Energy efficiency of some conventional and ecological cropping systems in different rotations with wheat crop

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1. High input conventional
2. Medium input conventional
3. Low input conventional
4. Integrated
5. Organic

Organic cropping systems are those in which no synthetic fertilizers or pesticides are used, and the natural ecosystem is relied upon to maintain soil health and fertility.

Medium input conventional systems use a moderate amount of inputs, such as fertilizers and pesticides, to achieve productivity.

Low input conventional systems use minimal inputs, usually focusing on crop rotation and soil management to maintain productivity.

Integrated systems combine elements of both organic and conventional methods to achieve optimal productivity while maintaining environmental and economic sustainability.

High input conventional systems are characterized by high levels of inputs, including chemical fertilizers and pesticides, to achieve high yields.

*Note: The document is in Persian, and the translation into English is a rough approximation of the content. For a precise translation, professional assistance would be required.*