



## Soil Properties and Crops Performance as affected by Animal Manure

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### Abstract:

The use of animal manure cannot be overemphasized due to its positive impact on soil and crop, irrespective of manure type. Enhancement of soil fertility and improvement of environment quality are both important aims of today's agriculture. Besides providing valuable macro and micronutrients to the soil, manure supplies organic matter to improve the soil's physical and chemical properties. It also increases infiltration of water and enhances retention of nutrients, reduces wind and water erosion, and promotes growth of beneficial organisms. Efficient use of animal manure could therefore alleviate the problem of declining land productivity in most parts of the world. Manure application to agricultural land requires an appropriate balance between agronomic requirements and negative environmental impacts. Negative impact that could be defined as soil pollution has to do with the addition of heavy metals, organochlorines and too many salts. On the other hand, animal manure has a positive influence on the buildup of soil organic matter and thus improves the soil structure. There is a global move towards developing agricultural production systems which will involve the more efficient utilization of inputs and the reduction of waste products with a view of developing a more environmentally friendly, economically and economically profitable agricultural system.

### Biography:

Abdulraheem Mukhtar Iderawumi is a Principal Technical Officer (Agric), Department of Agricultural Science Education, The College of Education, Lanlate, Oyo State, Nigeria where he carried out various research works and experiments. He is a renowned researcher with many international publications. Abdulraheem's area of study includes Agronomy, Crop and soil management, Soil fertility and plant nutrition as well as Educational field. He has the evaluation and passion in improving the soil nutrients for maximum crop yield through his experience



in the uses of locally source soil amendment materials (Sawdust Ash, Oilpalm Bunch ash) for the improvement of soil physical and chemical properties thereby leading to improve in crop performance and yield. Abdulraheem has to his credit, over Thirty One (31) published journal articles, three (3) chapters in books, two (3) seminar papers and six (6) conference proceedings papers. He has successfully attended Nineteen (19) learned conferences/workshops. He is a member of several professional bodies among which are; Scholars Academic and Scientific Society (SASS), International Union of Soil Science (IUSS), Soil Science Society of Nigeria (SSSN), American Association for Science and Technology (AASCIT), Reviewer: International Greener Journal; Editorial Board Member: A R Research Publication and Conference World, India; Editorial Board Member: Sumerianz Journal of Agriculture and Veterinary; Editorial Board Member: Advance in Agricultural Technology and Plant Science (AATPS) - Chembio Publishers; Associate Editor: Scholars Journal of Agriculture and Veterinary Sciences (SJA VS). SAS Publishers, Assam, India, Editorial Board Member: European Modern Studies Journal, Ukraine; Editorial Board Member: Journal of Environmental Science Studies, Singapore; Editorial Board Member: International Journal of Applied Science. (Ideas Spread Inc), New York among others.

### Publication of speakers:

1. Iderawumi, Abdulraheem. (2012). Integrated Application of Urea and Sawdust Ash: Effect on Soil Chemical Properties, Plant Nutrients and Sorghum Performance. IOSR Journal of Agriculture and Veterinary Science. 1. 38-41. 10.9790/2380-0143841.

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