

**GOVERNMENT OF INDIA
WATER RESOURCES
LOK SABHA**

UNSTARRED QUESTION NO:661

ANSWERED ON:26.02.2001

LESS RAINFALL

ASHOK NAMDEORAO MOHOL;RAMSHETH THAKUR

Will the Minister of WATER RESOURCES be pleased to state:

- (a) whether according to Agricultural Meteorology, rainfall in many parts of the country is less than the normal rainfall;
- (b) if so, the names of places where rainfall was less than the average level in each State during the last one year;
- (c) whether the survey of the Central Ground Water Board has also shown a fall in water level in range of 0.1 and 5.0 metres; and
- (d) if so, the reasons therefor?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF WATER RESOURCES(SMT. BIJOYA CHAKRAVARTY)

(a) & (b) The India Meteorological Department has divided the country into 35 regions/Sub-divisions. The rainfall in the Andaman & Nicobar Island, West Rajasthan, East Rajasthan, West M.P., East M.P. & Chhathisgarh, Gujarat region, Saurashtra & Kutch sub divisions is less than normal during 2000 and can be termed as deficient in 134 districts and scanty in 8 districts. The list of districts which received deficient Monsoon rainfall in each State is at Annexure.

(c) & (d) Long term observations made by the Central Ground Water Board have shown situation of fall in the level of ground water in various parts of the country. The decline in the level of ground water is mainly due to withdrawal in excess of annual recharge, variation in the amount and distribution of rainfall, reduction in recharge of ground water due to increased urbanization and deforestation.

STATE DISTRICT	NAME OF	ACTUAL	NORMAL	% Dep	CAT.
ARUNACHAL PRADESH	1. Tirap	2033.5	2798.6	-27%	D
ASSAM	1. N C Hills	1433.2 977.6	2179.4	-34%	D
	2. Sibsagar				
NAGALAND	1. Nagaland	1023.7	1380.6	-26%	D
SIKKIM	1. Sikkim	1815.5	2536.6	-28%	D
ORISSA	1. Bolangir	882.6	1254.8	-30%	D
	2. Cuttack	811.5	1102.3	-26%	D
	3. Kalahandi	827.1	1110.5	-26%	D
	4. Phulbani	961.8	1195.8	-20%	D
	5. Sambalpur	774.4	1355.6	-43%	D
	6. Sundargarh	995.6	1358.4	-27%	D
BIHAR	1. Saran	687.3	934.7	-26%	D
	2. Siwan	757.7	955.2	-21%	D
JHARKHAND	1. Singbhum	835.8	1105.8	-24%	D
UTTAR PRADESH	1. Ballia	712.5	902.7	-21%	D
	2. Hardoi	529.5	804.7	-34%	D
	3. Rae Bareilly	488.0	825.1	-41%	D
	4. Agra	420.1	669.9	-37%	D
	5. Aligarh	476.8	624.9	-24%	D
	6. Etah	420.8	625.3	-33%	D
	7. Etawah	519.8	693.1	-25%	D
	8. Jhansi	636.1	822.6	-23%	D
	9. Lalitpur	544.8	944.6	-42%	D
UTTARANCHAL	1. Garhwal Tehri	534.5	722.2	-26%	D

HARYANA	1.	Gurgaon	362.1	487.0	-26%	D
	2.	Hissar	108.5	316.6	-66%	S
	3.	Jind	320.3	448.4	-29%	D
	4.	Karnal	484.2	640.7	-24%	D
	5.		375.0	517.4	-28%	D
		Kurukshetra	185.4	440.1	-58%	D
	6.		316.5	517.9	-39%	D
		Mahendragarh	321.7	412.7	-22%	D
	7.	Panipat				
	8.	Rewari				

ANNEXURE

DISTRICTS WHICH RECEIVED DEFICIENT MONSOON RAINFALL (20% OR LESS) IN 2000

DELHI (UT)	1.	Delhi	498.0	629.0	-21%	D
PUNJAB	1.	Bhatinda	209.1	290.3	-28%	D
	2.	Faridkot	154.9	329.6	-53%	D
	3.	Gurdaspur	610.2	822.5	-26%	D
	4.	Jalandhar	417.5	542.0	-23%	D
	5.	Ludhiana	355.7	511.3	-30%	D
	6.	Sangrur	156.8	573.5	-67%	S
HIMACHAL	1.	Chamba	700.9	948.9	-26%	D
PRADESH	2.	Kangra	1264.1	1683.5	-25%	D
	3.	Sirmur	1168.0	1535.8	-24%	D
	4.	Solan	806.4	1098.1	-27%	D
JAMMU &	1.	Srinagar	108.4	163.2	-34%	D
KASHMIR	2.	Kupwara	212.7	264.6	-20%	D
	3.	Badgam	88.8	182.5	-51%	D
	4.	Baramula	263.7	342.6	-23%	D
	5.	Ladakh	5.7	35.3	-84%	S
RAJASTHAN	1.	Sri	134.1	178.5	-25%	D
		Ganganagar	111.0	262.5	-58%	D
	2.		109.3	150.0	-27%	D
		Hanumangarh	310.1	387.6	-20%	D
	3.	Jaisalmer	208.0	295.9	-30%	D
	4.	Jalore	318.1	468.0	-32%	D
	5.	Jodhpur	364.4	552.4	-34%	D
	6.	Pali	429.2	843.4	-49%	D
	7.	Alwar	439.4	605.9	-27%	D
	8.	Banswara	397.3	600.6	-34%	D
	9.	Bharatpur	533.4	686.5	-22%	D
	10.	Bhilwara	479.6	742.8	-35%	D
	11.	Bundi	410.4	580.8	-29%	D
	12.		454.3	670.7	-33%	D
		Chittorgarh	354.4	638.5	-44%	D
	13.	Dausa	385.7	480.7	-20%	D
	14.	Dholpur	713.7	901.9	-21%	D
	15.	Dungarpur	384.7	392.9	-28%	D
	16.	Jaipur	448.0	616.2	-27%	D
	17.	Jhalawar	215.9	495.2	-56%	D
	18.	Jhunjhunu				
	19.	Karauli				
	20.	Rajsamand				
	21.	Sawai	412.8	655.1	-37%	D
		Madhopur	248.7	414.5	-40%	D
	22.	Sikar	631.4	804.5	-22%	D
	23.	Sirohi	315.0	555.9	-43%	D
	24.	Tonk	336.9	559.9	-40%	D
	25.	Udaipur	212.2	287.8	-26%	D
	26.	Churu				
MADHYA	1.	Betul	572.7	920.6	-38%	D
PRADESH	2.	Bhind	275.0	679.2	-60%	S
	3.	Bhopal	848.2	1080.5	-21%	D
	4.		646.1	1053.0	-39%	D
		Chhatarpur	527.4	932.1	-43%	D
	5.		831.2	1092.5	-24%	D
		Chhindwara	584.0	817.4	-29%	D
	6.	Damoh	482.0	930.8	-48%	D
	7.	Datia	453.1	781.0	-42%	D
	8.	Dewas	421.3	763.2	-45%	D
	9.	Dhar	710.8	1344.5	-47%	D
	10.	Gwalior	431.6	865.1	-50%	D
	11.		450.3	720.9	-38%	D
		Hoshangabad	417.2	752.6	-45%	D

12.	Indore	433.8	731.3	-41%	D
13.	Jhabua	534.3	727.7	-27%	D
14.	Khandwa	822.3	1091.4	-25%	D
15.	Khargaon	609.4	1133.7	-46%	D
16.	Mandsour	566.2	948.3	-40%	D
17.	Narsingpur	432.4	846.2	-49%	D
		547.5	1220.1	-55%	D
18.	Raisen	655.8	1153.0	-43%	D
19.	Rajgarh	634.6	932.1	32%	D
20.	Ratlam	536.3	784.7	-32%	D
21.	Sehore	404.4	825.2	-51%	D
22.	Seoni	427.5	863.8	-51%	D
23.	Shajapur	1092.2	1358.6	-20%	D
24.	Shivpuri	697.5	1255.7	-44%	D
25.	Tikamgarh	709.5	1130.5	-37%	D
26.	Ujjain	411.0	1066.3	-61%	S
27.	Balaghat	685.6	953.1	-28%	D
28.	Mandla	406.8	1020.3	-60%	S
29.	Panna				
30.	Rewa				
31.	Stna				
32.	Sidhi				

CHHATISGARH	1.	Bastar	1005.4	1270.8	-21%	D
	2.	Durg	704.0	1002.9	-30%	D
	3.	Raigarh	889.2	1307.1	-32%	D
	4.	Raipur	821.2	1195.1	-31%	D

GUJARAT	1.		395.0	621.2	-36%	D
		Banaskantha	430.0	953.6	-55%	D
		2. Baroda	376.1	951.9	-60%	S
		3. Broach	1353.0	1843.2	-27%	D
		4. Dangs	289.0	525.9	-45%	D
		5.	406.2	784.1	-48%	D
		Gandhinagar	317.0	609.7	-48%	D
		6. Kaira	406.1	861.5	-53%	D
		7. Mehsana	376.5	783.8	-52%	D
		8. Panchmahal	719.4	1293.7	-44%	D
		9.	217.7	556.3	-61%	S
		Sabarkantha	260.0	607.4	-57%	D
		10. Surat	478.7	724.9	-34%	D
		11. Amreli	177.2	435.0	-59%	D
		12. Bhavnagar	367.4	557.3	-34%	D
		13. Junagarh	261.2	511.7	-49%	D
		14. Kutch				
		15. Rajkot				
		16.				
		Surendranagar				

DIU (UT)	1.	Diu	333.8	576.8	-42%	D
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MAHARASHTRA	1.	Dhule	459.2	666.8	-31%	D
	2.	Pune	566.8	817.9	-31%	D
	3.	Amraoti	528.6	701.3	-25%	D

TAMIL NADU	1.		300.5	442.7	-32%	D
		Chengalpattu	208.1	394.8	-47%	D
		M.G.R.	216.2	316.2	-32%	D
		2. South	206.8	273.5	-24%	D
		Arcot	190.5	276.5	-31%	D
		3. Thanjavur				
		4. Tiruchirapalli				
		5. Nagapatinam				
		Q.E.M.				

KERALA	1.	Kozhikode	1823.0	2762.9	-34%	D
	2.	Cannur	2096.7	2793.9	-25%	D
	3.	Malapuram	1603.9	2087.9	-23%	D
	4.	Trissur	1626.1	2253.9	-28%	D
	5.		848.6	1173.2	-28%	D
		Thiruvananthapuram	2358.7	2963.7	-20%	D
		6. Kasargode	1861.9	2918.7	-36%	D
		7. Wynad				

D = Deficient when rainfall is -20% to -59%

S = Scanty when rainfall is -60% or less