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(PA) can help in managing crop production inputs in an environmentally friendly way. By using sitespecific knowledge, PA can target rates of fertilizer, seed and chemicals for soil and other conditions. PA substitutes information and knowledge for physical inputs. A literature review indicates Page 13/35

PA can contribute in many ways to long-term sustainability of production agriculture, confirming the intuitive idea that PA should reduce environmental loading by applying ...

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precision agriculture has
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sustainability of cropping systems as well as farmers 'income. Farmers in transition to precision agriculture need low-input and effective protocols to delineate homogenous management zones to optimize their actions without past knowledge e.g., yield maps.

Special Issue "Precision Page 18/35

Agriculture for Sustainability" The economics of precision agriculture Jess Lowenberg-Deboer, Purdue University, USA. Precision agriculture is based on the ability to identify inter and intrafield variability and to use this information for more targeted crop management. By using resources more Page 19/35

efficiently, precision agriculture can make agriculture more productive and sustainable.

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developments in monitoring techniques, including proximal crop and soil sensors and remote sensing technologies. The book then discusses how this information is processed to identify management zones and input targets.

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benefits to the environment come from more targeted use of inputs that reduce losses from excess applications and from reduction of losses due to nutrient imbalances, weed...

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intensive sustainable agricultural practices into a precision framework to maximize farm productivity, profitability, and sustainability. This is accomplished through the use of an information ecology that connects farms, data, tools, and people for optimal, realtime decisions.

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herbicides and insecticides). In other words, farmers utilizing precision agriculture are using less to grow more. GPS devices on tractors, for instance, allow farmers to plant crops in more efficient patterns and proceed from point A to point B with more precision, saving ...

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the development and implementation of precision agriculture technologies and techniques for animal or crop health or welfare monitoring, novel structures and systems design for energy efficiency and emissions reduction, improved control of the animal/crop microenvironment, Page 30/35

development and testing of new materials and novel modelling aspects.

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