



GrainPro News

VOLUME 11. NUMBER 4 LT2246PV1007-5

AUGUST 2010

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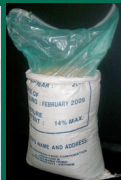
Cocoa in SuperGrainbag-HC



Hermetic Bunker-20K tonnes Wheat



Transafeliner in 20-ft Container



NEW SuperGrainbagSGB IIZ



Loading MegaCocoons & Loaded MegaCocoon



WHAT'S NEW:

SUPERGRAINBAG IIZ WITH ZIPLOCK CLOSURES, EXPANDED SALES FORCE, GP NOW SERVES 81 COUNTRIES, AFGHAN FARMERS TO BENEFIT FROM 1,235 COCOONS, 350,000 SUPERGRAINBAGS, 10,000 COLLAPSIBLE DRYER CASES, HEINEKEN USES COCOONS IN AFRICA

GRAINPRO'S SGB'S CHANGING LIVES OF NEPALESE FARM FAMILIES



Manju Khanal is a member of a small farmer cooperative from a Mulpani village near Kathmandu, Nepal. She grows maize and some rice on a piece of farmland just over an acre. As with many of the thousands of Nepalese small scale farms, the women run and maintain the land which provides a few bags of grain to support a family of four. Her village has been selected by the Post Harvest Department of the Ministry of Agriculture to serve as a pilot for the introduction of GrainPro's SuperGrainbags introduced into Nepal by GrainPro's distributor Pest Control Nepal (PCN). Her concern is not only if the harvest will be sufficient to feed her family, but will she be able to preserve the grain free of infestation and rodent attack in the small storage room in her house. Nepalese subsistence farmers are very familiar with the damage and losses that can occur during the twelve months of storage. They also know that loss of germination of their seeds for the next year's planting, is common, causing unreliable crops and wasted labor. Nepal's Post Harvest Department tried solutions with chemicals and with small metal bins; none of them very successful. The chemicals were not effective and the metal bins were costly and only protected against rodents. At a meeting with 15 women farmers in the village, all expressed their satisfaction with the way their SuperGrainbags performed. Pest Control Nepal is planning to import some 50,000 SuperGrainbags this year. The government has committed itself to subsidy or duty waiver. Hermetic storage is becoming a viable way to increase food security in Nepal.

SUPERIOR COFFEE WITH TRANSAFELINERS™ ACROSS INTERCONTINENTAL DISTANCES

Oscar Rohmoser, General Manager of Industrial Advisory Unit, Neumann Kaffee Gruppe, Costa Rica, writes: "Some very high end coffee from Guatemala and Costa Rica was shipped in bags with GrainPro liners inside. The shipping company lost track of the coffee for two months when the container was left stranded in Mexico. The buyers of the coffee in the US cup tested the coffee upon arrival and found it was as fresh and good as the preshipment samples. The liners worked perfectly well!" (Continued Page 3)

GRAINPRO \$7 MILLION ORDER WILL HELP AFGHAN FARMERS

GrainPro's President Philippe Villers announced receipt of a \$7 million order to help Afghan farmers rebuild sustainable agriculture for its grain production through safe hermetic storage. The GrainPro solar dryers are called Collapsible Dryer Cases™ (CDC™). Delivery is to be completed by mid-2010 of 1235 Cocoons™, 350,000 SuperGrainbags™ (SGB's™) and 10,000 Collapsible Dryer Cases™ (CDC's™). GrainPro will train Afghan support personnel and later establish an Afghan customer support staff in Afghanistan.

HYBRID SEED STORAGE SPREADS FROM PHILIPPINES

Following extensive testing in the Philippines by the International Rice Research Institute (IRRI), field use of multi-month hermetic storage for rice and other seed is expanding in Asia and Africa. BayerCropScience Philippines, a major international producer of hybrid seeds, uses a large number of Cocoons™ and SuperGrainbags™ in India, Indonesia, and the Philippines for safe storage of high value hybrid rice seeds to preserve germination levels without refrigeration. (Continued on Page 3)

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OVER 80 COUNTRIES USE OUR HERMETIC STORAGE

Afghanistan, Angola, Australia, Bangladesh, Belgium, Benin, Bolivia, Botswana, Brazil, Burkino Faso, Cambodia, Cameroon, Canada, Chad, China, Cyprus, Colombia, Costa Rica, Dominican Republic, Ecuador, El Salvador, Eritrea, Ethiopia, France, Gabon, Gambia, Ghana, Guatemala, Guinea Bissau, Hawaii, Honduras, India, Indonesia, Israel, Italy, Ivory Coast, Jamaica, Japan, Kenya, Laos, Lesotho, Madagascar, Malawi, Maldives, Mauritania, Mozambique, Mexico, Nepal, Netherlands, Nicaragua, Nigeria, Panama, Papua New Guinea, Paraguay, Pakistan, Peru, Philippines, Portugal, Puerto Rico, Rwanda, Senegal, Singapore, Sri Lanka, Sudan, Switzerland, Tanzania, Thailand, Togo, Tunisia, East Timor, Tunisia, Turkey, Uganda, United Arab Emirate, United Kingdom, United States, Vietnam, Zambia, Zimbabwe

COMMODITIES STORED

Barley * Rice Bran * Coffee* Cocoa * High-moisture Corn * Figs * Maize* Narcissus bulbs* Rice (basmati, bran, milled, paddy, organic) * Peanuts * Sorghum * Wheat * Pulses * Sorghum and many types of seeds



Fig 1 (Left)
Loaded 1050 Tonne
MegaCocoon - Maize

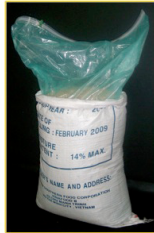


Fig 2 (Right)
SuperGrainbag IIZ Inside
protective bag

NEW GRAINPRO PRODUCTS

The NEW SuperGrainbag IIZ

Features reduced permeability and a convenient zip lock type closure.

Collapsible Dryer Case™(CDC)

For drying commodities, closes with zipper when it rains,
Available from 25-75 m2

INDIA TEA STORAGE TRIAL A SUCCESS

A trial conducted at an outdoor Tea Plantation in Kavalangad, Kerala, a very humid coastal area of India, showed that hermetic technology works for tea if stored at moisture contents between 3%-5%.

GRAINPRO EXPANDS IN LATIN AMERICA

With its Regional Manager, Jose Maria "Chema" Gomez, and a growing number of representatives, GrainPro has been greatly expanding its sales in Latin America. Coffee, Rice, Corn and cocoa growers and traders in Bolivia, Brazil, Guatemala, Costa Rica, Honduras, Panama, Peru, Colombia and El Salvador now use 60-70kg SuperGrainbags, 1 tonne SuperGrainbags-HC or Cocoon as well as TSL hermetic liners inside standard shipping containers. An increasing number of coffee farmers are using the CDC (Collapsible Dryer Case) to dry their beans.

NEW SALES MANAGERS & DISTRIBUTORS

To keep up with its growth, GrainPro now has Continent Managers, and a growing number of Regional Managers. The Continent Managers are: Avinash Ramchandra Wagh (Indian Subcontinent) Chema Gomez (Latin America) Daniel Tesfaye Haileselassie (Africa).

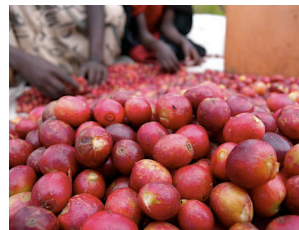
Our New Regional Managers are Cleiton Soares (Brazil and Southern Cone) and Ken Peralta (Asia). Burak Usta (Turkey, Middle East).

New Distributors are Agrifam, Mersin, Turkey, Askar G Merchandise in Kampala, Uganda Enterprise SEBA3D in Benin Agro Innova S.A.S in Colombia, Afrique Phyto Burkina in Burkina Faso, Arimitsu de Costa Rica in Costa Rica and Nicaragua Tecnicas Universales SA, in Guatemala, Honduras and El Salvador, Chemicals & Marketing Co. Ltd in Malawi, Tanzania and Zambia, Agritech Mali, in Mali

Due to increased demand for GrainPro products, our total staff has grown from 3 to over 100 in three years. GrainPro regional managers cover most of the world.

GRAINPRO LINERS PROVE TO BE VALUABLE INVESTMENT FOR SUSTAINABLE HARVEST - PORTLAND, OREGON

"It was news that an importer dreads: during the export process, bags of high value Tanzanian coffee were mishandled and arrived damp and muddy to the U.S. Sustainable Harvest staff drove to the warehouse to inspect the coffee, fearing it was ruined. They took moisture content readings from the coffee in both damaged and undamaged bags, and the percentage was identical. Then they cupped both samples, and found the quality equally good. Good luck? Not quite.



Tanzanian Coffee Cherries



SuperGrainbags Damaged in Transit

For some shipments, Sustainable Harvest's customers are deciding to invest in GrainPro liners that protect the coffee beans inside the jute bag by limiting their exposure to moisture and keeping the beans fresh during transit. In this case, the Tanzanian cooperative had carefully sealed the green coffee inside GrainPro liners as they had been trained to do by Sustainable Harvest. Thanks to this investment, the coffee arrived safe and sound, no luck needed."

KENYA ELIMINATES TARIFF ON HERMETIC STORAGE

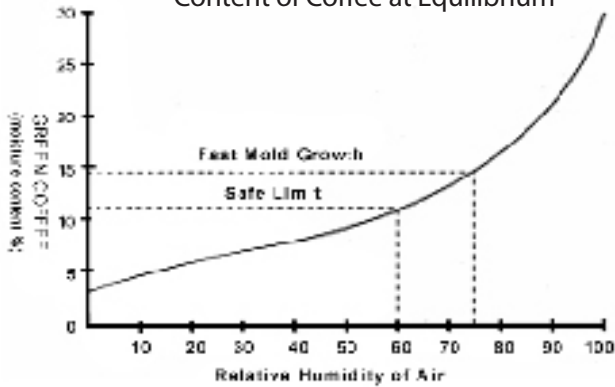
Daniel Tesfaye Haileselassie, GrainPro's Africa Continent Manager, announced that in accordance with its policy of encouraging domestic agriculture, the Kenyan government has agreed to eliminate all tariffs on hermetic storage systems for agriculture.

COCOON™ AND SUPERGRAINBAG™ STORAGE FOR COCOA



A major African cocoa exporter recently concluded after extensive testing that hermetic storage was superior in protecting cocoa beans from deterioration, and now has purchased several hundred large Cocoon for cocoa storage. A particular problem with cocoa is the effect of molds and oxidation, which increase free fatty acids (FFA's) that seriously impact the quality of cocoa butter. Under hermetic storage, oxygen levels typically go down to under 1%, protecting the commodity from molds, increase of FFA's and insects. A new study undertaken by Food Technology International Consultancy Ltd., and reported in a paper at the 2010 International Working Conference on Stored Products (IWCSPP) in Portugal show that growth of rancidity producing FFA's (Free Fatty Acids) can be dramatically reduced through hermetic storage.

Fig 3 Relative Humidity of Air vs. Moisture Content of Coffee at Equilibrium



HYBRID SEED AND RICE STORAGE SPREADS FROM PHILIPPINES

(CONTINUED FROM PAGE 1)

According to Bayer CropScience - Bioscience Manager, Mrs. Analen de la Rosa, "Losses due to weevil infestation and common storage pests were significantly reduced to close to zero percent, thereby solving the company's major problems during storage. The previous 3-month record of hermetic storage using Arize-Bigante (a hybrid rice seed) shows a minimal reduction in germination rate".

GrainPro's purpose is also to maintain high germination rates in hot humid climates for up to one year without refrigeration. This has been successfully implemented in the Philippines, China, India, and Indonesia, where various types of seeds are being stored in GrainPro's pesticide-free hermetic systems, such as Cocoons or SuperGrainbags™.

According to Martin Gummert, Researcher at IRRI (International Rice Research Institute), "Hermetic Storage of Rice is becoming increasingly popular across Asia, and for good reason - as well as being transportable, it is better than air-conditioned storage and almost as good as a cold room, at a fraction of the cost."

FIRST SHIPMENT OF GRAINPRO PRODUCTS TO UGANDA

Mrs. Kellen Kayonza of Askar G/Merchandise in Kampala is GrainPro's newly appointed distributor in Uganda. Uganda, due to its climate and fertility, is a major corn supplier to surrounding countries. Many farmers see their opportunity in storing for some time and wait for prices to go up. Several private farmers as well as NAADS, the National Advisory Agricultural Services, have placed their first orders for Cocoons and CDC's. Uganda may be a good place to grow grain, but the hot and humid conditions are adverse for storage. GrainPro Cocoons will enable long term storage without the need for fumigation and reduce the chances for aflatoxin.

SUPERIOR COFFEE

"Overall, it appears that under standard warehouse conditions, long-term storage in GrainPro, compared to jute, may preserve coffee much better, leading to moisture content in the desired range and ultimately to better cup scores."

- Roast Magazine, July / August 2008

SUPERIOR COFFEE WITH TRANSAFELINERS™ ACROSS INTERCONTINENTAL DISTANCES (CONT'D FROM P.1)



Using the same low permeability material as the conventional SuperGrainbag™ (patent-applied-for), the company now also provides the TranSafeliner™ (TSL), which allows airtight hermetic transport of commodities inside a standard shipping container.

"We used the TranSafeliners™ with every shipment of our coffee during the last season as a means to secure the quality while in transit all the way to our clients roasters in the United States and Germany. We were insuring ourselves that we would not have any returns because spoiled coffee that might have been very expensive and difficult to replace, especially because of the shortage of coffee in that particular period. The results were excellent."

~ Estuardo Falla,

General Manager, Flora S.A., Agropecuaria Salfar S.A. and Finca San Sebastian

HEINEKEN BREWERY USES COCOONS

Sierra Leone Brewery Ltd., a Heineken Brewery in Africa, has adopted hermetic stores for its brewery grain stored in Freetown. Hermetic storage enables the brewery to store grain for many months without the use of toxic and hazardous fumigants. GrainPro is at present trying to educate staff at other breweries to adopt hermetic storage and thus contribute to a greener environment and increase food safety, while preserving quality for up to many months of storage.

NOW SHIPPING NEW SUPERGRAINBAG IIZ (WITH ITS IMPROVED "ZIPLOCK" ENCLOSURE)

GrainPro is making high volume use of SuperGrainbags even more convenient with its SGB IIZ, which is a ziplock type closure and improved ultra low permeability of 3cc/m²/day. Recently released are 1 and 2.4 tonne capacity versions of the SuperGrainbags-HC (High Capacity) equipped with "ziplock" type rapid closures. The SGB-HC is now used in the coffee industry in both Asia and Latin America as well as for the storage of aromatic rice in Thailand.

STORING HIGH MOISTURE CORN & RICE

In the case of corn, some growing areas such as Mindanao in the Philippines, with two crops a year, find that drying is frequently inadequate because of rain. Mechanical drying in sufficient quantities is unaffordable. However recent proprietary tests run in Asia by a major international grain corporation and corroborated by a detailed scientific study under Professor Arnold R. Elepano at the University of the Philippines in Los Banos (UPLB) has convincingly demonstrated that for pelletized animal feed a diet of 50% fermented corn stored at up to 28% moisture content mixed in with normally dried corn significantly increases both the weight gain versus time, and the gain-to-feed ratio for young pigs without any deleterious effects. Professor Arnold R. Elepano's research report concluded that "even after 96-150 days of storage, high-moisture corn can be used to feed breeding cattle and swine, mature poultry, finishing swine and beef cattle".



LARGE SCALE CORN STORAGE IN COCOONS

Today customers around the world are using airtight Cocoons™ of up to 1,000 tonne capacity to store corn preventing the otherwise dangerous growth of fungi and their release of aflatoxins. In the 150 tonne flexible airtight Cocoon™ shown above, a modified atmosphere is created when the oxygen level sinks to under 1% and CO₂ levels of 50% or more are reached. Because sufficiently airtight storage prevents the growth of aflatoxins, a breakthrough in corn processing for feed use is now possible.

COCOONS & CDC'S FOR E. KENYA

Kenya has a long tradition of food deficiency and cyclical droughts. This year the rains are abundant and there are bumper harvests. In many regions in the country there are no storage facilities and farmers are afraid to keep the grain in their houses, lest it be consumed by pests and weevils.

Farm Concern International in a program financed by USAID had introduced a first batch of Cocoons and CDC's (Collapsible Dryer Cases) to Kenya and Uganda. Recently 2 Cocoons of 20 MT were set up in Kenya's Eastern Province in Meru and Mikinduri. Farmers in Meru were amazed by the capability of GrainPro's CDC to dry corn from 16 to 14% in less than three hours. More than 150 farmers struggled to be able to store their grain in the Cocoon, when earlier demonstrations showed them that grain stored for some time in the Cocoon had no more live insects. The Cocoons were set up in the Chief's camp and at the compound of the Chairman of the farmers organization.

More USAID funded Cocoons will find their way to Tanzania and other E.African countries, enabling farmers to benefit of better market prices.

GrainPro, Inc., a GREEN NOT ONLY FOR PROFIT COMPANY is the world leader in airtight and modified atmosphere hermetic post-harvest storage systems. Visit us online at WWW.GRAINPRO.COM

20,000 TONNE HERMETIC BUNKER IN JORDAN



In June 2009, the Jordanian Royal Court recognized the need for large-scale storage of wheat and contacted GrainPro to assist in the creation and filling of a Hermetic Bunker™. Using the SuperScoop Grainthrower from Sudenga Industries provided by GrainPro, GrainPro's field service support team trained the Jordanians in assembly, filling and unloading the Bunker. Storage of 20,000 tonnes of wheat in a Hermetic Bunker was a new idea for them, but made the most economical and practical sense. Bunker storage is generally under \$10 USD per stored tonne and has a 10 year life span resulting in under \$1/stored tonne/year. Due to the successful installation, Jordan is discussing expansion of the initial Bunker project in Al Zarqa, Jordan.

SAFE STORAGE OF HIGH MOISTURE RICE

Rice with a moisture level of up to 15.7% has been stored hermetically at 30 degrees (C) for 6 months in the Philippines and was found in a test performed by the National Food Authority, to be entirely satisfactory in taste, aroma and nutrition for human consumption. Similarly, above critical moisture level paddy originating from N. China is stored in Shanghai in Cocoons. Previously, this type of paddy needed to be stored in air conditioned warehouses.

NEW PITS INTEGRATED SYSTEM

GrainPro now offers its patented PITS system (Protected Integrated Transport and Storage System) for users who wish to protect commodities against the effects of rodents, moisture, insects, free fatty acids and molds from initial storage to far away destinations, without double handling by the user.

Conventional 50-100 kg storage bags on pallets are stored in 20-tonne capacity Cocoons. When ready for transport the load is transferred to standard shipping containers lined with GrainPro TranSafeliners (TSL's) for full protection all the way to destination thus eliminating deterioration in transit and possible weight loss.

MEXICO BATTLES THE WEEVIL

The International Maize Research Center, CIMMYT (Centro Internacional de Mejoramiento de Maiz y Trigo) in Mexico has recently completed an evaluation of GrainPro's SuperGrainbags™ (SGB) showing them to be a safe way to fight the damage due to the voracious weevil which is causing major damage to crops in Central America and South Sahelian, Africa. CIMMYT estimates postharvest losses in some parts of Mexico to be as high as 30%. CIMMYT recommends the widespread use of SGB's™ in those areas where damage caused by the weevils is most pronounced.

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