



DCS: F-16C Viper

Sustained turn rate test

GE-129 / 22k lbs GW / DI=0 / Max AB / Standard Day

Eagle Dynamics SA



500 feet MSL

Sustained Turn Rate

- Reference - 0.70 Mach at 9G = 21.7 D/Sec
 - Game - 0.7 Mach at 9G = 21.2 D/Sec
- Reference - 0.50 Mach at 6G = 20.4 D/Sec
 - Game - 0.5 Mach at 5.9G = 20.6 D/Sec
- Reference - 0.36 Mach at 4G = 18.9 D/Sec
 - Game - 0.36 Mach at 3.8G = 18.0 D/Sec

5,000 feet MSL

Sustained Turn Rate

- Reference - 0.79 Mach at 9G = 19.5 D/Sec
 - Game - 0.79 Mach at 8.9G = 19.1 D/Sec
- Reference - 0.60 Mach at 6.3G = 18.2 D/Sec
 - Game - 0.60 Mach at 6.5G = 19.0 D/Sec
- Reference - 0.45 Mach at 4.3G = 16.8 D/Sec
 - Game - 0.45 Mach at 4.4G = 16.9 D/Sec

10,000 feet MSL

Sustained Turn Rate

- Reference - 1.0 Mach at 8.5G = 14.5 D/Sec
 - Game - 1.00 Mach at 8.8G = 14.7 D/Sec
- Reference - 0.90 Mach at 8.9G = 17.3 D/Sec
 - Game - .90 Mach at 8.6G = 16.9 D/Sec
- Reference - 0.45 Mach at 3.6G = 14.1 D/Sec
 - Game - 0.45 Mach at 3.7G = 13.9R D/Sec



15,000 feet MSL

Sustained Turn Rate

- Reference - 0.88 Mach at 7.4G = 14.8 D/Sec
 - Game - 0.88 Mach at 7.5G = 15.1 D/Sec
- Reference - 0.66 Mach at 5G = 13.4 D/Sec
 - Game - 0.66 Mach at 5.2G = 14.4 D/Sec
- Reference - 0.50 Mach at 3.4G = 12 D/Sec
 - Game - 0.50 Mach at 3.4G = 11.7 D/Sec

20,000 feet MSL

Sustained Turn Rate

- Reference - 1.10 Mach at 6.1G = 9.9 D/Sec
 - Game - 1.10 Mach at 5.8G = 9.2 D/Sec
- Reference - 0.89 Mach at 6.2 = 12.5 D/Sec
 - Game - 0.89 Mach at 6.0G = 12.1 D/Sec
- Reference - 0.70 Mach at 4.4 = 11.6 D/Sec
 - Game - 0.70 Mach at 4.3G = 11.2D/Sec

25,000 feet MSL

Sustained Turn Rate

- Reference - 1.10 Mach at 5.2G = 8.5 D/Sec
 - Game - 1.10 Mach at 5.3G = 8.3 D/Sec
- Reference - 0.90 Mach at 5.1G = 10.2 D/Sec
 - Game - 0.90 Mach at 4.9G = 9.8 D/Sec
- Reference - 0.60 Mach at 2.8G = 8.4 D/Sec
 - Game - 0.60 Mach at 2.7G = 7.8 D/Sec



30,000 feet MSL

Sustained Turn Rate

- Reference - 1.10 Mach at 4.3G = 7 D/Sec
 - Game – 1.10 Mach at 4.4G = 7.2 D/Sec
- Reference - 0.90 Mach at 4.1G = 8.3 D/Sec
 - Game – 0.90 Mach at 3.9G = 7.8 D/Sec
- Reference - 0.70 Mach at 2.8G = 7.2 D/Sec
 - Game – 0.70 Mach at 2.9G = 7.3 D/Sec

35,000 feet MSL

Sustained Turn Rate

- Reference - 1.10 Mach at 3.4G = 5.6 D/Sec
 - Game – 1.10 Mach at 3.5G = 5.5 D/Sec
- Reference - 0.90 Mach at 3.3G = 6.5 D/Sec
 - Game – 0.90 Mach at 3.1G = 6.3 D/Sec
- Reference - 0.70 Mach at 2.3G = 5.7 D/Sec
 - Game – 0.70 Mach at 2.1G = 5.4 D/Sec

Eagle Dynamics Team