

State Profile

Ground Water Scenario of Haryana

Area (Sq.km)	44,212
Rainfall (mm)	615
Total Districts / Blocks	21 Districts

Hydrogeology

Based on yield potential characteristics of aquifers, the State can be divided into three zones. The first one comprises of 26,090 sq.km in parts of Sirsa, Hissar, Bhiwani, Mahendergarh & Jind Districts, where tubewells can yield 50 m³/hr. The second one falls in parts of Hissar, Kurukshetra, Karnal, Bhiwani and Gurgaon Districts, covering an area of 7100 sq.km tubewells in this zone, can yield between 50-150m³/hr. The third one extends by 9200 sq.km in parts of Ambala, Kurukshetra, Karnal and Sonapat Districts, where the yield varies between 150-200 m³/hr. An area of 1660 sq.km in parts of Gurgaon, Bhiwani and Mahendergarh Districts is underlain by consolidated formations, where the yield prospects of aquifers are limited.

Dynamic Ground Water Resources (2011)	
Annual Replenishable Ground water Resource	10.78 BCM
Net Annual Ground Water Availability	9.79 BCM
Annual Ground Water Draft	13.05 BCM
Stage of Ground Water Development	133 %
Ground Water Development & Management	
Over Exploited	71 Blocks
Critical	15 Blocks
Semi- critical	7 Blocks
Artificial Recharge to Ground Water (AR)	<ul style="list-style-type: none"> ▪ Area identified for AR: 37029 sq. km. ▪ Volume of water to be harnessed: 679.26 MCM ▪ Volume of water to be harnessed through RTRWH: 187 MCM ▪ Feasible AR structures: <ul style="list-style-type: none"> ❖ Check Dams – 335 ❖ Recharge shaft – 44392 ❖ Recharge sewage- 100 ❖ RTRWH (H) – 300000 ❖ RTRWH (G& I)- 75000
Ground Water Quality Problems	
Contaminants	Districts affected (in part)
Salinity (EC > 3000µS/cm at 250C)	Bhiwani, Faridabad, Gurgaon, Hissar, Jhajjar, Jind, Kaithal, Mahendergarh, Palwal, Rohtak, Sonapat and Sirsa
Fluoride (>1.5mg/l)	Bhiwani, Faridabad, Gurgaon, Hissar, Jind, Kaithal, Panipat, Rewari, Sirsa and Sonapat
Arsenic (above 0.05mg/l)	Ambala, Fatehabad, Karnal, Sonapat, Mewat
Iron (>1.0mg/l)	Ambala, Bhiwani, Faridabad, Fatehabad, Gurgaon, Hissar, Jhajjar, Jind, Sonapat, Sirsa and Yamunanagar,
Nitrate (>45 mg/l)	Bhiwani, Faridabad, Gurgaon, Hissar, Jhajjar, Jind, Kaithal, Mahendergarh, Palwal, Sirsa and Sonapat
Heavy metals:	
Lead (above 0.01 mg/l)	Lead: Bhiwani, Faridabad, Fatehabad, Gurgaon, Hissar, Jhajjar, Jind, Kaithal, Karnal, Mahendergarh, Panchkula, Rewari, Rohtak, Sonapat and Sirsa
Cadmium (Above 0.003mg/l)	Cadmium: Gurgaon, Jhajjar, Jind, Rohtak

Central Ground Water Authority

<p>Areas Notified for Regulation of ground water development</p>	<ul style="list-style-type: none">▪ Municipal Corporation of Faridabad and Ballabgarh.▪ Narnaul Block of Mahendragarh District▪ Shahbad Block of Kurukshetra District▪ Nangal Chowdhary Block of Mahendragarh District▪ Samalkha Block of Panipat District▪ Karnal Block of Karnal District▪ Khol Block of Rewari District.▪ Entire Gurgaon District▪ Badra Block of Bhiwani District▪ Ladwa Block of Kurukshetra District▪ Pehowa Block of Kurukshetra District▪ Tohana Block of Fatehabad District▪ Gulha Block of Kaithal District▪ Bapoli Block of Panipat District▪ Rania Block of Sirsa District▪ Rajaund Block of Kaithal District▪ Ellenabad Block of Sirsa District.
---	---