Sustainable Agricultural Practices For Better Farming

Muhammad Khalid

Sustainable agricultural practices have demonstrated environmental, economic, and social benefits and have also contributed to responsible care of natural resources.

In order to prevent online fraud, the Department of KP released a list of approved apps to the Play Store. This list is intended to help users identify legitimate apps and avoid scams.

The Department of KP has announced an additional investment of $23 million in the Arabian Oil Refinery Project. This investment is in response to the nation's demand for cheaper crude oil and oil products.

Pakistan Import Russian Crude Oil At Big Discount This Month

Dr. Shah emphasized that the goal of World Quantum Day is to celebrate the advancement of science and technology and how it can be understood and appreciated at its most fundamental level. He also discussed the importance of increasing awareness and understanding of quantum science worldwide.

World Quantum Day, which is observed on April 14th, promotes an increase in public understanding of the importance of quantum science in today's world.
**Mubashar Ali Khan**  

**Project Based Learning: An Emerging Learning Theme**

**Teachers create a role for a project for their context and plans, and plan its implementation from launch to culmination while allowing for some degree of student voice and choice**  

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Project Based Learning (PBL) is one of the most promising methods of teaching for the 21st century. In Project Based Learning (PBL), students are engaged in real-world problems and phenomena and are asked to develop solutions. Project Based Learning (PBL) on environmental issues is a valuable teaching strategy that can help students understand the environmental and social aspects of agriculture.

The agricultural sector is a key sector in the implementation of sustainable development. It is clear that action must be taken in view of the concern about the biological, economic, and social sustainability of current agricultural systems. Agriculture faces significant challenges due to climate change, population growth, and resource scarcity. Innovations in technology and mechanization have contributed to increases in productivity and efficiency, but at a cost to the environment. It is important to consider the sustainability of current agricultural systems, taking into account the needs of the future generations.

Good agricultural practices can ensure the sustainability of agricultural systems. Sustainable agricultural practices include the use of appropriate technologies, efficient use of resources, and improved management of the environment. They aim to reduce the environmental impact of agricultural activities, protect soil, water, and biodiversity, and achieve economic and social benefits.

In recent years, many initiatives have been launched to promote sustainable agriculture, such as the United Nations Convention to Combat Desertification (UNCCD) and the Paris Agreement on Climate Change. These initiatives aim to reduce the negative impacts of agriculture on the environment and enhance food security and nutrition.

Sustainable agricultural practices include the use of organic matter, conservation tillage, integrated pest management, and crop rotation. These practices help to maintain soil fertility, improve water use efficiency, reduce the use of chemical inputs, and increase crop yields.

Sustainable agricultural practices also involve the use of crop rotation, which helps to maintain soil health, reduce disease and pest pressures, and improve nutrient availability. Integrated pest management involves the use of multiple strategies to control pests, such as biological control, cultural practices, and chemical pesticides. These strategies help to reduce the use of chemical pesticides, which can have negative impacts on human health and the environment.

Sustainable agricultural practices also involve the use of renewable energy sources, such as solar and wind energy, to power agricultural activities. These practices help to reduce the dependence on fossil fuels and decrease greenhouse gas emissions.

Sustainable agricultural practices also involve the use of appropriate technologies, such as precision agriculture, which uses sensors and other technologies to monitor crop health and provide timely interventions. These technologies help to improve the efficiency of agricultural systems, reduce input costs, and increase crop yields.

Sustainable agricultural practices also involve the use of water conservation techniques, such as drip irrigation and water harvesting, to decrease water use and improve crop yields. These practices help to reduce the dependence on conventional irrigation systems, which can have negative impacts on water resources.

Sustainable agricultural practices also involve the use of appropriate policies and regulations, such as certification programs and subsidies, to encourage the adoption of sustainable agricultural practices. These programs help to provide financial incentives for farmers to adopt sustainable agricultural practices and reduce the negative impacts of agriculture on the environment.

Sustainable agricultural practices also involve the use of appropriate education and training programs, such as extension services and farmer field schools, to provide farmers with the knowledge and skills to adopt sustainable agricultural practices. These programs help to increase farmers' awareness of the benefits of sustainable agriculture and provide them with the necessary tools to implement these practices.

Sustainable agricultural practices also involve the use of appropriate research and innovation, such as genetic improvement and biotechnology, to develop new crop varieties and improve crop yields. These practices help to reduce the negative impacts of agriculture on the environment and increase food security and nutrition.

Sustainable agricultural practices also involve the use of appropriate institutions and governance, such as government agencies and non-governmental organizations, to promote sustainable agriculture and ensure the implementation of sustainable agricultural policies. These institutions help to provide support and guidance to farmers and ensure the sustainability of agricultural systems.

Sustainable agricultural practices also involve the use of appropriate partnerships and networking, such as public-private partnerships and farmer cooperatives, to promote sustainable agriculture and ensure the implementation of sustainable agricultural policies. These partnerships help to provide support and guidance to farmers and ensure the sustainability of agricultural systems.
Citruss are the largest group of plants in the flowering plant kingdom (Angiosperms). There are over 400 species belonging to 50 genera, but most are in the genus Citrus, with the most species in the family Rutaceae. The dominant species are from the subfamily Aurantioideae, which includes the genera Citrus, Poncirus, and Fortunella. They are commonly cultivated for their fruit, which is a highly nutritious food source.

In terms of cultivation, citrus fruits are grown in a variety of climates and soils, but they require warm temperatures and a lot of light to thrive. They are typically propagated using grafting techniques, which allows for the transfer of desirable traits from one plant to another. The fruit is harvested at the optimal stage of maturity, usually from November to March in Pakistan.

There are many different species of citrus, each with its own unique characteristics. In Pakistan, the main citrus species cultivated are lime (Citrus aurantiifolia), lemon (Citrus limon), and orange (Citrus sinensis). These species are grown in different parts of the country, with lemon and orange being the most common in the north and lime being more prevalent in the south.

The citrus industry in Pakistan is a significant contributor to the country's economy, providing employment for many farmers and their families. However, the industry faces several challenges, including pests and diseases, climate variability, and market fluctuations. Despite these challenges, the industry continues to grow and diversify, with new varieties being introduced and new markets being developed.

Future research and development work should focus on improving citrus cultivation practices, developing new varieties with improved traits, and exploring new markets and value-added products to increase the industry's potential.

Agricultural Problems In Pakistan And Their Solution

There are multiple solutions to agricultural problems in Pakistan, but a lack of integration, use of modern technology, and investment in agricultural research have limited the progress. There are many practical solutions to the problems of food safety in Pakistan. The government should ensure that food is safe for consumption, and the private sector should invest in research and development to improve food safety standards.

In Pakistan, citrus fruit is predominantly cultivated in the southern part of the country. However, the industry faces several challenges, including pests and diseases, climate variability, and market fluctuations. Despite these challenges, the industry continues to grow and diversify, with new varieties being introduced and new markets being developed.

Future research and development work should focus on improving citrus cultivation practices, developing new varieties with improved traits, and exploring new markets and value-added products to increase the industry's potential.
A digital platform to transform villages digitally to solve basic problems through the latest technologies.

Sajid Bhutto conducts survey in 20 villages of districts Jamshoro, Hyderabad, and other Sindh districts. He found that there are villages in Sindh that are more developed in villages like mobile phone, debit/credit cards, and even computers and laptops but they use them only for entertainment. They are not using them for earning as youth from all over the world are doing. They don’t want to go urban areas for skill development and earning through technologies. Young around the world are earning money while using latest technologies and earning an impact of about 50 million USD in global economies.

Pakistan has opportunity to tap it by developing young minds in this direction. Specially those who live in rural/most of population lives in rural areas and there are not much opportunities in villages for skill development and earning through technologies. Most of the people from rural areas do not want to go urban areas for skill development due to some cultural, demographic and political reasons. To find out the real problems in rural areas Mr. Sajid Bhutto conducted survey in 20 villages of districts Jamshoro, Hyderabad, and other Sindh districts. He found that there are villages in Sindh that are more developed in villages like mobile phone, debit/credit cards, and even computers and laptops but they use them only for entertainment. They are not using them for earning as youth from all over the world are doing. They don’t want to go urban areas for skill development and earning through technologies. Young around the world are earning money while using latest technologies and earning an impact of about 50 million USD in global economies.

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Researchers Discover Way To Eliminate Forever Chemicals

A method has been developed to recycle primary forever chemicals, which typically take hundreds or thousands of years to decompose. Researchers have found a way to process and permanently eliminate dangerous chemicals, or per- and polyfluoroalkyl substances (PFAS) to use their correct name, from drinking water.

They are notable to the public for the first time. With more than 4,000 different substances in use, PFAS applications are more likely present in your home of place of employment. They frequent seep into the environment and end up in drinking water, soil, sediment, and rainwater, where they can be consumed by people and animals.

Since the 1940s, industry has used these synthetic chemicals in a variety of products, including water repellent clothing, food containers, non-stick surfaces, food packaging, and paper coatings. It's a trick question because, contrary to what their moniker suggests, it's a chemical, and it's a forever chemical. Researchers have determined that their use will continue to exacerbate and break records.

The US FAA has awarded a contract to a company that will develop a new way to automate flights. The FAA's Automated Flight Control System (AFCS) is undergoing a major upgrade to improve safety and efficiency. The new system will be able to automatically pilot an aircraft without human intervention.

Merlin Receives US$1 Bln To Fly Autonomous Cargo Flights

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Supreme Court Declines To Block $6 Billion Student Debt Settlement

A class-action settlement that requires the US government to forgive more than $200 billion in student debt has been rejected. The settlement was reached between the Education Department and borrowers who had been defrauded by for-profit colleges.

Sea Levels Along US Southeast And Gulf Coasts Rising: Study

Sea levels along the Southeast and Gulf coasts of the US have been rising at a faster rate. The study estimates that sea levels will rise by 11.5 inches by 2040. This rise is projected to continue at a rate of 1 to 1.5 inches per decade.

Museum Offering $25,000 For Fragments Of Meteorite Landed In US

A space rock that struck Australia last year has been discovered. The meteorite was a rare object, and it was a large fragment, weighing over 100 pounds. The owner of the meteorite has offered a reward of $25,000 for information leading to its recovery.

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