

Grade 11 Agricultural Sciences M...

(b) Water rises the slowest

(1)

3.2.5 Give a reason for the answer in QUESTION 3.2.4 (a) and (b).

(2)

Hide Answers

3.2 Handling facility

3.2.1 Formulation of hypothesis

In clay soil water moves slowly✓ to reach the greatest height ✓

OR

Sandy soil has a low capillarity ✓ than clay soil/ vice versa ✓

(Any 1 x 2)

(2)

3.2.2 Type of water movement demonstrated

Capillary movement / Capillarity ✓

(1)

3.2.3 Labelling of soils

Soil A – Clay ✓

Soil B – Sand ✓

Soil C – Loam/silt ✓

(3)

3.2.4 Indicating the soil where the following occurs

(a) Water rises most rapidly – Sand ✓

(1)

(b) Water rises the slowest – Clay ✓

(1)

3.2.5 Reason for the answer

The rapid rise of water in sandy soil is the result of a large number of macro-pores which allow rapid water movement ✓ and the micro-pores in clay retard the motion of water ✓

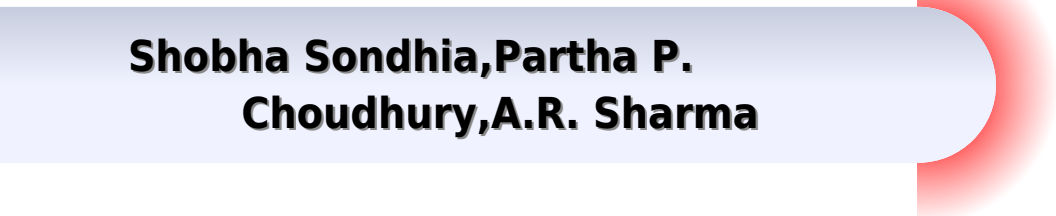
(2)

3.3 The data below shows the soil temperature readings at two different depths measured from 06:00 until 18:00.

Time	Temperature reading on the surface (°C)	Temperature reading 20 cm deep (°C)
06:00	08	04
08:00	10	04
10:00	14	05
12:00	21	12
14:00	27	16
16:00	24	18
18:00	19	16

Grade Agricultural Science November 2014

**Shobha Sondhia, Partha P.
Choudhury, A.R. Sharma**



Grade Agricultural Science November 2014:

Daily Graphic Kingsley Inkoom,2014-09-06

Daily Graphic Ransford Tetteh,2014-09-10

Herbicide Residue

Research in India Shobha Sondhia,Partha P. Choudhury,A.R. Sharma,2018-10-30 Herbicides constitute about 60% of the total pesticides consumed globally In India the use of herbicides started initially in tea gardens and picked up in the 1970s when the high yielding varieties of rice and wheat were introduced Presently 67 herbicides are registered in the country for controlling weeds in crops including cereals pulses oilseeds fibre and tuber crops and also in the non crop situations These chemicals are becoming increasingly popular because of their efficiency and relatively low cost compared with manual or mechanical weeding operations The contribution of herbicide to total pesticide use which was only 10 15% during the first decade of the 21st century has now increased to about 25% with an annual growth rate of 15 20% which is much higher than insecticides and fungicides Though the application of herbicides is minimizing yield loss to a great extent their residues in the food chain and surface and groundwater create some environmental nuisance particularly to non target organisms Research on pesticide residues in India was started during 1970s when such chemicals were introduced on a greater scale along with high yielding variety seeds irrigation and chemical fertilizers for increasing food production However the herbicide residue research was not given much emphasis until 1990s The Indian Council of Agricultural Research initiated a national level programme known as All India Coordinated Research Project on Weed Management through the NRC Weed Science as the main centre along with some centers of ICAR Institutes and state agricultural universities Over the last two decades adequate information was generated on estimation degradation and mitigation of herbicide residues which were documented in annual reports bulletins monographs and scientific articles However there was no consolidated compilation of all the available information providing a critical analysis of herbicide residues Accordingly an effort has been made in the publication to compile the available information on herbicide residues in India This is the first report of its kind which presents the findings of herbicide residues and their interactions in the biotic and abiotic environment There are 16 chapters contributed by the leading herbicide residue scientists each describing the present status of herbicide use crops and cropping systems monitoring degradation and mitigation followed by conclusions and future lines of work This book will be useful to the weed scientists in general and herbicide residue chemists in particular besides the policy makers students and all those concerned with the agricultural production in the country

Derelict Mines Ravi Naidu,2024-09-17 Mine areas left behind by companies that no longer exist are defined as derelict mines those that were operated and closed at a time when most countries did not have adequate regulations requiring rehabilitation of the impacted mine areas This book provides unique information on the extent and severity of derelict mines impact on environmental degradation and human and environmental health It examines the nature of derelict mines short term and long term risks to sensitive receptors tools for monitoring and prioritizing risks and technological advances for rehabilitation This book considers a risk based approach

to managing derelict mines which is reliable and cost effective FEATURES Provides fundamental information on derelict mines and their inventory in different countries Explains risk based management of derelict mines and the importance of community perspectives as a reliable and cost effective method Identifies ownership and liability issues through many case studies in Australia and other countries that must deal with the remediation of derelict mines Presents remediation assessment and predictive tools for managing pit lakes Helps readers set standards regulatory measures and policies related to mine closures This book is for engineers and professionals who work in mining geology chemistry mineralogy geotechnics and hydrogeology and deal with industrial site management waste management mine closures mine site reclamation derelict mine remediation and mine revegetation It is also an insightful resource for graduate students academics and researchers focused on these courses

The Indian Journal of Agricultural Sciences, 2017-07 *Arsenic in the Environment: Bridging Science to Practice for Sustainable Development As2021* Albert van der Wal, Arslan Ahmad, Branislav Petrusevski, Jan Weijma, Dragan Savic, Patrick van der Wens, Erwin Beerendonk, Prosun Bhattacharya, Jochen Bundschuh, Ravi Naidu, 2024-01-19

The Congress and Exhibition Series Arsenic in the Environment offers an international multi and interdisciplinary discussion platform for research and innovation aimed towards a holistic solution to the challenges posed by the environmental toxin arsenic with global societal impact The Congress has focused on cutting edge and breakthrough research in physical chemical toxicological medical agricultural and other specific issues on arsenic across a broader environmental realm The Biennial Congress and Exhibition Arsenic in the Environment was first organized in Mexico City As2006 followed by As2008 in Valencia Spain As2010 in Tainan Chinese Taiwan As2012 in Cairns Australia As2014 in Buenos Aires Argentina As2016 in Stockholm Sweden and As2018 in Beijing P R China The 8th International Congress As2020 was held June 7 9 2021 first time digitally owing to the global COVID 19 pandemic in Wageningen The Netherlands and with a title Arsenic in the Environment Bridging Science to Practice for Sustainable Development The Congress addressed the broader context of arsenic research aligned on the following themes Theme 1 Arsenic in Natural Soil and Water Systems Theme 2 Arsenic in Agriculture and Food Production Theme 3 Health Impacts of Arsenic Theme 4 Technologies for Arsenic Removal from Water Theme 5 Sustainable Mitigation and Management for Sustainable Development Arsenic in drinking water and food is a major health issue affecting millions of people in many parts of the world In recent years serious cases of arsenic exposure through different environmental matrices have been reported from for example Argentina Bangladesh Chile China Taiwan Turkey India Mexico UK USA Pakistan Vietnam as well as other regions in the world Arsenic can cause a number of carcinogenic and non carcinogenic adverse effects on human health and therefore human exposure to arsenic should be avoided Notably The Netherlands has been in the forefront of research on arsenic removal technology and developed a cutting edge innovation to remove arsenic to levels below the WHO drinking water guideline to as low as less than 1 g L This has created an enabling environment to discuss on policy issues for defining the new drinking water guideline

The Congress has attracted professionals involved in different segments of interdisciplinary research on arsenic in an open forum and strengthened relations between academia research institutions government and non governmental agencies industries and civil society organizations to share an optimal ambience for exchange of knowledge

Data and Research to Improve the U.S. Food Availability System and Estimates of Food Loss National Research Council, Institute of Medicine, Food and Nutrition Board, Division of Behavioral and Social Sciences and Education, Committee on National Statistics, 2015-01-02

The United States Department of Agriculture's USDA's Economic Research Service's ERS Food Availability Data System includes three distinct but related data series on food and nutrient availability for consumption The data serve as popular proxies for actual consumption at the national level for over 200 commodities e g fresh spinach beef and eggs The core Food Availability FA data series provides data on the amount of food available per capita for human consumption in the United States with data back to 1909 for many commodities The Loss Adjusted Food Availability LAFA data series is derived from the FA data series by adjusting for food spoilage plate waste and other losses to more closely approximate actual intake The LAFA data provide daily estimates of the per capita availability amounts adjusted for loss e g in pounds ounces grams and gallons as appropriate calories and food pattern equivalents i e servings of the five major food groups fruit vegetables grains meat and dairy available for consumption plus the amounts of added sugars and sweeteners and added fats and oils available for consumption This fiscal year as part of its initiative to systematically review all of its major data series ERS decided to review the FADS data system One of the goals of this review is to advance the knowledge and understanding of the measurement and technical aspects of the data supporting FADS so the data can be maintained and improved

Data and Research to Improve the U S Food Availability System and Estimates of Food Loss is the summary of a workshop convened by the Committee on National Statistics of the National Research Council and the Food and Nutrition Board of the Institute of Medicine to advance knowledge and understanding of the measurement and technical aspects of the data supporting the LAFA data series so that these data series and subsequent food availability and food loss estimates can be maintained and improved The workshop considered such issues as the effects of termination of selected Census Bureau and USDA data series on estimates for affected food groups and commodities the potential for using other data sources such as scanner data to improve estimates of food availability and possible ways to improve the data on food loss at the farm and retail levels and at restaurants This report considers knowledge gaps data sources that may be available or could be generated to fill gaps what can be learned from other countries and international organizations ways to ensure consistency of treatment of commodities across series and the most promising opportunities for new data for the various food availability series

Title 7 Agriculture Part 2000 to End (Revised as of January 1, 2014) Office of The Federal Register, Enhanced by IntraWEB, LLC, 2014-01-01 The Code of Federal Regulations Title 7 contains the codified Federal laws and regulations that are in effect as of the date of the publication pertaining to agriculture

Routledge Handbook of Agricultural Biodiversity Danny

Hunter, Luigi Guarino, Charles Spillane, Peter C. McKeown, 2017-10-03 The world relies on very few crop and animal species for agriculture and to supply its food needs In recent decades there has been increased appreciation of the risk this implies for food security and quality especially in times of environmental change As a result agricultural biodiversity has moved to the top of research and policy agendas This Handbook presents a comprehensive overview of our current knowledge of agricultural biodiversity in a series of specially commissioned chapters It draws on multiple disciplines including plant and animal genetics ecology crop and animal science food studies and nutrition as well as social science subjects which explore the socio economic cultural institutional legal and policy aspects of agricultural biodiversity It focuses not only on the core requirements to deliver a sustainable agriculture and food supply but also highlights the additional ecosystem services provided by a diverse and resilient agricultural landscape and farming practices The book provides an indispensable reference textbook for a wide range of courses in agriculture ecology biodiversity conservation and environmental studies

Outbreak Timothy D. Lytton, 2019-04-16 Foodborne illness is a big problem Wash those chicken breasts and you're likely to spread Salmonella to your countertops kitchen towels and other foods nearby Even salad greens can become biohazards when toxic strains of E coli inhabit the water used to irrigate crops All told contaminated food causes 48 million illnesses 128 000 hospitalizations and 3 000 deaths each year in the United States With Outbreak Timothy D Lytton provides an up to date history and analysis of the US food safety system He pays particular attention to important but frequently overlooked elements of the system including private audits and liability insurance Lytton chronicles efforts dating back to the 1800s to combat widespread contamination by pathogens such as E coli and salmonella that have become frighteningly familiar to consumers Over time deadly foodborne illness outbreaks caused by infected milk poison hamburgers and tainted spinach have spurred steady scientific and technological advances in food safety Nevertheless problems persist Inadequate agency budgets restrict the reach of government regulation Pressure from consumers to keep prices down constrains industry investments in safety The limits of scientific knowledge leave experts unable to assess policies effectiveness and whether measures designed to reduce contamination have actually improved public health Outbreak offers practical reforms that will strengthen the food safety system's capacity to learn from its mistakes and identify cost effective food safety efforts capable of producing measurable public health benefits

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