

**CONTRA COSTA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT  
RAINFALL DISTRIBUTION COEFFICIENTS FOR VARIOUS DESIGN STORMS**

DURATION INTERVAL	3-HR		6-HR		9-HR <sup>1</sup>		12-HR		24-HR		36-HR <sup>1</sup>		48-HR <sup>1</sup>		96-HR	
	15 minutes		15 minutes		15 minutes		15 minutes		30 minutes		30 minutes		30 minutes		2 hours	
	Time (hr)	% of Total	Time (hr)	% of Total	Time (hr)	% of Total	Time (hr)	% of Total	Time (hr)	% of Total	Time (hr)	% of Total	Time (hr)	% of Total	Time (hr)	% of Total
1	0.25	3.0	0.25	2.1	0.25	1.0	0.25	0.9	0.5	0.9	0.5	1.1	0.5	0.7	2.0	0.0
2	0.50	2.0	0.50	2.5	0.50	2.0	0.50	0.9	1.0	0.9	1.0	1.3	1.0	0.7	4.0	0.1
3	0.75	5.0	0.75	3.8	0.75	2.0	0.75	1.0	1.5	0.9	1.5	1.4	1.5	0.7	6.0	0.7
4	1.00	2.8	1.00	4.5	1.00	2.0	1.00	1.0	2.0	0.9	2.0	1.5	2.0	0.7	8.0	1.6
5	1.25	8.8	1.25	6.0	1.25	3.0	1.25	1.1	2.5	0.9	2.5	1.5	2.5	0.8	10.0	1.4
6	1.50	10.2	1.50	3.0	1.50	2.0	1.50	1.1	3.0	1.0	3.0	1.8	3.0	0.8	12.0	3.6
7	1.75	5.5	1.75	2.3	1.75	2.0	1.75	1.1	3.5	1.1	3.5	2.0	3.5	0.8	14.0	5.6
8	2.00	7.0	2.00	2.5	2.00	3.0	2.00	1.2	4.0	1.1	4.0	2.2	4.0	0.9	16.0	4.1
9	2.25	10.5	2.25	4.8	2.25	4.0	2.25	1.2	4.5	1.2	4.5	2.5	4.5	0.9	18.0	2.0
10	2.50	11.0	2.50	4.3	2.50	3.0	2.50	1.2	5.0	1.2	5.0	3.4	5.0	0.9	20.0	0.6
11	2.75	27.7	2.75	2.6	2.75	2.0	2.75	1.3	5.5	1.2	5.5	4.6	5.5	1.0	22.0	0.4
12	3.00	6.5	3.00	2.5	3.00	2.0	3.00	1.5	6.0	1.3	6.0	12.4	6.0	1.1	24.0	0.0
13			3.25	2.2	3.3	2.0	3.25	1.6	6.5	1.4	6.5	6.2	6.5	1.2	26.0	0.1
14			3.50	2.5	3.5	2.0	3.50	1.6	7.0	1.7	7.0	3.8	7.0	1.2	28.0	0.2
15			3.75	5.0	3.8	1.0	3.75	1.7	7.5	1.9	7.5	3.0	7.5	1.3	30.0	0.0
16			4.00	7.9	4.0	2.0	4.00	1.7	8.0	1.9	8.0	2.4	8.0	1.3	32.0	0.0
17			4.25	19.0	4.3	2.0	4.25	1.9	8.5	2.5	8.5	2.2	8.5	1.4	34.0	0.0
18			4.50	6.3	4.5	2.0	4.50	2.0	9.0	3.5	9.0	2.0	9.0	1.5	36.0	0.0
19			4.75	4.0	4.8	2.0	4.75	2.3	9.5	4.9	9.5	1.6	9.5	1.7	38.0	0.0
20			5.00	3.0	5.0	3.0	5.00	3.0	10.0	21.2	10.0	1.5	10.0	2.2	40.0	1.1
21			5.25	2.5	5.3	3.0	5.25	3.2	10.5	6.8	10.5	1.5	10.5	2.4	42.0	0.4
22			5.50	2.4	5.5	3.0	5.50	4.1	11.0	4.0	11.0	1.4	11.0	3.1	44.0	4.7
23			5.75	2.2	5.8	3.0	5.75	4.9	11.5	3.3	11.5	1.3	11.5	3.7	46.0	3.0
24			6.00	2.1	6.0	4.0	6.00	14.6	12.0	2.9	12.0	1.1	12.0	10.9	48.0	3.6
25			6.3		6.3	4.0	6.25	6.1	12.5	2.5	12.5	0.3	12.5	4.5	50.0	2.4
26			6.5	5.0	6.50	3.6	6.50	3.6	13.0	2.3	13.0	0.3	13.0	2.7	52.0	3.6
27			6.8	7.0	6.75	3.1	6.75	3.1	13.5	2.0	13.5	0.4	13.5	2.3	54.0	5.0
28			7.0	6.0	7.00	2.8	7.00	2.8	14.0	1.8	14.0	0.4	14.0	2.1	56.0	4.4
29			7.3	5.0	7.25	2.6	7.25	2.6	14.5	1.6	14.5	0.4	14.5	1.9	58.0	4.4
30			7.5	4.0	7.50	2.1	7.50	2.1	15.0	1.6	15.0	0.4	15.0	1.6	60.0	4.4
31			7.8	3.0	7.75	2.0	7.75	2.0	15.5	1.5	15.5	0.4	15.5	1.5	62.0	3.3
32			8.0	2.0	8.00	1.8	8.00	1.8	16.0	1.5	16.0	0.4	16.0	1.3	64.0	4.7
33			8.3	2.0	8.25	1.7	8.25	1.7	16.5	1.4	16.5	0.5	16.5	1.3	66.0	13.7
34			8.5	2.0	8.50	1.7	8.50	1.7	17.0	1.4	17.0	0.5	17.0	1.3	68.0	3.6
35			8.8	2.0	8.75	1.6	8.75	1.6	17.5	1.3	17.5	0.5	17.5	1.2	70.0	4.6
36			9.0	1.0	9.00	1.6	9.00	1.3	18.0	1.3	18.0	0.6	18.0	1.2	72.0	4.4
37					9.25	1.3	9.25	1.3	18.5	1.2	18.5	0.7	18.5	1.0	74.0	3.4
38					9.50	1.2	9.50	1.2	19.0	1.2	19.0	0.7	19.0	0.9	76.0	1.5
39					9.75	1.2	9.75	1.2	19.5	1.1	19.5	0.8	19.5	0.9	78.0	0.9
40					10.00	1.2	10.00	1.1	20.0	1.1	20.0	0.8	20.0	0.9	80.0	0.0
41					10.25	1.2	10.25	1.0	20.5	1.0	20.5	1.0	20.5	0.9	82.0	0.2
42					10.50	1.1	10.50	1.1	21.0	1.0	21.0	1.3	21.0	0.8	84.0	1.2
43					10.75	1.1	10.75	1.1	21.5	0.9	21.5	1.8	21.5	0.8	86.0	1.1
44					11.00	1.1	11.00	1.1	22.0	0.9	22.0	5.5	22.0	0.8	88.0	0.0
45					11.25	1.0	11.25	1.0	22.5	0.8	22.5	2.4	22.5	0.7	90.0	0.0
46					11.50	1.0	11.50	1.0	23.0	0.8	23.0	1.5	23.0	0.7	92.0	0.0
47					11.75	0.9	11.75	0.9	23.5	0.7	23.5	1.1	23.5	0.7	94.0	0.0
48					12.00	0.9	12.00	0.7	24.0	0.7	24.0	1.1	24.0	0.7	96.0	0.0
49											24.5	0.9	24.5	0.3		
50											25.0	0.9	25.0	0.3		
51											25.5	0.8	25.5	0.4		
52											26.0	0.7	26.0	0.4		
53											26.5	0.7	26.5	0.4		
54											27.0	0.6	27.0	0.4		
55											27.5	0.6	27.5	0.4		
56											28.0	0.6	28.0	0.5		
57											28.5	0.5	28.5	0.5		
58											29.0	0.5	29.0	0.5		
59											29.5	0.5	29.5	0.6		
60											30.0	0.5	30.0	0.7		
61											30.5	0.5	30.5	0.8		
62											31.0	0.4	31.0	0.8		
63											31.5	0.4	31.5	1.1		
64											32.0	0.4	32.0	2.9		
65											32.5	0.4	32.5	1.4		
66											33.0	0.4	33.0	1.0		
67											33.5	0.4	33.5	0.8		
68											34.0	0.4	34.0	0.7		
69											34.5	0.4	34.5	0.6		
70											35.0	0.4	35.0	0.6		
71											35.5	0.3	35.5	0.5		
72											36.0	0.3	36.0	0.5		
73													36.5	0.5		
74													37.0	0.5		
75													37.5	0.5		
76													38.0	0.4		
77													38.5	0.4		
78													39.0	0.4		
79													39.5	0.4		
80													40.0	0.4		
81													40.5	0.4		
82													41.0	0.4		
83													41.5	0.4		
84													42.0	0.4		
85													42.5	0.3		
86													43.0	0.3		
87													43.5	0.3		
88													44.0	0.3		
89													44.5	0.3		
90													45.0	0.3		
91													45.5	0.3		
92													46.0	0.3		