

ANNEXURE – I

**STATE-WISE GROUND WATER RESOURCES
AVAILABILITY, UTILIZATION AND STAGE OF
DEVELOPMENT, INDIA
(AS ON 31st MARCH 2011)**

**STATE-WISE GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
INDIA**

Sl. No.	States / Union Territories	Annual Replenishable Ground Water Resource						Natural Discharge during non-monsoon season	Net Annual Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial uses upto 2025	Ground Water Availability for future irrigation	Stage of Ground Water Development (%)					
		Monsoon Season		Non-monsoon Season		Total				Irrigation	Domestic and industrial uses	Total								
		Recharge from rainfall	Recharge from other sources	Recharge from rainfall	Recharge from other sources															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						
States																				
1	Andhra Pradesh	17.25	6.29	5.38	6.97	35.89	3.32	32.57	13.18	1.33	14.51	2.81	16.97	45						
2	Arunachal Pradesh	3.36	0.00	1.15	0.00	4.51	0.45	4.06	0.002	0.001	0.003	0.01	4.05	0.08						
3	Assam	17.90	1.64	8.64	0.34	28.52	2.73	25.79	2.86	0.64	3.49	0.78	22.14	14						
4	Bihar	19.54	3.95	3.40	2.44	29.34	2.47	26.86	10.25	1.70	11.95	2.51	14.10	44						
5	Chhattisgarh	9.90	0.70	0.87	0.94	12.42	0.79	11.63	3.43	0.62	4.05	0.76	7.44	35						
6	Delhi	0.11	0.10	0.02	0.08	0.31	0.02	0.29	0.14	0.25	0.39	0.26	0.01	137						
7	Goa	0.16	0.008	0.01	0.07	0.24	0.10	0.145	0.01	0.03	0.04	0.04	0.10	28						
8	Gujarat	12.79	2.55	0.00	3.23	18.57	0.98	17.59	10.75	1.11	11.86	1.48	5.87	67						
9	Haryana	3.65	2.77	1.01	3.35	10.78	0.99	9.79	12.35	0.71	13.05	0.76	-3.31	133						
10	Himachal Pradesh	0.39	0.02	0.10	0.05	0.56	0.03	0.53	0.25	0.13	0.38	0.13	0.15	71						
11	Jammu & Kashmir	1.45	2.06	0.36	0.37	4.25	0.43	3.83	0.20	0.61	0.81	0.76	2.87	21						
12	Jharkhand	4.75	0.13	1.06	0.36	6.31	0.55	5.76	1.31	0.55	1.86	0.76	3.69	32						
13	Karnataka	6.81	4.17	2.67	3.38	17.03	2.22	14.81	8.59	0.82	9.41	1.06	6.53	64						
14	Kerala	4.85	0.06	0.63	1.15	6.69	0.61	6.07	1.30	1.53	2.84	1.71	3.07	47						
15	Madhya Pradesh	28.22	1.17	0.79	4.87	35.04	1.75	33.29	17.48	1.35	18.83	1.91	13.90	57						
16	Maharashtra	22.36	1.68	1.84	8.07	33.95	1.80	32.15	16.15	1.03	17.18	1.97	14.48	53						
17	Manipur	0.23	0.01	0.19	0.01	0.44	0.04	0.40	0.0033	0.0007	0.004	0.05	0.35	1.02						
18	Meghalaya	1.68	0.03	0.07	0.005	1.78	0.18	1.60	0.0015	0.0002	0.0017	0.232	1.37	0.08						
19	Mizoram	0.0257	Negligible	0.005	Negligible	0.030	0.003	0.027	0.00	0.001	0.001	0.002	0.025	3.52						
20	Nagaland	0.40	Negligible	0.21	Negligible	0.62	0.062	0.55	0.00	0.03	0.03	0.04	0.51	6.13						
21	Odisha	11.29	2.53	1.33	2.63	17.78	1.09	16.69	3.81	0.92	4.73	1.24	11.64	28						
22	Punjab	5.82	10.64	1.33	4.74	22.53	2.21	20.32	34.17	0.71	34.88	0.98	-14.83	172						
23	Rajasthan	8.78	0.68	0.28	2.20	11.94	1.11	10.83	13.13	1.71	14.84	1.89	0.91	137						
24	Sikkim	-	-	-	-	-	-	0.044	0.003	0.009	0.011	0.01	0.031	26						
25	Tamil Nadu	7.38	10.28	1.69	2.18	21.53	2.15	19.38	13.17	1.76	14.93	1.82	4.39	77						
26	Tripara	1.248	0.000	0.740	0.598	2.587	0.229	2.358	0.093	0.069	0.163	0.200	2.065	7						
27	Uttar Pradesh	42.13	11.57	5.15	18.34	77.19	5.53	71.66	48.74	4.04	52.78	6.55	19.64	74						
28	Uttarakhand	1.09	0.26	0.20	0.49	2.04	0.04	2.00	1.10	0.03	1.13	0.09	0.80	57						
29	West Bengal	18.53	5.72	1.42	3.58	29.25	2.67	26.58	9.72	0.97	10.69	1.48	15.38	40						
Total States		252.11	68.99	40.56	70.44	432.11	34.55	397.60	222.21	22.66	244.85	32.28	154.34	62						
Union Territories																				
1	Andaman & Nicobar	0.262	Nil	0.046	Nil	0.308	0.022	0.286	0.001	0.012	0.013	0.014	0.272	4.44						
2	Chandigarh	0.015	0.001	0.005	0.001	0.022	0.002	0.019	0.000	0.000	0.000	0.000	0.000	0						
3	Dadara & Nagar Haveli	0.043	0.003	0.009	0.007	0.062	0.003	0.059	0.007	0.006	0.013	0.010	0.042	22						
4	Daman & Diu	0.014	0.002	0.000	0.002	0.018	0.001	0.017	0.014	0.002	0.016	0.003	0.000	97						
5	Lakshadweep	0.000	0.000	0.000	0.000	0.011	0.007	0.0035	0.000	0.0023	0.0023	0.000	0.000	67						
6	Puducherry	0.089	0.060	0.008	0.032	0.189	0.019	0.170	0.124	0.029	0.153	0.032	0.057	90						
Total Uts		0.42	0.07	0.07	0.04	0.61	0.05	0.56	0.15	0.05	0.20	0.06	0.37	36						
Grand Total		252.53	69.06	40.63	70.48	432.72	34.60	398.16	222.36	22.71	245.05	32.34	154.71	62						

ANNEXURE – II

DISTRICT-WISE GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT (AS ON 31st MARCH 2011)

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
ANDHRA PRADESH**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	Guntur	109985	18487	22881	19825	171178	15819	155359	46677	8552	55229	10461	98221	36		
2	Vizianagaram	69126	18403	43050	28717	159296	15140	144156	104597	9585	114182	13376	38123	79		
3	Visakhapatnam	138586	13441	10345	24058	186430	18064	168366	103764	16033	119797	18852	47361	71		
4	East Godavari	60450	38551	36600	25814	161415	14536	146879	32646	4451	37097	13177	101056	25		
5	Srikakulam	48619	103483	31345	16859	200306	19729	180577	28288	6642	34930	14624	137823	19		
6	Nellore	50584	16543	40086	16432	123645	8284	115361	62328	6105	68433	8804	44229	59		
7	Kurnool	95298	27618	19069	53391	195376	18097	177279	108666	4620	113286	11415	60269	64		
8	Prakasam	143369	12893	38140	26725	221127	18738	202389	51976	6206	58182	10983	139986	29		
9	Khammam	48537	44546	22447	66356	181886	16917	164969	49627	9530	59157	11884	105226	36		
10	Adilabad	58378	30103	29158	32876	150515	12790	137725	35086	4144	39230	13067	89853	28		
11	Krishna	72443	15561	18917	24741	131662	12994	118668	95973	3066	99039	7603	24967	83		
12	West Godavari	95154	29351	25467	31327	181299	17958	163341	69040	4502	73542	12666	81635	45		
13	Mehaboobnagar	90352	47433	28710	44651	211146	20217	190929	103380	10197	113577	11549	76000	59		
14	Kadapa	150029	48098	734	73610	272471	25583	246888	62575	5080	67655	44026	140287	27		
15	Nalgonda	64576	22336	15913	30200	133025	12658	120367	81284	1934	83218	6679	34153	69		
16	Warangal	60835	20303	26994	70492	178624	17210	161414	43804	2124	45928	7795	112453	28		
17	Karimnagar	43753	5789	12695	8870	71107	6761	64346	33303	11954	45257	16234	18452	70		
18	Nizamabad	44230	28943	26204	10774	110151	9938	100213	20871	4404	25275	9475	69867	25		
19	Rangareddy	68026	5484	13207	5739	92456	7972	84484	14310	4287	18597	11421	58753	22		
20	Chittoor	42054	22125	27903	7372	99454	9407	90047	16184	838	17022	6650	67213	19		
21	Anantapur	116570	17391	26082	33863	193906	18138	175768	100739	8159	108898	14703	62290	62		
22	Medak	53946	42053	22462	43810	162271	15071	147200	52859	565	53424	6003	88338	36		
State total (ham)		1724900	628935	538409	696502	3588746	332021	3256725	1317977	132978	1450955	281447	1696555	45		
StateTotal (bcm)		17.25	6.29	5.38	6.97	35.89	3.32	32.57	13.18	1.33	14.51	2.81	16.97	45		

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
ARUNACHAL PRADESH**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	Tirap	8718	0	2283	0	11000	1100	9900	3	0	3	43	9855	0.02828		
2	Changlang	20988	18	6996	27	28029	2803	25226	26		26	59	25142	0.10109		
3	Lohit	143000	0	52360	0	195360	19536	175824	5		5	101	175717	0.00301		
4	Anjaw	0	0	0	0	0	0	0	0	0	0	0	0	0.00000		
5	Dibang valley	0	0	0	0	0	0	0	0	0	0	0	0	0.00000		
6	Lower Dibang Valley	70488	0	30624	0	101112	10111	91001	34		34	104	90864	0.03681		
7	East Siang	60078	8	14049	12	74147	7415	66732	84	44	128	45	66603	0.19196		
8	West Siang	4878	1	1220	1	6099	610	5489	0	0	0	18	5471	0.00000		
9	Upper Siang	0	0	0	0	0	0	0	0	0	0	0	0	0.00000		
10	East Kameng	13338	0	3025	0	16363	1636	14726	15		15	71	14640	0.10186		
11	West Kameng	1820	0	530	0	2351	235	2116	0	0	0	19	2097	0.00000		
12	Lower Subansiri	1761	0	803	0	2564	256	2307	5		5	91	2211	0.21669		
13	Upper Subansiri	228	0	105	0	333	33	299	0	0	0	0	299	0.00000		
14	Papum Pare	10781	0	2587	0	13368	1337	12031	58	56	114	73	11900	0.94339		
15	Tawang	0	0	0	0	0	0	0	0	0	0	0	0	0.00000		
16	Kurung Kumey	0	0	0	0	0	0	0	0	0	0	0	0	0.00000		
State total (ham)		336077	27	114581	40	450724	45072	405652	229	100	329	624	404798	0.08		
StateTotal (bcm)		3.36	0.0002675	1.15	0.0004	4.51	0.45	4.06	0.002	0.001	0.003	0.01	4.05	0.08		

Note: 1.Assessment carried out by CGWB in absence of active participation of State Govt

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
ASSAM**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	Barpeta	59201	20542	7068	4417	91228	9123	82105	36041	3410	39451	4509	41555	48		
2	Bongaigaon	59709	4790	24706	1206	90411	9041	81370	13280	1494	14774	1903	66187	18		
3	Cachar	52071	9	35195	7	87282	8728	78554	11	3578	3589	4547	73996	5		
4	Darrang	59693	7170	22503	1875	91241	9124	82117	19721	1817	21538	2357	60039	26		
5	Dibrugarh	92018	5670	57274	1367	156329	15633	140696	14029	2737	16766	3108	123559	12		
6	Dhemaji	113890	1507	69337	390	185124	18512	166612	4142	1380	5522	1805	160665	3		
7	Dhubri	79158	17269	25660	4327	126414	12641	113773	47935	3940	51875	5407	60431	46		
8	Golaghat	94386	1885	43985	478	140734	14073	126661	5214	2135	7349	2473	118974	6		
9	Goalpara	80767	5240	27798	1323	115128	11513	103615	14512	2057	16569	2737	86366	16		
10	Hailakandi	15423	3	10860	3	26289	2629	23660	0	1323	1323	1757	21903	6		
11	Jorhat	95588	2325	49493	592	147998	14800	133198	6425	2259	8684	2457	124316	7		
12	Kamrup	87173	8952	33386	2297	131808	13181	118627	24720	3060	27780	3735	90172	23		
13	Karbi Anglong	23477	2398	11595	359	37829	3783	34046	104	1959	2063	2477	31465	6		
14	Kokrajhar	109550	3980	45329	726	159585	15959	143626	4008	1775	5783	1888	137730	4		
15	Karimganj	28446	66	18727	30	47269	4727	42542	138	2453	2591	3212	39192	6		
16	Lakhimpur	80114	1360	48773	350	130597	13060	117537	3749	2096	5845	2611	111177	5		
17	Morigaon	47311	5260	19046	1320	72937	7294	65643	14593	1924	16517	2621	48429	25		
18	Nagaon	109601	33029	44122	5942	192694	19269	173425	33755	5751	39506	7598	132072	23		
19	N.C. Hills	2602	1	1192	1	3796	380	3416	0	451	451	510	2906	13		
20	Nalbari	20983	4449	11953	1122	38507	3851	34656	12327	1558	13885	1795	20534	40		
21	Sibsagar	98417	2590	41461	657	143125	14313	128812	7163	2321	9484	2595	119054	7		
22	Sonitpur	113469	10385	71710	1799	197363	19736	177627	6585	3880	10465	4741	166301	6		
23	Tinsukia	100609	2788	63520	711	167628	8381	159247	7700	2725	10425	3190	148357	7		
24	Baksa	41724	8256	23769	1060	74809	7481	67328	1396	1886	3282	2206	63726	5		
25	Kamrup Metro	17171	674	6576	168	24589	2459	22130	1872	2999	4871	3246	17012	22		
26	Udalguri	38990	12264	20355	1670	73279	3664	69615	4117	1660	5777	1889	63609	8		
27	Chirang	68344	831	28279	208	97662	9766	87896	2308	967	3275	1116	84472	4		
	State Total (ham)	1789885	163693	863672	34405	2851655	273121	2578534	285845	63595	349440	78490	2214199	14		
	State Total (bcm)	17.90	1.64	8.64	0.34	28.52	2.73	25.79	2.86	0.64	3.49	0.78	22.14	14		

BIHAR

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	Araria	61913	8639	16078	2880	89510	8691	80819	22432	4786	27218	6707	51681	34		
2	Arwal	11679	6866	1978	2560	23083	1846	21237	9491	1096	10587	1639	10107	50		
3	Aurangabad	75591	13610	9315	4634	103150	8779	94371	18082	4264	22346	6464	69825	24		
4	Banka	29344	9514	6732	1717	47307	3908	43399	12988	3167	16155	4333	26078	37		
5	Begusarai	49227	4520	7198	6415	67360	6736	60624	33069	4745	37813	7611	19944	62		
6	Bhabhua	56812	12944	11757	5303	86816	7380	79436	23281	2496	25777	4005	52150	32		
7	Bhagalpur	59009	3935	11795	2465	77204	6605	70599	18397	5443	23840	7665	44537	34		
8	Bhojpur	47943	18596	7308	12049	85896	6601	79295	30706	4587	35293	6308	42281	45		
9	Buxar	33156	18053	4869	9031	65109	5643	59466	18463	2655	21118	4100	36904	36		
10	Darbhanga	48712	4959	7548	3234	64452	4047	60405	23710	7631	31342	12327	24367	52		
11	E.Champaran	80152	27743	14626	19072	141593	12381	129212	46748	7304	54053	11754	70709	42		
12	Gaya	85811	14749	12210	3848	116618	11285	105333	43910	8183	52093	12350	49073	49		
13	Gopalganj	37083	13954	6885	10732	68654	3985	64669	33480	4326	37806	5993	25196	58		
14	Jamui	26832	7781	6709	2292	43614	3303	40311	12689	2913	15602	4452	23170	39		
15	Jehanabad	22059	6767	2897	1487	33210	3123	30087	17481	1931	19412	2801	9805	65		
16	Katihar	68092	9394	15793	5868	99148	9915	89233	44202	4685	48886	7361	37670	55		
17	Khagaria	47326	1505	6138	4739	59709	5547	54162	22164	2566	24730	3959	28039	46		
18	Kishanganj	60420	2474	14676	3059	80628	8063	72566	17714	2699	20413	4015	50837	28		
19	Lakhisarai	21513	4726	3119	1792	31150	2805	28345	10436	1648	12084	2100	15809	43		
20	Madhepura	34865	9648	8510	5379	58401	5692	52709	26921	3205	30125	4801	20988	57		
21	Madhubani	82885	9372	15264	5096	112617	7433	105184	28833	6823	35655	10006	66345	34		
22	Munger	25062	4198	4019	1083	34362	3184	31178	7020	2130	9150	2888	21271	29		
23	Muzaffarpur	74039	18193	11172	15502	118906	9559	109347	53475	7511	60986	10732	45140	56		
24	Nalanda	51356	11721	7002	3355	73434	6735	66699	39149	4592	43741	5509	22041	66		
25	Nawada	45277	5336	6829	1976	59417	5456	53961	19550	3842	23392	5807	28604	43		
26	Patna	74832	16661	10352	7614	109459	10406	99053	45795	9121	54916	12836	40421	55		
27	Purnea	72301	1055	18860	4825	97041	5788	91253	36408	6167	42575	8528	46317	47		
28	Rohtas	85392	19758	10500	8058	123709	10503	113206	35158	4908	40066	7370	70678	35		
29	Saharsa	39548	7745	8139	5221	60653	4214	56439	18405	2963	21368	4895	33140	38		
30	Samastipur	69865	7631	10749	5620	93865	6348	87518	39257	6940	46197	10833	37428	53		
31	Saran	55052	12356	8105	10725	86237	5366	80871	39032	6310	45342	8923	32917	56		
32	Sheikhpura	12376	2898	2080	713	18067	1463	16604	7809	1126	8935	1390	7405	54		
33	Sheohar	13335	2286	1892	1041	18553	1228	17325	9237	1132	10369	1910	6178	60		
34	Sitamarhi	60962	7244	9711	5288	83206	5553	77653	29968	5521	35489	8662	39023	46		
35	Siwan	41092	19519	7263	15475	83349	8335	75014	38888	5118	44006	7402	28724	59		

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
BIHAR**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
36	Supaul	49221	12616	11809	8386	82032	7838	74195	23197	3456	26653	5391	45608	36		
37	Vaishali	49081	11578	7330	10038	78027	5867	72160	36052	5324	41375	7421	28687	57		
38	West Champaran	95151	24647	12402	25754	157955	15437	142518	31903	6285	38188	9275	101339	27		
State Total (ham)		1954363	395192	339621	244326	2933502	247048	2686454	1025497	169597	1195094	250522	1410435	44		
State Total (bcm)		19.54	3.95	3.40	2.44	29.34	2.47	26.86	10.25	1.70	11.95	2.51	14.10	44		

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
CHHATTISGARH**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	Baster	84820	846	11132	2299	99098	5960	93139	8510	3357	11867	4121	80508	13		
2	Bijapur	71408	95	10259	143	81905	4104	77801	775	560	1335	750	76276	2		
3	Bilaspur	53467	5666	0	5043	64175	3227	60948	24371	4526	28896	6048	30530	47		
4	Dantewara	52642	206	0	944	53793	3674	50119	1976	1167	3143	1468	46674	6		
5	Dhamtari	32926	7141	0	9874	49942	3779	46163	33230	2915	36145	3679	9254	78		
6	Durg	58283	8057	7609	15758	89707	7694	82013	48856	7752	56608	8890	24472	69		
7	Janjir Champa	24043	6680	3126	5395	39244	2474	36770	11940	3350	15291	4371	20459	42		
8	Jashpur	41188	559	5062	3474	50283	2865	47418	14607	1890	16497	2263	30548	35		
9	Kanker	78425	972	8588	2525	90510	5028	85481	16399	1641	18040	2104	66978	21		
10	Kawardha	24264	2195	3048	7083	36589	2308	34281	20872	1848	22720	2184	11224	66		
11	Korba	41581	832	4090	2604	49107	2822	46285	9664	4962	14626	5676	30945	32		
12	Koriya	47349	1271	3397	2247	54264	3310	50954	9994	1530	11524	1960	39000	23		
13	Mahasamund	53837	3199	1096	5282	63413	3600	59813	24228	4008	28237	5066	30518	47		
14	Narayanpur	25444	219	4255	375	30292	1533	28759	381	461	841	640	27738	3		
15	Raigarh	32212	2233	3764	4955	43164	2886	40278	17574	3698	21272	4616	18087	53		
16	Raipur	86803	21332	5614	12185	125934	10166	115768	40069	10033	50102	11065	64634	43		
17	Rajnandgaon	30000	5999	5007	5586	46592	3500	43092	21529	3384	24913	3478	18084	58		
18	Surguja	151224	2615	11115	8560	173514	9812	163702	38144	5235	43379	7509	118049	27		
State Total (ham)		989914	70118	87162	94332	1241526	78742	1162784	343119	62316	405436	75891	743979	35		
State Total (bcm)		9.90	0.70	0.87	0.94	12.42	0.79	11.63	3.43	0.62	4.05	0.76	7.44	35		

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
NCT DELHI**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	Darya Ganj	161	8	27	64	260	26	234	41	98	139	159	34	59		
2	Karol Bagh	31	2	5	6	45	4	40	10	45	55	63	0	137		
3	Pahar Ganj	59	3	10	8	80	8	72	0	98	98	124	0	137		
4	Gandhi Nagar	147	121	21	108	396	40	357	96	188	284	258	3	80		
5	Preet Vihar	175	147	25	289	635	32	604	691	775	1466	833	0	243		
6	Vivek Vihar	175	6	25	47	252	25	227	57	316	374	330	0	164		
7	Chanakay Puri	188	55	31	118	393	39	353	300	40	340	67	0	96		
8	Connaught Place	120	22	20	48	210	21	189	125	24	149	40	24	79		
9	Parliament Street	110	24	18	43	195	19	175	128	31	160	53	0	91		
10	Civil Lines	632	125	105	497	1359	136	1223	86	679	764	737	401	62		
11	Kotwali	65	54	11	12	143	14	128	53	98	151	109	0	118		
12	Sadar Bazar	44	1	7	2	54	5	49	0	53	53	60	0	110		
13	Seelam Pur	309	314	43	304	970	97	873	329	415	743	583	0	85		
14	Seema Puri	99	2	14	12	127	6	120	0	269	269	267	0	223		
15	Shahdara	42	12	6	98	158	16	143	0	287	287	285	0	201		
16	Model Town	203	66	25	234	529	53	476	70	777	848	767	0	178		
17	Narela	1967	1433	286	1429	5115	256	4859	1973	1749	3722	2014	872	77		
18	Saraswati Vihar	988	908	127	965	2987	299	2689	1239	3207	4446	3173	0	165		
19	Defence Colony	498	323	88	241	1150	115	1035	299	1046	1346	1092	0	130		
20	Hauz Khas	825	652	112	103	1692	169	1523	467	3099	3565	3235	0	234		
21	Kalkaji	800	649	105	184	1739	174	1565	1127	2001	3128	2072	0	200		
22	Delhi Cantonment	583	112	79	118	892	89	803	369	1475	1844	1439	0	230		
23	Najafgarh	1016	4258	156	1582	7012	351	6661	5787	2601	8388	2510	0	126		
24	Vasant Vihar	1311	216	178	143	1848	185	1663	304	2241	2545	2160	0	153		
25	Patel Nagar	264	86	43	674	1067	53	1014	74	1871	1945	1924	0	192		
26	Punjabi Bagh	295	117	25	939	1376	69	1307	381	833	1214	941	0	93		
27	Rajouri Garden	120	26	19	203	368	37	331	18	874	892	897	0	269		
State Total (ham)		11224	9743	1612	8472	31050	2338	28712	14025	25191	39215	26193	1333	137		
State Total (bcm)		0.11	0.10	0.02	0.08	0.31	0.02	0.29	0.14	0.25	0.39	0.26	0.01	137		

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
GOA**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	North Goa	9758	51	0	4448	14257	5703	8554	778	1750	2527	2166	5610	30		
2	South Goa	5913	786	644	2638	9982	3993	5989	228	1359	1586	1682	4079	26		
	State Total (ham)	15671	837	644	7086	24239	9696	14543	1005	3108	4114	3849	9689	28		
	State Total (bcm)	0.16	0.008	0.01	0.07	0.24	0.10	0.145	0.01	0.03	0.04	0.04	0.10	28		

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
GUJARAT**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	Ahmedabad	44095	9521	0	8070	61686	3377	58309	38491	7203	45694	9597	12740	78		
2	Amreli	61736	9585	0	9514	80836	4042	76794	46774	2637	49411	3532	26488	64		
3	Anand	34561	21623	0	22695	78879	4539	74340	33888	5128	39016	6875	33576	52		
4	Banaskantha	82040	13061	0	20424	115525	7739	107787	109620	5696	115316	7638	5917	107		
5	Bharuch	30556	2450	0	7909	40916	2046	38870	16182	2228	18410	2978	19710	47		
6	Bhavnagar	64370	16749	0	13160	94280	4714	89566	51733	5638	57371	7561	30271	64		
7	Dang	6883	1891	0	329	9103	455	8648	902	566	1468	758	6988	17		
8	Dohad	21542	6890	0	8822	37254	1863	35392	13256	4395	17651	5547	16588	50		
9	Gandhinagar	38140	5013	0	5685	48838	3538	45300	51272	3112	54384	4257	0	120		
10	Jamnagar	71335	11279	0	7400	90014	4501	85513	50412	4500	54912	6033	29068	64		
11	Junagadh	109853	12852	0	14523	137228	6861	130366	73356	6869	80225	9203	47807	62		
12	Kachchh	55414	12927	0	15470	83811	4191	79621	58927	4243	63170	5694	15855	79		
13	Kheda	47791	14753	0	15493	78037	4026	74011	41345	5866	47210	7862	24805	64		
14	Mahesana	69114	7639	0	11271	88025	4401	83624	91506	5562	97068	7455	423	116		
15	Narmada	16400	1778	0	4447	22625	1131	21494	4826	1554	6380	2085	14583	30		
16	Navsari	17965	8968	0	13613	40546	2027	38518	16249	2344	18593	3117	19153	48		
17	Panchmahals	36651	13917	0	23371	73939	3697	70242	23568	5569	29137	7007	39666	41		
18	Patan	19710	3082	0	5272	28064	2806	25258	28978	1921	30899	2495	0	122		
19	Porbandar	17266	2124	0	1352	20743	1037	19705	13278	835	14113	1618	4809	72		
20	Rajkot	109364	19838	0	23622	152825	7641	145183	87049	7816	94865	10344	47790	65		
21	Sabarkantha	92046	15694	0	17140	124881	6244	118637	80640	5614	86254	7738	30259	73		
22	Surat	32201	19485	0	33947	85633	4282	81352	30197	6315	36512	8339	42816	45		
23	Surendranagar	57259	3097	0	5947	66303	3315	62987	34561	2937	37498	3936	24490	60		
24	Tapi	25007	3178	0	7289	35474	1774	33701	9633	1397	11030	1824	22243	33		
25	Vadodara	95165	11319	0	19497	125982	6299	119682	56601	8129	64730	10566	52515	54		
26	Valsad	22402	5822	0	7186	35410	1771	33640	11521	2669	14190	3578	18541	42		
State Total (ham)		1278867	254537	0	323451	1856855	98317	1758539	1074766	110743	1185508	147637	587102	67		
State Total (bcm)		12.79	2.55	0.00	3.23	18.57	0.98	17.59	10.75	1.11	11.86	1.48	5.87	67		

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
HARYANA**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	Ambala	30834	10923	9196	7148	58101	4849	53252	38323	7710	46033	8954	5975	86		
2	Panchkula	8164	2373	2569	1792	14898	980	13918	8464	2790	11254	4319	1135	81		
3	Fatehabad	17482	20511	3300	17586	58879	5887	52992	90660	1400	92060	1809	-39477	174		
4	Bhiwani	33642	12844	6122	15476	68084	6227	61857	70596	758	71354	832	-9571	115		
5	Hissar	22210	16117	4389	26202	68918	6598	62320	57841	452	58293	565	3914	94		
6	Gurgaon	12560	3023	4440	6697	26720	2672	24048	36266	18152	54418	18152	-30370	226		
7	Mewat	10254	4243	4280	5531	24308	1944	22364	17586	1190	18776	1755	3023	84		
8	Faridabad	9059	3975	3256	5448	21738	2174	19564	12691	2232	14923	2733	4140	76		
9	Palwal	12683	13076	2497	17948	46204	3297	42907	40597	999	41596	1310	1000	97		
10	Jhajjar	12543	13043	2822	16899	45307	4069	41238	40768	291	41059	339	131	100		
11	Jind	18941	28732	9601	36267	93541	8749	84792	91079	3717	94796	3812	-10099	112		
12	Kaithal	16997	21240	5193	15272	58702	5193	53509	108316	6241	114557	6241	-61048	214		
13	Karnal	26958	26173	5315	31797	90243	8012	82231	120647	1244	121891	1244	-39660	148		
14	Kurukshetra	17963	9082	4946	6380	38371	3038	35333	71099	6737	77836	6737	-42503	220		
15	Mahendragarh	13402	1924	3335	5819	24480	2000	22480	22506	421	22927	470	-496	102		
16	Panipat	12814	8687	2597	10441	34539	3452	31087	50148	496	50644	496	-19557	163		
17	Rewari	13018	3609	3075	11844	31546	3154	28392	31999	116	32115	126	-3733	113		
18	Rohtak	10823	15309	4179	17653	47964	4193	43771	30488	100	30588	117	13166	70		
19	Sirsa	14540	27928	4903	38575	85946	8594	77352	135443	776	136219	776	-58867	176		
20	Sonepat	22272	25405	5955	31921	85553	8555	76998	102617	4630	107247	4639	-30258	139		
21	Yamunanagar	27599	9097	9165	7960	53821	5380	48441	56434	10215	66649	10499	-18492	138		
STATE TOTAL (ham)		364758	277314	101135	334656	1077863	99017	978846	1234568	70667	1305235	75925	-331647	133		
STATE TOTAL (bcm)		3.65	2.77	1.01	3.35	10.78	0.99	9.79	12.35	0.71	13.05	0.76	(-)3.31	133		

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
HIMACHAL PRADESH**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	Indaura Valley	7533.47	314.28	2090.68	628.56	10566.99	528.35	10038.64	3771.37	1492.35	5263.72	1492.35	4774.92	52		
2	Nurpur Valley	5155.6	125.85	1872.52	251.7	7405.67	370.28	7035.39	1510.2	1511.33	3021.53	1511.33	4013.86	43		
3	Balh Valley	2118.76	21.15	792.11	42.29	2974.31	148.72	2825.59	253.73	659.04	912.77	659.04	1912.82	32		
4	Paonta Valley	6658.61	109.67	1120.77	219.34	8108.39	405.42	7702.97	1316.02	858.44	2174.46	858.44	5528.51	28		
5	Kala Amb Valley	71.02	4.24	17.93	8.47	101.66	5.08	96.58	50.81	494.51	545.32	494.51	-448.74	565		
6	Nalagarh Valley	6283.55	184.91	1521.57	369.82	8359.85	417.99	7941.86	2218.92	2113.39	4332.31	2113.39	3609.55	55		
7	Una Valley	10464.22	1681.81	2537.96	3108.76	17792.75	889.64	16903.11	15480.4	5485.88	20966.28	5485.88	-4063.17	124		
8	Hum Valley	389.14	41.57	113.26	49.14	593.11	29.66	563.45	454.14	106.9	561.04	125.36	-16.05	100		
State total (ham)		38674.37	2483.48	10066.8	4678.08	55902.73	2795.14	53107.59	25055.59	12721.84	37777.43	12740.3	15311.7	71		
StateTotal (bcm)		0.39	0.02	0.10	0.05	0.56	0.03	0.53	0.25	0.13	0.38	0.13	0.15	71		

Note: Assessment carried out in the valley areas of 5 districts out of total 12 districts in the State since rest of the areas are predominantly hilly

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
JAMMU & KASHMIR**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	Jammu	39840	55640	10000	24622	130102	13010	117092	12993	8503	21496	9162	94937	18		
2	Kathua	18613	21474	4637	8946	53671	5367	48304	5469	3127	8596	3793	39043	18		
3	Srinagar	5908	8742	1474	488	16612	1661	14951	500	9328	9827	12304	2147	66		
4	Anantnag	13245	34367	3300	98	51009	5101	45908	69	5014	5083	6447	39392	11		
5	Baramulla	23040	22138	5760	832	51770	5177	46593	401	4071	4472	4959	41233	10		
6	Badgam	9131	18127	2278	96	29632	2963	26669	62	7088	7150	8519	18088	27		
7	Pulwama	9349	19182	2337	24	30893	3089	27803	90	7922	8012	10318	17395	29		
8	Kupwara	8342	10607	2086	20	21055	2106	18950	24	4858	4882	6607	12318	26		
9	Udhampur	2384	2892	597	611	6483	648	5835	15	2785	2800	3045	2775	48		
10	Rajouri	6440	2967	1610	782	11800	1180	10620	231	3102	3333	4063	6326	31		
11	Poonch	3920	4960	980	574	10434	1043	9391	5	3762	3767	4910	4476	40		
12	Doda	2153	2919	492	407	5972	597	5374	6	1043	1049	1715	3654	20		
13	Kargil	240	1283	60	0	1583	158	1425	0	132	132	167	1259	9		
14	Leh	2640	804	660	0	4104	410	3694	12	40	52	55	3627	1		
State Total (ham)		145246	206103	36271	37500	425120	42512	382608	19875	60775	80650	76065	286668	21		
State Total (bcm)		1.45	2.06	0.36	0.37	4.25	0.43	3.83	0.20	0.61	0.81	0.76	2.87	21		

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
JHARKHAND**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	Bokaro	20333	158	2546	1849	24886	1805	23081	5488	2474	7962	3575	14018	34		
2	Chatra	24927	216	3427	2389	30959	2187	28772	8886	1374	10260	2262	17623	36		
3	Deoghar	17805	53	6304	1506	25668	1935	23733	5527	2754	8282	4783	13423	35		
4	Dhanbad	12716	66	2587	1010	16378	1435	14943	3715	4623	8338	5780	5449	56		
5	Dumka	20061	2314	6125	1713	30212	3021	27191	5635	1948	7582	2509	19047	28		
6	E-Singhbhum	26081	146	4982	891	32101	3001	29100	3138	3467	6605	3837	22125	23		
7	Garhwa	25680	1555	4041	2493	33768	2783	30986	9221	2027	11248	2925	18839	36		
8	Giridih	37470	81	6363	3141	47055	3360	43695	12308	3913	16221	5245	26142	37		
9	Godda	10583	1151	2648	1105	15487	1216	14271	4369	2052	6421	2414	7488	45		
10	Gumla	31233	905	8154	2462	42754	4275	38478	9094	1622	10716	2176	27208	28		
11	Hazaribagh	27712	703	5999	2991	37404	3154	34250	11022	3378	14399	4556	18673	42		
12	Jamtara	13568	14	3429	876	17888	1480	16407	3268	1401	4669	1888	11251	28		
13	Khunti	10438	658	4660	1031	16786	1679	15107	3728	724	4452	1166	10213	29		
14	Koderma	6335	3	1371	474	8182	610	7572	1818	885	2703	1286	4468	36		
15	Latehar	21629	147	3362	1566	26703	2086	24617	5772	1006	6778	1520	17325	28		
16	Lohardaga	7550	356	2313	956	11176	1118	10058	3498	627	4125	948	5612	41		
17	Pakur	11340	279	3314	256	15188	1405	13783	785	1255	2041	1897	11101	15		
18	Palamu	29279	1616	5715	2631	39242	3566	35676	9633	2654	12287	3855	22188	34		
19	Ramgarh	11423	44	1513	873	13854	1219	12635	3237	1806	5043	1867	7531	40		
20	Ranchi	28405	996	7795	3016	40212	3625	36587	11404	5982	17386	8718	16465	48		
21	Sahibganj	12190	196	1770	379	14535	1307	13228	957	2113	3070	3159	9112	23		
22	Saraikela	16180	617	4329	317	21443	1977	19465	690	2640	3330	3308	15467	17		
23	Simdega	23463	276	5298	1655	30693	2865	27828	7021	1086	8107	1630	19178	29		
24	W-Singhbhum	28470	887	8387	393	38136	3394	34742	1064	3064	4128	4563	29114	12		
	State Total (ham)	474870	13436	106432	35972	630710	54503	576206	131277	54875	186152	75869	369060	32		
	State Total (bcm)	4.75	0.13	1.06	0.36	6.31	0.55	5.76	1.31	0.55	1.86	0.76	3.69	32		

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
KARNATAKA**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	Bagalkote	12284	15081	5950	9893	43208	3634	39574	32904	3028	35932	3838	10795	91		
2	Bangalore Rural	9511	3419	4999	3463	21391	1206	20184	22376	3239	25616	3240	107	127		
3	Bangalore Urban	7031	1205	3624	1557	13417	670	12746	12229	5749	17978	5749	0	141		
4	Belgaum	32940	47292	10926	22967	114125	10689	103436	73925	6337	80261	8000	31892	78		
5	Bellary	21260	23230	13408	15048	72946	6980	65966	24363	3072	27436	4871	37877	42		
6	Bidar	22699	2201	3874	3948	32722	2042	30680	15732	1766	17498	2348	13719	57		
7	Bijapur	27163	7944	9209	7130	51446	4036	47410	30634	5006	35640	6070	16071	75		
8	Chamrajnagara	13119	11074	6062	7529	37785	3463	34322	26170	1446	27616	1910	10017	80		
9	Chikballapur	11987	8362	7901	4453	32703	2820	29883	40612	2705	43318	2735	1591	145		
10	Chikmagalur	36800	12513	12862	6455	68630	12228	56402	22015	2235	24250	2604	32580	43		
11	Chitradurga	22475	8789	15463	8125	54852	5174	49677	47941	2941	50882	3557	5998	102		
12	Dakshin Kannada	39267	1691	7174	3447	51579	19175	32404	19414	2958	22373	3471	10614	69		
13	Davangere	21977	10555	13697	14986	61215	5263	55952	46814	2800	49613	4236	11840	89		
14	Dharwad	14556	3810	6236	2549	27151	5406	21745	11850	917	12767	1524	8549	59		
15	Gadag	10826	5740	6012	4549	27127	2170	24957	20613	1577	22190	2011	5581	89		
16	Gulbarga	29185	5181	9049	25880	69295	5996	63299	16699	3374	20073	4609	42025	32		
17	Hassan	21739	28695	13069	18516	82020	8428	73593	37804	2347	40151	3486	38414	55		
18	Haveri	18802	23494	9235	6657	58188	5034	53154	31214	2680	33894	3734	18465	64		
19	Kodagu	20382	1570	9156	1220	32328	4887	27441	5451	433	5884	617	21373	21		
20	Kolar	12847	6287	7515	7241	33889	2062	31828	57766	1757	59523	1757	0	187		
21	Koppal	13610	19868	7018	19596	60093	5740	54352	21625	1590	23215	2533	31181	43		
22	Mandyā	12658	45481	7482	38774	104395	10292	94103	42432	2043	44476	3470	52536	47		
23	Mysore	18838	19228	12551	12774	63391	5588	57803	23075	2043	25118	3634	32178	43		
24	Raichur	19668	30039	9152	33257	92116	8907	83209	23232	2207	25439	3483	57628	31		
25	Ramanagara	8720	4378	7004	3986	24087	1789	22298	19527	4527	24054	4779	749	108		
26	Shimoga	41067	35836	11424	19888	108216	15667	92549	23330	1962	25292	2856	66378	27		
27	Tumkur	27235	22330	20112	15752	85428	7005	78424	73846	4488	78334	6596	15495	100		
28	Udupi	45144	958	5995	1736	53834	21058	32775	9646	2393	12039	2888	20241	37		
29	Uttar kannada	70874	3637	5611	3299	83421	30516	52905	16869	2752	19621	3256	32780	37		
30	Yadgir	16438	6632	5425	13171	41666	3616	38050	9051	1607	10657	2499	26500	28		
State total (ham)		681101	416520	267196	337846	1702663	221541	1481122	859160	81981	941141	106365	653174	64		
StateTotal (bcm)		6.81	4.17	2.67	3.38	17.03	2.22	14.81	8.59	0.82	9.41	1.06	6.53	64		

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
KERALA**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	Alappuzha	30407	70	7300	10869	48646	3356	45290	2992	10040	13032	10372	31927	29		
2	Ernakulam	42496	483	7942	13578	64499	6173	58327	10308	13931	24240	15296	32722	42		
3	Idukki	16233	110	3119	2376	21838	2184	19655	2874	5496	8370	5985	10796	43		
4	Kannur	45296	679	0	7256	53232	5219	48013	10943	10939	21882	11932	25137	46		
5	Kasargod	31039	815	0	4690	36544	3654	32889	16705	6775	23480	7798	8387	71		
6	Kollam	31965	166	10452	4172	46756	4535	42221	4015	11933	15948	13016	25190	38		
7	Kottayam	34780	133	7331	6939	49182	4612	44570	3491	9214	12705	10704	30375	29		
8	Kozhikode	36227	229	0	1447	37904	3442	34462	5200	14024	19224	15793	13469	56		
9	Malappuram	40081	360	5590	8500	54531	4976	49555	8166	20235	28401	24392	16996	57		
10	Palakkad	45501	1742	7769	30802	85814	7432	78383	35494	13151	48646	14197	28894	62		
11	Pathanamthitta	18208	123	6126	3461	27918	2616	25302	3463	6004	9467	6304	15534	37		
12	Thiruvananthapuram	24892	285	7439	2981	35596	2724	32871	3985	13316	17301	14699	14187	53		
13	Thrissur	57151	1072	0	17282	75505	7352	68153	22167	13720	35888	15216	30769	53		
14	Waynad	30407	21	0	246	30675	3067	27607	652	4319	4971	4816	22139	18		
State Total (ham)		484682	6289	63067	114600	668639	61341	607297	130456	153098	283554	170520	306524	47		
State Total (bcm)		4.85	0.06	0.63	1.15	6.69	0.61	6.07	1.30	1.53	2.84	1.71	3.07	47		

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
MADHYA PRADESH**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	Alirajpur	19494	801	0	1352	21648	1082	20565	3802	2162	5964	2951	13813	29		
2	Annupur	34230	99	5578	257	40163	2008	38155	1017	1162	2180	1399	35738	6		
3	Ashoknagar	36962	1650	0	5556	44168	2208	41959	18738	1588	20326	2414	20806	48		
4	Balaghat	81283	3872	8091	2579	95825	4791	91034	9620	3107	12728	4114	77299	14		
5	Barwani	36947	1444	0	5083	43475	2174	41301	26800	3019	29819	5004	9496	72		
6	Betul	94384	3022	12410	10141	119956	5998	113959	55565	3594	59159	4813	53580	52		
7	Bhind	51997	749	2061	11165	65972	3299	62673	22632	2764	25396	3718	36323	41		
8	Bhopal	31933	1863	0	5431	39227	1961	37266	25719	2356	28075	3211	8336	75		
9	Burhanpur	29082	877	0	4118	34077	1704	32373	23504	1147	24651	1422	7446	76		
10	Chhatarpur	64451	3049	0	11278	78778	3939	74839	47508	2761	50270	4012	23318	67		
11	Chhindwara	109835	4133	11905	13734	139607	6980	132627	64955	5274	70230	7194	60477	53		
12	Damoh	32722	1403	0	8091	42217	2111	40106	22861	2113	24974	3761	13484	62		
13	Datia	28596	684	0	5475	34756	1738	33018	14598	1248	15847	1928	16492	48		
14	Dewas	71825	2759	0	13063	87646	4382	83264	65523	2623	68146	3582	14159	82		
15	Dhar	80003	4483	0	18531	103017	5151	97867	75257	5005	80262	6769	15840	82		
16	Dindori	39722	106	4683	343	44853	2243	42611	1857	1384	3241	1714	39040	8		
17	Guna	64703	3348	0	10897	78949	3947	75002	38689	2665	41354	3389	32923	55		
18	Gwalior	35580	3726	1318	12204	52828	2641	50187	19710	1979	21689	3815	26662	43		
19	Harda	35662	2764	0	15286	53712	2686	51026	13730	976	14706	1330	35966	29		
20	Hoshangabad	142757	10334	0	60746	213837	10692	203145	35051	2933	37984	4348	163745	19		
21	Indore	44272	3624	0	12193	60089	3004	57084	65109	3369	68478	4183	-12207	120		
22	Jabalpur	51942	2675	980	6640	62238	3112	59126	25989	3141	29130	5083	28054	49		
23	Jhabua	20706	722	0	1785	23214	1161	22053	7657	2366	10023	3142	11254	45		
24	Katni	34444	1838	0	4786	41068	2053	39015	13404	2549	15953	3893	21717	41		
25	Khandwa	72460	1825	0	9533	83818	4191	79627	46898	2862	49760	4793	27936	62		
26	Khargone	65142	2821	0	11677	79640	3982	75658	53171	3467	56638	5062	17425	75		
27	Mandla	48261	732	6601	3007	58603	2930	55672	6218	2248	8465	3200	46255	15		
28	Mandsaur	46733	2385	0	11115	60232	3012	57221	51972	3229	55201	3219	2029	96		
29	Morena	41592	959	1079	20459	64089	3204	60885	20623	4289	24912	7209	33053	41		
30	Narsinghpur	105594	2890	0	14196	122679	6134	116545	85929	2168	88097	2708	27907	76		
31	Neemuch	31755	3695	0	7345	42795	2140	40656	32094	1749	33843	1973	6588	83		
32	Panna	50500	838	0	3292	54629	2731	51897	11531	2101	13633	2925	37441	26		
33	Raisen	83521	3012	0	8479	95013	4751	90262	37095	3168	40263	4393	48775	45		
34	Rajgarh	77303	3317	0	10528	91148	4557	86590	68296	3457	71753	4291	14004	83		
35	Ratlam	56957	4350	0	16258	77565	3878	73687	90218	2382	92601	2781	-19312	126		
36	Rewa	42292	915	2610	3596	49413	2471	46942	20570	4609	25179	5970	20402	54		
37	Sagar	110939	3425	0	14738	129102	6455	122647	69993	2418	72411	4642	48012	59		

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
MADHYA PRADESH**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
38	Satna	43518	2147	4309	7038	57012	2851	54162	35041	5167	40208	5867	13254	74		
39	Sehore	62638	3436	0	12873	78947	3947	74999	55106	2585	57692	5787	14106	77		
40	Seoni	68249	1396	551	4509	74706	3735	70970	17504	3029	20532	4412	49055	29		
41	Shahdol	59636	216	7502	508	67862	3393	64469	2305	1928	4233	2679	59485	7		
42	Shajapur	83175	4187	0	16745	104108	5205	98902	93239	3583	96822	3972	1691	98		
43	Sheopur	30388	587	0	13631	44606	2230	42376	14218	1274	15492	1690	26467	37		
44	Shivpuri	63109	2995	0	12517	78621	3931	74690	47917	3226	51143	4152	22621	68		
45	Sidhi	29807	727	3277	2184	35995	1800	34195	10705	2433	13138	3576	19914	38		
46	Singrauli	34818	683	0	2057	37558	1878	35680	8555	2257	10812	3608	23517	30		
47	Tikamgarh	43531	2819	0	12252	58602	2930	55672	37827	2348	40175	3813	14032	72		
48	Ujjain	74887	4064	0	16932	95883	4794	91088	83560	3141	86701	3935	3594	95		
49	Umaria	39318	340	5917	811	46386	2319	44067	3661	1277	4937	1873	38534	11		
50	Vidisha	82160	2058	0	9513	93731	4687	89045	44543	3585	48128	5004	39498	54		
State total (ham)		2821816	116846	78871	486530	3504063	175203	3328860	1748087	135265	1883352	190723	1390050	57		
State total (BCM)		28.22	1.17	0.79	4.87	35.04	1.75	33.29	17.48	1.35	18.83	1.91	13.90	57		

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
MAHARASHTRA**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	4	5	6	7	8	9	10	11	12	13	14	15	16		
1	Ahmednagar	101333	136668	26970	54485	196457	10325	186132	148892	3403	152295	6057	40936	82		
2	Akola	31274	1223	1699	8106	42302	2323	39979	16785	1197	17983	2394	20800	45		
3	Amravati	59485	3791	7173	24537	94987	5037	89950	57902	2865	60767	5055	30342	68		
4	Aurangabad	69459	6423	2807	40991	119680	6034	113647	78500	3257	81756	6392	29074	72		
5	Beed	84288	11841	15593	30325	142047	7244	134803	64172	4761	68932	9521	61110	51		
6	Bhandara	32384	6044	3904	12287	54620	3211	51409	14675	2316	16992	4628	32106	33		
7	Buldhana	69345	5007	5656	19830	99839	5676	94162	62735	2798	65533	5392	27268	70		
8	Chandrapur	100526	4654	0	4236	109415	5646	103770	9663	7172	16834	14344	79764	16		
9	Dhule	49795	5467	0	19276	74538	4334	70205	34596	1784	36380	3517	32093	52		
10	Gadchiroli	85046	1086	0	10250	96381	4819	91562	20225	2674	22899	5343	65994	25		
11	Gondia	39877	6687	3209	14684	64457	3846	60611	8788	3397	12185	6793	45030	20		
12	Hingoli	52136	1821	7211	46610	107779	5389	102390	36370	1804	38174	3607	62412	37		
13	Jalgaon	86016	5049	4433	47955	143453	7260	136193	104164	6226	110390	9798	29948	81		
14	Jalna	60031	2941	693	32095	95760	5253	90506	46874	1295	48169	2571	41081	53		
15	Kolhapur	60002	8059	3712	52339	124112	6206	117907	46927	1326	48253	2653	68327	41		
16	Latur	52861	5138	0	17869	75868	3854	72014	52215	2065	54280	3801	18144	75		
17	Nagpur	70403	5306	11334	26248	113290	6252	107038	51179	4801	55981	9430	46429	52		
18	Nanded	103980	858	16635	20105	141577	7116	134461	43379	3046	46425	6092	84990	35		
19	Nandurbar	40734	2285	0	8417	51437	2823	48614	22122	2373	24494	4745	21747	50		
20	Nashik	147580	10415	285	44143	202424	10892	191532	107175	3519	110693	6545	82051	58		
21	Osmanabad	67600	7587	8022	23463	106673	5396	101277	71082	1872	72954	3628	26931	72		
22	Parbhani	61459	719	3863	30859	96900	5022	91878	39446	1847	41293	3673	48758	45		
23	Pune	100919	13090	3692	65225	182927	9623	173304	119523	7067	126590	12837	45714	73		
24	Raigad	56364	410	0	5826	62600	3176	59425	5795	2094	7889	4188	49442	13		
25	Ratnagiri	46573	164	0	1347	48084	2413	45670	3986	1231	5217	2462	39222	11		
26	Sangli	56144	9587	2481	27193	95405	5925	89480	71147	2803	73950	5000	15871	83		
27	Satara	63874	8934	10508	25553	108869	5518	103351	70465	4946	75411	9564	23668	73		
28	Sindhudurg	24825	161	348	2286	27619	1381	26238	7771	1963	9734	3927	14541	37		
29	Solapur	99358	12852	13437	42104	167751	8535	159216	117997	4952	122949	9116	39527	77		
30	Thane	53005	525	0	8129	61659	3527	58132	6341	1255	7596	2510	49281	13		
31	Wardha	61676	469	9366	15668	87179	4707	82472	34445	3504	37949	7008	41019	46		
32	Washim	43903	2776	1604	11052	59336	3367	55969	19884	1575	21459	3149	32936	38		
33	Yeotmal	104154	2715	19403	13042	139315	7424	131890	19385	5746	25131	11492	101013	19		
State Total (ham)		2236409	167753	184041	806537	3394740	179552	3215188	1614604	102933	1717538	197232	1447570	53		
State Total (bcm)		22.36	1.68	1.84	8.07	33.95	1.80	32.15	16.15	1.03	17.18	1.97	14.48	53		

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
MANIPUR**

Sl. No.	District	Annual Replenishable Ground Water Resource				Provision for Natural Discharges	Net Annual Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial uses upto 2025	Net Ground Water Availability for Future Irrigation use	Stage of Ground Water Development (%)					
		Monsoon Season		Non Monsoon Season				Irrigation	Domestic & Industrial Water Supply	Total								
		Recharge from rainfall	Recharge from other sources	Recharge from rainfall	Recharge From Other Sources													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15				
1	Imphal West-I Block	2613.23	88.14	2144.71	176.38	5022.46	502.25	4520.21	93	26	119.26	857.16	3570.05	2.64				
2	Imphal West-II Block	1775.89	111.73	1457.5	223.47	3568.6	356.86	3211.74	12	4	16.03	417.82	2781.92	0.5				
3	Imphal East-I Block	2223.68	141.01	1825	282.03	4471.72	447.17	4024.54	6	2	8.02	621.05	3397.49	0.2				
4	Imphal East-II Block	4545.71	7.9	3730.72	15.83	8300.16	830.02	7470.14	27	7	34.08	542.69	6900.45	0.46				
5	Thoubal Block	2860.52	85.17	2347.67	170.37	5463.73	546.37	4917.36	33	6	39.1	700.75	4183.61	0.8				
6	Kakching Block	3027.61	72.09	2484.8	144.24	5728.74	572.87	5155.87	57	5	62.18	413.2	4685.67	1.21				
7	Bishnupur District *	4353.8	2.923	3573.216	5.87	7935.81	793.58	7142.23	30	10	40.08	606.936	6505.29	0.56				
8	Churachandpur District*	1909.56	14.429	1567.2	28.93	3520.12	352.01	3168.11	75	10	85.23	449	2644.11	2.69				
State total (ham)		23310	523	19131	1047	44011	4401	39610	333	70	404	4609	34669	1.02				
StateTotal (bcm)		0.23	0.01	0.19	0.01	0.44	0.04	0.40	0.0033	0.0007	0.004	0.05	0.35	1.02				

Note: 1. Assessment carried out by CGWB in absence of active participation of State Govt

2. * In Bishnupur and Churachandpur district details of relevant block level data of the various parameters from the State Govt. are not available

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
MEGHALAYA**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	East Khasi Hills	35359	99.6	1782	23	37263	3726	33537	0	6	6	3576	29961	0.018		
2	West Garo Hills	51195	629.7	2333	185.7	54343	5434	48909	150	3.55	153.6	5799	42959	0.314		
3	East Garo Hills	37933	779.7	1167	52.3	39932	3993	35939	0	1.76	1.8	2845	33094	0.005		
4	Jaintia Hills	30774	353.1	1519	136	32783	3278	29505	0	1.98	2.0	3672	25832	0.007		
5	West Khasi Hills	5687	211.5	317	48	6264	626	5637	0	2.03	2.0	3575	2063	0.036		
6	Ri-Bhoi	5015	401.4	300	0	5716	572	5144	0	1.25	1.3	2465	2680	0.024		
7	South Garo Hills	1634	69	35	10	1748	175	1573	0	0.67	0.7	1312	261	0.043		
State Total (ham)		167597	2544	7453	455	178049	17805	160244	150	17.24	167.24	23244	136850	0.104		
State Total (bcm)		1.68	0.03	0.07	0.005	1.78	0.18	1.60	0.0015	0.0002	0.0017	0.232	1.37	0.080		

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
MIZORAM**

Sl. No.	District	Annual Replenishable Ground Water Resource				Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial uses upto 2025	Net Ground Water Availability for Future Irrigation use	Stage of Ground Water Development (%)					
		Monsoon Season		Non Monsoon Season				Irrigation	Domestic & Industrial Water Supply	Total								
		Recharge from Rainfall	Recharge From Other Sources	Recharge from Rainfall	Recharge From Other Sources													
1	2	4	5	6	7	8	9	10	11	12	13	14	15	16				
1	Aizawl	242	Negligible	69	Negligible	311	31	280	0	21	21	83	198	7.46				
2	Champhai	473	Negligible	223	Negligible	696	70	626	0	16	16	23	603	2.54				
3	Kolasib	384	Negligible	40	Negligible	424	42	382	0	8	8	17	364	2.07				
4	Lawngtalai	537	Negligible	42	Negligible	579	58	521	0	9	9	28	493	1.64				
5	Lunglei	196	Negligible	22	Negligible	218	22	196	0	23	23	27	169	11.93				
6	Mamit	289	Negligible	36	Negligible	325	33	293	0	7	7	21	272	2.41				
7	Saiha	255	Negligible	18	Negligible	273	27	246	0	3	3	11	235	1.06				
8	Serchipp	194	Negligible	17	Negligible	210	21	189	0	10	10	12	177	5.29				
	State Total (ham)	2571	Negligible	465	Negligible	3037	304	2733	0	96	96	222	2511	3.52				
	State Total (bcm)	0.0257	Negligible	0.005	Negligible	0.030	0.003	0.027	0.000	0.0010	0.0010	0.002	0.025	3.52				

Note: Assessment carried out by CGWB in absence of active participation of State Govt

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
NAGALAND**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Kohima	3198	Negligible	1668	Negligible	4866	487	4379	0	566	566	779	3601	12.9
2	Dimapur	16347	Negligible	8529	Negligible	24876	2488	22388	0	851	851	1180	21209	3.8
3	Phek	2297	Negligible	1198	Negligible	3495	350	3146	0	239	239	277	2868	7.6
4	Mokokchung*	4134	Negligible	2157	Negligible	6291	629	5662	0	286	286	287	5375	5.1
5	Zunheboto*	1638	Negligible	854	Negligible	2492	249	2243	0	206	206	207	2036	9.2
6	Wokha	3418	Negligible	1783	Negligible	5201	520	4681	0	243	243	255	4426	5.2
7	Tuensang	7594	Negligible	3962	Negligible	11556	1156	10400	0	642	642	699	9701	6.2
8	Mon*	1849	Negligible	965	Negligible	2814	281	2533	0	366	366	368	2165	14.5
State Total (ham)		40475	Negligible	21116	Negligible	61591	6159	55432	0	3399	3399	4052	51380	6.13
State Total (bcm)		0.40	Negligible	0.21	Negligible	0.62	0.06	0.55	0.00	0.034	0.034	0.04	0.51	6.13

negative figure. The population of 2025 has been calculated considering the decadal growth rate of 2001-2011, except for these three districts where the projected population of 2025 has been taken same as the population of the year 2011.

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
ORISSA**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	Angul	37078	4312	1645	5795	48830	2753	46077	12388	3493	15881	4509	29180	34		
2	Balasore	78853	13281	4808	19543	116485	6422	110063	52195	5742	57937	8401	49467	53		
3	Bargarh	38893	4556	1127	4261	48837	2783	46054	8607	3293	11900	3797	33650	26		
4	Bhadrak	26200	8525	1862	11629	48216	2807	45409	23995	2663	26658	3418	17996	59		
5	Bolangir	45972	5958	3265	5599	60794	3138	57656	10045	3091	13136	3421	44191	23		
6	Boudh	14105	7742	1930	6123	29900	2061	27839	4698	910	5608	1265	21876	20		
7	Cuttack	38608	12326	2430	22353	75717	5001	70716	20774	6089	26863	7620	42322	38		
8	Deogarh	13351	4256	0	4566	22173	1544	20629	2657	664	3321	949	17023	16		
9	Dhenkanal	36582	3574	2820	3896	46872	2608	44264	8724	2797	11521	3340	32200	26		
10	Gajapati	10985	3549	5802	3673	24009	1339	22670	5081	1140	6221	1302	16286	27		
11	Ganjam	52792	33115	21513	15650	123070	8529	114541	27508	7334	34842	9475	77558	30		
12	Jagatsinghpur	20734	9595	2328	16026	48683	3654	45029	21234	1970	23204	2463	21332	52		
13	Jajpur	39472	4761	7385	8786	60404	3471	56933	25515	2190	27705	2999	28419	49		
14	Jharsuguda	14605	1572	0	1600	17777	986	16791	3590	1563	5153	1757	11444	31		
15	Kalahandi	49321	15576	0	15088	79985	5074	74911	10619	4312	14931	9644	54648	20		
16	Kandhamal	46661	5696	16364	5610	74331	4065	70266	7071	1776	8847	2530	60665	13		
17	Kendrapara	5926	4318	179	7282	17705	924	16781	8917	673	9590	830	7034	57		
18	Keonjhar	67852	5920	4720	7605	86097	4774	81323	18894	4395	23289	4787	57642	29		
19	Khurda	27948	7316	8884	6639	50787	3169	47618	10478	5227	15705	7673	29467	33		
20	Koraput	56710	7072	4249	5587	73618	4501	69117	3362	3409	6771	3905	61850	10		
21	Malkangiri	25865	5111	1091	3824	35891	2293	33598	1858	1330	3188	1853	29887	9		
22	Mayurbhanj	87685	31446	10090	29333	158554	10360	148194	37272	6469	43741	8384	102538	30		
23	Nabarangapur	46035	1724	3824	1615	53198	2720	50478	4606	2986	7592	6630	39242	15		
24	Nayagarh	25801	6297	6747	6714	45559	2877	42682	8293	2056	10349	2489	31900	24		
25	Nuapada	25491	5113	0	5314	35918	2232	33686	5511	1522	7033	3262	24913	21		
26	Puri	35384	7829	11480	8202	62895	4089	58806	9039	3259	12298	4136	45631	21		
27	Rayagada	42949	10007	7779	9408	70143	4462	65681	6944	2774	9718	3161	55576	15		
28	Sambalpur	34746	10749	0	10989	56484	3964	52520	5941	2594	8535	3181	43398	16		
29	Subarnapur	17161	2348	607	2531	22647	1218	21429	2970	1273	4243	1606	16853	20		
30	Sundergarh	65419	9060	0	7621	82100	4775	77325	12471	4628	17099	5389	59465	22		
State Total (ham)		1129184	252704	132929	262862	1777679	108593	1669086	381258	91622	472880	124175	1163653	28		
State Total (bcm)		11.29	2.53	1.33	2.63	17.78	1.09	16.69	3.81	0.92	4.73	1.24	11.64	28		

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
PUNJAB**

Sl. No.	District	Annual Replenishable Ground Water Resource				Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial uses upto 2025	Net Ground Water Availability for Future Irrigation use	Stage of Ground Water Development (%)		
		Monsoon Season		Non Monsoon Season				Irrigation	Domestic & Industrial Water Supply	Total					
		Recharge from Rainfall	Recharge From Other Sources	Recharge from Rainfall	Recharge From Other Sources										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	Amritsar	31831	73083	8390	23767	137072	13707	123365	217150	5008	222158	7810	-101596	180	
2	Barnala	12058	34679	2239	16512	65488	6549	58939	118878	1254	120132	1839	-61778	204	
3	Bathinda	27051	37913	5030	41144	111138	9458	101681	118446	3005	121452	4500	-21266	119	
4	Faridkot	12575	35926	2187	17158	67846	6785	61061	95603	1943	97546	1943	-36485	160	
5	Fateh Garh Sahib	16209	30474	3685	9542	59910	5991	53919	111180	2076	113256	2702	-59963	210	
6	Ferozepur	40799	114703	8670	46442	210614	21061	189552	275576	3375	278951	4989	-91013	147	
7	Gurdaspur	57702	92053	15253	31224	196232	18612	177621	219741	6637	226378	9313	-51433	127	
8	Hoshiarpur	48029	27202	12219	11075	98525	8752	89774	87047	4917	91963	6248	-3522	102	
9	Jalandhar	36096	61810	8341	24282	130529	13053	117476	267002	4729	271731	6813	-156339	231	
10	Kapurthala	21559	38424	5914	7458	73355	7335	66019	150588	3900	154488	4693	-89261	234	
11	Ludhiana	48155	110670	10141	62300	231265	23127	208139	336828	11229	348057	16442	-145131	167	
12	Mansa	17834	35437	3586	20529	77386	7739	69647	144741	13	144754	13	-75107	208	
13	Moga	21876	77174	4277	30642	133969	13397	120572	242148	1802	243949	2378	-123953	202	
14	Muktsar	20934	28256	3921	33460	86571	8657	77914	51625	2460	54085	2460	23829	69	
15	Nawan Shahr	20248	28986	4971	15512	69718	6972	62746	70742	1515	72256	1887	-9883	115	
16	Patiala	44007	79988	9392	32670	166056	16606	149451	288631	4348	292979	6675	-145855	196	
17	Ropar	18731	13350	4327	9215	45623	3794	41829	43775	2384	46159	3191	-5136	110	
18	Mohali	19496	4665	4263	2113	30538	3054	27484	23576	4618	28194	5535	-1626	103	
19	Sangrur	40154	76431	9016	19456	145057	14506	130551	366396	3031	369427	4445	-240290	283	
20	Tarn Taran	27149	62516	7297	19040	116002	11600	104402	187566	2664	190230	4217	-87381	182	
	State Total (ham)	582493	1063741	133119	473541	2252894	220752	2032142	3417238	70907	3488145	98094	-1483189	172	
	State Total (bcm)	5.82	10.64	1.33	4.74	22.53	2.21	20.32	34.17	0.71	34.88	0.98	-14.83	172	

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
RAJASTHAN**

Sl. No.	District	Annual Replenishable Ground Water Resource				Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial uses upto 2025	Net Ground Water Availability for Future Irrigation use	Stage of Ground Water Development (%)		
		Monsoon Season		Non Monsoon Season				Irrigation	Domestic & Industrial Water Supply	Total					
		Recharge from Rainfall	Recharge From Other Sources	Recharge from Rainfall	Recharge From Other Sources										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	Ajmer	27610	1489	0	6412	35511	3305	32206	41547	4691	46238	4691	0	144	
2	Alwar	57442	3380	7575	11154	79551	6382	73169	121552	9566	131118	9595	399	179	
3	Banswara	10540	1050	0	14171	25761	2696	23066	9231	1961	11192	2853	10982	49	
4	Baran	36263	5759	279	9666	51967	4804	47163	52596	3938	56534	4475	5562	120	
5	Barmer	25196	622	0	1435	27253	2524	24729	23901	6766	30666	6847	2117	124	
6	Bharatpur	36864	2580	1672	8134	49250	4314	44936	45839	6378	52218	6569	396	116	
7	Bhilwara	33176	2310	0	10945	46431	4476	41955	50198	3980	54178	3980	0	129	
8	Bikaner	24004	235	0	1026	25265	1263	24001	25867	8374	34241	9033	4011	143	
9	Bundi	22293	2754	0	17217	42265	5970	36295	33669	2711	36380	3472	5328	100	
10	Chittorgarh	25898	1833	0	7546	35276	3417	31860	43227	1379	44606	1379	0	140	
11	Churu	14101	0	0	0	14101	705	13395	9445	2408	11854	4398	3096	88	
12	Dausa	21700	1186	343	3145	26373	2620	23753	37886	2487	40374	2487	0	170	
13	Dholpur	21430	1383	0	5499	28312	2382	25930	30706	2526	33233	2576	1596	128	
14	Dungarpur	7986	1211	0	4906	14103	1291	12812	8396	882	9278	4416	0	72	
15	Ganganagar	2711	14301	669	23118	40798	4080	36719	15617	545	16163	1033	20068	44	
16	Hanumangarh	2954	6950	316	12429	22649	2265	20384	15716	705	16421	1107	3561	81	
17	Jaipur	58832	2331	3333	6742	71238	6685	64552	108111	25686	133797	25733	979	207	
18	Jaisalmer	6721	16	0	55	6792	633	6159	9356	2893	12249	2961	1874	199	
19	Jalore	40787	1114	0	4383	46285	4086	42200	77952	4090	82042	4191	969	194	
20	Jhalawar	36546	1968	0	5657	44171	2948	41223	47601	1583	49183	1940	479	119	
21	Jhunjhunu	21173	213	3498	1466	26350	2350	24000	45604	8571	54175	8604	330	226	
22	Jodhpur	38126	656	2139	2031	42952	4239	38713	73164	10415	83579	11303	4761	216	
23	Karauli	31897	1162	0	4254	37313	3617	33697	41177	5064	46241	4984	1239	137	
24	Kota	31458	3089	0	22142	56689	5359	51330	42097	4891	46988	6251	7776	92	
25	Nagaur	51178	517	4161	2219	58075	5649	52426	81186	17893	99079	18953	4120	189	
26	Pali	27262	848	0	4749	32859	3229	29630	31436	2747	34184	3048	959	115	
27	Pratapgarh	11064	926	0	3532	15521	1436	14086	16884	597	17481	982	399	124	
28	Rajsamand	8495	786	0	2592	11873	1187	10686	10270	1525	11795	1525	63	110	
29	Sawai Madhopur	33916	1499	0	4222	39636	3594	36042	37408	7947	45355	8375	209	126	
30	Sikar	26968	294	4006	880	32148	3037	29111	37052	5842	42894	6238	972	147	
31	Sirohi	26211	878	0	3249	30338	2854	27485	29952	1108	31061	1484	1126	113	
32	Tonk	36225	2834	0	9294	48353	4459	43894	35745	7635	43380	9104	1841	99	
33	Udaipur	21242	1433	0	6010	28685	3394	25291	22931	3195	26125	3946	450	103	
State total (ham)		878268	67607	27990	220280	1194144	111249	1082895	1313318	170982	1484300	188532	91250	137	
StateTotal (bcm)		8.78	0.68	0.28	2.20	11.94	1.11	10.83	13.13	1.71	14.84	1.89	0.91	137	

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
SIKKIM**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	North	-	-	-	-	-	-	236	27	62	89	67	142	38		
2	South	-	-	-	-	-	-	1336	89	210	299	247	1001	22		
3	East	-	-	-	-	-	-	782	77	400	477	489	216	61		
4	West	-	-	-	-	-	-	2062	81	189	269	219	1763	13		
State Total (ham)		-	-	-	-	-	-	4416	274	860	1134	1021	3121	26		
State Total (BCM)		-	-	-	-	-	-	0.044	0.003	0.009	0.011	0.010	0.031	26		

Note: Assessment carried out by CGWB in absence of active participation of State Govt

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
TAMIL NADU**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	Ariyalur	14374	15999	1851	2772	34996	3500	31497	13793	2359	16152	2506	15198	51		
2	Chennai	1228	844	84	851	3007	301	2707		6125	6125	6961	-4255	226		
3	Coimbatore	22784	10007	5971	9995	48757	4876	43881	44920	5695	50615	5338	-6376	115		
4	Cuddalore	55022	70431	7592	4409	137454	13745	123708	49902	56774	106676	57188	16619	86		
5	Dharmapuri	18693	15364	3936	3767	41760	4176	37584	47799	1931	49730	2191	-12406	132		
6	Dindigul	23317	15306	6732	14261	59617	5962	53656	61267	2408	63675	2745	-10356	119		
7	Erode	17229	47984	4619	7505	77336	7734	69603	58656	6512	65168	6986	3961	94		
8	Kanchipuram	37896	62020	3830	13504	117250	11725	105525	63840	5579	69419	8940	32746	66		
9	Kanniyakumari	2533	18039	9783	3473	33829	3383	30446	4257	1486	5743	1623	24566	19		
10	Karur	13116	15136	4249	3414	35914	3591	32323	27922	1942	29864	2207	2194	92		
11	Krishnagiri	19842	11431	5029	3135	39437	3944	35494	45189	1954	47144	2782	-12478	133		
12	Madurai	14420	45407	4475	8885	73186	7319	65868	36412	1615	38027	1836	27620	58		
13	Nagapattinam	8026	7311	1001	1347	17684	1768	15916	15168	1121	16288	1274	-525	102		
14	Namakkal	14872	31112	3820	4832	54637	5464	49173	41563	2421	43984	1915	5695	89		
15	Nilgiri	10390	139	2583	104	13216	1322	11894	545	587	1131	625	10724	10		
16	Perambalur	8992	8970	2578	2530	23069	2307	20762	27053	1024	28076	1118	-7408	135		
17	Pudukkottai	78395	52619	13699	14296	159009	15901	143108	29139	2299	31438	2427	111542	22		
18	Ramanathapuram	26400	32551	8191	8712	75854	7585	68268	4856	3115	7970	3540	59872	12		
19	Salem	24115	19454	5155	9450	58174	5817	52356	80527	5105	85632	2866	-31037	164		
20	Sivagangai	26386	58885	6826	17446	109543	10954	98589	14120	1596	15716	1782	82687	16		
21	Thanjavur	32512	40275	5469	9416	87673	8767	78905	79511	2421	81933	2752	-3358	104		
22	Theni	9217	14943	8315	7211	39686	3969	35718	28804	1973	30778	2104	4809	86		
23	Thiruvallur	28054	48973	2042	1864	80933	8093	72840	28804	20485	49289	21133	22902	68		
24	Thoothukudi	17598	29460	6071	7377	60507	6051	54456	19506	4030	23536	4565	30385	43		
25	Tirunelveli	21648	63404	9167	4482	98702	9870	88832	48721	2941	51662	3262	36849	58		
26	Tiruppur	19141	14243	5060	10805	49250	4925	44325	52448	3801	56248	3676	-11799	127		
27	Tiruvarur	14476	12448	1977	4410	33311	3331	29980	20077	1343	21420	1527	8376	71		
28	Tirvannamalai	40015	66707	5000	9760	121482	12148	109334	87993	4444	92437	4972	16369	85		
29	Trichy	22721	45849	5931	6121	80622	8062	72560	49777	7339	57115	2727	20056	79		
30	Vellore	26695	29555	4974	4643	65867	6587	59280	53833	8311	62144	9304	-3857	105		
31	Villupuram	51439	100300	6558	8178	166475	16648	149828	148243	5691	153935	6453	-4869	103		
32	Virudhunagar	16818	22390	6888	8925	55021	5502	49519	32236	1950	34186	2481	14802	69		
State total (ham)		738364	1027559	169457	217880	2153260	215326	1937934	1316878	176378	1493256	181808	439247	77		
StateTotal (bcm)		7.38	10.28	1.69	2.18	21.53	2.15	19.38	13.17	1.76	14.93	1.82	4.39	77		

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
TRIPURA**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	4	5	6	7	8	9	10	11	12	13	14	15	16		
1	West Tripura	48816	0	21602	25363	95781	8084	87697	7134	3104	10238	8463	72100	12		
2	South Tripura	37250	0	21170	17420	75840	7027	68813	1980	1725	3705	5622	61211	5		
3	North Tripura	20457	0	15954	9242	45653	3613	42039	174	1366	1540	4073	37792	4		
4	Dhalai	18277	0	15317	7797	41390	4139	37251	30	745	775	1800	35421	2		
State Total (ham)		124800	0	74043	59821	258664	22864	235800	9318	6941	16259	19958	206524	7		
State Total (bcm)		1.248	0.000	0.740	0.598	2.587	0.229	2.358	0.093	0.069	0.163	0.200	2.065	7		

Note: Assessment carried out by CGWB in absence of active participation of State Govt

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
UTTAR PRADESH**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	Agra	48347	12250	6827	23124	90549	8335	82214	87858	5693	93551	9317	5192	114		
2	Aligarh	50778	13115	7430	24593	95916	9108	86808	65379	5920	71299	9842	12409	82		
3	Allahabad	74231	23835	0	25782	123848	6317	117531	8812	11320	95132	15587	21956	81		
4	Ambedkar Nagar	47963	24800	10664	24983	108410	5420	102989	53578	5016	58595	7932	41479	57		
5	Amethi	54563	23534	3287	29977	111360	10580	100781	63720	5286	69006	8841	28220	68		
6	Amroha (J P Nagar)	46911	8080	6880	12072	73944	7394	66549	69268	2878	72146	5033	4314	108		
7	Auraiya	28211	12461	0	26951	67624	3381	64242	41471	2777	44249	3954	18817	69		
8	Azamgarh	69175	23619	16826	30234	139854	6993	132861	73309	13186	86495	23148	37525	65		
9	Baghpat	29823	6355	0	12872	49050	3681	45369	42401	2199	44600	3598	934	98		
10	Bahraich	95364	5868	5581	10979	117793	10243	107549	52440	6798	59238	12951	42159	55		
11	Ballia	47366	15753	10390	20126	93634	4682	88953	52184	6739	58924	10707	26062	66		
12	Balrampur	73415	5612	0	10331	89359	4468	84891	38075	4219	42294	5583	41232	50		
13	Banda	53101	9729	0	8661	71491	3945	67546	34094	2804	36898	3926	29526	55		
14	Barabanki	91221	38900	18426	70014	218560	10928	207632	126319	7211	133529	10714	70599	64		
15	Bareilly	135274	22746	0	32447	190467	16071	174396	97066	6785	103851	10476	66853	60		
16	Basti	68119	12767	14739	14931	110557	9512	101044	74544	4831	79375	7291	19209	79		
17	Bijnor	113990	9571	12418	14144	150124	12605	137519	87228	5524	92752	9402	45971	67		
18	Budaun	85934	10064	9611	16806	122415	11037	111378	88593	5799	94392	8359	17042	85		
19	Bulandshahar	61151	35717	7471	62993	167331	15466	151866	118443	5953	124396	8403	26314	82		
20	Chandauli	36585	22595	0	16261	75441	3772	71669	22954	4298	27251	8868	39848	38		
21	Chitrakoot	23836	1162	0	1492	26490	1995	24495	14043	2155	16197	4206	7586	66		
22	Deoria	64979	12674	9515	19333	106500	5325	101175	71517	7505	79022	10006	19652	78		
23	Etah	32177	12040	5513	21601	71331	7133	64198	53131	3550	56682	5638	6878	88		
24	Etawah	36418	13401	2330	25666	77814	3891	73924	31472	2522	33995	3276	39175	46		
25	Faizabad	43060	13025	9073	15620	80778	8078	72700	41401	3810	45211	4731	26568	62		
26	Farrukhabad	42839	6295	4413	11604	65151	3258	61894	46022	3394	49417	5225	10647	80		
27	Fatehpur	67645	21328	0	30810	119784	8255	111528	100681	5500	106181	9581	4085	95		
28	Firozabad	35467	13865	5719	25338	80390	7344	73046	81486	4055	85541	7144	5266	117		
29	G.B.Nagar	19100	8500	2796	20515	50911	5091	45820	39872	2772	42644	3134	3944	93		
30	Ghaziabad	13444	5484	1730	10938	31596	1580	30016	24457	7109	31567	12456	2452	105		
31	Ghazipur	61401	25380	11594	34249	132624	7539	125085	77844	7770	85615	12708	34970	68		
32	Gonda	79389	9364	18395	16039	123187	6159	117028	75828	6834	82662	9582	31618	71		
33	Gorakhpur	121911	12732	30277	20613	185533	9277	176256	88964	7181	96145	13661	73632	55		
34	Hamirpur	31678	5400	7263	12448	56788	5253	51535	30091	2952	33042	4944	16732	64		
35	Hapur	21638	7009	2631	13209	44488	4449	40039	32979	2670	35649	3645	5045	89		
36	Hardoi	94150	39799	7540	49433	190921	9546	181375	116701	7579	124280	11907	52767	69		
37	Hathras	24475	12004	3954	22089	62522	5041	57482	45783	2802	48585	3871	10278	85		

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
UTTAR PRADESH**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
38	Jalaun	71566	28678	9862	84756	194862	9743	185119	48576	4395	52971	6333	130211	29		
39	Jaunpur	70473	26135	0	39515	136123	11816	124306	101176	9427	110604	15990	14904	89		
40	Jhansi	36077	4246	7258	16940	64522	3226	61296	37904	3802	41706	4380	19012	68		
41	Kannauj	34481	9287	3845	20444	68057	3403	64654	39804	3238	43042	4635	24210	67		
42	Kanpur Dehat	53789	14055	0	23613	91458	4573	86885	55181	3793	58974	5565	26139	68		
43	Kanpur Nagar	48714	11846	0	22374	82934	4147	78787	56225	10375	66601	24734	0	85		
44	Kasganj	27819	12595	4718	18766	63898	5807	58090	55147	2658	57805	4206	4026	100		
45	Kaushambhi	37495	7631	1472	8897	55494	5549	49945	42184	3298	45482	5051	6575	91		
46	Kushi Nagar	89472	32475	11618	41692	175257	8763	166495	71076	7644	78720	14300	81120	47		
47	Lakhimpur Kheri	144565	37590	39274	78139	299568	14978	284590	169197	8240	177437	15233	100160	62		
48	Lalitpur	27587	4824	5604	13695	51709	2585	49124	27215	3056	30271	3512	18397	62		
49	Lucknow	37945	11883	0	17872	67700	3385	64315	39879	4232	44110	8375	16062	69		
50	Maharajganj	56730	20125	14733	26478	118066	5903	112163	63577	5760	69337	10069	38516	62		
51	Mahoba	13128	1222	0	3614	17965	1796	16168	16639	1496	18135	2675	23	112		
52	Mainpuri	43035	16922	7561	32565	100084	8501	91583	74933	3612	78546	5280	14890	86		
53	Mathura	40265	24647	7051	44494	116457	11646	104812	92384	4003	96387	6190	22239	92		
54	Maunath Bhanjan	30417	6603	6224	7594	50838	2542	48296	29635	4125	33759	7289	11372	70		
55	Meerut	47580	27422	5742	45769	126513	11353	115160	77433	3381	80814	4636	33560	70		
56	Mirzapur	39704	11376	0	12274	63354	5535	57819	30919	5150	36070	10388	16889	62		
57	Moradabad	56377	12133	6964	15468	90941	8245	82697	65493	4668	70161	7744	13956	85		
58	Muzaffarnagar	51273	17292	9560	30232	108357	10218	98139	60527	4718	65246	7644	36019	66		
59	Pilibhit	90623	18995	0	26764	136382	12452	123930	76128	3846	79974	6034	41768	65		
60	Pratapgarh	72982	16173	12766	20501	122422	6778	115645	128377	34556	162933	44922	28204	141		
61	Raebarely	42628	15568	7884	23772	89852	4493	85359	57189	4943	62132	8313	19857	73		
62	Rampur	47689	10053	5521	14577	77840	7784	70056	70689	4014	74703	7026	7053	107		
63	Saharanpur	71478	24900	12021	37966	146365	13284	133081	171402	5523	176925	8804	0	133		
64	Sambhal	45853	7644	5124	12481	71103	7110	63993	65636	4095	69732	6459	1718	109		
65	Sant Kabeer Nagar	50201	6318	12692	8673	77885	6683	71202	44391	3377	47768	5628	21183	67		
66	Sant Ravidas Nagar	24920	8916	0	10577	44413	4441	39972	33608	3373	36980	6390	473	93		
67	Shahjahnpur	103531	15180	10931	20921	150562	13295	137267	76348	5268	81616	7772	53147	59		
68	Shamli	20672	8905	4384	13102	47063	4706	42357	56694	2636	59331	3841	447	140		
69	Shrawasti	28955	3416	6988	5875	45234	3124	42110	27376	2239	29615	4315	10419	70		
70	Siddhth Nagar	104481	13407	22838	19393	160120	14848	145272	87581	5727	93308	9986	47705	64		
71	Sitapur	124772	38248	9141	74188	246350	12317	234032	155285	9190	164475	14167	64580	70		
72	Sonbhadra	18494	3239	0	1420	23153	2047	21106	7620	1480	9100	6706	6780	43		
73	Sultanpur	52243	27371	2932	32534	115081	10539	104541	70793	5300	76092	9222	24526	73		
74	Unnao	92496	35570	7583	56837	192486	17043	175443	108387	6163	114550	10001	57054	65		
75	Varanasi	37096	7270	0	9628	53994	5399	48595	36338	5590	41928	11852	3402	86		
State total (ham)		4212738	1156994	515585	1833679	7718996	553211	7165785	4873956	403789	5277745	655313	1963555	74		
StateTotal (bcm)		42.13	11.57	5.15	18.34	77.19	5.53	71.66	48.74	4.04	52.78	6.55	19.64	74		

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
UTTRAKHAND**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	Dehradun	28304	1344	5185	1782	36614	156	36458	4292	215	4507	4061	28105	12		
2	Hardwar	22058	15348	5932	30839	74177	3074	71103	38104	1411	39515	2294	30705	56		
3	Nainital	7713	546	1176	983	10418	76	10341	4369	87	4456	241	5731	43		
4	Udham Singh Nagar	51388	8455	7703	15279	82825	1187	81639	63566	1271	64837	2747	15326	79		
State Total (ham)		109463	25692	19996	48884	204034	4493	199541	110330	2984	113315	9343	79868	57		
State Total (bcm)		1.09	0.26	0.20	0.49	2.04	0.04	2.00	1.10	0.03	1.13	0.09	0.80	57		

Note: Assessment carried out in the valley areas of 4 districts out of total 13 districts in the State since rest of the areas are predominantly hilly

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
WEST BENGAL**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	Malda	98062	26189	8413	21102	153766	13854	139912	49349	6129	55478	9423	81140	40		
2	Nadia	101137	45261	17298	44931	208627	17533	191095	168092	7923	176016	10348	12654	92		
3	Kochbihar	186567	72428	4735	11049	274778	27478	247301	37722	4327	42049	5827	203752	17		
4	North 24 Parganas	101900	29335	7576	23718	162530	14959	147570	78061	14044	92104	18559	50951	62		
5	Dakshin Dinajpur	72030	19662	6151	17206	115049	11505	103544	45253	2562	47814	3276	55015	46		
6	Uttar Dinajpur	123119	31595	7188	23230	185131	13839	171293	74202	4600	78802	7237	89853	46		
7	Bankura	91833	27820	20483	29169	169305	15568	153736	56995	4586	61581	7181	89560	40		
8	Purulia	46951	13027	7942	4650	72569	6612	65957	1456	4489	5944	6220	58281	9		
9	Jalpaiguri	204758	61381	3840	11850	281830	28183	253647	7132	4278	11410	5751	240764	4		
10	Bardhaman	185096	52724	12416	32365	282601	24719	257882	82336	9383	91719	15393	160154	36		
11	Murshidabad	135790	44175	17016	45125	242107	19848	222259	165522	9871	175392	16623	40114	79		
12	Birbhum	76316	20237	7257	14917	118728	11049	107679	32297	3825	36121	7537	67846	34		
13	Howrah	14807	5416	1165	6865	28254	1879	26375	4561	2149	6710	5507	16307	25		
14	Darjeeling	37197	10226	871	1279	49573	4957	44616	799	1436	2235	1956	41861	5		
15	Hoogly	91552	26354	6476	22506	146888	13994	132895	52750	7038	59787	10471	69674	45		
16	Paschim Medinipur	231961	70757	11561	38487	352767	32843	319924	95196	7714	102910	12536	212193	32		
17	Purba Medinipur	53801	15030	1902	9873	80606	8061	72545	20226	2960	23186	4216	48102	32		
	State total (ham)	1852876	571618	142289	358325	2925107	266879	2658228	971947	97313	1069260	148060	1538221	40		
	StateTotal (bcm)	18.53	5.72	1.42	3.58	29.25	2.67	26.58	9.72	0.97	10.69	1.48	15.38	40		

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
ANDAMAN & NICOBAR**

Sl. No.	District	Annual Replenishable Ground Water Resource				Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial uses upto 2025	Net Ground Water Availability for Future Irrigation use	Stage of Ground Water Development (%)		
		Monsoon Season		Non Monsoon Season				Irrigation	Domestic & Industrial Water Supply	Total					
		Recharge from Rainfall	Recharge From Other Sources	Recharge from Rainfall	Recharge From Other Sources										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	Andaman Nicobar	26183	Nil	4621	Nil	30804	2156	28648	63	1208	1271	1375	27209	4.44	
	UT Total (ham)	26183	Nil	4621	Nil	30804	2156	28648	63	1208	1271	1375	27209	4.44	
	UT Total (bcm)	0.262	Nil	0.046	Nil	0.308	0.022	0.286	0.001	0.012	0.013	0.014	0.272	4.44	

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
CHANDIGARH**

Sl. No.	District	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	Chandigarh UT	1545	62	488	61	2156	216	1940	0	0	0			0		
	UT Total (ham)	1545	62	488	61	2156	216	1940	0	0	0	0	0	0		
	UT Total (bcm)	0.015	0.001	0.005	0.001	0.022	0.002	0.019	0.00	0.00	0.00	0.00	0.000	0		

Note: Ground water draft is through deep tubewells tapping confined aquifer

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
DADRA & NAGAR HAVELI**

Sl. No.	District	Annual Replenishable Ground Water Resource				Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial uses upto 2025	Net Ground Water Availability for Future Irrigation use	Stage of Ground Water Development (%)		
		Monsoon Season		Non Monsoon Season				Irrigation	Domestic & Industrial Water Supply	Total					
		Recharge from Rainfall	Recharge From Other Sources	Recharge from Rainfall	Recharge From Other Sources										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	UT of Dadra & Nagar Ha	4265	347	941	663	6216	311	5905	724	563	1287	997	4185	22	
	UT Total (ham)	4265	347	941	663	6216	311	5905	724	563	1287	997	4185	22	
	UT Total (bcm)	0.043	0.003	0.009	0.007	0.062	0.003	0.059	0.007	0.006	0.013	0.010	0.042	22	

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
DAMAN & DIU**

Sl. No.	Union Territory	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	Daman	978	122	0	159	1259	63	1196	938	125	1063	235	23	89		
2	Diu	458	31	0	61	550	55	495	509	68	577	80	0	117		
UT Total (ham)		1436	153	0	220	1809	118	1691	1447	193	1640	315	23	97		
UT Total (bcm)		0.014	0.002	0.000	0.002	0.018	0.001	0.017	0.014	0.002	0.016	0.003	0.000	97		

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
LAKSHADWEEP ISLANDS**

Sl. No.	Islands	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	Agatti	-	-	-	-	108	72	35		28	28	-	-	78		
2	Amini	-	-	-	-	103	69	34		28	28	-	-	82		
3	Androth	-	-	-	-	193	130	62		41	41	-	-	66		
4	Chetlat	-	-	-	-	41	28	14		9	9	-	-	63		
5	Kadmat	-	-	-	-	124	83	41		20	20	-	-	48		
6	Kalpeni	-	-	-	-	91	61	30		16	16	-	-	54		
7	Kiltan	-	-	-	-	65	43	22		14	14	-	-	67		
8	Kavaratti	-	-	-	-	144	96	48		41	41	-	-	85		
9	Minicoy	-	-	-	-	186	122	64		38	38	-	-	59		
UT Total (ham)		0	0	0	0	1055	705	350	0	234	234	0	0	67		
UT Total (bcm)		0	0	0	0	0.011	0.007	0.0035	0.000	0.0023	0.0023	0.000	0.000	67		

**GROUND WATER RESOURCES AVAILABILITY, UTILIZATION AND STAGE OF DEVELOPMENT
PUDUCHERRY**

Sl. No.	Region	Annual Replenishable Ground Water Resource					Natural Discharge During Non Monsoon Period	Net Ground Water Availability	Annual Ground Water Draft			Projected demand for Domestic and Industrial 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	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
1	Puducherry	6561	1925	575	2337	11398	1140	10258	11838	2392	14230	2732	-	139		
2	Karaikal	2090	4047	241	880	7258	729	6529	537	388	924	353	5642	14		
3	Mahe	246	0	24	0	270	27	243	0	150	150	154	89	62		
4	Yanam							saline								
UT Total (ham)		8897	5972	840	3217	18927	1896	17031	12375	2929	15304	3240	5732	90		
UT Total (bcm)		0.089	0.060	0.008	0.032	0.189	0.019	0.170	0.124	0.029	0.153	0.032	0.057	90		

ANNEXURE – III

CATEGORIZATION OF BLOCKS/ MANDALS/ TALUKS IN INDIA (AS ON 31st MARCH 2011)

CATEGORIZATION OF BLOCKS/ MANDALS/ TALUKAS IN INDIA (2010-2011)

Sl. No.	States / Union Territories	Total No. of Assessed Units	Safe		Semi-critical		Critical		Over-exploited		Saline	
			Nos.	%	Nos.	%	Nos.	%	Nos.	%	Nos.	%
States												
1	Andhra Pradesh	1110	877	79	97	9	15	1	83	7	38	3
2	Arunachal Pradesh	11	11	100	0	0	0	0	0	0	0	0
3	Assam	27	27	100	0	0	0	0	0	0	0	0
4	Bihar	533	522	98	11	2	0	0	0	0	0	0
5	Chattisgarh	146	125	86	18	12	2	1	1	1	0	0
6	Delhi	27	2	7	5	19	2	7	18	67	0	0
7	Goa	20	20	100	0	0	0	0	0	0	0	0
8	Gujarat	223	171	77	13	6	5	2	24	11	10	4
9	Haryana	116	23	20	7	6	15	13	71	61	0	0
10	Himachal Pradesh	8	5	63	0	0	2	25	1	13	0	0
11	Jammu & Kashmir	14	14	100	0	0	0	0	0	0	0	0
12	Jharkhand	210	199	95	5	2	0	0	6	3	0	0
13	Karnataka	270	152	56	34	13	21	8	63	23	0	0
14	Kerala	152	126	83	23	15	2	1	1	1	0	0
15	Madhya Pradesh	313	218	70	67	21	4	1	24	8	0	0
16	Maharashtra	353	325	92	16	5	2	1	10	3	0	0
17	Manipur	8	8	100	0	0	0	0	0	0	0	0
18	Meghalaya	7	7	100	0	0	0	0	0	0	0	0
19	Mizoram	22	22	100	0	0	0	0	0	0	0	0
20	Nagaland	8	8	100	0	0	0	0	0	0	0	0
21	Orissa	314	308	98	0	0	0	0	0	0	6	2
22	Punjab	138	22	16	2	1	4	3	110	80	0	0
23	Rajasthan	243	25	10	20	8	24	10	172	71	2	1
24	Sikkim	4	4	100	0	0	0	0	0	0	0	0
25	Tamil Nadu	1129	437	39	235	21	48	4	374	33	35	3
26	Tripura	39	39	100	0	0	0	0	0	0	0	0
27	Uttar Pradesh	820	559	68	82	10	68	8	111	14	0	0
28	Uttaranchal	18	11	61	5	28	2	11	0	0	0	0
29	West Bengal	271	217	80	53	20	1	0	0	0	0	0
	Total States	6554	4484	68	693	11	217	3	1069	16	91	1
Union Territories												
1	Andaman & Nicobar	36	36	100	0	0	0	0	0	0	0	0
2	Chandigarh	1	1	100	0	0	0	0	0	0	0	0
3	Dadra & Nagar Haveli	1	1	100	0	0	0	0	0	0	0	0
4	Daman & Diu	2	0	0	1	50	0	0	1	50	0	0
5	Lakshdweep	9	6	67	3	33	0	0	0	0	0	0
6	Pondicherry	4	2	50	0	0	0	0	1	25	1	25
	Total Uts	53	46	87	4	8	0	0	2	4	1	2
	Grand Total	6607	4530	69	697	11	217	3	1071	16	92	1

Note

Blocks- Bihar, Chattisgarh, Haryana, Jharkhand, Kerala, M.P., Manipur, Mizoram, Orissa, Punjab, Rajasthan, Tripura, UP, Uttarakhand, WB
Taluks (Command/Non-Command) -Karnataka

Mandal - Andhra Pradesh

Taluks - Goa, Gujarat, Maharashtra

Districts (Valley) - Arunachal Pradesh, Assam, Himachal Pradesh, Jammu & Kashmir, Meghalaya, Mizoram, Nagaland, Sikkim, Tripura

Islands - Lakshdweep, Andaman & Nicobar Islands

Firka-Tamil Nadu

Region - Puducherry

UT - Chandigarh, Dadar & Nagar Haveli, Daman & Diu

Tehsil-NCT Delhi

ANNEXURE – IV

STATE-WISE CATEGORIZATION OF BLOCKS/ MANDALS/ TALUKS (AS ON 31st MARCH 2011)

***Please note that the district wise break up of states in which all the assessment units have been categorised as ‘Safe’ are not included in this annexure.**

CATEGORIZATION OF MANDALS IN ANDHRA PRADESH

SI. NO.	DISTRICT	SEMI-CRITICAL	CRITICAL	OVER EXPLOITED	Saline
1	Adilabad	1 Bhainsa 2 Chennur 3 Dandepally 4 Dilwarpur 5 Laxmanchanda 6 Lokeshwaram 7 Luxettipet		1 Nirmal	
2	Anantapur	1 Beluguppa 2 Bukkapatnam 3 Dharmavaram 4 Garladinne 5 Gudibanda 6 Gummagatta 7 Kanaganapalli 8 Kudair 9 Narpala 10 O.D.Cheruvu 11 Penukonda 12 Puttaparthi 13 Raptadu 14 Rayadurg 15 Somandepalli 16 Tanakallu	1 Roddam 2 Talupula	1 Agali 2 Amadaguru 3 Amarapuram 4 Bathalapalli 5 Brahmasamudram 6 Gandlapenta 7 Hindupur 8 Kalyandurg 9 Kambadur 10 Kothacheruvu 11 Kundurpi 12 Lepakshi 13 Madakasira 14 Parigi 15 Peddapappur 16 Putlur 17 Rolla 18 Tadimarri 19 Tadipatri 20 Yadiki 21 Yellanur	
3	Chittoor	1 Bairedypalli 2 CGGallu 3 Chittoor 4 Chowdepalli 5 G.D.Nellore 6 Gangavaram 7 Irala 8 Madanapalli 9 Nimmanapalli 10 Palamaneru 11 Pedda Thippa Samudram 12 Peddapanjani 13 Piler 14 V.Kota 15 Vijayapuram 16 Yadamarri	1 Gudupalli 2 Karvetinagaram 3 Palasamudram 4 Pulicherla 5 Punganur	1 Nindra 2 Pakala 3 Penumuru 4 Puthalapattu 5 R.C.Puram 6 Ramakuppam 7 Ramasamudram 8 S R Puram 9 Santhipuram 10 Thavanampalli 11 Tirupathi®	
4	Ease Godavari	1 Gandepalli			1 Allavaram 2 Ipolavaram 3 Kajuluru 4 Karapa 5 Katrenikona 6 Mamidikuduru 7 Sakhinetipalli 8 Tallarevu 9 Uppalaguptam 10 Malkipuram
5	Hyderabad		1 Hyderabad		
6	Kadapa	1 Kalasapadu 2 Kamalapuram 3 Pendlimari 4 Pullampeta 5 Vallur	1 Pulivendula 2 Vemula		
7	Khammam		1 Tirumalalayapelm		
8	Krishna	1 Nuzvid	1 Musunuru		1 Nandiwada 2 Mandavalli 3 Kaikaluru 4 Kalidindi 5 Kruthivennu 6 Bantumilli 7 Mudinepalli 8 Gudlavalleru 9 Pedana 10 Machilipatnam 11 Guduru 12 Koduru 13 Nagayalanka

CATEGORIZATION OF MANDALS IN ANDHRA PRADESH

SI. NO.	DISTRICT	SEMI-CRITICAL	CRITICAL	OVER EXPLOITED	Saline
9	Karimnagar	1 Chandurthy 2 Elkathurthy 3 Siricilla 4 Velagatur		1 Bheemadevarapally 2 Chigurumamidi 3 Gangadhara 4 Husnabad 5 Kathalapur 6 Keshavapatnam 7 Kodimyal 8 Mallial 9 Medipally 10 Mustabad 11 Ramadugu	
10	Mehboobnagar	1 Kalwakurthy 2 Keshampeta	1 Midjil		
11	Medak	1 Doulthabad 2 Jagdevpur 3 Kowdipally 4 Kulcharam 5 Ramayampet 6 Shivampet 7 Tekmal	1 Chegunta	1 Chinnakodur 2 Dubbak 3 Hathnura 4 Kalher 5 Kondapak 6 Mirdoddi 7 Mulugu 8 Nanganur 9 Narsapur 10 Nyalkal 11 Raikode 12 Siddipet 13 Thoguta 14 Wargal	
12	Nalgonda	1 Rajapet 2 Alair 3 Thirumalgiri 4 Jajireddi Gudem 5 Valigonda 6 Nakrekal 7 Kethepalle 8 Suryapet 9 Mothey 10 Kanagal	1 Chandur	1 Munugode	
13	Nizamabad	1 Armoor 2 Balkonda 3 Bheemgal 4 Domakonda 5 Machareddy 6 Makloor 7 Morthad 8 Nandipet	1 Jakranpally	1 Kamareddy 2 Sadashivanagar 3 Velpoor	
14	Prakasam	1 Cumbum 2 Komarole		1 Dornala 2 Giddaluru 3 Markapuram 4 Peddaraveedu 5 Racherla 6 Y.Palem	1 Karamchedu
15	Ranga Reddy	1 Ibrahimpatnam_Rrd 2 Kandukur 3 Maheshwaram 4 Manchal 5 Medchal 6 Pargi 7 Shabad 8 Shamshabad 9 Shankarpally 10 Yacharam			
16	West Godavari	1 Lingapalem			1 Penumantra 2 Palakkolu 3 Ganapavaram 4 Poduru 5 Palakoderu 6 Veeravasaram 7 Nidamarru 8 Pentapadu 9 Akiveedu 10 Undi 11 Mogalturu 12 Kalla

CATEGORIZATION OF MANDALS IN ANDHRA PRADESH

SI. NO.	DISTRICT	SEMI-CRITICAL	CRITICAL	OVER EXPLOITED	Saline
16	West Godavari				13 Narasapuram 14 Bhimavaram
17	Warangal	1 Cherial 2 Devaruppula 3 Dharmasagar 4 Nellikudur 5 Parvtagiri 6 Stn Ghanpur 7 Zafferghad	1 Lingala Ghanpur 2 Mogullapally 3 Narmetta 4 Raghunathpally	1 Bachannapet 2 Chennaraopet 3 Duggondi 4 Geesugonda 5 Jangaon 6 Kodakandla 7 Maddur_Wgl 8 Rayaparthy 9 Thorur 10 Wardhannapet	

ABSTRACT

No. of Assessed Blocks	Semi Critical	Critical	Over-exploited	Saline
1110	97	15	83	38

CATEGORISATION OF BLOCKS IN BIHAR

Sl.no.	District	Semi-critical	Critical	Over-exploited	Saline
1	Araria				
2	Arwal	1	Kurtha		
3	Aurangabad				
4	Banka				
5	Begusarai	1	Birpur		
		2	Naokothi		
6	Bhabhua				
7	Bhagalpur				
8	Bhojpur				
9	Buxar				
10	Darbhanga				
11	E.Champaran				
12	Gaya	1	Gaya sadar		
13	Gopalganj				
14	Jamui				
15	Jehanabad				
16	Katihar				
17	Khagaria				
18	Kishanganj				
19	Lakhisarai				
20	Madhepura				
21	Madhubani				
22	Munger				
23	Muzaffarpur	1	Mushahari		
		1	Nagarnausa		
24	Nalanda	2	Rajgir		
25	Nawada	1	Meskaur		
26	Patna	1	Sampatchak		
		2	Masaurhi		
27	Purnea				
28	Rohtas				
29	Saharsa				
30	Samastipur	1	Tajpur		
31	Saran				
32	Sheikhpura				
33	Sheohar				
34	Sitamarhi				
35	Siwan				
36	Supaul				
37	Vaishali				
38	West Champaran				

ABSTRACT

No. of Assessed Blocks	Semi Critical	Critical	Over-exploited	Saline
533	11	0	0	Nil

CATEGORIZATION OF BLOCKS IN CHHATTISGARH

Sl. No.	District	Semi-critical	Critical	Over-exploited	Saline
1	Bilaspur	1 Belha 2 Takhatpur			
2	Dhamtari	1 Kurud 2 Nagri	1 Dhamtari		
3	Durg	1 Balod 2 Bemetara 3 Dhamdha 4 Durg 5 Patan 6 Saja		1. Gurur	
4	Janjir Champa	1 Malkharoda			
5	Kawardha	1 Kawardha 2 Pandariya			
6	Raigarh	1 Pussore	1 Baramkela		
7	Raipur	2 Dharsiwa 3 Fingeswar			
8	Rajnandgaon	1 Dongargaon 2 Rajnandgaon			

ABSTRACT

No of Assessed Blocks	Semi Critical	Critical	Over Exploited	Saline
146	18	2	1	Nil

CATEGORIZATION OF TEHSILS IN DELHI

Sl. No.	District	Semi-critical	Critical	Over-exploited	Saline
1	Central			Karol Bagh Pahar Ganj Preet Vihar	
2	East	1 Gandhi Nagar		2 Vivek Vihar	
3	New Delhi		1 Chanakya Puri 2 Parliament Street		
4	North	1 Connaught Place		Kotwali Sadar Bazar Seema Puri Shahdara Model Town Saraswati Vihar Defence Colony Hauz Khas Kalkaji Delhi Cantonment Najafgarh Vasant Vihar	
5	North East	1 Seelam Pur			
6	North West	1 Narela			
7	South				
8	South West				
9	West	1 Punjabi Bagh		Patel Nagar Rajouri Garden	

ABSTRACT

No. of Assessed Tehsils	Semi Critical	Critical	Over-exploited	Saline
27	5	2	18	<i>Nil</i>

CATEGORISATION OF TALUKS IN GUJARAT

Sl. NO.	District	Semi Critical	Critical	Over-Exploited	Saline
1	Ahmedabad	1 Detroj Rampur 2 Viramgam 1 Khambla	1 Dholka	1 City - Daskroi	1 Dhandhuka
2	Amreli			1 Deesa 2 Deodar 3 Dhanera 4 Kankrej 5 Tharad 6 Vadgam	1 Wav 2 Bhabhar
3	Banaskantha		1 Palnapur		
4	Gandhinagar			1 Dehgam 2 Gandhinagar 3 Kalol 4 Mansa	
5	Kachchh	1 Nakhatrana	1 Bhuj 2 Anjar	1 Bhachau 2 Mandvi	1 Gandhidham
6	Kheda	1 Kapadvanj 2 Kathlal 3 Mahemdabad			
7	Mahesana		1 Vadnagar	1 Becharaji 2 Kadi 3 Kheralu 4 Mahesana 5 Sattasan 6 Visanagar 7 Vijapur 8 Unjha	
8	Patan			1 Chanasma 2 Patan 3 Sidhpur	1 Harij 2 Sami 3 Rantanpur 4 Santhalpur
9	Pobandar	1 Porbandar			
10	Rajkot				1 Maliya
11	Sabarkantha	1 Prantij 2 Talod 3 Idar 4 Vadali			
12	Surendranagar				
13	Vadodara	1 Vadodara			1 Lakhtar

ABSTRACT

No. of Assessed Units	Semi Critical	Critical	Over-exploited	Saline
223	13	5	24	10

CATEGORISATION OF BLOCKS IN HARYANA

Sl. No.	District	Semi critical	Critical	Over exploited	Saline
1	Ambala		1 Shazadpur	1 Barara 2 Naraingarh 3 Saha	
2	Panchkula		1 Pinjore 2 Raipur Rani 3 Barwala		
3	Fatehabad		1 Bhattu Kalan	1 Fatehabad 2 Ratia 3 Tohana 4 Jakhal 5 Bhuna	
4	Bhiwani	1 Dadri-II		1 Badra 2 Dadri-I 3 Kairu 4 Loharu 5 Siwani	
5	Hissar	1 Uklana		1 Narnaund Hansi-II	
6	Gurgaon			1 Farukhnagar 2 Gurgaon 3 Pataudi 4 Sohna	
7	Mewat	1 Punhana	1 Ferozepur Zhirka 2 Nuh	Tauru	
8	Faridabad		1 Ballabhbgarh 2 Faridabad		
9	Palwal		1 Hathrin 2 Hodel	1 Hassanpur 2 Palwal	
10	Jhajjar	1 Bhadurgarh			
11	Jind	1 Pilukhera	1 Uchana	1 Alewa 2 Narwana 3 Safidon 4 Jind	
12	Kaithal			1 Gulha 2 Kaithal 3 Kalyat 4 Pundri 5 Rajaund	
13	Karnal			1 Assandh 2 Gharaunda 3 Indri 4 Karnal 5 Nilokheri 6 Nissang	

CATEGORISATION OF BLOCKS IN HARYANA

Sl. No.	District	Semi critical	Critical	Over exploited	Saline
14	Kurukshetra			1 Babain 2 Ladwa 3 Pehowa 4 Shahbad 5 Thaneswar	
15	Mahendragarh			1 Ateli 2 Kanina 3 Mahendragarh 4 Nangal Chaudary 5 Narnaul	
16	Panipat			1 Bapoli 2 Israna 3 Madlauda 4 Panipat 5 Samalkha	
17	Rewari		1 Jatusana	1 Khol 2 Nahar 3 Rewari 4 Bawal	
18	Rohtak	1 Lakhman Majra			
19	Sirsia			1 Ellenabad 2 Rania 3 Sirsa 4 Ns Chopta 5 Baraguda 6 Odhan 7 Dabwali	
20	Sonepat	1 Kharkhoda	1 Gohana	1 Ganaur 2 Rai 3 Sonepat	
21	Yamunanagar		1 Sadhuara	4 Chachrauli 5 Jagadhri 6 Mustafabad 7 Radour 8 Bilaspur	

ABSTRACT

No. of block Assessed	Semi critical	Critical	Over-exploited	Saline
116	7	15	71	Nil

CATEGORIZATION OF VALLEY IN HIMACHAL PRADESH

Sl. No.	DISTRICT	Semi-critical	Critical	Over-exploited	Saline
1	Sirmaur			1	Kala Amb Valley
2	Una		1 Una Valley		
3	Una		2 Hum Valley		

ABSTRACT

No. of Assessed VALLEY	Semi Critical	Critical	Over-exploited	Saline
8	0	2	1	Nil

CATEGORIZATION OF BLOCKS IN JHARKHAND

Sl. No.	District	Semi-critical	Critical	Over-exploited	Saline
1	Bokaro	1	Chas		
2	Chatra				
3	Deoghar				
4	Dhanbad			1 Jharia 2 Dhanbad	
5	Dumka				
6	E-Singhbhum			1 Jamshedpur Sadar	
7	Garhwa				
8	Giridih				
9	Godda			1 Godda	
10	Gumla				
11	Hazaribagh				
12	Jamtara				
13	Khunti				
14	Koderma				
15	Latehar				
16	Lohardaga	1	Lohardaga		
17	Pakur				
18	Palamu				
19	Ramgarh			1 Ramgarh	
20	Ranchi	1	Ratu 2 Ormanjhi	1 Kanke	
21	Sahebganj				
22	Saraikela	1	Gumharia		
23	Simdega				
24	W-Singhbhum				

ABSTRACT

No. of Assessed Blocks	Semi Critical	Critical	Over-exploited	Saline
210	5	0	6	Nil

CATEGORIZATION OF TALUKAS IN KARNATAKA

SI No	Districts	Semi-critical	Critical	Over-Exploited	Saline
1	Bagalkot	1 Bilgi (NC) 2 Jamkhandi (NC)		1 Badami (C + NC) 2 Bagalkote (C + NC) 3 Hungund (NC) 4 Mudhol (NC)	
2	Bangalore Rural			1 Devenhalli (NC) 2 Dodaballapur (NC) 3 Hoskote (NC) 4 Nelamangala (NC)	
3	Bangalore Urban			1 Anekal (NC) 2 Bangalore East (NC) 3 Bangalore North (NC) 4 Bangalore South (NC)	
4	Belgaum	1 Athani (C) 2 Bailahongal (NC) 3 Saundatti (C)	1 Bailahongal (C)	1 Athani (NC) 2 Chikodi (NC) 3 Gokak (NC) 4 Hukkeri (NC) 5 Ramdurg (C + NC) 6 Raybag (NC) 7 Saundatti (NC)	
5	Bellary	1 Kudligi (NC)	1 Bellary (NC)	1 H.B.Halli (NC)	
		2	Hadagalli (NC)		
6	Bidar	1 Bhalki (NC)			
7	Bijapur	1 Basavana Bagevadi (C + NC) 2 Bijapur (NC) 3 Indi (C) 4 Muddebihal (NC) 5 Sindgi (NC)	Indi (NC)		
8	Chamrajnagara	1 Kollegal (NC) 2 Yelandur (C + NC)	1 Chamrajnagara (NC)	1 Gundlupet (NC)	
9	Chikballapur		1 Bagepalli (NC)	1 Chikballapur (NC) 2 Chintamani (NC) 3 Gauribidalu (NC) 4 Gudibanda (NC) 5 Sidlaghatta (NC)	
10	Chikmagalur	1 Tarikere (NC)		1 Kadur (NC)	
11	Chitradurga		1 Hosadurga (NC)	1 Challakere (NC) 2 Chitradurga (NC) 3 Hiriyur (NC) 4 Holalkere (NC)	
12	Dakshin Kannada		1 Puttur (NC)		
13	Davangere	1 Channagiri (C) 2 Honnalli (NC)	1 Harihar (NC)	1 Channagiri (NC) 2 Davangere (NC) 3 Harpanahalli (NC) 4 Jagalur (NC)	
14	Dharwad	1 Navalgund (NC)			
15	Gadag	1 Gadag (C) 2 Mundargi (NC) 3 Nargund (C) 4 Ron (C)		1 Gadag (NC) 2 Ron (NC)	
16	Hassan		1 Hassan (NC)	1 Arsikere (NC) 2 C R Patna (NC) 3 Holenarsipur (NC)	
17	Haveri	1 Haveri (NC) 2 Hirekerur (NC)	1 Byadgi (NC)		
			2 Ranibennur (NC)		
18	Kolar			1 Bangarpet (NC) 2 Kolar (NC) 3 Malur (NC) 4 Mulbagal (NC) 5 Srinivaspur (NC)	
19	Koppal		1 Yelbarga (NC)	1 Gangawati (NC) 2 Koppal (NC)	
20	Mandyā	1 Nagamangala (NC)	1 Maddur (NC)	1 Krishnarajpet (NC) 2 Malavalli (NC) 3 Mandyā (NC) 4 Pandavapura (NC)	
21	Mysore	1 Mysore (NC)	1 Nanjangud (NC)	1 Krishnrajanagara (NC)	
		2	Tirumakudal narsipur (NC)		
22	Raichur	1 Lingsugur (NC) 2 Raichur (NC)			
23	Ramanagaram		1 Channapatana (NC)	1 Kanakapura (NC)	
			2 Magadi (NC)	2 Ranmanagaram (NC)	
24	Shimoga	1 Bhadravati (NC)			

CATEGORIZATION OF TALUKAS IN KARNATAKA

SI No	Districts	Semi-critical	Critical	Over-Exploited	Saline
25	Tumkur	1 Pavagada (NC)	1 Gubbi (NC) 2 Kunigal (NC) 3 Sira (NC)	1 Chicknayakanhalli (NC) 2 Koratagere (NC) 3 Madhugiri (NC) 4 Tiptur (NC) 5 Tumkur (NC) 6 Turuvekere (NC)	
26	Yadgir	1 Shahpur (NC) 2 Yadgir (NC)			

ABSTRACT

No. of Assessed Blocks	Semi Critical	Critical	Over-exploited	Saline
270	34	21	63	Nil

176 taluks have been divided into Command and Non-command, thus adding up to 270 assessment units. Out of 270 assessment units, there are 5 taluks where both Command and Non-command units are falling in the same category and are shown as C+NC. Hence the whole taluk is categorized as OE or Semicritical without separate mention in the table. Even though 63 over exploited and 34 Semi critical units are present in the state, only 60 and 32 units are

CATEGORIZATION OF BLOCKS IN KERALA

Sl. No.	District	Semi-critical	Critical	Over-exploited	Saline
1	Alappuzha				
2	Ernakulam	1 Parakkadavu 2 Paravoor 3 Vypin			
3	Idukki	1 Kattappana 2 Nedumkandam			
4	Kannur	1 Kalyasseri 2 Panur			
5	Kasargod	1 Kanhangad 2 Karadka 3 Manjeswar	1	Kasargod	
6	Kollam	1 Chittumala			
7	Kottayam				
8	Kozhikode	1 Balusseri 2 Kunnamangalam			
9	Malappuram	1 Kondotty 2 Tanur 3 Tirurangadi			
10	Palakkad	1 Pattambi 2 Thrithala	1	Malampuzha	1
11	Pathanamthitta				
12	Thiruvananthapuram	1 Athiyannur 2 Nedumangad 4 Parassala			
13	Thrissur	1 Mathilakam 2 Thalikkulam			
14	Waynad				

ABSTRACT

No. of Assessed Blocks	Semi Critical	Critical	Over-exploited	Saline
152	23	2	1	Nil

CATEGORIZATION OF BLOCKS IN MADHYA PRADESH

Sl. No.	District	Semi-critical	Critical	Over-exploited	Saline
1	Barwani	1 Rajpur 2 Thikri		1 Pansemal	
2	Betul	1 Békul			
3	Bhopal	1 Berasia 2 Phanda			
4	Buhanpur	1 Burhanpur			
5	Chhatarpur	1 Badamalhara 2 Buxwaha 3 Chhatarpur 4 Nowgaon 5 Rajnagar			
6	Chhindwara	1 Chhindwara			
7	Damoh	1 Hatta 2 Pathariya			
8	Datia	1 Datia			
9	Dewas	1 Khategaon		1 Dewas 2 Sonkutch	
10	Dhar	1 Manawar 2 Tirla		1 Badnawar 2 Dhar 3 Dharampuri 4 Nalcha	
11	Guna	1 Guna			
12	Gwalior	1 Morar			
13	Indore	1 Mhow		1 Depalpur 2 Indore 3 Sanwer	
14	Jabalpur	1 Shahapura			
15	Khargone	1 Barwaha 2 Khargone 3 Mahashwar			
16	Khandwa	1 Chhegaon Makhan			
17	Mandsaur	1 Bhanpura 2 Malahargarh		1 Mandsaur 2 Sitamau	
18	Morena	1 Kailaras 2 Morena 3 Porsa 4 Sabalgarh			
19	Neemuch	1 Jawad 2 Neemuch			
20	Narsinghpur	1 ChanwarPatha 2 Gotegaon 3 Kareli	1	Narsinghpur	
21	Panna	1 Ajaygarh			
22	Rajgarh	1 Biora 2 Khilchipur 3 Narsinghgarh 4 Sarangpur			
23	Ratlam	1 Sailana		1 Alote 2 Jaora 3 Piplodha 4 Ratlam	
24	Rewa	1 Gangeo 2 Sirmour			
25	Satna	1 Maihar 2 Nagod	1	Amarpatan Sohawal	1 Rampur Baghalan
26	Sagar	1 Banda 2 Sagar	2		
27	Sehore	1 Astha 2 Sehore			
28	Shajapur	1 Barod 2 Kalapipal 3 Shajapur	1	Agar	1 Mohan Barodia 2 Nalkhera 3 Shujalpur 4 Susner

CATEGORIZATION OF BLOCKS IN MADHYA PRADESH

Sl. No.	District	Semi-critical	Critical	Over-exploited	Saline
29	Shivpuri	1 Badarwas 2 Karera 3 Khanniyadhana 4 Narwar 5 Pichor			
30	Sidhi	1 Sidhi			
31	Tikamgarh	1 Baldeogarh 2 Jatara 3 Niwari 4 Palera 5 Tikamgarh			
32	Ujjain	1 Khachrod 2 Mahidpur		1 Badnagar 2 Ghatia 3 Ujjain	

ABSTRACT

No. of Assessed Blocks	Semi Critical	Critical	Over-exploited	Saline
313	67	4	24	Nil

CATEGORIZTION OF TALUKAS IN MAHARASHTRA

Sr.No.	District	Semi-Critical	Critical	Over-exploited	Saline
1	Ahmednagar	1 Kopargaon 2 Newasa 3 Sangamner 4 Shrirampur		1 Rahata	
2	Amravati	1 Achalpur	1 Chandur Bazar	1 Daryapur 2 Morshi 3 Warud	
3	Buldhana	1 Motala		1 Jalgaon (Jamod)	
4	Jalgaon	1 Bodwad 2 Chopda 3 Parola 4 Muktainagar		1 Raver 2 Yawal	
5	Latur	1 Latur			
6	Nashik	1 Chandwad 2 Sinnar 3 Niphad		1 Deola	
7	Pune	1 Baramati 2 Purandhar			
8	Sangli		1 Kavathe Mahankal	1 Miraj	
9	Solapur			1 Malshiras	

ABSTRACT

No. of Assessed Tehsils	Semi Critical	Critical	Over-exploited	Saline
353	16	2	10	Nill

CATEGORIZATION OF BLOCK IN ODISHA

Sr.No.	District	Semi-Critical	Critical	Over-exploited	Saline
1	Bhadrak				1 Chandbali
2	Jagatsinghpur				2 Ersama
3	Kendrapara				1 Mahakalpara 2 Marshaghai 3 Rajkanika 4 Rajnagar

ABSTRACT

No. of Assessed Blocks	Semi Critical	Critical	Over-exploited	Saline
314	Nil	Nil	Nil	6

CATEGORIZATION OF BLOCKS IN PUNJAB

Sl.No.	District:	Semi-Critical	Critical	Over-Exploited	Saline
1	Amritsar			1 Ajnala 2 Chogawan 3 Harsha China 4 Jandiala 5 Majitha 6 Rayya 7 Tarsika 8 Verka	
2	Barnala			1 Barnala 2 Mahal Kalan	
3	Bathinda		1 Nathana 2 Rampura	3 Sehna 1 Phul 2 Maur	
4	Faridkot			3 Bathinda 1 Faridkot 2 Kot Kapura	
5	Fatehgarh Sahib			1 Khera 2 Sirhind 3 Amloh 4 Bassi Pathana	
6	Ferozepur			5 Khamanon 1 Fazilka 2 Ferozpur 3 Ghall Khurd 4 Guru Har Sahai 5 Jalalabad 6 Makhu 7 Mamdot 8 Zira	
7	Gurdaspur	1 Narot Jaimal Singh	1 Gurdaspur	1 Batala 2 Fatehgarh Churian 3 Kahnwan 4 Kalanaur 5 Qadian 6 Sri Hargobindpur 7 Dera Baba Nanak 8 Dhariwal	
9	Hoshiarpur	1 Talwara	1 Hoshiarpur-1	1 Dasuya 2 Garhsahnkar 3 Hazipur 4 Tanda	
10	Jalandhar			1 Adampur 2 Bhogpur 3 Rurka Kalan 4 Jalandhar-East 5 Jalandhar-West 6 Lohian 7 Nakodar 8 Nur Mahal 9 Phillaur 10 Shahkot	
11	Kapurthala			1 Nadala 2 Dhillwan 3 Kapurthala 4 Phagwara 5 Sultanpur Lodhi	
12	Ludhiana			1 Dehlon 2 Doraha 3 Jagraon 4 Khanna 5 Ludhiana 6 Mangat 7 Pakhowal 8 Raikot 9 Samrala 10 Sidhwani Bet	
13	Mansa			11 Sudhar 1 Bhikhi 2 Budhlada 3 Jhunir 4 Mansa 5 Sardulgarh	

CATEGORIZATION OF BLOCKS IN PUNJAB

Sl.No.	District:	Semi-Critical	Critical	Over-Exploited	Saline
14	Moga			1 Bagha Purana 2 Dharamkot (Kot Isa Khan) 3 Moga I 4 Moga II 5 Nihal Singh Wala -	
15	Mukatsar			1 Aur	
16	Nawan Shahr			2 Nawan Shahr 3 Banga 1 Bhuner Heri 2 Ghanaur 3 Nabha 4 Patiala 5 Rajpura 6 Samana 7 Sanaur 8 Patran 1 Chamkaur Sahib 2 Morinda 3 Nurpur Bedi	
17	Patiala			1 Dera Bassi 2 Kharar 1 Ahmedgarh 2 Andana 3 Bhiwanigarh 4 Dhuri 5 Lehraghaga 6 Maler Kotla 7 Sangrur 8 Sherpur 9 Sunam 1 Bhikhwind 2 Chola Sahib 3 Gandiwind 4 Khadur Sahib 5 Naushehra Panuan 6 Patti 7 Tarn Taran 8 Valtoha	
19	Ropar				
19	Mohali				
20	Sangrur				
20	Tarn Taran				

ABSTRACT

No. of Assessed Blocks	Semi Critical	Critical	Over-exploited	Saline
138	2	4	110	Nil

CATEGORISATION OF BLOCKS IN RAJASTHAN

Sl. No.	District	Semi-Critical	Critical	Over-Exploited	Saline
1	Ajmer	-	-	1. Arain 2. Bhinai 3. Jawaja 4. Pisangan 5. Silora 6. Srinagar 7. Kekri 8. Masuda	-
2	Alwar	-	-	1. Behror 2. Bansur 3. Kathumar 4. Kishangarh 5. Kotkasim 6. Laxmangarh 7. Mandawar 8. Neemrana 9. Rajgarh 10. Ramgarh 11. Reni 12. Tijara 13. Umrain 14. Thana ghazi	-
3	Banswara	-	-	-	-
		1. Kushalgarh	-	-	-
4	Baran	1. Kishanganj	-	1. Atru 2. Baran 3. Anta 4. Chhipabardon 5. Chhabra	-
5	Barmer	-	1. Sindri 2. Chohtan	1. Baetu 2. Balotra 3. Dhorimanna 4. Siwana 5. Sheo	-
6	Bharatpur	-	1. Bayana 2. Deeg 3. Kama 4. Nagar	1. Nadbai 2. Sewar 3. Weir 4. Roopwas 5. Kumher	-
7	Bhilwara	-	-	1. Asind 2. Banera 3. Hurda 4. Jahajpur 5. Mandal 6. Mandalgarh 7. Raipur 8. Suwana 9. Kotri 10. Sahada 11. Shahpura	-
8	Bikaner	1. Kolayat	-	1. Bikaner 2. Nokha 3. Dungargarh	Khajuwala
9	Bundi	1. K. Patan	-	1. Hindoli 2. Nainwa 3. Talera	-
10	Chittorgarh	-	-	1. Begun 2. Bhadesar 3. Bhopalsagar 4. Chittorgarh 5. Dungla 6. Gangrar 7. Kapasan 8. Nimbahera 9. Rashmi 10. Bari Sadri 11. Bhainsorghar	-

CATEGORISATION OF BLOCKS IN RAJASTHAN

Sl. No.	District	Semi-Critical	Critical	Over-Exploited	Saline
11	Churu	1.Churu 2.Ratangarh	-	1.Rajgarh 2. Sujangarh	-
12	Dausa	-	-	1. Bandikui 2. Dausa 3. Lalsot 4. Mahua 5. Sikrai	1 Taranagar
12	Dausa	-	-	-	-
13	Dholpur	-	1. Bari	1.Dholpu 2. Rajakhera 3.Baseri	-
14	Dungarpur	1. Bichhiwara 2. Dungarpur 3.Sagwara 4.Simalwara	-	-	-
15	Ganganagar	-	-	-	-
16	Hanumangarh	-	-	-	-
17	Jaipur	1.Phagi	-	1. Amer 2. Bairath 3. Bassi 4. Chaksu 5. Govindgarh 6. JamwaRamgarh 7.Jhotwara 8.Kotputli 9.Sambher 10.Sanganer 11Shahpura 12.Dudu	-
18	Jaisalmer	-	1. Sam	1. Jaisalmer 2. Sankra	-
19	Jalore	-	-	1.Ahore 2.Bhinmal 3.Jalore 4. Jaswantpura 5. Raniwara 6 Chitalwana 7. Sanchore 8. Sayla	-
20	Jhalawar	-	Khanpur/94.17	1. Manohar Thana 2. Pirawa 3.Bakani 4.Dag 5.J.Patan	-
21	Jhunjhunu	-	-	1.Buhana 2.Chirawa 3.Jhunjhunu 4. Khetri 5.Nawalgarh 6.Surajgarh 7.Udaipurwati 8. Alsesar	-
22	Jodhpur	1. Luni	-	1.Balesar 2.Bhopalgarh 3..Bilara 4. Mandore 5. Osian 6.Baori 7.Shergarh 8.Phalodi	-
23	Karauli	-	1. Nadauti 2.Karauli	1.Hindaun 2. Sapotra 3.Todabhim	-
24	Kota	1.Itawa	-	-	-

CATEGORISATION OF BLOCKS IN RAJASTHAN

CATEGORIZATION OF BECGRS IN RAJASTHAN				
Sl. No.	District	Semi-Critical	Critical	Over-Exploited
		2.Ladpura 3.Sultangpur	-	1. Khairabad
		-	-	2. Sangod
25 Nagaur		-	1. Nagaur 2.Ladnu	1. Degana 2. Didwana 3. Kuchaman 4. Merta 5. Mundwa 6.Parbatsar 7. Riyani 8.Makrana 9.Jayal
26 Pali	1.Pali	-	1.Rohat 2.Sumerpur	1. Jaitaran 2. Marwar Jn 3. Rani 4. Sojat 5.Raipur 6.Bali 7.Desuri 1.Dharyawad
27 Pratapgarh		-	-	1.Pratapgarh 2. Chhoti Sadri
28 Rajsamand		-	-	3.Amod 1. Amet 2. Bhim 3. Deogarh 4. Khamnor 5. Kumbhalgarh 6.Railmagra 7.Rajsamand
29 SawaiMadhopur		-	-	1. Gangapur 2. SawaiMadhopur 3.Bamanwas 4.Khandar 5.Bonli
30 Sikar	1. Fatehpur	-	-	1.Danta Ramgarh 2.Dhod 3. Khandella 4. Lachhmangarh 5.Neem Ka Thana 6. Piprali 7.Sri Madhopur
31 Sirohi		-	1.Abu Road 2.Pindwara	1. Reodar 2. Sheoganj 3. Sirohi
32 Tonk	1.Todaraisingh 2.Tonk	-	1.Deoli	1.Malpura - 2.Newai 3.Uniara
33 Udaipur	1.Kotra	-	1.Lasadiya 2.Jhadol 3.Kherwara 4.Salumber 5.Sarada	1. Badgaon 2. Bhinder 3. Girwa 4.Gogunda 5. Mavli

ABSTRACT

ABSTRACT				
No. of Assessed Blocks	Semi critical	Critical	Over Exploited	Saline
243	20	24	172	2

CATEGORISATION OF BLOCKS IN TAMIL NADU					
Sl.No	District	Semi Critical	Critical	Over Exploited	Saline
1	Ariyalur	1 Sendurai		1 Suthamalli 1 Egmore - Nungambakkam-I 2 Egmore - Nungambakkam-II 3 Egmore - Nungambakkam-III 4 Egmore - Nungambakkam-IV 5 Kottai - Thondiarpet-I 6 Kottai - Thondiarpet-II 7 Kottai - Thondiarpet-III 8 Kottai - Thondiarpet-IV 9 Mambalam - Guindy-I 10 Mambalam - Guindy-II 11 Mambalam - Guindy-III 12 Mambalam - Guindy-IV 13 Mylapore - Tiruvallikeni--I 14 Mylapore - Tiruvallikeni--II 15 Mylapore - Tiruvallikeni--III 16 Mylapore - Tiruvallikeni--IV 17 Purasawalkam - Perambur-I 18 Purasawalkam - Perambur-II 19 Purasawalkam - Perambur-III 20 Purasawalkam - Perambur-IV	
2	Chennai			1 Annur(N) 2 Anupparpalayam 3 Coimbatore South 4 Ganapathi 5 Karumathampatti 6 Kinathukatavu 7 Kolarpatti 8 Kovilpalayam 9 Perianaickenpalayam 10 Perianegamam 11 Perur 12 Pollachi(N) 13 Pollachi(S) 14 Ramapattinam 15 Selakkarichal 16 Singanallur 17 Sulur 18 Thondamuthur 19 Thudialur 20 Vadachittur 21 Varappatti	
3	Coimbatore	1 Alandurai 2 Annur(S) 3 Karamadai 4 Kottur 5 Madukkarai 6 Marchinaickenpalayam 7 Mettupalayam 8 Saravanampatti 9 Sarkar Samakulam	1 Ottakkal Mandabam	1 Manjakkuppan 2 Nelliukuppan 3 Sirupakkam	1 Kammapuram(E) 2 Kammapuram(W) 3 Pennadam 4 Retty Chavadi 5 Thiruvanthipuram 6 Umangalam 7 Virudhachalam (S) 1 Bommidi 2 Indur 3 Kadathur 4 Kambainallur 5 Karimangalam 6 Marandahalli 7 Palacode 8 Palayam 9 Papparapatty 10 Pennagaram 11 Perumbalai 12 Pulikarai 13 Thenkaraikottai 14 Vellichandai 1 Ayyampalayam 2 Batlagundu 3 Chinnakkampatti 4 Chinnalpatti 5 Devathur 6 Eriodu 7 Kallimanthayam 8 Kottanatham 9 Kovilur
4	Cuddalore	1 Panruti 2 Sethiyathope 3 Thozhudur 4 Tittagudi (E) 5 Veppur 6 Virudhachalam (N)			
5	Dharmapuri	1 Dharmapuri 2 Harur 3 Krishnapuram 4 Morappur 5 Nallampalli 6 Pappireddipatty 7 Sunjalnatham 8 Theerthalamalai			
6	Dindigul	1 Athoor 2 Ayakudi 3 Ayyalur 4 Dharmathupatti 5 Dindigul South 6 Dindigul North 7 Kambliaimpatti 8 Korikadavu 9 Natham	1 Oruthattu 2 Pillaiyarnatham		

CATEGORISATION OF BLOCKS IN TAMIL NADU					
Sl.No	District	Semi Critical	Critical	Over Exploited	Saline
6	Dindigul	10 Pappampatti 11 Reddiapatti 12 Senthurai		10 Nilakkottai 11 Oddanchathram 12 Palakkanoothu 13 Palayam 14 Puliurnatham 15 Reddiarchatram 16 Sanarpatti 17 Silvathur 18 Thoppampatti 19 Vadamadurai 20 Vedasandur 21 Viruveedu	
7	Erode	1 Ammapettai 2 Anthiyur 3 Arachalur 4 Arasur 5 Bhavani 6 Erode west 7 Kanjikoil 8 Kasipalayam 9 Kavandapadi 10 Kilampadi 11 Kurichi 12 Kuthiyalathur 13 Siruvalur 14 Sivagiri 15 Thalavadi 16 Thingalur 17 Sathyamangalam 18 Poondurai	1 Athani	1 Bhavanisagar 2 Chennimalai 3 Elathur 4 Erode East 5 Erode North 6 Kodumudi 7 Modakurichi 8 Nambyur 9 Perundurai 10 Punjaipulampatti 11 Vellode	
8	Kancheepuram	1 Acchirupakkam 2 Arumpuliyur 3 Chengalpattu 4 Cheyyur 5 Chithamur 6 Guduvancheri 7 Kaliyampoondi 8 Kattankulathur 9 Kunnavakkam 10 Mamallapuram 11 Mangadi 12 Nerumbur 13 Onampakkam 14 Ponvilayanthalathur 15 Uthiramerur		1 Chittiambakkam 2 Jameenendathur 3 Pallur 4 Thirukazhukundram 5 Thirupulivanam	1 Govindhavadi 2 L.Endathur 3 Orathi 4 Sirukaveripakkam 5 Thiruppu Kuzhi 6 Walajabad
9	Kanyakumari				
10	Karur	1 Chinthalavadi 2 Karur 3 Panjapatti 4 Thalapatti 5 Thogaimalai	1 Kattalai	1 K.Paramathy 2 Kadavar 3 Mailampatti 4 Pallapatti 5 Pugalur 6 Thennilai 7 Thoranakalpatti 8 Vangal 9 Velliyanai	
11	Krishnagiri	1 Bagalur 2 Barur 3 Berigai 4 Hosur 5 Kaveripattinam 6 Kelamangalam 7 Nagarasampatti 8 Periyamuthur 9 Rayakkottai 10 Shoolagiri 11 Uthanapalli		1 Alapatti 2 Bargur 3 Guruparapalli 4 Kallavi 5 Krishnagiri 6 Mathur 7 Palepalli 8 Pochampalli 9 Samalpatti 10 Samarapatti 11 Singarapettsai 12 Uthangarai 13 Veppanapalli	
12	Madurai	1 Madurai East 2 Madurai West 3 Pudukotta 4 Kottampatti	1 Sedapatti	1 Usilampatti 2 Uthappaicaickanur 3 Muduvarpatti 4 Palamedu	

CATEGORISATION OF BLOCKS IN TAMIL NADU					
Sl.No	District	Semi Critical	Critical	Over Exploited	Saline
12	Madurai	5 Vellalar 6 Athipatti 7 Elumalai 8 Peraiyur 9 Sivarakkottai 10 Kokkulam 11 Thirumangalam 12 Karumathur 13 Sindupatti			
13	Nagapattinam	1 Thiirkannapuram	1 Madhanam 2 Sirkali	1 Kariyappettinam 2 Kuttalam 3 Manganallur 4 Mayiladuthurai 5 Melaiyur 6 Palaiyur 7 Pattavarthi 8 Puthur 9 Sembanarkoil 10 Thiruvilaiyattam 11 Vaitheeswaran Koil	1 Kangalancheri 2 Keelaiyur 3 Kilvelur 4 Nagappattinam 5 Nirmulai 6 Thagatur 7 Thalaianayar 8 Therkuvoigainallur 9 Thevoor 10 Thillayadi 11 Thirukkuvalai 12 Thirumarugal 13 Thiruvengdu 14 Valivalam 15 Velanganni 16 Vedaranyam
14	Namakkal	1 Alanganatham 2 Jedarpalayam 3 Kumarapalayam 4 Manickampalayam 5 Molasi 6 Pallapatti 7 Pandamangalam 8 Tiruchengode		1 Erumaiapatti 2 Kalappanaikanpatti 3 Mallasamudram 4 Mangalapuram 5 Mohanur 6 Mullukurichi 7 Nallipalayam 8 Nallur 9 Namagiripettai 10 Namakkal 11 Paramathi 12 Puduchatram 13 Rasipuram 14 Sellappampatti 15 Senthagalam 16 Vaiyappamalai 17 Valaiyapatti 18 Vennandur	
15	Niligiri				
16	Perambalur	1 Keelapuliur 2 Kolakanatham 3 Vengalam		1 Chettikulam 2 Kurumbalur 3 Pasumbalur 4 Perambalur 5 Valikandapuram	
17	Pudukkottai	1 Alangudi 2 Arasarkulam	1 Keeramangalam		1 Kottaipettinam 2 Perumarthur 3 Sinkavanam 1 Aappanur 2 Kadaladi 3 Melachelvanur 4 S.Tharaikudi 5 Sayalkudi 6 Sikkal 7 Mudukulathur South 8 Keelakkrai 9 Thirupullani
18	Ramanathapuram				
18	Ramanathapuram				
19	Salem	1 Karupur 2 Kolathur 3 Patchamalai 4 Pottaneri 5 Thevur 6 Veeraganoor		1 Attur 2 Edappadi 3 Ernapuram 4 Gangavalli 5 Kadayampatti 6 Karippatti 7 Kattukkottai 8 Konganapuram 9 Malliyakarai 10 Mecheri 11 Nangavalli	

CATEGORISATION OF BLOCKS IN TAMIL NADU

Sl.No	District	Semi Critical	Critical	Over Exploited	Saline
19	Salem			12 Omalur 13 Palamalai 14 Panamarathuppatti 15 Pethanaickanpalayam 16 Poolampatti 17 Salem_Town 18 Sankari East 19 Sankari West 20 Semmandappatti 21 Suramangalam 22 Thalaivasal 23 Tharamangalam 24 Thirumalaigiri 25 Valasaiyur 26 Vazhappadi 27 Veerapandi 28 Vembadithalam 29 Yethapur	
20	Sivagangai	1 Varappur		1 Adirampattinam	1 Andikkadu
21	Thanjavur	1 Budalur 2 Thirukkattupalli 3 Cholanmaligai 4 Thuvarkurichi 5 Ulur 6 Peravurani 7 Kavalipatti 8 Sillathur		2 Aduthurai 3 Ammapettai 4 Avanam 5 Ayyampettai 6 Devanancheri 7 Kabisthalam 8 Kandiyur 9 Kathiramangalam 10 Kumbakonam 11 Kuruchi 12 Kuruvikarambai 13 Melatur 14 Murukkangudi 15 Nachiyarkoil 16 Nadukaveri 17 Nambivayal 18 Nanjikottai 19 Pandanallur 20 Papanasam 21 Pattukkottai 22 Ramapuram 23 Thanjavur 24 Thirumangalakottai 25 Thiruvaiyaru 26 Thiruvidamarudur 27 Thondarappattu 28 Tiruchitrambalam 29 Tiruppanandal	2 Vallam
22	Theni	1 Cumbam 2 Devathanapatti 3 Kodangipatti 4 Mayladumparai 5 Rasingapuram 6 Theni 7 Thenkarai 8 Uthamapalayam	1 Andipatti	1 Erasakkanaickanur 2 Kandamanur 3 Kodivilarpatti 4 Rajathani 5 Thevaram	
23	Thiruvallur	1 Arani 2 Kanagammachattram 3 Kattur 4 Madhavaram 5 Periyapalayam 6 Poonamallee 7 Poonimangadu 8 Pothattur Pettai 9 Redhills 10 Thirumazhisai 11 Tiruttani	1 Ammanambakkam 2 Uthukkottai	1 Ambattur 2 Avadi 3 Balapuram 4 Cherukkanoor 5 Erumbi 6 Kadambathur 7 Kannigaipair 8 Mappedu 9 Pallipattu 10 R.K.Pet 11 Thiruninravur 12 Vengathur	1 Minjur
24	Thoothukudi	1 Kadambur 2 Kayathar 3 Kovilpatti	1 Parivallikottai	1 Ilayarasanendal 2 Ottapidaram 3 Pallakurichi 4 Sattankulam 5 Udangudi	

CATEGORISATION OF BLOCKS IN TAMIL NADU

Sl.No	District	Semi Critical	Critical	Over Exploited	Saline
25	Tirunelveli	1 Keezhapavoor 2 Levinjipuram 3 Panagudi 4 Puliyanikudi 5 Thiruvengadadem 6 Valliyoor 7 Vasudevanallur 8 Veerakeralampudur 9 Venkadampatti	1 Ayikudi 2 Gudalur 3 Nettur	1 Kallurani 2 Karisal Kulam 3 Karivaklamvandanallur 4 Karuvartha 5 Kurukkalpatti 6 Pazhankottai 7 Pazhavoor 8 Radhapuram 9 Sankarankoil 10 Serthamangalam 11 Surandai 12 Tisayanvilai 13 Uthumalai 14 Vannikonenthal 15 Veerasigamani	
26	Tiruppur	1 Alangiyam 2 Dharapuram 3 Madathukulam 4 Nathakadaiyur 5 Udumalpet	1 Vellakoil	1 Avinashi(E) 2 Avinashi(W) 3 Avinashipalayam(S) 4 Cheyur 5 Gudimangalam 6 Kangeyam 7 Kannivadi 8 Karadivavi 9 Kundadam 10 Kunnavur 11 Mulanur 12 Palladam 13 Periavalavadi 14 Perumanallur 15 Pethappampatti 16 Pongalur 17 Ponnapuram 18 Samalapuram 19 Sankarandampalayam 20 Tiruppur (N) 21 Tiruppur (S) 22 Uthiyur 23 Uthukuli	
26	Tiruppur				
27	Tiruvarur	1 Kothonallur 2 Sannanallur	1 Nannilam 2 Thiruvizhimazhalai	1 Agarathirumalam 2 Alangudi 3 Avoor 4 Kodavasal 5 Koradacheri 6 Kulikkarai 7 Peralam 8 Thirukkannamangai 9 Valangaiman	1 Alathampadi 2 Edaiyur 3 Thiruthuraipoondi 4 Murhupet
28	Tiruvannamalai	1 Anakavoor 2 Chennavararam 3 Desur 4 Dusi 5 Eraiur 6 Kadaladi 7 Kalasapakkam 8 Kelur 9 Kilkodungalur 10 Kolappalur 11 Mandakolathur 12 Modayur 13 Nedungunam 14 Peranamallur 15 Polur 16 Pudupalayam 17 Santhavasal 18 Thachambadi 19 T.V. Malai 20 T.V. Malai 21 Vakkadai 22 Vandavasi 23 Vanapuram 24 Vettavlam	1 Kettavarampalayam 2 Malaiyur 3 Nayadumangalam 4 Osur 5 Pachal 6 Thanipadi 7 Thatchampattu 8 Vadathandalam	1 Chengam 2 Cheyyar 3 Kilennathur 4 Melpallipattu 5 Somaspadi 6 Thandarampat 7 Thurinjapuram 8 Veraiyur	

CATEGORISATION OF BLOCKS IN TAMIL NADU

Sl.No	District	Semi Critical	Critical	Over Exploited	Saline
29	Trichy	1 Eragudi 2 Kattuputhur 3 Mannachanallur 4 Musiri 5 Thottiyam 6 Thuvarangurichi 7 Uppiliyapuram	1 Peruvalpur	1 Kannanur 2 Kariyamanickam 3 Koppampatti 4 Manapparai 5 Manikandam 6 Marungapuri 7 Pannappatti 8 Pulivalam 9 Sengattupatti 10 Thathaiyangarpettai 11 Thumbalam 12 Thuraiyur 13 V.Periyapatti 14 Vaiyappatti 15 Valaieduppu	
30	Vellore	1 Agaram 2 Alangayam 3 Andiyappanur 4 Arakanam(South) 5 Banavaram 6 Kandhili 7 Kaniyambadi 8 Koratti 9 Melpadi 10 Natrampalli 11 Odugathur 12 Pallur 13 Panapakkam 14 Paranji 15 Pernampattu 16 Ranipet 17 Sholinghur 18 Thiruvalam 19 Velam 20 Visharam	1 Kaveripakkam 2 Pennathur 3 Walajah	1 Ambalur 2 Ambur 3 Ammanankoil 4 Anaicut 5 Arcot 6 Gudiyatham (West) 7 Gudiyatham(East) 8 Jolarpet 9 K.V.Kuppam 10 Kalavai 11 Katpadi 12 Madhanur 13 Melpatti 14 Melasannankuppam 15 Nemili 16 Pallikonda 17 Pudupadi 18 Sathuvachari 19 Thuthipattu 20 Timiri 21 Tirupathur 22 Ussoor 23 Vaduganthangal 24 Valathur 25 Vaniyambadi 26 Vellore	
31	Villupuram	1 Arakandanallur 2 Kallakurichi 3 Kanai 4 Kandamangalam 5 Manalurpettai 6 Rishivandhiyam 7 Sengurichi 8 Thirukovilur 9 Vadakanandal 10 Villupuram	1 Chinnaselam 2 Mailam	1 Anniyur 2 Arasur 3 Avalurpettai 4 Brammadesam 5 Chithalingamadam 6 Elavanasurkottai 7 Eraiyyur 8 Gingee 9 Indili 10 Kalamardur 11 Kanjanur 12 Kiliyanur 13 Marakkkanam 14 Melmalaiyanur 15 Melolakkur 16 Nagalur 17 Nainarpalayam 18 Nemili 19 Olakkur 20 Sathampati 21 Sathyamangalam 22 Siruvadi 23 Sithalampattu 24 T.V.Nallur 25 Thiyyagadurgam 26 Tindivanam 27 Ulundurpettai 28 Uppuvelur 29 Vadasiruvalur 30 Vallam 31 Vanur	
31	Villupuram				

CATEGORISATION OF BLOCKS IN TAMIL NADU

Sl.No	District	Semi Critical	Critical	Over Exploited	Saline
31	Villupuram			32	Vikkiravandi
32	Virudhunagar	1 Amathur 2 Iyankollankondan 3 Kottaiyur 4 Malli 5 Mandapasalai 6 Nalli 7 Ondipulinackanur 8 Srivilliputtur 9 Watrap	1 Elayiram- Pannai 2 Ethirkottai 3 Mallankinar 4 Mangalam 5 Pillaiyarkulam 6 Salwarpatti 7 Sivakasi	1 Cholapuram 2 Keelarajakularaman 3 Nathampatti 4 Rajapalayam 5 Vatchakara-Patti	
ABSTRACT					
No. of Assessed Firkas	Semi critical		Critical	Over Exploited	Saline
1129	235		48	374	35

CATEGORIZATION OF BLOCKS IN UTTAR PRADESH

S. No.	DISTRICT NAME	CATEGORIZATION OF RESOURCES IN UTTAR PRADESH			SALINE
		SEMI-CRITICAL	Critical	OVER-EXPLOITED	
1	Agra	1 Kheragarh	Jagner	1 Achhnera	
		-	-	2 Akola	
		-	-	3 Barauli Ahir	
		-	-	4 Bichpuri	
		-	-	5 Etmadpur	
		-	-	6 Fatehabad	
		-	-	7 Fatehpur Sikri	
		-	-	8 Khandauli	
		-	-	9 Saiyan	
		-	-	10 Shamsabad	
2	Aligarh	-	1 Chandaus	1 Igla	
		-	2 -	2 Khair	
3	Allahabad	1 Urwa	3 Baheria	1 Bahadurpur	
		-	4 Pratappur	2 Chaka	
		-	-	3 Dhanupur	
		-	-	4 Holagarh	
		-	-	5 Mau-Aima	
4	Ambedkar Nagar	1 Bhiti	-	-	
		1 Amethi	-	-	
		2 Bahadurpur	-	-	
		3 Gauriganj	-	-	
		4 Jagdishpur	-	-	
		5 Sangrampur	-	-	
5	Amethi	6 Shahgarh	-	-	
		1 Gajraula	1 Joya	1 Amroha	
		-	-	2 Dhanaura	
7	Azamgarh	1 Azmatgarh	1 Palhani	-	
		2 Mirzapur	2 Sathiaon	-	
		3 Rani Ki Sarai	-	-	
		4 Tahabarpur	-	-	
8	Baghpat	-	1 Baghpat	1 Binauli	
		-	2 Baraut	2 Pilana	
		-	3 Chaprauli	-	
		-	4 Khekra	-	
9	Ballia	-	1 Rasara	-	
		-	2 Tindwari	-	
10	Banda	1 Jaspura	-	1 Aaku (Nehtaur)	
		2 Ram Nagar	-	2 Budhanpur (Seohara)	
11	Bareilly	-	-	3 Jaleelpur	
		-	-	4 Noorpur	
12	Bijnor	-	-	1 Ambiapur	
		-	-	2 Islammagar	
13	Budaun	1 Bisauli	1 Asafpur	1 Gulauthi	
		2 Ujhani	2 Sahaswan	2 Sikandrabad	
14	Bulandshahar	1 Agauta	B.B.Nagar	-	
		2 Lakhaoiti	1 Danpur	-	
		3 Pahasu	2 Khurja	-	
		4 Unchagaon	3 Shikarpur	-	
15	Chitrakoot	1 Mau	-	1 Karvi	
		2 Ram Nagar	-	-	
16	Etah	1 Sakeet	1 Awagarh	1 Jalesar	
		-	2 Nidholi Kalan	-	
17	Faizabad	1 Bikapur	-	-	
		2 Tarun	-	-	
18	Fatehpur	1 Deomai	1 Airayan	Bhitaura	
		2 Khajuha	2 Amauli	Malawan	
		3 Vijayeepur	3 Bahua	Teliyani	
		-	4 Dhatia	-	
		-	5 Haswa	-	
		-	6 Hathgaon	-	
19	Firozabad	1 Aron	-	1 Firozabad	
		-	-	2 Khairegarh	
		-	-	3 Narkhi	
		-	-	4 Shikohabad	
		-	-	5 Tundla	
20	G B Nagar	-	-	1 Bisrakh	
		-	-	2 Jewar	
21	Ghaziabad	-	-	1 Bhojpur	
		-	-	2 Loni	
		-	-	3 Razapur	
22	Ghazipur	1 Barachawar	Ghazipur	-	
		2 Bhawarkol	Muhammadabad	-	
		4 Karanda	-	-	
		5 Kasimabad	-	-	
		6 Manihari	-	-	
		7 Sadat	-	-	

CATEGORIZATION OF BLOCKS IN UTTAR PRADESH					
S. No.	DISTRICT NAME	SEMI-CRITICAL	CRITICAL	OVER-EXPLOITED	SALINE
23	Hamirpur	1 Sareela	1 Sumerpur	-	
24	Hapur	-	-	1 Garh 2 Hapur 3 Simbholi	
25	Hardoi	1 Ahrauri 2 Harpalpur	-	-	
26	Hathras	1 Sahpau	1 Hathras 2 Sadabad	1 Mursan 2 Sasni	
27	Jaunpur	1 Jalalpur 2 Khutahan 3 Madiyahun 4 Ram Nagar 5 Rampur	1 Barsathi 2 Buxa 3 Dharmapur 4 Dobhi 5 Muftiganj 6 Sikrara	3 Badlapur 4 Karanja Kalan 5 Kerakat 6 Maharajganj 7 Sirkoni	
28	Jhansi	1 Babina 2 Mauranipur	-	-	
29	Kannauj	1 Gugrapur 2 Kannauj	-	Jalalabad Talgram	
30	Kanpur Nagar	1 Chaubeypur 2 Ghatampur 3 Sarsaul 4 Shivrajpur	-	Kalyanpur	
31	Kasganj	-	1 Soron	1 Kasganj 2 Sahawar	
32	Kaushambi	1 Sarsawan	1 Manjhanpur 2 Newada	1 Chail 2 Kara 3 Moorat Ganj 4 Sirathu	
33	Lucknow	1 Malihabad	-	1 Chinhat	
34	Mahoba	-	1 Charkhari 2 Kabrai	1 Jaipur 2 Panwari	
35	Mainpuri	-	-	1 Barnahal	
36	Mathura	-	1 Farah	1 Baldeo 2 Nohjhil 3 Raya	
37	Maunath Bhanjan	1 Badraon 2 Ranipur	-	-	
38	Meerut	1 Daurala 2 Hastinapur	1 Kharkhoda 2 Machhra 3 Meerut 4 Parichhat Garh	1 Rajpura	
39	Mirzapur	1 Chanbey 2 City 3 Marihan 4 Pahari	1 Kon 2 Majhawan 3 Sikhar	-	
40	Moradabad	1 Bhagatpur Tanda 2 Deengarpur	-	1 Bilari 2 Chhajlet 3 Dilari	
41	Muzaffarnagar	-	-	1 Bhaghara 2 Budhana 3 Charthawal 4 Shahpur	
42	Pratapgarh	1 Kalanker 2 Sangaipur	1 Aspur-Deosara	1 Baba Bekhernath 2 Gaura 3 Lakshmanpur 4 Lalganj 5 Mandhata 6 Mangraura 7 Patti 8 Pratapgarh Sadar 9 Rampur-Sangramgarg 10 Sandwa -Chandrika 11 Shivgarh	
43	Rai Bareli	1 Kheron 2 Rahi	1 Sareni	-	
44	Rampur	-	-	1 Chamraua 2 Saidnagar 3 Shahabad 4 Swar	
45	Saharanpur	-	1 Muzafarabad 2 Puwarka	1 Baliakeri 2 Deoband 3 Gangoh 4 Nagal 5 Nakur 6 Nanauta	

CATEGORIZATION OF BLOCKS IN UTTAR PRADESH

S. No.	DISTRICT NAME	SEMI-CRITICAL	Critical	OVER-EXPLOITED	SALINE
46	Sambhal	-	-	7 Rampur	
		-	-	8 Saduli Qudim	
		-	-	9 Sarsawa	
		-	1 Asmoli	1 Bahjoi	
		-	2 Junawai	2 Baniakheda	
47	St. Ravidas Nagar	-	-	3 Gunnaur	
		-	-	4 Pawansa	
		-	-	5 Sambhal	
		-	1 Abholi	-	
		-	2 Aurai	-	
		-	3 Bhadoli	-	
48	Shamli	-	4 Deegh	-	
		-	5 Gyanpur	-	
		-	6 Suriyawaran	-	
		-	1 Kairana	1 Kandhala	
		-	2 Thana Bhawan	2 Shamli	
		-	-	3 Un	
49	Sitapur	1 Machharehta	-	-	
50	Sonbhadra	1 Babhani	1 Ghorawal	-	
		2 Chatara	-	-	
		3 Duddhi	-	-	
		4 Robertsganj	-	-	
51	Sultanpur	1 Bhadaiyan	-	-	
		2 Dubeypur	-	-	
52	Unnao	1 Bigha Pur	-	-	
		2 Sikandar Sirausi	-	-	
53	Varanasi	1 Baragaon	1 Harhuwa	1 Arajiline	
		2 Chiragaon	2 Pindra	-	
		3 Cholapur	-	-	

ABSTRACT

No. of Assessed Blocks	Semi Critical	Critical	Over Exploited	Saline
820	82	68	111	Nil

CATEGORIZTION OF BLOCKS IN UTTRAKHAND

S. No.	District	Semi-critical	Critical	Over-Exploited	Saline
1	Dehradun	-	-	-	-
2	Haridwar	1 Bhagwanpur	-	-	-
		2 Laksar	-	-	-
		3 Khanpur	-	-	-
3	Nainital	-	-	-	-
4	Udamsingh nagar	1 Gadarpur	1 Jaspur	-	-
		2 Rudrapur	2 Kashipur	-	-

ABSTRACT

No. of Assessed Blocks	Semi Critical	Critical	Over-Exploited	Saline
18	5	2	0	Nil

CATEGORIZATION OF BLOCKS IN WEST BENGAL

Sl. No.	District	Semi-critical	Critical	Over-exploited	Saline
1	Malda	-	-	-	-
2	Nadia	1 Chapra 2 Hanskhali 3 Kaligunj 4 Karimpur-I 5 Karimpur-II 6 Nakashipara 7 Tehatta-I 8 Tehatta-II	-	-	-
3	Kochbihar	-	-	-	-
4	North 24 parganas	1 Barrackpore-II	-	-	-
5	Dakshin dinajpur	-	-	-	-
6	Uttar dinajpur	-	-	-	-
7	Bankura	1 Bishnupur	-	-	-
8	Purulia	-	-	-	-
9	Jalpaiguri	-	-	-	-
10	Bardhaman	1 Bhatar 2 Kalna-II 3 Katwa-II 4 Ketugram-I 5 Mangalkote 6 Memari-II 7 Monteswar 8 Raina-I 9 Raina-II	-	-	-
11	Murshidabad	1 Bhagabangola-I 2 Bhagabangola-II 3 Bharatpur-I 4 Bharatpur-II 5 Burwan 6 Domkal 7 Kandi 8 Khargram 9 Lalgola 10 Mur-jiaganj 11 Nabagram 12 Raninagar-I 13 Raninagar-II 14 Sagardighi	-	-	-
12	Birbhum	1 Murarai-II 2 Nalhati-II 3 Nanoor 4 Rampurhat-II	-	-	-
13	Howrah	-	-	-	-
14	Darjeeling	-	-	-	-
15	Hoogly	1 Arambag 2 Chinsurah-Mogra 3 Goghat-I 4 Pandua 5 Polba-Dadpur 6 Singur	1 Goghat-II	-	-
16	West medinipur	1 Ghatal 2 Pingla 3 Sabang	-	-	-
17	East medinipur	1 Bhagawanpur-I 2 Bhagawanpur-II 3 Egra-I 4 Moyna 5 Panskura-I 6 Potashpur-I 7 Potashpur-II	-	-	-

ABSTRACT

No. of Assessed Blocks	Semi Critical	Critical	Over-exploited	Saline
271	53	1	0	Nil

CATEGORIZATION OF BLOCKS IN DAMAN&DIU

Sl. No.	Union Territory	Semi-critical	Critical	Over-exploited	Saline
1	Daman	1 Daman	-	-	-
2	Diu	-	-	1 Diu	-

ABSTRACT

No. of Assessed Units	Semi Critical	Critical	Over-exploited	Saline
2	1	0	1	0

CATEGORIZATION OF ISLANDS IN LAKSHDWEEP

S. No.	Islands	Semi-Critical	Critical	Over-exploited	Saline
1	Agatti	1 Agatti	-	-	-
2	Amini	1 Amini	-	-	-
3	Androth	-	-	-	-
4	Chetlat	-	-	-	-
5	Kadmat	-	-	-	-
6	Kalpeni	-	-	-	-
7	Kiltan	-	-	-	-
8	Kavaratti	1 Kavaratti	-	-	-
9	Minicoy	-	-	-	-

ABSTRACT

No. of Assessed Islands	Semi Critical	Critical	Over-exploited	Saline
9	3	0	0	0

CATEGORISATION OF REGION IN UT of PUDUCHERRY

Sl.No	District	Semi Critical	Critical	Over Exploited	Saline
1	Puducherry	-	-	1	Puducherry
2	Karaikal	-	-	-	-
3	Mahe	-	-	-	-
4	Yanam	-	-	-	1 Yanam

ABSTRACT

No. of Assessed Regions	Semi critical	Critical	Over Exploited	Saline
4	0	0	1	1

Parameter		Normal	Assessment year
Annual Rainfall (mm)	:	674	674
Monsoon Rainfall(mm)	:	577	577
Non-monsoon Rainfall (mm)	:	97	97

Parameter		Total (Command/Non-command)
Net Irrigated area (ha)	:	29068

Soil Type	:	Sandy to sandy loams Soil
Crops (season-wise)	:	Khariff – Paddy; Rabi– Wheat, Sun flower
Aquifer	:	Alluvium

Assessment of Dynamic Ground Water Resources in respect of Nilokheri Block, Karnal District, Haryana.

Ground water draft:

Irrigation

Type of Structure	Monsoon Season			Non-Monsoon Season			Data Source
	Number of Structures	Unit draft	Total Draft (2*3)	Number of Structures	Unit draft	Total Draft (5*6)	
1	2	3	4	5	6	7	8
Shallow Tubewell with PS	9422	0.543	5116.14	9422	1.267	11937.67	MI Census &GWC

Annual Irrigation Draft (monsoon + non-monsoon) **5116.14 + 11937.67 = 17053.81 ham**

Domestic & Industrial Draft

Type of Structure	Monsoon Season			Non-Monsoon Season			Data Source
	Number of Structures	Unit draft	Total Draft (2*3)	Number of Structures	Unit draft	Total Draft (5*6)	
1	2	3	4	5	6	7	8
Deep Tubewell of PHED	44	0.597	26.281	44	1.212	53.358	PHED Office
Shallow Tubewell	70	0.597	41.811	70	1.212	84.889	Industry Deptt
Total	114		68.092	114		138.247	

Recharge from Other Sources:

Recharge from Canals:

Name of canal segment	Lined or unlined	Length of canal (m)	Wetted perimeter (m)	Wetted area (m.sqm)	Seepage factor (ham per day per million square meters of wetted area)	No of running days		Seepage(ham)		Data Source
						Monsoon	Non-monsoon	Monsoon	Non-monsoon	
Chautang fd.	Unlined	10594	12.95	0.137192	20	75	9	205.79	24.69	Irrigation Department
Rakshi Dy.	Unlined	8765	7.68	0.067315	20	75	9	100.97	12.12	
Taraori Mr.	Unlined	3064	6.4	0.01961	20	75	9	29.41	3.53	
Kurak Mr.	Unlined	2743	4.23	0.011603	20	75	9	17.40	2.09	
Bhaini Mr.	Unlined	3677	3.79	0.013936	20	75	9	20.90	2.51	
Sambhi Mr.	Unlined	2957	3.45	0.010202	20	75	9	15.30	1.84	
Sadiq Pur Mr.	Unlined	229	1.62	0.000371	20	75	9	0.56	0.07	
Padana Dy.	Unlined	4237	8.67	0.036735	20	75	9	55.10	6.61	
Sagga Mr.	Unlined	229	1.62	0.000371	20	75	9	0.56	0.07	
Shadi Pur Mr.	Unlined	329	4.44	0.001461	20	75	9	2.19	0.26	
Gital Pur Mr.	Unlined	1829	3.57	0.00653	20	75	9	9.79	1.18	
Barthal Dy.	Unlined	12805	9.92	0.127026	20	75	9	190.54	22.86	
Gholpura Mr.	Unlined	10674	5.24	0.055932	20	75	9	83.90	10.07	
Sambhli Mr.	Unlined	8451	6.96	0.058819	20	75	9	88.23	10.59	
Karsa Mr.	Unlined	6158	3.19	0.019644	20	75	9	29.47	3.54	
I.R. Mr.	Lined	8704	3.7	0.032205	4	75	9	9.66	1.16	
I.R. Mr.	Lined	10331	3.15	0.032543	4	75	9	9.76	1.17	
Bala Mr.	Lined	2021	4.9	0.009903	4	75	9	2.97	0.36	
N.B.K.Link	Lined	20152	42.38	0.854042	4	122	223	416.77	761.81	
Nardak Dy.	Lined	11250	15.85	0.178313	4	63	102	44.93	72.75	
Kheri Dy.	Lined	2113	3.62	0.007649	4	52	5	1.59	0.15	
Total Recharge from Canal Seepage							1335.81	939.41		

$$\text{Annual Recharge from Canal Seepage} = \text{Monsoon Recharge} + \text{Non-monsoon Recharge}$$

$$= 1336 + 939 = 2275 \text{ ham}$$

Recharge from Surface water Irrigation:

Monsoon

Name of (canal) Outlet	Irrigation Water Applied (ham)	Return Flow Factor (Command area)						Recharg e from Surface Water Irrigatio n (ham)
		Average Depth to Water Level (m bgl)	Irrigate d Area (Paddy) (ha)	Retur n flow factor	Irrigate d Area (non- Paddy) (ha)	Return flow factor	Weighted Return flow factor (4*5+6*7)/ (4+6)	
1	2	3	4	5	6	7	8	9
Total Command Area	119.52	16.54	2700	0.50	105	0.30	0.49	58.86
Total Recharge from Surface Water Irrigation (Monsoon season)								58.86

Non-Monsoon

Name of (canal) Outlet	Irrigatio n Water Applied (ham)	Return Flow Factor (Command area)						Recharge from Surface Water Irrigatio n (ham)
		Average Depth to Water Level (m bgl)	Irrigate d Area (Paddy) (ha)	Retur n flow factor	Irrigate d Area (non- Paddy) (ha)	Return flow factor	Weighted Return flow factor (4*5+6*7)/ (4+6)	
1	2	3	4	5	6	7	8	9
Total Command Area	203.77	17.04	0	0.50	29948	0.30	0.30	61.13
Total Recharge from Surface Water Irrigation (Non-monsoon season)								61.13

$$\text{Annual Recharge from Surface Water Irrigation} = \text{Monsoon Recharge} + \text{Non-monsoon Recharge}$$

$$= 58.86 + 61.13 = 119.99 \text{ ham}$$

Recharge from Groundwater Irrigation:

Monsoon

Irrigation Water Applied (GW Draft) (ham)	Return Flow Factor (Command area)						Recharge from Ground Water Irrigation (ham)
	Average Depth to Water Level (m bgl)	Irrigated Area (Paddy) (ha)	Return flow factor	Irrigated Area (non- Paddy) (ha)	Return flow factor	Weighted Return flow factor (3*4+5*6)/ (3+5)	
1	2	3	4	5	6	7	8
5116	16.54	27279	0.45	1789	0.25	0.43	2239.29
Total Recharge from Ground Water Irrigation (Monsoon season)							2239.29

Non-Monsoon

Irrigation Water Applied (GW Draft) (ham)	Return Flow Factor (Command area)						Recharge from Ground Water Irrigation (ham)
	Average Depth to Water Level (m bgl)	Irrigated Area (Paddy) (ha)	Return flow factor	Irrigated Area (non- Paddy) (ha)	Return flow factor	Weighted Return flow factor (3*4+5*6)/ (3+5)	
1	2	3	4	5	6	7	8
11938	17.04	0	0.45	30363	0.25	0.25	2984.41
Total Recharge from Ground Water Irrigation (Non-Monsoon season)							2984.41

$$\begin{aligned} \text{Annual Recharge from Ground Water Irrigation} &= \text{Monsoon Recharge} + \text{Non-monsoon} \\ &\quad \text{Recharge} \\ &= 2239.29 + 2984.41 = 5223.70 \text{ ham} \end{aligned}$$

Recharge from Tanks and Ponds:

Monsoon

Name of Tanks/ Ponds	Average Water Spread Area (ha)	No. of days water is available	Recharge from Tanks and Ponds (0.00144 *2*3)	Data Source
1	2	3	4	5
132	149	135	28.9656	Irrigation Department & Agriculture Deptt.
Total Recharge from Tanks & Ponds (Monsoon season)			28.9656	

Non-Monsoon

Name of Tanks/ Ponds	Average Water Spread Area (ha)	No. of days water is available	Recharge from Tanks and Ponds (0.00144 *2*3)	Data Source
1	2	3	4	
132	149	165	35.4024	Irrigation Department &

				Agriculture Deptt.
Total Recharge from Tanks & Ponds (Non-Monsoon season)		35.4024		

$$\text{Annual Recharge from Tanks and Ponds} = \text{Monsoon Recharge} + \text{Non-monsoon Recharge}$$

$$= 28.96 + 35.40 = 64.36 \text{ ham}$$

Recharge from Water Conservation Structures:

Sr. No	Name of the Structure	No. of structures	Gross Storage [ha.m]	Recharge (ham)		
				Monsoon	Non - Monsoon	Total
1	2	3	4	5	6	7
1	NIL					

Recharge from Other Sources (Monsoon) =

$$[\text{Recharge (Canal Seepage)} + \text{Return flow (SW)} + \text{Return flow (GW)} + \text{Recharge (Tanks/Ponds)} + \text{Recharge (Water Conservation Structure)}] = 1336.00 + 58.86 + 2239.29 + 28.96 + 0.0 = 3663.11 \text{ ham}$$

Recharge from Other Sources (Non-Monsoon)

$$[\text{Recharge (Canal Seepage)} + \text{Return flow (SW)} + \text{Return flow (GW)} + \text{Recharge (Tanks/Ponds)} + \text{Recharge (Water Conservation Structure)}] = 939.00 + 61.13 + 2984.41 + 35.40 + 0.0 = 4019.94$$

Annual Recharge from Other Sources =

$$[\text{Monsoon Other Sources Recharge} + \text{Non-monsoon Other Sources Recharge}] = 3663.11 + 4019.94 = 7683.05$$

Rainfall Recharge

Method I: Rainfall Recharge (using Rainfall Infiltration Factor method):

Monsoon

Normal Rainfall (m)	Rainfall Infiltration Factor	Assessment Area (ha)	Rainfall Recharge (ham) (1*2*3)	Data Source
1	2	3	4	5
0.577	0.22	39491	5012.98	IMD & District Authorities
Recharge from Rainfall (Monsoon season)		5012.98		

Non-Monsoon

Normal Rainfall (m)	Rainfall Infiltration Factor	Assessment Area (ha)	Rainfall Recharge (ham) (1*2*3)	Data Source
1	2	3	4	5
0.097	0.22	39491	842.73	IMD & District Authorities
Recharge from Rainfall (Non-Monsoon season)		842.73		

Method II: Rainfall Recharge during Monsoon (using Water Level Fluctuation method):

Water Level Fluctuation

Average pre- monsoon Depth to Water level (m bgl)	Average post- monsoon Depth to Water level (m bgl)	Water Level Fluctuation (m) (1-2)	Data Source
1	2	3	4
16.54	17.04	-0.496	GWC & CGWB

Rainfall Recharge during Monsoon Season

Assessment Area (ha)	Rock Type	Specif ic Yield	Average Water Level Fluctuation (m)	Change in Storage (ham)	Ground Water Draft (ham)	Ground Water Recharge (ham) (5+6)	Recharge from Other Sources (ham)	Rainfall Recharg e (ham) (8-7)
1	2	3	4	5	6	7	8	9
39491	Alluvium	0.12	-0.49	-2350.50	5184	2833.5	3662.93	829.43
Total Rainfall Recharge(Monsoon season)								829.43

Normalization of Rainfall Recharge during monsoon season (WLF Method)

Assessment Year	Rainfall Recharge	Rainfall for the corresponding Year	Recharge corresponding to Normal Rainfall (Normal Monsoon Rainfall *[2]/[3])
1	2	3	4
2011 (2006-10)	829.43	377.11	1269.07
Normal Rainfall Recharge during Monsoon Season (Average of Col. 4)			1269.07

Allocation of ground water resources for utilization

Projected population density at year 2025	Domestic & Industrial Water Supply Requirement (lpcd)	Extend of Dependence on Ground Water	Annual Allocation of ground water resources for domestic and Industrial water requirement upto 2025 (mm) [(22/60000)*(1)*(2)*(3)]	Area	Annual Allocation of ground water resources for domestic and Industrial water requirement upto 2025 (ham) [(5)*(4)/1000]
1	2	3	4	5	6
0.6	60	0.75	Detail is given below	39491	206

The projected demand for domestic and industrial water supply is kept based on projected population for the year 2025 and present dependency on ground water. In order to rationalize the projected demand of ground water resources, following procedure is adopted:

¾ Case I, when GWav ~ Dgi+ Alld

In such cases projected demand for future domestic and industrial uses = Alld

¾ Case II, when GWav < Dgi+ Alld

In such cases, projected demand for future domestic and industrial uses = (GWav – Dgi) or Dgd, whichever is more.

Where,

GWav = Net Annual Ground Water Availability

Dgi = Existing Ground Water draft for Irrigation

Dgd = Existing Ground Water draft for Domestic use

Dg = Existing Ground water draft for all uses

Alld = Computed value of allocation for domestic use

Net Ground Water Availability For future Irrigation:

Net Annual Ground Water Availability (ham)	Annual Ground Water Draft for Irrigation use (ham)	Annual Allocation of ground water resources for domestic and Industrial water requirement upto 2025 (ham)	Net Ground Water Availability for future Irrigation (ham) [(1)-(2)-(3)]
1	2	3	4
11283	17054	206	- 5978

**SUMMARY REPORT OF DYNAMIC GROUND WATER RESOURCES
ESTIMATION (as on 2011) IN RESPECT OF BLOCK NILOKHERI,
DISTRICT KARNAL, HARYANA**

(in ham)

Annual Replenishable Ground Water Resources					Natural Discharge during monsoon season	Net Annual Ground Water Availability	Annual Ground Water Draft		
Monsoon Recharge		Non-monsoon Recharge		Total			Irrigation Use	Domestic & Industrial water Use	Total
Rainfall Recharge	Recharge from Other sources	Rainfall Recharge	Recharge from Other sources						
1	2	3	4	5	6	7	8	9	10
4010	3663	843	4020	12536	1254	11283	17054	206	17260

Annual Allocation of ground water resources for domestic and Industrial water requirement upto 2025 (ham)	Net Ground Water Availability for future Irrigation (ham)	Stage of Ground Water Development (%)
11	12	13
206	-5978	153