

Section 22

APPENDICES

22.1 Metric Conversion

Figure 22a

POUNDS TO KILOGRAMS FROM 0 TO 10.9 POUNDS
(1 pound = 0.45359265 of a kilogram)

Pounds	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0	Kgs 0.00000	Kgs 0.01536	Kgs 0.09072	Kgs 0.13508	Kgs 0.18144	Kgs 0.22680	Kgs 0.27216	Kgs 0.31751	Kgs 0.36287	Kgs 0.40823
1	.45359	.49895	.51431	.58967	.63503	.68039	.72575	.77111	.81647	.86183
2	.90719	.95254	.99790	1.01326	1.08862	1.13398	1.17931	1.22470	1.27006	1.31542
3	1.36078	1.40614	1.45150	1.49686	1.54222	1.58757	1.63293	1.67829	1.72365	1.76901
4	1.81437	1.85973	1.90509	1.95015	1.99581	2.04117	2.08653	2.13189	2.17724	2.22260
5	2.26796	2.31332	2.35868	2.40404	2.44910	2.49176	2.54012	2.58548	2.63084	2.67620
6	2.72156	2.76692	2.81227	2.85763	2.90299	2.94835	2.99371	3.03907	3.08443	3.12979
7	3.17515	3.22051	3.26587	3.31123	3.35659	3.40194	3.44730	3.49266	3.53802	3.58338
8	3.62874	3.67410	3.71946	3.76482	3.81018	3.85554	3.90090	3.94626	3.99162	4.03697
9	4.08233	4.12769	4.17305	4.21841	4.26377	4.30913	4.35449	4.39985	4.44521	4.49057
10	4.53593	4.58129	4.62664	4.67200	4.71736	4.76272	4.80808	4.85344	4.89880	4.94416

Figure 22b

U.S. GALLONS TO LITERS FROM 0 TO 100 GALLONS
(1 gallon = 3.785323 liters)

Gallons	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
	Liters	Liters	Liters	Liters	Liters	Liters	Liters	Liters	Liters	Liters
0	00.0000	3.7853	7.5707	11.3560	15.1413	18.9267	22.7120	26.4973	30.2827	34.0680
10	37.8533	41.6387	45.4240	49.2093	52.9947	56.7800	60.5653	64.3506	68.1360	71.9213
20	75.7066	79.4920	83.2773	87.0626	90.8480	94.6333	98.4186	102.2040	105.9893	109.7746
30	113.5600	117.3453	121.1306	124.9160	128.7013	132.4866	136.2720	140.0573	143.8426	147.6280
40	151.4133	155.1986	158.9840	162.7693	166.5546	170.3400	174.1253	177.9106	181.0960	185.4813
50	189.2666	193.0519	196.8373	200.6226	204.4079	208.1933	211.9786	215.7639	219.5493	223.3346
60	227.1199	230.9053	234.6906	238.4759	242.2613	246.0466	249.8319	253.6173	257.4026	261.1879
70	264.9733	268.7586	272.5439	276.3293	280.1146	283.8999	287.6853	291.4706	295.2559	299.0413
80	302.8266	306.6119	310.3972	314.1826	317.9679	321.7532	325.5386	329.3239	333.1092	336.8946
90	340.6799	344.4652	348.2506	352.0359	355.8212	359.6066	363.3919	367.1772	370.9626	374.7479
100	378.533									
NOTE: This table may be read from 100 to 1000 gallons in steps of 10 gallons by moving decimal points one place to right.										

Figure 22c

NOMINAL ELEVATOR CAR SPEEDS IN
FEET PER MINUTE TO METERS PER MINUTE AND METERS PER SECOND

Feet per Min.	Meters per Min.	Meters per Sec.	Feet per Min.	Meters per Min.	Meters per Sec.	Feet per Min.	Meters per Min.	Meters per Sec.	Feet per Min.	Meters per Min.	Meters per Sec.
5	1.5	.03	105	32.0	.53	205	62.4	1.04	325	99.0	1.65
10	3.0	.05	110	33.0	.56	210	64.0	1.07	350	107.0	1.78
15	4.6	.03	115	35.0	.58	215	65.0	1.09	375	114.0	1.91
20	6.0	.10	120	36.0	.61	220	67.0	1.12	400	122.0	2.03
25	8.0	.13	125	38.0	.64	225	68.0	1.14	425	129.0	2.16
30	9.0	.15	130	40.0	.66	230	70.0	1.17	450	137.0	2.29
35	11.0	.18	135	41.0	.69	235	71.0	1.19	475	145.0	2.41
40	12.0	.20	140	43.0	.71	240	73.0	1.22	500	152.0	2.54
45	14.0	.23	145	44.0	.74	245	74.0	1.24	525	160.0	2.67
50	15.0	.25	150	46.0	.76	250	76.0	1.27	550	168.0	2.79
55	17.0	.28	155	47.0	.79	255	78.0	1.30	575	175.0	2.92
60	18.0	.30	160	49.0	.81	260	79.0	1.32	600	183.0	3.05
65	20.0	.33	165	50.0	.84	265	80.0	1.35	625	190.0	3.18
70	21.0	.36	170	52.0	.86	270	82.0	1.37	650	198.0	3.30
75	23.0	.38	175	53.0	.89	275	84.0	1.40	675	205.0	3.43
80	24.0	.41	180	55.0	.91	280	85.0	1.42	700	213.0	3.56
85	26.0	.43	185	56.0	.94	285	87.0	1.45	725	221.0	3.68
90	27.0	.46	190	58.0	.97	290	88.0	1.47	750	229.0	3.81
95	29.0	.48	195	59.0	.99	295	90.0	1.50	775	236.0	3.94
100	30.0	.51	200	60.0	1.02	300	91.0	1.52	800	244.0	4.06
									825	251.0	4.19
									850	259.0	4.32
									875	267.0	4.45
									900	274.0	4.57

Figure 22d

FRACTIONS OF AN INCH (FOR EACH 64th) TO MILLIMETERS

Fractions of Inch	64ths of Inch	Decimals	Millimeters
—	1	.015625	0.397
1/32	2	.031250	0.791
—	3	.046875	1.191
1/16	4	.062500	1.588
—	5	.078125	1.984
3/32	6	.093750	2.381
—	7	.109375	2.778
1/8	8	.125000	3.175
—	9	.140625	3.572
5/32	10	.156250	3.969
—	11	.171875	4.366
3/16	12	.187500	4.763
—	13	.203125	5.159
7/32	14	.218750	5.556
—	15	.234375	5.953
1/4	16	.250000	6.350
—	17	.265625	6.747
9/32	18	.281250	7.144
—	19	.296875	7.541
5/16	20	.312500	7.938
—	21	.328125	8.334
11/32	22	.343750	8.731
—	23	.359375	9.128
3/8	24	.375000	9.525
—	25	.390625	9.922
13/32	26	.406250	10.319
—	27	.421875	10.716
7/16	28	.437500	11.113
—	29	.453125	11.509
15/32	30	.468750	11.906
—	31	.484375	12.303
1/2	32	.500000	12.700

Figure 22d

FRACTIONS OF AN INCH (FOR EACH 64th) TO MILLIMETERS

Fractions of Inch	64ths of Inch	Decimals	Millimeters
—	33	.515625	13.097
17/32	34	.531250	13.494
—	35	.546875	13.891
9/16	36	.562500	14.288
—	37	.578125	14.684
19/32	38	.593750	15.081
—	39	.609375	15.478
5/8	40	.625000	15.875
—	41	.640625	16.272
21/32	42	.656250	16.669
—	43	.671875	17.066
11/16	44	.687500	17.463
—	45	.703125	17.859
23/32	46	.718750	18.256
—	47	.734375	18.653
3/4	48	.750000	19.050
—	49	.765625	19.447
25/32	50	.781250	19.844
—	51	.796875	20.241
13/16	52	.812500	20.638
—	53	.828125	21.034
27/32	54	.843750	21.431
—	55	.859375	21.828
7/8	56	.875000	22.225
—	57	.890625	22.622
29/32	58	.906250	23.019
—	59	.921875	23.416
15/16	60	.937500	23.813
—	61	.953125	24.209
31/32	62	.968750	24.606
—	63	.981375	25.003
1	64	1.000000	25.400

Figure 22e

FEET TO METERS FROM 0 TO 249 FEET

(1 foot = 0.3048004006 meter)

Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
0	0.00000	50	15.24003	100	30.48006	150	45.72009	200	60.96012
1	.30480	1	15.54483	1	30.78436	1	46.02489	1	61.26492
2	.60060	2	15.84963	2	31.08966	2	46.32969	2	61.56972
3	.91440	3	16.15443	3	31.39446	3	46.63449	3	61.87452
4	1.21920	4	16.45923	4	31.69926	4	46.93929	4	62.17932
5	1.52400	5	16.76403	5	32.00406	5	47.24409	5	62.48412
6	1.82880	6	17.06883	6	32.30886	6	47.54890	6	62.78893
7	2.13360	7	17.37363	7	32.61367	7	47.85370	7	63.09373
8	2.43840	8	17.67844	8	32.91847	8	48.15850	8	63.39853
9	2.74321	9	17.98324	9	33.22327	9	48.46330	9	63.70333
10	3.04801	60	18.28804	110	33.52807	160	48.76810	210	64.00813
1	3.35281	1	18.59284	1	33.83287	1	49.07290	1	64.31293
2	3.65761	2	18.89764	2	34.13767	2	49.37770	2	64.61773
3	3.96241	3	19.20244	3	34.44247	3	49.68250	3	64.92253
4	4.26721	4	19.50724	4	34.74727	4	49.98730	4	65.22733
5	4.57201	5	19.81204	5	35.05207	5	50.29210	5	65.53213
6	4.87681	6	20.11684	6	35.35687	6	50.59690	6	65.83693
7	5.18161	7	20.42164	7	35.66167	7	50.90170	7	66.14173
8	5.48641	8	20.72644	8	35.96647	8	51.20650	8	66.44653
9	5.79121	9	21.03124	9	36.27127	9	51.51130	9	66.75133
20	6.09601	70	21.33604	120	36.57607	170	51.81610	220	67.05613
1	6.40081	1	21.64084	1	36.88087	1	52.12090	1	67.36093
2	6.70561	2	21.94564	2	37.18567	2	52.42570	2	67.66573
3	7.01041	3	22.25044	3	37.49047	3	52.73051	3	67.97054
4	7.31521	4	22.55524	4	37.79527	4	53.03531	4	68.27534
5	7.62002	5	22.86005	5	38.10008	5	53.34011	5	68.58014
6	7.92482	6	23.16485	6	38.40488	6	53.64491	6	68.88494
7	8.22962	7	23.46965	7	38.70968	7	53.94971	7	69.18974
8	8.53442	8	23.77445	8	39.01448	8	54.25451	8	69.49454
9	8.83922	9	24.07925	9	39.31928	9	54.55931	9	69.79934
30	9.14402	80	24.38405	130	39.62408	180	54.86411	230	70.10414
1	9.44882	1	24.68885	1	39.92888	1	55.16891	1	70.40894
2	9.75362	2	24.99365	2	40.23368	2	55.47371	2	70.71374
3	10.05842	3	25.29845	3	40.53848	3	55.77851	3	71.01854
4	10.36322	4	25.60325	4	40.84328	4	56.08331	4	71.32334
5	10.66802	5	25.90805	5	41.14808	5	56.38811	5	71.62814
6	10.97282	6	26.21285	6	41.45288	6	56.69291	6	71.93294
7	11.27762	7	26.51765	7	41.75768	7	56.99771	7	72.23774
8	11.58242	8	26.82245	8	42.06248	8	57.30251	8	72.54255
9	11.88722	9	27.12725	9	42.36728	9	57.60731	9	72.84735
40	12.19202	90	27.43205	140	42.67209	190	57.91212	240	73.15215
1	12.49682	1	27.73686	1	42.97689	1	58.21692	1	73.45695
2	12.80163	2	28.04166	2	43.28169	2	58.52172	2	73.76175
3	13.10643	3	28.34646	3	43.58649	3	58.82652	3	74.06655
4	13.41123	4	28.65126	4	43.89129	4	59.13132	4	74.37135
5	13.71603	5	28.95606	5	44.19609	5	59.43612	5	74.67615
6	14.02083	6	29.26086	6	44.50089	6	59.74092	6	74.98095
7	14.32563	7	29.56566	7	44.80569	7	60.04572	7	75.28575
8	14.63043	8	29.87046	8	45.11049	8	60.35052	8	75.59055
9	14.93523	9	30.17526	9	45.41529	9	60.65532	9	75.89535

1 inch = 0.02540 meter	4 inches = 0.10460 meter	7 inches = 0.17780 meter	10 inches = 0.25400 meter
2 inches = 0.05080 meter	5 inches = 0.20320 meter	8 inches = 0.21270 meter	11 inches = 0.27960 meter
3 inches = 0.07620 meter	6 inches = 0.15240 meter	9 inches = 0.22860 meter	12 inches = 0.30480 meter