Menu of Adaptation Strategies and Approaches

Developed for non-forested wetland ecosystems

**Strategy 1: Maintain and enhance hydrologic processes and water quantity.**
Approach 1.1: Maintain and facilitate infiltration and water storage within wetlands, adjacent uplands, and groundwater recharge areas.
Approach 1.2: Maintain and restore a natural hydrologic regime.
Approach 1.3: Restore stream channel processes and restore hydrologic function of waterways connected to wetlands.

**Strategy 2: Maintain and enhance water quality of wetland habitats.**
Approach 2.1: Moderate surface water temperature increases.
Approach 2.2: Reduce soil erosion and sediment deposition.
Approach 2.3: Reduce loading and export of nutrients and other pollutants.

**Strategy 3: Maintain and restore wetland vegetation.**
Approach 3.1: Maintain and restore wetland structure.
Approach 3.2: Maintain and enhance diversity of plant species and their life histories, ecological niches, morphologies, and phenologies.
Approach 3.3: Promote prescribed fire in fire-adapted wetlands.
Approach 3.4: Prevent invasive species establishment and limit their impacts where they already occur.

**Strategy 4: Facilitate transformation of wetland communities by adjusting species composition.**
Approach 4.1: Favor and restore native species and genotypes that are expected to be adapted to future conditions.
Approach 4.2: Increase genetic diversity of seed mixes within appropriate seed transfer zones.
Approach 4.3: Move at-risk species to locations that are expected to provide more suitable habitat.
Approach 4.4: Adjust wetland and composition to meet functional values.

**Strategy 5: Adjust wetland systems to cope with altered hydrology.**
Approach 5.1: Manage systems to cope with decreased water levels and limited water availability.
Approach 5.2: Manage systems to cope with increased water abundance and higher water levels.
Approach 5.3: Design and manage enhanced and created wetlands to accommodate changes in hydrologic variability.

**Strategy 6: Design and modify infrastructure to accommodate future conditions.**
Approach 6.1: Reinforce infrastructure to meet expected conditions.
Approach 6.2: Reroute or relocate infrastructure, or use temporary structures.
Approach 6.3: Incorporate natural or low impact development into designs.
Approach 6.4: Remove infrastructure and readjust system.
