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Q. Unsustainable farming in the Trans-Gangetic plain region is a major cause for concern. In this context, discuss the challenges in adopting crop diversification and suggest measures to improve.

Ans. Unsustainable farming refers to the farming in which we are not left out with anything for the future generation.

Trans-Gangetic plain regions includes: States of Punjab, Haryana, Rajasthan and UT Chandigarh, Delhi.

Crop Diversification is a method of cropping in which 2 or more crops in an field at a time.

Challenges :-

(i) Lack of infrastructure in India regarding crop diversification

(ii) Lack of Awareness: Many farmers in India are not even aware about crop diversification seeds.



High cost : There is high cost of production for the crop diversification as new varieties of seeds are needed.

(4) Low risk taking ability → Farmers of India have a low risk taking ability as they are afraid of crop failure and subsidies will be given or not.

(5) Lack of Technical knowledge → Crop diversification requires a expertise and Technical knowledge. Which Farmers lack.

(6) Climatic factor → Climate and seasonal monsoon plays an significant role in crops diversification.

(7) Shifting from Food crops to commercial crops Hence can affect the food security of India.

Measures taken : ↓

(1) Proper infrastructure should be created like roads, power, transportation.

(2) Proper training should be given to our farmers so that they can use the resources effectively.

(3) IT solution should be introduced to farmers, so that they can use them into their Agriculture.

(4) Crop diversification of water intensive crops together should be avoided. so that ground water can also be maintained.



⑤ Dryland Agriculture → Indo-Israel Agri project has introduced technologies like poly bag nursery farming etc.

⑥ Soil Health Management → Farmers should take care of their soil and proper management should also be there.

Along with emerging technology and awareness and training of farmers, crop diversification can be win-win situation for farmers as well as our environment. Along with increasing productivity of our land also.