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| |  |  |  |  | | --- | --- | --- | --- | | Rotation | Tillage | Amendments & Nutrients | Commonality | | Profits interacting with short or long-term view and policy | Systems thinking, commitment, long-term view | Shift in awareness to soil biology and systemic effects | **WORLDVIEW**  long or short term, systemic or reductionist | | Cover crops becoming the new norm | Subculture norms spread through farmers’ networks & Generational shift in norms | Social norms around legacy, ease and efficiency | **FARMING NORMS**  neighbors, peer networks, generational | | Research dissemination, meetings, conferences | Formal and informal education about soil | Promotion of soil life and concern for environment | **LEARNING**  Formal, informal, observational | | Policy mandates and organic standard rules | Regulation interacting with erosion and nutrient loss | Policy influence on, and support for, nutrient management | **POLICY**  Mandatory, voluntary | | The interaction of time, climate and labor | Saving time and money interacting with labor on and off farm |  | **LABOR**  Shortage, time scarcity | |  | Specialized equipment, cost and desire | Soil testing and novel technology interacting with application rates and cost | **TECHNOLOGY**  Cost, power, prestige | | Crop properties interacting with sequential crops and with fertilizer and herbicide use & How specific crops attract, or detract unwanted, or wanted, wildlife | Land in perennials as a management marker and challenge | Specificity of crops interacting with organic matter, fertilizer and pesticide needs | **CROPS**  Plant properties | | The soil’s needs and response interacting with farmer’s observations and values | Soil type, field conditions and observation & Landscape and erosion concerns |  | **LANDSCAPE & SOIL**  Erosion, soil type, climate, weather | |  |  | Environmental hazards of manure and precipitation of new markets & Availability and properties of manure | **MANURE**  Type, quantity, availability | |  | Specificity of the operation |  | **SYSTEM**  Conventional, organic |   Table 5: Influences on soil management practices |