



UNIVERSAL APPLICATION RATE CHART FOR 10" TIP SPACING

TIP CAPACITY	LIQUID PRESSURE IN PSI	CAPACITY ONE TIP IN GPM	CAPACITY ONE TIP IN OZ/MIN	GALLONS PER ACRE – 10" SPRAY TIP SPACING											
				4 MPH	5 MPH	6 MPH	7 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH	22 MPH
01	15	0.061	7.8	9.1	7.2	6.0	5.2	4.5	3.6	3.0	2.6	2.3	2.0	1.8	1.6
	20	0.071	9.1	10.5	8.4	7.0	6.0	5.3	4.2	3.5	3.0	2.6	2.3	2.1	1.9
	30	0.087	11	12.9	10.3	8.6	7.4	6.5	5.2	4.3	3.7	3.2	2.9	2.6	2.3
	40	0.10	13	14.9	11.9	9.9	8.5	7.4	5.9	5.0	4.2	3.7	3.3	3.0	2.7
	50	0.11	14	16.3	13.1	10.9	9.3	8.2	6.5	5.4	4.7	4.1	3.6	3.3	3.0
	60	0.12	15	17.8	14.3	11.9	10.2	8.9	7.1	5.9	5.1	4.4	4.0	3.6	3.2
	75	0.14	18	21	16.6	13.9	11.9	10.4	8.3	6.9	5.9	5.2	4.6	4.2	3.8
90	0.15	19	22	17.8	14.9	12.7	11.1	8.9	7.4	6.4	5.6	5.0	4.5	4.1	
015	15	0.092	12	13.7	10.9	9.1	7.8	6.8	5.5	4.6	3.9	3.4	3.0	2.7	2.5
	20	0.11	14	16.3	13.1	10.9	9.3	8.2	6.5	5.4	4.7	4.1	3.6	3.3	3.0
	30	0.13	17	19.3	15.4	12.9	11.0	9.7	7.7	6.4	5.5	4.8	4.3	3.9	3.5
	40	0.15	19	22	17.8	14.9	12.7	11.1	8.9	7.4	6.4	5.6	5.0	4.5	4.1
	50	0.17	22	25	20	16.8	14.4	12.6	10.1	8.4	7.2	6.3	5.6	5.0	4.6
	60	0.18	23	27	21	17.8	15.3	13.4	10.7	8.9	7.6	6.7	5.9	5.3	4.9
	75	0.21	27	31	25	21	17.8	15.6	12.5	10.4	8.9	7.8	6.9	6.2	5.7
90	0.23	29	34	27	23	19.5	17.1	13.7	11.4	9.8	8.5	7.6	6.8	6.2	
02	15	0.12	15	17.8	14.3	11.9	10.2	8.9	7.1	5.9	5.1	4.5	4.0	3.6	3.2
	20	0.14	18	21	16.6	13.9	11.9	10.4	8.3	6.9	5.9	5.2	4.6	4.2	3.8
	30	0.17	22	25	20	16.8	14.4	12.6	10.1	8.4	7.2	6.3	5.6	5.0	4.6
	40	0.20	26	30	24	19.8	17.0	14.9	11.9	9.9	8.5	7.4	6.6	5.9	5.4
	50	0.22	28	33	26	22	18.7	16.3	13.1	10.9	9.3	8.2	7.3	6.5	5.9
	60	0.24	31	36	29	24	20	17.8	14.3	11.9	10.2	8.9	7.9	7.1	6.5
	75	0.27	35	40	32	27	23	20	16.0	13.4	11.5	10.0	8.9	8.0	7.3
90	0.30	38	45	36	30	25	22	17.8	14.9	12.7	11.1	9.9	8.9	8.1	
025	15	0.15	19	22	17.8	14.9	12.7	11.1	8.9	7.4	6.4	5.6	5.0	4.5	4.1
	20	0.18	23	27	21	17.8	15.3	13.4	10.7	8.9	7.6	6.7	5.9	5.3	4.9
	30	0.22	28	33	26	22	18.7	16.3	13.1	10.9	9.3	8.2	7.3	6.5	5.9
	40	0.25	32	37	30	25	21	18.6	14.9	12.4	10.6	9.3	8.3	7.4	6.8
	50	0.28	36	42	33	28	24	21	16.6	13.9	11.9	10.4	9.2	8.3	7.6
	60	0.31	40	46	37	31	26	23	18.4	15.3	13.2	11.5	10.2	9.2	8.4
	75	0.34	44	50	40	34	29	25	20	16.8	14.4	12.6	11.2	10.1	9.2
90	0.38	49	56	45	38	32	28	23	18.8	16.1	14.1	12.5	11.3	10.3	
03	15	0.18	23	27	21	17.8	15.3	13.4	10.7	8.9	7.6	6.7	5.9	5.3	4.9
	20	0.21	27	31	25	21	17.8	15.6	12.5	10.4	8.9	7.8	6.9	6.2	5.7
	30	0.26	33	39	31	26	22	19.3	15.4	12.9	11.0	9.7	8.6	7.7	7.0
	40	0.30	38	45	36	30	25	22	17.8	14.9	12.7	11.1	9.9	8.9	8.1
	50	0.34	44	50	40	34	29	25	20	16.8	14.4	12.6	11.2	10.1	9.2
	60	0.37	47	55	44	37	31	27	22	18.3	15.7	13.7	12.2	11.0	10.0
	75	0.41	52	61	49	41	35	30	24	20	17.4	15.2	13.5	12.2	11.1
90	0.45	58	67	53	45	38	33	27	22	19.1	16.7	14.9	13.4	12.2	
035	15	0.21	27	31	25	21	17.8	15.6	12.5	10.4	8.9	7.8	6.9	6.2	5.7
	20	0.25	32	37	30	25	21	18.6	14.9	12.4	10.6	9.3	8.3	7.4	6.8
	30	0.30	38	45	36	30	25	22	17.8	14.9	12.7	11.1	9.9	8.9	8.1
	40	0.35	45	52	42	35	30	26	21	17.3	14.9	13.0	11.6	10.4	9.5
	50	0.39	50	58	46	39	33	29	23	19.3	16.5	14.5	12.9	11.6	10.5
	60	0.43	55	64	51	43	36	32	26	21	18.2	16.0	14.2	12.8	11.6
	75	0.48	61	71	57	48	41	36	29	24	20	17.8	15.8	14.3	13.0
90	0.53	68	79	63	52	45	39	31	26	22	19.7	17.5	15.7	14.3	
04	15	0.24	31	36	29	24	20	17.8	14.3	11.9	10.2	8.9	7.9	7.1	6.5
	20	0.28	36	42	33	28	24	21	16.6	13.9	11.9	10.4	9.2	8.3	7.6
	30	0.35	45	52	42	35	30	26	21	17.3	14.9	13.0	11.6	10.4	9.5
	40	0.40	51	59	48	40	34	30	24	19.8	17.0	14.9	13.2	11.9	10.8
	50	0.45	58	67	53	45	38	33	27	22	19.1	16.7	14.9	13.4	12.2
	60	0.49	63	73	58	49	42	36	29	24	21	18.2	16.2	14.6	13.2
	75	0.55	70	82	65	54	47	41	33	27	23	20	18.2	16.3	14.9
90	0.60	77	89	71	59	51	45	36	30	25	22	19.8	17.8	16.2	
05	15	0.31	40	46	37	31	26	23	18.4	15.3	13.2	11.5	10.2	9.2	8.4
	20	0.35	45	52	42	35	30	26	21	17.3	14.9	13.0	11.6	10.4	9.5
	30	0.43	55	64	51	43	36	32	26	21	18.2	16.0	14.2	12.8	11.6
	40	0.50	64	74	59	50	42	37	30	25	21	18.6	16.5	14.9	13.5
	50	0.56	72	83	67	55	48	42	33	28	24	21	18.5	16.6	15.1
	60	0.61	78	91	72	60	52	45	36	30	26	23	20	18.1	16.5
	75	0.68	87	101	81	67	58	50	40	34	29	25	22	20	18.4
90	0.75	96	111	89	74	64	56	45	37	32	28	25	22	20	
06	15	0.37	47	55	44	37	31	27	22	18.3	15.7	13.7	12.2	11.0	10.0
	20	0.42	54	62	50	42	36	31	25	21	17.8	15.6	13.9	12.5	11.3
	30	0.52	67	77	62	51	44	39	31	26	22	19.3	17.2	15.4	14.0
	40	0.60	77	89	71	59	51	45	36	30	25	22	19.8	17.8	16.2
	50	0.67	86	99	80	66	57	50	40	33	28	24	21	19.9	18.1
	60	0.73	93	108	87	72	62	54	43	36	31	27	24	22	19.7
	75	0.82	105	122	97	81	70	61	49	41	35	30	27	24	22
90	0.90	115	134	107	89	76	67	53	45	38	33	30	27	24	
08	15	0.49	63	73	58	49	42	36	29	24	21	18.2	16.2	14.6	13.2
	20	0.57	73	85	68	56	48	42	34	28	24	21	18.8	16.9	15.4
	30	0.69	88	102	82	68	59	51	41	34	29	26	23	20	18.6
	40	0.80	102	119	95	79	68	59	48	40	34	30	26	24	22
	50	0.89	114	132	106	88	76	66	53	44	38	33	29	26	24
	60	0.98	125	146	116	97	83	73	58	49	42	36	32	29	26
	75	1.10	141	163	131	109	93	82	65	54	47	41	36	33	30
90	1.20	154	178	143	119	102	89	71	59	51	45	40	36	32	
10	15	0.61	78	91	72	60	52	45	36	30	26	23	20	18.1	16.5
	20	0.71	91	105	84	70	60	53	42	35	30	26	23	21	19.2
	30	0.87	111	129	103	86	74	65	52	43	37	32	29	26	23
	40	1.00	128	149	119	99	85	74	59	50	42	37	33	30	27
	50	1.12	143	166	133	111	95	83	67	55	48	42	37	33	30
	60	1.22	156	181	145	121	104	91	72	60	52	45	40	36	33
	75	1.37	175	203	163	136	116	102	81	68	58	51	45	41	37
90	1.50	192	223	178	149	127	111	89	74	64	56	50	45	41	
12	15	0.73	93	108	87	72	62	54	43	36	31	27	24	22	19.7
	20	0.85	109	126	101	84	72	63	50	42	36	32	28	25	23
	30	1.04	133	154	124	103	88	77	62	51	44	39	34	31	28
	40	1.20	154	178	143	119	102	89	71	59	51	45	40	36	32
	50	1.34	172	199	159	133	114	99	80	66	57	50	44	40	36
	60	1.47	188	218	175	146	125	109	87	73	62	55	49	44	40
	75	1.64	210	244	195	162	139	122	97	81	70	61	54	49	44
90	1.80	230	267	214	178	153	134	107	89	76	67	59	53	49	
15	15	0.92	118	137	109	91	78	68	55	46	39	34	30	27	25
	20	1.06	136	157	126	105	90	79	63	52	45	39	35	31	29
	30	1.30													



UNIVERSAL APPLICATION RATE CHART FOR 15" TIP SPACING

REVISED 3/2023

TIP CAPACITY	LIQUID PRESSURE IN PSI	CAPACITY ONE TIP IN GPM	CAPACITY ONE TIP IN OZ/MIN	GALLONS PER ACRE – 15" SPRAY TIP SPACING											
				4 MPH	5 MPH	6 MPH	7 MPH	8 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	20 MPH	22 MPH
01	15	0.061	7.8	6.0	4.8	4.0	3.5	3.0	2.4	2.0	1.7	1.5	1.3	1.2	1.1
	20	0.071	9.1	7.0	5.6	4.7	4.0	3.5	2.8	2.3	2.0	1.8	1.6	1.4	1.3
	30	0.087	11	8.6	6.9	5.7	4.9	4.3	3.4	2.9	2.5	2.2	1.9	1.7	1.6
	40	0.10	13	10.9	7.9	6.6	5.7	5.0	4.0	3.3	2.8	2.5	2.2	2.0	1.8
	50	0.11	14	11.9	8.7	7.3	6.2	5.4	4.4	3.6	3.1	2.7	2.4	2.2	2.0
	60	0.12	15	12.9	9.5	7.9	6.8	5.9	4.8	4.0	3.4	3.0	2.6	2.4	2.2
75	0.14	18	13.9	11.1	9.2	7.9	6.9	5.5	4.6	4.0	3.5	3.0	2.8	2.5	
90	0.15	19	14.9	11.9	9.9	8.5	7.4	5.9	5.0	4.2	3.7	3.3	3.0	2.7	
015	15	0.092	12	9.1	7.3	6.1	5.2	4.6	3.6	3.0	2.6	2.3	2.0	1.8	1.7
	20	0.11	14	10.9	8.7	7.3	6.2	5.4	4.4	3.6	3.1	2.7	2.4	2.2	2.0
	30	0.13	17	12.9	10.3	8.6	7.4	6.4	5.1	4.3	3.7	3.2	2.9	2.6	2.3
	40	0.15	19	14.9	11.9	9.9	8.5	7.4	5.9	5.0	4.2	3.7	3.3	3.0	2.7
	50	0.17	22	16.8	13.5	11.2	9.6	8.4	6.7	5.6	4.8	4.2	3.7	3.4	3.1
	60	0.18	23	17.8	14.3	11.9	10.2	8.9	7.1	5.9	5.1	4.5	4.0	3.6	3.2
75	0.21	27	21	16.6	13.9	11.9	10.4	8.3	6.9	5.9	5.2	4.6	4.2	3.8	
90	0.23	29	23	18.2	15.2	13.0	11.4	9.1	7.6	6.5	5.7	5.1	4.6	4.1	
02	15	0.12	15	11.9	9.5	7.9	6.8	5.9	4.8	4.0	3.4	3.0	2.6	2.4	2.2
	20	0.14	18	13.9	11.1	9.2	7.9	6.9	5.5	4.6	4.0	3.5	3.1	2.8	2.5
	30	0.17	22	16.8	13.5	11.2	9.6	8.4	6.7	5.6	4.8	4.2	3.7	3.4	3.1
	40	0.19	26	19.8	15.3	12.7	11.3	9.9	7.9	6.6	5.7	5.0	4.4	4.0	3.6
	50	0.22	28	22	17.4	14.5	12.4	10.9	8.7	7.3	6.2	5.4	4.8	4.4	4.0
	60	0.24	31	24	19.0	15.8	13.6	11.9	9.5	7.9	6.8	5.9	5.3	4.8	4.3
75	0.27	35	27	21	17.8	15.3	13.4	10.7	8.9	7.6	6.7	5.9	5.3	4.9	
90	0.30	38	30	24	19.8	17.0	14.9	11.9	9.9	8.5	7.4	6.6	5.9	5.4	
025	15	0.15	19	14.9	11.9	9.9	8.5	7.4	5.9	5.0	4.2	3.7	3.3	3.0	2.7
	20	0.18	23	17.8	14.3	11.9	10.2	8.9	7.1	5.9	5.1	4.5	4.0	3.6	3.2
	30	0.22	28	22	17.4	14.5	12.4	10.9	8.7	7.3	6.2	5.4	4.8	4.4	4.0
	40	0.25	32	25	19.8	16.5	14.1	12.4	9.9	8.3	7.1	6.2	5.5	5.0	4.5
	50	0.28	36	28	22	18.5	15.8	13.9	11.1	9.2	7.9	6.9	6.2	5.5	5.0
	60	0.31	40	31	25	20	17.5	15.3	12.3	10.2	8.8	7.7	6.8	6.1	5.6
75	0.34	44	34	27	22	19.2	16.8	13.5	11.2	9.6	8.4	7.5	6.7	6.1	
90	0.38	49	38	30	25	21	18.8	15.0	12.5	10.7	9.4	8.4	7.5	6.8	
03	15	0.18	23	17.8	14.3	11.9	10.2	8.9	7.1	5.9	5.1	4.5	4.0	3.6	3.2
	20	0.21	27	21	16.6	13.9	11.9	10.4	8.3	6.9	5.9	5.2	4.6	4.2	3.8
	30	0.26	33	26	21	17.2	14.7	12.9	10.3	8.6	7.4	6.4	5.7	5.1	4.7
	40	0.30	38	30	24	19.8	17.0	14.9	11.9	9.9	8.5	7.4	6.5	5.9	5.4
	50	0.34	44	34	27	22	19.2	16.8	13.5	11.2	9.6	8.4	7.5	6.7	6.1
	60	0.37	47	37	29	24	21	18.3	14.7	12.2	10.5	9.2	8.1	7.3	6.7
75	0.41	52	41	32	27	23	20	16.2	13.5	11.6	10.1	9.0	8.1	7.4	
90	0.45	58	45	36	30	25	22	17.8	14.9	12.7	11.1	9.9	8.9	8.1	
035	15	0.21	27	21	16.6	13.9	11.9	10.4	8.3	6.9	5.9	5.2	4.6	4.2	3.8
	20	0.25	32	25	19.8	16.5	14.1	12.4	9.9	8.3	7.1	6.2	5.5	5.0	4.5
	30	0.30	38	30	24	19.8	17.0	14.9	11.9	9.9	8.5	7.4	6.6	5.9	5.4
	40	0.35	45	35	28	23	19.8	17.3	13.9	11.6	9.9	8.7	7.7	6.9	6.3
	50	0.39	50	39	31	26	22	19.3	15.4	12.9	11.0	9.7	8.6	7.7	7.0
	60	0.43	55	43	34	28	24	21	17.0	14.2	12.2	10.6	9.5	8.5	7.7
75	0.48	61	48	38	32	27	24	19.0	15.8	13.6	11.9	10.6	9.5	8.6	
90	0.53	68	52	42	35	30	26	21	17.5	15.0	13.1	11.7	10.5	9.5	
04	15	0.24	31	24	19.0	15.8	13.6	11.9	9.5	7.9	6.8	5.9	5.3	4.8	4.3
	20	0.28	36	28	22	18.5	15.8	13.9	11.1	9.2	7.9	6.9	6.2	5.5	5.0
	30	0.35	45	35	28	23	19.8	17.3	13.9	11.6	9.9	8.7	7.7	6.9	6.3
	40	0.40	51	40	32	26	23	19.8	15.8	13.2	11.3	9.9	8.8	7.9	7.2
	50	0.45	58	45	36	30	25	22	17.8	14.9	12.7	11.1	9.9	8.9	8.1
	60	0.49	63	49	39	32	28	24	19.4	16.2	13.9	12.1	10.8	9.7	8.8
75	0.55	70	54	44	36	31	27	22	18.2	15.6	13.6	12.1	10.9	9.9	
90	0.60	77	59	48	40	34	30	24	19.8	17.0	14.9	13.2	11.9	10.8	
05	15	0.31	40	31	25	20	17.5	15.3	12.3	10.2	8.8	7.7	6.8	6.1	5.6
	20	0.35	45	35	28	23	19.8	17.3	13.9	11.6	9.9	8.7	7.7	6.9	6.3
	30	0.43	55	43	34	28	24	21	17.0	14.2	12.2	10.6	9.5	8.5	7.7
	40	0.50	64	50	40	33	28	25	19.8	16.5	14.1	12.4	11.0	9.9	9.0
	50	0.56	72	55	44	37	32	28	22	18.5	15.8	13.9	12.3	11.1	10.1
	60	0.61	78	60	48	40	35	30	24	20	17.3	15.1	13.4	12.1	11.0
75	0.68	87	67	54	45	38	34	27	22	19.2	16.8	15.0	13.5	12.2	
90	0.75	96	74	59	50	42	37	30	25	21	18.6	16.5	14.9	13.5	
06	15	0.37	47	37	29	24	21	18.3	14.7	12.2	10.5	9.2	8.1	7.3	6.7
	20	0.42	54	42	33	28	24	21	16.6	13.9	11.9	10.4	9.2	8.1	7.3
	30	0.52	67	51	41	34	29	26	21	17.2	14.7	12.9	11.4	10.3	9.4
	40	0.60	77	59	48	40	34	30	24	19.8	17.0	14.9	13.2	11.9	10.8
	50	0.67	86	66	53	44	38	33	27	22	19.0	16.6	14.7	13.3	12.1
	60	0.73	93	72	58	48	41	36	29	24	21	18.1	16.1	14.5	13.1
75	0.82	105	81	65	54	46	41	32	27	23	20	18.0	16.2	14.8	
90	0.90	115	89	71	59	51	45	36	30	25	22	19.8	17.8	16.2	
08	15	0.49	63	49	39	32	28	24	19.4	16.2	13.9	12.1	10.8	9.7	8.8
	20	0.57	73	56	45	38	32	28	23	18.8	16.1	14.1	12.5	11.3	10.3
	30	0.69	88	68	55	46	39	34	27	23	19.5	17.1	15.2	13.7	12.4
	40	0.80	102	79	63	53	45	40	32	26	23	19.8	17.6	15.8	14.4
	50	0.89	114	88	70	59	50	44	35	29	25	22	19.6	17.6	16.0
	60	0.98	125	97	78	65	55	49	39	32	28	24	22	19.4	17.6
75	1.10	141	109	87	73	62	54	44	36	31	27	24	22	19.8	
90	1.20	154	119	95	79	68	59	48	40	34	30	26	24	22	
10	15	0.61	78	60	48	40	35	30	24	20	17.3	15.1	13.4	12.1	11.0
	20	0.71	91	70	56	47	40	35	28	23	20	17.6	15.6	14.1	12.8
	30	0.87	111	86	69	57	49	43	34	29	25	22	19.1	17.2	15.7
	40	1.00	128	99	79	66	57	50	40	33	28	25	22	19.8	18.0
	50	1.12	143	111	89	74	63	55	44	37	32	28	25	22	20
	60	1.22	156	121	97	81	69	60	48	40	35	30	27	24	22
75	1.37	175	136	109	90	78	68	54	45	39	34	30	27	25	
90	1.50	192	149	119	99	85	74	59	50	42	37	33	30	27	
12	15	0.73	93	72	58	48	41	36	29	24	21	18.1	16.1	14.5	13.1
	20	0.85	109	84	67	56	48	42	34	28	24	21	18.7	16.8	15.3
	30	1.04	133	103	82	69	59	51	41	34	29	26	23	21	18.7
	40	1.20	154	119	95	79	68	59	48	40	34	30	26	24	22
	50	1.34	172	133	106	88	76	66	53	44	38	33	29	27	24
	60	1.47	188	146	116	97	83	73	58	49	42	36	32	29	26
75	1.64	210	162	130	108	93	81	65	54	46	41	36	32	30	
90	1.80	230	178	143	119	102	89	71	59	51	45	40	36	32	
15	15	0.92	118	91	73	61									