

## APPENDIX C. TAKEOFF CHARACTERISTICS - BBJ, MD-80, AND B-737

The following tables provide the maximum takeoff weight for the Boeing Business Jet (BBJ), MD-80 family, and Boeing 737 family of aircraft at various density altitudes at 7,500 and 8,000 feet runway length.

Table C-1. Maximum Takeoff Weight – Boeing Business Jet Family

Aircraft/Max TOW*/Engines	Runway Length	Takeoff Weight (lb.) at Density Altitude			
		Sea Level	710 Feet	2,000 Feet	3,000 Feet
BBJ (B737-700)					
171,000 LBS	7,500	171,000	167,000	163,000	158,000
CFM56-7B27 24K	8,000	171,000	171,000	169,000	165,000
BBJ (B737-700)					
171,000 LBS	7,500	171,000	169,000	159,000	154,000
CFM56-7B27 24K	8,000	171,000	171,000	165,000	160,000
WET RUNWAY					
BBJ (B737-700)					
171,000 LBS	7,500	171,000	171,000	169,000	165,000
CFM56-7B27 26K	8,000	171,000	171,000	171,000	168,000
BBJ (B737-700)					
171,000 LBS	7,500	171,000	171,000	168,000	162,000
CFM56-7B27 26K	8,000	171,000	171,000	170,000	167,000
WET RUNWAY					
BBJ2 (B737-800)					
174,200 LBS	7,500	174,000	174,000	168,000	163,000
CFM56-7B27 27K	8,000	174,000	174,000	172,000	167,000
BBJ2 (B737-800)					
174,200 LBS	7,500	174,000	171,000	166,000	160,000
CFM56-7B27 27K	8,000	174,000	174,000	169,000	164,000
WET RUNWAY					

\*TOW – Take Off Weight

Table C-2. Maximum Takeoff Weight – MD-80 Family

Aircraft/MAX TOW*/Engines	Runway Length	Takeoff Weight (lb.) at Density Altitude			
		Sea Level	710 Feet	2,000 Feet	3,000 Feet
MD-81					
140,000 LBS	7,500	140,000	140,000	136,000	132,000
JT8D-209	8,000	140,000	140,000	138,000	136,000
MD-82					
149,500 LBS	7,500	149,000	147,000	142,000	138,000
JT8D-217	8,000	149,000	149,000	146,000	143,000
MD-82, 88					
149,500 LBS	7,500	149,000	148,000	143,000	140,000
JT8D-217A	8,000	149,000	149,000	147,000	143,000
MD-83					
160,000 LBS	7,500	157,000	153,000	148,000	145,000
JT8D-219	8,000	160,000	158,000	152,000	148,000
MD-87					
149,500 LBS	7,500	149,000	147,000	143,000	138,000
JT8D-217C	8,000	149,000	149,000	146,000	143,000

\*TOW – Take Off Weight

Table C-3. Maximum Takeoff Weight – Boeing 737 Family

Aircraft/Max TOW*/Engines	Runway Length	Takeoff Weight (lb.) at Density Altitude			
		Sea Level	710 Feet	2,000 Feet	3,000 Feet
B737-300					
138,500 LBS	7,500	132,000	130,500	128,000	127,000
CFM56-3B-1 20K	8,000	134,000	133,000	130,000	129,000
B737-300					
139,500 LBS	7,500	139,500	139,500	135,000	132,000
CFM56-3B-2 22K	8,000	139,500	139,500	139,500	135,000
B737-400					
150,000 LBS	7,500	140,000	137,000	134,000	131,000
CFM56-3B-2 22K	8,000	144,000	142,000	138,000	135,000
B737-400					
150,000 LBS	7,500	144,000	142,000	138,000	134,000
CFM56-3C-1 23.5K	8,000	147,500	145,000	141,000	138,000
B737-500					
133,500 LBS	7,500	131,500	130,000	127,500	126,000
CFM56-3B-1 20K	8,000	133,000	132,000	129,000	128,000
B737-500					
133,500 LBS	7,500	124,500	123,500	121,500	118,000
CFM56-3B-1 18K	8,000	127,000	125,000	122,500	121,000

\*TOW – Take Off Weight