Modelling Water Quantity And Quality Using Swat Wur

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the high yield input strategy has been successful in narrowing the gap between food and fiber requirements and the growing population however at the same time it has also threatened the sustainability of land and water resources best management practices bmps are technically feasible methods for preventing or reducing nonpoint source pollution to a level compatible with water quality goals long term monitoring of bmp impacts is essential to assess their effectiveness under different conditions however it is impractical to monitor all bmps under all conditions due to time and cost constraints computer simulation models provide an alternative to evaluate the response of soil and crops to a range of management practices in an efficient and cost effective way testing and evaluation of computer models require the use of extensive field data to ensure that they are reliable for the prediction of management effects this study was designed to 1 calibrate and evaluate the subsurface drainage component of swat model 2 test the ability of swat version 99 2 model for predicting nitrate nitrogen no3 n losses with tile flow by comparing the model output versus measured data 3 application of swat model on watershed scale in general swat adequately tracked the measured tile drain flows except that the cumulative monthly tile flows were consistently under predicted differences of 8 4 to 6 and 2 to 11 were determined for the annual simulated tile flows as compared to the corresponding measured flows for the calibration and validation period respectively calibration of swat was performed using tile flow no3 n loss data measured in 1995 while validation was conducted by comparing the model output with measured no3 n losses with tile flow observed in 1993 94 and 1996 97 differences ranging from 2 to 10 and 7 34 to 5 50 were found between annual no3 n losses during the calibration period and validation period respectively indicating that the model tracked the monthly observations reasonably well however the peak no3 n losses were consistently under predicted for all three combinations of tillage and cropping systems the swat model was used to estimate the flow and nitrate loading for umrw watershed the model was calibrated for stream flow and no3 n data measured in 1999 at the outlet of the watershed and model was validated for 2000 and 2001 period the model accurately tracked most of the peak flow events that occurred during the year although the peaks were usually over predicted the model tracked the flow reasonably well but model was unable to track the nitrate trend the under prediction between the simulated and measured annual flow for year 1999 was 24 while 35 for year 2000 and 12 for year 2001 the no3 n was over predicted by 25 22 and 108 for 1999 2000 and 2001 indicating the poor performance of swat model in no3 n simulation

the deterioration of water quality due to human driven alternations has an adverse effect on the environment more than 50 of surveyed surface water bodies in the united states us are classified as impaired waters as per the clean water act the pollutants affecting the water quality in the us are classified as point and non point

sources pollutant mitigation strategies such as the selective implementation of best management practices bmps based on the severity of the pollution could improve water quality by reducing the amounts of pollutants quantifying the efficiency of a specific management practice can be difficult for large watersheds complex hydrologic models are used to assess water quality and quantity at watershed scales this study used a soil and water assessment tool swat that can simulate a longer time series for hydrologic and water quality assessments in the yazoo river watershed yrw this research aims to estimate streamflow sediment and nutrient load reductions by implementing various bmps in the watershed bmps such as vegetative filter strips vfs riparian buffers and cover crops were applied in this study results from these scenarios indicated that the combination of vfs and riparian buffers at the watershed scale had the highest reduction in sediment and nutrient loads correspondingly a comparative analysis of bmp implementation at the field and watershed scale showed the variability in the reduction of streamflow sediment and nutrient loads the results indicated that combining vfs and cc at the field scale watershed had a greater nutrient reduction than at the watershed scale likewise this study investigated the soil specific sediment load assessments for predominant soils in the yrw which resulted in soil types of alligator sharkey and memphis soils being highly erodible from the agricultural dominant region this study also included the effect of historical land use and land cover lulc change on water quality the analysis revealed that there was a significant decrease in pastureland and a simultaneous increase in forest and wetlands which showed a decreasing trend in hydrologic and water quality outputs results from this study could be beneficial in decision making for prescribing appropriate conservation practices

this volume deals with the big picture of regional water supplies how they become contaminated how they can be protected and how they can best serve the surrounding populations and industries significant focus is placed upon the natural chemistry of available water supplies and its biological impacts case studies from regions around the world offer an excellent picture of the world s water resources

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quality improvement expert greene extrapolates currently fully formed approaches as well as nascent approaches to quality further along their lines of development so that readers can gain competitive advantage over international competitors in quality he organizes the profusion of quality approache

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