NRCS CONSERVATION PRACTICE EFFECTS - NETWORK DIAGRAM

Irrigation Land Leveling (464)

1. Potential of land use change to irrigated crops.
   - D.1 (+) L.T. Agricultural yields
   - D.2 (-) L.T. Labor costs and energy
   - D.3 (+) S.T. Cost of Infrastructure, installation and operation costs
   - I.1 (+/-) Net return to producer
   - I.9 (+/-) Farm profitability
   - C.1 (+) Income stability (individual and community)
   - D.4 (+) Uniform and efficient application of irrigation water
   - I.2 (-) Soil erosion
   - I.10 (-) Sediment deposition
   - I.13 (+/-) Enhancement of fisheries
   - I.14 (+) Quality of receiving waters and groundwaters
   - I.11 (-) Nutrients and other pollutants in surface and groundwater
   - I.12 (+) Biomass
   - I.15 (+/-) Soil quality, depending on tillage & irrigation regimen.
   - I.3 (-) Excessive runoff, flooding, ponding and subsurface water
   - I.4 (-) CH4 and N2O emissions with reduced ponding
   - I.5 (+) Plant health and productivity
   - I.8 (-) Soil dwelling edaphic microflora/fauna

2. Reshaped land surface to planned grades.
   - D.5 (+) Alteration of soil profile through cutting and filling
   - I.6 (-) Soil Condition (potential OM depletion, compaction, salts)
   - I.7 (+) S.T. particulates
   - I.14 (+) Quality of receiving waters and groundwaters
   - I.8 (-) Soil dwelling edaphic microflora/fauna
   - I.15 (+/-) Soil quality, depending on tillage & irrigation regimen.

Initial Settings: Topographic and Soil Conditions suitable for grading/leveling land for the uniform and efficient application of irrigation water

LEGAL
- Associated practice
- Mitigating practice
- #. Created by practice
- D. Direct effect
- I. Indirect effect
- C. Cumulative effect

Notes:
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.