Okoboji and Lower Lakes Flood Elevations and Duration

(Source - Little Sioux River Downstream Impacts of Lower Gar Lake Outlet Modifications, Iowa Great Lakes Management Plan - US Army Corps of Engineers, Tables 1 and 4)

Event	Maximum computed lake elevation (expressed in feet over dam)	Scenario	Duration (days) of Flooding above			
			4.7 ft	3.7 ft	2.7 ft	1.7 ft
10 Year Flood	2.3	Existing	0	0	0	28
	2.2	4 Culverts	0	0	0	25
	2.2	6 Culverts	0	0	0	20
	2.2	70' Bridge	0	0	0	22
	2.1	110' Bridge	0	0	0	19
	1.9	110' Bridge with improvements	0	0	0	9

Event	Maximum computed lake elevation (expressed in feet over dam)	Scenario	Duration (days) of Flooding above			
			4.7 ft	3.7 ft	2.7 ft	1.7 ft
50 Year Flood	3.5	Existing	0	0	23	101
	3.3	4 Culverts	0	0	16	92
	3.1	6 Culverts	0	0	9	73
	3.2	70' Bridge	0	0	12	81
	3	110' Bridge	0	0	7	66
	2.7	110' Bridge with improvements	0	0	1	31

Event	Maximum computed lake elevation (expressed in feet over dam)	Scenario	Duration (days) of Flooding above			
			4.7 ft	3.7 ft	2.7 ft	1.7 ft
100 Year Flood	4.2	Existing	0	15	36	138
	3.9	4 Culverts	0	5	28	131
	3.7	6 Culverts	0	0	19	108
	3.7	70' Bridge	0	1	22	117
	3.6	110' Bridge	0	0	15	99
	3.2	110' Bridge with improvements	0	0	7	55

Event	Maximum computed lake elevation (expressed in feet over dam)	Scenario	Duration (days) of Flooding above			
			4.7 ft	3.7 ft	2.7 ft	1.7 ft
1993 Flood	4.66	Existing	0	17	42	146
	na	4 Culverts	0	4	36	140
	na	6 Culverts	0	0	28	125
	na	70' Bridge	0	0	31	134
	na	110' Bridge	0	0	21	120
	na	110' Bridge with improvements	0	0	8	83

Event	Maximum computed lake elevation (expressed in feet over dam)	Scenario	Duration (days) of Flooding above			
			4.7 ft	3.7 ft	2.7 ft	1.7 ft
500 Year Flood	6.1	Existing	28	51	114	172
	5.5	4 Culverts	10	23	86	170
	5.2	6 Culverts	5	14	62	168
	5.2	70' Bridge	6	15	69	169
	5	110' Bridge	4	11	52	167
	4.8	110' Bridge with improvements	2	8	23	156

Note - 1993 flood reached an elevation that was 4.66 feet above the dam. Normal flood pool elevation is 2.5 feet above the dam