REGENERATIVE AGRICULTURE USING BEEF CATTLE

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In today's agriculture, soil must play a key role, regardless of whether we engage in crop production or livestock farming. The condition of the soil significantly influences the response to adverse weather conditions, whether it involves cash crops or forage crops. We must break away from crop production technologies that have been used for decades in order to preserve and improve soil fertility. However, soil-regenerating and soil-conserving techniques often provoke resistance among farmers, particularly from an economic perspective. Many farmers are reluctant to make the switch due to concerns about potential income reduction. Moreover, in recent years, the profitability of agricultural activities has steadily declined. In our work, we aim to present a best practice. This is a complex crop production and livestock farming system that simultaneously provides a solution for improving soil conditions while also offering additional income-generating potential. A real, long-running no-till arable farming operation is complemented by cover crop cultivation, which provides excellent forage for beef cattle. On this "pasture," rotational grazing is practiced—along with supplementary feeding when necessary—until the next crop production agrotechnical process allows it. In this combined regenerative crop production and livestock farming technology, the presence of animals has a highly beneficial impact on soil conditions. The manure and significant amount of urine deposited on the land create a solid foundation for the next crop cycle. The sale of animals increases the farm's profitability per hectare.