

**AI 80°/110° 15" TIP SPACING**

ALL VALUES BASED ON WATER FOR OTHER LIQUIDS SEE USEFUL FORMULAS AND CONVERSIONS

mph			4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	
psi gpm																				
AI80015VS AI110015VS	30	0.130	12.9	11.4	10.3	9.4	8.6	7.9	7.3	6.9	6.4	6.1	5.7	5.4	5.1	4.9	4.7	4.5	4.3	
	40	0.150	14.9	13.2	11.9	10.8	9.9	9.1	8.5	7.9	7.4	7.0	6.6	6.3	5.9	5.7	5.4	5.2	5.0	
100 MESH	50	0.168	16.6	14.8	13.3	12.1	11.1	10.2	9.5	8.9	8.3	7.8	7.4	7.0	6.6	6.3	6.0	5.8	5.5	
	60	0.184	18.2	16.2	14.5	13.2	12.1	11.2	10.4	9.7	9.1	8.6	8.1	7.7	7.3	6.9	6.6	6.3	6.1	
	70	0.198	19.6	17.5	15.7	14.3	13.1	12.1	11.2	10.5	9.8	9.2	8.7	8.3	7.9	7.5	7.1	6.8	6.5	
GREEN	80	0.212	21.0	18.7	16.8	15.3	14.0	12.9	12.0	11.2	10.5	9.9	9.3	8.8	8.4	8.0	7.6	7.3	7.0	
	90	0.225	22.3	19.8	17.8	16.2	14.9	13.7	12.7	11.9	11.1	10.5	9.9	9.4	8.9	8.5	8.1	7.7	7.4	
	100	0.237	23.5	20.9	18.8	17.1	15.7	14.4	13.4	12.5	11.7	11.0	10.4	9.9	9.4	8.9	8.5	8.2	7.8	
AI8002VS AI11002VS	30	0.173	17.1	15.2	13.7	12.5	11.4	10.6	9.8	9.1	8.6	8.1	7.6	7.2	6.9	6.5	6.2	6.0	5.7	
	40	0.200	19.8	17.6	15.8	14.4	13.2	12.2	11.3	10.6	9.9	9.3	8.8	8.3	7.9	7.5	7.2	6.9	6.6	
50 MESH	50	0.224	22.1	19.7	17.7	16.1	14.8	13.6	12.6	11.8	11.1	10.4	9.8	9.3	8.9	8.4	8.0	7.7	7.4	
	60	0.245	24.2	21.6	19.4	17.6	16.2	14.9	13.9	12.9	12.1	11.4	10.8	10.2	9.7	9.2	8.8	8.4	8.1	
	70	0.265	26.2	23.3	21.0	19.0	17.5	16.1	15.0	14.0	13.1	12.3	11.6	11.0	10.5	10.0	9.5	9.1	8.7	
YELLOW	80	0.283	28.0	24.9	22.4	20.4	18.7	17.2	16.0	14.9	14.0	13.2	12.4	11.8	11.2	10.7	10.2	9.7	9.3	
	90	0.300	29.7	26.4	23.8	21.6	19.8	18.3	17.0	15.8	14.9	14.0	13.2	12.5	11.9	11.3	10.8	10.3	9.9	
	100	0.316	31.3	27.8	25.0	22.8	20.9	19.3	17.9	16.7	15.7	14.7	13.9	13.2	12.5	11.9	11.4	10.9	10.4	
AI80025VS AI110025VS	30	0.217	21.4	19.1	17.1	15.6	14.3	13.2	12.2	11.4	10.7	10.1	9.5	9.0	8.6	8.2	7.8	7.5	7.1	
	40	0.250	24.8	22.0	19.8	18.0	16.5	15.2	14.1	13.2	12.4	11.6	11.0	10.4	9.9	9.4	9.0	8.6	8.3	
50 MESH	50	0.280	27.7	24.6	22.1	20.1	18.4	17.0	15.8	14.8	13.8	13.0	12.3	11.7	11.1	10.5	10.1	9.6	9.2	
	60	0.306	30.3	26.9	24.2	22.0	20.2	18.7	17.3	16.2	15.2	14.3	13.5	12.8	12.1	11.5	11.0	10.5	10.1	
	70	0.331	32.7	29.1	26.2	23.8	21.8	20.1	18.7	17.5	16.4	15.4	14.6	13.8	13.1	12.5	11.9	11.4	10.9	
PURPLE	80	0.354	35.0	31.1	28.0	25.5	23.3	21.5	20.0	18.7	17.5	16.5	15.6	14.7	14.0	13.3	12.7	12.2	11.7	
	90	0.375	37.1	33.0	29.7	27.0	24.8	22.8	21.2	19.8	18.6	17.5	16.5	15.6	14.9	14.1	13.5	12.9	12.4	
	100	0.395	39.1	34.8	31.3	28.5	26.1	24.1	22.4	20.9	19.6	18.4	17.4	16.5	15.7	14.9	14.2	13.6	13.0	
AI8003VS AI11003VS	30	0.260	25.7	22.9	20.6	18.7	17.1	15.8	14.7	13.7	12.9	12.1	11.4	10.8	10.3	9.8	9.4	8.9	8.6	
	40	0.300	29.7	26.4	23.8	21.6	19.8	18.3	17.0	15.8	14.9	14.0	13.2	12.5	11.9	11.3	10.8	10.3	9.9	
50 MESH	50	0.335	33.2	29.5	26.6	24.1	22.1	20.4	19.0	17.7	16.6	15.6	14.8	14.0	13.3	12.6	12.1	11.5	11.1	
	60	0.367	36.4	32.3	29.1	26.5	24.2	22.4	20.8	19.4	18.2	17.1	16.2	15.3	14.5	13.9	13.2	12.7	12.1	
	70	0.397	39.3	34.9	31.4	28.6	26.2	24.2	22.5	21.0	19.6	18.5	17.5	16.5	15.7	15.0	14.3	13.7	13.1	
BLUE	80	0.424	42.0	37.3	33.6	30.5	28.0	25.8	24.0	22.4	21.0	19.8	18.7	17.7	16.8	16.0	15.3	14.6	14.0	
	90	0.450	44.6	39.6	35.6	32.4	29.7	27.4	25.5	23.8	22.3	21.0	19.8	18.8	17.8	17.0	16.2	15.5	14.9	
	100	0.474	47.0	41.7	37.6	34.2	31.3	28.9	26.8	25.0	23.5	22.1	20.9	19.8	18.8	17.9	17.1	16.3	15.7	
AI8004VS AI11004VS	30	0.346	34.3	30.5	27.4	24.9	22.9	21.1	19.6	18.3	17.1	16.1	15.2	14.4	13.7	13.1	12.5	11.9	11.4	
	40	0.400	39.6	35.2	31.7	28.8	26.4	24.4	22.6	21.1	19.8	18.6	17.6	16.7	15.8	15.1	14.4	13.8	13.2	
50 MESH	50	0.447	44.3	39.4	35.4	32.2	29.5	27.2	25.3	23.6	22.1	20.8	19.7	18.6	17.7	16.9	16.1	15.4	14.8	
	60	0.490	48.5	43.1	38.8	35.3	32.3	29.8	27.7	25.9	24.2	22.8	21.6	20.4	19.4	18.5	17.6	16.9	16.2	
	70	0.529	52.4	46.6	41.9	38.1	34.9	32.2	29.9	27.9	26.2	24.7	23.3	22.1	21.0	20.0	19.0	18.2	17.5	
RED	80	0.566	56.0	49.8	44.8	40.7	37.3	34.5	32.0	29.9	28.0	26.4	24.9	23.6	22.4	21.3	20.4	19.5	18.7	
	90	0.600	59.4	52.8	47.5	43.2	39.6	36.6	33.9	31.7	29.7	28.0	26.4	25.0	23.8	22.6	21.6	20.7	19.8	
	100	0.632	62.6	55.7	50.1	45.5	41.7	38.5	35.8	33.4	31.3	29.5	27.8	26.4	25.0	23.9	22.8	21.8	20.9	
AI8005VS AI11005VS	30	0.433	42.9	38.1	34.3	31.2	28.6	26.4	24.5	22.9	21.4	20.2	19.1	18.0	17.1	16.3	15.6	14.9	14.3	
	40	0.500	49.5	44.0	39.6	36.0	33.0	30.5	28.3	26.4	24.8	23.3	22.0	20.8	19.8	18.9	18.0	17.2	16.5	
50 MESH	50	0.559	55.3	49.2	44.3	40.2	36.9	34.1	31.6	29.5	27.7	26.0	24.6	23.3	22.1	21.1	20.1	19.2	18.4	
	60	0.612	60.6	53.9	48.5	44.1	40.4	37.3	34.6	32.3	30.3	28.5	26.9	25.5	24.2	23.1	22.0	21.1	20.2	
	70	0.661	65.5	58.2	52.4	47.6	43.7	40.3	37.4	34.9	32.7	30.8	29.1	27.6	26.2	24.9	23.8	22.8	21.8	
BROWN	80	0.707	70.0	62.2	56.0	50.9	46.7	43.1	40.0	37.3	35.0	32.9	31.1	29.5	28.0	26.7	25.5	24.3	23.3	
	90	0.750	74.3	66.0	59.4	54.0	49.5	45.7	42.4	39.6	37.1	34.9	33.0	31.3	29.7	28.3	27.0	25.8	24.8	
	100	0.791	78.3	69.6	62.6	56.9	52.2	48.2	44.7	41.7	39.1	36.8	34.8	33.0	31.3	29.8	28.5	27.2	26.1	
AI8006VS AI11006VS	30	0.520	51.4	45.7	41.2	37.4	34.3	31.7	29.4	27.4	25.7	24.2	22.9	21.7	20.6	19.6	18.7	17.9	17.1	
	40	0.600	59.4	52.8	47.5	43.2	39.6	36.6	33.9	31.7	29.7	28.0	26.4	25.0	23.8	22.6	21.6	20.7	19.8	
50 MESH	50	0.671	66.4	59.0	53.1	48.3	44.3	40.9	37.9	35.4	33.2	31.3	29.5	28.0	26.6	25.3	24.1	23.1	22.1	
	60	0.735	72.7	64.7	58.2	52.9	48.5	44.8	41.6	38.8	36.4	34.2	32.3	30.6	29.1	27.7	26.5	25.3	24.2	
	70	0.794	78.6	69.8	62.9	57.1	52.4	48.4	44.9	41.9	39.3	37.0	34.9	33.1	31.4	29.9	28.6	27.3	26.2	
GRAY	80	0.849	84.0	74.7	67.2	61.1	56.0	51.7	48.0	44.8	42.0	39.5	37.3	35.4	33.6	32.0	30.5	29.2	28.0	
	90	0.900	89.1	79.2	71.3	64.8	59.4	54.8	50.9	47.5	44.6	41.9	39.6	37.5	35.6	33.9	32.4	31.0	29.7	
	100	0.949	93.9	83.5	75.1	68.3	62.6	57.8	53.7	50.1	47.0	44.2	41.7	39.5	37.6	35.8	34.2	32.7	31.3	

**AI 80°/110° 15" TIP SPACING**

ALL VALUES BASED ON WATER FOR OTHER LIQUIDS SEE USEFUL FORMULAS AND CONVERSIONS

mph		4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	
psi gpm																			
AI8008VS AI11008VS	30	0.693	68.6	61.0	54.9	49.9	45.7	42.2	39.2	36.6	34.3	32.3	30.5	28.9	27.4	26.1	24.9	23.9	22.9
	40	0.800	79.2	70.4	63.4	57.6	52.8	48.7	45.3	42.2	39.6	37.3	35.2	33.3	31.7	30.2	28.8	27.5	26.4
50 MESH	50	0.894	88.5	78.7	70.8	64.4	59.0	54.5	50.6	47.2	44.3	41.7	39.4	37.3	35.4	33.7	32.2	30.8	29.5
	60	0.980	97.0	86.2	77.6	70.5	64.7	59.7	55.4	51.7	48.5	45.6	43.1	40.8	38.8	37.0	35.3	33.7	32.3
	70	1.058	104.8	93.1	83.8	76.2	69.8	64.5	59.9	55.9	52.4	49.3	46.6	44.1	41.9	39.9	38.1	36.4	34.9
	80	1.131	112.0	99.6	89.6	81.5	74.7	68.9	64.0	59.7	56.0	52.7	49.8	47.2	44.8	42.7	40.7	39.0	37.3
WHITE	90	1.200	118.8	105.6	95.0	86.4	79.2	73.1	67.9	63.4	59.4	55.9	52.8	50.0	47.5	45.3	43.2	41.3	39.6
	100	1.265	125.2	111.3	100.2	91.1	83.5	77.1	71.6	66.8	62.6	58.9	55.7	52.7	50.1	47.7	45.5	43.6	41.7

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ALL VALUES BASED ON WATER FOR OTHER LIQUIDS SEE USEFUL FORMULAS AND CONVERSIONS

12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	mph	
																gpm	psi
4.1	4.0	3.8	3.7	3.5	3.4	3.3	3.2	3.1	3.0	2.9	2.9	2.8	2.7	2.6	2.6	0.130	30
4.8	4.6	4.4	4.2	4.1	4.0	3.8	3.7	3.6	3.5	3.4	3.3	3.2	3.1	3.0	3.0	0.150	40
5.3	5.1	4.9	4.7	4.6	4.4	4.3	4.2	4.0	3.9	3.8	3.7	3.6	3.5	3.4	3.3	0.168	50
5.8	5.6	5.4	5.2	5.0	4.8	4.7	4.5	4.4	4.3	4.2	4.0	3.9	3.8	3.7	3.6	0.184	60
6.3	6.0	5.8	5.6	5.4	5.2	5.1	4.9	4.8	4.6	4.5	4.4	4.2	4.1	4.0	3.9	0.198	70
6.7	6.5	6.2	6.0	5.8	5.6	5.4	5.3	5.1	4.9	4.8	4.7	4.5	4.4	4.3	4.2	0.212	80
7.1	6.9	6.6	6.4	6.1	5.9	5.7	5.6	5.4	5.2	5.1	5.0	4.8	4.7	4.6	4.5	0.225	90
7.5	7.2	7.0	6.7	6.5	6.3	6.1	5.9	5.7	5.5	5.4	5.2	5.1	4.9	4.8	4.7	0.237	100
																	AI80015VS AI110015VS
5.5	5.3	5.1	4.9	4.7	4.6	4.4	4.3	4.2	4.0	3.9	3.8	3.7	3.6	3.5	3.4	0.173	30
6.3	6.1	5.9	5.7	5.5	5.3	5.1	5.0	4.8	4.7	4.5	4.4	4.3	4.2	4.1	4.0	0.200	40
7.1	6.8	6.6	6.3	6.1	5.9	5.7	5.5	5.4	5.2	5.1	4.9	4.8	4.7	4.5	4.4	0.224	50
7.8	7.5	7.2	6.9	6.7	6.5	6.3	6.1	5.9	5.7	5.5	5.4	5.2	5.1	5.0	4.8	0.245	60
8.4	8.1	7.8	7.5	7.2	7.0	6.8	6.5	6.3	6.2	6.0	5.8	5.7	5.5	5.4	5.2	0.265	70
9.0	8.6	8.3	8.0	7.7	7.5	7.2	7.0	6.8	6.6	6.4	6.2	6.1	5.9	5.7	5.6	0.283	80
9.5	9.1	8.8	8.5	8.2	7.9	7.7	7.4	7.2	7.0	6.8	6.6	6.4	6.3	6.1	5.9	0.300	90
10.0	9.6	9.3	8.9	8.6	8.3	8.1	7.8	7.6	7.4	7.2	7.0	6.8	6.6	6.4	6.3	0.316	100
																	AI80025VS AI110025VS
6.9	6.6	6.4	6.1	5.9	5.7	5.5	5.4	5.2	5.0	4.9	4.8	4.6	4.5	4.4	4.3	0.217	30
7.9	7.6	7.3	7.1	6.8	6.6	6.4	6.2	6.0	5.8	5.7	5.5	5.4	5.2	5.1	5.0	0.250	40
8.9	8.5	8.2	7.9	7.6	7.4	7.1	6.9	6.7	6.5	6.3	6.1	6.0	5.8	5.7	5.5	0.280	50
9.7	9.3	9.0	8.7	8.4	8.1	7.8	7.6	7.3	7.1	6.9	6.7	6.6	6.4	6.2	6.1	0.306	60
10.5	10.1	9.7	9.4	9.0	8.7	8.4	8.2	7.9	7.7	7.5	7.3	7.1	6.9	6.7	6.5	0.331	70
11.2	10.8	10.4	10.0	9.7	9.3	9.0	8.8	8.5	8.2	8.0	7.8	7.6	7.4	7.2	7.0	0.354	80
11.9	11.4	11.0	10.6	10.2	9.9	9.6	9.3	9.0	8.7	8.5	8.3	8.0	7.8	7.6	7.4	0.375	90
12.5	12.0	11.6	11.2	10.8	10.4	10.1	9.8	9.5	9.2	8.9	8.7	8.5	8.2	8.0	7.8	0.395	100
																	AI80035VS AI110035VS
8.2	7.9	7.6	7.3	7.1	6.9	6.6	6.4	6.2	6.1	5.9	5.7	5.6	5.4	5.3	5.1	0.260	30
9.5	9.1	8.8	8.5	8.2	7.9	7.7	7.4	7.2	7.0	6.8	6.6	6.4	6.3	6.1	5.9	0.300	40
10.6	10.2	9.8	9.5	9.2	8.9	8.6	8.3	8.0	7.8	7.6	7.4	7.2	7.0	6.8	6.6	0.335	50
11.6	11.2	10.8	10.4	10.0	9.7	9.4	9.1	8.8	8.6	8.3	8.1	7.9	7.7	7.5	7.3	0.367	60
12.6	12.1	11.6	11.2	10.8	10.5	10.1	9.8	9.5	9.2	9.0	8.7	8.5	8.3	8.1	7.9	0.397	70
13.4	12.9	12.4	12.0	11.6	11.2	10.8	10.5	10.2	9.9	9.6	9.3	9.1	8.8	8.6	8.4	0.424	80
14.3	13.7	13.2	12.7	12.3	11.9	11.5	11.1	10.8	10.5	10.2	9.9	9.6	9.4	9.1	8.9	0.450	90
15.0	14.4	13.9	13.4	13.0	12.5	12.1	11.7	11.4	11.0	10.7	10.4	10.2	9.9	9.6	9.4	0.474	100
																	AI80045VS AI110045VS
11.0	10.6	10.2	9.8	9.5	9.1	8.9	8.6	8.3	8.1	7.8	7.6	7.4	7.2	7.0	6.9	0.346	30
12.7	12.2	11.7	11.3	10.9	10.6	10.2	9.9	9.6	9.3	9.1	8.8	8.6	8.3	8.1	7.9	0.400	40
14.2	13.6	13.1	12.6	12.2	11.8	11.4	11.1	10.7	10.4	10.1	9.8	9.6	9.3	9.1	8.9	0.447	50
15.5	14.9	14.4	13.9	13.4	12.9	12.5	12.1	11.8	11.4	11.1	10.8	10.5	10.2	9.9	9.7	0.490	60
16.8	16.1	15.5	15.0	14.5	14.0	13.5	13.1	12.7	12.3	12.0	11.6	11.3	11.0	10.7	10.5	0.529	70
17.9	17.2	16.6	16.0	15.4	14.9	14.5	14.0	13.6	13.2	12.8	12.4	12.1	11.8	11.5	11.2	0.566	80
19.0	18.3	17.6	17.0	16.4	15.8	15.3	14.9	14.4	14.0	13.6	13.2	12.8	12.5	12.2	11.9	0.600	90
20.0	19.3	18.6	17.9	17.3	16.7	16.2	15.7	15.2	14.7	14.3	13.9	13.5	13.2	12.8	12.5	0.632	100
																	AI80055VS AI110055VS
13.7	13.2	12.7	12.2	11.8	11.4	11.1	10.7	10.4	10.1	9.8	9.5	9.3	9.0	8.8	8.6	0.433	30
15.8	15.2	14.7	14.1	13.7	13.2	12.8	12.4	12.0	11.6	11.3	11.0	10.7	10.4	10.2	9.9	0.500	40
17.7	17.0	16.4	15.8	15.3	14.8	14.3	13.8	13.4	13.0	12.6	12.3	12.0	11.7	11.4	11.1	0.559	50
19.4	18.7	18.0	17.3	16.7	16.2	15.6	15.2	14.7	14.3	13.9	13.5	13.1	12.8	12.4	12.1	0.612	60
21.0	20.1	19.4	18.7	18.1	17.5	16.9	16.4	15.9	15.4	15.0	14.6	14.2	13.8	13.4	13.1	0.661	70
22.4	21.5	20.7	20.0	19.3	18.7	18.1	17.5	17.0	16.5	16.0	15.6	15.1	14.7	14.4	14.0	0.707	80
23.8	22.8	22.0	21.2	20.5	19.8	19.2	18.6	18.0	17.5	17.0	16.5	16.1	15.6	15.2	14.9	0.750	90
25.0	24.1	23.2	22.4	21.6	20.9	20.2	19.6	19.0	18.4	17.9	17.4	16.9	16.5	16.1	15.7	0.791	100
																	AI80065VS AI110065VS
16.5	15.8	15.2	14.7	14.2	13.7	13.3	12.9	12.5	12.1	11.8	11.4	11.1	10.8	10.6	10.3	0.520	30
19.0	18.3	17.6	17.0	16.4	15.8	15.3	14.9	14.4	14.0	13.6	13.2	12.8	12.5	12.2	11.9	0.600	40
21.3	20.4	19.7	19.0	18.3	17.7	17.1	16.6	16.1	15.6	15.2	14.8	14.4	14.0	13.6	13.3	0.671	50
23.3	22.4	21.6	20.8	20.1	19.4	18.8	18.2	17.6	17.1	16.6	16.2	15.7	15.3	14.9	14.5	0.735	60
25.1	24.2	23.3	22.5	21.7	21.0	20.3	19.6	19.0	18.5	18.0	17.5	17.0	16.5	16.1	15.7	0.794	70
26.9	25.8	24.9	24.0	23.2	22.4	21.7	21.0	20.4	19.8	19.2	18.7	18.2	17.7	17.2	16.8	0.849	80
28.5	27.4	26.4	25.5	24.6	23.8	23.0	22.3	21.6	21.0	20.4	19.8	19.3	18.8	18.3	17.8	0.900	90
30.1	28.9	27.8	26.8	25.9	25.0	24.2	23.5	22.8	22.1	21.5	20.9	20.3	19.8	19.3	18.8	0.949	100
																	AI80075VS AI110075VS

**AI 80°/110° 15" TIP SPACING**

ALL VALUES BASED ON WATER FOR OTHER LIQUIDS SEE USEFUL FORMULAS AND CONVERSIONS

12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	mph		
																	gpm psi	
21.9	21.1	20.3	19.6	18.9	18.3	17.7	17.1	16.6	16.1	15.7	15.2	14.8	14.4	14.1	13.7	0.693	30	AI8008VS AI11008VS
25.3	24.4	23.5	22.6	21.8	21.1	20.4	19.8	19.2	18.6	18.1	17.6	17.1	16.7	16.2	15.8	0.800	40	
28.3	27.2	26.2	25.3	24.4	23.6	22.9	22.1	21.5	20.8	20.2	19.7	19.1	18.6	18.2	17.7	0.894	50	50 MESH
31.0	29.8	28.7	27.7	26.8	25.9	25.0	24.2	23.5	22.8	22.2	21.6	21.0	20.4	19.9	19.4	0.980	60	
33.5	32.2	31.0	29.9	28.9	27.9	27.0	26.2	25.4	24.7	23.9	23.3	22.7	22.1	21.5	21.0	1.058	70	
35.8	34.5	33.2	32.0	30.9	29.9	28.9	28.0	27.2	26.4	25.6	24.9	24.2	23.6	23.0	22.4	1.131	80	WHITE
38.0	36.6	35.2	33.9	32.8	31.7	30.7	29.7	28.8	28.0	27.2	26.4	25.7	25.0	24.4	23.8	1.200	90	
40.1	38.5	37.1	35.8	34.5	33.4	32.3	31.3	30.4	29.5	28.6	27.8	27.1	26.4	25.7	25.0	1.265	100	