

# ES Selection

Nozzle	PSI	Capacity per nozzle		GALLONS/ACRE @ 20" Spacing								
		G P M	oz./min.	4 mph	5 mph	6 mph	7 mph	8 mph	9 mph	10 mph	12 mph	14 mph
Orange ES 90-01	15	0.061	8	4.5	3.6	3.0	2.6	2.3	2.0	1.8	1.5	1.3
	20	0.071	9	5.3	4.2	3.5	3.0	2.6	2.3	2.1	1.8	1.5
	30	0.087	11	6.5	5.2	4.3	3.7	3.2	2.9	2.6	2.2	1.8
	40	0.10	13	7.4	5.9	5.0	4.2	3.7	3.3	3.0	2.5	2.1
	50	0.11	14	8.2	6.5	5.4	4.7	4.1	3.6	3.3	2.7	2.3
Green ES 90-015	60	0.12	15	8.9	7.1	5.9	5.1	4.5	4.0	3.6	3.0	2.5
	15	0.092	12	6.8	5.5	4.6	3.9	3.4	3.0	2.7	2.3	2.0
	20	0.11	14	8.2	6.5	5.4	4.7	4.1	3.6	3.3	2.7	2.3
	30	0.13	17	9.7	7.7	6.4	5.5	4.8	4.3	3.9	3.2	2.8
	40	0.15	19	11.1	8.9	7.4	6.4	5.6	5.0	4.5	3.7	3.2
Yellow ES 90-02	50	0.17	22	12.6	10.1	8.4	7.2	6.3	5.6	5.0	4.2	3.6
	60	0.18	23	13.4	10.7	8.9	7.6	6.7	5.9	5.3	4.5	3.8
	15	0.12	15	8.9	7.1	5.9	5.1	4.5	4.0	3.6	3.0	2.5
	20	0.14	18	10.4	8.3	6.9	5.9	5.2	4.6	4.2	3.5	3.0
	30	0.17	22	12.6	10.1	8.4	7.2	6.3	5.6	5.0	4.2	3.6
Blue ES 90-03	40	0.20	26	14.9	11.9	9.9	8.5	7.4	6.6	5.9	5.0	4.2
	50	0.22	28	16.3	13.1	10.9	9.3	8.2	7.3	6.5	5.4	4.7
	60	0.24	31	17.8	14.3	11.9	10.2	8.9	7.9	7.1	5.9	5.1
	15	0.18	23	13.4	10.7	8.9	7.6	6.7	5.9	5.3	4.5	3.8
	20	0.21	27	15.6	12.5	10.4	8.9	7.8	6.9	6.2	5.2	4.5
Red ES 90-04	30	0.26	33	19.3	15.4	12.9	11.0	9.7	8.6	7.7	6.4	5.5
	40	0.30	38	22.3	17.8	14.9	12.7	11.1	9.9	8.9	7.4	6.4
	50	0.34	44	25.2	20.2	16.8	14.4	12.6	11.2	10.1	8.4	7.2
	60	0.37	47	27.5	22.0	18.3	15.7	13.7	12.2	11.0	9.2	7.8
	15	0.24	31	17.8	14.3	11.9	10.2	8.9	7.9	7.1	5.9	5.1
Brown ES 90-05	20	0.28	36	20.8	16.6	13.9	11.9	10.4	9.2	8.3	6.9	5.9
	30	0.35	45	26.0	20.8	17.3	14.9	13.0	11.6	10.4	8.7	7.4
	40	0.40	51	29.7	23.8	19.8	17.0	14.9	13.2	11.9	9.9	8.5
	50	0.45	58	33.4	26.7	22.3	19.1	16.7	14.9	13.4	11.1	9.5
	60	0.49	63	36.4	29.1	24.3	20.8	18.2	16.2	14.6	12.1	10.4
Gray ES 90-06	15	0.31	40	23.0	18.4	15.3	13.2	11.5	10.2	9.2	7.7	6.6
	20	0.35	45	26.0	20.8	17.3	14.9	13.0	11.6	10.4	8.7	7.4
	30	0.43	55	31.9	25.5	21.3	18.2	16.0	14.2	12.8	10.6	9.1
	40	0.50	64	37.1	29.7	24.8	21.2	18.6	16.5	14.9	12.4	10.6
	50	0.56	72	41.6	33.3	27.7	23.8	20.8	18.5	16.6	13.9	11.9
White ES 90-08	60	0.61	78	45.3	36.2	30.2	25.9	22.6	20.1	18.1	15.1	12.9
	15	0.37	47	27.5	22.0	18.3	15.7	13.7	12.2	11.0	9.2	7.8
	20	0.42	54	31.2	24.9	20.8	17.8	15.6	13.9	12.5	10.4	8.9
	30	0.52	67	38.6	30.9	25.7	22.1	19.3	17.2	15.4	12.9	11.0
	40	0.60	77	44.6	35.6	29.7	25.5	22.3	19.8	17.8	14.9	12.7
White ES 90-08	50	0.67	86	49.7	39.8	33.2	28.4	24.9	22.1	19.9	16.6	14.2
	60	0.73	93	54.2	43.4	36.1	31.0	27.1	24.1	21.7	18.1	15.5
	15	0.49	63	36.4	29.1	24.3	20.8	18.2	16.2	14.6	12.1	10.4
	20	0.57	73	42.3	33.9	28.2	24.2	21.2	18.8	16.9	14.1	12.1
	30	0.69	88	51.2	41.0	34.2	29.3	25.6	22.8	20.5	17.1	14.6
White ES 90-08	40	0.80	102	59.4	47.5	39.6	33.9	29.7	26.4	23.8	19.8	17.0
	50	0.89	114	66.1	52.9	44.1	37.8	33.0	29.4	26.4	22.0	18.9
	60	0.98	125	72.8	58.2	48.5	41.6	36.4	32.3	29.1	24.3	20.8

Spray pressure at nozzle tip (gauged with diaphragm valve)

GM rates are for water

Verify data by measuring flow rates before each spraying season

### Ordering examples

Type	Spray Angle	Tip Size	Material	=	Order No.
ES	90	04	(brass)	=	ES 90-04 brass
ES	90	04	(polymer)	=	ES 90-04 polymer