



W05L04:Climate Resilient and environmental benefits

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Environmental benefits are spokes that emanate from the Carbon hub of the “**Environmental Sustainability Wheel**”

- ✓ Increased water holding capacity and use efficiency
- ✓ Increased cation exchange capacity
- ✓ Reduced soil erosion
- ✓ Improved water quality
- ✓ Improved infiltration, less runoff
- ✓ Decreased soil compaction
- ✓ Improved soil tilth and structure
- ✓ Reduced air pollution



- ✓ Reduced fertilizer inputs
- ✓ Increased soil buffer capacity
- ✓ Increased biological activity
- ✓ Increased nutrient cycling and storage
- ✓ Increased diversity of microflora
- ✓ Increased adsorption of pesticides

Carbon
*Central hub of
environmental quality*

Source: Reicosky, 2003