

TABLE OF FLOODING RATES

(In Gallons per minute) (U.S.)

For

Various Hole Sizes in a Vessel Hull At Various Depths of Water

(Based upon formula in U.S. Navy Salvors Handbook)

		Diameter Opening in Hull (Inches)							
		1	1.5	2	2.5	3	3.5	4	6
Depth of Hole in Feet	1	20	44	79	123	177	241	314	707
	2	28	62	111	174	250	340	444	1000
	3	34	77	136	213	306	417	544	1224
	4	39	88	157	245	353	481	628	1414
	5	44	99	176	274	395	538	702	1581
	6	48	108	192	301	433	589	770	1731
	7	52	117	208	325	468	636	831	1870
	8	56	125	222	347	500	680	889	1999
	9	59	133	236	368	530	722	942	2121
	10	62	140	248	388	559	761	993	2235

This Table is intended for the purpose of sizing shipboard dewatering systems. The regulations for commercial fishing vessels address only bilge systems which are designed for normal seepage and leakage. It is **RECOMMENDED** that emergency dewatering systems for vessels be based upon the maximum flooding rate which could occur on a vessel based upon hull penetration, size and the depth of the opening below the waterline. Existing pumps, such as recirculation pumps or fire pumps could be used by retrofitting them with emergency bilge suctions.

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