

Ground Water Resources Availability, Utilization And Stage Of Development

JHARKHAND(March 2009) (Ham)

S. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Allocation For Domestic & Industrial Water Uses upto 2025	Net Ground Water Availability for Future Irrigation use	Stage of Ground Water Development (%)
		Monsoon Season		Non Monsoon Season		Total			Irrigation	Domestic & Industrial Water Supply	Total			
		Recharge from Rainfall	Recharge From Other Sources	Recharge from Rainfall	Recharge From Other Sources									
1	Bokaro	21605	158	4480	1356	27599	2190	25408	5204	2752	7956	4121	16083	31
2	Chatra	21664	216	3488	1922	27290	2527	24762	7363	1299	8662	2197	15202	35
3	Deoghar	16361	53	6348	1198	23960	2396	21564	4550	2605	7155	2605	14408	33
4	Dhanbad	11189	205	2666	885	14945	1453	13492	3232	3807	7039	5780	4480	52
5	Dumka	19935	2314	6301	1506	30056	3006	27051	5578	1804	7382	2455	19018	27
6	E-Singhbhum	22920	146	6114	683	29863	2708	27156	2346	3287	5633	4966	19844	21
7	Garhwa	25880	1555	4041	2436	33912	2839	31073	9257	1710	10968	2510	19306	35
8	Giridih	28155	81	6429	2295	36960	3696	33264	8859	3109	11968	5099	19305	36
9	Godda	9992	1151	3809	1018	15971	1597	14374	3847	1714	5561	2128	8399	39
10	Gumla	31233	905	8154	286	40578	4058	36520	8170	1370	9541	1670	26680	26
11	Hazaribagh	24259	703	5999	2479	33438	3250	30188	9480	2264	11744	3392	17316	39
12	Jamtara	13021	14	3429	94	16559	1656	14903	2936	1055	3991	1293	10674	27
13	Khunti	10029	744	4281	901	15955	1596	14360	3350	709	4059	963	10047	28
14	Koderma	6410	3	1371	433	8217	610	7607	1639	839	2478	1342	4627	33
15	Latehar	22688	222	3362	1508	27779	2523	25256	5762	924	6686	1288	18206	26
16	Lohardaga	7294	356	1934	834	10418	1042	9376	3143	575	3718	812	5421	40
17	Pakur	10304	279	3314	197	14094	1409	12685	582	1131	1714	1582	10521	14
18	Palamu	32841	1542	4772	318	39472	3392	36080	9182	2510	11692	3761	23137	32
19	Ramgarh	8697	44	1822	760	11323	965	10358	2908	1135	4043	1633	5816	39
20	Ranchi	26617	996	7734	2625	37973	2900	35072	10036	3919	13954	5080	19957	40
21	Sahebganj	9375	196	2954	357	12882	1268	11614	1124	1483	2607	1976	8514	22
22	Saraikela	15537	617	4329	277	20759	1900	18859	912	1298	2210	1731	16217	12
23	Simdega	22444	276	5407	1655	29783	2825	26958	6358	839	7197	1118	19482	27
24	W-Singhbhum	27155	887	8387	357	36786	3678	33108	964	1921	2885	2562	29582	9
	State Total (ham)	445603	13662	110922	26381	596569	55482	541087	116782	44059	160841	62062	362243	30
	State Total (bcm)	4.46	0.14	1.11	0.26	5.96	0.55	5.41	1.17	0.44	1.61	0.62	3.62	30

As per Block-wise Dynamic Ground Water Resource Estimation, till 2009 the following blocks of Jharkhand have fallen under over exploited, , critical and semi critical stage: -

Sl.No.	Block	District	Stage of Development	Categorisation
1	Chas	Bokaro	75.52%	Semi-Critical
2	Ratu	Ranchi	72.49%	Semi-Critical
3	Dhanbad	Dhanbad	92.15%	Critical
4	Ramgarh	Ramgarh	94.29%	Critical
5	Jharia	Dhanbad	105.63%	Over-Exploited
6	Jamshedpur Sadar	East Singhbhum	131.39%	Over-Exploited
7	Godda	Godda	117.39%	Over-Exploited
8	kanke	Ranchi	112.4%	Over-Exploited

Over-Exploitation of Ground Water has rendered several areas devoid of ground water in peak summer, resulting in drying up of dug wells and Tube wells. Excessive withdrawal of ground water by industrial units has created adverse effect on its quantity also.

Ground Water Directorate has framed Ground Water Legislation for the state of Jharkhand, in the light of existing legislation of other states. The legislation is awaiting its approval and enactment. After enactment of Ground Water Legislation, the use of ground water will be regulated and ground water reserve will be improved through practice of Rain Water Harvesting, to be made mandatory in ground water stressed areas.