## ceylontoday \* Sunday 19 JANUARY 2014 ENVIRONMENT 5 Co-co-coconuts likely first cultivated in From the coconut fronds, By Apsara Perera island Southeast Asia. to the nuts to the kernel to the shell, every bit of the meaning the Philippines, Renewable Energy, national research **CEYLON TODAY FEATURES** coconut is used. The Malaysia, Indonesia, and institutes and the national coconut (the fruit of the perhaps the continent as universities. palm Cocos nucifera) in one The consensus was that while s an island nation, Sri well. In the Indian Ocean Lankans are rather neat package that provides the likely center of mitigating efforts should continue to a high-calorie food, potable cultivation was the attached to their pol. It is a reduce the emission of greenhouse gases, it is most important to build the water, fiber that can be southern periphery of given that coconuts play a large role in our lives, after all, spun into rope, and a hard India, including Sri Lanka, adaptive capacity and reduce the shell that can be turned vulnerability of natural resources coconut trees are a common enough the Maldives, and the and communities. site in Sri Lanka and their value is Laccadives. into charcoal, to name a priceless to the Sri Lankan way of life few of its uses. From The rapid expansion of - think of any event that does not have cooking to cursing (pol the coconut industry had Saving the nuts gahanawa), to weddings to begun in the late 1850s and a coconut or some part of the tree playing a role, however minor, in it pilgrimages, from accelerated in the 1860s. Professor H.P.M. Gunasena, handicrafts to quenching Much of the expansion had Chairman, Coconut Research and you will realize that it is next to Institute (CRI), speaking to Ceylon the thirst, the ubiquitous occurred before coffee; impossible to come up with an answer to that one. coconut is a humble however the ruin of the Today stated the CRI has developed partner of Sri Lankan life. The effect of climate change on coffee industry may have strategies to adapt to climate change Protecting a gift of nature In early Sanskrit contributed to the effects and the biggest problem is the crops has oft been talked about. Sri Lankan being so close to the equator, writing, the coconut is extension of area under low yield resulting from extreme face its own list of challenges which, referred to as a kalpa coconut. weather events such as prolonged Soon tea and spice vriksha, which translates In the face of uncertainty inclusion of a tree component not surprisingly, also has a negative droughts. traders from Ceylon were impact on one of the country's oldest as a 'tree that gives all that 'Due to droughts, the button nuts about climate change and its in both annual and plantation shipping whole coconuts to key exports - coconuts. is necessary for living'. agricultural lands for fall and the per palm yield is reduced. impacts, the International We are recommending ways to Antonio Pigafetta, a London, an operation that Conference on Climate Change mitigation and adaptation to nobleman from Venice Impacts and Adaptations on proved impractical and overcome drought effects by soil and climate change should be Changes around us water conservation methods, growing encouraged. This will be of wrote in 1519 that expensive. A French **Environment and Food** A significant change in the "coconuts are the fruit of Security highlighted the company, J.H. Vavasseur trees with coconut palms to change considerable importance in the distribution of weather patterns, the palm trees. And as we and Company, set up the microclimate and also advocating following: coconut sector as pollination is operations in Ceylon with including increases in global have bread, wine, oil, and water harvesting techniques. Also, we 1. Plenty of research is being adversely affected by extreme temperature, changes in rainfall vinegar, so they get all a unique solution -they heat events which could be are developing new varieties that undertaken by several national could tolerate the drought effects and overcome by inclusion of trees patterns, changing the character of these things from the said shredded the coconut meat research institutions, and dried it thoroughly plan to release them in 2015," he seasons and increasing the likelihood trees... With two of these development agencies and in coconut plantations. 5. As rainfall receipts in the elaborated. universities on various topics of extreme events such as flash floods, palm trees a whole family (desiccated coconut), droughts and cyclones is what climate of ten can sustain itself... making it easier to pack Unfortunately, the coconut growers related to climate change, but south-west and north-east change generally means to tropical They last for a hundred without spoilage. By the they are scattered and re not funded by any source for monsoons are predicted to differ water harvesting and meeting the effects of climate change. countries such as Sri Lanka. As food early 1890s they were uncoordinated. These research production interacts closely with shipping 6,000 tons of 'If they are compensated to overcome projects should be listed under storage was suggested as important to secure water water and all other natural resources, desiccated coconut, a these effects, before the events, it will a national research agenda and **Early times** security for agricultural and the predicted changes in the climate figure that multiplied by be a better safeguard," stated Prof. conducted as multidisciplinary will have enormous impacts on The fruit has a special ten in 1900. Gunasena. programmes linked to the domestic purposes. Other adaptations for water related mention in the (History sources: He further stated that the CRI implementing agency of the agriculture, which would lead to Mahavamsa texts of Sri serious consequences in food security. ceylonkokonati.com, receives funds for development on national climate adaptation issues discussed were the use Sri Lanka has already witnessed Lanka, dating back to the sciencedaily.com, A history climate change research from the strategy, the Ministry of of short duration rice and government. "The Ministry of **Environment and Renewable** climate change effects. According to First Century BC. In the of Sri Lanka – K.M. De other crop varieties, methods Environment is the focal point for Energy for critical analysis scientists, Sri Lanka being an island Pacific, coconuts were Silva) of water saving techniques in and effective dissemination of nation situated close to the equator is climate change in Sri Lanka. They, in agricultural production and turn, are in constant touch with global preserving the tank system in more vulnerable to changes in the findings to the end users. temperature, floods, landslides, organizations working on climate 2. The need for advanced the dry zone. extended droughts causing water change adaptation and mitigation prediction of extreme events 6. Crop breeding was shortages; hence crop losses and programmes. We also work with them accurately as it is essential for highlighted as prerequisite to destruction of natural resources are very closely," he added. overcome biotic stresses. Thus, national planning for now becoming more and more change experts from the United managing unexpected breeding of rice and other field crops, horticultural crops, Kingdom (UK), World Agroforestry disasters without disrupting frequent. At the International Conference on vegetables and fruits, Centre, India, the international the national development development agencies such as the plantation crops resistant to Climate Change Impacts and initiatives of the country. Adaptations on Environment and Food and Agriculture Organization, 3. Comparative assessment climate change impacts were Food Security held in 2013, the urgent of indigenous knowledge and suggested. In the plantation **United Nations Development** need to develop and implement a Programme, World Bank, Asian farmer's experiences in crops screening for Development Bank, and the national plan to prepare the predicting climate change reproductive survivability, communities to meet the challenges International Water Management breeding varieties for heat should be comprehensively of climate change was stressed. Institute and the officials of the studied, documented and stress, screen clones for The participants included climate Ministry of Environment and disseminated among farmers tolerance to quality parameters, persuading for adaptation to climate change. growers to adapt good agricultural practices and 4. Home gardens dominated changing the microclimate with trees have shown resilience for climate change through the integration of agroforestry systems. for over 50 years; hence the