Creation of Village Boundary Based Basin Analysis Dr. R. Nagarajan

This is the map ID that means in the maps we have given some ID numbers 1, 2, 3. So that is as a parcel at a polygon type for a village and this polygon is connected to the village ID used by the Census Department and this is the village name which normally it is done and these are all some of the census information which you have collected is area number of houses and irrigated areas in this thing then non-irrigated areas like that forest cover.

So, now as a time series analysis as we how much of changes have taken place over a period we can attach the similar attributes collected from the revenue census information of 91, 81, 71 and 61 can be added and then whether the irrigated areas are grown our lesson down whether the forest areas have been grown or it has come down this type of time series analysis will be able to do it up and you can do this is authenticated information which everybody can do that.

So, when you look at it so there could be some variations between 2001 and 1991. So, W means that is a wealth with WE is the well with energy motors and tube-wells with energy motors then within the tank irrigation. There were three sources of irrigation here whereas here that the energy is missing that means from between 1991 and 2001 the energy used motors have come up in a big way so that means energy is used for the agriculture purpose hopefully and that means indirectly it is likely to affect the climate change same thing is comparison of irrigated areas which I was explaining is. Now it is shown here 71, how much it was then 81 how much it was then 91 how much it was then 2001 how much it was?

So this type of the tank will let us look at the tank thing here it is 184, here it has grown here it is marginally there is a growth between 1981 and 1991 whereas the same thing has reduced during 2001whereas people have gone for ground water exploitation groundwater by way of well-water as well as to build water.

Okay, that means there is a trend where the tank irrigation has come down whereas the variation has gone up that indicates the probability of a groundwater decline groundwater depletion is possible so this type of village-wise information can be taken and appended with the maps so that it can be analysed locally as well as can be analyzed on a large area-wise.