

## ORBITER MASS PROPERTIES

Miss. Seq. No.	STS- No.	Orb. OV-	Notes	Lift-off Weight, lb			Pre-Deorbit burn Weight, lb			Entry Interface Weight, lb			Mach 3 Weight, lb			Landing Weight, lb			Ferry Weight, lb		
				CG X	Y	Z	CG X	Y	Z	CG X	Y	Z	CG X	Y	Z	CG X	Y	Z	CG X	Y	Z
1	1	102		219,440.7			202,769.9			196,868.7			195,942.7			195,472.7			197,023.0		
				1125.2	0.2	379.7	1108.4	0.1	376.1	1099	0.2	373.1	1096.7	0.2	372.4	1098.1	0.2	369.6	1120.7	0.3	371
2	2	102		230,938.9			215,530.2			206,842.5			204,355.5			204,262.5			206,455.0		
				1120.6	0.1	379.8	1106.1	0.3	377.1	1100.5	0.2	373.8	1096.6	0.2	372.3	1098.1	0.2	369.7	1116	0.1	372.7
3	3	102		235,556.1			214,949.6			208,790.2			207,349.2			207,072.9			211,200.0		
				1119.2	-0.5	379.4	1106.3	-0.5	376.1	1097.9	-0.5	373.3	1095.4	-0.5	372.4	1096.9	-0.5	369.8	1117.8	-0.4	373.5
4	4	102		241,772.0			218,163.6			211,184.0			209,140.5			208,946.8			214,526.0		
				1122.2	-0.3	381.8	1106.6	-0.5	377.7	1096.2	-0.5	374.5	1092.9	-0.5	373.3	1094.4	-0.5	370.7	1114.5	-0.4	375
5	5	102		247,112.9			209,890.1			203,775.9			202,642.7			202,480.3			205,727.0		
				1116.3	1.1	379.7	1105	1	374.5	1096.6	1	371.6	1094.8	1	371	1096.3	1	368.3	1118.4	1	371.9
6	6	099		256,928.1			197,427.8			191,384.2			190,627.2			190,330.2			191,966.0		
				1127.8	0.5	382.9	1111.2	0.3	374.6	1101.2	0.3	371.5	1099.7	0.4	370.9	1101.2	0.4	368	1131.4	0.4	371.9
7	7	099		249,362.7			211,737.0			204,983.4			204,340.4			204,043.4			204,576.0		
				1123.6	-0.2	381.2	1102	-0.6	376.5	1091.3	-0.6	373.3	1089.8	-0.6	372.8	1091.2	-0.6	370.1	1119.6	-0.6	373.6
8	8	099		242,912.3			212,911.0			205,243.4			204,141.4			203,945.4			205,874.0		
				1124.5	0.2	382	1098.2	-0.1	376.7	1092.5	-0.1	373.8	1090.4	-0.1	373	1091.9	-0.1	370.4	1119.4	-0.2	374.3
9	9	102		247,807.3			227,648.0			221,143.4			220,288.4			220,027.4			219,910.0		
				1109.7	-0.1	379	1097	0	376.6	1087.3	-0.1	373.7	1085.8	-0.1	373.2	1087.1	-0.1	370.7	1113.4	0	374.1
10	10	099	a	250,482.7			209,746.1			202,966.5			201,528.5			201,238.5					
				1124.5	0.2	381.5	1101.4	1.2	375.8	1090.7	1.3	372.6	1087.9	1.3	371.6	1089.3	1.3	368.8			
11	41C	099					208,206.4			198,072.8			197,169.8			196,975.8			198,830.0		
				1113.4	0.2	383.4	1117.4	-0.1	376.5	1101.8	-0.1	371.6	1100	-0.1	371	1101.6	-0.1	368.2	1130.9	-0.1	372.4
12	41D	103		263,477.4			211,075.1			203,382.5			202,316.5			201,674.5			202,366.0		
				1118	0	382.8	1100	-0.1	376.6	1093.4	-0.2	373.5	1090.7	-0.1	372.6	1091.7	-0.2	369.6	1121.8	-0.2	373.8

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				CG X	Y	Z	CG X	Y	Z	CG X	Y	Z	CG X	Y	Z	CG X	Y	Z	CG X	Y	Z
13	41G	099	a	242,790.8			209,799.7			203,651.1			202,829.1			202,266.1					
				1119	-0.1	381.7	1093.5	-0.2	374.6	1085.4	-0.2	371.9	1083.7	-0.2	371.3	1084.8	-0.1	368.4			
14	51A	103	a	263,324.6			215,715.3			209,163.7			207,982.7			207,505.7					
				1120.9	-0.1	382.6	1090.2	-0.2	375.2	1083.4	-0.2	372.5	1081.4	-0.2	371.8	1082.6	-0.1	369.1			
15	51C	103	a,b																		
16	51D	103	a	250,891.6			209,102.8			199,742.2			198,167.2			198,014.2					
				1126.5	-0.1	381.7	1110.6	-0.2	377	1095.8	-0.1	372.5	1092.7	-0.1	371.3	1094.3	-0.1	368.6			
17	51B	099		247,291.3			226,859.0			214,787.4			213,795.4			213,499.4			213,363.0		
				1114.2	-0.2	381.4	1096.7	-0.3	378	1085.7	-0.3	373.4	1084.1	-0.3	372.8	1085.4	-0.3	370.3	1114.8	-0.2	373.8
18	51G	103		256,421.9			213,105.0			205,624.4			204,321.4			204,169.4			204,387.0		
				1109.6	0.2	379.6	1091.5	-0.2	375.2	1084.3	0	372.2	1082.1	0	371.4	1083.7	0	368.8	1114.2	0	372.9
19	51F	099		252,628.9			225,398.0			218,227.4			216,894.4			216,735.4			217,564.7		
				1111.6	-0.4	381.8	1091.1	-0.5	376.3	1082.3	-0.6	373.4	1079.8	-0.6	372.5	1081.3	-0.6	370	1109.5	-0.5	373.9
20	51I	103		262,309.7			207,794.8			197,824.4			196,856.4			196,674.4			197,259.3		
				1121.3	0.5	382.5	1110	0.2	376.7	1094.4	0.2	371.9	1092.4	0.3	371.3	1094.2	0.3	368.5	1124.9	0.3	372.7
21	51J	104	b																191,623.0		
22	61A	099		243,762.5			223,317.8			215,255.4			214,325.4			214,171.4			214,138.3		
				1109	-0.1	380.4	1091.8	-0.4	377.1	1085.5	-0.4	374.2	1083.8	-0.4	373.6	1085.2	-0.4	371.1	1116.4	-0.3	374.5
23	61B	104		261,610.1			213,335.8			206,187.4			205,880.4			205,732.4			205,682.3		
				1110.3	0	379.3	1096.9	-0.1	375.3	1085.8	-0.2	372	1084.4	-0.1	371.5	1085.9	-0.1	368.9	1118	-0.1	373.2
24	61C	102		256,003.0			221,485.8			211,194.4			210,325.4			210,161.4			210,430.0		
				1110.3	0.4	380.3	1096.1	0.4	375.7	1085.2	0.4	371.4	1083.6	0.4	370.9	1085.1	0.4	368.3	1114.9	0.5	373.2

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				CG X	Y	Z	CG X	Y	Z	CG X	Y	Z	CG X	Y	Z	CG X	Y	Z	CG X	Y	Z
25	51L	099	c	268,829.6																	
				1119.1	-0.2	384															
26	26	103		254,606.5			202,676.3			194,985.3			194,347.3			194,184.3			193,936.0		
				1118.4	0.3	380.6	1104.7	0.1	374.6	1097.9	0.2	371.4	1096.6	0.2	371	1098.3	0.2	368.2	1131.8	-0.1	372
27	27	104	b				200,752.5			192,095.3			191,105.3			190,956.3			191,337.7		
							1107.9	-0.9	374.6	1095.2	-0.9	370.3	1093.4	-0.9	369.7	1095.1	-0.9	366.8	1127.1	-0.9	370.8
28	29	103		256,357.6			202,517.6			195,531.6			194,939.6			194,789.6			194,710.0		
				1116.4	0.6	380.8	1104.1	0.5	374.6	1095.1	0.5	371.4	1093.7	0.5	370.9	1095.3	0.5	368.1	1128.6	0.3	372
29	30	104		261,118.9			201,074.6			193,349.6			192,557.6			192,459.6			193,031.0		
				1123.4	0.5	382.6	1106.8	0.4	374.5	1098.7	0.4	371.1	1097.3	0.4	370.6	1099.1	0.4	367.8	1130.7	0.2	371.7
30	28	102	b				207,482.2			201,294.2			200,331.2			200,214.2			200,509.7		
							1096.7	-0.1	373.1	1089.7	-0.1	370.4	1087.8	-0.1	369.7	1089.4	-0.1	367	1120.5	-0.2	370.8
31	34	104		257,569.2			204,439.2			196,784.2			196,112.2			195,954.2			195,804.0		
				1114.2	0.4	380.8	1101.8	0.2	375	1094.5	0.3	371.7	1093.1	0.2	371.2	1094.7	0.3	368.5	1128.2	0.1	372.3
32	33	103	b				203,006.2			195,185.2			194,463.2			194,282.2			195,242.7		
							1106.2	0	375.1	1094.1	0.1	371.1	1093.2	0.1	370.8	1094.8	0.1	368	1124.7	0.1	371.8
33	32	102		255,994.0			241,970.2			229,892.2			228,523.2			228,335.2			227,868.7		
				1131.3	-0.9	381.4	1096.3	-0.9	378.6	1080.8	-0.9	373.8	1078.2	-0.9	372.9	1079.6	-0.9	370.5	1108.8	-0.8	373.8
34	36	104	b				193,208.2			188,059.2			187,316.2			187,200.2			187,944.7		
							1105.2	0.1	373.1	1096.2	0.2	370.4	1094.7	0.2	369.8	1096.4	0.2	366.9	1128.9	0.1	370.8
35	31	103		249,109.2			202,753.2			190,566.2			189,309.2			189,118.2			189,691.7		
				1114.8	-0.5	384.2	1107.2	-1	376.4	1090	-1	370.5	1087.9	-1	369.7	1089.7	-1	366.6	1125.1	-1	370.3
36	41	103		259,593.9			204,007.2			197,986.2			196,982.2			196,869.2			197,369.7		
				1115.2	-0.1	381.4	1100.4	-0.5	374.7	1090.4	-0.5	371.8	1089.4	-0.4	371.2	1091.2	-0.4	368.3	1124.4	-0.5	372

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				CG X	Y	Z	CG X	Y	Z	CG X	Y	Z	CG X	Y	Z	CG X	Y	Z	CG X	Y	Z
37	38	104	a				196,781.2			191,862.2			191,409.2			191,091.2					
							1106.3	0.2	372.8	1098.1	0.2	370.3	1096.2	0.2	369.9	1098.6	0.2	366.7			
38	35	102		256,385.6			236,566.2			226,613.2			225,531.2			225,329.2			223,330.7		
				1106.4	-0.5	378.1	1092.5	-0.5	375.4	1080.8	-0.5	371.4	1079.1	-0.5	370.8	1080.5	-0.4	368.4	1114.7	-0.3	371.6
39	37	104		255,824.0			201,055.2			191,569.2			190,266.2			190,098.2			190,023.7		
				1116.5	-0.3	381.7	1103	-0.6	375.4	1089.6	-0.6	370.9	1087.4	-0.6	370	1089.2	-0.6	367	1124.2	-0.6	370.6
40	39	103	a	247,373.4			218,919.2			212,806.2			211,673.2			211,512.2					
				1111.1	0	382.5	1091	-0.4	376.8	1082.2	-0.3	374.1	1080.3	-0.4	373.5	1082	-0.4	370.8			
41	40	102		251,970.3			235,196.2			227,709.2			226,737.2			226,535.2			225,326.7		
				1100.2	-0.1	376.4	1089.5	-0.2	374.9	1081.1	-0.2	371.9	1079.6	-0.2	371.4	1080.9	-0.2	369	1112.9	-0.1	372.2
42	43	104	a	259,374.7			203,898.2			197,472.2			196,353.2			196,088.5					
				1113.9	-0.2	380.4	1099.5	-0.3	374.2	1088.8	-0.3	371	1087.4	-0.3	370.3	1089.7	-0.3	367.3			
43	48	103		240,062.6			204,685.2			193,665.2			192,925.2			192,780.2			193,583.7		
				1125.5	-0.9	381.9	1113.1	-0.9	375.9	1097.4	-1	370.6	1096	-1	370	1097.8	-0.9	367	1130.2	-0.9	371.3
44	44	104		259,904.0			204,165.2			196,229.2			195,047.2			194,818.2			194,087.1		
				1116.2	0	381	1102.6	-0.2	374.4	1092.4	-0.2	370.7	1090.8	-0.2	370	1092.5	-0.2	367	1128.6	-0.1	371.1
45	42	103		243,494.1			227,227.2			219,459.2			218,159.2			218,089.2			216,224.7		
				1104.8	-0.1	378.3	1091.4	-0.3	376.6	1082.3	-0.3	373.4	1080.6	-0.3	372.8	1082.2	-0.3	370.1	1115.6	-0.2	373.1
46	45	104	a	233,652.0			215,275.2			206,495.2			205,672.3			205,588.2					
				1113.1	-0.3	377.6	1100.3	-0.5	375.2	1086.3	-0.5	371	1085.4	-0.4	370.5	1087.2	-0.4	367.7			
47	49	105		256,392.3			209,002.2			202,094.2			201,400.2			201,235.2			199,831.2		
				1119.5	-0.3	383.9	1096.7	-0.6	375	1085.8	-0.7	371.7	1084.4	-0.6	371.2	1086.2	-0.6	368.3	1122.7	-0.5	371.9
48	50	102	a	257,338.6			236,634.2			227,587.2			225,865.2			225,615.2					
				1106	-0.5	378.8	1089.7	-0.6	375.9	1079.8	-0.7	372.4	1107.7	-0.7	371.6	1079.1	-0.7	369			

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				CG X	Y	Z	CG X	Y	Z	CG X	Y	Z	CG X	Y	Z	CG X	Y	Z	CG X	Y	Z
49	46	104	a	256,026.3			216,581.2			210,995.2			209,851.2								
				1113.8	-0.3	382.4	1087.1	-0.5	374.8	1080.2	-0.5	372.4	1078.2	-0.5	371.7	1079.6	-0.5	368.9			
50	47	105	a	244,645.2			228,709.2			221,374.2			220,325.2			220,195.2					
				1103.9	-0.4	379.1	1091.1	-0.5	377.5	1085.4	-0.5	374.9	1083.7	-0.5	374.3	1085.3	-0.5	371.7			
51	52	102	a	250,399.4			223,297.2			217,359.2						215,979.2					
				1109.5	-0.3	377.5	1090.3	-0.4	373.5	1084.5	-0.4	371.1	1082.6	-0.4	370.4	1084.3	-0.3	367.7			
52	53	103		243,944.4			201,376.2			194,826.2			194,028.2			193,851.2			193,848.3		
				1112.3	0.1	380.7	1100.2	0	373.9	1090.4	0.1	370.5	1089.5	0	370.2	1091.3	0.1	367.1	1125.3	0.2	370.8
53	54	105	a	259,764.2			205,293.6			198,296.6			197,481.2			197,353.2					
				1115.7	0.3	381.2	1101.4	0.2	375	1093.5	0.2	371.9	1091.6	0.2	371.3	1093.4	0.2	368.4			
54	56	103	a	237,213.0			217,922.2			209,229.2			208,052.2			207,946.2					
				1109.5	-0.3	379.3	1098.3	-0.5	376.9	1086.3	-0.5	373.4	1084.6	-0.4	372.5	1086.3	-0.4	369.7			
55	55	105		255,441.8			236,094.2			228,546.6			227,484.2			227,209.2			226,360.2		
				1101.6	-0.6	377.5	1089	-0.6	375.4	1080.1	-0.6	372.4	1078.4	-0.6	371.9	1079.7	-0.6	369.2	1111.8	-0.5	372.3
56	57	105	a,d	252,710.1						226,573.5			225,019.5			224,906.5					
				1112.6	-0.1	382.9				1083	-0.2	375.2	1080.9	-0.2	374.6	1082.5	-0.2	372			
57	51	103	a,d	261,486.6						208,048.5			207,042.5			206,931.5					
				1116.5	-0.6	381.5				1086.6	-0.8	373.5	1084.7	-0.7	373.1	1086.5	-0.7	370.3			
58	58	102	d	256,097.0						230,447.7			229,480.7			229,368.7			229,953.7		
				1103.4	-0.4	378				1080	-0.5	373	1078.8	-0.5	372.7	1080.4	-0.5	370.2	1107.9	-0.6	373.7
59	61	105	a,d	250,279.1						213,640.5			212,946.5			212,835.5					
				1113.5	-0.1	381.6				1080.2	0	372.2	1078.8	0.1	371.9	1080.5	0.07	369.2			
60	60	103	a,d	245,767.5						217,583.5			216,662.5			216,594.5					
				1104.8	-0.7	380.2				1081.2	-0.9	374.1	1079.6	-0.9	373.7	1081.3	-0.9	371.1			

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## ORBITER MASS PROPERTIES

Miss. Seq. No.	STS- No.	Orb. OV-	Notes	Lift-off Weight, lb			Pre-Deorbit burn Weight, lb			Entry Interface Weight, lb			Mach 3 Weight, lb			Landing Weight, lb			Ferry Weight, lb		
				CG X	Y	Z	CG X	Y	Z	CG X	Y	Z	CG X	Y	Z	CG X	Y	Z	CG X	Y	Z
61	62	102	a,d	256,584.1						229,091.2			228,360.2			228,250.2					
				1107.4	-0.6	379.2				1084	-0.7	373.5	1182.6	-0.6	373.2	1084.1	-0.6	370.6			
62	59	105	d	246,851.0						222,698.0			221,931.0			221,865.0			222,734.0		
				1095.8	-0.5	378.7				1090.9	-0.4	374.7	1079.6	-0.4	374.5	1081.2	-0.4	371.9	1109.1	-0.6	375.5
63	65	102	a	258,585.0			237,613.0			230,624.0			229,410.0			229,307.0					
				1104.2	-0.2	378.8	1087.4	-0.6	375.6	1080.7	-0.6	373	1079	-0.6	373	1080.1	-0.6	370			
64	64	103		240,884.0			221,336.0			213,510.0			212,565.0			212,141.0			212,251.0		
				1105.5	-0.5	379.5	1090.1	-0.7	376.8	1083.7	-0.8	373.5	1082	-0.8	373.1	1083.9	-0.7	370.4	1117.1	-0.5	373.8
65	68	105		247,136.0			228,874.0			222,752.0			221,460.0			221,571.0			221,390.0		
				1099.1	-0.5	378.5	1087.8	-0.4	376.8	1080.1	-0.4	374.3	1078.1	-0.4	373.7	1080.3	-0.4	371.4	1112.2	-0.4	374.6
66	66	104		243,089.0			221,520.0			212,378.0			211,434.0			211,327.0			210,966.0		
				1113	-0.1	379.5	1096.8	-0.1	375.9	1085.9	-0.1	371.9	1084.3	-0.1	371.6	1086	-0.1	368.9	1120.1	0	372.4
67	63	103	a	247,555.0			224,130.0			213,717.0			212,772.0			212,646.0					
				1111.1	-0.2	382.2	1095.7	-0.5	378.4	1081.4	-0.6	373.9	1079.7	-0.5	373.5	1079.3	-0.5	373.6			
68	67	105		256,293.0			231,034.0			218,563.0			217,568.0			217,481.0			216,663.0		
				1118	0	381.5	1101.4	0	377.5	1084.1	0	372	1082.5	0	371.6	1083.1	0	371.9	1117.9	0	372.9
69	71	104	a	248,856.8			227,051.7			217,202.0			215,036.6			214,879.4					
				1110.1	-0.3	380.4	1094.1	-0.2	377.1	1081.9	-0.2	372.4	1080.1	0	372.1	1081	-0.2	369.4			
70	70	103	a	258,798.0			205,687.5			197,482.7			196,725.9			196,574.8					
				1120.2	0.1	380.8	1106.6	0.1	375.1	1099	0.1	371.5	1097.6	-0.1	371.2	1099.4	0.1	368.2			
71	69	105	a	256,644.9			229,422.3			220,383.0			219,494.4			219,377.0					
				1112.6	0.2	383.3	1092.9	0.4	378.4	1082.2	0.05	374.7	1080.5	0.4	374.3	1081.3	0.4	371.6			
72	73	102	a	257,017.5			239,035.7			231,578.0			230,621.7			230,469.3					
				1101.3	-0.6	377.2	1089.3	-0.5	375.8	1081.9	-0.5	372.9	1080.5	-0.5	372.6	1082	-0.5	370			

- a = KSC landing
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Source: JSC/VF Orbiter Mass Properties Summary,  
STS-1 and subsequent mission.

## ORBITER MASS PROPERTIES

Miss. Seq. No.	STS- No.	Orb. OV-	Notes	Lift-off Weight, lb			Pre-Deorbit burn Weight, lb			Entry Interface Weight, lb			Mach 3 Weight, lb			Landing Weight, lb			Ferry Weight, lb		
				CG X	Y	Z	CG X	Y	Z	CG X	Y	Z	CG X	Y	Z	CG X	Y	Z	CG X	Y	Z
73	74	104	a	274,560.2			215,856.9			204,058.7			203,101.9			202,950.9					
				1113	0.1	381.7	1113.4	0.7	370.4	1080.8	0.2	371.5	1078.8	0.2	371	1080.5	0.2	368.2			
74	72	105	a	247,320.5			226,239.4			218,151.1			217,394.2			217,243.4					
				1117.6	-0.1	381.7	1090.5	0	376.2	1081.9	0	372.9	1080.6	0	372.6	1082.2	0.1	369.9			
75	75	102	a	261,250.1			240,782.4			229,357.8			228,601.1			228,449.9					
				1106	-0.4	379.9	1092.6	-0.3	377.5	1079.7	-0.3	373	1078.4	-0.3	372.7	1079.9	-0.3	370.2			
76	76	104		246,337.3			220,475.9			211,094.8			210,143.0			209,993.4			210,600.3		
				1109.7	-0.2	379.7	1095.8	0	375.8	1083.4	0	371.6	1081.7	0	371.2	1083.3	0	368.4	1113.5	-0.1	372.4
77	77	105	a	254,890.5			233,219.3			222,936.2			221,979.5			221,828.4					
				1106.4	-0.1	380.4	1094.6	-0.1	377.6	1081.8	-0.1	373.4	1080.3	-0.1	373	1081.8	-0.1	370.4			
78	78	102	a	256,144.6			238,077.2			229,652.9			228,696.3			228,545.4					
				1102.7	-0.4	377.2	1088.9	-0.2	375.6	1081.9	-0.2	372.5	1080.5	-0.2	372.1	1082	-0.2	369.5			
79	79	104	a	249,327.5			225,654.4			216,359.8			215,177.8			215,026.5					
				1109.2	0	379.8	1094.2	0.1	376	1081.2	0.1	371.9	1079.4	0.1	371.4	1081	0.2	368.7			
80	80	102	a	260,935.2			238,607.0			228,516.3			227,534.4			227,383.2					
				1106.5	-0.3	381	1091.2	-0.4	377.7	1080.2	-0.4	373.8	1078.4	-0.4	373.4	1079.9	-0.4	370.9			
81	81	104	a	249,935.7			225,432.8			216,042.8			214,861.6			214,710.6					
				1110.7	0	379.6	1079.1	0.2	376.1	1082.7	0.3	371.8	1080.8	0.3	371.3	1082.5	0.3	368.6			
82	82	103	a	251,238.1			221,530.0			214,393.2			213,636.6			213,485.7					
				1112.8	-0.1	381.2	1087.2	0.1	374.6	1079.2	0.1	371.6	1077.9	0.1	371.3	1079.5	0.1	368.5			
83	83	102	a,d	259,143.6			240,257.2			231,584.3			230,507.6			230,276.3					
				1102.1	-0.3	378.2	1088.5	-0.2	376.8	1081.7	-0.2	373.7	1079.9	-0.2	373.3	1081.3	-0.2	370.5			
84	84	104	a	249,462.2			224,584.2			214,653.8			213,697.9			213,547.2					
				1109.1	0.1	379.7	1094.6	0.3	375.9	1080	0.3	371.4	1078.4	0.3	371	1080	0.4	368.3			

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## ORBITER MASS PROPERTIES

Miss. Seq. No.	STS- No.	Orb. OV-	Notes	Lift-off Weight, lb			Pre-Deorbit burn Weight, lb			Entry Interface Weight, lb			Mach 3 Weight, lb			Landing Weight, lb			Ferry Weight, lb		
				CG X	Y	Z	CG X	Y	Z	CG X	Y	Z	CG X	Y	Z	CG X	Y	Z	CG X	Y	Z
85	94	102	a	260,248.6			240,407.8			231,591.0			230,514.5			230,283.5					
				1102.1	-0.2	378.1	1088.6	-0.2	376.3	1080.2	-0.3	373	1079.6	-0.3	372.6	1080	-0.2	370.1			
86	85	103	a	249,695.6			228,129.5			220,185.2			219,228.6			219,077.0					
				1102.7	0	379.5	1088.5	0.1	376.8	1079.9	0.1	373.6	1078.4	0.1	373.2	1079.9	0.1	370.6			
87	86	104	a	252,035.4			225,501.0			215,616.7			214,660.0			214,509.0					
				1109.8	0.3	379.8	1094.5	0.3	376.1	1080.6	0.3	371.3	1079	0.3	371.3	1080.6	0.3	368.5			
88	87	102	a	260,799.0			241,095.5			231,017.1			230,260.7			230,110.0					
				1104	-0.2	379	1090.6	-0.1	376.9	1079.8	-0.1	373	10786	0.1	372.7	1080.1	0	370.1			
89	89	105	a	252,316.0			226,971.4			217,909.0			216,953.0			216,802.0					
				1108.1	0.1	380	1093.5	0.2	376.1	1081.3	0.2	372.2	1079.8	0.2	371.8	1081.4	0.2	369.1			
90	90	102	a	262,357.0			239,492.6			232,451.9			231,493.0			231,342.5					
				1103.7	-0.5	377.9	1086.3	-0.5	374.8	1080.1	-0.5	372.2	1078.7	-0.5	371.8	1080.2	-0.5	369.3			
91	91	103	a	259,653.0			236,965.9			227,125.0			226,168.8			226,017.0					
				1107.4	-0.2	380.5	1094.2	-0.2	377.6	1081.7	-0.2	373.5	1080.1	-0.2	373.1	1081.6	-0.2	370.6			

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