



Hose Reel Sprinkler Performance Chart

1400IRL/450M

PE HOSE: O.D. mm			FIELD-PIPE LENGTH MT					SPEED MT/H		SPEED MT/H		SPEED MT/H		SPEED MT/H		SPEED MT/H		SPEED MT/H		SPEED MT/H		SPEED MT/H		SPEED MT/H			
140			450					10		20		30		40		50		60		70		80		90		100	
nozzle diam mm	nozzle pres bar	theoric throw mt	Flow mc/h	Flow l/min	Flow l/s	Pull to pull dist. mt	Irrigated area per pull Ha	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar
30	3	40.50	58.6	977	16	64.8	2.92	90	4.0	45	4.2	30	4.4	23	4.5	18	4.7	15	4.9	13	5.0	11	5.2	10	5.4	9	5.5
30	4.0	46.77	67.7	1128	18.8	74.8	3.37	90	5.3	45	5.5	30	5.7	23	5.8	18	6.0	15	6.2	13	6.3	11	6.5	10	6.7	9	6.8
30	5	52.29	75.6	1261	21.0	83.7	3.76	90	6.6	45	6.7	30	6.9	23	7.1	18	7.2	15	7.4	13	7.6	11	7.7	10	7.9	9	8.1
30	6	57.28	82.9	1381	23.0	91.6	4.12	90	7.8	45	8.0	30	8.2	23	8.3	18	8.5	15	8.7	13	8.8	11	9.0	10	9.2	9	9.3
30	7	61.86	89.5	1492	24.9	99.0	4.45	90	9.1	45	9.3	30	9.4	23	9.6	18	9.8	15	9.9	13	10.1	11	10.3	10	10.4	9	10.6
32	3	41.83	66.7	1111	18.5	66.9	3.01	100	4.3	50	4.5	33	4.6	25	4.8	20	5.0	17	5.1	14	5.3	12	5.5	11	5.6	10	5.8
32	4.0	48.30	77.0	1283	21.4	77.3	3.48	100	5.6	50	5.8	33	6.0	25	6.1	20	6.3	17	6.5	14	6.6	12	6.8	11	7.0	10	7.1
32	5	54.00	86.1	1434	23.9	86.4	3.89	100	7.0	50	7.1	33	7.3	25	7.5	20	7.6	17	7.8	14	8.0	12	8.1	11	8.3	10	8.5
32	6	59.15	94.3	1571	26.2	94.6	4.26	100	8.3	50	8.5	33	8.6	25	8.8	20	9.0	17	9.1	14	9.3	12	9.5	11	9.6	10	9.8
32	7	63.89	101.8	1697	28.3	102.2	4.60	100	9.6	50	9.8	33	10.0	25	10.1	20	10.3	17	10.5	14	10.6	12	10.8	11	11.0	10	11.1
34	3	43.12	75.3	1254	20.9	69.0	3.10	109	4.6	55	4.7	36	4.9	27	5.1	22	5.2	18	5.4	16	5.6	14	5.7	12	5.9	11	6.1
34	4.0	49.79	86.9	1448	24.1	79.7	3.58	109	6.0	55	6.2	36	6.3	27	6.5	22	6.7	18	6.8	16	7.0	14	7.2	12	7.3	11	7.5
34	5	55.66	97.2	1619	27.0	89.1	4.01	109	7.4	55	7.6	36	7.8	27	7.9	22	8.1	18	8.3	16	8.4	14	8.6	12	8.8	11	8.9
34	6	60.97	106.4	1774	29.6	97.6	4.39	109	8.8	55	9.0	36	9.2	27	9.3	22	9.5	18	9.7	16	9.8	14	10.0	12	10.2	11	10.3
34	7	65.86	115.0	1916	31.9	105.4	4.74	109	10.2	55	10.4	36	10.6	27	10.7	22	10.9	18	11.1	16	11.2	14	11.4	12	11.6	11	11.7
36	4	51.23	97.4	1624	27.1	82.0	3.69	119	6.4	59	6.6	40	6.8	30	6.9	24	7.1	20	7.3	17	7.4	15	7.6	13	7.8	12	7.9
36	5.0	57.28	108.9	1815	30.3	91.6	4.12	119	7.9	59	8.1	40	8.3	30	8.4	24	8.6	20	8.8	17	8.9	15	9.1	13	9.3	12	9.4
36	6	62.74	119.3	1989	33.1	100.4	4.52	119	9.5	59	9.6	40	9.8	30	10.0	24	10.1	20	10.3	17	10.5	15	10.6	13	10.8	12	11.0
36	7	67.77	128.9	2148	35.8	108.4	4.88	119	11.0	59	11.1	40	11.3	30	11.5	24	11.6	20	11.8	17	12.0	15	12.1	13	12.3	12	12.5

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140			450					10		20		30		40		50		60		70		80		90		100	
nozzle diam mm	nozzle pres bar	theoric throw mt	Flow mc/h	Flow l/min	Flow l/s	Pull to pull dist. mt	Irrigated area per pull Ha	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar
36	8	72.45	137.8	2296	38.3	115.9	5.22	119	12.5	59	12.6	40	12.8	30	13.0	24	13.1	20	13.3	17	13.5	15	13.6	13	13.8	12	14.0
38	4	52.63	108.5	1809	30.2	84.2	3.79	129	6.9	64	7.1	43	7.3	32	7.4	26	7.6	21	7.8	18	7.9	16	8.1	14	8.3	13	8.4
38	5	58.85	121.4	2023	33.7	94.2	4.24	129	8.6	64	8.7	43	8.9	32	9.1	26	9.2	21	9.4	18	9.6	16	9.7	14	9.9	13	10.1
38	6	64.46	132.9	2216	36.9	103.1	4.64	129	10.2	64	10.4	43	10.5	32	10.7	26	10.9	21	11.0	18	11.2	16	11.4	14	11.5	13	11.7
38	7	69.63	143.6	2393	39.9	111.4	5.01	129	11.8	64	12.0	43	12.1	32	12.3	26	12.5	21	12.6	18	12.8	16	13.0	14	13.1	13	13.3
38	8	74.43	153.5	2558	42.6	119.1	5.36	129	13.4	64	13.6	43	13.8	32	13.9	26	14.1	21	14.3	18	14.4	16	14.6	14	14.8	13	14.9
40	4	54.00	120.3	2005	33.4	86.4	3.89	139	7.5	70	7.7	46	7.8	35	8.0	28	8.2	23	8.3	20	8.5	17	8.7	15	8.8	14	9.0
40	5	60.37	134.5	2241	37.4	96.6	4.35	139	9.3	70	9.4	46	9.6	35	9.8	28	9.9	23	10.1	20	10.3	17	10.4	15	10.6	14	10.8
40	6	66.14	147.3	2455	40.9	105.8	4.76	139	11.0	70	11.2	46	11.4	35	11.5	28	11.7	23	11.9	20	12.0	17	12.2	15	12.4	14	12.5
40	7	71.44	159.1	2652	44.2	114.3	5.14	139	12.8	70	12.9	46	13.1	35	13.3	28	13.4	23	13.6	20	13.8	17	13.9	15	14.1	14	14.3
40	8	76.37	170.1	2835	47.2	122.2	5.50	139	14.5	70	14.7	46	14.9	35	15.0	28	15.2	23	15.4	20	15.5	17	15.7	15	15.9	14	16.0
42	4	55.33	132.6	2210	36.8	88.5	3.98	150	8.2	75	8.3	50	8.5	37	8.7	30	8.8	25	9.0	21	9.2	19	9.3	17	9.5	15	9.7
42	5	61.86	148.3	2471	41.2	99.0	4.45	150	10.1	75	10.3	50	10.4	37	10.6	30	10.8	25	10.9	21	11.1	19	11.3	17	11.4	15	11.6
42	6	67.77	162.4	2707	45.1	108.4	4.88	150	12.0	75	12.2	50	12.3	37	12.5	30	12.7	25	12.8	21	13.0	19	13.2	17	13.3	15	13.5
42	7	73.20	175.4	2924	48.7	117.1	5.27	150	13.9	75	14.1	50	14.2	37	14.4	30	14.6	25	14.7	21	14.9	19	15.1	17	15.2	15	15.4
42	8	78.25	187.5	3125	52.1	125.2	5.63	150	15.8	75	15.9	50	16.1	37	16.3	30	16.4	25	16.6	21	16.8	19	16.9	17	17.1	15	17.3