

# AVN

## Agro Veterinary News

Pakistan's First Independent Agro Veterinary Periodical

Vol. 33 No. 01 / April 2021

Published Monthly | Reg. No. MC-1209 | ISSN 17228-1512 | Rs 100

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# Sugar barons swindled Rs140 billion: Imran

## AVN Report

**SARGODHA** - Prime Minister Imran Khan said recently that sugar mill owners extracted Rs126 to Rs140 billion from the pockets of the people by increasing the price of sugar by Rs26 in one year. Talking to the media after laying the foundation stone of low-cost housing units under the Naya Pakistan Housing Programme here, the prime minister said: "The government's job is to protect its people."

He added that the government conducted an inquiry into the sugar scam through the Federal Investigation Agency (FIA), which submitted a startling report showing how the mill owners and powerful people had minted money by increasing the price, evading tax, etc. The prime minister reiterated that there could not be different sets of laws for the powerful and the poor as destruction in a society had always been

caused by the powerful elite. Imran Khan said a society cannot survive without rule of law and when the powerful and corrupt elite are not held accountable for their misdeeds. He linked prosperity and progress of a nation to the rule of law and its application to all. Responding to a question regarding release of Mian Shahbaz Sharif on bail, Imran Khan said the



corrupt rulers had siphoned off billions of rupees from the national exchequer. "There were irrefutable evidences about their corruption. Unless a society decides to hold the corrupt accountable, no change can take place," he said, posing a question, "Name a nation where there is rule of law and it is still reeling back in

poverty?" "Today, the issues of poverty and price hike in the country are the symptoms of their corruption," he added. The prime minister also said that he was ready to listen to the reservations of Jahangir Khan Tareen and the Pakistan Tehreek-e-Insaf's like-minded group of 20-30 MNAs and MPAs

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## Bilawal demands resignation from PM over rising inflation in Ramadan

### AVN Report

**KARACHI** - Pakistan People's Party (PPP) Chairman Bilawal Bhutto Zardari has strongly criticized the government for skyrocketing inflation during Ramadan and demanded Prime Minister Imran Khan to have mercy on the public and resign from office. In a statement on Wednesday, the PPP Chairman said that the selected government has spared no effort to pin the public against the wall, adding that record increase in the prices of food items has broken the public's back during Ramadan. Bilawal Bhutto said that the present government is incapable of solving the country's problems. The sudden increase in prices of 16 items including ghee and flour at the start of Ramadan shows the government's incompetence, he added. Bilawal said that inflation rising after the government's announcement of monitoring



**Continued on Page 19**



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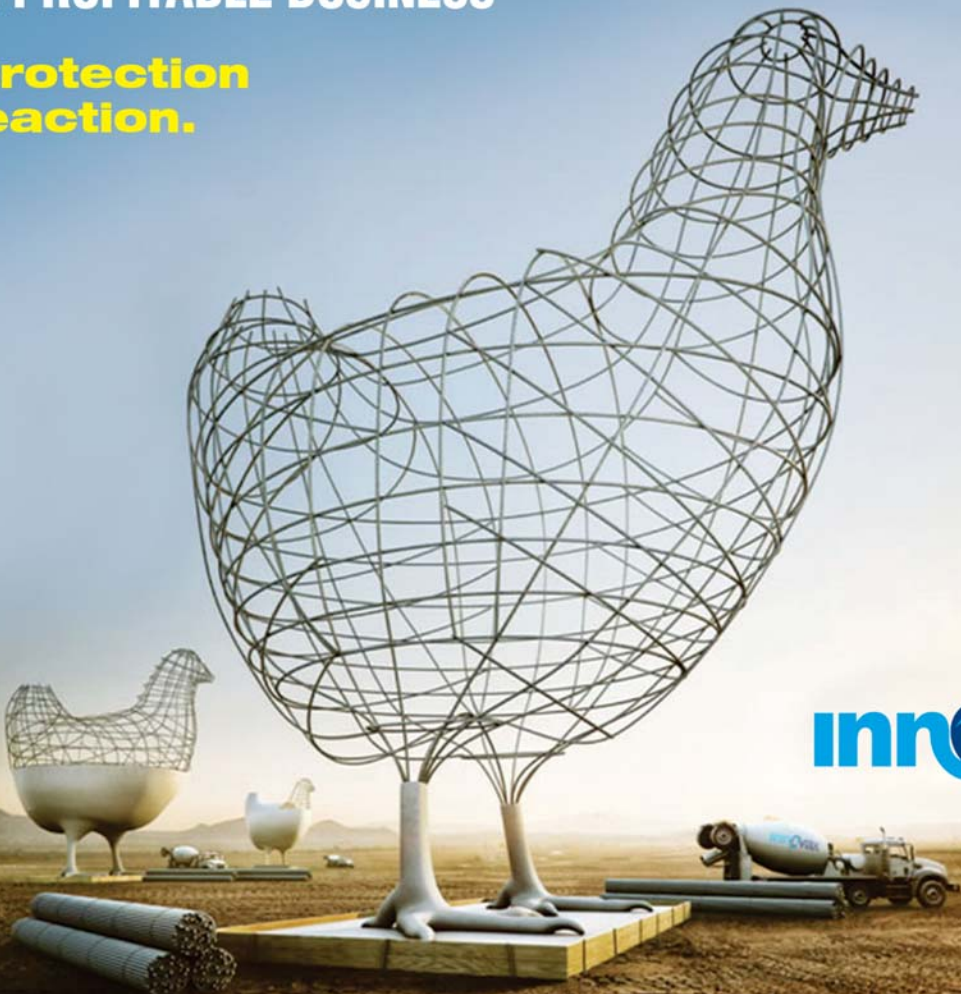
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# Pak-China agricultural cooperation strengthens the people-to-people bond

## AVN Report

**BEIJING** - As China-Pakistan Economic Corridor (CPEC) enters the second phase, an increasing number of advanced Chinese agricultural technologies represented by maize-soybean strip intercropping is being brought to Pakistan to help improve local people's livelihood, promoting the friendship practically. "Agricultural cooperation is closely linked to people's livelihood as an ample supply of high-quality meat, eggs, milk, rice, and flour, etc., can make Pakistani people healthier. This is the most fundamental way of deepening the friendship because that benefits Pakistani people directly," said maize-soybean strip intercropping study leader Professor Yang Wenyu of China's Sichuan Agricultural University recently. Maize-soybean strip intercropping technology, widely recognised by farmers, governments, scientific research institutions, and enterprises in Pakistan, is flourishing across the country this year. "In Pakistan, a great number of people depend on animal husbandry for their

livelihood. Soybean, the premier protein choice for livestock, poultry, and aquaculture production globally, is rarely planted in Pakistan, while the demand for soybeans keeps rising. Pakistan is China's brotherly friend, so we started to help Pakistan revitalise soybean production," Yang told China Economic Net. He is providing generous support for this technology's development in Pakistan, both technically and financially. Maize-soybean strip intercropping technology fits Pakistan's conditions to a tee. "Intercropping doesn't occupy extra land. Moreover, Pakistan's high temperature and strong sunlight make it less likely to succeed in the sole cultivation of soybeans. In the intercropping system, maize can shade and cool soybeans to realise high yields," Yang analysed the success of applying this technology to Pakistan. "To further boost soybean production, Chinese seeds, machinery, and herbicides related to this technology are going to arrive in Pakistan soon," Yang added.



# PM's 'Backyard Poultry Initiative': 1200 birds distributed at rawat

## AVN Report

**ISLAMABAD** - The Islamabad Capital Territory (ICT) Administration's Agriculture Department recently distributed around 1200 birds at Rawat among the individuals belonging to low-income groups under the backyard of the prime minister Poultry' initiative. Director Agriculture and Extension Services Waqar Anwar gave out the birds in a Rawat Civil Veterinary Hospital ceremony. The initiative was aimed at addressing stunted growth in poor households, providing nourishment, supplementing family incomes through the sale of organic eggs, besides job creation, Anwar told media here. Addressing the ceremony, he said birds were being distributed on 30 per cent subsidised rates to the



beneficiaries after imparting them training by the ICT Livestock department and Livestock & Dairy Development Board to benefit from the scheme. He said all the birds were aged 90 days and wholly vaccinated, laying eggs in another week or two. Anwar noted a total of one hundred thousand poultry birds distributed among deserving individuals in four years under the initiative. He expressed the hope that people would get the maximum benefit from the scheme, keeping poultry birds to materialise the

prime minister's vision for the economic well-being of the poor. It may be mention here that the Prime Minister had announced National Agriculture Emergency Program for reformation and rehabilitation of the farming community; several interventions like construction of watercourses, the building of farm ponds, dug wells, and subsidy on enhancing wheat productivity were introduced. 'Backyard Poultry' is one of the interventions, and it targets and focuses audience are rural areas and women.

# Govt approves centralised database plan for food stock

## AVN Report

**ISLAMABAD** - The cabinet recently decided to establish a centralised database to maintain a record of supplies of essential food items available with the federal and provincial governments to ensure the country does not face a shortage. The cabinet meeting, which was presided over by Prime Minister Imran Khan, also took several other decisions, including deferring a proposal to exempt the Kartarpur (Sikhs' religious site) project from the Public Procurement Regulatory Authority (PPRA) rules and allowing the transportation of United Nations Children's Fund (UNICEF) trucks from Karachi port to Kabul. "During last year's wheat and wheat flour shortage, it came to the notice of the federal government that there was no database available to check how much of the commodity was available in the country and where therefore the cabinet decided to maintain a database," said Information Minister Fawad Chaudhry while addressing a press conference outside Parliament House after the cabinet meeting. "With the help of the database, the government will be able to decide on demand and supply as well as transportation, assess prices and further strengthen cooperation between the federal and provincial governments," he added. Under the system, the centre will have the latest information on the sale and purchase of wheat by provinces as their governments would be bound to share details of wheat stocks with the centre. "During last year's crisis, the centre did not know how much wheat was available with the Sindh government," the minister said. Earlier, the cabinet members also welcomed the inclusion of Shaukat Tarin as finance minister. Mr Chaudhry said the cabinet, while keeping in view the United Nations Assistance Mission (UNMA) in Afghanistan and the United Nations Children's Fund (UNICEF), allowing the transportation of a few containers from Karachi to Kabul. He said to ensure effective implementation of the UN



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# High taxes a hurdle to poultry sector growth

## AVN Report

**LAHORE:** Pakistan's poultry processing industry can tap the international market provided its prices are brought down by compensating against the taxes and duties being paid on ingredients and medicines imported by feed millers for the manufacturing of feed.



Currently, exports are haphazard and negligible as the industry is uncompetitive as compared to Brazil. "We are 20-25% more expensive than Brazilian products," said Salman Tariq, Director of a leading poultry processing unit, while talking to the Agricultural Journalists Association representatives. "Regulatory environment is not conducive at all, and we have been in discussion with the Ministry of Commerce and the Trade Development Authority of Pakistan (TDAP) for devising a strategy with the poultry processors for the provision of subsidy so that we become competitive with the Brazilian products in Gulf countries," he said.

"We are not asking the government to give us a flat subsidy, but are instead highlighting that the poultry feed millers pay a hefty amount in duties and taxes on the import of ingredients/ medicines for the manufacturing of poultry feed. "If the government allows this, the processors can easily target Gulf countries, and our exports can increase since the products we are producing are equally good as the rest of the world," he emphasised. The company director said that the processors had about a 5% share in Pakistan's poultry industry, growing at 5-6% per annum. Prices of products being produced at the poultry processing plants are higher compared to the wet market. This is one of the reasons consumers are not inclined to buy such products. "I believe we are not growing in terms of exports," he said, adding, "Even

*Continued on Page 19*

# Stores not being allowed to sell sugar at market rate: PSMA

## AVN Report

**LAHORE** - Urging the government to enable maximum dealers to lift sugar from the mills, the Pakistan Sugar Mills Association (Punjab Zone) laments that the provision stores cannot sell the sweetener at the market rates. In a statement issued here on Friday, a spokesperson for the PSMA also challenges the cane commissioner's assertions about sugar price, saying the officer had not been consulted for the price issue. He says that under a court order, the mills are providing 150,000 tonnes of sugar at a rate of Rs80 per kg for the lower-income group people. But the retail shops other than those that are supposed to sell the subsidised sugar are not being allowed to sell the commodity at the average market rate, he says. "These shopkeepers are arrested, their sugar stocks confiscated, and they are fined heavily. Owing to these factors, sugar has disappeared from the market. When sugar is not there in the market, how will it be available to the people?" He says the dealers and people associated with this business are scared and not inclined to sell sugar. He suggests the government allow maximum dealers to lift sugar from the mills and distribute it to all the stores, shops, and outlets at regular market rates so that sugar



is available in abundance in the market. Without such an arrangement, the spokesperson cautions, the crisis will only worsen. "The government should take stock of the situation, take corrective measures and ensure availability of sugar at reasonable rates and inadequate quantity [in the open market]," he demands. Referring to a statement of Punjab Cane Commissioner Muhammad Zaman Wattoo about sugar prices a day ago, the spokesperson says there has been no consultation with the officer on the subject. Only one meeting was held under the chair of the Punjab chief secretary, wherein the provision of 20,000 tonnes of sugar at a reduced rate was discussed. Nothing could be finalised at that meeting, and no subsequent huddle was held.

He says the cost of sugar (Rs67per kg), as stated by the commissioner, is baseless. As 80pc of the cost is the price of sugarcane, the crop's rate has gone up tremendously during the last crushing season leading to an increase in the sweetener's production cost and subsequent increase in its sale price. Responding to it, Mr Wattoo says he has based his sugar price formula not on consultation. Still, the average sale price of the sweetener the sugar mills had submitted with the tax authorities, which was Rs67 per kg inclusive of their profit but excluding sales tax. The commissioner says if the sales tax is added, the sale price or ex-mill price of sugar comes to Rs78.39 per kg. Answering a query, he says there

*Continued on Page 19*

# FAO to help govt in increasing income of tribal farmers

## AVN Report

**PESHAWAR** - The Food and Agriculture Organisation (FAO) of the United Nations has assured the provincial government of its support to strengthen the economy in tribal districts by improving commercial agriculture production and businesses and developing better cross-border market linkages for farmers and traders. A statement issued here said that the FAO representative in Pakistan, Rebekah Bell, met with MNA Nafeesa Khattak and Mansoor Khattak, the deputy commissioner of Khyber tribal district, and discussed the rural market opportunities for farmers in the newly merged districts of the province and the challenges faced by growers and traders in Khyber. The markets of the Khyber farmers are primarily situated in neighbouring Afghanistan. "The federal government is actively working on strengthening Pakistan's trade relationship with Afghanistan, including improving the performance of border agencies, better border infrastructure, and



improving border clearance procedures," said Ms Khattak. She said that improving agriculture production in the merged districts and connecting small farmers with markets in Pakistan and Afghanistan were the federal government's priorities. Rebekah Bell said that FAO had a longstanding relationship with the federal and provincial governments to support the farmers of the merged districts. "FAO, with the provincial agriculture and livestock departments, assists farmers in achieving better agriculture production outcomes and stronger market linkages to increase their income significantly. We

*Continued on Page 19*



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# Effect of COVID-19 on agriculture and education system of Pakistan

By Dr Nazim Hussain, Mehvish Mumtaz,  
Zulqarnain Baqar  
Centre For Applied Molecular Biology (CAMB), University of Punjab,  
Quaid-e-Azam Campus, Lahore, Pakistan.

COVID-19 is a novel coronavirus disease reported for the first time in Wuhan, Hubei province of China. Initially, the causes of this viral disease were unknown and termed pneumonia. After deep research by the 'Chinese Centre for Disease Control and Prevention (CDC),' the origin of the infection was identified as pneumonia caused by a novel virus. The virus is a member of the coronavirus (CoV) family, and Chinese researchers have dubbed it 2019-nCoV. Then this viral disease spread to other countries by migration of infected people from China. As per the current statistics reported by the WHO, there are 67,618,431 confirmed cases of COVID-19 globally, and 1,544,985 mortalities have been reported. The "Ministry of Health, Government of Pakistan" registered the first case of COVID-19 in Pakistan on February 26, 2020, in Karachi. On the same day, the "Pakistan Federal Ministry of Health" announced an outbreak in Islamabad, the country's capital. The number of new cases was 471 in 15 days, with 20 confirmed cases

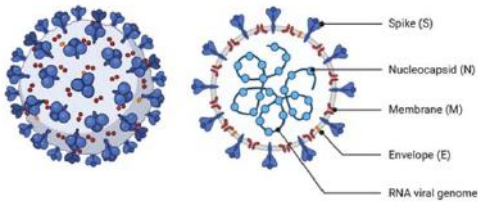


Figure : Structure of COVID-19

of COVID-19. The province of Sindh had the most incidents, with 14, followed by Gilgit-Baltistan with 5, and Baluchistan with one. According to reports, many of the promising cases have recently traveled to Iran, Syria, and London. Pakistan also suffered from the second wave of the coronavirus. Now there is a third wave of COVID-19, spreading quickly day by day. The province of Punjab has more cases of COVID-19 third wave.

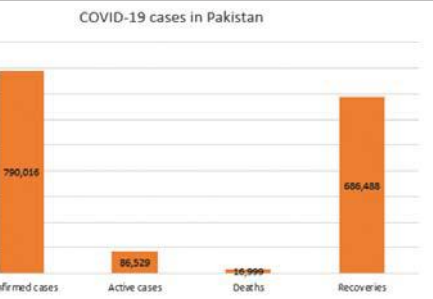


Figure 2: COVID-19 cases, death, and the recovery rate in Pakistan till Apr 23, 2021.

To control the spread of this virus outbreak, the Pakistan government imposed a lockdown and asked people to be safe. This affects education, economy, agriculture, animal life, transportation system, stock exchange, and many other human lives.

## Influence of COVID-19 On agriculture sector

Many countries are finding it challenging to

protect their agriculture sectors from the adverse effects of a pandemic, particularly given the potential for food insecurity. Food preservation has long been a priority for developed countries. In 2018, it was reported that 37% of Pakistanis were experiencing food insecurity. Sindh, Pakistan's second-largest agricultural producer, has 46 percent of the population without access to essential nutritional services and is suffering from malnutrition, including stunted growth. In such sensitive situations, coordinating strategies to combat disease transmission while still providing social security is essential. The country's agriculture sector faces several difficulties, including a recent pandemic that has interrupted productivity by limiting the labor force and limiting transportation options for delivering harvested crops. Wheat, Pakistan's primary food crop, belongs to five major export crops (cotton, wheat, rice, maize, and sugar cane) that account for 4% of the country's gross domestic product. The effect of the global pandemic on production levels must be assessed in terms of market fluctuations. Pulses, which account for 5% of overall cultivated land, are considered a cost-effective vegetable protein source for poor populations. The price per 100 kg of wheat was reasonably consistent until mid-June when it suddenly increased. In rice, there was an initial 6.6 percent rise in price, followed by a weakening pattern until June, where there was a slight increase in July.

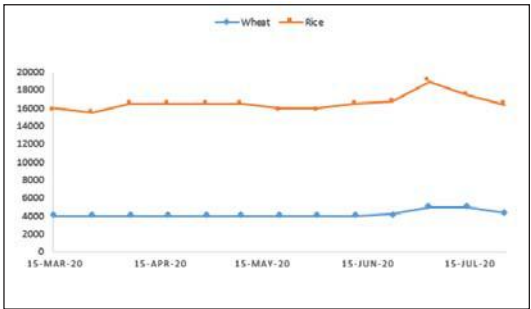


Figure 3: Variation in the prices of wheat and rice per 100 kg in Pakistan from March 15, 2020, to July 25, 2020

Fruits and vegetables are perishable goods with a short shelf life, so they usually are at risk in any agricultural crisis. With an annual production of 1.7 million mangoes in 2020, Pakistan is one of the significant mango producers in the world. Mango is usually harvested in Sindh in mid-May and Punjab in the first two weeks of June. The lack of labor to farm the ripened fruit was the primary source of concern this year. The second big problem was a lack of transportation for moving harvested goods into retail markets for domestic sale when the country was under lockdown. The export market was also affected when the trade of products between countries was briefly halted. The price differences per 100 kg for three main vegetables, namely tomato, potato, and onion, and two fruit varieties, namely apple and banana, are examined from March 15 (the start of the lockdown in Pakistan) to July 25, 2020. Those fruits and vegetables whose seasonal production levels fluctuate the least

in these months are chosen.

**Impact Of COVID-19 On education**  
about 2.2 billion students worldwide are facing COVID-19 and have been forced to stop their formal schooling briefly. To suppress the coronavirus and monitor its widespread dissemination, Pakistan's government has also discontinued traditional academic operations and has temporarily switched to interactive learning systems. This shift to virtual education necessitates a large-scale distribution of capital on time to meet the educational needs of the estimated 47 million (according to 2018 figures) students who have dropped out of school.

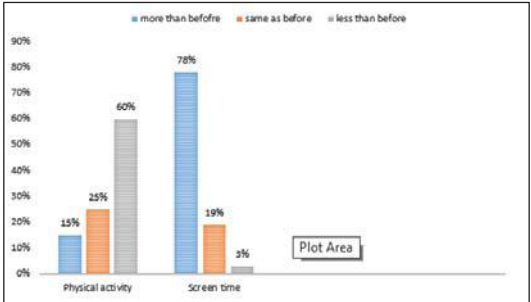


Figure 4: Number of students affected by the COVID-19-induced closure of educational institutions in Pakistan

Owing to a lack of funding, several small-scale educational institutions have permanently suspended operations, resulting in a rise in drop-out rates. With the increase in virtual learning systems, the digital divide has become a concern, particularly in less technologically advanced countries such as Pakistan. Only 22% of the population has access to the internet. The majority of the people, especially in rural areas, lacks access to modern ICT equipment and internet connectivity. Just 16 percent of Pakistan's total population uses smartphones with internet access, while 53 percent use simple mobile phones with no internet service options (as per the statistics of 2018). With the online education system, there is a decrease in students' physical activity (Figure 05). By use of devices screen for an online class, the eyesight of students also affected.

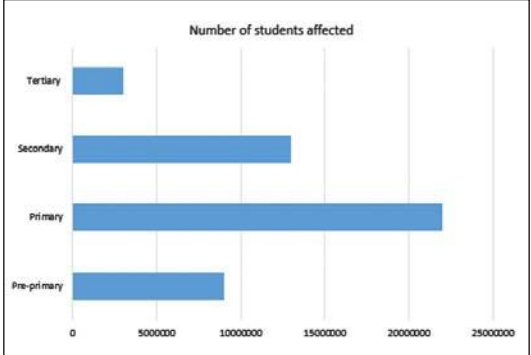


Figure 5: Kids getting less physical activity and more screen time due to COVID-19 outbreak

The government of Pakistan has now moved to a hybrid education structure, with educational institutions opening in phases that combine online and classroom instruction to slow the spread of the virus and avoid an expected increase.



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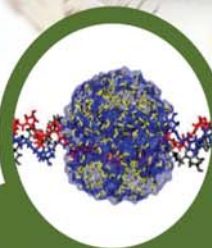
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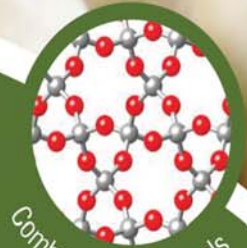
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# Urea and NPN in beef cattle ration

by Muhammad Shahbaz Zafar,

PhD Scholar

Syed Kamran Rasheed Shah

M.Phil. Scholar, Department of Animal Nutrition UVAS Ravi Campus, Patoki



**T**he high cost of feed grains and many high-protein grains may make the use of urea as a protein source very cost-effective in many cattle diets. Several issues must be considered, though, to make its use most effective. Urea is a non-protein nitrogen compound. That is, the nitrogen portion of urea is used as the building block for the production of protein by rumen microbes. Most urea contains about 45% nitrogen, and protein contains 16% nitrogen. Therefore, when urea is converted to protein, the crude protein equivalent value of urea is about 281%. It must be recalled that urea contains no other useful feed components such as energy, minerals, or vitamins. Cattle and other ruminants convert urea to protein through the production of ammonia and carbon dioxide. Sewell (1993) points out the ammonia that is released from urea can go two pathways in the animal. The first location is in the production of microbial protein, and the second is the liver where it is detoxified and excreted in the urine.

When too much ammonia escapes the rumen because the microbes are not able to utilize enough of it for protein, the capacity of the liver for excretion can be overwhelmed and a toxicity can occur. It is vitally important that the right level of urea is fed and that there will be sufficient bacterial action to produce protein. The level of bacterial action will be determined by the urea fermentation potential (UFP) of the total ration. When there is a higher level of fermentable energy available in the feed than what is required by the rumen to convert the ammonia in the feed to protein, the feed will have a positive UFP. If there is insufficient energy in the feed, or the feed already contains significant crude protein, the UFP will be negative. Thus, corn will have a positive UFP and hay and soybean meal will both have a negative UFP. These results indicate feedlot rations high in energy will usually have the best potential for the use of urea as a protein source. However, combining several feeds that result in the dilution of urea as a protein source with other feeds can result in the formulation of a good protein supplement for many classes of cattle on high energy diets.

## Commercial Sources of NPN

The most common NPN source used in ruminant feeding is urea. Many other products have been used experimentally and commercially, but most of them do not compare favorably to urea, because of greater toxicity, higher cost or lower palatability.

**Ammoniated products.** Many low-protein feeds and by-products of the milling industry have been ammoniated and fed as sources of nitrogen for ruminants. Examples are ammoniated molasses, ammoniated condensed distillers' molasses soluble, ammoniated citrus pulp, ammoniated beet pulp and ammoniated furfural (bran-type) residue. These products generally have been found to be less satisfactory than urea as a protein substitute. In some instances they have been more toxic and less palatable than urea.

They cannot be stored for a great length of time, especially under moist conditions, because much of the ammonia will be lost as a gas.

**Ammonium salts.** Diammonium phosphate (DAP) and monoammonium phosphate (MAP) are two ammonium salts that show promise as sources of NPN and phosphorus. Research conducted at the Oklahoma Agricultural Experiment Station indicated that DAP was a satisfactory source of phosphorus, but its nitrogen was not retained as well by sheep as that supplied by urea. Rations containing DAP also were less palatable than those containing urea because of ammonia losses when the feed came in contact with water or saliva. Monoammonium phosphate is more stable and palatable than DAP and is a good source of both nitrogen and phosphorus. Urea. Urea is a simple compound that contains 46.7 percent nitrogen. It is found in many plants and is a normal end product of protein metabolism in mammals. A part of the urea produced in the animal's body is returned to the digestive tract in the saliva and by absorption through the rumen wall. The remainder of the urea is passed off in the urine as waste.

One pound of pure urea furnishes as much nitrogen as 2.92 pounds of protein (protein equivalent of 292 percent). The feed grade of urea has other ingredients, such as kaolin, wheat middlings, rice hulls or limestone, added to it to prevent caking and lumping. This material lowers the protein equivalent to 281, 283, 287 or 262 percent, respectively, depending on the amount added. The 281 urea is the most common.

## Precautions for Feeding Urea

Urea can be harmful to cattle if the proper precautions are not taken to insure success. These precautions include:

- Formulate diets precisely with feed components with known energy and crude protein values from laboratory analysis.
- Use urea to provide no more than one-third of the total protein requirement in the ration.
- Feed the ration at least twice daily to prevent an ammonia overload.
- Weigh all feed components precisely and make sure the urea is mixed completely and uniformly in the ration.
- Do not start feeder cattle on diets with urea. Rather, use plant proteins in starting rations and then convert to urea-containing rations

after 30 days of feeding. Cattle will often have a period of lower intake and lower weight gains during initial feeding of urea-containing rations.

- Urea contains only nitrogen for protein, so mineral, vitamin, and energy values should be adjusted with other diet components.
- Higher rumen-bypass proteins such as distiller's grains (where the more of the protein is absorbed in the lower gut and outside the rumen) are complementary to urea in rations.

## Urea Toxicity

Urea toxicity (poisoning) may be a problem if urea is fed at high levels. Most cases of urea poisoning are due to poor mixing of feed or to errors in calculating the amount of urea to add to the ration. Accidental overconsumption of urea-containing supplements also has resulted in some cases of urea toxicity. If the proper level of urea is added to the ration and it is mixed uniformly, no problem should arise. Urea toxicity is characterized by uneasiness, tremors, excessive salivation, rapid breathing, incoordination, bloat and tetany. These symptoms usually occur in about the order listed. Tetany is the last symptom before death occurs. Laboratory findings of urea toxicity include a sharp rise in blood ammonia levels and a rise in rumen pH. Animals usually die when their blood ammonia level reaches 5 milligrams per 100 milliliters of blood. Rumen pH will rise to about 8, and the normal function of the rumen will cease. When low carbohydrate rations are fed, clinical signs of toxicity can be seen from as little as 0.3 grams urea per kilogram of body weight (.30 grams urea/Kg of body weight) of animals that have not been fed urea previously. Feeding a 450 Kg cow 3-3.5 Kg of 30 percent crude protein cube containing 10 percent crude protein from urea would give 0.3 grams urea per kilogram of body weight.

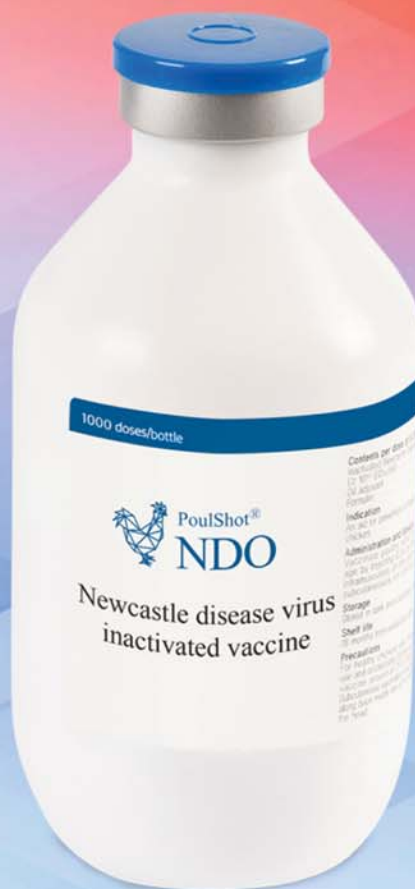
When adequate carbohydrate rations are fed, as much as 1 to 2 grams of urea per kilogram of body weight may not cause toxicity if animals previously have been fed urea. For instance, feeding 15 to 22 Kg of a 30 percent crude protein cube (10 percent CP from urea) to a 450 Kg cow provides this level of urea. Call a veterinarian to treat cases of urea toxicity. As an emergency measure, 1 gallon of vinegar with cold water in the same ratio may be administered to cattle as a drench. Acetic acid furnished by the vinegar lowers rumen pH and neutralizes ammonia, thus preventing further absorption of ammonia into the bloodstream.





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Genetic improvements of broiler flocks for higher growth rate and also formulating high-nutrient density diets, especially for ME level, increased the chick's sensitivity to stress and disease. Issues of these diets may also harm the liver health and become ever endangered by microbial and chemical toxins. These toxins may cause varying degrees of damage to the liver and affect its functions, thereby resulting in poor health and production.

Lipotropic agents are the compounds that can help in utilizing the energy of diets. These compounds help to catalyze the breakdown of fat during metabolism in the body. They promote and encourage export of fats from the liver and help burn the exported fat from the liver during metabolism. Without

lipotropic agents, fats become trapped in the liver causing liver disorder such as fatty liver syndrome.

Quite a number of lipotropic agents are already available in the market and each of them has its own significant function. **Choline** have important role in fat metabolism by stimulating fat transmission and/or increasing the biodegradation of fatty acids to prevent the storage of fat in tissues. **Carnitine** is known for its potential to transport long chain fatty acids into the mitochondrial matrix for beta-oxidation. **Inositol**, like choline, helps to move out fat in the liver and redistribute in the body tissue and use more efficiently as energy. **Betaine** is a methyl donor which prevent inadequate hepatic fat metabolism. **Biotin** helps increase better utilization of fats by increasing the activity of pyruvate carboxylase involved in gluconeogenesis. Some **vitamins** like B5 and B12 are coenzymes which are involved in fat metabolism. **Selenium** helps protect tissue damage caused by free radicals. **Sorbitol** stimulates biliary functions for nutriment assimilation (especially emulsification of fats and absorption of fat-soluble vitamins: A, D, K and E). **Methionine**, a

sulphur containing amino acid, which is an essential constituent of the diet, acts as lipotropic and protects the hepatic cell. **Lysine**, an aliphatic amino acid, is an essential constituent of the diet which improves and stimulates hepatic, biliary and intestinal functions.

Zagro synergistically combined these lipotropic compounds and formulated the product called Heprosol. It is an excellent oral liquid supplement to promote a healthy liver. It efficiently performs its role in nutrient metabolism and utilization. As a liver aid, Heprosol helps prevent fatty liver syndrome and maximize animals' performance.





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## Dengue fever: Current prevalence in Pakistan 2019- 2020

by **Dr Maria Jamil, Dr Muhammad Kashif Saleemi**  
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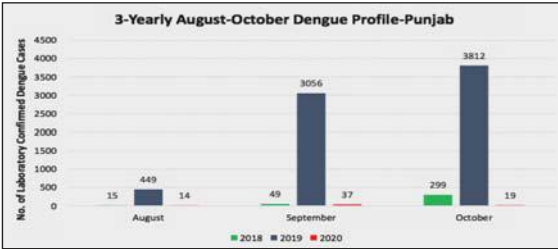


**In Pakistan during different year prevalent of serotype in reported dengue cases**

Year	Prevalent Serotype	Year	Prevalent Serotype
2016	DENV-1, DENV-2, DENV-3, DENV-4	2008	DENV-2, DENV-3, DENV-4
2015	DENV-1, DENV-2, DENV-3, DENV-4	2007	DENV-2, DENV-3
2014	DENV-1, DENV-2, DENV-3	2006	DENV-2, DENV-3
2013	DENV-1, DENV-2, DENV-3, DENV-4	2005	DENV-2, DENV-3
2012	N/A	2004	N/A
2011	DENV-2, DENV-3, DENV-4	2003	DENV-2
2010	DENV-1, DENV-2	1995	DENV-1, DENV-2
2009	DENV-2, DENV-3	1994	DENV-1, DENV-2

Dengue fever is a main concerning issue in Pakistan, assumed that it is a comparatively novel infection compared to malaria. Dengue fever is a mosquito-borne viral disease that occurs by the 4 virus serotypes, i.e., DENV-1, DENV-2, DENV-3 and DENV-4. Infection by 1 serotype offers long term immunity to homologs serotypes while not provide immunity to other serotypes. Progressive infection puts people at higher risk for many dengue fever shock syndrome. Dengue fever is prevalent in Pakistan, with a seasonal increase in cases and circulation of distinct serotypes in several parts of other countries. In a specific area of Pakistan during the last 15 years, people affected by dengue fever have enhanced up to 10-fold since it's essential to analyze the dengue fever infection to decrease as well as inhibit the effects of this infection in Pakistan. GIS (Geographical information system maps) are utilized to recognize the strength of transmission according to the total number of infected peoples in our study area. Generalized linear modeling (GLM) is used to study the consequences of causes linked with dengue fever. In specific regions of Pakistan, dengue fever existed throughout the year. The most markedly affected cities of Pakistan are Lahore and Karachi, and every year number of cases documented in these two famous cities. During the 2006-2019 survey, 2011 was the most

distressing year for Pakistan. In a year in Lahore,  $\geq 17000$  confirmed cases, along with 290 deaths, were documented. The GLM investigation indicates the rainfall, typical extreme temperature and hospital to be the major factors in dengue fever. In Pakistan, health authorities are responding



to the current outbreak of dengue fever. Firstly this outbreak was reported in July 2019 in Khyber Pakhtunkhwa (KP) province. Subsequently, Punjab, Sindh, Balochistan, Azad Kashmir, and Islamabad have also documented Dengue fever cases. By Dengue fever, 75 deaths with 47120 confirmed cases were documented from July to November 2019 in Punjab, Sindh, Balochistan and KP. In KP, from July to November 2019, a total of 7641 dengue fever cases were documented. In Punjab, from August to November 2019, 9676 cases have been reported, along with 16 deaths. From September to November in Sindh province, 12053 dengue cases have been documented, along with 33 deaths. In Balochistan, from September to November total of 3075 dengue cases has been reported along with 3 deaths.

**Prevention and control measures advice by WHO:** The mosquito's vector breeding sites near human habitat is a major risk factor for dengue fever. There is no such precise treatment for dengue fever, while earlier recognition and access to medical care reduce the mortality rate. Additionally, dengue fever control depends on effective vector control strategies WHO promotes Integrated Vector Management (IVM) to prevent mosquito's vector. IVM action must be increased to eradicate the potential breeding sites, decrease vector density and reduce individual exposures. Contain both adult and larval control measures such as management of environment, source reduction and chemical control strategies, and strategies to defend individuals and households. Vector control measures must target all settings where human-vector contact occurs, i.e., place of resistance, hospital and school. Vector control action can include covering, cleaning and emptying of all water storage containers on a weekly basis. Additionally, insecticide at the exact dose may be used in an outdoor water storage container. In the case of indoor biting, household aerosol products, insecticide vaporizer and mosquito quail can decline the biting action and must use according to the instruction on its label. Repellent can be used on exposed skin or clothing. Aedes mosquitoes are day-biting mosquitoes, so insecticide-treated mosquito

Continued on Page 19



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## Sugar barons ...

Continued from front page

who have become active since investigations were opened against Jahangir Tareen over the sugar crisis.

"I am ready to listen to everyone but people should understand why all of this happened," he said. "If anyone has any reservations we can look into it." About the affordable housing project, the prime minister said it was being made possible because in the past no one in Pakistan ever thought of the poor people.

## Bilawal demands ...

Continued from front page

prices during Ramadan was a matter of concern. "The Ramadan package announced by the Prime Minister is nowhere to be seen", he said.

The PPP chairman said that subsidizing utility stores during Ramadan did not absolve the government of its responsibility, adding that inflation in the open market was skyrocketing, where the common man cannot even buy vegetables and fruits for his family. He said that merely changing finance ministers will not alleviate the suffering of the people. The real relief will come when the

incompetent rulers responsible for the inflation go home.

## Govt approves ...

Continued from page 04

Security Council Resolution 1540 regarding control of the export of goods, technology, and instruments related to nuclear and biological weapons. Enforcement of the government's commitment to check the spread of Weapons of Mass Destruction, the cabinet approved the delegation of some powers to the Strategic Export Control Division to enable it to make timely decisions in this regard.

## High taxes a hurdle ...

Continued from page 06

though we could export to Saudi Arabia, the UAE, and some other Gulf states, our competition is with Brazil, and our products are at least 2025% more expensive than the Brazilian products."

"We have even lost Afghanistan as a potential market since it is also importing Brazilian products through Pakistan-Afghanistan transit trade facility. At present, only some companies can export their processed food to Gulf countries which include Saudi Arabia, the UAE, Qatar, Bahrain, and Oman," he said.

## Stores not being ...

Continued from page 06

is no restriction on the purchase of sugar by commercial and industrial users at an open market rate, and sugar mills are free to sell their products to industrial or retail consumers.

He clarifies that 155,000-ton sugar, allowed by the Lahore High Court to be lifted from the mills at Rs80 per kg, is only meant for the domestic consumers, and stern action will be taken if anyone is found selling it to industrial or commercial users such as bakeries, sweet-shops, ice-cream manufacturers, hotels, etc. He claims that the Food Department, with the Punjab Information Technology Board (PITB), has developed a web portal to monitor sugar sales and minimise chances off-the-book sales.

## FAO to help govt in ...

Continued from page 06

look forward to deepening our work with the federal and provincial governments in support of strengthening cross-border trade opportunities for small farmers," he said.

Through various interventions in the merged districts of Khyber Pakhtunkhwa, FAO contributes to

the region's economic growth by providing improved agricultural inputs and farmer field schools and enhanced access to information for smallholder farmers.

With the goal of better production, better nutrition, a better environment, and a better life, FAO is committed to transform the food systems and respond to the emerging needs and priorities of smallholder farmers.

## Dengue fever ...

Continued from page 16

nets provide better protection for those who sleep during day time. Additionally, vector surveillance must guide to control efforts and assess impact.

**Conclusion:** Khyber Pakhtunkhwa and Sindh are principally susceptible for the transmission of dengue fever. Punjab has detected sporadically enhances dengue fever cases. During the rainfall season, especially in monsoon, dengue fever cases in Pakistan enhanced. Lack of proper hospital and clinic are the other main factors and mobile hospitals are required in distant hotspot areas frequently infected through dengue fever. Lastly, better hygiene in metropolises would assist in declining breeding grounds for *Aedes Aegypti* larvae.

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پیسٹیفارم

مرغیوں میں رانی نحت کی بیماری کی دیکھتین

PESTIPHARM

New Castle Disease

(Hitchner B1)

برسیفارم

مرغیوں میں گبورو بیماری کی دیکھتین

BURSIPHARM

Infectious Bursal Disease

Strain 2512 (Intermediate Plus)



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لیواویٹو-15



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GASTRO-INTESTINAL NEMATODES:

- ✓ Trichostrongylus spp
- ✓ Bunostomum spp
- ✓ Oesophagostomum spp

PULMONARY STRONGYLES:

- ✓ Dictyocaulus viviparus



Orient Traders International

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## نصوصیات

لنکاسپر ایڈ-ڈی پاؤڈر وسیع الاثر انتہائی بائیو کسٹس کا مرکب ہے جو ای کوئی، مونیا، مائیگروپلازما، سی آر ڈی، گردوں کی سوش، جوڑوں کے درد اور نظام تنفس کے جراثیموں کے خلاف نہایت موثر ہے۔



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# اے وی این

پاکستان کا پہلا آزاد وٹرنری رسالہ

ایگزیکٹو وٹرنری نیوز

## ملتان میں سبزیوں کے نرخوں میں کمی

ملتان: مقامی طور پر پیدا ہونے والی سبزیات کی منڈی میں سپلائی بڑھنے سے مختلف سبزیوں کے نرخ انتہائی نچلی سطح پر آ گئے۔ ڈپٹی کمشنر علی شہزاد نے سبزی منڈی کا دورہ کیا۔ اس موقع پر سیکرٹری مارکیٹ کمیٹی اعجاز سلیم نے انہیں بریفنگ دی۔ ڈپٹی کمشنر علی شہزاد نے سبزی اور سبزیوں کی آکشن کا جائزہ لیا اور منڈی آئیوا کی گاڑیوں کی تعداد بارے دریافت کیا۔ ڈپٹی کمشنر نے ٹماٹر خریدے کے لئے کے پی کے سے آئے ہوئے بیو پاری سے گفتگو بھی کی۔ بیو پاری نے ڈپٹی کمشنر کو بتایا کہ سستا ہونے کی وجہ سے ملتان منڈی سے ٹماٹر خرید کر افغانستان برآمد کیا جا رہا ہے۔ انہوں نے کہا کہ سبزی منڈی میں دوسرے صوبوں کے بیو پاریوں کی آمد سے مقامی کاشتکاروں کو ان کی محنت کا اچھا معاوضہ ملے گا۔ سبزیوں انتہائی ارزاں نرخوں پر دستیاب ہیں، ضرورت اس امر کی کہ شہریوں کے لئے سبزیوں کی ارزاں

نرخوں پر دستیابی کو یقینی بنایا جائے۔ ڈپٹی کمشنر علی شہزاد نے تمام پیش مجسٹریٹس کو پرائس چیکنگ کی ہدایات جاری کر دیں۔ انہوں نے کہا کہ سبزی اور دیگر اشیائے ضروریہ فروخت کر نیوالے دکانداروں کو ریٹ لسٹ آویزاں کرنے کا پابند بنایا جائے جبکہ ریٹ لسٹ آویزاں نہ کر نیوالوں کو حوالات میں بند کر دیا جائے۔ اس موقع پر ڈپٹی کمشنر نے سبزی منڈی میں کورونا ایس او پیز کی خلاف ورزی کا سخت نوٹس لیا۔ انہوں نے سیکرٹری مارکیٹ کمیٹی کو کورونا ایس او پیز پر عملدرآمد یقینی بنانے کی ہدایت کی۔ ڈپٹی کمشنر نے کہا کہ پاک فوج، رینجرز اور پولیس کے مشترکہ دستے سبزی منڈی کا وزٹ کریں۔ انہوں نے کہا کہ کورونا ایس او پیز کی

خلاف ورزی کرنے والوں کو جیل بھیجا جائے گا۔ دریں اثنا سبزی منڈی میں تھوک کے نرخ پر ٹماٹر 10 روپے کلو فروخت ہونے لگا۔ اسی طرح فی کلو کے حساب سے پیاز کا ریٹ 10 روپے، بند گو بھی 14 روپے، کھیر 20 روپے کلو میں فروخت ہوا جبکہ بیگن 30 روپے، سبز مرچ، دیسی 30 روپے، ٹنڈا 27 روپے، کرپلا 30 روپے اور قلفہ 16 روپے کلو میں دستیاب ہیں۔



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## برائلر گوشت کی قیمت میں مزید اضافہ



لاہور: شہر میں پرچون سطح پر برائلر گوشت کی قیمت مزید 10 روپے اضافے سی 374 روپے، زندہ برائلر مرغی کی قیمت 7 روپے اضافے سی 258 روپے فی کلو جبکہ فارمی انڈوں کی قیمت 136 روپے فی درجن پر مستحکم رہی۔

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