

Precision Farming: The Future

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Introduction

The Indian farmers were facing the problem of shortage of labour now-a-days. And this is going to be the severe one in the future. Here comes the solution is “Precision Agriculture” called as “Site Specific Farming” (or) Future of Agriculture”.

Precision agriculture is an art and science of utilizing innovative, site-specific techniques for management of spatial and temporal variability using affordable technologies...for enhancing output, efficiency, and profitability of agriculture production in an environmentally responsible manner.

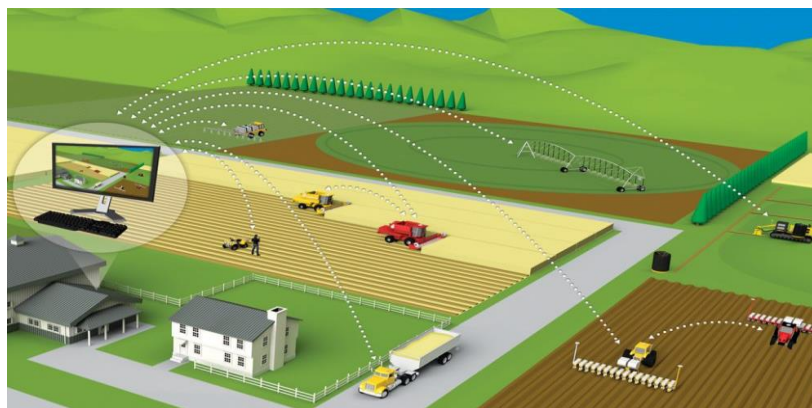
Precision farming

Precision farming is nothing but the use of “Hi-fi” technology in the agriculture, For example: - GPS trackers, drones (or) robots, tiny sensors and cameras, automatic robotic pickers, software are that analyse drone-captured images.



This farming involves sophisticated machinery which collects soil humidity, salinity and nutrient content of the soil. We can also use the economic sensors and cameras to monitor the presence of pests, level of greenness of leaves, presence of weeds, inputs applied, weather forecasting and yield. These machines are often connected to the internet, and send the

information automatically to the “Agriculture based big data firms”, that analyse the information and send the agronomical instructions back to the software machinery, Use of automatic pickers gathers crops twice as fast as humans, Robots or drones. That can precisely remove weeds and pests (or) shoot them with targeted herbicides and pesticides, reduces the use of chemicals 90% less than that of usual.



We Indians with large area are lagging behind the other countries with small area in production is due to lack of awareness in technology Eg: - USA, Israel with higher technology.

Conclusion

It is concluded that precision agriculture, there may be an higher initial cost of cultivation in earlier years but this will reduce the inputs usage and cost of cultivation in later years and reduces the labours. Allowing only the farmers and his wife to carry out the whole farm enterprise.