

Table 11. Mean, standard deviation, and skew values associated with logarithms of annual peak-discharge data from stream-gaging stations, State of Hawai'i.

[Bulletin 17B, Interagency Advisory Committee on Water Data (1982); PeakFQ, program for flood-frequency analysis from Flynn and others (2006)]

Station	Number of years of record	Systematic gaged record			Bulletin 17B weighted values		
		Mean	Standard deviation	Skew	Mean	Standard deviation	Skew
16010000	92	3.5157	0.2532	-0.150	3.5157	0.2532	-0.133
16013000	40	2.8757	0.2275	-0.289	2.8757	0.2275	-0.210
16016000	43	3.7316	0.3115	0.412	3.7316	0.3115	0.259
16017000 ^l	25	3.5112	0.2173	-0.466	3.5112	0.2173	-0.281
16018000 ^h	11	3.6471	0.2104	2.157	3.6471	0.2104	0.374
16019000	65	3.2876	0.2193	-0.461	3.2876	0.2193	-0.352
16028000	46	4.0062	0.1868	0.236	4.0062	0.1868	0.151
16031000 ^l	57	4.1029	0.2643	-0.279	4.1029	0.2643	-0.218
16036000	64	3.8646	0.2683	-0.227	3.8646	0.2683	-0.185
16049000	83	3.8703	0.2596	-0.041	3.8703	0.2596	-0.043
16052500 ^l	47	3.0717	0.4340	-0.578	3.0717	0.4340	-0.400
16055000	47	3.6773	0.4485	-0.904	3.6773	0.4485	-0.575
16060000 ^l	95	4.1282	0.2928	-0.283	4.1282	0.2928	-0.239
16063000	66	3.6262	0.1824	0.190	3.6262	0.1824	0.135
16068000 ^u	93	3.4839	0.2302	0.543	3.4839	0.2302	0.410
16071000 ^{h,l}	51	3.8391	0.2919	0.675	3.8391	0.2919	0.432
16071500	48	2.2099	0.4421	-0.464	2.2099	0.4421	-0.333
16073500	43	2.4174	0.4625	0.017	2.4174	0.4625	-0.002
16080000 ^l	56	3.5004	0.2091	-0.301	3.5004	0.2091	-0.233
16081200 ^{h,l}	43	2.4623	0.2664	0.182	2.4623	0.2664	0.112
16084500	47	3.7568	0.3752	-0.530	3.7568	0.3752	-0.372
16085000	23	2.3641	0.5752	0.024	2.3641	0.5752	-0.007
16089000 ^h	67	3.4723	0.2840	0.256	3.4723	0.2840	0.184
16093200	22	3.6352	0.3176	-0.085	3.6352	0.3176	-0.070
16097000	15	3.1271	0.1672	-0.132	3.1271	0.1672	-0.089
16097500 ^u	51	3.0775	0.2247	0.653	3.0775	0.2247	0.420
16097900	36	2.1521	0.5427	0.221	2.1521	0.5427	0.128
16101000	37	3.6403	0.2241	0.010	3.6403	0.2241	-0.009
16103000	47	4.1432	0.2577	-0.821	4.1432	0.2577	-0.536
16105000 ^l	15	3.0305	0.1289	-0.320	3.0305	0.1289	-0.175
16106000 ^{h,l}	13	3.7302	0.1543	0.612	3.7302	0.1543	0.225
16108000	55	3.7310	0.2684	0.525	3.7310	0.2684	0.351
16114000	11	2.5984	0.2735	-0.204	2.5984	0.2735	-0.112
16115000	20	3.1485	0.2880	-0.131	3.1485	0.2880	-0.094
16116000	20	2.7690	0.2167	0.410	2.7690	0.2167	0.188
16117000	23	2.4982	0.3584	-0.175	2.4982	0.3584	-0.121
16130000	45	2.3947	0.4657	0.029	2.3947	0.4657	0.007
16200000	83	3.2572	0.2602	-0.162	3.2572	0.2602	-0.141
16201000	33	3.0153	0.1796	-0.079	3.0153	0.1796	-0.069
16204000	22	3.4012	0.1198	0.541	3.4012	0.1198	0.260
16206000 ^{h,l}	12	3.0165	0.1640	0.856	3.0165	0.1640	0.300
16208000	50	3.2175	0.2723	-0.142	3.2175	0.2723	-0.117
16208500 ^l	15	2.7437	0.4832	-1.027	2.7437	0.4832	-0.434
16210500	38	3.3614	0.4275	-0.226	3.3614	0.4275	-0.167
16211300	39	2.6691	0.3711	0.353	2.6691	0.3711	0.215
16211500	18	2.3957	0.6697	-0.330	2.3957	0.6697	-0.191
16211600 ^u	49	2.4158	0.4031	0.178	2.4158	0.4031	0.114
16211700 ^l	11	2.9450	0.2898	1.346	2.9450	0.2898	0.362
16211800 ^u	44	2.2271	0.8138	-0.775	2.2271	0.8138	-0.504
16212200 ^l	51	2.5765	0.3420	0.071	2.5765	0.3420	0.040
16212300 ^l	13	2.7133	0.6920	-1.126	2.7133	0.6920	-0.430
16212500	17	2.7834	0.4412	-0.340	2.7834	0.4412	-0.192
16212601 ^u	50	2.7096	0.2395	0.563	2.7096	0.2395	0.365
16212800	49	3.2972	0.2289	0.442	3.2972	0.2289	0.289

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Station	Number of years of record	Systematic gaged record			Bulletin 17B weighted values		
		Mean	Standard deviation	Skew	Mean	Standard deviation	Skew
16213000	56	3.5086	0.3714	-0.207	3.5086	0.3714	-0.166
16216000	52	3.9066	0.3161	-0.580	3.9066	0.3161	-0.411
16223000	54	3.2098	0.3297	0.066	3.2098	0.3297	0.037
16224500 ^l	43	2.9548	0.2579	-0.389	2.9548	0.2579	-0.277
16226000	57	3.0177	0.3563	0.229	3.0177	0.3563	0.157
16226200	25	2.9375	0.2216	-0.276	2.9375	0.2216	-0.180
16227000	20	3.2960	0.2635	-0.195	3.2960	0.2635	-0.128
16227500 ^l	10	2.6868	0.4053	-1.151	2.6868	0.4053	-0.393
16228000	71	2.9677	0.3383	-0.628	2.9677	0.3383	-0.469
16228200	39	3.0000	0.2991	-0.290	3.0000	0.2991	-0.209
16228500 ^l	11	3.3031	0.2768	-1.270	3.3031	0.2768	-0.424
16228900 ^u	33	2.6290	0.3105	0.116	2.6290	0.3105	0.058
16229000 ^u	92	3.1629	0.3146	0.482	3.1629	0.3146	0.366
16229300	44	3.3346	0.3568	-0.646	3.3346	0.3568	-0.433
16235400	42	2.7527	0.3898	-0.362	2.7527	0.3898	-0.259
16237500	43	2.5803	0.2993	0.106	2.5803	0.2993	0.060
16238500	63	2.8131	0.3377	-0.079	2.8131	0.3377	-0.072
16240500	89	2.7751	0.2887	0.393	2.7751	0.2887	0.300
16244000	59	2.6228	0.3419	-0.034	2.6228	0.3419	-0.037
16246000	45	2.5654	0.3558	-0.545	2.5654	0.3558	-0.377
16247200 ^l	11	2.9530	0.2389	-0.662	2.9530	0.2389	-0.283
16247500 ^l	43	2.7556	0.3217	0.406	2.7556	0.3217	0.255
16247900 ^h	35	2.6213	0.3608	0.612	2.6213	0.3608	0.351
16248800	39	2.4977	0.4717	-0.853	2.4977	0.4717	-0.528
16249000 ^l	11	3.2178	0.3120	0.226	3.2178	0.3120	0.061
16249100 ^l	45	2.0181	0.4454	-0.326	2.0181	0.4454	-0.240
16254000 ^l	49	2.9114	0.4338	-0.038	2.9114	0.4338	-0.041
16260500 ^l	39	3.2257	0.3511	-0.114	3.2257	0.3511	-0.094
16265600 ^h	13	2.9117	0.2110	1.351	2.9117	0.2110	0.391
16270900 ^l	30	2.2993	0.3158	0.097	2.2993	0.3158	0.043
16275000 ^u	68	2.7704	0.3783	0.309	2.7704	0.3783	0.223
16278000 ^{h,u}	27	1.6655	0.4494	0.822	1.6655	0.4494	0.415
16279500	25	2.9632	0.5380	-0.295	2.9632	0.5380	-0.191
16283000 ^h	34	2.1423	0.3332	1.087	2.1423	0.3332	0.534
16283200	25	2.6140	0.2427	-0.700	2.6140	0.2427	-0.396
16283480	25	2.9251	0.3620	0.589	2.9251	0.3620	0.298
16283600 ^l	34	1.9966	0.3018	0.230	1.9966	0.3018	0.131
16283700 ^l	34	1.9014	0.2607	0.251	1.9014	0.2607	0.144
16284000 ^h	44	2.6324	0.3685	0.199	2.6324	0.3685	0.124
16284200 ^l	33	2.7180	0.2620	-0.377	2.7180	0.2620	-0.254
16291000	13	2.7864	0.3331	0.411	2.7864	0.3331	0.147
16294900	49	3.3187	0.3286	-0.639	3.3187	0.3286	-0.440
16296500	49	3.5187	0.1687	-0.500	3.5187	0.1687	-0.356
16303000	54	3.2576	0.2515	-0.204	3.2576	0.2515	-0.163
16304200	42	2.9044	0.3026	-0.496	2.9044	0.3026	-0.342
16304500 ^l	16	3.2426	0.1924	-0.396	3.2426	0.1924	-0.213
16310501	19	3.0920	0.4158	-0.331	3.0920	0.4158	-0.194
16325000 ^u	38	3.0945	0.2244	0.461	3.0945	0.2244	0.277
16330000 ^{h,u}	50	3.4343	0.2471	0.625	3.4343	0.2471	0.401
16331000	40	1.7184	0.7390	-0.144	1.7184	0.7390	-0.115
16340000 ^u	47	3.4292	0.2894	0.634	3.4292	0.2894	0.399
16343000	15	3.5808	0.4654	-0.529	3.5808	0.4654	-0.265
16345000 ^l	49	3.2829	0.2246	-0.210	3.2829	0.2246	-0.165

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Station	Number of years of record	Systematic gaged record			Bulletin 17B weighted values		
		Mean	Standard deviation	Skew	Mean	Standard deviation	Skew
16350000	50	3.1702	0.3476	-0.183	3.1702	0.3476	-0.146
16400000 ^{h,u}	83	3.4499	0.2452	1.302	3.4499	0.2452	0.751
16402000	28	3.3838	0.3480	0.493	3.3838	0.3480	0.263
16403000	27	2.8789	0.2706	0.504	2.8789	0.2706	0.265
16404000	28	3.1386	0.3792	0.011	3.1386	0.3792	-0.011
16404200	28	2.2134	0.3877	-0.164	2.2134	0.3877	-0.120
16405000	27	2.9509	0.2899	0.414	2.9509	0.2899	0.218
16405500	46	3.0667	0.3074	-0.146	3.0667	0.3074	-0.118
16408000 ^h	68	3.1810	0.3115	0.688	3.1810	0.3115	0.474
16411300 ^u	26	1.2588	0.4900	-0.693	1.2588	0.4900	-0.397
16411320 ^u	33	0.9749	1.5425	-1.229	0.9749	1.5425	-0.608
16411400	26	2.4440	0.6337	-0.349	2.4440	0.6337	-0.223
16411600	34	1.3289	0.5367	-0.754	1.3289	0.5367	-0.460
16411640	43	2.6655	0.3737	0.422	2.6655	0.3737	0.265
16411800	34	0.2203	1.4958	-1.479	0.2203	1.4958	-0.644
16411900 ^u	17	2.2587	0.4118	-1.145	2.2587	0.4118	-0.477
16413500	30	2.7085	0.3627	0.340	2.7085	0.3627	0.187
16414000 ^u	51	2.8228	0.3557	-0.274	2.8228	0.3557	-0.211
16415000 ^h	25	2.4316	0.3267	0.993	2.4316	0.3267	0.456
16415400 ^l	44	2.6300	0.2254	-0.545	2.6300	0.2254	-0.375
16416000	25	2.5228	0.2025	-1.065	2.5228	0.2025	-0.525
16419000 ^u	40	2.1432	0.4526	-0.162	2.1432	0.4526	-0.127
16419500	43	2.3408	0.4892	-0.194	2.3408	0.4892	-0.150
16500100 ^u	45	2.3955	0.3626	0.585	2.3955	0.3626	0.366
16500300 ^l	41	3.5231	0.3351	-0.391	3.5231	0.3351	-0.276
16500800 ^u	46	2.7479	0.3802	0.866	2.7479	0.3802	0.519
16501000	53	3.7511	0.1891	0.108	3.7511	0.1891	0.068
16501200 ^h	16	3.7035	0.1582	1.679	3.7035	0.1582	0.450
16502000 ^h	49	2.7977	0.2499	0.448	2.7977	0.2499	0.292
16502400 ^u	44	2.2183	0.3471	0.080	2.2183	0.3471	0.043
16502800	42	2.8974	0.3194	-0.244	2.8974	0.3194	-0.183
16502900 ^l	36	3.7732	0.3204	-0.136	3.7732	0.3204	-0.108
16508000 ^l	89	3.3756	0.1666	-0.233	3.3756	0.1666	-0.198
16510000 ^l	40	3.1796	0.2048	-0.866	3.1796	0.2048	-0.538
16515000 ^l	38	2.8342	0.1429	-0.784	2.8342	0.1429	-0.490
16516000	33	3.3920	0.2004	0.525	3.3920	0.2004	0.298
16517000	34	3.3322	0.1925	-0.700	3.3322	0.1925	-0.433
16518000	88	3.5797	0.2049	-0.531	3.5797	0.2049	-0.421
16519000	32	3.0327	0.2195	-0.250	3.0327	0.2195	-0.176
16520000	34	2.9585	0.2059	-0.435	2.9585	0.2059	-0.289
16524000	14	3.1112	0.1478	-0.234	3.1112	0.1478	-0.134
16527000 ^l	45	3.1772	0.1921	-0.543	3.1772	0.1921	-0.376
16531100	20	1.9276	0.1098	-0.020	1.9276	0.1098	-0.034
16536000	49	2.9491	0.2069	-0.035	2.9491	0.2069	-0.039
16543000	15	2.4458	0.1462	0.095	2.4458	0.1462	0.020
16545000	56	3.2060	0.1659	0.394	3.2060	0.1659	0.269
16552800	15	2.8253	0.4078	-0.196	2.8253	0.4078	-0.119
16554000	11	2.9641	0.2038	-0.073	2.9641	0.2038	-0.060
16555000 ^l	31	3.4732	0.2587	0.061	3.4732	0.2587	0.021
16557000 ^{h,l}	37	2.7917	0.1860	0.886	2.7917	0.1860	0.494
16565000 ^h	35	2.7969	0.2137	1.137	2.7969	0.2137	0.550
16566000 ^l	25	2.6082	0.1163	-1.272	2.6082	0.1163	-0.564
16570000	61	3.3038	0.2368	0.056	3.3038	0.2368	0.032

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		Mean	Standard deviation	Skew	Mean	Standard deviation	Skew
16574000	11	2.6531	0.1219	0.482	2.6531	0.1219	0.157
16577000	37	3.5448	0.2268	-0.485	3.5448	0.2268	-0.325
16585000	57	3.0025	0.3987	0.207	3.0025	0.3987	0.141
16586000	42	2.6158	0.1833	0.196	2.6158	0.1833	0.120
16587000	96	2.7339	0.3902	0.186	2.7339	0.3902	0.145
16603700	39	1.4315	1.0376	-1.041	1.4315	1.0376	-0.593
16603800 ^l	45	1.6259	0.4063	0.131	1.6259	0.4063	0.079
16603850 ^u	35	1.7160	1.0036	-0.951	1.7160	1.0036	-0.548
16604500	25	3.3570	0.3198	-0.845	3.3570	0.3198	-0.461
16607000 ^l	58	3.4488	0.2369	-0.950	3.4488	0.2369	-0.624
16614000	25	3.6635	0.2356	-0.765	3.6635	0.2356	-0.426
16616500 ^u	30	1.0370	0.8584	-1.374	1.0370	0.8584	-0.611
16617000	13	2.3855	0.1957	0.073	2.3855	0.1957	0.005
16618000	62	3.0847	0.2793	0.131	3.0847	0.2793	0.089
16619700	44	2.3597	0.3465	0.148	2.3597	0.3465	0.090
16620000	91	3.3246	0.2267	0.563	3.3246	0.2267	0.423
16623400	22	1.5462	1.0477	-1.549	1.5462	1.0477	-0.569
16630200 ^h	46	2.7544	0.3175	0.590	2.7544	0.3175	0.371
16636000 ^h	13	2.2666	0.1008	0.864	2.2666	0.1008	0.315
16638500 ^h	41	2.9160	0.3615	-0.285	2.9160	0.3615	-0.209
16643300 ^{h,u}	47	2.5240	0.3318	0.492	2.5240	0.3318	0.316
16646200	45	2.6645	0.2962	-0.382	2.6645	0.2962	-0.276
16647500	41	1.2273	0.8110	-0.629	1.2273	0.8110	-0.416
16650500	34	2.7109	0.2913	-0.628	2.7109	0.2913	-0.396
16658500 ^u	42	1.5496	0.5885	-0.417	1.5496	0.5885	-0.294
16660000	39	1.8372	1.1900	-0.667	1.8372	1.1900	-0.432
16663500	13	0.7805	1.1794	-0.559	0.7805	1.1794	-0.263
16664000	13	1.0841	1.1723	-0.400	1.0841	1.1723	-0.200
16700000	61	2.1954	0.2071	-0.232	2.1954	0.2071	-0.187
16701200	10	2.7955	0.2526	-0.599	2.7955	0.2526	-0.251
16701300	23	2.8269	0.3748	0.622	2.8269	0.3748	0.404
16701400 ^l	17	2.7120	0.2851	0.010	2.7120	0.2851	-0.007
16701750	18	2.9808	0.6516	-0.670	2.9808	0.6516	-0.343
16701800	16	3.6836	0.3691	-0.870	3.6836	0.3691	-0.407
16704000 ^l	80	4.2490	0.2431	0.358	4.2490	0.2431	0.268
16713000 ^l	20	4.5515	0.2756	-1.339	4.5515	0.2756	-0.533
16717000	42	3.9602	0.1927	-0.128	3.9602	0.1927	-0.105
16717400	20	2.0083	0.2658	0.207	2.0083	0.2658	0.131
16717600	25	2.5159	0.2424	1.338	2.5159	0.2424	0.642
16717650	25	2.8337	0.2517	0.512	2.8337	0.2517	0.326
16717800	26	3.3174	0.3137	0.370	3.3174	0.3137	0.191
16717850	14	2.1373	0.3167	0.375	2.1373	0.3167	0.139
16717950	17	1.4877	0.6608	0.866	1.4877	0.6608	0.359
16720000	45	2.9164	0.2438	0.268	2.9164	0.2438	0.171
16720300	31	2.5409	0.2740	0.359	2.5409	0.2740	0.201
16725000	45	2.5436	0.2569	0.534	2.5436	0.2569	0.337
16737000	20	2.5854	0.1767	0.513	2.5854	0.1767	0.236
16738000 ^h	11	3.0365	0.2367	2.257	3.0365	0.2367	0.369
16739000	13	2.5378	0.3423	0.708	2.5378	0.3423	0.260
16740000	12	1.6083	0.2450	1.118	1.6083	0.2450	0.350
16741000	11	2.4737	0.2289	0.311	2.4737	0.2289	0.094
16742000	19	2.0627	0.1953	0.841	2.0627	0.1953	0.367
16752600	27	1.7349	0.7255	-0.818	1.7349	0.7255	-0.460
16755800	34	1.9712	0.2531	0.290	1.9712	0.2531	0.167

Table 11. Mean, standard deviation, and skew values associated with logarithms of annual peak-discharge data from stream-gaging stations, State of Hawai'i.

[Bulletin 17B, Interagency Advisory Committee on Water Data (1982); PeakFQ, program for flood-frequency analysis from Flynn and others (2006)]

Station	Number of years of record	Systematic gaged record			Bulletin 17B weighted values		
		Mean	Standard deviation	Skew	Mean	Standard deviation	Skew
16756000	10	3.2026	0.3518	-1.164	3.2026	0.3518	-0.395
16756100	11	2.9370	0.1905	0.409	2.9370	0.1905	0.131
16756300	25	2.9842	0.2662	-0.026	2.9842	0.2662	-0.036
16756500	45	2.9733	0.2828	0.136	2.9733	0.2828	0.082
16757000	24	2.7005	0.3325	-0.458	2.7005	0.3325	-0.274
16758000	61	2.6960	0.3551	0.512	2.6960	0.3551	0.353
16759000	48	2.2923	0.3181	0.310	2.2923	0.3181	0.202
16759040 ^h	21	2.1114	0.2969	1.038	2.1114	0.2969	0.435
16759060	27	1.7925	0.8759	-0.311	1.7925	0.8759	-0.204
16759080	12	2.7053	0.4882	0.569	2.7053	0.4882	0.199
16759180 ^l	10	2.6911	0.1607	-0.450	2.6911	0.1607	-0.199
16759200	23	2.3269	0.4326	0.119	2.3269	0.4326	0.047
16759300	30	2.4003	0.6860	-0.179	2.4003	0.6860	-0.131
16759500	11	2.9954	0.4276	-1.028	2.9954	0.4276	-0.387
16759800	25	1.5503	0.2111	0.353	1.5503	0.2111	0.179
16762000 ^l	27	2.8737	0.2430	-1.213	2.8737	0.2430	-0.569
16764000 ^{h,u}	25	3.0057	0.1316	1.069	3.0057	0.1316	0.473
16765000 ^l	17	2.6407	0.1597	0.161	2.6407	0.1597	0.056
16767000 ^u	24	3.0471	0.2530	-0.860	3.0471	0.2530	-0.462
16770000	20	3.4246	0.3785	-0.529	3.4246	0.3785	-0.369
16770500	29	2.7482	0.5474	-0.049	2.7482	0.5474	-0.049

^hA single high outlier detected by PeakFQ program.

^lOne or two low outliers detected by PeakFQ program using default criterion.

^uA user-specified low-outlier criterion used.