

Should the groundwater for the purpose of cultivation of rice needs to be discouraged? If not, how ground water can be effectively used for cultivation? Explain (200 words)

Rice is one of the major staple food of India.

Being mostly, grown in submerged conditions, it generally requires lot of water.

Ground water for rice discouraged?

↳ In areas, where plenty of water is available rice can be grown - with flooded condition.

↳ But at same time, in areas like Punjab, Haryana the resources upto 60-90% of water used for Rice cultivation

↳ It needs flooding most of time and it gives high yield

↳ So, it needs discouraging of overuse & promote alternate technology

Ahead (a) effective utilization

↳ There are also DSR (Direct Seeded Rice) needs less water requirement

↳ directly sown, compared to transplanting which consumes most water

↳ problems * 5-7% less yield

↳ advantages * has 12-17% water saving

↳ also energy savings

↳ promote following wheat crop yield

What to do?

↳ promote DSR through SAV. State. Agri. Universities.

↳ Promote Irrigation scheduling - only when crop needs water

↳ Alternate wetting & drying - also reduce green house gas emission

∴ promoting DSR is a solution for Rice of future