

## AAV7A1 Thrust Required

Speed (mph)	Speed (kts)	Speed (fps)	Froude Number	Required Thrust (lbs) Empty 48,060 lbs	Required Thrust (lbs) Combat Loaded 52,504 lbs	Required Thrust (lbs) Troop Loaded 58,489 lbs	Required Thrust (lbs) Cargo Loaded 62,504 lbs	Available Thrust (lbs)
0.00	0.00	0.00	0.000	0.0	0.0	0.0	0.0	6050.0
0.29	0.25	0.42	0.014	6.0	6.6	7.3	7.7	5983.4
0.57	0.50	0.84	0.028	24.1	26.2	29.0	30.9	5916.8
0.86	0.75	1.27	0.042	54.3	59.0	65.3	69.6	5850.2
1.15	1.00	1.69	0.056	96.5	104.9	116.2	123.7	5783.6
1.44	1.25	2.11	0.070	150.8	163.9	181.5	193.3	5717.0
1.72	1.50	2.53	0.083	217.1	236.0	261.3	278.4	5650.4
2.01	1.75	2.96	0.097	295.5	321.2	355.7	378.9	5583.8
2.30	2.00	3.38	0.111	386.0	419.5	464.6	494.9	5517.1
2.59	2.25	3.80	0.125	456.9	496.4	549.6	585.3	5450.5
2.87	2.50	4.22	0.139	534.6	580.7	642.8	684.4	5383.9
3.16	2.75	4.64	0.153	619.6	672.9	744.7	792.8	5317.3
3.45	3.00	5.07	0.167	712.5	773.7	856.0	911.3	5250.7
3.73	3.25	5.49	0.181	813.8	883.5	977.4	1040.5	5184.1
4.02	3.50	5.91	0.195	924.0	1003.1	1109.6	1181.1	5117.5
4.31	3.75	6.33	0.209	1043.6	1132.9	1253.1	1333.8	5050.9
4.60	4.00	6.76	0.223	1173.2	1273.6	1408.7	1499.3	4984.3
4.88	4.25	7.18	0.237	1313.4	1425.7	1576.9	1678.3	4917.7
5.17	4.50	7.60	0.250	1464.6	1589.8	1758.4	1871.6	4851.1
5.46	4.75	8.02	0.264	1627.5	1766.6	1954.0	2079.7	4784.5
5.74	5.00	8.45	0.278	1802.5	1956.6	2164.2	2303.5	4717.9
6.03	5.25	8.87	0.292	1990.1	2160.4	2389.7	2543.5	4651.3
6.32	5.50	9.29	0.306	2191.0	2378.5	2631.1	2800.6	4584.6
6.61	5.75	9.71	0.320	2405.6	2611.6	2889.1	3075.3	4518.0
6.89	6.00	10.13	0.334	2634.4	2860.3	3164.4	3368.5	4451.4
7.18	6.25	10.56	0.348	2878.2	3125.1	3457.6	3680.7	4384.8
7.47	6.50	10.98	0.362	3137.2	3406.6	3769.4	4012.8	4318.2
7.76	6.75	11.40	0.376	3412.2	3705.4	4100.4	4365.3	4251.6
8.04	7.00	11.82	0.390	3703.6	4022.2	4451.2	4739.1	4185.0
8.33	7.25	12.25	0.404	4011.9	4357.4	4822.6	5134.7	4118.4
8.62	7.50	12.67	0.417	4337.8	4711.7	5215.2	5552.9	4051.8
8.90	7.75	13.09	0.431	4681.8	5085.6	5629.6	5994.5	3985.2
9.19	8.00	13.51	0.445	5044.3	5479.8	6066.5	6460.0	3918.6

NOTE: Red Indicates Extrapolating Beyond Current Propulsor Capability

**AAV7A1 Thrust Required Curve**

