

SUMMARY OF AIRCRAFT FIELD LENGTH REQUIREMENTS AT GOLDEN AIRPORT (CYGE) - RUNWAY LENGTH 4,500 FEET; ELEVATION 2,575 FEET

AIRCRAFT	CODE	SEATS (Crew+Psgr)	MAX TAKEOFF WEIGHT (lbs)	ALR	data	REFERENCE FIELD LENGTH ft, ISA, SEA LEVEL, MTOW	ADJUSTED FIELD LENGTH ft, CYGE, 24.4°C, MTOW	ADJUSTED FIELD LENGTH ft, CYGE, 30°C, MTOW	AIRCRAFT TYPE	COMMENTS
Field Length ≤ 3,000 ft (915 m)										
BN Islander	A	2+8	6,600	1.0	1160	1,200	1,600	1,700	Single Engine Piston	These aircraft can operate at Golden Airport without weight restriction.
Cessna Skylane CE-182 S	A	1+3	3,100	1.0	1365	1,400	1,900	2,000	Single Engine Piston	
DHC-3 Otter	B	1/2+9	8,000	1.0	1630	1,700	2,200	2,300	Single Engine Piston	
Cessna 310	A	1+5	5,620	1.0	1700	1,700	2,300	2,400	Single Engine Piston	
Cessna Turbo Stationair	A	1+5	3,600	1.0	1703	1,700	2,300	2,400	Single Engine Piston	
New Piper Seneca V (PA-34-220T)	A	1+4/5	4,750	1.0	1701	1,700	2,300	2,400	Multi Engine Piston	
New Piper Saratoga PA-32R-301	A	1+4/5	3,600	1.0	1759	1,800	2,400	2,500	Single Engine Piston	
Cessna Stationair CE-206 H	A	1+5	3,600	1.0	1863	1,900	2,600	2,700	Single Engine Piston	
Raytheon Bonanza A36	A	1+4/5	3,650	1.0	1913	1,900	2,600	2,700	Single Engine Piston	
Extra EA 400	A	1+5	4,409	1.0	1890	1,900	2,600	2,700	Single Engine Piston	
Commander 114 B	A	1+3/4	3,250	1.0	1985	2,000	2,700	2,800	Single Engine Piston	
Cessna Caravan I	B	1+9	8,000	1.0	2055	2,100	2,800	2,900	Single Engine Turboprop	
Mooney Bravo MO-20M	A	1+3	3,368	1.0	2100	2,100	2,900	3,000	Single Engine Piston	
Raytheon Bonanza B36-TC	A	1+4/5	3,850	1.0	2130	2,200	2,900	3,000	Single Engine Piston	
Commander 114 TC	A	1+3/4	3,305	1.0	2223	2,200	3,000	3,200	Single Engine Piston	
Field Length > 3,000 ft (915 m) and < 4,500 ft (1,373 m)										
Mooney Eagle M 20 S	A	1+3	3,200	1.0	2300	2,300	3,100	3,300	Single Engine Piston	These aircraft can operate at Golden Airport without weight restriction under most conditions. Weight restriction required for aircraft shaded in light blue, i.e. in hot summer days, performance evaluation required by aircraft operators.
DHC-6 Twin Otter	B	2+20	12,500	2.0	2280	2,300	3,100	3,300	Multi Engine Piston	
Raytheon Baron 58	A	1+4/5	5,500	1.0	2300	2,300	3,100	3,300	Multi Engine Piston	
Pilatus PC -12	B	1+7/10	9,920	1.0	2300	2,300	3,100	3,300	Single Engine Turboprop	
Cessna Grand Caravan	B	1+9	8,750	1.0	2420	2,400	3,300	3,500	Single Engine Turboprop	
Raytheon King Air C90 SE	B	1+5/12	10,100	1.0	2577	2,600	3,500	3,700	Multi Engine Turboprop	
Raytheon King Air B200 SE	B	1+7/15	12,500	2.4 / 1.0	2579	2,600	3,500	3,700	Multi Engine Turboprop	
Raytheon King Air B200	B	1+7/15	12,500	2.4 / 1.0	2579	2,600	3,500	3,700	Multi Engine Turboprop	
Raytheon King Air C90 B	B	1+5/12	10,100	1.0	2710	2,700	3,700	3,900	Multi Engine Turboprop	
Bombardier CL 215 Water Bomber	C	2+8/9	43,500	5.7 / 4.3	2670	2,700	3,700	3,800	Multi Engine Turboprop	
Dash 8 - 100	C	2+37/40	34,400	4.8 / 3.6	3100	3,100	4,200	4,400	Multi Engine Turboprop	
Raytheon Premier I	A	1+6/7	12,500	2.5 / 1.0	3136	3,200	4,300	4,500	Jet < 20,000 lbs	
Raytheon King Air 350	B	1+9/15	15,000	2.7 / 1.0	3300	3,300	4,500	4,700	Multi Engine Turboprop	
Cessna CJ1 CE-525	A	1+6/7	10,600	2.5 / 1.0	3280	3,300	4,500	4,700	Jet < 20,000 lbs	
Learjet 31A	A	2+7/10	16,500	3.4 / 2.1	3276	3,300	4,500	4,700	Jet < 20,000 lbs	
Dash 8 - 200	C	2+37/40	36,200	4.8 / 3.6	3255	3,300	4,400	4,600	Multi Engine Turboprop	
Dash 8 - Q200	C	3+37/39	36,300	4.7 / 3.5	3280	3,300	4,500	4,700	Multi Engine Turboprop	
Field Length > 4,500 ft (1,373 m)										
Cessna CJ2 CE-525 A	B	1+7/8	12,300	2.5 / 1.0	3450	3,500	4,700	4,900	Jet < 20,000 lbs	The aircraft in area shaded in light blue can operate at Golden Airport if weight restricted. See Note (5).
ATR 42	C	2+48	36,817	4.9 / 3.5	3410	3,400	4,700	4,900	Multi Engine Turboprop	
Cessna Citation Encore CE-560	B	2+7/11	16,630	3.3 / 2.8	3560	3,600	4,900	5,100	Jet < 20,000 lbs	
Dornier 328 - 120	B	2+19/32	30,843	4.3 / 3.2	3570	3,600	4,900	5,100	Multi Engine Turboprop	
Cessna Bravo CE-550	B	2+7/11	14,800	3.1 / 2.2	3600	3,600	4,900	5,100	Jet < 20,000 lbs	
Cessna Citation Excel CE-560-XL	B	2+7/11	20,000	5.6 / 4.8	3590	3,600	4,900	5,100	Jet > 20,000 lbs	
Dash 8 - 300	C	2+50	43,000	4.9 / 3.5	3600	3,600	4,900	5,100	Multi Engine Turboprop	
Raytheon Executive 1900	B	2+12/19	16,950	2.9 / 1.0	3737	3,800	5,100	5,300	Multi Engine Turboprop	
Dash 8 - Q300	C	3+50/56	43,000	4.8 / 3.3	3865	3,900	5,300	5,500	Multi Engine Turboprop	
Dornier 328 Jet Shuttle	B	2+20/32	33,510	5.3 / 3.8	4250	4,300	5,800	6,100	Jet > 20,000 lbs	
Dassault Falcon 50EX	B	2+9/19	39,700	5.4 / 3.6	4602	4,600	6,300	6,600	Jet > 20,000 lbs	

- Notes:
- (1) Reference Field Lengths are obtained from various sources including: Business Airplanes, May 1999, McGraw-Hill; ICAO Aerodrome Design Manual Doc 9157; Aircraft manufacturers' published data.
 - (2) Field lengths shown on this table are calculated based on Maximum TakeOff Weight (MTOW) of the aircraft.
 - (3) 24.4 °C represents the Aerodrome Reference Temperature, data from Environment Canada for Golden Airport, BC; 30°C represents a typical summer hot day.
 - (4) ICAO method is used to adjust the runway length for elevation, temperature, and slope. Lengths of 30 feet or over are rounded to the next 100-foot interval.
 - (5) Restricted TakeOff Weight (TOW) shall be determined according to Airport Planning Manual (APM) of the aircraft. Performance evaluations required by aircraft operators.
 - (6) Assumed flat runway in this calculation, i.e. runway slope = 0.