Acceptable Separation Distance (Thermal Radiation)

Volume In Gallons Undiked	Fire Width	ASD Bldgs	ASD People
100	20	17	107
200	28	24	140
300	35	29	114
400	40	35	190
500	45	37	210
600	49	40	230
700	53	43	240
800	57	46	250
900	60	48	270
1,000	63	50	275
2,000	89	68	365
3,000	110	84	420
4,000	126	85	442
5,000	141	105	550
6,000	155	115	580
7,000	167	120	620
8,000	179	135	655
9,000	190	140	710
10,000	200	145	720
20,000	283	200	960
30,000	350	250	1,120
40,000	400	275	1,300
50,000	447	310	1,430
60,000	490	335	1,510
70,000	529	360	1,630
80,000	566	380	1,720
90,000	600	400	1,800
100,000	632	415	1,875
200,000	894	590	2,550
300,000	1,095	700	3,000
400,000	1,265	800	3,400
500,000	1,414	890	3,600
600,000	1,549	980	4,000
700,000	1,673	1,050	4,200
800,000	1,789	1,120	4,500
900,000	1,897	1,180	4,800
1,000,000	2,000	1,200	5,000

Area In Square Feet Diked	Fire Width	ASD Bldgs	ASD People
100	10	10	60
200	14	13	80
300	17	15	90
400	20	17	107
500	22	18	115
600	24	21	122
700	26	22	130
800	28	24	140
900	30	25	150
1,000	32	27	160
2,000	45	37	210
3,000	55	44	245
4,000	63	50	275
5,000	71	58	305
6,000	77	60	325
7,000	84	65	350
8,000	89	68	365
9,000	95	73	390
10,000	100	76	400
20,000	141	105	565
30,000	173	125	640
40,000	200	145	720
50,000	224	165	800
60,000	245	175	865
70,000	265	190	905
80,000	283	200	960
90,000	300	215	1,020
100,000	316	220	1,030
200,000	447	310	1,430
300,000	548	370	1,700
400,000	632	415	1,875
500,000	707	470	2,005
600,000	775	510	2,250
700,000	837	550	2,480
800,000	894	590	2,550
900,000	949	620	2,650
1,000,000	1,000	650	2,750

ASD is Dependent upon the accuracy of reading the graph.

Fire width has been calculated for the gallons/area shown. The formula for undiked fire width is two times the square root of gallons; for diked fire width, the formula is the square root of the area in square feet.