**Initial Setting:** On farmland where water courses or excessive gully erosion is causing damage to the field, other resources or improvements.

**Water and Sediment Control Basin (638)**

1. **Earthen embankment**
   - **D.1 (+)** Impounded water
     - **I.1 (-)** Peak runoff, velocity
     - **I.2 (-)** Flooding
   - **I.3 (-)** Ephemeral gully and streambank erosion
   - **I.6 (-)** Down-slope deposition
   - **D.4 (-) Sediment-borne contaminants to receiving waters**
   - **I.5 (+)** Aquatic habitats
   - **C.1 (+/-) Water quality**

2. **Underground outlet**
   - **D.2 (+) Trapped sediment**
   - **D.3 (-) Gully erosion**
   - **I.6 (-)** Down-slope deposition
   - **I.7 (-) Cost of offsite sediment removal**
   - **D.4 (+) Cost of installation and**
   - **I.8 (+) Cropable acreage**
   - **I.9 (+) Potential crop production**
   - **I.10 (+) Potential income**
   - **I.11 (-) Equipment operating (fuel), maintenance, replacement costs, and labor costs**

3. **Disturbed areas**
   - **D.6 (-) Surface erosion, runoff and sediment production**
   - **D.5 (+) Waterborne contaminants to receiving waters**
   - **I.12 (-) Greenhouse gases**
   - **I.13 (+) Air quality**
   - **C.2 (+/-) Public/private health and safety**
   - **I.14 (-) Agribusiness**
   - **C.3 (+/-) Income and income stability (individuals and community)**

**Critical Area Planting (342)**

**Nutrient Management (590)**

**Integrated Pest Management (IPM) (595)**

**Residue & Tillage Management, No Till 329**

**Conservation Crop Rotation (328)**

**Cover Crop (340)**

**Waste Recycling (633)**

**Note:** Effects are qualified with a plus (+) or minus (-). These symbols indicate only an increase (+) or a decrease (-) in the effect upon the resource, not whether the effect is beneficial or adverse.