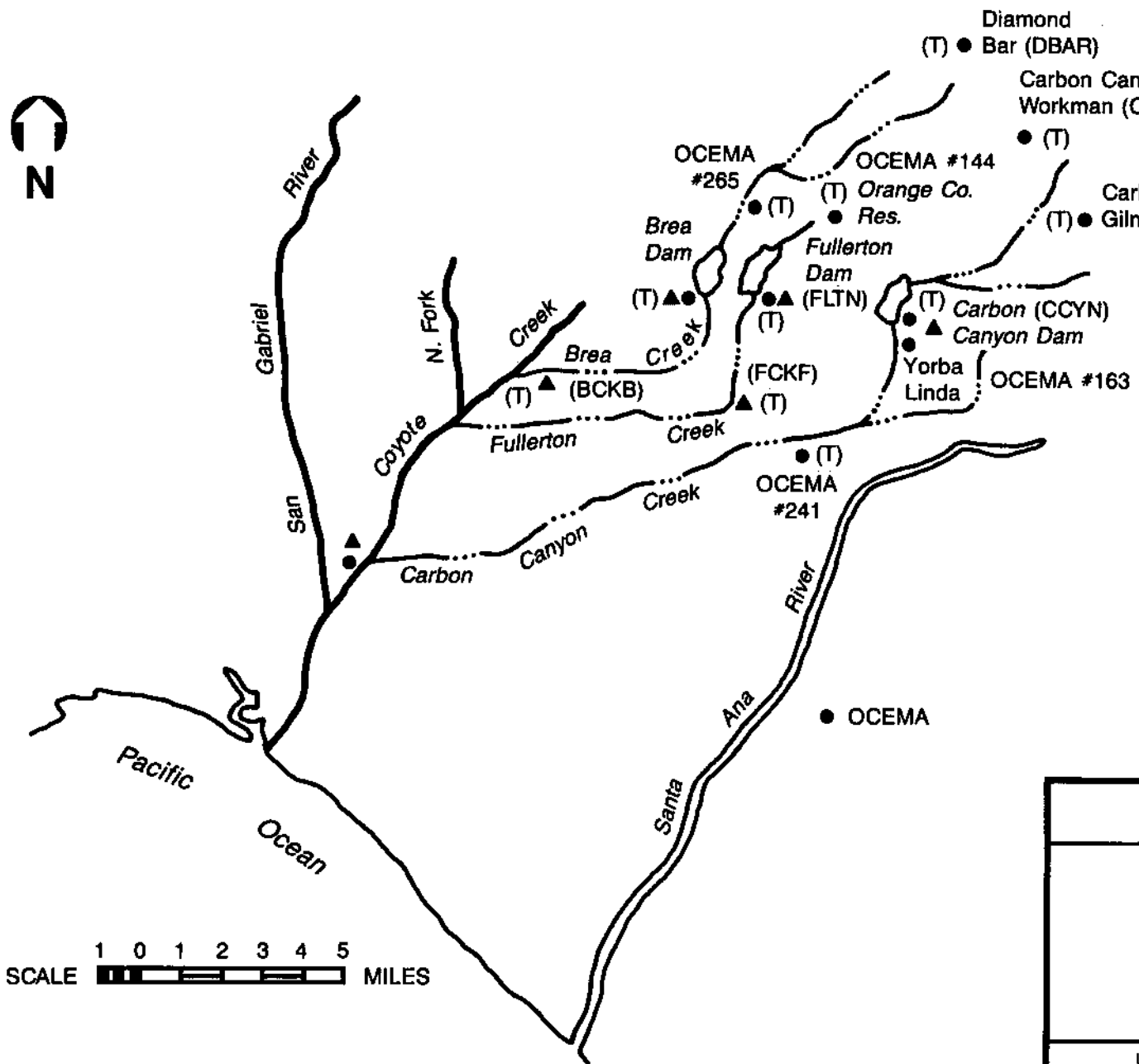


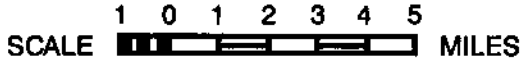
Hydrologic Instrumentation at Brea Dam

Parameters	Gauge Type	Automatic Recorders	Report Mode	Stored Record (Period Available)	Comments
Water Surface Elevation	Staff Boards	None	Visual	Flood Control Basin Operation Report SPL 19 (1942-present). Paper strip charts (1941-present).	The lower well paper strip chart is operated at 9.6"/day during the rainy season for better definition and 2.4"/day in other periods. The upper well is operated 2.4"/day all the time.
	Upper Float Well	Stevens A-35	Visual		
	Lower Float Well	Stevens A-71	Visual		
	Upper and Lower Float Well	Digital recorder with quartz clock	Telemetry	Punch tape (1974-present). Telemetry data file.	
Downstream Gauge Height	Slant Manometer	Digital recorder	Visual Telemetry	Flood Control Basin Operation Report SPL 19 (1942-present). Punch tape (1974-present). Telemetry data file.	U.S.G.S. operates the gauge, publishes the daily record and stores the paper punch tape for U.S.G.S. station ID #11088500.
Outlet Gate Opening	Gate Opening Indicator	Stevens type F	Visual	Flood Control Basin Operation Report SPL 19 (1942-present). Paper strip charts (1941-present).	
Precipitation	Tipping Bucket	Digital recorder	Telemetry	Punch tape (1941-present). Telemetry data file.	Data on the paper charts are evaluated for daily rainfall amounts and the charts are then sent to the NWS for publication.
	Belfort Recording	Gauge	None	Paper chart (1941-present).	
	Glass Raintube	None	Visual	Rainfall Record SPL 31 (1941-present). Reservoir Operation Report SPL 424 (1941-present).	

BREA DAM SAN GABRIEL RIVER BASIN CALIFORNIA
HYDROLOGIC INSTRUMENTATION AT BREA DAM
US ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT



- LEGEND**
- Precipitation Gauge
 - ▲ Stream Gauge
 - (T) Telemetry



BREA DAM SAN GABRIEL RIVER BASIN CALIFORNIA
PRECIPITATION AND STREAM GAUGES
U.S. ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT

Precipitation, Reservoir, and Stream Gauges In and Near the Brea Dam Watershed

Station Identification	Station Name	Latitude (N) (deg-min-sec)	Longitude (W) (deg-min-sec)	Elevation (ft)	Type of Gauge(s)*
BREA	Brea Dam	33-53-26	117-55-26	340	RR, CR, RW, CW
BCKB	Brea Creek blw Brea Dam	33-53-16	117-55-32	208	RS, CS
CCYN	Carbon Canyon Dam	33-54-55	117-50-24	500	RR, CR, RW, CW
CCKC	Carbon Creek blw Carbon Canyon Dam	33-54-40	117-50-29	403	RS, CS
CCYG	Carbon Canyon Gilman	33-55-26	117-46-34	1624	RR
CCYW	Carbon Canyon Workman	33-57-29	117-46-42	1180	RR
DBAR	Diamond Bar	34-00-06	117-48-48	920	RR, CR
FLTN	Fullerton Dam	33-53-50	117-53-08	310	RR, CR, RW, CW
FCKF	Fullerton Creek blw Fullerton Dam	33-53-45	117-53-07	261	RS, CS
OCEMA #265	City of Brea	33-54-53	117-54-04	110	AR
OCEMA #241	Miller Basin	33-51-54	117-51-10	219	AR
OCEMA #144	Orange County Reservoir	33-56-07	117-52-58	660	AR
OCEMA #163	Yorba Linda	33-52-19	117-48-37	299	RR, **

*Legend:

	Rain (Precipitation)	Reservoir Water Surface Elevation	Streamflow Water Surface Elevation	Outlet Gate Height
Non-Standard, Non-Recording (Staff)	NR	NW	NS	NG
Standard, Non-Recording	SR			
Recording (at site)	RR	RW	RS	RG
Corps Event Reporting Telemetry	CR	CW	CS	CG
Alert Event Reporting Telemetry	AR	AW	AS	

** Will be replaced with AR in the near future.

For location of these gauges, see Plate 5-01.

BREA DAM SAN GABRIEL RIVER BASIN CALIFORNIA
PRECIPITATION, RESERVOIR, & STREAM GAUGES IN & NEAR THE BREA DAM WATERSHED
U.S. ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT

Rating Table for Brea Creek Below Brea Dam (BCKB)

Gauge Height (ft)	Channel Flow (cfs)	Gauge Height (ft)	Channel Flow (cfs)
1.0	0.2	5.2	1110
1.2	2.0	5.4	1180
1.4	18.6	5.6	1240
1.6	59.6	5.8	1310
1.8	110	6.0	1380
2.0	160	6.2	1450
2.2	208	6.4	1530
2.4	261	6.6	1600
2.6	315	6.8	1680
2.8	371	7.0	1750
3.0	427	7.2	1830
3.2	484	7.4	1900
3.4	541	7.6	1980
3.6	600	7.8	2060
3.8	660	8.0	2140
4.0	721	8.2	2220
4.2	784	8.4	2290
4.4	848	8.6	2370
4.6	912	8.8	2450
4.8	976	9.0	2530
5.0	1040	9.2	2630

BREA DAM
SAN GABRIEL RIVER BASIN
CALIFORNIA

RATING TABLE FOR BREA CREEK
BELOW BREA DAM (BCKB)

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

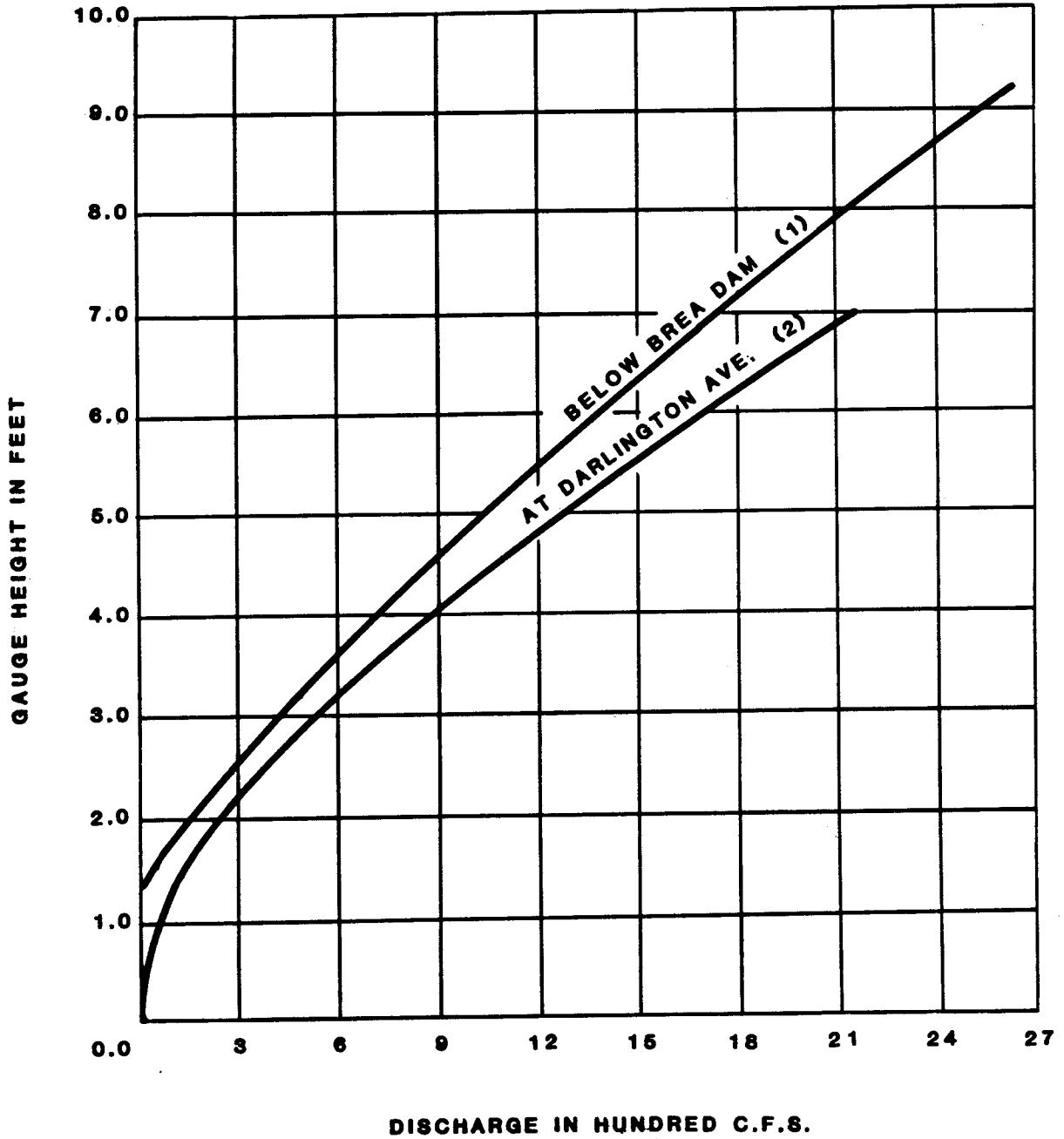
Rating Table for Brea Creek at Darlington (BCKD)

Gauge Height (ft)	Channel Flow (cfs)	Gauge Height (ft)	Channel Flow (cfs)
0.0	0.0	4.6	1118
0.2	1.1	4.8	1198
0.4	6.8	5.0	1280
0.6	18.2	5.2	1363
0.8	35.0	5.4	1447
1.0	58.0	5.6	1533
1.2	85.0	5.8	1621
1.4	118	6.0	1710
1.6	155	6.2	1800
1.8	189	6.4	1890
2.0	245	6.6	1980
2.2	295	6.8	2070
2.4	348	7.0	2160
2.6	404	7.2	2258
2.8	463	7.4	2356
3.0	525	7.6	2454
3.2	590	7.8	2552
3.4	657	8.0	2650
3.6	728	8.2	2748
3.8	803	8.4	2846
4.0	880	8.6	2944
4.2	958	8.8	3042
4.4	1038	9.0	3140

**BREA DAM
SAN GABRIEL RIVER BASIN
CALIFORNIA**

**RATING TABLE FOR BREA CREEK
AT DARLINGTON (BCKD)**

**U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT**



- (1) U.S.G.S. GAUGING STATION
- (2) O.C.E.M.A. GAUGING STATION

BREA DAM SAN GABRIEL RIVER BASIN CALIFORNIA
BREA CREEK STREAM GAUGE RATING CURVES
U.S. ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT