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total development...

Quadracci
SUSTAINABLE
ENGINEERING
LAB.

COLUMBIA WATER CENTER
THE EARTH INSTITUTE AT COLUMBIA UNIVERSITY

CLIMATE CHANGE:

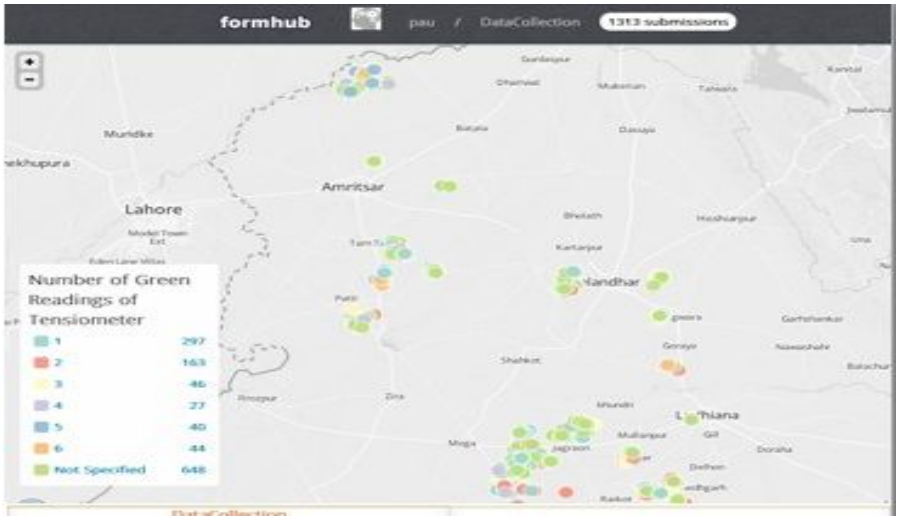
MANAGING WATER SERVICES



1) Sensor Network Deployment

Deployment: This would be used to monitor everyday activity in the field.

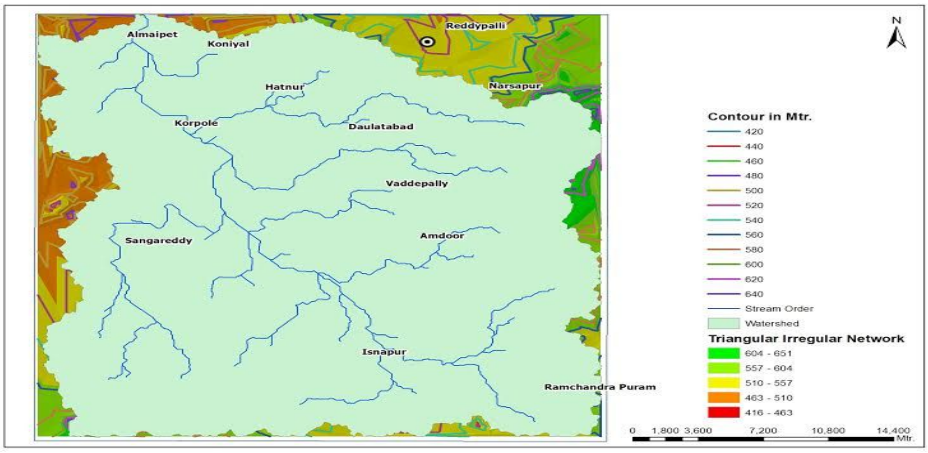
This would integrate VRS systems to inform about the conditions to the farmers.



2)Stream Flow Pattern

Farmer Ponds Based On Digital Elevation Model.

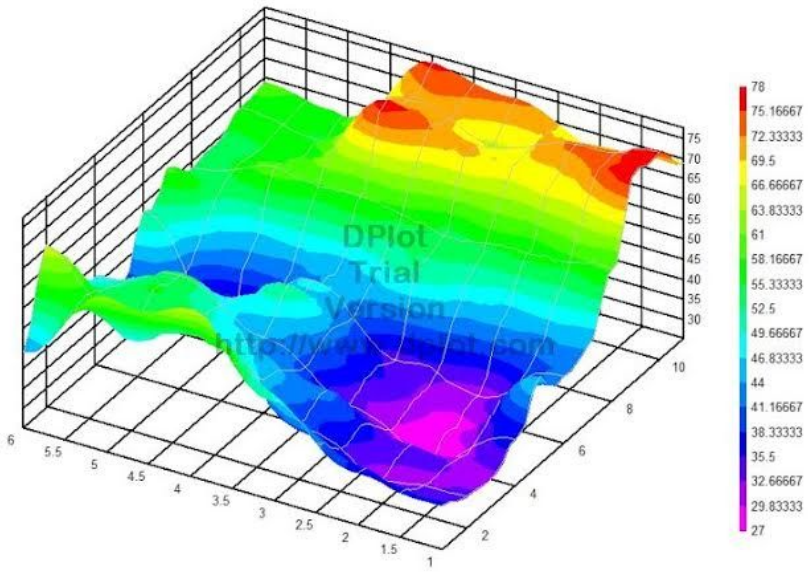
Since we have seen that this year there was a lot of flooding and lot of overflow. This model was used to develop farmer ponds in areas where there will be stream overflow. This ponds will be plastic covered in this region. This is to monitor the surface flow due to excessive rainfall. This is a buffer for pumping water in the smart irrigation part and can be used as storage for other seasons.



3) Construction of Check Dams

To Recharge The Ground Waters.

This would be measured by the groundwater sensors in the region.
The following site is being used to develop the check dams.



4) Weather Stations & Sensors

