Initial settings: A manure management system where a roofs and covers practice is placed over a waste management facility to: (1) prevent escape of gasses for odor control, prevention of greenhouse effect, and/or energy production; (2) exclude precipitation; or (3) divert clean water

1. Place roofs and covers over facility to capture gasses
   - D.1 (-) Methane released
   - D.2 (-) Odors
   - D.3 (-) Ammonia released

2. Place roofs and covers over facility to exclude precipitation or divert clean water
   - I.4 (+) Nitrogen available for plant growth
   - I.5 (+) Productivity
   - I.6 (+) Potential income
   - I.7 (+/-) Net return to producer
   - I.8 (-) Need for commercial fertilizer
   - I.9 (-) Waste storage volumes
   - I.10 (-) Chance of storage overflow
   - I.11 (+) Water quality

C.1 (+) Community health and well being
C.2 (+) Air quality
C.3 (+) Income and income stability (individuals and community)
D.4 (+) Cost of materials, installation, and maintenance
D.5 (+/-) Runoff Outlet or Conveyance
D.6 (-) Cost of compliance with future regulation
D.7 (-) Need for commercial fertilizer
D.8 (-) Need for future regulation
D.9 (-) Potential biogas production; on-farm energy source
D.10 (-) Soil Erosion – gully erosion
I.1 (-) Greenhouse gases
I.2 (+) Potential biogas production; on-farm energy source
I.3 (-) Cost of compliance with future regulation
I.4 (+) Nitrogen available for plant growth
I.5 (+) Productivity
I.6 (+) Potential income
I.7 (+/-) Net return to producer
I.8 (-) Need for commercial fertilizer
I.9 (-) Waste storage volumes
I.10 (-) Chance of storage overflow
I.11 (+) Water quality
I.12 (-) Soil Erosion – gully erosion

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.