CHAPTER VII
SUGGESTIONS FOR FUTURE STUDY

It is evident from the experience gained in the present study, that the following areas need further investigations:

1) The SWAT model operates on a daily time step. It does not simulate detailed event based flood and sediment routing. Therefore, research works may be carried out to develop a model to predict agricultural management impacts on long term (100 years) erosion and sedimentation rates.

2) Daily rainfall is input to the model and curve number equation is applied to daily rainfall without accounting for its intensity. Therefore, rainfall intensity for runoff estimation may be further investigated and feature may be imbibed.

3) The sediment routing equations are relatively simplistic and assume that channel dimensions are static throughout the simulation period. This may be unrealistic since simulation may be made even for 100 years. The addition of algorithms to simulate channel down cutting and side slope stability would allow channel dimension to be continuously updated.

4) An attempt can be made to replace the erodibility factor with more detailed models that account for cohesive, noncohesive and armored channels.