

AEROVENT

SOUND POWER LEVELS

BAUB - Airfoil Utility Blowers



Aerovent, a Twin City Fan Company, certifies that the fans shown herein are licensed to bear the AMCA Seal for Air and Sound. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

The calculated sound power levels from these ratings are in decibels, referenced to 10-12 watts. Calculated per AMCA Standard 301.

For Air Performance refer to Catalog 760.



BAUB Sound Calculations

The published sound power levels (Lw) have been determined by laboratory tests in accordance with AMCA Standard 300-96 and carry the AMCA Seal for BAUB fans. The sound power levels shown are decibel (dB) levels referenced to 10⁻¹² watts calculated per AMCA Standard 301. We have listed sound power levels for the eight octave bands with frequency range as shown below.

OCTAVE BAND	1	2	3	4	5	6	7	8
FREQUENCY CENTER	45 to 90	90 to 180	180 to 355	355 to 710	710 to 1400	1400 to 2800	2800 to 5600	5600 to 11200
CENTER FREQUENCY	63	125	250	500	1000	2000	4000	8000

Lw for the fans can be easily obtained using the Aerovent Fan Selector® program. Lw can also be obtained using the specific sound power level method described below:

$$\text{Sound Power Level of a fan (Lw)} = \text{Specific Sound Power Level (L}_{wk}) + \text{Capacity Fraction (M)}$$

Use of this method will be illustrated by the following example:

Calculate sound power levels for:

Size 27 BAUB SP. 3.1" w.g.
CFM. 13,030 RPM. 1,500 RPM

1. How to determine L_{wk}

We have published values for L_{wk} at various speeds and operating points on pages 3 through 5.

The operating point is a ratio of design CFM to the wide open volume (WOV). The WOVS equals to CFM for a given RPM at zero static pressure. WOVS can be calculated by multiplying fan RPM by the factors (Rf) shown in the table. Thus, WOVS volume for 1,500 RPM = 10.837 x 1,500 = 16,256 CFM.

Therefore, the operating point falls at 80% (13,030 ÷ 16,256 x 100%) of the WOVS. Referring to the inlet L_{wk} table for Size 27 BAUB, the specific sound power levels can be read as follows:

L_{wk} inlet = 40 42 43 31 28 27 22 16

SIZE	Rf FOR BAUB
122	0.8
135	1.233
150	1.469
165	2.251
182	3.318
200	4.367
222	6.013
245	8.028
270	10.837
300	14.866
330	19.786

2. How to determine M

The value of M can be taken from the tables on page 6 once Total Pressure (TP) is calculated.

M can also be calculated using the formula, $M = 10 \log_{10}(\text{CFM}) + 20 \log_{10} \text{TP}$, where $\text{TP} = ((\text{CFM} \div \text{OA}) \div 4005)^2 + \text{SP} = ((13,030 \div 4.19) \div 4005)^2 + 3.1 = 3.70$

Thus, for 13,030 CFM and 3.1" SP, M is 53.

3. Combining L_{wk} and M gives sound power levels.

Thus, Octave Band 1 2 3 4 5 6 7 8
 L_{wk} = 40 42 43 31 28 27 22 16
 M = 53 53 53 53 53 53 53 53
 Lw (Lwi) at inlet = 93 95 96 84 81 80 75 69

Inlet L_{wk} Values (for BAUB)

Sizes 12 & 15

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
4500	90	41	42	44	49	48	47	45	40
	80	38	39	40	44	43	41	39	36
	70	37	38	38	42	41	38	37	34
	60	36	37	37	41	40	37	36	34
	50	34	34	34	38	37	34	34	33
4200	90	41	43	44	49	48	47	45	39
	80	38	39	40	44	42	41	39	34
	70	37	38	39	42	40	38	37	33
	60	36	37	38	41	39	37	36	32
	50	34	34	35	38	36	34	33	31
3900	90	41	43	45	49	48	47	44	38
	80	38	39	41	44	42	41	38	33
	70	37	38	39	42	40	38	36	31
	60	36	37	38	41	39	37	36	31
	50	34	34	35	38	36	34	33	30
3600	90	41	43	46	49	48	47	44	36
	80	38	39	41	44	41	41	38	31
	70	37	38	40	42	39	38	36	30
	60	36	37	39	41	38	37	35	29
	50	34	34	36	38	35	34	33	28
3300	90	42	43	46	49	47	47	43	35
	80	38	39	42	44	41	40	37	30
	70	37	38	40	42	39	38	36	28
	60	36	37	39	41	38	37	35	27
	50	34	34	36	38	35	34	33	26
3000	90	42	43	47	49	48	47	43	34
	80	39	40	43	44	41	41	38	29
	70	38	39	41	42	39	38	36	27
	60	37	38	40	41	38	38	35	26
	50	35	35	38	39	35	35	34	25
2700	90	43	44	49	49	49	47	43	33
	80	40	41	44	44	42	41	38	28
	70	39	40	42	43	40	39	37	26
	60	38	39	42	42	39	38	36	26
	50	37	37	40	40	36	36	35	24
2400	90	44	45	49	49	49	48	44	32
	80	41	42	45	44	43	42	39	28
	70	40	41	43	43	41	40	37	26
	60	40	40	43	42	40	39	37	25
	50	38	38	41	40	38	37	36	24
2100	90	44	46	50	50	50	48	43	32
	80	42	43	45	45	44	43	38	27
	70	41	42	44	43	42	41	37	25
	60	41	41	43	42	41	40	36	25
	50	40	40	42	41	39	38	35	24
1800	90	45	47	50	51	51	48	42	31
	80	43	44	45	45	45	43	37	26
	70	42	43	44	43	43	41	35	25
	60	42	43	44	43	42	41	35	24
	50	42	42	43	41	40	39	34	23
1500	90	46	49	50	52	52	48	40	30
	80	44	45	46	46	46	43	35	25
	70	43	44	44	44	44	41	34	23
	60	43	44	44	44	43	41	33	23
	50	43	44	44	42	41	39	32	22
1200	90	47	50	51	53	51	47	37	27
	80	44	46	46	47	46	43	33	22
	70	44	45	45	44	44	41	31	20
	60	44	45	44	44	43	41	31	20
	50	44	45	44	43	41	40	30	19

Sizes 13 & 16

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
4500	90	44	41	40	46	44	42	40	33
	80	39	37	35	44	41	36	34	27
	70	39	36	34	43	40	35	32	26
	60	38	34	32	38	36	32	28	22
	50	38	34	32	38	36	32	28	22
4200	90	44	41	40	46	44	42	39	32
	80	39	37	36	44	40	36	33	26
	70	39	36	35	43	39	35	32	25
	60	37	34	32	38	35	32	28	22
	50	37	34	32	38	35	32	28	22
3900	90	43	41	41	46	43	42	39	31
	80	39	36	37	44	39	36	33	25
	70	38	36	36	43	38	35	31	24
	60	37	34	33	38	35	32	27	21
	50	37	34	33	38	35	32	27	21
3600	90	43	41	42	46	43	42	38	30
	80	39	36	38	44	38	36	32	24
	70	38	36	37	43	37	35	31	23
	60	37	33	34	38	34	31	27	20
	50	37	33	34	38	34	31	27	20
3300	90	43	40	43	46	43	42	37	29
	80	38	36	40	44	38	36	31	24
	70	38	35	39	43	36	35	30	22
	60	36	33	35	38	33	31	26	19
	50	36	33	35	38	33	31	26	19
3000	90	43	41	44	46	44	43	37	29
	80	38	36	41	43	38	36	31	23
	70	37	35	40	42	37	35	29	22
	60	36	33	36	38	33	31	26	19
	50	36	33	36	38	33	31	26	19
2700	90	43	41	45	46	45	43	37	28
	80	38	36	42	43	39	37	30	23
	70	37	36	41	42	38	35	29	22
	60	35	34	37	38	34	31	26	19
	50	35	34	37	38	34	31	26	19
2400	90	43	42	46	47	47	43	36	28
	80	37	37	42	42	40	36	30	23
	70	37	36	41	41	39	35	29	22
	60	35	34	38	37	35	31	26	19
	50	35	34	38	37	35	31	26	19
2100	90	43	43	47	48	49	42	35	27
	80	37	38	42	42	42	36	29	22
	70	37	37	41	41	40	35	28	21
	60	35	35	37	37	36	31	25	19
	50	35	35	37	37	36	31	25	19
1800	90	43	44	47	50	50	41	34	27
	80	37	39	42	43	43	35	29	21
	70	37	38	41	41	41	34	28	21
	60	35	36	37	37	36	31	25	18
	50	35	36	37	37	36	31	25	18
1500	90	44	46	48	52	49	40	33	26
	80	38	40	42	44	42	34	28	20
	70	37	39	41	43	40	33	27	20
	60	36	36	37	38	36	30	24	17
	50	36	36	37	38	36	30	24	17
1200	90	44	47	50	53	46	39	31	24
	80	38	40	43	45	39	32	26	18
	70	38	39	42	43	38	32	25	18
	60	36	37	37	38	34	29	23	15
	50	36	37	37	38	34	29	23	15

1. The calculated sound power levels from these ratings are in decibels, referenced to 10⁻¹² watts calculated per AMCA Standard 301.
2. Values shown are for inlet L_{wi} sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction.

Inlet L_{WK} Values (for BAUB)

Sizes 18 & 20

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
4200	90	38	38	38	41	41	36	34	30
	80	34	34	32	36	36	30	27	24
	70	34	34	31	35	35	29	26	23
	60	32	32	29	32	32	25	23	20
	50	32	32	29	32	32	25	23	20
3900	90	38	38	38	41	40	36	34	29
	80	34	34	32	36	35	30	27	23
	70	34	34	31	35	34	28	26	22
	60	32	32	29	33	31	25	22	20
	50	32	32	29	33	31	25	22	20
3600	90	38	38	38	42	39	35	33	29
	80	34	34	32	37	34	29	27	23
	70	34	33	31	36	33	28	25	22
	60	32	32	30	34	30	25	22	19
	50	32	32	30	34	30	25	22	19
3300	90	38	38	39	42	38	35	33	28
	80	34	33	33	38	33	29	26	22
	70	34	33	32	37	32	28	25	21
	60	32	31	30	34	29	24	22	18
	50	32	31	30	34	29	24	22	18
3000	90	38	38	39	43	38	35	32	27
	80	34	33	33	39	32	29	26	21
	70	34	32	32	38	31	27	25	20
	60	32	31	30	35	28	24	22	18
	50	32	31	30	35	28	24	22	18
2700	90	38	38	39	43	37	35	32	26
	80	34	32	34	39	31	28	25	20
	70	34	31	33	38	30	27	24	19
	60	32	30	31	35	27	24	21	17
	50	32	30	31	35	27	24	21	17
2400	90	39	39	41	42	37	35	32	26
	80	36	34	36	38	31	29	26	21
	70	36	33	35	37	30	28	25	20
	60	36	33	33	34	27	24	22	17
	50	36	33	33	34	27	24	22	17
2100	90	41	40	43	42	37	35	32	26
	80	38	36	38	36	31	30	27	20
	70	38	36	37	35	30	28	26	20
	60	39	37	36	34	28	26	23	18
	50	39	37	36	34	28	26	23	18
1800	90	42	43	45	40	36	35	32	24
	80	39	39	39	35	31	30	27	19
	70	40	38	39	34	30	29	26	18
	60	43	40	37	33	28	27	24	17
	50	43	40	37	33	28	27	24	17
1500	90	42	44	45	39	36	35	31	22
	80	40	39	40	33	31	30	27	17
	70	40	39	39	33	30	30	26	16
	60	44	40	38	32	28	27	23	15
	50	44	40	38	32	28	27	23	15
1200	90	42	45	44	38	36	35	29	19
	80	40	39	38	32	31	30	24	14
	70	40	39	38	32	30	29	24	13
	60	44	38	36	30	28	27	21	13
	50	44	38	36	30	28	27	21	13
900	90	43	45	41	36	36	33	25	15
	80	39	40	35	31	31	28	20	10
	70	39	39	34	30	30	27	19	9
	60	42	38	33	28	28	25	18	9
	50	42	38	33	28	28	25	18	9
600	90	45	44	38	36	35	29	19	10
	80	39	38	32	31	30	24	14	5
	70	39	38	32	30	29	24	13	4
	60	38	36	30	28	27	21	13	4
	50	38	36	30	28	27	21	13	4
300	90	44	38	36	35	29	19	10	1
	80	38	32	31	30	24	14	5	-5
	70	38	32	30	29	24	13	4	-5
	60	36	30	28	27	21	13	4	-4
	50	36	30	28	27	21	13	4	-4

Sizes 22 & 24

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
3400	90	42	40	41	47	38	35	34	30
	80	34	34	36	41	33	29	26	22
	70	33	33	35	40	32	28	24	21
	60	30	30	32	36	27	22	20	17
	50	30	30	32	36	27	22	20	17
3100	90	42	40	43	47	37	35	33	29
	80	34	34	38	41	32	29	26	21
	70	33	32	37	40	30	27	24	20
	60	30	30	34	36	26	22	20	16
	50	30	30	34	36	26	22	20	16
2800	90	42	39	45	47	37	35	33	28
	80	34	33	39	41	31	28	25	21
	70	33	32	38	40	30	27	23	19
	60	30	29	35	36	25	22	20	15
	50	30	29	35	36	25	22	20	15
2500	90	42	38	47	45	37	35	33	27
	80	34	33	41	39	31	28	24	20
	70	33	32	40	38	29	26	23	19
	60	30	29	36	34	25	22	19	15
	50	30	29	36	34	25	22	19	15
2200	90	42	37	47	43	36	34	32	26
	80	34	33	41	37	30	27	24	19
	70	33	32	40	36	29	26	22	18
	60	30	29	36	32	24	21	19	14
	50	30	29	36	32	24	21	19	14
1900	90	41	40	46	41	36	34	31	24
	80	35	35	40	36	30	27	23	18
	70	33	34	39	34	29	25	22	17
	60	31	31	36	30	24	21	18	13
	50	31	31	36	30	24	21	18	13
1600	90	40	41	46	40	35	33	30	22
	80	35	36	41	35	30	26	23	17
	70	34	35	40	34	28	25	21	15
	60	32	33	35	29	24	21	17	12
	50	32	33	35	29	24	21	17	12
1300	90	40	40	46	39	35	33	28	20
	80	36	35	42	35	29	26	22	14
	70	35	35	41	33	28	25	20	13
	60	32	32	34	28	23	21	16	11
	50	32	32	34	28	23	21	16	11
1000	90	40	43	44	37	34	31	25	17
	80	36	38	39	32	27	25	19	11
	70	35	37	38	31	26	24	18	10
	60	32	33	32	26	22	20	14	9
	50	32	33	32	26	22	20	14	9
700	90	40	47	40	35	33	29	21	12
	80	35	43	35	29	27	22	15	7
	70	35	42	34	28	25	21	14	7
	60	32	35	29	24	21	17	11	6
	50	32	35	29	24	21	17	11	6
400	90	46	41	36	33	30	22	14	6
	80	41	37	30	27	23	17	9	1
	70	40	35	29	25	22	15	8	1
	60	34	30	24	21	18	12	7	1
	50	34	30	24	21	18	12	7	1

1. The calculated sound power levels from these ratings are in decibels, referenced to 10⁻¹² watts calculated per AMCA Standard 301.
2. Values shown are for inlet L_{wi} sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction.

Inlet L_{WK} Values (for BAUB)

Sizes 27, 30 & 33

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
3000	90	46	46	49	51	35	34	31	28
	80	40	40	44	46	29	28	26	22
	70	39	39	43	45	28	27	25	21
	60	35	35	39	41	25	24	23	18
	50	35	35	39	41	25	24	23	18
2700	90	46	46	50	50	35	34	31	27
	80	40	40	45	45	29	28	25	21
	70	39	39	44	44	28	27	25	20
	60	35	35	40	40	25	24	22	17
	50	35	35	40	40	25	24	22	17
2400	90	46	46	51	47	35	33	30	26
	80	40	40	46	41	29	28	25	20
	70	39	39	45	40	28	27	24	19
	60	35	35	41	37	24	24	22	16
	50	35	35	41	37	24	24	22	16
2100	90	46	46	51	43	35	33	30	25
	80	40	41	46	38	29	27	24	19
	70	39	40	45	36	28	26	23	18
	60	35	35	41	33	24	24	21	15
	50	35	35	41	33	24	24	21	15
1800	90	46	48	51	39	35	32	29	23
	80	40	42	46	33	29	27	23	17
	70	39	41	45	32	27	26	22	16
	60	35	37	41	28	24	24	20	13
	50	35	37	41	28	24	24	20	13
1500	90	45	47	48	37	34	32	28	22
	80	40	42	43	31	28	27	22	16
	70	39	41	42	29	27	26	21	15
	60	35	37	38	26	24	23	19	13
	50	35	37	38	26	24	23	19	13
1200	90	43	44	43	37	34	32	27	19
	80	39	39	37	31	28	27	22	15
	70	38	38	35	29	27	26	21	14
	60	34	34	32	27	25	24	19	12
	50	34	34	32	27	25	24	19	12
900	90	42	42	41	34	34	31	24	15
	80	38	36	35	27	29	26	20	11
	70	37	35	34	26	28	25	19	10
	60	33	31	31	24	25	23	17	9
	50	33	31	31	24	25	23	17	9
600	90	42	42	37	34	32	28	19	10
	80	37	35	31	28	28	23	15	6
	70	36	34	30	27	27	22	14	5
	60	32	31	27	25	24	20	12	4
	50	32	31	27	25	24	20	12	4
300	90	42	37	34	32	28	19	10	0
	80	35	31	28	28	23	15	6	-3
	70	34	30	27	27	22	14	5	-4
	60	31	27	25	24	20	12	4	-5
	50	31	27	25	24	20	12	4	-5

Sizes 36

RPM	% WOV	OCTAVE BAND							
		1	2	3	4	5	6	7	8
2100	90	44	44	47	41	35	34	31	24
	80	36	36	41	36	29	28	25	19
	70	34	35	40	34	28	27	23	18
	60	31	32	35	30	23	22	19	15
	50	31	32	35	30	23	22	19	15
1800	90	44	45	47	38	34	33	29	22
	80	36	38	41	33	29	28	23	17
	70	34	36	40	31	28	27	22	16
	60	31	33	35	27	22	22	18	14
	50	31	33	35	27	22	22	18	14
1500	90	44	46	47	36	34	33	27	21
	80	36	39	41	30	29	27	22	16
	70	34	38	40	29	27	26	21	15
	60	31	34	35	25	22	21	17	13
	50	31	34	35	25	22	21	17	13
1200	90	44	47	44	35	34	32	25	19
	80	36	41	38	30	28	26	20	14
	70	34	40	37	28	27	24	19	13
	60	31	35	32	24	22	20	16	12
	50	31	35	32	24	22	20	16	12
900	90	44	46	40	35	33	30	23	17
	80	38	41	34	29	28	25	18	13
	70	37	40	33	28	27	24	18	12
	60	37	37	30	25	23	20	16	10
	50	37	37	30	25	23	20	16	10
600	90	43	46	38	34	34	27	21	14
	80	39	41	33	29	29	22	17	10
	70	39	40	32	28	28	21	16	10
	60	42	37	31	26	25	19	14	9
	50	42	37	31	26	25	19	14	9
300	90	46	38	34	34	27	21	14	7
	80	41	33	29	29	22	17	10	4
	70	40	32	28	28	21	16	10	3
	60	37	31	26	25	19	14	9	3
	50	37	31	26	25	19	14	9	3
100	90	35	33	30	24	17	10	3	-4
	80	30	28	25	19	13	7	0	-6
	70	29	27	24	18	12	6	0	-7
	60	28	24	22	16	11	5	0	-6
	50	28	24	22	16	11	5	0	-6

1. The calculated sound power levels from these ratings are in decibels, referenced to 10⁻¹² watts calculated per AMCA Standard 301.
2. Values shown are for inlet L_{wi} sound power levels for: Installation Type B: free inlet, ducted outlet. Ratings do not include the effects of duct end correction.

M Capacity Fraction

CFM	TOTAL PRESSURE AT DENSITY																			
	¼	⅜	½	⅝	¾	⅞	1	1¼	1½	2	2½	3	3½	4	4½	5	5½	6	6½	
100	8	11	14	16	18	19	20	22	24	26	28	30	31	32	33	34	35	36	36	
150	10	13	16	18	19	21	22	24	25	28	30	31	33	34	35	36	37	37	38	
200	11	14	17	19	21	22	23	25	27	29	31	33	34	35	36	37	38	39	39	
300	13	16	19	21	22	24	25	27	28	31	33	34	36	37	38	39	40	40	41	
500	15	18	21	23	24	26	27	29	31	33	35	37	38	39	40	41	42	43	43	
750	17	20	23	25	26	28	29	31	32	35	37	38	40	41	42	43	44	44	45	
1000	18	21	24	26	28	29	30	32	34	36	38	40	41	42	43	44	45	46	46	
1500	20	23	26	28	29	31	32	34	35	38	40	41	43	44	45	46	47	47	48	
2000	21	24	27	29	31	32	33	35	37	39	41	43	44	45	46	47	48	49	49	
3000	23	26	29	31	32	34	35	37	38	41	43	44	46	47	48	49	50	50	51	
5000	25	28	31	33	34	36	37	39	41	43	45	47	48	49	50	51	52	53	53	
7500	27	30	33	35	36	38	39	41	42	45	47	48	50	51	52	53	54	54	55	
10000	28	31	34	36	38	39	40	42	44	46	48	50	51	52	53	54	55	56	56	
15000	30	33	36	38	39	41	42	44	45	48	50	51	53	54	55	56	57	57	58	
20000	31	34	37	39	41	42	43	45	47	49	51	53	54	55	56	57	58	59	59	
30000	33	36	39	41	42	44	45	47	48	51	53	54	56	57	58	59	60	60	61	
50000	35	38	41	43	44	46	47	49	51	53	55	57	58	59	60	61	62	63	63	
75000	37	40	43	45	46	48	49	51	52	55	57	58	60	61	62	63	64	64	65	
100000	38	41	44	46	48	49	50	52	54	56	58	60	61	62	63	64	65	66	66	
150000	40	43	46	48	49	51	52	54	55	58	60	61	63	64	65	66	67	67	68	
200000	41	44	47	49	51	52	53	55	57	59	61	63	64	65	66	67	68	69	69	

CFM	TOTAL PRESSURE AT DENSITY																		
	7	8	9	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
100	37	38	39	40	42	43	44	45	46	47	48	48	49	50	50	51	51	52	52
150	39	40	41	42	43	45	46	47	48	49	49	50	51	51	52	52	53	53	54
200	40	41	42	43	45	46	47	48	49	50	51	51	52	53	53	54	54	55	55
300	42	43	44	45	46	48	49	50	51	52	52	53	54	54	55	55	56	56	57
500	44	45	46	47	49	50	51	52	53	54	55	55	56	57	57	58	58	59	59
750	46	47	48	49	50	52	53	54	55	56	56	57	58	58	59	59	60	60	61
1000	47	48	49	50	52	53	54	55	56	57	58	58	59	60	60	61	61	62	62
1500	49	50	51	52	53	55	56	57	58	59	59	60	61	61	62	62	63	63	64
2000	50	51	52	53	55	56	57	58	59	60	61	61	62	63	63	64	64	65	65
3000	52	53	54	55	56	58	59	60	61	62	62	63	64	64	65	65	66	66	67
5000	54	55	56	57	59	60	61	62	63	64	65	65	66	67	67	68	68	69	69
7500	56	57	58	59	60	62	63	64	65	66	66	67	68	68	69	69	70	70	71
10000	57	58	59	60	62	63	64	65	66	67	68	68	69	70	70	71	71	72	72
15000	59	60	61	62	63	65	66	67	68	69	69	70	71	71	72	72	73	73	74
20000	60	61	62	63	65	66	67	68	69	70	71	71	72	73	73	74	74	75	75
30000	62	63	64	65	66	68	69	70	71	72	72	73	74	74	75	75	76	76	77
50000	64	65	66	67	69	70	71	72	73	74	75	75	76	77	77	78	78	79	79
75000	66	67	68	69	70	72	73	74	75	76	76	77	78	78	79	79	80	80	81
100000	67	68	69	70	72	73	74	75	76	77	78	78	79	80	80	81	81	82	82
150000	69	70	71	72	73	75	76	77	78	79	79	80	81	81	82	82	83	83	84
200000	70	71	72	73	75	76	77	78	79	80	81	81	82	83	83	84	84	85	85



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5959 Trenton Lane N | Minneapolis, MN 55442 | Phone: 763-551-7500 | Fax: 763-551-7501