**Table 1. Listing of Past and Future Research Objectives Showing Progression of Objectives**

Phase 1 - NC-174, Years 1983 to 1988:

1. Identify and document the effects of erosion on soil properties and crop yields using field plots and models.

Phase 2 - NC-174, Years 1988 to 1993:

1. Continue assessing the effects of erosion on soil properties and crop yields using field plots and models.
2. Evaluate methods for the maintenance and/or restoration of soil productivity of previously eroded soils as evidenced by the field studies and/or model prediction.

Phase 3 -NC-174, Years 1993 to 1998:

1. Continue to evaluate methods for the maintenance and/or restoration of soil productivity of previously eroded soils as evidenced by the field studies and/or model prediction.
2. Develop soil quality standards for agricultural soils being degraded by tillage and erosion which utilized soil property and productivity parameters and threshold values.

Phase 4 - NC-174, Years 1998 to 2003:

1. Determine erosional and landscape impacts on soil processes and properties.
2. Assess management effects on eroded soil productivity and quality of soil, air and water.

Phase 5 - NCT-199/NC-1017, Years 2003 to 2009:

1. Determine spatial C distribution and dynamics in soils of eroded landscapes including 3-dimensional model assessments for better quantification.
2. Assess management (cropping systems, amendments, tillage) effects on C sequestration, productivity and soil quality including the importance of no-tillage on increasing C sequestration in eroded soils.

Phase 6 - Temp 1017/NC-1178, Years 2009 to 2014:

1. Assess management effects on C sequestration and soil productivity including the impacts of crop residue removal on soil organic carbon (SOC) levels and erosion.
2. Determine spatial C distribution and dynamics in the soils of eroded landscapes for better quantification of erosion impacts on soil carbon loss and sequestration.

Phase 7 - NC-1178, Years 2014 to 2019:

1. Evaluate the impact of intensifying agroecosystems inputs (e.g., cover crops, perennial crops) on maintaining/enhancing soil organic C, soil quality, productivity and the environment.
2. Assess management effects (e.g., crop residue removal, tillage) on soil organic C GHG emissions, soil erosion, and productivity.

Phase 8 - NC-1178, Years 2019 to 2024:

1. Evaluate the impact of intensifying agroecosystems (e.g. increased crop rotations/double cropping, and management integration) on soil organic C, soil health, productivity, the environment, and profitability.
2. Assess management effects (e.g. crop residue, tillage, cover crops,) on soil organic C, environmental footprints (e.g. GHG emissions, water quality, water quantity, soil erosion, input use efficiency), and productivity.

Phase 8 - NC-1178, Years 2024 to 2029:

1. Evaluate the impact of soil management and land use decisions on soil carbon stocks, soil health, productivity, and other ecosystem services.
2. Understand and develop resilient soil-scapes for a changing climate and extreme climate events.