

Axial Thread Rolling

Recommended Blank Diameters

Blank Diameters for Parallel Rolled Threads UNF & UNC - Class 2

Size		Steel												Aluminum Alloy					
		10-50 C Soft		30-50 C Soft		30-50 C or Alloy 15-25 RC		30-50 C Chrome Nickel 26-32 RC		Stainless Chrome 300 Series*		Stainless Chrome 400 Series*		Brass and Bronze		Soft		Hard	
O.D.	Pitch	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
#0	80	.0504	.0498	.0507	.0501	.0509	.0503	.0511	.0505	.0513	.0507	.0515	.0509	.0507	.0501	.0509	.0503	.0507	.0501
#1	72	.0623	.0617	.0627	.0621	.0629	.0622	.0631	.0625	.0633	.0626	.0635	.0628	.0627	.06321	.0629	.0622	.0627	.0621
#1	64	.0612	.0605	.0616	.0609	.0618	.0611	.0620	.0613	.0622	.0615	.0624	.0617	.0616	.0609	.0618	.0611	.0616	.0609
#2	64	.0742	.0735	.0746	.0739	.0748	.0741	.0750	.0743	.0752	.0745	.0754	.0747	.0746	.0739	.0748	.0741	.0746	.0739
#2	56	.0726	.0719	.0730	.0723	.0732	.0725	.0734	.0728	.0737	.0730	.0739	.0732	.0730	.0723	.0732	.0725	.0730	.0723
#3	56	.0855	.0847	.0859	.0852	.0861	.0854	.0863	.0856	.0866	.0858	.0868	.0860	.0859	.0852	.0861	.0854	.0859	.0852
#3	48	.0835	.0827	.0840	.0832	.0842	.0834	.0844	.0837	.0846	.0839	.0849	.0841	.0840	.0832	.0842	.0834	.0840	.0832
#4	48	.0964	.0956	.0969	.0961	.0971	.0964	.0974	.0966	.0976	.0968	.0979	.0971	.0969	.0961	.0971	.0964	.0969	.0961
#4	40	.0936	.0928	.0941	.0933	.0943	.0935	.0946	.0938	.0948	.0940	.0951	.0943	.0941	.0938	.0943	.0935	.0941	.0933
#5	44	.1081	.1073	.1086	.1078	.1088	.1080	.1091	.1082	.1093	.1085	.1096	.1088	.1086	.1078	.1088	.1080	.1086	.1078
#5	40	.1065	.1057	.1070	.1062	.1073	.1064	.1075	.1067	.1078	.1070	.1081	.1072	.1070	.1062	.1073	.1064	.1070	.1062
#6	40	.1195	.1187	.1200	.1192	.1203	.1194	.1205	.1197	.1208	.1200	.1211	.1202	.1200	.1192	.1203	.1194	.1200	.1192
#6	32	.1153	.1144	.1159	.1149	.1161	.1152	.1164	.1155	.1167	.1158	.1170	.1161	.1159	.1149	.1161	.1152	.1159	.1149
#8	36	.1436	.1427	.1442	.1432	.1444	.1435	.1447	.1438	.1450	.1441	.1453	.1444	.1442	.1432	.1444	.1435	.1442	.1432
#8	32	.1412	.1402	.1417	.1408	.1420	.1411	.1423	.1414	.1426	.1416	.1429	.1419	.1417	.1408	.1420	.1411	.1417	.1408
#10	32	.1671	.1661	.1677	.1667	.1680	.1670	.1683	.1673	.1686	.1676	.1689	.1679	.1677	.1667	.1680	.1670	.1677	.1667
#10	24	.1591	.1589	.1608	.1596	.1611	.1599	.1614	.1602	.1618	.1606	.1621	.1609	.1608	.1596	.1611	.1599	.1608	.1596
#12	28	.1900	.1889	.1907	.1896	.1910	.1899	.1913	.1902	.1916	.1905	.1920	.1908	.1907	.1896	.1910	.1899	.1907	.1896
#12	24	.1861	.1848	.1868	.1855	.1871	.1859	.1874	.1862	.1878	.1865	.1881	.1869	.1868	.1855	.1871	.1859	.1868	.1855
1/4	20	.2144	.2131	.2151	.2138	.2155	.2142	.2159	.2146	.2166	.2153	.2159	.2146	.2151	.2138	.2155	.2142	.2151	.2138
1/4	28	.2241	.2228	.2248	.2235	.2251	.2238	.2255	.2242	.2261	.2248	.2255	.2242	.2248	.2235	.2251	.2238	.2248	.2235
5/16	18	.2729	.2716	.2737	.2724	.2741	.2728	.2745	.2732	.2753	.2740	.2745	.2732	.2737	.2724	.2741	.2728	.2737	.2724
5/16	24	.2823	.2810	.2830	.2817	.2834	.2821	.2837	.2824	.2845	.2832	.2837	.2824	.2830	.2817	.2834	.2821	.2830	.2817
3/8	16	.3306	.3291	.3315	.3300	.3320	.3305	.3324	.3309	.3333	.3318	.3324	.3309	.3315	.3300	.3320	.3305	.3315	.3300
3/8	24	.3448	.3434	.3455	.3441	.3459	.3445	.3463	.3449	.3471	.3457	.3463	.3449	.3455	.3441	.3459	.3445	.3455	.3441
7/16	14	.3871	.3855	.3880	.3864	.3885	.3869	.3890	.3874	.3899	.3883	.3890	.3874	.3880	.3864	.3885	.3869	.3880	.3864
7/16	20	.4012	.3999	.4021	.4008	.4025	.4012	.4029	.4016	.4037	.4024	.4029	.4016	.4021	.4008	.4025	.4012	.4021	.4008
1/2	13	.4458	.4440	.4468	.4450	.4473	.4455	.4478	.4460	.4488	.4470	.4478	.4460	.4468	.4450	.4473	.4455	.4468	.4450
1/2	20	.4637	.4623	.4646	.4632	.4650	.4636	.4655	.4641	.4663	.4649	.4655	.4641	.4646	.4632	.4650	.4636	.4646	.4632
9/16	12	.5039	.5021	.5050	.5032	.5055	.5037	.5060	.5042	.5070	.5052	.5060	.5042	.5050	.5032	.5055	.5037	.5050	.5032
9/16	18	.5225	.5210	.5234	.5219	.5238	.5223	.5243	.5228	.5252	.5237	.5243	.5228	.5234	.5219	.5238	.5223	.5234	.5219
5/8	11	.5614	.5595	.5625	.5606	.5630	.5611	.5636	.5617	.5647	.5628	.5636	.5617	.5625	.5606	.5630	.5611	.5625	.5606
5/8	18	.5850	.5833	.5859	.5842	.5864	.5847	.5869	.5852	.5878	.5861	.5869	.5852	.5859	.5842	.5864	.5847	.5859	.5842
3/4	10	.6799	.6779	.6811	.6791	.6817	.6797	.6823	.6803	.6834	.6814	.6823	.6803	.6811	.6791	.6817	.6797	.6799	.6791
3/4	16	.7052	.7034	.7062	.7044	.7067	.7049	.7072	.7054	.7082	.7064	.7072	.7054	.7062	.7044	.7067	.7049	.7062	.7044
7/8	9	.7972	.7952	.7985	.7965	.7991	.7971	.7998	.7978	.8010	.7990	.7998	.7978	.7985	.7965	.7991	.7971	.7985	.7965
7/8	14	.8240	.8221	.8251	.8232	.8257	.8238	.8262	.8243	.8273	.8259	.8262	.8243	.8251	.8232	.8257	.8238	.8251	.8232
1	8	.9131	.9107	.9144	.9120	.9151	.9127	.9158	.9134	.9172	.9148	.9158	.9134	.9144	.9120	.9151	.9127	.9144	.9120
1	12	.9408	.9388	.9420	.9400	.9426	.9406	.9432	.9412	.9443	.9423	.9432	.9412	.9420	.9400	.9426	.9406	.9420	.9400
1-1/8	7	1.0262	1.0235	1.0276	1.0250	1.0283	1.0257	1.0290	1.0264	1.0304	1.0278	1.0290	1.0264	1.0276	1.0250	1.0283	1.0257	1.0276	1.0250
1-1/8	12	1.0657	1.0637	1.0669	1.0649	1.0675	1.0655	1.0681	1.0661	1.0693	1.0673	1.0681	1.0661	1.0669	1.0649	1.0675	1.0655	1.0669	1.0649
1-1/4	7	1.1510	1.1483	1.1525	1.1498	1.1533	1.1506	1.1540	1.1513	1.1555	1.1528	1.1540	1.1513	1.1525	1.1498	1.1533	1.1506	1.1525	1.1498
1-1/4	12	1.1906	1.1885	1.1919	1.1898	1.1925	1.1904	1.1931	1.1910	1.1943	1.1922	1.1931	1.1910	1.1919	1.1898	1.1925	1.1904	1.1919	1.1898
1-3/8	6	1.2601	1.2571	1.2617	1.2587	1.2625	1.2595	1.2633	1.2603	1.2649	1.2619	1.2633	1.2603	1.2617	1.2587	1.2625	1.2595	1.2617	1.2587
1-3/8	12	1.3153	1.3133	1.3166	1.3146	1.3171	1.3152	1.3178	1.3158	1.3191	1.3171	1.3178	1.3158	1.3166	1.3146	1.3171	1.3152	1.3166	1.3146
1-1/2	6	1.3850	1.3820	1.3866	1.3836	1.3874	1.3844	1.3882	1.3852	1.3898	1.3868	1.3882	1.3851	1.3866	1.3836	1.3874	1.3844	1.3866	1.3836
1-1/2	12	1.4402	1.4382	1.4415	1.4395	1.4422	1.4402	1.4428	1.4408	1.4441	1.4421	1.4428	1.4408	1.4415	1.4395	1.4422	1.4402	1.4415	1.4395
1-3/4	5	1.6124	1.6094	1.6142	1.6112	1.6150	1.6120	1.6159	1.6129	1.6177	1.6147	1.6159	1.6129	1.6142	1.6112	1.6150	1.6120	1.6142	1.6112
2	4-1/2	1.8474	1.8442	1.8493	1.8461	1.8503	1.8471	1.8512	1.8480	1.8531	1.8499	1.8512	1.8480	1.8442	1.8461	1.8503	1.8471	1.8442	1.8461

Note: These dimensions are for set-up reference. Diameters must be finally established by actual rolling.

* Only Certain Grades Rollable

Axial Thread Rolling

RSVP Tooling, Inc.



Axial Thread Rolling

Recommended Blank Diameters

Blank Diameters for Parallel Rolled Threads UNF & UNC - Class 3

Size		Steel												Aluminum Alloy					
		10-50 C Soft		30-50 C Soft		30-50 C or Alloy 15-25 RC		30-50 C Chrome Nickel 26-32 RC		Stainless Chrome 300 Series*		Stainless Chrome 400 Series*		Brass and Bronze		Soft		Hard	
O.D.	Pitch	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
#0	80	.0512	.0507	.0514	.0510	.0515	.0511	.0517	.0513	.0519	.0515	.0517	.0513	.0514	.0510	.0515	.0511	.0514	.0510
#1	72	.0632	.0627	.0635	.0630	.0637	.0632	.0638	.0633	.0641	.0636	.0638	.0633	.0635	.0630	.0637	.0632	.0635	.0630
#1	64	.0621	.0616	.0624	.0619	.0625	.0620	.0627	.0622	.0630	.0625	.0627	.0622	.0624	.0619	.0625	.0620	.0624	.0619
#2	64	.0751	.0746	.0754	.0749	.0755	.0750	.0757	.0752	.0760	.0755	.0757	.0752	.0754	.0749	.0755	.0750	.0754	.0749
#2	56	.0735	.0730	.0738	.0733	.0739	.0734	.0741	.0736	.0744	.0739	.0741	.0736	.0738	.0733	.0739	.0734	.0738	.0733
#3	56	.0865	.0860	.0868	.0863	.0869	.0864	.0871	.0866	.0874	.0869	.0871	.0866	.0868	.0863	.0869	.0864	.0868	.0863
#3	48	.0845	.0840	.0848	.0843	.0850	.0845	.0852	.0847	.0855	.0850	.0852	.0847	.0848	.0843	.0850	.0845	.0848	.0843
#4	48	.0975	.0969	.0978	.0972	.0980	.0974	.0982	.0976	.0986	.0980	.0982	.0976	.0978	.0972	.0980	.0974	.0978	.0972
#4	40	.0947	.0941	.0950	.0945	.0953	.0947	.0955	.0949	.0958	.0952	.0955	.0949	.0950	.0945	.0953	.0947	.0950	.0945
#5	44	.1091	.1085	.1095	.1088	.1097	.1091	.1099	.1093	.1102	.1096	.1099	.1093	.1095	.1088	.1097	.1091	.1095	.1088
#5	40	.1077	.1071	.1081	.1075	.1083	.1077	.1085	.1079	.1088	.1082	.1085	.1079	.1081	.1075	.1083	.1077	.1081	.1075
#6	40	.1207	.1200	.1211	.1204	.1213	.1206	.1215	.1208	.1219	.1212	.1215	.1208	.1211	.1204	.1213	.1206	.1211	.1204
#6	32	.1164	.1157	.1169	.1162	.1171	.1164	.1174	.1167	.1178	.1171	.1174	.1167	.1169	.1162	.1171	.1164	.1169	.1162
#8	36	.1448	.1441	.1452	.1445	.1454	.1447	.1457	.1450	.1461	.1454	.1457	.1450	.1452	.1445	.1454	.1447	.1452	.1445
#8	32	.1424	.1417	.1429	.1422	.1431	.1424	.1433	.1426	.1437	.1430	.1433	.1426	.1429	.1422	.1431	.1424	.1429	.1422
#10	32	.1683	.1676	.1688	.1681	.1690	.1683	.1693	.1686	.1697	.1690	.1693	.1686	.1688	.1681	.1690	.1683	.1688	.1681
#10	24	.1615	.1607	.1620	.1612	.1622	.1614	.1625	.1617	.1630	.1622	.1625	.1617	.1620	.1612	.1622	.1614	.1620	.1612
#12	28	.1913	.1906	.1918	.1911	.1921	.1914	.1923	.1916	.1928	.1921	.1923	.1916	.1918	.1911	.1921	.1914	.1918	.1911
#12	24	.1874	.1866	.1879	.1871	.1881	.1873	.1884	.1876	.1889	.1881	.1884	.1876	.1879	.1871	.1881	.1873	.1879	.1871
1/4	20	.2159	.2150	.2164	.2155	.2167	.2158	.2170	.2161	.2176	.2167	.2170	.2161	.2164	.2155	.2167	.2158	.2164	.2155
1/4	28	.2254	.2246	.2259	.2251	.2261	.2253	.2264	.2256	.2269	.2261	.2264	.2256	.2259	.2251	.2261	.2253	.2259	.2251
5/16	18	.2724	.2737	.2753	.2743	.2756	.2746	.2759	.2749	.2765	.2755	.2759	.2749	.2753	.2743	.2756	.2746	.2753	.2743
5/16	24	.2839	.2830	.2845	.2836	.2847	.2838	.2850	.2841	.2855	.2846	.2850	.2841	.2845	.2836	.2847	.2838	.2845	.2836
3/8	16	.3326	.3314	.3333	.3321	.3336	.3324	.3340	.3328	.3346	.3334	.3340	.3328	.3346	.3334	.3340	.3328	.3333	.3321
3/8	24	.3463	.3453	.3469	.3459	.3472	.3462	.3475	.3465	.3480	.3470	.3475	.3465	.3469	.3459	.3472	.3462	.3469	.3459
7/16	14	.3893	.3880	.3900	.3887	.3903	.3890	.3907	.3894	.3914	.3901	.3907	.3894	.3900	.3887	.3903	.3890	.3900	.3887
7/16	20	.4032	.4022	.4038	.4028	.4041	.4031	.4044	.4034	.4051	.4041	.4044	.4034	.4038	.4028	.4041	.4031	.4038	.4028
1/2	13	.4480	.4467	.4487	.4474	.4491	.4478	.4495	.4482	.4502	.4489	.4495	.4482	.4487	.4474	.4491	.4478	.4487	.4474
1/2	20	.4657	.4646	.4664	.4653	.4654	.4643	.4670	.4659	.4676	.4665	.4670	.4659	.4664	.4653	.4654	.4643	.4664	.4653
9/16	12	.5062	.5049	.5070	.5057	.5070	.5057	.5078	.5065	.5085	.5072	.5078	.5065	.5070	.5057	.5070	.5057	.5070	.5057
9/16	18	.5246	.5233	.5253	.5240	.5253	.5240	.5260	.5247	.5267	.5254	.5260	.5247	.5253	.5240	.5253	.5240	.5253	.5240
5/8	11	.5636	.5623	.5644	.5631	.5644	.5631	.5653	.5640	.5661	.5648	.5653	.5640	.5644	.5631	.5644	.5631	.5644	.5631
5/8	18	.5871	.5858	.5878	.5865	.5878	.5865	.5885	.5872	.5892	.5879	.5885	.5872	.5878	.5865	.5878	.5865	.5878	.5865
3/4	10	.6825	.6810	.6834	.6819	.6834	.6819	.6843	.6828	.6852	.6837	.6843	.6828	.6834	.6819	.6834	.6819	.6834	.6819
3/4	16	.7073	.7060	.7080	.7067	.7080	.7067	.7088	.7075	.7096	.7083	.7088	.7075	.7080	.7067	.7080	.7067	.7087	.7067
7/8	9	.8002	.7986	.8010	.7994	.8011	.7995	.8021	.8005	.8030	.8014	.8021	.8005	.8010	.7994	.8011	.7995	.8010	.7994
7/8	14	.8262	.8249	.8270	.8257	.8270	.8257	.8279	.8266	.8287	.8274	.8279	.8266	.8270	.8257	.8270	.8257	.8270	.8257
1	8	.9160	.9142	.9170	.9151	.9170	.9152	.9180	.9162	.9191	.9173	.9180	.9162	.9170	.9152	.9170	.9152	.9170	.9152
1	12	.9434	.9419	.9443	.9428	.9442	.9415	.9452	.9437	.9461	.9446	.9452	.9437	.9443	.9428	.9442	.9415	.9443	.9428
1-1/8	7	1.0292	1.0273	1.0303	1.0284	1.0303	1.0284	1.0314	1.0295	1.0325	1.0306	1.0314	1.0295	1.0303	1.0284	1.0303	1.0284	1.0303	1.0284
1-1/8	12	1.0684	1.0669	1.0693	1.0678	1.0693	1.0678	1.0693	1.0678	1.0711	1.0696	1.0693	1.0678	1.0693	1.0678	1.0693	1.0678	1.0693	1.0678
1-1/4	7	1.1542	1.1523	1.1553	1.1534	1.1553	1.1534	1.1553	1.1534	1.1575	1.1556	1.1553	1.1534	1.1553	1.1534	1.1553	1.1534	1.1553	1.1534
1-1/4	12	1.1933	1.1918	1.1942	1.1927	1.1942	1.1927	1.1951	1.1936	1.1960	1.1945	1.1951	1.1936	1.1942	1.1927	1.1942	1.1927	1.1942	1.1927
1-3/8	6	1.2633	1.2613	1.2645	1.2625	1.2651	1.2631	1.2657	1.2637	1.2665	1.2649	1.2657	1.2637	1.2645	1.2625	1.2651	1.2631	1.2645	1.2625
1-3/8	12	1.3182	1.3167	1.3191	1.3176	1.3196	1.3181	1.3200	1.3185	1.3210	1.3195	1.3200	1.3185	1.3191	1.3176	1.3196	1.3181	1.3191	1.3176
1-1/2	6	1.3883	1.3862	1.3894	1.3874	1.3900	1.3880	1.3906	1.3886	1.3918	1.3898	1.3906	1.3886	1.3894	1.3874	1.3900	1.3880	1.3894	1.3874
1-1/2	12	1.4433	1.4416	1.4442	1.4425	1.4447	1.4430	1.4451	1.4434	1.4461	1.4444	1.4451	1.4434	1.4442	1.4425	1.4447	1.4430	1.4442	1.4435
1-3/4	5	1.6165	1.6141	1.6178	1.6154	1.6185	1.6161	1.6191	1.6167	1.6205	1.6181	1.6191	1.6167	1.6178	1.6154	1.6185	1.6161	1.6178	1.6159
2	4-1/2	1.8518	1.8493	1.8532	1.8507	1.8539	1.8514	1.8546	1.8521	1.8561	1.8536	1.8546	1.8521	1.8532	1.8507	1.8539	1.8514	1.8532	1.8507

Note: These dimensions are for set-up reference. Diameters must be finally established by actual rolling.

* Only Certain Grades Rollable

Axial Thread Rolling

RSVP Tooling, Inc.



Axial Thread Rolling

Recommended Blank Diameters - Blank Dia. In Inches & MMs for Straight, Metric Threads

Size in MM			Steel												Aluminum Alloy					
			10-50 C Soft		30-50 C Soft		30-50 C or Alloy 15-25 RC		30-50 C Chrome Nickel 26-32 RC		Stainless Chrome 300 Series*		Stainless Chrome 400 Series*		Brass and Bronze		Soft		Hard	
O.D.	Pitch		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
3	.35	M/M	2.756	2.743	2.764	2.751	2.769	2.756	2.771	2.758	2.779	2.766	2.771	2.758	2.764	2.751	2.769	2.756	2.764	2.751
		In.	.1085	.1080	.1088	.1083	.1090	.1085	.1091	.1086	.1094	.1089	.1091	.1086	.1088	.1083	.1090	.1085	.1088	.1083
3	.5	M/M	2.652	2.639	2.659	2.647	2.664	2.652	2.667	2.654	2.675	2.662	2.667	2.654	2.659	2.647	2.664	2.652	2.659	2.647
		In.	.1044	.1039	.1047	.1042	.1049	.1044	.1050	.1045	.1053	.1048	.1050	.1045	.1047	.1042	.1049	.1044	.1047	.1042
3.5	.35	M/M	3.256	3.244	3.261	3.249	3.266	3.254	3.269	3.256	3.277	3.264	3.269	3.256	3.261	3.249	3.266	3.254	3.261	3.249
		In.	.1282	.1277	.1284	.1279	.1286	.1281	.1287	.1282	.1290	.1285	.1287	.1282	.1284	.1279	.1286	.1281	.1284	.1279
3.5	.6	M/M	3.084	3.071	3.094	3.081	3.096	3.084	3.101	3.089	3.109	3.096	3.101	3.089	3.094	3.081	3.096	3.084	3.094	3.081
		In.	.1214	.1209	.1218	.1213	.1219	.1214	.1221	.1216	.1224	.1219	.1221	.1216	.1218	.1213	.1219	.1214	.1218	.1213
4	.5	M/M	3.653	3.640	3.660	3.647	3.663	3.650	3.668	3.655	3.675	3.663	3.668	3.655	3.660	3.647	3.663	3.650	3.660	3.647
		In.	.1438	.1433	.1441	.1436	.1442	.1437	.1444	.1439	.1447	.1442	.1444	.1439	.1441	.1436	.1442	.1437	.1441	.1436
4	.7	M/M	3.520	3.505	3.528	3.513	3.533	3.518	3.538	3.523	3.548	3.533	3.538	3.523	3.528	3.513	3.533	3.518	3.528	3.513
		In.	.1386	.1380	.1389	.1383	.1391	.1385	.1393	.1387	.1397	.1391	.1393	.1387	.1389	.1383	.1391	.1385	.1389	.1383
4.5	.5	M/M	4.153	4.140	4.161	4.148	4.163	4.150	4.168	4.155	4.176	4.163	4.168	4.155	4.161	4.148	4.163	4.150	4.161	4.148
		In.	.1635	.1630	.1638	.1633	.1639	.1634	.1641	.1636	.1644	.1639	.1641	.1636	.1638	.1633	.1639	.1634	.1638	.1633
5	.5	M/M	4.651	4.638	4.661	4.648	4.663	4.651	4.666	4.653	4.676	4.663	4.666	4.653	4.661	4.648	4.663	4.651	4.661	4.648
		In.	.1831	.1826	.1835	.1830	.1836	.1831	.1837	.1832	.1841	.1836	.1837	.1832	.1835	.1830	.1836	.1831	.1835	.1830
5	.8	M/M	4.455	4.437	4.463	4.448	4.468	4.453	4.473	4.458	4.483	4.468	4.473	4.463	4.448	4.468	4.453	4.463	4.448	4.361
		In.	.1754	.1747	.1757	.1751	.1759	.1753	.1761	.1755	.1765	.1758	.1761	.1755	.1757	.1751	.1759	.1753	.1757	.1751
6	.75	M/M	5.484	5.469	5.494	5.479	5.499	5.484	5.504	5.489	5.512	5.496	5.504	5.489	5.494	5.479	5.499	5.484	5.494	5.479
		In.	.2159	.2153	.2163	.2157	.2165	.2159	.2167	.2161	.2170	.2164	.2167	.2161	.2163	.2157	.2165	.2159	.2163	.2157
6	1.0	M/M	5.314	5.293	5.326	5.306	5.334	5.314	5.339	5.319	5.352	5.331	5.339	5.319	5.326	5.306	5.334	5.314	5.326	5.306
		In.	.2092	.2084	.2097	.2089	.2100	.2092	.2102	.2094	.2107	.2099	.2102	.2094	.2097	.2089	.2100	.2092	.2097	.2089
7	.75	M/M	6.485	6.469	6.495	6.480	6.500	6.485	6.505	6.490	6.513	6.497	6.505	6.490	6.495	6.480	6.500	6.485	6.495	6.480
		In.	.2553	.2547	.2557	.2551	.2559	.2553	.2561	.2555	.2564	.2558	.2561	.2555	.2557	.2551	.2559	.2553	.2557	.2551
7	1.0	M/M	6.314	6.294	6.327	6.307	6.335	6.314	6.340	6.320	6.353	6.332	6.340	6.320	6.327	6.307	6.335	6.314	6.327	6.307
		In.	.2486	.2478	.2491	.2483	.2494	.2486	.2496	.2488	.2501	.2493	.2496	.2488	.2491	.2483	.2494	.2486	.2491	.2483
8	1.0	M/M	7.315	7.295	7.328	7.308	7.336	7.315	7.341	7.320	7.353	7.333	7.341	7.320	7.328	7.308	7.336	7.315	7.328	7.308
		In.	.2880	.2872	.2885	.2877	.2888	.2880	.2890	.2882	.2895	.2887	.2890	.2882	.2885	.2877	.2888	.2880	.2885	.2877
8	1.25	M/M	7.150	7.130	7.163	7.142	7.168	7.148	7.176	7.155	7.188	7.168	7.176	7.155	7.163	7.142	7.168	7.148	7.163	7.142
		In.	.2815	.2807	.2820	.2812	.2822	.2814	.2825	.2817	.2830	.2822	.2825	.2817	.2820	.2812	.2822	.2814	.2820	.2812
9	1.0	M/M	8.313	8.293	8.326	8.306	8.334	8.313	8.339	8.319	8.352	8.331	8.339	8.319	8.326	8.306	8.334	8.313	8.326	8.306
		In.	.3273	.3265	.3278	.3270	.3281	.3273	.3283	.3275	.3288	.3280	.3283	.3275	.3278	.3270	.3281	.3273	.3278	.3270
9	1.25	M/M	8.151	8.131	8.164	8.143	8.169	8.148	8.176	8.156	8.189	8.169	8.176	8.156	8.164	8.143	8.169	8.148	8.164	8.143
		In.	.3209	.3201	.3214	.3206	.3216	.3208	.3219	.3211	.3224	.3216	.3219	.3211	.3214	.3206	.3216	.3208	.3214	.3206
10	1.0	M/M	9.314	9.294	9.327	9.307	9.335	9.314	9.340	9.319	9.352	9.332	9.340	9.319	9.327	9.307	9.335	9.314	9.327	9.307
		In.	.3667	.3659	.3672	.3664	.3675	.3667	.3677	.3669	.3682	.3674	.3677	.3669	.3672	.3664	.3675	.3667	.3672	.3664
10	1.5	M/M	8.984	8.956	8.999	8.979	9.007	8.979	9.014	8.989	9.030	9.004	9.014	8.989	8.999	8.979	9.007	8.979	8.999	8.979
		In.	.3537	.3526	.3543	.3532	.3546	.3535	.3549	.3539	.3555	.3545	.3549	.3539	.3543	.3532	.3546	.3535	.3543	.3532
11	1.5	M/M	9.982	9.954	9.997	9.970	10.005	9.977	10.012	9.987	10.027	10.003	10.012	9.987	9.997	9.970	10.005	9.977	9.997	9.970
		In.	.3930	.3919	.3936	.3925	.3939	.3928	.3942	.3932	.3948	.3938	.3942	.3932	.3936	.3925	.3939	.3928	.3936	.3925
12	1.5	M/M	10.983	10.955	10.998	10.970	11.006	10.978	11.013	10.988	11.029	11.003	11.013	10.988	10.998	10.970	11.006	10.978	10.998	10.970
		In.	.4324	.4313	.4330	.4319	.4333	.4322	.4336	.4326	.4342	.4332	.4336	.4326	.4330	.4319	.4333	.4322	.4330	.4319
12	1.75	M/M	10.818	10.785	10.836	10.803	10.843	10.810	10.853	10.820	10.871	10.838	10.853	10.820	10.836	10.803	10.843	10.810	10.836	10.803
		In.	.4259	.4246	.4266	.4253	.4269	.4256	.4273	.4260	.4280	.4267	.4273	.4260	.4266	.4253	.4269	.4256	.4266	.4253
14	1.5	M/M	12.982	12.954	12.997	12.969	13.005	12.977	13.012	12.987	13.028	13.002	13.012	12.987	12.997	12.969	13.005	12.977	12.997	12.969
		In.	.5111	.5100	.5117	.5106	.5120	.5109	.5123	.5113	.5129	.5119	.5123	.5113	.5117	.5106	.5120	.5109	.5117	.5106
14	2	M/M	12.647	12.614	12.664	12.631	12.675	12.642	12.685	12.652	12.705	12.672	12.685	12.652	12.664	12.631	12.675	12.642	12.664	12.631
		In.	.4979	.4966	.4986	.4973	.4990	.4977	.4994	.4981	.5002	.4989	.4994	.4981	.4986	.4973	.4990	.4977	.4986	.4973
16	1.5	M/M	14.983	14.956	14.999	14.971	15.006	14.978	15.014	14.989	15.029	15.004	15.014	14.989	14.999	14.971	15.006	14.978	14.999	14.971
		In.	.5899	.5888	.5905	.5894	.5908	.5897	.5911	.5901	.5917	.5907	.5911	.5901	.5905	.5894	.5908	.5897	.5905	.5894
16	2	M/M	14.648	14.615	14.666	14.633	14.676	14.643	14.686	14.653	14.707	14.674	14.686	14.653	14.666	14.633	14.676	14.643	14.666	14.633
		In.	.5767	.5754	.5774	.5761	.5778	.5765	.5782	.5769	.5790	.5777	.5782	.5769	.5774	.5761	.5778	.5765	.5774	.5761
18	1.5	M/M	16.982	16.955	16.998	16.970	17.005	16.977	17.013	16.988	17.028	17.003	17.013	16.988	16.998	16.970	17.005	16.977	16.998	16.970
		In.	.6686	.6675	.6692	.6681	.6695	.6684	.6698	.6688	.6704	.6694	.6698	.6688	.6692	.6681	.6695	.6684	.6692	.6681
18	2.5	M/M	16.312	16.274	16.335	16.297	16.345	16.307	16.358	16.320	16.380	16.342	16.358	16.320	16.335	16.297	16.345	1		