

Effective Range of Solid Fire Streams

Showing the distance in feet from the nozzle at which streams will do effective work with a moderate wind blowing. With a strong wind, the reach is greatly reduced. Vertical distances are with nozzle elevated 60° to 75°; horizontal distances with nozzle elevated 30° to 35°.

Pressure at Nozzle	SIZE OF NOZZLE											
	1-in.		1 1/8-in.		1 1/4-in.		1 3/8-in.		1 1/2-in.		1 3/4-in.	
	Vertical Distance, Ft	Horizontal Distance, Ft	Vertical Distance, Ft	Horizontal Distance, Ft	Vertical Distance, Ft	Horizontal Distance, Ft	Vertical Distance, Ft	Horizontal Distance, Ft	Vertical Distance, Ft	Horizontal Distance, Ft	Vertical Distance, Ft	Horizontal Distance, Ft
20	35	37	36	38	36	39	36	40	37	42		
25	43	42	44	44	45	46	45	47	46	49		
30	51	47	52	50	52	52	53	54	54	56		
35	58	51	59	54	59	58	60	59	62	62		
40	64	55	65	59	65	62	66	64	69	66		
45	69	58	70	63	70	66	72	68	74	71		
50	73	61	75	66	75	69	77	72	79	75		
55	76	64	79	69	80	72	81	75	83	78		
60	79	67	83	72	84	75	85	77	87	80		
65	82	70	86	75	87	78	88	79	90	82		
70	85	72	88	77	90	80	91	82	92	84		
75	87	74	90	79	92	82	93	84	94	86		
80	89	76	92	81	94	84	95	86	96	88		
85	91	78	94	83	96	87	97	88	98	90		
90	92	80	96	85	98	89	99	90	100	91		

Note: Nozzle pressures are as indicated by Pitot tube. The horizontal and vertical distances are based on experiments by Mr. John R. Freeman. *Transactions Am. Soc. C.E., Vol. XXI.*

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