

The Synodic Cycle of Mercury

Mercury's synodic cycle averages 116 days. (conjunction to conjunction etc.) Although it can vary from 112 days to 130 days. Other than Pluto, Mercury's orbit has the greatest eccentricity of any planet, with irregular rhythms more akin to Mars, not at all like Venus, (which has the most elegant and nearly circular orbit with very regular rhythms).

Time Frame	Days	Days different from Synodic Cycle
One year 3 Synodic Cycles 4 Sidereal	365. 24 Days 347.63 Days 351. 87	-17.61 +4.24
7 years 22 Synodic 29 Sidereal	2,556.70 2,549.30 2,551.10	-7.39 +1.80
13 years 41 Synodic 54 Sidereal	4,748.15 4,750.97 4,750.33	+2.82 -0.65
46 years 145 Synodic 191 Sidereal	16,801.14 16,802.22 16,802.08	+1.08 -0.14
79 years 249 Synodic 328 Sidereal	28,854.13 28,853.47 28,854.83	-0.66 +0.36