

## Normal Shock Tables

$$\gamma = 1.4$$

$M_1$	$M_2$	$P_2/P_1$	$\rho_2/\rho_1$	$T_2/T_1$	$P_{02}/P_{01}$	$P_1/P_{02}$
1.00	1.0000	1.0000	1.0000	1.0000	1.0000	0.5283
1.01	0.9901	1.0235	1.0167	1.0066	1.0000	0.5221
1.02	0.9805	1.0471	1.0334	1.0132	1.0000	0.5160
1.03	0.9712	1.0711	1.0502	1.0198	1.0000	0.5100
1.04	0.9620	1.0952	1.0671	1.0263	0.9999	0.5039
1.05	0.9531	1.1196	1.0840	1.0328	0.9999	0.4979
1.06	0.9444	1.1442	1.1009	1.0393	0.9998	0.4920
1.07	0.9360	1.1691	1.1179	1.0458	0.9996	0.4861
1.08	0.9277	1.1941	1.1349	1.0522	0.9994	0.4803
1.09	0.9196	1.2195	1.1520	1.0586	0.9992	0.4746
1.10	0.9118	1.2450	1.1691	1.0649	0.9989	0.4689
1.11	0.9041	1.2708	1.1862	1.0713	0.9986	0.4632
1.12	0.8966	1.2968	1.2034	1.0776	0.9982	0.4576
1.13	0.8892	1.3231	1.2206	1.0840	0.9978	0.4521
1.14	0.8820	1.3495	1.2378	1.0903	0.9973	0.4467
1.15	0.8750	1.3763	1.2550	1.0966	0.9967	0.4413
1.16	0.8682	1.4032	1.2723	1.1029	0.9961	0.4360
1.17	0.8615	1.4304	1.2896	1.1092	0.9953	0.4307
1.18	0.8549	1.4578	1.3069	1.1154	0.9946	0.4255
1.19	0.8485	1.4855	1.3243	1.1217	0.9937	0.4204
1.20	0.8422	1.5133	1.3416	1.1280	0.9928	0.4154
1.21	0.8360	1.5415	1.3590	1.1343	0.9918	0.4104
1.22	0.8300	1.5698	1.3764	1.1405	0.9907	0.4055
1.23	0.8241	1.5984	1.3938	1.1468	0.9896	0.4006
1.24	0.8183	1.6272	1.4112	1.1531	0.9884	0.3958
1.25	0.8126	1.6563	1.4286	1.1594	0.9871	0.3911
1.26	0.8071	1.6855	1.4460	1.1657	0.9857	0.3865
1.27	0.8016	1.7151	1.4634	1.1720	0.9842	0.3819
1.28	0.7963	1.7448	1.4808	1.1783	0.9827	0.3774
1.29	0.7911	1.7748	1.4983	1.1846	0.9811	0.3729
1.30	0.7860	1.8050	1.5157	1.1909	0.9794	0.3685
1.31	0.7809	1.8355	1.5331	1.1972	0.9776	0.3642
1.32	0.7760	1.8661	1.5505	1.2035	0.9758	0.3599
1.33	0.7712	1.8971	1.5680	1.2099	0.9738	0.3557
1.34	0.7664	1.9282	1.5854	1.2162	0.9718	0.3516

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1.35	0.7618	1.9596	1.6028	1.2226	0.9697	0.3475
1.36	0.7572	1.9912	1.6202	1.2290	0.9676	0.3435
1.37	0.7527	2.0231	1.6376	1.2354	0.9653	0.3395
1.38	0.7483	2.0551	1.6549	1.2418	0.9630	0.3356
1.39	0.7440	2.0875	1.6723	1.2482	0.9607	0.3317
1.40	0.7397	2.1200	1.6897	1.2547	0.9582	0.3280
1.41	0.7355	2.1528	1.7070	1.2612	0.9557	0.3242
1.42	0.7314	2.1858	1.7243	1.2676	0.9531	0.3205
1.43	0.7274	2.2191	1.7416	1.2741	0.9504	0.3169
1.44	0.7235	2.2525	1.7589	1.2807	0.9476	0.3133
1.45	0.7196	2.2863	1.7761	1.2872	0.9448	0.3098
1.46	0.7157	2.3202	1.7934	1.2938	0.9420	0.3063
1.47	0.7120	2.3544	1.8106	1.3003	0.9390	0.3029
1.48	0.7083	2.3888	1.8278	1.3069	0.9360	0.2996
1.49	0.7047	2.4235	1.8449	1.3136	0.9329	0.2962
1.50	0.7011	2.4583	1.8621	1.3202	0.9298	0.2930
1.51	0.6976	2.4935	1.8792	1.3269	0.9266	0.2898
1.52	0.6941	2.5288	1.8963	1.3336	0.9233	0.2866
1.53	0.6907	2.5644	1.9133	1.3403	0.9200	0.2835
1.54	0.6874	2.6002	1.9303	1.3470	0.9166	0.2804
1.55	0.6841	2.6363	1.9473	1.3538	0.9132	0.2773
1.56	0.6809	2.6725	1.9643	1.3606	0.9097	0.2743
1.57	0.6777	2.7091	1.9812	1.3674	0.9062	0.2714
1.58	0.6746	2.7458	1.9981	1.3742	0.9026	0.2685
1.59	0.6715	2.7828	2.0149	1.3811	0.8989	0.2656
1.60	0.6684	2.8200	2.0317	1.3880	0.8952	0.2628
1.61	0.6655	2.8575	2.0485	1.3949	0.8915	0.2600
1.62	0.6625	2.8951	2.0653	1.4018	0.8877	0.2573
1.63	0.6596	2.9331	2.0820	1.4088	0.8838	0.2546
1.64	0.6568	2.9712	2.0986	1.4158	0.8799	0.2519
1.65	0.6540	3.0096	2.1152	1.4228	0.8760	0.2493
1.66	0.6512	3.0482	2.1318	1.4299	0.8720	0.2467
1.67	0.6485	3.0871	2.1484	1.4369	0.8680	0.2442
1.68	0.6458	3.1261	2.1649	1.4440	0.8639	0.2417
1.69	0.6431	3.1655	2.1813	1.4512	0.8599	0.2392

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1.70	0.6405	3.2050	2.1977	1.4583	0.8557	0.2368
1.71	0.6380	3.2448	2.2141	1.4655	0.8516	0.2343
1.72	0.6355	3.2848	2.2304	1.4727	0.8474	0.2320
1.73	0.6330	3.3251	2.2467	1.4800	0.8431	0.2296
1.74	0.6305	3.3655	2.2629	1.4873	0.8389	0.2273
1.75	0.6281	3.4063	2.2791	1.4946	0.8346	0.2251
1.76	0.6257	3.4472	2.2952	1.5019	0.8302	0.2228
1.77	0.6234	3.4884	2.3113	1.5093	0.8259	0.2206
1.78	0.6210	3.5298	2.3273	1.5167	0.8215	0.2184
1.79	0.6188	3.5715	2.3433	1.5241	0.8171	0.2163
1.80	0.6165	3.6133	2.3592	1.5316	0.8127	0.2142
1.81	0.6143	3.6555	2.3751	1.5391	0.8082	0.2121
1.82	0.6121	3.6978	2.3909	1.5466	0.8038	0.2100
1.83	0.6099	3.7404	2.4067	1.5541	0.7993	0.2080
1.84	0.6078	3.7832	2.4224	1.5617	0.7948	0.2060
1.85	0.6057	3.8263	2.4381	1.5693	0.7902	0.2040
1.86	0.6036	3.8695	2.4537	1.5770	0.7857	0.2020
1.87	0.6016	3.9131	2.4693	1.5847	0.7811	0.2001
1.88	0.5996	3.9568	2.4848	1.5924	0.7765	0.1982
1.89	0.5976	4.0008	2.5003	1.6001	0.7720	0.1963
1.90	0.5956	4.0450	2.5157	1.6079	0.7674	0.1945
1.91	0.5937	4.0895	2.5310	1.6157	0.7627	0.1927
1.92	0.5918	4.1341	2.5463	1.6236	0.7581	0.1909
1.93	0.5899	4.1791	2.5616	1.6314	0.7535	0.1891
1.94	0.5880	4.2242	2.5767	1.6394	0.7488	0.1873
1.95	0.5862	4.2696	2.5919	1.6473	0.7442	0.1856
1.96	0.5844	4.3152	2.6069	1.6553	0.7395	0.1839
1.97	0.5826	4.3611	2.6220	1.6633	0.7349	0.1822
1.98	0.5808	4.4071	2.6369	1.6713	0.7302	0.1806
1.99	0.5791	4.4535	2.6518	1.6794	0.7255	0.1789
2.00	0.5774	4.5000	2.6667	1.6875	0.7209	0.1773
2.01	0.5757	4.5468	2.6815	1.6956	0.7162	0.1757
2.02	0.5740	4.5938	2.6962	1.7038	0.7115	0.1741
2.03	0.5723	4.6411	2.7109	1.7120	0.7069	0.1726
2.04	0.5707	4.6885	2.7255	1.7203	0.7022	0.1710

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2.05	0.5691	4.7363	2.7400	1.7285	0.6975	0.1695
2.06	0.5675	4.7842	2.7545	1.7369	0.6928	0.1680
2.07	0.5659	4.8324	2.7689	1.7452	0.6882	0.1665
2.08	0.5643	4.8808	2.7833	1.7536	0.6835	0.1651
2.09	0.5628	4.9294	2.7976	1.7620	0.6789	0.1636
2.10	0.5613	4.9783	2.8119	1.7705	0.6742	0.1622
2.11	0.5598	5.0274	2.8261	1.7789	0.6696	0.1608
2.12	0.5583	5.0768	2.8402	1.7875	0.6649	0.1594
2.13	0.5568	5.1264	2.8543	1.7960	0.6603	0.1580
2.14	0.5554	5.1762	2.8683	1.8046	0.6557	0.1567
2.15	0.5540	5.2262	2.8823	1.8132	0.6511	0.1553
2.16	0.5525	5.2765	2.8962	1.8219	0.6464	0.1540
2.17	0.5511	5.3270	2.9101	1.8306	0.6419	0.1527
2.18	0.5498	5.3778	2.9238	1.8393	0.6373	0.1514
2.19	0.5484	5.4288	2.9376	1.8481	0.6327	0.1501
2.20	0.5471	5.4800	2.9512	1.8569	0.6281	0.1489
2.21	0.5457	5.5314	2.9648	1.8657	0.6236	0.1476
2.22	0.5444	5.5831	2.9784	1.8746	0.6191	0.1464
2.23	0.5431	5.6350	2.9918	1.8835	0.6145	0.1452
2.24	0.5418	5.6872	3.0053	1.8924	0.6100	0.1440
2.25	0.5406	5.7396	3.0186	1.9014	0.6055	0.1428
2.26	0.5393	5.7922	3.0319	1.9104	0.6011	0.1416
2.27	0.5381	5.8450	3.0452	1.9194	0.5966	0.1405
2.28	0.5368	5.8981	3.0584	1.9285	0.5921	0.1394
2.29	0.5356	5.9514	3.0715	1.9376	0.5877	0.1382
2.30	0.5344	6.0050	3.0845	1.9468	0.5833	0.1371
2.31	0.5332	6.0588	3.0976	1.9560	0.5789	0.1360
2.32	0.5321	6.1128	3.1105	1.9652	0.5745	0.1349
2.33	0.5309	6.1670	3.1234	1.9745	0.5702	0.1338
2.34	0.5297	6.2215	3.1362	1.9838	0.5658	0.1328
2.35	0.5286	6.2762	3.1490	1.9931	0.5615	0.1317
2.36	0.5275	6.3312	3.1617	2.0025	0.5572	0.1307
2.37	0.5264	6.3864	3.1743	2.0119	0.5529	0.1296
2.38	0.5253	6.4418	3.1869	2.0213	0.5486	0.1286
2.39	0.5242	6.4974	3.1994	2.0308	0.5444	0.1276

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2.40	0.5231	6.5533	3.2119	2.0403	0.5401	0.1266
2.41	0.5221	6.6095	3.2243	2.0499	0.5359	0.1256
2.42	0.5210	6.6658	3.2367	2.0595	0.5317	0.1247
2.43	0.5200	6.7224	3.2489	2.0691	0.5276	0.1237
2.44	0.5189	6.7792	3.2612	2.0788	0.5234	0.1228
2.45	0.5179	6.8362	3.2733	2.0885	0.5193	0.1218
2.46	0.5169	6.8935	3.2855	2.0982	0.5152	0.1209
2.47	0.5159	6.9510	3.2975	2.1080	0.5111	0.1200
2.48	0.5149	7.0088	3.3095	2.1178	0.5071	0.1191
2.49	0.5140	7.0668	3.3215	2.1276	0.5030	0.1182
2.50	0.5130	7.1250	3.3333	2.1375	0.4990	0.1173
2.51	0.5120	7.1834	3.3452	2.1474	0.4950	0.1164
2.52	0.5111	7.2421	3.3569	2.1574	0.4911	0.1155
2.53	0.5102	7.3010	3.3686	2.1674	0.4871	0.1147
2.54	0.5092	7.3602	3.3803	2.1774	0.4832	0.1138
2.55	0.5083	7.4196	3.3919	2.1875	0.4793	0.1130
2.56	0.5074	7.4792	3.4034	2.1976	0.4754	0.1122
2.57	0.5065	7.5390	3.4149	2.2077	0.4715	0.1113
2.58	0.5056	7.5991	3.4263	2.2179	0.4677	0.1105
2.59	0.5047	7.6594	3.4377	2.2281	0.4639	0.1097
2.60	0.5039	7.7200	3.4490	2.2383	0.4601	0.1089
2.61	0.5030	7.7808	3.4602	2.2486	0.4564	0.1081
2.62	0.5022	7.8418	3.4714	2.2590	0.4526	0.1073
2.63	0.5013	7.9030	3.4826	2.2693	0.4489	0.1066
2.64	0.5005	7.9645	3.4937	2.2797	0.4452	0.1058
2.65	0.4996	8.0262	3.5047	2.2902	0.4416	0.1051
2.66	0.4988	8.0882	3.5157	2.3006	0.4379	0.1043
2.67	0.4980	8.1504	3.5266	2.3111	0.4343	0.1036
2.68	0.4972	8.2128	3.5374	2.3217	0.4307	0.1028
2.69	0.4964	8.2754	3.5482	2.3323	0.4271	0.1021
2.70	0.4956	8.3383	3.5590	2.3429	0.4236	0.1014
2.71	0.4949	8.4014	3.5697	2.3536	0.4201	0.1007
2.72	0.4941	8.4648	3.5803	2.3642	0.4166	0.1000
2.73	0.4933	8.5284	3.5909	2.3750	0.4131	.9929 E-1
2.74	0.4926	8.5922	3.6015	2.3858	0.4097	.9860 E-1

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2.75	0.4918	8.6563	3.6119	2.3966	0.4062	.9792 E-1
2.76	0.4911	8.7205	3.6224	2.4074	0.4028	.9724 E-1
2.77	0.4903	8.7851	3.6327	2.4183	0.3994	.9658 E-1
2.78	0.4896	8.8498	3.6431	2.4292	0.3961	.9591 E-1
2.79	0.4889	8.9148	3.6533	2.4402	0.3928	.9526 E-1
2.80	0.4882	8.9800	3.6636	2.4512	0.3895	.9461 E-1
2.81	0.4875	9.0454	3.6737	2.4622	0.3862	.9397 E-1
2.82	0.4868	9.1111	3.6838	2.4733	0.3829	.9334 E-1
2.83	0.4861	9.1770	3.6939	2.4844	0.3797	.9271 E-1
2.84	0.4854	9.2432	3.7039	2.4955	0.3765	.9209 E-1
2.85	0.4847	9.3096	3.7139	2.5067	0.3733	.9147 E-1
2.86	0.4840	9.3762	3.7238	2.5179	0.3701	.9086 E-1
2.87	0.4833	9.4430	3.7336	2.5292	0.3670	.9026 E-1
2.88	0.4827	9.5101	3.7434	2.5405	0.3639	.8966 E-1
2.89	0.4820	9.5774	3.7532	2.5518	0.3608	.8906 E-1
2.90	0.4814	9.6450	3.7629	2.5632	0.3577	.8848 E-1
2.91	0.4807	9.7128	3.7725	2.5746	0.3547	.8790 E-1
2.92	0.4801	9.7808	3.7821	2.5861	0.3517	.8732 E-1
2.93	0.4795	9.8490	3.7917	2.5976	0.3487	.8675 E-1
2.94	0.4788	9.9175	3.8012	2.6091	0.3457	.8619 E-1
2.95	0.4782	9.9862	3.8106	2.6206	0.3428	.8563 E-1
2.96	0.4776	10.0552	3.8200	2.6322	0.3398	.8507 E-1
2.97	0.4770	10.1244	3.8294	2.6439	0.3369	.8453 E-1
2.98	0.4764	10.1938	3.8387	2.6555	0.3340	.8398 E-1
2.99	0.4758	10.2635	3.8479	2.6673	0.3312	.8345 E-1
3.00	0.4752	10.3333	3.8571	2.6790	0.3283	.8291 E-1
3.01	0.4746	10.4035	3.8663	2.6908	0.3255	.8238 E-1
3.02	0.4740	10.4738	3.8754	2.7026	0.3227	.8186 E-1
3.03	0.4734	10.5444	3.8845	2.7145	0.3200	.8134 E-1
3.04	0.4729	10.6152	3.8935	2.7264	0.3172	.8083 E-1
3.05	0.4723	10.6863	3.9025	2.7383	0.3145	.8032 E-1
3.06	0.4717	10.7575	3.9114	2.7503	0.3118	.7982 E-1
3.07	0.4712	10.8291	3.9203	2.7623	0.3091	.7932 E-1
3.08	0.4706	10.9008	3.9291	2.7744	0.3065	.7882 E-1
3.09	0.4701	10.9728	3.9379	2.7865	0.3038	.7833 E-1

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3.10	0.4695	11.0450	3.9466	2.7986	0.3012	.7785 E-1
3.11	0.4690	11.1175	3.9553	2.8108	0.2986	.7737 E-1
3.12	0.4685	11.1901	3.9639	2.8230	0.2960	.7689 E-1
3.13	0.4679	11.2631	3.9725	2.8352	0.2935	.7642 E-1
3.14	0.4674	11.3362	3.9811	2.8475	0.2910	.7595 E-1
3.15	0.4669	11.4096	3.9896	2.8598	0.2885	.7549 E-1
3.16	0.4664	11.4832	3.9981	2.8722	0.2860	.7503 E-1
3.17	0.4659	11.5571	4.0065	2.8846	0.2835	.7457 E-1
3.18	0.4654	11.6311	4.0149	2.8970	0.2811	.7412 E-1
3.19	0.4648	11.7055	4.0232	2.9095	0.2786	.7367 E-1
3.20	0.4643	11.7800	4.0315	2.9220	0.2762	.7323 E-1
3.21	0.4639	11.8548	4.0397	2.9345	0.2738	.7279 E-1
3.22	0.4634	11.9298	4.0479	2.9471	0.2715	.7235 E-1
3.23	0.4629	12.0051	4.0561	2.9598	0.2691	.7192 E-1
3.24	0.4624	12.0805	4.0642	2.9724	0.2668	.7149 E-1
3.25	0.4619	12.1563	4.0723	2.9851	0.2645	.7107 E-1
3.26	0.4614	12.2322	4.0803	2.9979	0.2622	.7065 E-1
3.27	0.4610	12.3084	4.0883	3.0106	0.2600	.7023 E-1
3.28	0.4605	12.3848	4.0963	3.0234	0.2577	.6982 E-1
3.29	0.4600	12.4615	4.1042	3.0363	0.2555	.6941 E-1
3.30	0.4596	12.5383	4.1120	3.0492	0.2533	.6900 E-1
3.31	0.4591	12.6155	4.1198	3.0621	0.2511	.6860 E-1
3.32	0.4587	12.6928	4.1276	3.0751	0.2489	.6820 E-1
3.33	0.4582	12.7704	4.1354	3.0881	0.2468	.6781 E-1
3.34	0.4578	12.8482	4.1431	3.1011	0.2446	.6741 E-1
3.35	0.4573	12.9263	4.1507	3.1142	0.2425	.6702 E-1
3.36	0.4569	13.0045	4.1583	3.1273	0.2404	.6664 E-1
3.37	0.4565	13.0831	4.1659	3.1405	0.2383	.6626 E-1
3.38	0.4560	13.1618	4.1734	3.1537	0.2363	.6588 E-1
3.39	0.4556	13.2408	4.1809	3.1669	0.2342	.6550 E-1
3.40	0.4552	13.3200	4.1884	3.1802	0.2322	.6513 E-1
3.41	0.4548	13.3994	4.1958	3.1935	0.2302	.6476 E-1
3.42	0.4544	13.4791	4.2032	3.2069	0.2282	.6439 E-1
3.43	0.4540	13.5590	4.2105	3.2203	0.2263	.6403 E-1
3.44	0.4535	13.6392	4.2179	3.2337	0.2243	.6367 E-1

## Normal Shock Tables

$$\gamma = 1.4$$

$M_1$	$M_2$	$P_2/P_1$	$\rho_2/\rho_1$	$T_2/T_1$	$P_{02}/P_{01}$	$P_1/P_{02}$
3.45	0.4531	13.7196	4.2251	3.2472	0.2224	.6331 E-1
3.46	0.4527	13.8002	4.2323	3.2607	0.2205	.6296 E-1
3.47	0.4523	13.8811	4.2395	3.2742	0.2186	.6261 E-1
3.48	0.4519	13.9621	4.2467	3.2878	0.2167	.6226 E-1
3.49	0.4515	14.0435	4.2538	3.3014	0.2148	.6191 E-1
3.50	0.4512	14.1250	4.2609	3.3151	0.2129	.6157 E-1
3.51	0.4508	14.2068	4.2679	3.3287	0.2111	.6123 E-1
3.52	0.4504	14.2888	4.2749	3.3425	0.2093	.6089 E-1
3.53	0.4500	14.3711	4.2819	3.3563	0.2075	.6056 E-1
3.54	0.4496	14.4535	4.2888	3.3701	0.2057	.6023 E-1
3.55	0.4492	14.5363	4.2957	3.3839	0.2039	.5990 E-1
3.56	0.4489	14.6192	4.3026	3.3978	0.2022	.5957 E-1
3.57	0.4485	14.7024	4.3094	3.4117	0.2004	.5925 E-1
3.58	0.4481	14.7858	4.3162	3.4257	0.1987	.5892 E-1
3.59	0.4478	14.8695	4.3229	3.4397	0.1970	.5861 E-1
3.60	0.4474	14.9533	4.3296	3.4537	0.1953	.5829 E-1
3.61	0.4471	15.0375	4.3363	3.4678	0.1936	.5798 E-1
3.62	0.4467	15.1218	4.3429	3.4819	0.1920	.5767 E-1
3.63	0.4463	15.2064	4.3496	3.4961	0.1903	.5736 E-1
3.64	0.4460	15.2912	4.3561	3.5103	0.1887	.5705 E-1
3.65	0.4456	15.3763	4.3627	3.5245	0.1871	.5675 E-1
3.66	0.4453	15.4615	4.3692	3.5388	0.1855	.5645 E-1
3.67	0.4450	15.5471	4.3756	3.5531	0.1839	.5615 E-1
3.68	0.4446	15.6328	4.3821	3.5674	0.1823	.5585 E-1
3.69	0.4443	15.7188	4.3885	3.5818	0.1807	.5556 E-1
3.70	0.4439	15.8050	4.3949	3.5962	0.1792	.5526 E-1
3.71	0.4436	15.8915	4.4012	3.6107	0.1777	.5497 E-1
3.72	0.4433	15.9781	4.4075	3.6252	0.1761	.5469 E-1
3.73	0.4430	16.0650	4.4138	3.6397	0.1746	.5440 E-1
3.74	0.4426	16.1522	4.4200	3.6543	0.1731	.5412 E-1
3.75	0.4423	16.2396	4.4262	3.6689	0.1717	.5384 E-1
3.76	0.4420	16.3272	4.4324	3.6836	0.1702	.5356 E-1
3.77	0.4417	16.4150	4.4385	3.6983	0.1687	.5328 E-1
3.78	0.4414	16.5031	4.4447	3.7130	0.1673	.5301 E-1
3.79	0.4410	16.5914	4.4507	3.7278	0.1659	.5274 E-1



## Normal Shock Tables

$$\gamma = 1.4$$

$M_1$	$M_2$	$P_2/P_1$	$\rho_2/\rho_1$	$T_2/T_1$	$P_{02}/P_{01}$	$P_1/P_{02}$
3.80	0.4407	16.6800	4.4568	3.7426	0.1645	.5247 E-1
3.81	0.4404	16.7688	4.4628	3.7575	0.1631	.5220 E-1
3.82	0.4401	16.8578	4.4688	3.7723	0.1617	.5193 E-1
3.83	0.4398	16.9471	4.4747	3.7873	0.1603	.5167 E-1
3.84	0.4395	17.0365	4.4807	3.8022	0.1589	.5140 E-1
3.85	0.4392	17.1263	4.4866	3.8172	0.1576	.5114 E-1
3.86	0.4389	17.2162	4.4924	3.8323	0.1563	.5089 E-1
3.87	0.4386	17.3064	4.4983	3.8473	0.1549	.5063 E-1
3.88	0.4383	17.3968	4.5041	3.8625	0.1536	.5038 E-1
3.89	0.4380	17.4875	4.5098	3.8776	0.1523	.5012 E-1
3.90	0.4377	17.5783	4.5156	3.8928	0.1510	.4987 E-1
3.91	0.4375	17.6695	4.5213	3.9080	0.1497	.4962 E-1
3.92	0.4372	17.7608	4.5270	3.9233	0.1485	.4938 E-1
3.93	0.4369	17.8524	4.5326	3.9386	0.1472	.4913 E-1
3.94	0.4366	17.9442	4.5383	3.9540	0.1460	.4889 E-1
3.95	0.4363	18.0363	4.5439	3.9694	0.1448	.4865 E-1
3.96	0.4360	18.1285	4.5494	3.9848	0.1435	.4841 E-1
3.97	0.4358	18.2211	4.5550	4.0003	0.1423	.4817 E-1
3.98	0.4355	18.3138	4.5605	4.0158	0.1411	.4793 E-1
3.99	0.4352	18.4068	4.5660	4.0313	0.1399	.4770 E-1
4.00	0.4350	18.5000	4.5714	4.0469	0.1388	.4747 E-1
4.01	0.4347	18.5935	4.5769	4.0625	0.1376	.4723 E-1
4.02	0.4344	18.6871	4.5823	4.0782	0.1364	.4700 E-1
4.03	0.4342	18.7811	4.5876	4.0938	0.1353	.4678 E-1
4.04	0.4339	18.8752	4.5930	4.1096	0.1342	.4655 E-1
4.05	0.4336	18.9696	4.5983	4.1254	0.1330	.4633 E-1
4.06	0.4334	19.0642	4.6036	4.1412	0.1319	.4610 E-1
4.07	0.4331	19.1590	4.6089	4.1570	0.1308	.4588 E-1
4.08	0.4329	19.2541	4.6141	4.1729	0.1297	.4566 E-1
4.09	0.4326	19.3494	4.6193	4.1888	0.1286	.4544 E-1
4.10	0.4324	19.4450	4.6245	4.2048	0.1276	.4523 E-1
4.11	0.4321	19.5408	4.6296	4.2208	0.1265	.4501 E-1
4.12	0.4319	19.6368	4.6348	4.2368	0.1254	.4480 E-1
4.13	0.4316	19.7330	4.6399	4.2529	0.1244	.4459 E-1
4.14	0.4314	19.8295	4.6450	4.2690	0.1234	.4438 E-1

## Normal Shock Tables

$$\gamma = 1.4$$

$M_1$	$M_2$	$P_2/P_1$	$\rho_2/\rho_1$	$T_2/T_1$	$P_{02}/P_{01}$	$P_1/P_{02}$
4.15	0.4311	19.9263	4.6500	4.2852	0.1223	.4417 E-1
4.16	0.4309	20.0232	4.6550	4.3014	0.1213	.4396 E-1
4.17	0.4306	20.1204	4.6601	4.3176	0.1203	.4375 E-1
4.18	0.4304	20.2178	4.6650	4.3339	0.1193	.4355 E-1
4.19	0.4302	20.3155	4.6700	4.3502	0.1183	.4334 E-1
4.20	0.4299	20.4133	4.6749	4.3666	0.1173	.4314 E-1
4.21	0.4297	20.5115	4.6798	4.3830	0.1164	.4294 E-1
4.22	0.4295	20.6098	4.6847	4.3994	0.1154	.4274 E-1
4.23	0.4292	20.7084	4.6896	4.4159	0.1144	.4255 E-1
4.24	0.4290	20.8072	4.6944	4.4324	0.1135	.4235 E-1
4.25	0.4288	20.9063	4.6992	4.4489	0.1126	.4215 E-1
4.26	0.4286	21.0055	4.7040	4.4655	0.1116	.4196 E-1
4.27	0.4283	21.1051	4.7087	4.4821	0.1107	.4177 E-1
4.28	0.4281	21.2048	4.7135	4.4988	0.1098	.4158 E-1
4.29	0.4279	21.3048	4.7182	4.5155	0.1089	.4139 E-1
4.30	0.4277	21.4050	4.7229	4.5322	0.1080	.4120 E-1
4.31	0.4275	21.5055	4.7275	4.5490	0.1071	.4101 E-1
4.32	0.4272	21.6061	4.7322	4.5658	0.1062	.4082 E-1
4.33	0.4270	21.7071	4.7368	4.5827	0.1054	.4064 E-1
4.34	0.4268	21.8082	4.7414	4.5995	0.1045	.4046 E-1
4.35	0.4266	21.9096	4.7460	4.6165	0.1036	.4027 E-1
4.36	0.4264	22.0112	4.7505	4.6334	0.1028	.4009 E-1
4.37	0.4262	22.1131	4.7550	4.6505	0.1020	.3991 E-1
4.38	0.4260	22.2151	4.7595	4.6675	0.1011	.3973 E-1
4.39	0.4258	22.3174	4.7640	4.6846	0.1003	.3956 E-1
4.40	0.4255	22.4200	4.7685	4.7017	.9948 E-1	.3938 E-1
4.41	0.4253	22.5228	4.7729	4.7189	.9867 E-1	.3921 E-1
4.42	0.4251	22.6258	4.7773	4.7361	.9787 E-1	.3903 E-1
4.43	0.4249	22.7290	4.7817	4.7533	.9707 E-1	.3886 E-1
4.44	0.4247	22.8325	4.7861	4.7706	.9628 E-1	.3869 E-1
4.45	0.4245	22.9362	4.7904	4.7879	.9550 E-1	.3852 E-1
4.46	0.4243	23.0402	4.7948	4.8053	.9473 E-1	.3835 E-1
4.47	0.4241	23.1444	4.7991	4.8227	.9396 E-1	.3818 E-1
4.48	0.4239	23.2488	4.8034	4.8401	.9320 E-1	.3801 E-1
4.49	0.4237	23.3534	4.8076	4.8576	.9244 E-1	.3785 E-1

## Normal Shock Tables

$$\gamma = 1.4$$

$M_1$	$M_2$	$P_2/P_1$	$\rho_2/\rho_1$	$T_2/T_1$	$P_{02}/P_{01}$	$P_1/P_{02}$
4.50	0.4236	23.4583	4.8119	4.8751	.9170 E-1	.3768 E-1
4.51	0.4234	23.5635	4.8161	4.8926	.9096 E-1	.3752 E-1
4.52	0.4232	23.6688	4.8203	4.9102	.9022 E-1	.3735 E-1
4.53	0.4230	23.7744	4.8245	4.9279	.8950 E-1	.3719 E-1
4.54	0.4228	23.8802	4.8287	4.9455	.8878 E-1	.3703 E-1
4.55	0.4226	23.9863	4.8328	4.9632	.8806 E-1	.3687 E-1
4.56	0.4224	24.0925	4.8369	4.9810	.8735 E-1	.3671 E-1
4.57	0.4222	24.1991	4.8410	4.9987	.8665 E-1	.3656 E-1
4.58	0.4220	24.3058	4.8451	5.0166	.8596 E-1	.3640 E-1
4.59	0.4219	24.4128	4.8492	5.0344	.8527 E-1	.3624 E-1
4.60	0.4217	24.5200	4.8532	5.0523	.8459 E-1	.3609 E-1
4.61	0.4215	24.6275	4.8572	5.0703	.8391 E-1	.3593 E-1
4.62	0.4213	24.7351	4.8612	5.0882	.8324 E-1	.3578 E-1
4.63	0.4211	24.8431	4.8652	5.1063	.8257 E-1	.3563 E-1
4.64	0.4210	24.9512	4.8692	5.1243	.8192 E-1	.3548 E-1
4.65	0.4208	25.0596	4.8731	5.1424	.8126 E-1	.3533 E-1
4.66	0.4206	25.1682	4.8771	5.1605	.8062 E-1	.3518 E-1
4.67	0.4204	25.2771	4.8810	5.1787	.7998 E-1	.3503 E-1
4.68	0.4203	25.3861	4.8849	5.1969	.7934 E-1	.3488 E-1
4.69	0.4201	25.4955	4.8887	5.2151	.7871 E-1	.3474 E-1
4.70	0.4199	25.6050	4.8926	5.2334	.7809 E-1	.3459 E-1
4.71	0.4197	25.7148	4.8964	5.2518	.7747 E-1	.3445 E-1
4.72	0.4196	25.8248	4.9002	5.2701	.7685 E-1	.3431 E-1
4.73	0.4194	25.9350	4.9040	5.2885	.7625 E-1	.3416 E-1
4.74	0.4192	26.0455	4.9078	5.3070	.7564 E-1	.3402 E-1
4.75	0.4191	26.1562	4.9116	5.3254	.7505 E-1	.3388 E-1
4.76	0.4189	26.2672	4.9153	5.3440	.7445 E-1	.3374 E-1
4.77	0.4187	26.3784	4.9190	5.3625	.7387 E-1	.3360 E-1
4.78	0.4186	26.4898	4.9227	5.3811	.7329 E-1	.3346 E-1
4.79	0.4184	26.6014	4.9264	5.3997	.7271 E-1	.3333 E-1
4.80	0.4183	26.7133	4.9301	5.4184	.7214 E-1	.3319 E-1
4.81	0.4181	26.8254	4.9338	5.4371	.7157 E-1	.3305 E-1
4.82	0.4179	26.9378	4.9374	5.4559	.7101 E-1	.3292 E-1
4.83	0.4178	27.0504	4.9410	5.4747	.7046 E-1	.3278 E-1
4.84	0.4176	27.1632	4.9446	5.4935	.6991 E-1	.3265 E-1

## Normal Shock Tables

$$\gamma = 1.4$$

$M_1$	$M_2$	$P_2/P_1$	$\rho_2/\rho_1$	$T_2/T_1$	$P_{02}/P_{01}$	$P_1/P_{02}$
4.85	0.4175	27.2763	4.9482	5.5124	.6936 E-1	.3252 E-1
4.86	0.4173	27.3895	4.9518	5.5313	.6882 E-1	.3239 E-1
4.87	0.4172	27.5031	4.9553	5.5502	.6828 E-1	.3226 E-1
4.88	0.4170	27.6168	4.9589	5.5692	.6775 E-1	.3213 E-1
4.89	0.4169	27.7308	4.9624	5.5882	.6722 E-1	.3200 E-1
4.90	0.4167	27.8450	4.9659	5.6073	.6670 E-1	.3187 E-1
4.91	0.4165	27.9595	4.9694	5.6264	.6618 E-1	.3174 E-1
4.92	0.4164	28.0741	4.9728	5.6455	.6567 E-1	.3161 E-1
4.93	0.4163	28.1891	4.9763	5.6647	.6516 E-1	.3149 E-1
4.94	0.4161	28.3042	4.9797	5.6839	.6465 E-1	.3136 E-1
4.95	0.4160	28.4196	4.9831	5.7032	.6415 E-1	.3124 E-1
4.96	0.4158	28.5352	4.9865	5.7224	.6366 E-1	.3111 E-1
4.97	0.4157	28.6511	4.9899	5.7418	.6317 E-1	.3099 E-1
4.98	0.4155	28.7671	4.9933	5.7611	.6268 E-1	.3087 E-1
4.99	0.4154	28.8835	4.9967	5.7806	.6220 E-1	.3075 E-1
5.00	0.4152	29.0000	5.0000	5.8000	.6172 E-1	.3062 E-1
5.01	0.4151	29.1168	5.0033	5.8195	.6124 E-1	.3050 E-1
5.02	0.4149	29.2338	5.0066	5.8390	.6077 E-1	.3038 E-1
5.03	0.4148	29.3510	5.0099	5.8586	.6030 E-1	.3027 E-1
5.04	0.4147	29.4685	5.0132	5.8782	.5984 E-1	.3015 E-1
5.05	0.4145	29.5862	5.0165	5.8978	.5938 E-1	.3003 E-1
5.06	0.4144	29.7042	5.0197	5.9175	.5893 E-1	.2991 E-1
5.07	0.4142	29.8224	5.0230	5.9372	.5848 E-1	.2980 E-1
5.08	0.4141	29.9408	5.0262	5.9570	.5803 E-1	.2968 E-1
5.09	0.4140	30.0594	5.0294	5.9768	.5759 E-1	.2957 E-1
5.10	0.4138	30.1783	5.0326	5.9966	.5715 E-1	.2945 E-1
5.11	0.4137	30.2974	5.0357	6.0165	.5672 E-1	.2934 E-1
5.12	0.4136	30.4168	5.0389	6.0364	.5629 E-1	.2923 E-1
5.13	0.4134	30.5364	5.0421	6.0563	.5586 E-1	.2911 E-1
5.14	0.4133	30.6562	5.0452	6.0763	.5543 E-1	.2900 E-1
5.15	0.4132	30.7762	5.0483	6.0964	.5501 E-1	.2889 E-1
5.16	0.4130	30.8965	5.0514	6.1164	.5460 E-1	.2878 E-1
5.17	0.4129	31.0170	5.0545	6.1365	.5418 E-1	.2867 E-1
5.18	0.4128	31.1378	5.0576	6.1567	.5377 E-1	.2856 E-1
5.19	0.4126	31.2588	5.0606	6.1769	.5337 E-1	.2845 E-1