

BRIEF NOTE ON LIVE STORAGE STATUS OF 91 RESERVOIRS IN THE COUNTRY (WITH REFERENCE TO RESERVOIR STORAGE BULLETIN OF 25.05.2017)

1. ALL INDIA STATUS

Central Water Commission is monitoring live storage status of 91 reservoirs of the country on weekly basis and is issuing weekly bulletin on every Thursday. Out of these reservoirs, 37 reservoirs have hydropower benefit with installed capacity of more than 60 MW. The total live storage capacity of these 91 reservoirs is 157.799 BCM which is about 62% of the live storage capacity of 253.388 BCM which is estimated to have been created in the country. As per reservoir storage bulletin dated **25.05.2017**, live storage available in these reservoirs is **35.053 BCM**, which is **22%** of total live storage capacity of these reservoirs. However, last year the live storage available in these reservoirs for the corresponding period was **27.589 BCM** and the average of last 10 years live storage was **32.300 BCM**. Thus, the live storage available in 91 reservoirs **as per 25.05.2017 Bulletin** is **127%** of the live storage of corresponding period of last year and **109%** of storage of average of last ten years.

The overall storage position is **better than the** corresponding period of last year in the country as a whole and is also **better than the** average storage of last ten years during the corresponding period.

2. REGION WISE STORAGE STATUS:

a) NORTHERN REGION

The northern region includes States of Himachal Pradesh, Punjab and Rajasthan. There are 6 reservoirs under CWC monitoring having total live storage capacity of 18.01 BCM. As per Reservoir Storage Bulletin dated **25.05.2017**, the total live storage available in these reservoirs is **4.36 BCM** which is **24%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **22%** and average storage of last ten years during corresponding period was **28%** of live storage capacity of these reservoirs. Thus, storage during current year is better than the corresponding period of last year but is less than the average storage of last ten years during the corresponding period.

b) EASTERN REGION

The Eastern region includes States of Jharkhand, Odisha, West Bengal and Tripura. There are 15 reservoirs under CWC monitoring having total live storage capacity of 18.83 BCM. As per Reservoir Storage Bulletin dated **25.05.2017**, the total live storage available in these reservoirs is **5.66 BCM** which is **30%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **23%** and average storage of last ten years during corresponding period was **19%** of live storage capacity of these reservoirs. Thus, storage during current year is better than the corresponding period of last year and is also better than the average storage of last ten years during the corresponding period.

c) WESTERN REGION

The Western region includes States of Gujarat and Maharashtra. There are 27 reservoirs under CWC monitoring having total live storage capacity of 27.07 BCM. As per Reservoir Storage Bulletin dated **25.05.2017**, the total live storage available in these reservoirs is **6.87 BCM** which is **25%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **14%** and average storage of last ten years during corresponding period was **25%** of live storage capacity of these reservoirs. Thus, storage during current year is better than the storage of last year and is equal to the average storage of last ten years during the corresponding period.

d) CENTRAL REGION

The Central region includes States of Uttar Pradesh, Uttarakhand, Madhya Pradesh and Chhattisgarh. There are 12 reservoirs under CWC monitoring having total live storage capacity of 42.30 BCM. As per Reservoir Storage Bulletin dated **25.05.2017**, the total live storage available in these reservoirs is **14.25 BCM** which is **34%** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **23%** and average storage of last ten years during corresponding period was **18%** of live storage capacity of these reservoirs. Thus, storage during current year is better than the storage of last year and is also better than the average storage of last ten years during the corresponding period.

e) SOUTHERN REGION

The Southern region includes States of Andhra Pradesh, Telangana, AP&TG (2 combined projects in both states) Karnataka, Kerala and Tamil Nadu. There are 31 reservoirs under CWC monitoring having total live storage capacity of 51.59 BCM. As per Reservoir Storage Bulletin dated **25.05.2017**, the total live storage available in these reservoirs is **3.92 BCM** which is **8 %** of total live storage capacity of these reservoirs. The storage during corresponding period of last year was **11%** and average storage of last ten years during corresponding period was **17%** of live storage capacity of these reservoirs. Thus, storage during current year is less than the corresponding period of last year and is also less than the average storage of last ten years during the corresponding period.

The region wise and reservoir wise details are given in the following pages of the Bulletin.

BROAD ANALYSIS OF OTHER TABLES IN THE BULLETIN

- Normal storage means average storage of last ten years, Close to normal storage means where shortfall is upto 20% of normal, deficient storage is where shortfall is more than 20% of the normal and upto 60% of the normal, highly deficient means where shortfall is more than 60% of normal.
- In the table on page 4, better than normal storage is available in Narmada, Mahi, Ganga, Sabarmati, Godavari, Tapi and Mahanadi & neighbouring East Flowing Rivers. Close to Normal in Indus and West Flowing Rivers of South. Deficient in Rivers of Kutch and Highly Deficient in Cauvery & neighbouring EFR and Krishna basin.
- Table on page 5-7 of the bulletin. The numbers of reservoirs having storage more than last year are **47** and reservoirs having storage more than average of last ten years are **38**. The numbers of reservoirs having storage less than 20% with respect to last year is **5** and having storage less than 20% with reference to average of last ten years is **14**. The number of reservoirs having storage less than or equal to 50% with respect to last year are **16** and having storage less than or equal to 50% with reference to average of last ten years are **32**.

Disclaimer: The Data contained in this Bulletin is as received from the State Government/Project Authorities.

STORAGE STATUS OF IMPORTANT RESERVOIRS IN THE COUNTRY

AS ON 25.05.2017

- Central Water Commission is monitoring storage status of 91 important reservoirs spread all over the country, in which 37 reservoirs have hydropower benefit each with installed capacity of more than 60 MW. These reservoirs are identified thus(*) in the enclosed weekly report.
- The total live storage in 91 important reservoirs in different parts of the country, monitored by CWC as on **25.05.2017** is **35.053 BCM** (**22** percent of the live storage capacity at FRL).The current year's storage is nearly **127** percent of last year's storage and **109** percent of the average of last ten years.

3 Region wise storage status:-

REGION (Monitoring No. of Reservoirs)	Filling position of 91 reservoirs w.r.t. FRL								Departure from Normal storage		
	100%	91%-99%	81%-90%	71%-80%	61%-70%	51%-60%	41%-50%	40% & below			
NORTH (HP,Punjab & Rajasthan), (6 Resv.)	-	-	-	-	-	1	-	5	H.P.	-33 %	
									PUNJAB	29 %	
									RAJASTHAN	-2 %	
EAST (Jharkhand,Odisha, Tripura & W.Bengal (15 Resv.)	-	-	-	-	-	-	4	11	JHARKHAND	30 %	
									ODISHA	55 %	
									W. BENGAL	95 %	
									TRIPURA	247 %	
WEST (Guj.& Mah.), (27 Resv.)	-	-	-	1	-	1	-	25	GUJARAT	23 %	
									MAH.	-28 %	
CENTRAL (MP,UP,Uttarakhand & Chh.), (12 Resv)	-	-	-	-	-	3	-	9	U.P.	107 %	
									UTTARAKHAND	-86 %	
									M.P.	127 %	
									CHHATISGARH	19 %	
SOUTH (Karnataka,TN,AP&TG,AP, TG, & Kerala), (31 Resv.)	-	-	-	1	-	-	-	30	AP&TG	-82 %	
									A,P	-68 %	
									TG	65 %	
									KARNATAKA	-40 %	
									KERALA	-38 %	
									T.N.	-83 %	
Status of 91 reservoirs	0	0	0	2	0	5	4	80			

4 Basin wise storage position:

Better than normal: Ganga,Sabarmati,Godavari,Mahi, Narmada ,Tapi and Mahanadi & Neighbouring EFRS.

Close to normal: Indus and West Flowing Rivers of South.

Deficient: Rivers of Kutch

Highly deficient: Cauvery & neighbouring EFRS and Krishna.

- Out of 91 reservoirs, **45** reservoirs reported more than 80% of normal storage & **46** reservoirs reported 80% or below of normal storage. Out of these **46** reservoirs **32** having storage upto 50% of normal storage.

Name of reservoir	%	Name of reservoir	%
SHOLAYAR	0	ISAPUR	25
NAGARJUNA SAGAR	0	LOWER BHAWANI	31
ALMATTI	0	MATATILA	32
BHIMA(UJJANI)	0	SOMASILA	32
KABINI	0	MALAMPUZHA	39
RAMGANGA	0	KRISHNARAJA SAGRA	41
BHADRA	0	KOYANA	42
BHADAR	6	SRISAILAM	42
YELDARI	7	MALAPRABHA(RENUKA)	44
TUNGABHADRA	10	KALLADA(PARAPPAR)	45
METTUR(STANLEY)	12	HEMAVATHY	46
PERIYAR	15	UPPER TAPI	47
PARAMBIKULAM	19	MACHKUND(JALPUT)	48
VANIVILAS SAGAR	19	ALIYAR	48
VAIGAI	21	NARAYANPUR	49
PENCH (TOTALADOH)	24	MULA	49

14 reservoirs having storage 51% to 80% of normal storage.

51% to 60%	61% to 70%	71% to 80%
7	3	4

- Out of 37 reservoirs with significant(*) hydropower generation, the storage build up is less than or equal to normal in **20** reservoirs.

NOTE : **Normal:** Average of previous ten years, **Close to normal:** Where shortfall is up to 20% of the normal, **Deficient:** Where shortfall is more than 20% of the normal and up to 60% of the normal, **Highly deficient :** Where shortfall is more than 60% of the normal

WEEKLY REPORT - BASINWISE

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 25.05.2017

NAME OF BASIN	LIVE CAP. AT FRL	THIS YEAR'S STORAGE		LAST YEAR'S STORAGE		LAST 10 YEARS' AVG. STORAGE		% DEPARTURE W.R.T. AVE. OF 10 YEARS'
GANGA	28.096	10.238	36.44%	7.462	26.56%	5.435	19.34%	88.37
INDUS	14.730	3.390	23.01%	3.067	20.82%	4.097	27.81%	-17.26
NARMADA	17.414	4.954	28.45%	3.991	22.92%	3.091	17.75%	60.27
TAPI	7.394	2.397	32.42%	0.774	10.47%	1.810	24.48%	32.43
MAHI	4.012	1.604	39.98%	0.778	19.39%	1.353	33.72%	18.55
SABARMATI	0.735	0.170	23.13%	0.166	22.59%	0.141	19.18%	20.57
RIVERS OF KUTCH	0.887	0.048	5.41%	0.060	6.76%	0.062	6.99%	-22.58
GODAVARI	15.394	2.962	19.24%	2.414	15.68%	2.685	17.44%	10.32
KRISHNA	32.831	1.187	3.62%	1.408	4.29%	4.845	14.76%	-75.50
MAHANADI & NEIGHBOURING EFRS	13.181	4.794	36.37%	2.774	21.05%	3.262	24.75%	46.97
CAUVERY & NEIGHBOURING EFRS	8.359	0.547	6.54%	1.462	17.49%	2.224	26.61%	-75.40
WEST FLOWING RIVERS OF SOUTH	14.766	2.762	18.71%	3.233	21.89%	3.295	22.31%	-16.18
TOTAL	157.799	35.053		27.589		32.300		
PERCENTAGE								8.52

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 25.05.2017

S. NO	NAME OF RESERVOIR	FRL (m)	CURRENT RESERVOIR LEVEL (m)	LIVE CAPACITY AT FRL (BCM)	CURRENT LIVE STORAGE (BCM)	DATE	STORAGE AS % OF LIVE CAPACITY AT FRL			BENEFITS	
							CURRENT YEAR	LAST YEAR	LAST 10 YEARS AVERAGE	IRR. (CCA) IN TH. HA	HYDEL IN MW
1	2	4	6	5	7	8	9	10	11	3A	3B
NORTHERN REGION											
<u>HIMACHAL PRADESH</u>											
*1	GOBIND SAGAR(BHAKRA)	512.06	470.68	6.229	1.203	25-05-2017	19	27	24	676	1200
*2	PONG DAM	423.67	394.70	6.157	0.827	24-05-2017	13	9	25	-	360
<u>PUNJAB</u>											
*3	THEIN	527.91	513.76	2.344	1.360	25-05-2017	58	35	45	348	600
<u>RAJASTHAN</u>											
*4	MAHI BAJAJ SAGAR	280.75	269.60	1.711	0.563	25-05-2017	33	20	21	63	140
5	JHAKAM	359.50	346.50	0.132	0.037	25-05-2017	28	7	16	28	-
*6	RANA PRATAP SAGAR	352.81	346.50	1.436	0.368	25-05-2017	26	37	42	229	172
<u>EASTERN REGION</u>											
<u>JHARKHAND</u>											
7	TENUGHAT	269.14	258.33	0.821	0.354	25-05-2017	43	32	29	-	-
8	MAITHON	146.3	139.16	0.471	0.131	25-05-2017	28	9	25	342	-
*9	PANCHET HILL	124.97	122.46	0.184	0.077	25-05-2017	42	3	28	\$	80
10	KONAR	425.81	415.63	0.176	0.034	25-05-2017	19	27	32	\$	-
11	TILAIYA	368.81	365.38	0.142	0.038	25-05-2017	27	13	15	\$	4
<u>ODISHA</u>											
*12	HIRAKUD	192.02	184.86	5.378	1.301	23-05-2017	24	21	22	153	307
*13	BALIMELA	462.08	448.18	2.676	0.763	24-05-2017	29	36	17	-	360
14	SALANADI	82.30	67.24	0.558	0.162	25-05-2017	29	3	23	42	-
*15	RENGALI	123.50	117.01	3.432	1.436	24-05-2017	42	14	11	3	200
*16	MACHKUND(JALPUT)	838.16	825.40	0.893	0.162	24-05-2017	18	31	38	-	115
*17	UPPER KOLAB	858.00	850.06	0.935	0.282	24-05-2017	30	23	16	89	320
*18	UPPER INDRAVATI	642.00	630.64	1.456	0.387	25-05-2017	27	30	20	128	600
<u>WEST BENGAL</u>											
19	MAYURAKSHI	121.31	111.34	0.480	0.107	25-05-2017	22	15	17	227	-
20	KANGSABATI	134.14	125.21	0.914	0.278	25-05-2017	30	20	13	341	-
<u>TRIPURA</u>											
21	GUMTI	93.55	89.75	0.312	0.149	23-05-2017	48	45	14	-	15
<u>WESTERN REGION</u>											
<u>GUJARAT</u>											
*22	UKAI	105.16	95.35	6.615	2.239	25-05-2017	34	12	25	348	300
23	SABARMATI(DHAROI)	189.59	181.94	0.735	0.170	25-05-2017	23	23	19	95	1
*24	KADANA	127.7	123.42	1.472	0.788	25-05-2017	54	21	48	200	120
25	SHETRANJI	55.53	49.52	0.300	0.043	25-05-2017	14	12	8	36	-
26	BHADAR	107.89	98.42	0.188	0.002	25-05-2017	1	8	18	27	-
27	DAMANAGANGA	79.86	67.30	0.502	0.071	25-05-2017	14	15	26	51	1
28	DANTIWADA	184.1	162.93	0.399	0.003	25-05-2017	1	2	1	45	-
29	PANAM	127.41	120.90	0.697	0.216	25-05-2017	31	17	39	36	2
*30	SARDAR SAROVAR	121.92	119.55	1.566	1.154	25-05-2017	74	82	47	2120	1450
31	KARJAN	115.25	98.32	0.523	0.147	25-05-2017	28	15	42	51	3

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA

CENTRAL WATER COMMISSION

WEEK ENDING :- 25.05.2017

S. NO	NAME OF RESERVOIR	FRL (m)	CURRENT RESERVOIR LEVEL (m)	LIVE CAPACITY AT FRL (BCM)	CURRENT LIVE STORAGE (BCM)	DATE	STORAGE AS % OF LIVE CAPACITY AT FRL			BENEFITS	
							CURRENT YEAR	LAST YEAR	LAST 10 YEARS AVERAGE	IRR. (CCA) IN TH. HA	HYDEL IN MW
1	2	4	6	5	7	8	9	10	11	3A	3B
MAHARASHTRA											
32	JAYAKWADI(PAITHON)	463.91	458.12	2.171	0.460	21-05-2017	21	0	14	227	-
*33	KOYANA	657.90	627.48	2.652	0.313	25-05-2017	12	7	28	-	1920
34	BHIMA(UJJANI)	496.83	488.59	1.517	0.000	25-05-2017	0	0	6	125	12
35	ISAPUR	441.00	427.30	0.965	0.062	24-05-2017	6	3	26	104	-
36	MULA	552.30	535.99	0.609	0.036	25-05-2017	6	6	12	139	-
37	YELDARI	461.77	447.96	0.809	0.006	25-05-2017	1	0	11	78	-
38	GIRNA	398.07	387.66	0.524	0.129	25-05-2017	25	0	13	79	-
39	KHADAKVASLA	582.47	578.88	0.056	0.014	25-05-2017	25	38	34	78	8
*40	UPPER VAITARNA	603.50	595.50	0.331	0.104	25-05-2017	31	30	32	-	61
41	UPPER TAPI	214.00	208.79	0.255	0.029	25-05-2017	11	1	24	45	-
*42	PENCH (TOTALADOH)	490.00	468.05	1.091	0.058	25-05-2017	5	11	22	127	160
43	UPPER WARDHA	342.50	337.57	0.564	0.209	25-05-2017	37	22	30	70	-
44	BHATSA	142.07	114.81	0.942	0.363	25-05-2017	39	33	33	29.378	15
45	DHOM	747.70	732.27	0.331	0.062	25-05-2017	19	15	25	36.2	2
46	DUDHGANGA	646.00	622.72	0.664	0.117	25-05-2017	18	0	22	2.441	24
47	MANIKDOH (KUKADI)	711.25	685.50	0.288	0.009	25-05-2017	3	1	4	2.2	6
48	BHANDARDARA	744.91	721.47	0.304	0.062	25-05-2017	20	1	15	63.74	46
CENTRAL REGION											
UTTAR PRADESH											
49	MATATILA	308.46	301.26	0.707	0.070	24-05-2017	10	11	31	-	30
*50	RIHAND	268.22	258.99	5.649	1.858	25-05-2017	33	17	13	-	300
UTTRAKHAND											
*51	RAMGANGA	365.30	306.06	2.196	0.000	25-05-2017	0	19	30	1897	198
*52	TEHRI	830.00	746.20	2.615	0.109	24-05-2017	4	2	4	2351	1000
MADHYA PRADESH											
*53	GANDHI SAGAR	399.90	394.88	6.827	3.869	24-05-2017	57	40	19	220	115
54	TAWA	355.40	342.63	1.944	0.444	25-05-2017	23	6	20	247	-
*55	BARGI	422.76	411.50	3.180	0.858	25-05-2017	27	32	19	157	90
*56	BANSAGAR	341.64	335.85	5.166	2.796	24-05-2017	54	36	22	488	425
*57	INDIRA SAGAR	262.13	250.23	9.745	2.219	25-05-2017	23	15	11	2380	1000
58	BARNA	348.55	342.78	0.456	0.132	24-05-2017	29	6	13	546	-
CHHATTIS GARH											
*59	MINIMATA BANGOI	359.66	352.57	3.046	1.784	23-05-2017	59	32	45	-	120
60	MAHANADI	348.70	339.12	0.767	0.111	24-05-2017	14	25	27	319	10
SOUTHERN REGION											
A.P. & TG											
*61	SRISAILAM	269.75	236.16	8.288	0.426	25-05-2017	5	5	12	0	770
*62	NAGARJUNA SAGAR	179.83	153.31	6.841	0.000	25-05-2017	0	0	20	895	810
ANDHRA PRADESH											
63	SOMASILA	100.58	82.45	1.994	0.222	25-05-2017	11	34	34	168	0
TELANGANA											
64	SRIRAMSAGAR	332.54	321.50	2.300	0.259	25-05-2017	11	6	7	411	27
65	LOWER MANAIR	280.42	272.57	0.621	0.216	25-05-2017	35	12	21	199	60

WEEKLY REPORT OF 91 IMPORTANT RESERVOIRS OF INDIA

GOVERNMENT OF INDIA CENTRAL WATER COMMISSION

WEEK ENDING :- 25.05.2017

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							CURRENT YEAR	LAST YEAR	LAST 10 YEARS AVERAGE	IRR. (CCA) IN TH. HA	HYDEL IN MW
1	2	4	6	5	7	8	9	10	11	3A	3B
KARNATAKA											
66	KRISHNARAJA SAGRA	752.50	735.32	1.163	0.061	24-05-2017	5	14	13	79	-
*67	TUNGBHADRA	497.74	478.34	3.276	0.029	25-05-2017	1	11	9	529	72
68	GHATAPRABHA	662.95	632.61	1.391	0.048	24-05-2017	3	3	4	317	-
69	BHADRA	657.76	631.39	1.785	0.000	24-05-2017	0	7	24	106	39
70	LINGANAMAKKI	554.43	522.73	4.294	0.407	25-05-2017	9	19	17	-	55
71	NARAYANPUR	492.25	485.66	0.863	0.126	25-05-2017	15	8	30	425	-
72	MALAPRABHA(RENUKA)	633.83	620.37	0.972	0.024	24-05-2017	2	2	6	215	-
73	KABINI(Sancherla Tank)	696.16	685.33	0.444	0.000	24-05-2017	0	0	8	85	-
74	HEMAVATHY	890.63	869.43	0.927	0.035	24-05-2017	4	10	8	265	-
75	HARANGI	871.42	855.54	0.220	0.034	24-05-2017	15	8	15	53	-
76	SUPA	564.00	531.35	4.120	1.175	25-05-2017	29	22	23	-	-
77	VANIVILAS SAGAR	652.28	632.39	0.802	0.019	24-05-2017	2	6	12	123	-
*78	ALMATI	519.60	503.66	3.105	0.000	25-05-2017	0	2	7	@	290
*79	GERUSOPPA	55.00	50.35	0.130	0.104	25-05-2017	80	84	87	83	240
KERALA											
80	KALLADA(PARAPPAR)	115.82	85.90	0.507	0.053	25-05-2017	10	44	23	62	-
*81	IDAMALAYAR	169.00	132.54	1.018	0.184	25-05-2017	18	19	18	33	75
*82	IDUKKI	732.43	701.77	1.460	0.172	25-05-2017	12	21	21	-	780
*83	KAKKI	981.46	939.14	0.447	0.061	25-05-2017	14	30	23	23	300
*84	PERIYAR	867.41	858.73	0.173	0.007	25-05-2017	4	9	28	84	140
85	MALAPMUZHA	115.06	100.43	0.224	0.018	25-05-2017	8	7	21	21	3
TAMIL NADU											
86	LOWER BHAWANI	278.89	260.60	0.792	0.069	25-05-2017	9	7	28	105	8
*87	METTUR(STANLEY)	240.79	210.38	2.647	0.118	25-05-2017	4	17	37	122	360
88	VAIGAI	279.20	265.99	0.172	0.008	25-05-2017	5	8	23	61	6
89	PARAMBIKULAM	556.26	535.96	0.380	0.020	25-05-2017	5	9	28	101	-
90	ALIYAR	320.04	307.21	0.095	0.023	25-05-2017	24	32	51	#	60
*91	SHOLAYAR	1002.79	962.33	0.143	0.000	25-05-2017	0	0	6	-	95
TOTAL FOR 91 RESERVOIRS				157.799	35.053						
PERCENTAGE								22	17	20	

* HYDEL POWER CAPACITY HAVING CAPACITY MORE THAN 60MW

\$ TOTAL CCA 342 TH. HA OF DVC SYSTEM

TOTAL CCA 101 TH. HA OF PARAMBIKULAM & ALIYAR

@ TOTAL CCA 425 TH. HA. OF NARAYANPUR AND ALMATI

† SABARMATI RESERVOIR IS SUPPLEMENTED WITH NARMADA WATER THROUGH PIPELINE.

SI. No. 30th The FRL of S.S.P. 138.38 M and Live capacity at FRL will be 5.760 BCM. However at present the lowest block of the dam is at the level of 121.92 M. and the live capacity at this level is 1.566 BCM

Sd/-

Director

W. M. , CWC