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AGRICULTURE'S IMPACT ON WATER POLLUTION AND ITS REDUCING STRATEGIES

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ABSTRACT

Water is regarded as the world's most important resource for long-term development. It is necessary not only for agriculture, industry, and economic processes, but it is also the most vital component of the environment, having a significant impact on human health and environmental preservation. Agriculture's water contamination is well-known. globally. Non-point source (NPS) pollution, on the other hand, has been shown to be more harmful than pollution from point sources around the world. Due of its intrinsically diffuse character. it is difficult to handle successfully. The polluting of water is known as water pollution. When pollutants are released directly into bodies of water, pollution ensues. or inadvertently into bodies of water without proper treatment to remove hazardous substances. There are two types of water, surface water - rivers, lakes, and oceans (Uses: drinking, recreational (fishing, boating, etc.)) are polluted. Nitrates are the major pollutant of groundwater. Groundwater is a significant source of drinking water in any country. Groundwater in numerous regions has become so polluted that it can no longer be utilized as drinking water according to current regulations. The economic value of improvements in water quality is an important part of evaluating programs to prevent pollution caused by agricultural activity. Many farmers can adopt a variety of initiatives to reduce agricultural pollution loads on water resources. This study discovered that there are both structural and management approaches available for more efficiently managing water and chemical inputs, as well as regulating runoff to reduce irrigation water pollution.

KEYWORDS: *Agriculture, Groundwater, Pollutant, Water Pollution.*

REFERENCES:

1. Tal A. Making conventional agriculture environmentally friendly: Moving beyond the glorification of organic agriculture and the demonization of conventional agriculture. Sustain. 2018;
2. Jain N, Awasthi Y. WSN-AI based Cloud computing architectures for energy efficient climate smart agriculture with big data analysis. Int J Adv Trends Comput Sci Eng. 2019;
3. Kumar S, Shamim M, Bansal M, Gangwar B, Aggarwal RP. Computational modeling and emerging trend in agriculture. In: 2015 International Conference on Computing for Sustainable Global Development, INDIACom 2015. 2015.

4. Dwivedi S, Shikha D. Water pollution: Causes, effects and control. Biochem Cell Arch. 2016;

5. Choudhary M, Jayanand, Padaria JC. Transcriptional profiling in pearl millet (Pennisetum glaucum L.R. Br.) for identification of differentially expressed drought responsive genes. Physiol Mol Biol Plants. 2015;

6. Bhardwaj P, Rai DV, Garg ML. Zinc inhibits ovariectomy induced microarchitectural changes in the bone tissue. J Nutr Intermed Metab. 2016;

7. Schwarzenbach RP, Egli T, Hofstetter TB, Von Gunten U, Wehrli B. Global water pollution and human health. Annu Rev Environ Resour. 2010;

8. Kashyap K, Sharma TK, Rajpurohit J. Logistic map and wavelet transform based differential evolution. Int J Syst Assur Eng Manag. 2020;

9. Sharma TK, Prakash D. Air pollution emissions control using shuffled frog leaping algorithm. Int J Syst Assur Eng Manag. 2020;

10. OECD. Water quality and agriculture: meeting the policy challenge. Key Messages and Executive Summary. OECD Stud water. 2012;

11. Land, agriculture and the environment. In 2002.

12. Cuttle SP, Newell-Price JP, Harris D, Chadwick DR, Shepherd MA, Anthony SGA, et al. A method-centric "User Manual" for the mitigation of diffuse water pollution from agriculture. Soil Use Manag. 2016;

13. Kumar N, Singh A, Sharma DK, Kishore K. Novel Target Sites for Drug Screening: A Special Reference to Cancer, Rheumatoid Arthritis and Parkinson's Disease. Curr Signal Transduct Ther. 2018;

14. Goswami G, Goswami PK. Artificial Intelligence based PV-Fed Shunt Active Power Filter for IOT Applications. In: Proceedings of the 2020 9th International Conference on System Modeling and Advancement in Research Trends, SMART 2020. 2020.

15. FN C, MF M. Factors Affecting Water Pollution: A Review. J Ecosyst Ecography. 2017;

16. Shabbir M. Textiles and clothing: Environmental concerns and solutions. Textiles and Clothing: Environmental Concerns and Solutions. 2019.

17. Stojkovikj S, Oklevski S, Jasuja OP, Najdoski M. Visualization of latent fingermarks on thermal paper: A new method based on nitrogen dioxide treatment. Forensic Chem. 2020;

18. Moss B. Water pollution by agriculture. Philosophical Transactions of the Royal Society B: Biological Sciences. 2008.

19. Kumar A, Ishwar B. Linear Stability Of Triangular Equilibrium Points In The Photogravitational Restricted Three Body Problem With Triaxial Rigid Bodies, With The Bigger One An Oblate Spheroid And Source Of Radiation. Publ Korean Astron Soc. 2015;

20. Sharma P, Berwal YPS, Ghai W. Enhancement of plant disease detection framework using cloud computing and gpu computing. Int J Eng Adv Technol. 2019;

21. Gray MW. Water Pollution and Agriculture. Trans Kansas Acad Sci. 1967;

22. Tesfahun AA, Chawla AS. Risk perceptions and adaptation strategies of smallholder farmers to climate change and variability in North Shoa Zone, Ethiopia. Manag Environ Qual An Int J. 2020;

23. Rosha P, Ibrahim H, Nanda AK, Mohapatra SK, Mahla SK, Dhir A. Effect of hydrogen-enriched biogas induction on combustion, performance, and emission characteristics of dual-fuel compression ignition engine. Asia-Pacific J Chem Eng. 2020;

24. Liakos KG, Busato P, Moshou D, Pearson S, Bochtis D. Machine learning in agriculture: A review. Sensors (Switzerland). 2018.

25. Kaur R, Shikha D, Kaushal A, Gupta R, Singh SP, Chauhan RP, et al. Measurement of indoor 222Rn, 220Rn and decay products along with naturally occurring radionuclides in some monuments and museums of Punjab, India. J Radioanal Nucl Chem. 2021;