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RVR and Visibility Conversion Chart

Runway visual range in feet and metres, the 14 CFR 91.175 RVR-to-visibility table, and statute miles to metres

For: Pilots, flight students, dispatchers and flight instructors

allunitconversions.com/rvr-visibility-chart
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KEY RELATIONSHIP	FORMULA	REVERSE	WORKED EXAMPLE
1 ft = 0.3048 m; 1 statute mile = 5,280 ft = 1,609.344 m (exact)	metres = feet × 0.3048; statute miles = feet ÷ 5,280	feet = metres ÷ 0.3048	RVR 2,400 ft = 731.5 m; the 91.175(h) table equates it to 1/2 SM visibility

Metres to the nearest metre, miles to 2 decimals. The regulatory table is not a unit conversion: use it only as 91.175(h) allows.

RVR to ground visibility, 14 CFR 91.175(h)(2)

Use when RVR is not reported for the runway of intended operation. The distance columns show how the regulatory values compare with a straight conversion.

RVR (feet)	Visibility (statute miles)	RVR in metres	RVR as a distance (SM)
1,600	1/4	488	0.30
2,400	1/2	732	0.45
3,200	5/8	975	0.61
4,000	3/4	1,219	0.76
4,500	7/8	1,372	0.85
5,000	1	1,524	0.95
6,000	1 1/4	1,829	1.14

RVR in feet to metres and statute miles

RVR (ft)	Metres	Statute miles	Nautical miles
300	91	0.06	0.05
400	122	0.08	0.07
500	152	0.09	0.08
600	183	0.11	0.10
700	213	0.13	0.12
800	244	0.15	0.13
1,000	305	0.19	0.16
1,200	366	0.23	0.20
1,400	427	0.27	0.23
1,600	488	0.30	0.26
1,800	549	0.34	0.30
2,000	610	0.38	0.33

RVR (ft)	Metres	Statute miles	Nautical miles
2,200	671	0.42	0.36
2,400	732	0.45	0.39
2,600	792	0.49	0.43
2,800	853	0.53	0.46
3,000	914	0.57	0.49
3,500	1,067	0.66	0.58
4,000	1,219	0.76	0.66
4,500	1,372	0.85	0.74
5,000	1,524	0.95	0.82
5,500	1,676	1.04	0.91
6,000	1,829	1.14	0.99
6,500	1,981	1.23	1.07

RVR or visibility in metres to feet and statute miles

Metres	Feet	Statute miles	Nautical miles
50	164	0.03	0.03
75	246	0.05	0.04
100	328	0.06	0.05
125	410	0.08	0.07
150	492	0.09	0.08
175	574	0.11	0.09
200	656	0.12	0.11
225	738	0.14	0.12
250	820	0.16	0.13
275	902	0.17	0.15
300	984	0.19	0.16
325	1,066	0.20	0.18

Metres	Feet	Statute miles	Nautical miles
700	2,297	0.43	0.38
750	2,461	0.47	0.40
800	2,625	0.50	0.43
900	2,953	0.56	0.49
1,000	3,281	0.62	0.54
1,100	3,609	0.68	0.59
1,200	3,937	0.75	0.65
1,300	4,265	0.81	0.70
1,400	4,593	0.87	0.76
1,500	4,921	0.93	0.81
1,600	5,249	0.99	0.86
1,700	5,577	1.06	0.92

Metres	Feet	Statute miles	Nautical miles
350	1,148	0.22	0.19
375	1,230	0.23	0.20
400	1,312	0.25	0.22
450	1,476	0.28	0.24
500	1,640	0.31	0.27
550	1,804	0.34	0.30
600	1,969	0.37	0.32
650	2,133	0.40	0.35

Metres	Feet	Statute miles	Nautical miles
1,800	5,906	1.12	0.97
1,900	6,234	1.18	1.03
2,000	6,562	1.24	1.08
3,000	9,843	1.86	1.62
5,000	16,404	3.11	2.70
8,000	26,247	4.97	4.32
9,999	32,805	6.21	5.40

Visibility in statute miles to metres and kilometres

Statute miles	Metres	Kilometres	Feet
1/16	101	0.10	330
1/8	201	0.20	660
3/16	302	0.30	990
1/4	402	0.40	1,320
5/16	503	0.50	1,650
3/8	604	0.60	1,980
1/2	805	0.80	2,640
5/8	1,006	1.01	3,300
3/4	1,207	1.21	3,960
7/8	1,408	1.41	4,620
1	1,609	1.61	5,280

Statute miles	Metres	Kilometres	Feet
1 1/4	2,012	2.01	6,600
1 1/2	2,414	2.41	7,920
1 3/4	2,816	2.82	9,240
2	3,219	3.22	10,560
2 1/2	4,023	4.02	13,200
3	4,828	4.83	15,840
4	6,437	6.44	21,120
5	8,047	8.05	26,400
6	9,656	9.66	31,680
7	11,265	11.27	36,960
10	16,093	16.09	52,800

RVR and visibility: what to know

Point	Detail
RVR	Runway visual range: how far a pilot on the runway centreline can see the runway lights or markings, measured by instruments.
Ground visibility	Prevailing visibility reported by an observer or automated system (statute miles in the US, metres elsewhere).
91.175(h)	Applies only when RVR is not reported for the runway of intended operation, and not to Category II or III minimums.
Not a conversion	RVR 1,600 ft is 0.30 SM as a distance, but the rule equates it to 1/4 SM: use the table, not arithmetic.

Sources and method

- **14 CFR 91.175(h), Comparable values of RVR and ground visibility** — Converts an RVR minimum to ground visibility when RVR is not reported (not for Category II or III minimums) (www.ecfr.gov/current/title-14/chapter-I/subchapter-F/part-91/subpart-B/subject-group-ECFR1d8a5dbf4a51ac3/section-91.175)
- **International Yard and Pound Agreement (1959)** — 1 ft = 0.3048 m exactly; 1 statute mile = 5,280 ft; 1 nautical mile = 1,852 m (exact by definition)

The RVR-to-visibility equivalences are quoted from 14 CFR 91.175(h)(2); every other value is an exact distance conversion. Interactive version, corrections and more charts: **allunitconversions.com/rvr-visibility-chart**