State Profile

Ground Water Scenario of Karnataka

Area (Sq.km)	1,91,791
Rainfall (mm)	1779
Total Districts / Talukas	30 Districts

Hydrogeology

The State is covered by peninsular gneisses, granites, schists, & basalts along with sedimentaries of Kaldagi and Bhima groups. The recent alluvium is restricted to coastal areas and stream courses. The water bearing and yield characteristics in hard rock are primarily controlled by the extent of weathering and fracturing. In limestone areas, solution cavities impart secondary porosity. The yield of tube wells tapping hard rocks is as high as 50 m3/hr. The tube wells in sedimentaries can yield up to 15 m3/hr.

Dynamic Ground Water Resources (2011)	47.00.0014	
Annual Replenishable Ground water Resource	17.03 BCM	
Net Annual Ground Water Availability	14.81 BCM	
Annual Ground Water Draft	9.41 BCM	
Stage of Ground Water Development	64 %	
Ground Water Development & Management		
Over Exploited	63 Talukas	
Critical	21Talukas	
Semi- critical	34 Talukas	
Artificial Recharge to Ground Water (AR)	Area identified for AR: 74007 sq km	
	 Volume of water to be harnessed: 11367 MCM 	
	 Volume of water to be harnessed through RTRWH: 167.33 MCM 	
	Feasible AR structures:	
	 Sub surface dyke- 271 Percolation Tank- 10166 Check dams - 59853 Point Recharge structures – 2695 RTRWH (H) - 665000 RTRWH (G& I) - 35000 	

Contaminants	Districts affected (in part)
Salinity (EC > 3000 μS/cm at 25 ° C)	Bagalkote, Bangalore-Rural, Bangalore-Urban, Belgaum, Bellary, Bijapur, Chamarajnagara, Chikballapur, Chikmagalur, Chitradurga, Dakshina Kannada, Davanagere, Dharwad, Gadag, Gulburga, Hassan, Haveri, Kodagu/ Coorg, Kolar, Koppal, Mandya, Mysore, Raichur, Ramanagara, Shimoga, Tumkur, Udupi, Uttara Kannada, Yadgir
Fluoride (>1.5 mg/l)	Bagalkot, Bangalore Rural, Belgaum, Bellary, Bidar, Bijapur, Chamarajanagar, Chikkaballapur, Chikmagalur, Chitradurga, Davanagere, Dharwad, Gadag, Gulburga, Hassan, Haveri, Kolar, Koppal, Mandya, Mysore, Raichur, Shimoga,Tumkur, U.Kannada
Iron (>1.0 mg/l)	Bagalkot, Bangalore Rural,, Belgaum, Bellary, Bidar, Bijapur, Chikmagalur, Chitradurga, Dakshina Kannada, Davanagere, Gulburga, Hassan, Haveri, Kodagu, Kolar, Koppal, Mysore,Ramanagara, Raichur, Shimoga, Tumkur, Udupi, Uttar Kannada, Yadgir
Nitrate (>45 mg/l)	Bagalkot, , Bangalore Urban, Bangalore Rural, Belgaum, Bellary, Bidar, Bijapur, Chamrajnagar, Chikkaballapur,Chikmagalur, Chitradurga,Dakshina Kannada, Davanagere, Dharwad, Gadag, Gulburga, Hassan, Haveri, Kodagu/Coorg, Kolar, Koppal, Mandya, Mysore, Ramnagara, Raichur. Shimoga, Tumkur, Udupi, Uttar Kannada
Arsenic(above 0.05 mg/l)	Raichur and Yadgir district

Central Ground Water Authority

Areas Notified for Regulation of ground water development	 Badami Taluk, District Bagalkote
	 Bagalkote(P) Taluk, District Bagalkote
	 Anekal Taluk, District Bangalore (U)
	 Bangalore (N) Taluk, District Bangalore (U)
	 Bangalore (S) Taluk, District Bangalore (U)
	 Devanhalli Taluk, District Bangalore(R)
	 Dod Ballapur Taluk, District Bangalore(R)
	 Hoskote Taluk, District Bangalore(R)
	 Nelamangala(P) Taluk, District Bangalore(R)
	 Ramdurg Taluk, District Belgaum
	 Raybag(P) Taluk, District Belgaum
	 Gadag(NC) Taluk, District Gadag
	 Bangarapet Taluk, District Kolar
	 Chik Ballapur Taluk, District Chikballapur
	 Chintamani Taluk, District Chikballapur
	 Gauribidanur Taluk, District Chikballapur
	 Gudibanda Taluk, District Chikballapur
	 Malur Taluk, District Kolar
	 Mulbagal Taluk, District Kolar
	 Sidlaghhatta Taluk, District Chikballapur
	 Koratagere(P) Taluk, District Tumkur
	 Madhugiri(P) Taluk, District Tumkur