

Gas Resource Density—Conversion Factors

Convert From: ↓		Convert To:					
		cubic centimeters per square cm cm_g^3/cm_r^2	cubic meters per hectare m^3/ha	million cubic meters per square km MMm^3/km^2	thousand cubic feet per acre MCF/ac	million cubic feet per 80 acres MMCF/80 ac	billion cubic feet per square mile BCF/mi ²
		Multiply By:					
cubic cm per square cm cm_g^3/cm_r^2		1	100	0.01	1.429	0.1143	9.146×10^{-4}
cubic meters per hectare m^3/ha		0.01	1	10^{-4}	1.429×10^{-2}	1.143×10^{-3}	9.146×10^{-6}
million cubic meters per square km MMm^3/km^2		100	10^4	1	142.9	11.43	9.146×10^{-2}
thousand cubic feet per acre MCF/ac		0.6997	69.97	6.997×10^{-3}	1	0.08	6.400×10^{-4}
million cubic feet per 80 acres MMCF/80 ac		8.747	874.7	8.747×10^{-2}	12.5	1	0.008
billion cubic feet per square mile BCF/mi ²		1,093	1.093×10^5	10.93	1,562	125	1

$$\begin{aligned}
 &\text{Basic GRD Calculation:} \\
 &\quad \text{Net Reservoir Thickness (cm)} \\
 &\quad \times \text{ Gas Content (cm}^3/\text{g)} \\
 &\quad \times \text{ Density (g/cm}^3\text{)} \\
 &= \frac{\hspace{10em}}{\hspace{10em}} \\
 &\quad \text{Gas Resource Density (cm}^3/\text{cm}^2\text{)}
 \end{aligned}$$

All parameters must be on the same measurement basis with respect to ash.

Example: To convert cm^3/cm^2 to MCF/ac, multiply by 1.429

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