB infection.

In research published in the journal,

Proceedings of the National Academy of Sciences, the scientists said: "Our results contribute to the control and prevention of bovine tuberculosis and provide a previously unidentified insight into breeding animals for disease resistance." Commenting on the study, Prof Heiner Niemann, of the Institute of Farm Animal Genetics at Friedrich-Loeffler-Institut, Germany, said the findings were another step towards the creation of disease resistant livestock animals based on advanced genetic tools. "Whether this approach protects cows against TB infection when exposed to high doses of the pathogen remains to be determined," he added.

(Source: BBC News – Science & Environment.
Link: <http://www.bbc.com/news/science-environment-31709107>)



Crops Can do their own Weed Control

In conventional farming, the most frequently used herbicides for weed control have a negative impact on the environment. On the other hand, organic farmers enlist machines to battle unwanted growth. These machines guzzle fuel and produce CO2, while their tyres compact soil and damage its structure. New research results from the University of Copenhagen's Department of

Plant and Environmental Sciences report that weeds would have a tough time competing against crops such as corn, grains and beans if farmers were to alter their sowing patterns.

"Our results demonstrate that weed control in fields is aided by abandoning traditional seed sowing techniques. Farmers around the world

generally sow their crops in rows. Our studies with wheat and corn show that tighter sowing in grid patterns suppresses weed growth. This provides increased crop yields in fields prone to heavy amounts of weeds," states Professor Jacob Weiner, a University of Copenhagen plant ecologist.

(Source: Agriculture and Food News, Science-Daily. www.sciencedaily.com)



Agri-tech & Communication

Korean Scientists Develop Biotech Sweet Potatoes that Grow in Desert

Scientists at the Korea Research Institute of Bioscience and Biotechnology developed a new technology that aims to prevent desertification using biotech crops. According to research leader Dr. Kwak Sang-soo, about 90 percent of desertification is due to poverty. "Overgrazing, damage to forests, and the inappropriate management of water and soil, stemming from the poverty of the local people, are core reasons for desertification. So, the cultivation of crops can be the most effective preventative measure," he explains.

The team successfully planted biotech sweet potatoes in China's Kubichi Desert and Kazakhstan, two of the largest semi-arid areas in

Northeast Asia. They are also decoding the genome of sweet potatoes in collaboration with Chinese and Japanese researchers. The genome of sweet potato is harder to decode than the human genome, but they project that it will be completed in 2016.

Dr. Kwak said, "Our ultimate goal is to grow a large amount of genetically modified sweet potatoes in areas affected by desertification in China, Kazakhstan, the Middle East, and Africa, based on decoded information on the genome of sweet potatoes."

(Source: Crop Biotech Update, International Service for Acquisition of Agri-Biotech Applications. www.isaaa.org)



Scientists Identify Gene that Could Prevent Cross-pollination

Scientists at the University of Guelph identified a gene that could block genetically modified crops from cross-contaminating conventional crops. According to Sherif Sherif, lead author of the study, this discovery may put down arguments against GM food crops.

Sherif and team found a gene that codes for a protein that naturally allows some plants to self-pollinate and produce fruit before the flower blooms. Aside from helping crop farmers and food producers, the discovery might also be a boon for

the perfume industry. The gene may be used to keep flowers closed and allow fragrant flower growers to collect more of the aromatic compounds.

(Source: Crop Biotech Update, International Service for Acquisition of Agri-Biotech Applications. www.isaaa.org)



Agri-tech & Communication

Researchers' recipe: Cook farm waste into Energy

It takes some cooking, but turning farm waste into biofuels is now possible and makes economic sense, according to preliminary research from the University of Guelph. Guelph researchers are studying how to make biofuels from farm waste, especially "wet" waste that is typically difficult to use. They have developed a fairly simple procedure to transport waste and produce energy from it. Scientists have struggled to find uses for wet and green waste, including corn husks, tomato vines and manure. Dry farm waste, such as wood chips or sawdust, is easier to use for generating power. Often, wet farm waste materials break down before reaching their destination.

Researchers led by engineering

professor Animesh Dutta, director of the Bio-Renewable Innovation Lab (BRIL) at U of G, have found a solution: pressure cooking. Cooking farm waste yields compact, easily transportable material that will not degrade and can be used in energy-producing plants. Dutta said the research, which is published in the journal *Applied Energy*, shows that in a lab setting, biofuels can produce the same amount of energy as coal. "What this means is that we have a resource in farm waste that is readily available, can produce energy at a similar level to burning coal, and does not require any significant start-up costs," said Dutta.

(Source: Agriculture and Food News, Science-Daily. www.sciencedaily.com)



New Vessel Monitoring System to Ensure Sustainable Fishery

SRT Marine System Solutions has launched low-cost vessel monitoring system for sustainable fishery management and coastal security in the UK.

The vessel monitoring system uses a fusion of sophisticated terrestrial and satellite AIS technologies to provide governments with a reliable, secure and practical monitoring system for their national fleets of commercial, leisure and fishing

boats of any type and size.

SRT Marine System Solutions CEO Simon Tucker said, "So far, we have worked with our partners to deploy over 50,000 AIS fishing boat identifier transceivers. These are providing authorities with valuable data which is improving the life of fishermen in many ways as well as protecting our valuable fisheries."

(Source: Far Eastern Agriculture, www.fareasternagriculture.com)



India to Map Farms with Satellites to Offer Crop Insurance

India will deploy satellites to digitally map each farmland in the country using GPS technology to offer yield-based crop insurance to farmers, according to a senior government official.

The Global Positioning System (GPS) is a space-based satellite navigation system that provides location and time information in all weather conditions.

"Satellite-based estimation model is very important because of small farm sizes in the country. Based on

the imagery from the satellite, a vegetative index will be determined and after co-relating the data with yield for a particular crop, the yield of the individual farmer will be estimated to work out a tailor-made insurance cover," added the official.

At present, crop insurance in the country mainly covers the loans taken by a farmer and not his farming activities, he revealed.

(Source: Far Eastern Agriculture, www.fareasternagriculture.com)



Agri-tech & Communication

Herbicide for sugarcane launched in India

Agro-chemicals manufacturer Dhanuka Agritech has launched herbicide SEMPRA to protect sugarcane from weeds in India.

Ram Gopal Agarwal, chairman of Dhanuka Agritech, said that the new product will reduce costs for farmers who spent money on manual weeding.

"The new product will cut the cost for farmers by almost half. The product is eco-friendly and will benefit sugarcane

growing states including Uttar Pradesh, Punjab, Haryana, Maharashtra, Karnataka and Tamil Nadu," he added.

The product will soon be available across the country through a network of dealers and distributors, revealed Agarwal.

(Source: Far Eastern Agriculture, www.fareasternagriculture.com)





Believe it or not!



- An **Egg** shell is made of calcium carbonate, which is also the main ingredient in some antacids.
- The shell makes up 9-12 percent of an **Egg's** total weight, and contains pores that allow oxygen in and carbon dioxide and moisture out.
- The color of an **Egg** yolk is determined by hen's diet. The more yellow and orange plant pigments there are in the grain fed to a hen, the more vibrant the color of the yolk will be.
- **Eggs** are about 105 degrees Fahrenheit when laid.
- The average hen lays 250 to 270 eggs a year.



Calorie Chart

Fresh Fruits		
Food Type	Quantity	Calories (Kcals.)
Carrot	78 gm	30
Cauliflower	99 gm	25
Cucumber	99 gm	10
Green Cabbage	84 gm	25
Mushrooms	84 gm	20

Source: www.fda.gov

Agro Tips

For the proper care of crops, we have to use pesticides in many cases. Practically, all pesticides are toxic to humans, animals, and nature. Therefore, great care should be taken in storing, using and disposing of them. For safe handling of pesticides, the following simple precautions should be taken:

1. Keep the insecticides in closed, properly labeled containers. Use the pesticides strictly according to the instructions and recommended doses.
2. The containers containing pesticides should be stored in dry and cool place away from food and fodder, away from the reach of children and animals.
4. Persons handling pesticides should avoid the contact of the pesticides with their skin and inhalation of vapors or mists (by wearing rubber gloves and covering face with a suitable mask).
5. The operators should not smoke, eat or drink anything while applying pesticides. While spraying in open fields, the direction of the wind should be kept in mind.
6. In case pesticides are inhaled or consumed accidentally, a doctor should be called at once after giving the first aid. It is very important that the persons handling the pesticides should have a proper knowledge of the first aid to be given in case of any emergency.

***In order to get answer to any of your agriculture related queries, please email us at biolife@aci-bd.com or visit our Facebook page www.facebook.com/aciagribusinesses.

Readers' Corner

Sharing is Caring!

Rooftop gardens are not only a great way to combat air pollution, global warming and foster peace of mind in the city – they're also beautiful. In fact, productive urban green spaces are an inevitable and exciting part of the future of the world's cities. Urban areas need green space not only for food and combating air pollution, but also to revitalize community life. Take a look at these majestic rooftop greeneries from around Asia!



Parkroyal Hotel, Singapore



Acros Fukuoka building, Japan



Beirut Wonder Forest, Lebanon

ACI Agribusiness

ACI Centre
245 Tejgaon Industrial Area
Tejgaon, Dhaka, Bangladesh
Phone: + 88 02 887-8603
E-mail: biolife@aci-bd.com
sectoedab@aci-bd.com

www.aciagribusinesses.com



ACI Agribusiness

Creating Wealth for Farmers

ACI Agribusinesses, the leading agriculture integrator in Bangladesh, is dedicated to gaining prosperity of Bangladesh through food security. ACI Agribusinesses offers complete solutions to farmers and also educates them about the technical know-how.