

Agri-Ed
Law

By Shaukat Ali Bha...

THE twin mena

Thoughtless excessive use of water for decades following the construction of various components of our vast irrigation network in the absence of an effective drainage system, seepage of water from irrigation channels and to a lesser extent from farms, and heavy monsoon rains have been responsible for rise in the underground water table. In 1932, water table was measured at 30 feet deep in Nawabshah, Sanghar, and Mirpurkhas. But now there are 5.2 million hectares in Sindh and 3.7 million hectares in the Punjab where water table ranges between 0-10 feet below ground surface in the month of October when water-logging is at its peak. Out of this, 4.1 million hectares in Sindh has watertable depth of 0-5 feet.

Evaporation ponds were also constructed for this purpose. However, while these ponds resolved the problem in the area of their construction, they had the potential of creating complication of their own through seepage. Further, while land in one part of the country was reclaimed, the double attack from waterlogging and salinity continued to affect other areas.

Moreover, agronomically suggested reclamation practices includes: (i) preparation of land with the desired implements; (ii) inclusion of leguminous crops, especially pulses on a regular basis as soil restoring crops in crop rotation; and (iii) application of farm yard manure (FYM) or green manure after every three years. But unfortunately, majority of growers in Sindh, financially constrained and ignorant as they are, instead of adopting these tips for the reclamation of saline and waterlogged soil preferred to switch over to heavy water feeder crops like rice, banana and sugarcane, which rendered more and more area unsuitable for cotton and orchard, particularly in the cotton growing districts of upper Sindh.

Some prudent growers have found ways to cope up with the situation and to use it for their advantage. One such grower is Ijaz Ahmad Phulpoto, a progressive grower of Khairpur. Within one year he has managed to reclaim over 100 acres of water-logged saline land, previously used for illegal cultivation of rice, by simply bringing it under jantar (green manure) followed by cultivation of berseem crop.

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The natural phenomena has significantly lowered the underground water table rendering vast tracts of slightly to moderately waterlogged lands suitable for cultivation of cotton instead of illegal growing of paddy, and making those lands reclaimable which are heavily waterlogged and which are chronic marginal lands rather waste lands (now completely dry).

Since majority of growers are poor and thus unable to install tubewells it is necessary that the government should give at least 50 per cent subsidy on tubewell installation.

Further, subsidised tubewell tariff should be approved for the drought-affected growers of Sindh as has been done in case of growers of Balochistan. Efforts should be made to implement the Chinese model of transforming saline alkali land under drought condition.