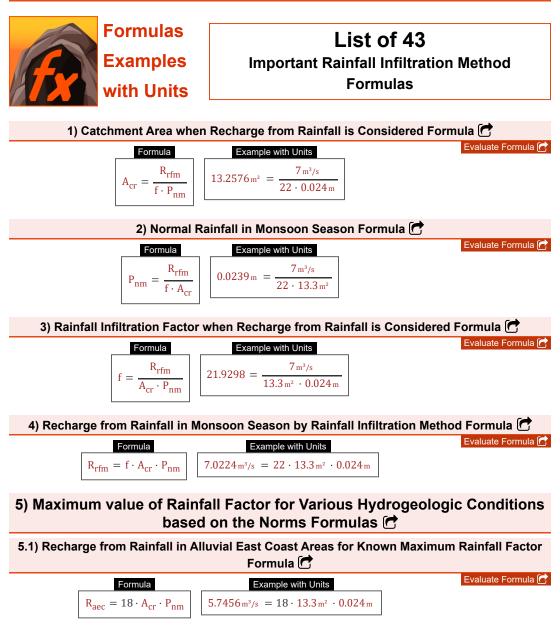
Important Rainfall Infiltration Method Formulas PDF

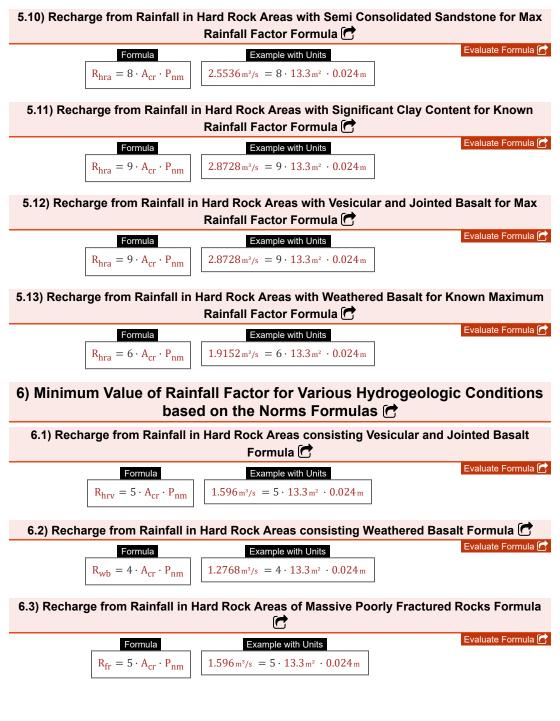




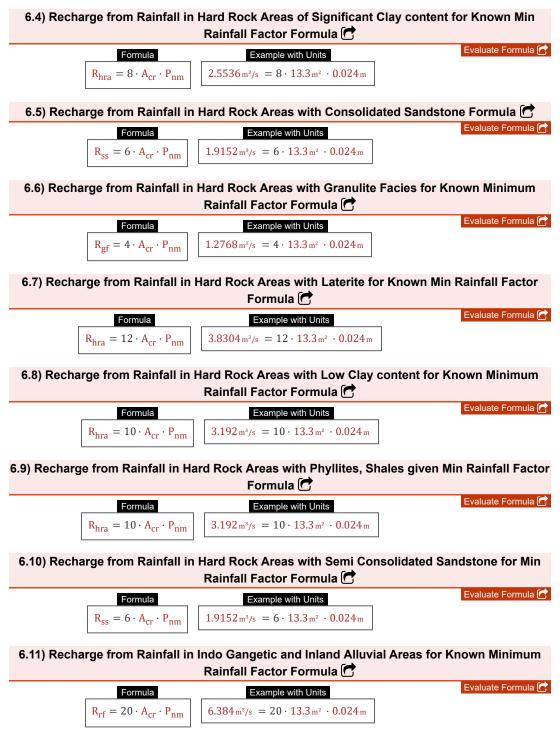


	Factor Formula 🕝			
Formula	Example with Units	Evaluate Formula 🕝		
$R_{ai} = 25 \cdot A_{cr} \cdot P_{nm}$	$7.98{\rm m}^{3}/{\rm s} = 25\cdot 13.3{\rm m}^{2}\cdot 0.024{\rm m}$			
5.3) Recharge from Rainfall in Alluvial West Coast Areas for Known Maximum Rainfall Factor Formula 🕝				
Formula	Example with Units	Evaluate Formula 🕝		
$R_{awc} = 12 \cdot A_{cr} \cdot P_{nm}$	$3.8304 \mathrm{m^3/s} = 12 \cdot 13.3 \mathrm{m^2} \cdot 0.024 \mathrm{m}$			
5.4) Recharge from Rainfall in Hard Rock Areas with Consolidated Sandstone for Maximum Rainfall Factor Formula				
Formula	Example with Units	Evaluate Formula		
$R_{hra} = 8 \cdot A_{cr} \cdot P_{nm}$	$2.5536\text{m}^3/\text{s} = 8 \cdot 13.3\text{m}^2 \cdot 0.024\text{m}$			
5.5) Recharge from Rainfall in Hard Rock Areas with Granulite Facies for Known Rainfall Factor Formula				
Formula	Example with Units	Evaluate Formula 🕝		
$R_{hra} = 6 \cdot A_{cr} \cdot P_{nm}$	$1.9152\text{m}^3\text{/s} = 6 \cdot 13.3\text{m}^2 \cdot 0.024\text{m}$			
5.6) Recharge from Rainfall in Hard Rock Areas with Laterite for Known Maximum Rainfall Factor Formula 🕝				
5.6) Recharge from Rainfall i	_ •			
Formula	_ •			
	Factor Formula 🕝			
Formula $R_{hrl} = 14 \cdot A_{cr} \cdot P_{nm}$	Factor Formula C Example with Units 4.4688 m³/s = 14 · 13.3 m² · 0.024 m n Hard Rock Areas with Low Clay Conte	Evaluate Formula 🕝		
Formula $R_{hrl} = 14 \cdot A_{cr} \cdot P_{nm}$	Example with Units 4.4688 m³/s = 14 · 13.3 m² · 0.024 m	Evaluate Formula (A		
Formula $R_{hrl} = 14 \cdot A_{cr} \cdot P_{nm}$ 5.7) Recharge from Rainfall i	Factor Formula Example with Units 4.4688 m ³ /s = 14 · 13.3 m ² · 0.024 m n Hard Rock Areas with Low Clay Conte Factor Formula	Evaluate Formula (A		
Formula $R_{hrl} = 14 \cdot A_{cr} \cdot P_{nm}$ 5.7) Recharge from Rainfall i Formula $R_{hrc} = 12 \cdot A_{cr} \cdot P_{nm}$	Factor Formula Example with Units 4.4688 m³/s = 14 · 13.3 m² · 0.024 m n Hard Rock Areas with Low Clay Conte Factor Formula Example with Units	Evaluate Formula 🕝		
Formula $R_{hrl} = 14 \cdot A_{cr} \cdot P_{nm}$ 5.7) Recharge from Rainfall i Formula $R_{hrc} = 12 \cdot A_{cr} \cdot P_{nm}$	Factor Formula C Example with Units 4.4688 m³/s = 14 · 13.3 m² · 0.024 m n Hard Rock Areas with Low Clay Conter Factor Formula Example with Units 3.8304 m³/s = 12 · 13.3 m² · 0.024 m Hard Rock Areas with Massive Poorly Fr	Evaluate Formula (*) ent for Known Rainfall Evaluate Formula (*) ractured Rocks Formula		
Formula $R_{hrl} = 14 \cdot A_{cr} \cdot P_{nm}$ 5.7) Recharge from Rainfall i Formula $R_{hrc} = 12 \cdot A_{cr} \cdot P_{nm}$ 5.8) Recharge from Rainfall in I	Factor Formula C Example with Units 4.4688 m³/s = 14 · 13.3 m² · 0.024 m I Hard Rock Areas with Low Clay Conte Example with Units Standard Brown and Standard	Evaluate Formula (*) ent for Known Rainfall Evaluate Formula (*) ractured Rocks Formula		
Formula $R_{hrl} = 14 \cdot A_{cr} \cdot P_{nm}$ 5.7) Recharge from Rainfall i Formula $R_{hrc} = 12 \cdot A_{cr} \cdot P_{nm}$ 5.8) Recharge from Rainfall in I Formula R_{hra} = 7 \cdot A_{cr} \cdot P_{nm}	Factor Formula C Example with Units 4.4688 m³/s = 14 · 13.3 m² · 0.024 m I Hard Rock Areas with Low Clay Conte Factor Formula C Example with Units 3.8304 m³/s = 12 · 13.3 m² · 0.024 m Hard Rock Areas with Massive Poorly Fr Example with Units	Evaluate Formula (*) ant for Known Rainfall Evaluate Formula (*) ractured Rocks Formula Evaluate Formula (*) for Known Max Rainfall		
Formula $R_{hrl} = 14 \cdot A_{cr} \cdot P_{nm}$ 5.7) Recharge from Rainfall i Formula $R_{hrc} = 12 \cdot A_{cr} \cdot P_{nm}$ 5.8) Recharge from Rainfall in I Formula R_{hra} = 7 \cdot A_{cr} \cdot P_{nm}	Factor Formula (*) Example with Units 4.4688 m³/s = 14 · 13.3 m² · 0.024 m I Hard Rock Areas with Low Clay Conte Factor Formula (*) Example with Units 3.8304 m³/s = 12 · 13.3 m² · 0.024 m Hard Rock Areas with Massive Poorly Fr Example with Units 2.2344 m³/s = 7 · 13.3 m² · 0.024 m Hard Rock Areas with Phyllites, Shales f	Evaluate Formula (*) ent for Known Rainfall Evaluate Formula (*) ractured Rocks Formula		

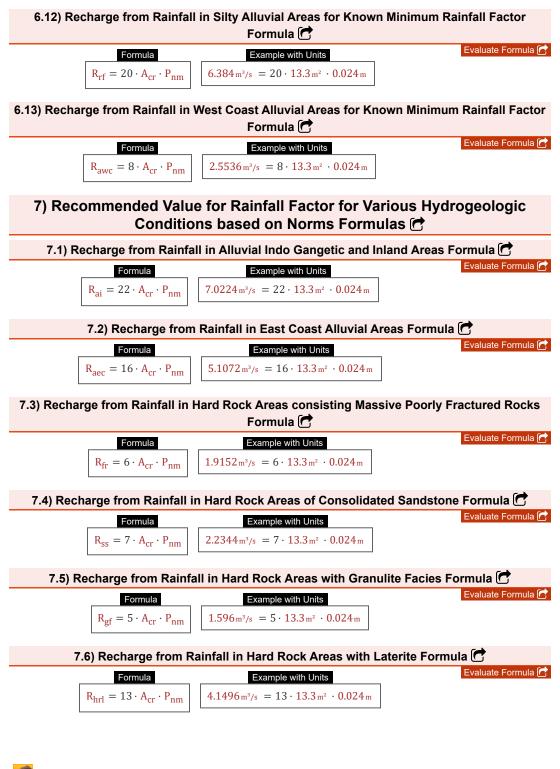


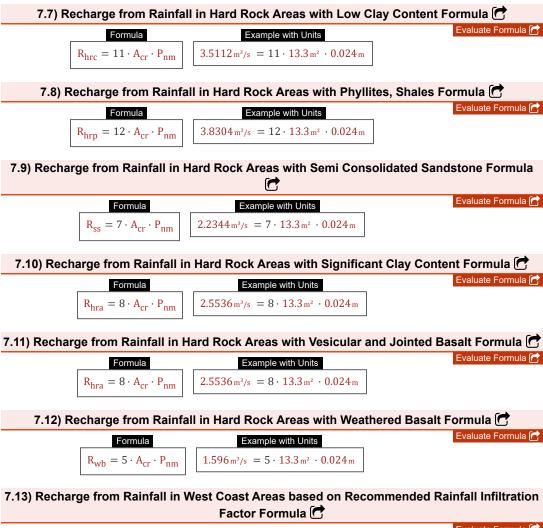












Formula	Example with Units	Evaluate Formula 💽
$R_{awc} = 10 \cdot A_{cr} \cdot P_{nm}$	$3.192\text{m}^3\text{/s} = 10 \cdot 13.3\text{m}^2 \cdot 0.024\text{m}$	



Variables used in list of Rainfall Infiltration Method Formulas above

- A_{cr} Area of Computation for Recharge (Square Meter)
- f Rainfall Infiltration Factor
- P_{nm} Normal Rainfall in Monsoon Season (Meter)
- R_{aec} Recharge from Rainfall in Alluvial East Coast (Cubic Meter per Second)
- **R**_{ai} Recharge from Rainfall in Alluvial Indo (*Cubic Meter per Second*)
- Rawc Recharge from Rainfall in Alluvial West
 Coast (Cubic Meter per Second)
- R_{fr} Rainfall Recharge in Hard Rock Poorly Fractured (*Cubic Meter per Second*)
- **R**_{gf} Rainfall Recharge in Hard Rock Granulite Facies (*Cubic Meter per Second*)
- R_{hra} Recharge from Rainfall in Hard Rock Areas
 (*Cubic Meter per Second*)
- R_{hrc} Recharge from Rainfall in Hard Rock Low Clay (*Cubic Meter per Second*)
- **R**_{hrl} Recharge from Rainfall in Hard Rock Laterite (*Cubic Meter per Second*)
- Rhrp Recharge from Rainfall in Hard Rock
 Phyllites (Cubic Meter per Second)
- R_{hrv} Recharge from Rainfall in Hard Rock Vesicular (*Cubic Meter per Second*)
- R_{rf} Recharge from Rainfall (Cubic Meter per Second)
- **R**_{rfm} Recharge from Rainfall in Monsoon Season (*Cubic Meter per Second*)
- **R**_{ss} Rainfall Recharge in Hard Rock Sandstone (*Cubic Meter per Second*)
- R_{wb} Rainfall Recharge in Hard Rock Weathered Basalt (*Cubic Meter per Second*)

Constants, Functions, Measurements used in list of Rainfall Infiltration Method Formulas above

- Measurement: Length in Meter (m)
 Length Unit Conversion
- Measurement: Area in Square Meter (m²) Area Unit Conversion
- Measurement: Volumetric Flow Rate in Cubic Meter per Second (m³/s) Volumetric Flow Rate Unit Conversion

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