

# ABOUT MUSSOORIE



'Queen of Hills'



Established in 1823 AD



Population: 30,118 (2011)



Major Water Source: 23 Springs



Supply: 7.76 MLD (Million Liters/Day)



Demand in Peak Tourist Season: 14.40 MLD

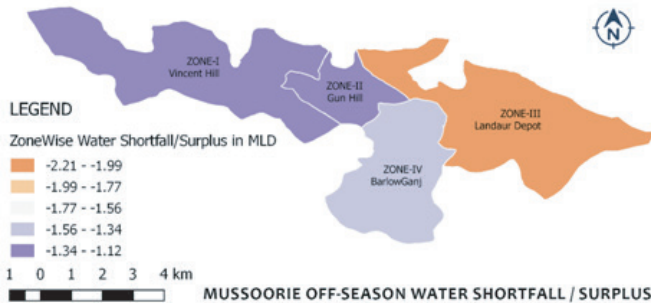


★ CAMPS (Climate Adaptive Water Management Practices & Strategies) provide solutions for Water Insecurity in urban areas based around climate adaptation.

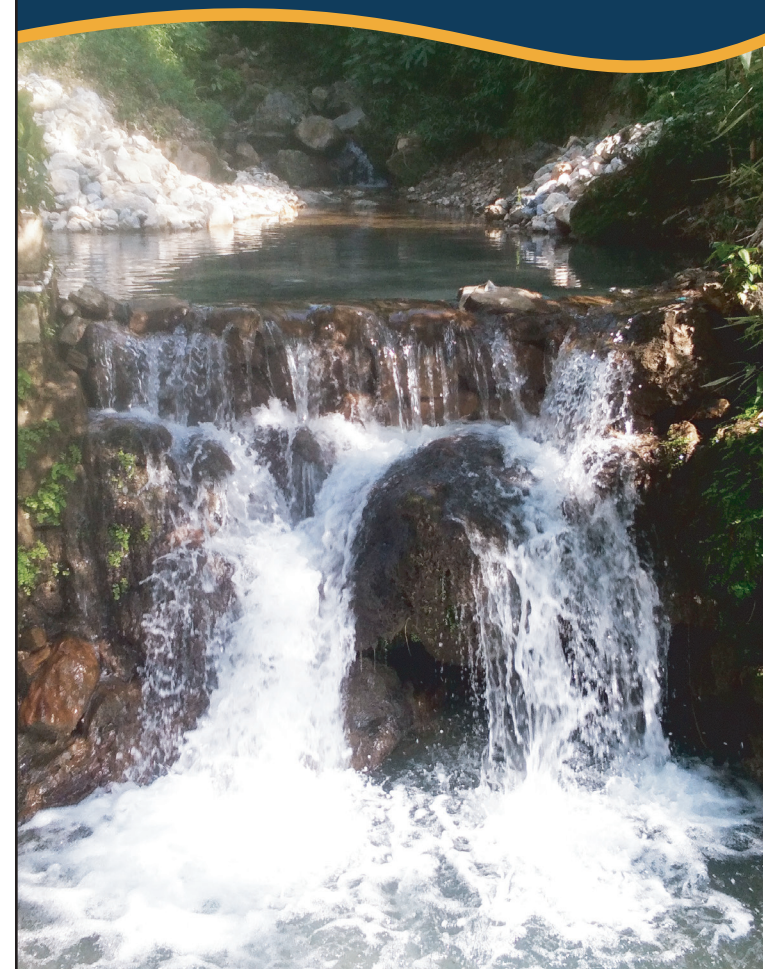
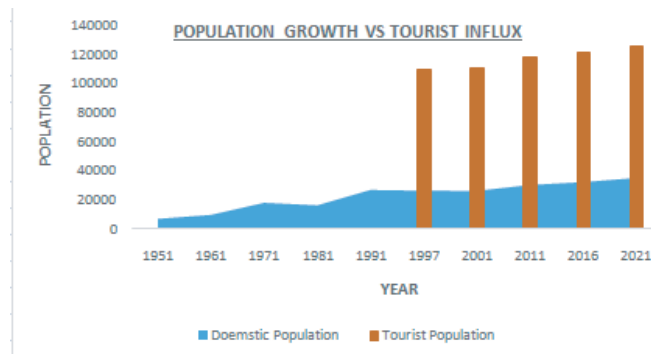
# ABOUT CAMPS

★ It includes improvement of critical water zones, city-scale water management planning and identification of policy barriers to enhance water security in urban contexts.

## WATER STRESSES



Increasing tourist influx has led to high water demand in the season. This has resulted in differential wards in the city during off-season and tourist season.



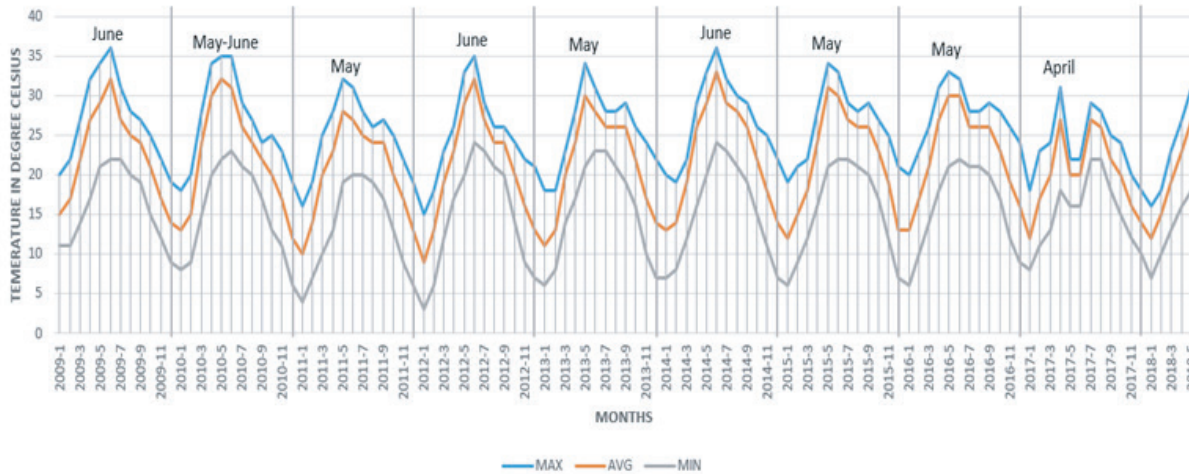
## Climate Adaptive Water Management Practices and Strategies (CAMPS)

Address: 201/1, Vasant Vihar, Dehradun - 248006  
 Info@cedarhimalaya.org · www.cedarhimalaya.org  
 + 91 - 135 - 2763403

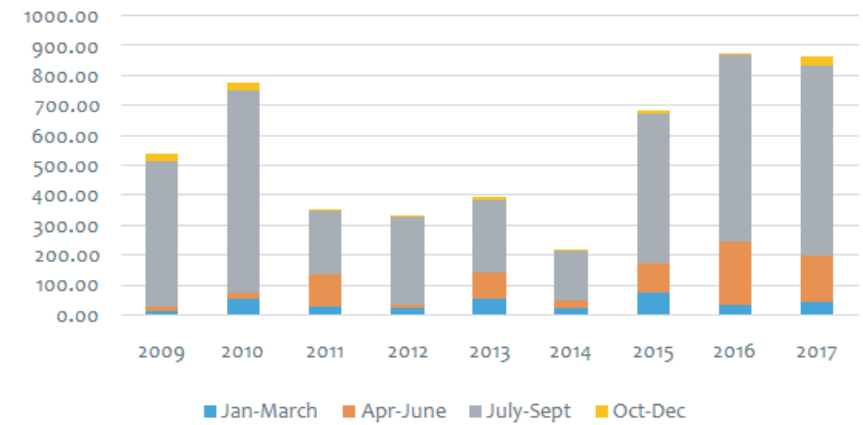


Tata Institute of Social Sciences

## Saesonal Variation in Temperature



## SEASONAL DISTRIBUTION & PERIODIC SHIFT IN ANNUAL PATTERN OF RAINFALL



## KEY ISSUES IDENTIFIED

- Changing climate pattern is observed, there is a shift in hottest months and seasonal rainfall.
- There has been an overall decline in water discharge in almost all the springs.
- Rapid urbanization has increased the surface run-off of rainwater.
- Supply gap in peak season: 6.73 MLD
- Supply gap in off-season: 0.03 MLD

## OPPORTUNITIES

- Protection of Critical Urban Water Zones which are responsible for feeding the springs.
- Adoption of Water Reduce, Reuse and Recycle practices.
- Storm Water Management for the city.
- Rain Water Harvesting (RWH) at public places and buildings.

## Government INITIATIVES

- Installation of pumping scheme to lift water from Yamuna River. It shall supply 20 MLD water and has a lifespan of 30 years.
- A 3 stage pumping system has been transformed into a single stage system.

## SOLUTIONS

### WHAT CAN BE DONE

- Installation of RWH systems at public places such as toilets and parks.
- Community RWH in Hotels, Institutes and residential Buildings.
- Bring awareness among Tourists and Residents through Posters and Products.
- Smart water management practices such as installing high-pressure valves in taps to reduce water use.

### POLICY SUGGESTIONS

- Incentivize rain water harvesting.
- Establish Water Data Center to monitor springs and weather.
- Implement metering and differential water pricing system to curtail over-consumption.

