

① The water accounting method should be introduced in all canal command areas to improve the water use efficiency in the country. Explain.

* India has one of the largest canal irrigated area in the world. But, there is ~~recent~~ issue of decline / slowdown in the area.
critics comment - 'throwing good money after the bad'.

Why such criticism?

Idea of
~ Irrigation started in idea from
1950's & 60's after independence.



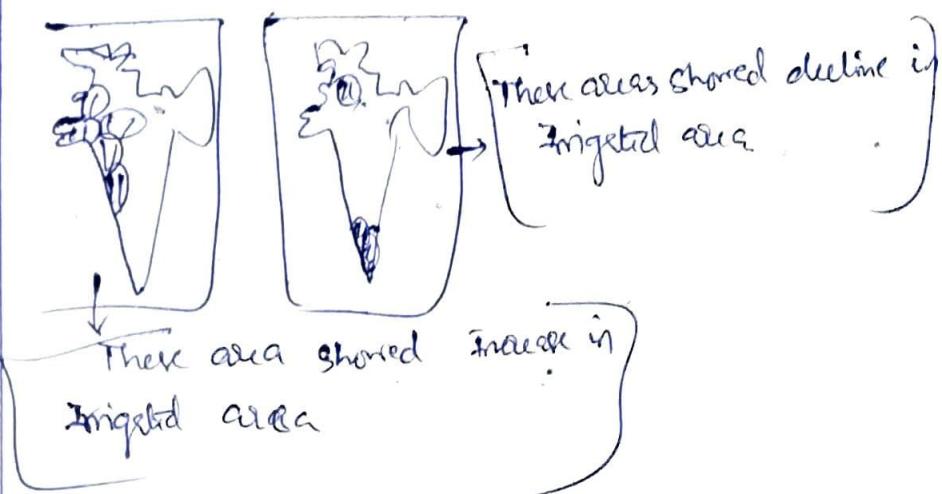
1st 5 year plan \Rightarrow 85% of investment went only
for major canal irrigation e.g. Bhakra Nangal
dam
This spirit was carried on till 11th FYP. of
total \approx 73% investment done on irrigation.
till 11th FYP

Effects.

Dams surged from 55 to \approx 5400.
(2018)
73 dam / year. Storage capacity 1st to 304 bn.
(ha)

1990-91 (After)

Irrigated area started to slowdown after 1990-91 but the area has increased since independence. The decline is not uniform.



Why is there decline in Area?

Data problem:

Huge difference between data released by MoAgric & CWC

canal irrigation scheme → the irrigation has to be used only for certain crops for certain type of areas.

But this notional cropping so pattern rarely followed

Government also hadn't released any gross irrigation area data

Growth factor

Increasing Economic growth, urban agglomeration.

e.g. water diversion from Naldhara Vastu dam to Pune city.

Water Intensive crop

Headstream farmers \rightarrow High water usage for paddy, sugarcane etc, leaves inadequate water to lower stream
e.g. World bank \rightarrow Sugarcane only 3% area (Meh) but $\frac{2}{3}$ rd water is consumed.

Investment

poor financial outflow, but it is yet to study whether 'throwing good money after bad' is really true.

water accounting method is the need of hour, with available data. One success story of Maharashtra WAM as increased water use efficiency. It not only increases efficiency, but also tells us the usage of water and sustainable use in future.