

GREEN MEADOW SUBWATERSHED GOALS

Goal 1: Reduce local, Regional, and Basin-wide flood damages to public and private infrastructure

Objective #1: Reduce Subwatershed Peak Volume and Flows

Reduce peak flows by 10-15% and flood volumes by 40-45% from the Green Meadow Subwatershed area.

Objective #2: Improve Overall Dam Safety of the Existing Green Meadow Dam

Improve the ability of the Green Meadow Dam to handle large rainfall or runoff events without overtopping the emergency spillway. Specifically, strategies should reduce the risk of the structure's failure resulting from a 100-yr rainfall or runoff event.

Objective #3: Reduce Risk of Road Damages

Reduce the risk of road overtopping and washout to be consistent with current design standards (i.e. State Highway and County State Aid Highway (50yr) and Local/Township (10-25yr))

Objective #4: Reduce Agricultural Land Damages

Reduce damages to agricultural fields from a 10 year 24 hour runoff event.

Goal 2: Improve the Health of Natural Resources in the Green Meadow subwatershed.

Objective #1: Improve Hydrologic Conditions

Reduce peak flows and the volume of peak runoff throughout the watershed by 20%. Hydrologic conditions of this watershed are considered "flashy". Flows reach a peak quickly and the drop to low flow conditions. In addition, there is extended periods of low/no flow in some watercourses compared to conditions found historically.

Objective #2: Protect and/or Enhance Existing Upland, Wetland, Riparian, and Aquatic Habitats

Protect the existing habitats from degradation and loss. The existing habitats in the subwatershed which provide benefits to fish and wildlife and water quality should be protected.

Objective #3: Restore Wetlands and Grasslands

Restore a wetland and grassland complex of at least 40 acres within the high priority area of Green Meadow subwatershed for wetland and grassland restoration.

Objective #4: Improve Stability of Watercourses

Improve the stability of the Spring Creek and State Ditch 68 below the Green Meadow Dam and other watercourses with substantial lateral erosion, aggradation, and/or downcutting.

Objective #5: Reduce Sediment and Nutrient Loading from Upland Sources

Reduce sediment and nutrient loading from upland areas.

Objective #6: Improve Soil Health

Improve soil health by implementing best management practices including but not limited to: cover crops, residue management, and no-till/strip tillage.

Project Team Approved/Neutral