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# Flow Over Rectangular Sharp Crested Weir or Notch Formulas

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# List of 41 Flow Over Rectangular Sharp Crested Weir or Notch Formulas

## Flow Over Rectangular Sharp Crested Weir or Notch

### 1) Approach Velocity

$$fx \quad v = \frac{Q'}{b \cdot d_f}$$

[Open Calculator !\[\]\(a870788d6ed9b8fd294b7654a8c8526b\_img.jpg\)](#)

$$ex \quad 15.4494 \text{ m/s} = \frac{153 \text{ m}^3/\text{s}}{3.001 \text{ m} \cdot 3.3 \text{ m}}$$

### 2) Bazins Formula for Discharge if Velocity is considered

$$fx \quad Q_{Bv} = m \cdot \sqrt{2 \cdot g} \cdot L_w \cdot H_{\text{Stillwater}}^{\frac{3}{2}}$$

[Open Calculator !\[\]\(c50c8b7b2cc2cf9ff925edec0ee94c0d\_img.jpg\)](#)

$$ex \quad 91.65573 \text{ m}^3/\text{s} = 0.407 \cdot \sqrt{2 \cdot 9.8 \text{ m/s}^2} \cdot 3 \text{ m} \cdot (6.6 \text{ m})^{\frac{3}{2}}$$

### 3) Bazins Formula for Discharge if Velocity is not considered

$$fx \quad Q_{Bv1} = m \cdot \sqrt{2 \cdot g} \cdot L_w \cdot S_w^{\frac{3}{2}}$$

[Open Calculator !\[\]\(f60b7a900783ac3fd531bfd9c111be6d\_img.jpg\)](#)

$$ex \quad 15.28934 \text{ m}^3/\text{s} = 0.407 \cdot \sqrt{2 \cdot 9.8 \text{ m/s}^2} \cdot 3 \text{ m} \cdot (2 \text{ m})^{\frac{3}{2}}$$


### 4) Coefficient for Bazin Formula

$$fx \quad m = 0.405 + \left( \frac{0.003}{S_w} \right)$$

[Open Calculator !\[\]\(83bbbd261710c59db0214aa27b2edc0d\_img.jpg\)](#)

$$ex \quad 0.4065 = 0.405 + \left( \frac{0.003}{2 \text{ m}} \right)$$



5) Coefficient for Bazin Formula if Velocity is considered [Open Calculator !\[\]\(4729e517bc6a7cd81c8025b9646574fb\_img.jpg\)](#)

$$\text{fx } m = 0.405 + \left( \frac{0.003}{H_{\text{Stillwater}}} \right)$$

$$\text{ex } 0.405455 = 0.405 + \left( \frac{0.003}{6.6\text{m}} \right)$$

6) Coefficient of Discharge given Discharge if Velocity considered [Open Calculator !\[\]\(e474458956c9a37fbf9586ddb60a7fa1\_img.jpg\)](#)


$$\text{fx } C_d = \frac{Q_{\text{Fr}} \cdot 3}{2 \cdot \left( \sqrt{2 \cdot g} \right) \cdot (L_w - 0.1 \cdot n \cdot H_{\text{Stillwater}}) \cdot \left( H_{\text{Stillwater}}^{\frac{3}{2}} - H_V^{\frac{3}{2}} \right)}$$

$$\text{ex } 1.06198 = \frac{8\text{m}^3/\text{s} \cdot 3}{2 \cdot \left( \sqrt{2 \cdot 9.8\text{m}/\text{s}^2} \right) \cdot (3\text{m} - 0.1 \cdot 4 \cdot 6.6\text{m}) \cdot \left( (6.6\text{m})^{\frac{3}{2}} - (4.6\text{m})^{\frac{3}{2}} \right)}$$

7) Coefficient of Discharge given Discharge if Velocity not considered [Open Calculator !\[\]\(4fe57c3593bf1b21d272ae7ac8dfaf77\_img.jpg\)](#)

$$\text{fx } C_d = \frac{Q_{\text{Fr}} \cdot 3}{2 \cdot \left( \sqrt{2 \cdot g} \right) \cdot (L_w - 0.1 \cdot n \cdot S_w) \cdot S_w^{\frac{3}{2}}}$$

$$\text{ex } 0.435598 = \frac{8\text{m}^3/\text{s} \cdot 3}{2 \cdot \left( \sqrt{2 \cdot 9.8\text{m}/\text{s}^2} \right) \cdot (3\text{m} - 0.1 \cdot 4 \cdot 2\text{m}) \cdot (2\text{m})^{\frac{3}{2}}}$$

8) Coefficient of Discharge given Discharge over Weir without considering Velocity [Open Calculator !\[\]\(2bae76de5ebbd5c4d7d47162f1673734\_img.jpg\)](#)

$$\text{fx } C_d = \frac{Q_{\text{Fr}} \cdot 3}{2 \cdot \left( \sqrt{2 \cdot g} \right) \cdot L_w \cdot S_w^{\frac{3}{2}}}$$

$$\text{ex } 1.118034 = \frac{28\text{m}^3/\text{s} \cdot 3}{2 \cdot \left( \sqrt{2 \cdot 9.8\text{m}/\text{s}^2} \right) \cdot 3\text{m} \cdot (2\text{m})^{\frac{3}{2}}}$$



9) Coefficient of Discharge given Discharge Passing over Weir considering Velocity 

$$fx \quad C_d = \frac{Q_{Fr'} \cdot 3}{2 \cdot \left(\sqrt{2 \cdot g}\right) \cdot L_w \cdot \left(\left(S_w + H_v\right)^{\frac{3}{2}} - H_v^{\frac{3}{2}}\right)}$$

Open Calculator 

$$ex \quad 0.446032 = \frac{28m^3/s \cdot 3}{2 \cdot \left(\sqrt{2 \cdot 9.8m/s^2}\right) \cdot 3m \cdot \left(\left(2m + 4.6m\right)^{\frac{3}{2}} - \left(4.6m\right)^{\frac{3}{2}}\right)}$$

10) Coefficient when Bazin Formula for Discharge if Velocity is considered 

$$fx \quad m = \frac{Q_{Bv}}{\sqrt{2 \cdot g} \cdot L_w \cdot H_{Stillwater}^{\frac{3}{2}}}$$

Open Calculator 


$$ex \quad 0.406975 = \frac{91.65m^3/s}{\sqrt{2 \cdot 9.8m/s^2} \cdot 3m \cdot (6.6m)^{\frac{3}{2}}}$$

11) Coefficient when Bazin Formula for Discharge Velocity is not considered 

$$fx \quad m = \frac{Q_{Bv1}}{\sqrt{2 \cdot g} \cdot L_w \cdot S_w^{\frac{3}{2}}}$$

Open Calculator 

$$ex \quad 0.407284 = \frac{15.3m^3/s}{\sqrt{2 \cdot 9.8m/s^2} \cdot 3m \cdot (2m)^{\frac{3}{2}}}$$

12) Depth of Water Flow in Channel given Velocity Approach 

$$fx \quad d_f = \frac{Q'}{b \cdot v}$$

Open Calculator 

$$ex \quad 3.376358m = \frac{153m^3/s}{3.001m \cdot 15.1m/s}$$




13) Francis Formula for Discharge for Rectangular Notch if Velocity is considered 

$$fx \quad Q_{Fr} = 1.84 \cdot (L_w - 0.1 \cdot n \cdot H_{Stillwater}) \cdot \left( H_{Stillwater}^{\frac{3}{2}} - H_V^{\frac{3}{2}} \right)$$

Open Calculator 


$$ex \quad 4.696288m^3/s = 1.84 \cdot (3m - 0.1 \cdot 4 \cdot 6.6m) \cdot \left( (6.6m)^{\frac{3}{2}} - (4.6m)^{\frac{3}{2}} \right)$$

14) Francis Formula for Discharge for Rectangular Notch if Velocity not considered 

$$fx \quad Q_{Fr} = 1.84 \cdot (L_w - 0.1 \cdot n \cdot S_w) \cdot S_w^{\frac{3}{2}}$$

Open Calculator 

$$ex \quad 11.44947m^3/s = 1.84 \cdot (3m - 0.1 \cdot 4 \cdot 2m) \cdot (2m)^{\frac{3}{2}}$$

15) Rehbocks Formula for Coefficient of Discharge 

$$fx \quad C_d = 0.605 + 0.08 \cdot \left( \frac{S_w}{h_{Crest}} \right) + \left( \frac{0.001}{S_w} \right)$$

Open Calculator 

$$ex \quad 0.618833 = 0.605 + 0.08 \cdot \left( \frac{2m}{12m} \right) + \left( \frac{0.001}{2m} \right)$$

16) Rehbocks Formula for Discharge over Rectangular Weir 

fx

Open Calculator 

$$Q_{Fr'} = \frac{2}{3} \cdot \left( 0.605 + 0.08 \cdot \left( \frac{S_w}{h_{Crest}} \right) + \left( \frac{0.001}{S_w} \right) \right) \cdot \sqrt{2 \cdot g} \cdot L_w \cdot S_w^{\frac{3}{2}}$$

ex

$$15.49804m^3/s = \frac{2}{3} \cdot \left( 0.605 + 0.08 \cdot \left( \frac{2m}{12m} \right) + \left( \frac{0.001}{2m} \right) \right) \cdot \sqrt{2 \cdot 9.8m/s^2} \cdot 3m \cdot (2m)^{\frac{3}{2}}$$

17) Width of Channel given Velocity Approach 

$$fx \quad b = \frac{Q'}{v \cdot d_f}$$

Open Calculator 

$$ex \quad 3.070439m = \frac{153m^3/s}{15.1m/s \cdot 3.3m}$$



## Discharge

### 18) Discharge considering Approach Velocity

fx

Open Calculator 

$$Q_{Fr} = \left(\frac{2}{3}\right) \cdot C_d \cdot \sqrt{2 \cdot g} \cdot (L_w - 0.1 \cdot n \cdot H_{\text{Stillwater}}) \cdot \left(H_{\text{Stillwater}}^{\frac{3}{2}} - H_V^{\frac{3}{2}}\right)$$

ex

$$4.971845\text{m}^3/\text{s} = \left(\frac{2}{3}\right) \cdot 0.66 \cdot \sqrt{2 \cdot 9.8\text{m}/\text{s}^2} \cdot (3\text{m} - 0.1 \cdot 4 \cdot 6.6\text{m}) \cdot \left((6.6\text{m})^{\frac{3}{2}} - (4.6\text{m})^{\frac{3}{2}}\right)$$

### 19) Discharge for Notch which is to be Calibrated

fx

$$Q_{Fr'} = k_{\text{Flow}} \cdot S_w^n$$

Open Calculator 

ex

$$29.44\text{m}^3/\text{s} = 1.84 \cdot (2\text{m})^4$$

### 20) Discharge given Velocity Approach

fx

$$Q' = v \cdot (b \cdot d_f)$$

Open Calculator 

ex

$$149.5398\text{m}^3/\text{s} = 15.1\text{m}/\text{s} \cdot (3.001\text{m} \cdot 3.3\text{m})$$

### 21) Discharge over Weir without considering Velocity

fx


$$Q_{Fr'} = \left(\frac{2}{3}\right) \cdot C_d \cdot \sqrt{2 \cdot g} \cdot L_w \cdot S_w^{\frac{3}{2}}$$

Open Calculator 

ex


$$16.52901\text{m}^3/\text{s} = \left(\frac{2}{3}\right) \cdot 0.66 \cdot \sqrt{2 \cdot 9.8\text{m}/\text{s}^2} \cdot 3\text{m} \cdot (2\text{m})^{\frac{3}{2}}$$



22) Discharge Passing over Weir considering Velocity Open Calculator 


$$\text{fx } Q_{Fr'} = \left(\frac{2}{3}\right) \cdot C_d \cdot \sqrt{2 \cdot g} \cdot L_w \cdot \left( (S_w + H_V)^{\frac{3}{2}} - H_V^{\frac{3}{2}} \right)$$

$$\text{ex } 41.43204 \text{m}^3/\text{s} = \left(\frac{2}{3}\right) \cdot 0.66 \cdot \sqrt{2 \cdot 9.8 \text{m/s}^2} \cdot 3\text{m} \cdot \left( (2\text{m} + 4.6\text{m})^{\frac{3}{2}} - (4.6\text{m})^{\frac{3}{2}} \right)$$

23) Discharge when End Contractions is suppressed and Velocity is considered Open Calculator 


$$\text{fx } Q_{Fr'} = 1.84 \cdot L_w \cdot \left( H_{\text{Stillwater}}^{\frac{3}{2}} - H_V^{\frac{3}{2}} \right)$$

$$\text{ex } 39.13573 \text{m}^3/\text{s} = 1.84 \cdot 3\text{m} \cdot \left( (6.6\text{m})^{\frac{3}{2}} - (4.6\text{m})^{\frac{3}{2}} \right)$$

24) Discharge when End Contractions is suppressed and Velocity is not considered Open Calculator 


$$\text{fx } Q_{Fr'} = 1.84 \cdot L_w \cdot S_w^{\frac{3}{2}}$$

$$\text{ex } 15.61292 \text{m}^3/\text{s} = 1.84 \cdot 3\text{m} \cdot (2\text{m})^{\frac{3}{2}}$$

Hydraulic Head 25) Head given Coefficient for Bazin Formula Open Calculator 

$$\text{fx } S_w = \frac{0.003}{m - 0.405}$$

$$\text{ex } 1.5\text{m} = \frac{0.003}{0.407 - 0.405}$$

26) Head given Coefficient using Bazin Formula and Velocity Open Calculator 

$$\text{fx } H_{\text{Stillwater}} = \frac{0.003}{m - 0.405}$$

$$\text{ex } 1.5\text{m} = \frac{0.003}{0.407 - 0.405}$$



27) Head given Discharge through Notch which is to be Calibrated 

$$fx \quad S_w = \left( \frac{Q_{Fr'}}{k_{Flow}} \right)^{\frac{1}{n}}$$

Open Calculator 

$$ex \quad 1.975082m = \left( \frac{28m^3/s}{1.84} \right)^{\frac{1}{4}}$$

28) Head over Crest for given Discharge without Velocity 

$$fx \quad S_w = \left( \frac{Q_{Fr'} \cdot 3}{2 \cdot C_d \cdot \sqrt{2 \cdot g} \cdot L_w} \right)^{\frac{2}{3}}$$

Open Calculator 

$$ex \quad 2.842087m = \left( \frac{28m^3/s \cdot 3}{2 \cdot 0.66 \cdot \sqrt{2 \cdot 9.8m/s^2} \cdot 3m} \right)^{\frac{2}{3}}$$

29) Head over Crest given Discharge Passing over Weir with Velocity 

$$fx \quad S_w = \left( \left( \frac{Q_{Fr'} \cdot 3}{2 \cdot C_d \cdot \sqrt{2 \cdot g} \cdot L_w} \right) + H_V^{\frac{3}{2}} \right)^{\frac{2}{3}} - H_V$$

Open Calculator 

$$ex \quad 1.389188m = \left( \left( \frac{28m^3/s \cdot 3}{2 \cdot 0.66 \cdot \sqrt{2 \cdot 9.8m/s^2} \cdot 3m} \right) + (4.6m)^{\frac{3}{2}} \right)^{\frac{2}{3}} - 4.6m$$

30) Head when Bazin Formula for Discharge if Velocity is considered 


$$fx \quad H_{Stillwater} = \left( \frac{Q_{Bv}}{m \cdot \sqrt{2 \cdot g} \cdot L_w} \right)^{\frac{2}{3}}$$

Open Calculator 

$$ex \quad 6.599725m = \left( \frac{91.65m^3/s}{0.407 \cdot \sqrt{2 \cdot 9.8m/s^2} \cdot 3m} \right)^{\frac{2}{3}}$$





31) Head when Bazin Formula for Discharge if Velocity is not considered 

$$fx \quad S_w = \left( \frac{Q_{Bv1}}{m \cdot \sqrt{2 \cdot g \cdot L_w}} \right)^{\frac{2}{3}}$$

Open Calculator 

$$ex \quad 2.00093m = \left( \frac{15.3m^3/s}{0.407 \cdot \sqrt{2 \cdot 9.8m/s^2 \cdot 3m}} \right)^{\frac{2}{3}}$$

32) Head when End Contractions is suppressed 

$$fx \quad H_{Stillwater} = \left( \frac{Q_{Fr'}}{1.84 \cdot L_w} \right)^{\frac{2}{3}}$$

Open Calculator 

$$ex \quad 2.952201m = \left( \frac{28m^3/s}{1.84 \cdot 3m} \right)^{\frac{2}{3}}$$


Length of Crest 33) Length given Bazins Formula for Discharge if Velocity is not considered 

$$fx \quad L_w = \frac{Q_{Bv1}}{m \cdot \sqrt{2 \cdot g \cdot S_w^{\frac{3}{2}}}}$$

Open Calculator 

$$ex \quad 3.002092m = \frac{15.3m^3/s}{0.407 \cdot \sqrt{2 \cdot 9.8m/s^2 \cdot (2m)^{\frac{3}{2}}}}$$



34) Length of Crest considering Velocity 

fx

Open Calculator 

$$L_w = \left( \frac{3 \cdot Q_{Fr'}}{2 \cdot C_d \cdot \sqrt{2 \cdot g} \cdot \left( H_{Stillwater}^{\frac{3}{2}} - H_V^{\frac{3}{2}} \right)} \right) + (0.1 \cdot n \cdot H_{Stillwater})$$

$$\text{ex } 4.667416\text{m} = \left( \frac{3 \cdot 28\text{m}^3/\text{s}}{2 \cdot 0.66 \cdot \sqrt{2 \cdot 9.8\text{m}/\text{s}^2} \cdot \left( (6.6\text{m})^{\frac{3}{2}} - (4.6\text{m})^{\frac{3}{2}} \right)} \right) + (0.1 \cdot 4 \cdot 6.6\text{m})$$

35) Length of Crest given Discharge Passing over Weir 

fx

Open Calculator 

$$L_w = \frac{Q_{Fr'} \cdot 3}{2 \cdot C_d \cdot \sqrt{2 \cdot g} \cdot \left( (S_w + H_V)^{\frac{3}{2}} - H_V^{\frac{3}{2}} \right)}$$

$$\text{ex } 2.027416\text{m} = \frac{28\text{m}^3/\text{s} \cdot 3}{2 \cdot 0.66 \cdot \sqrt{2 \cdot 9.8\text{m}/\text{s}^2} \cdot \left( (2\text{m} + 4.6\text{m})^{\frac{3}{2}} - (4.6\text{m})^{\frac{3}{2}} \right)}$$

36) Length of Crest when Discharge and Velocity is considered 

fx

Open Calculator 

$$L_w = \frac{Q_{Fr'}}{1.84 \cdot \left( H_{Stillwater}^{\frac{3}{2}} - H_V^{\frac{3}{2}} \right)}$$

$$\text{ex } 2.146376\text{m} = \frac{28\text{m}^3/\text{s}}{1.84 \cdot \left( (6.6\text{m})^{\frac{3}{2}} - (4.6\text{m})^{\frac{3}{2}} \right)}$$

37) Length of Crest when Discharge and Velocity is not considered 

fx

Open Calculator 

$$L_w = \frac{Q_{Fr'}}{1.84 \cdot H_{Stillwater}^{\frac{3}{2}}}$$

$$\text{ex } 0.897479\text{m} = \frac{28\text{m}^3/\text{s}}{1.84 \cdot (6.6\text{m})^{\frac{3}{2}}}$$



38) Length of Crest when Francis Formula Discharge and Velocity is considered Open Calculator 

$$\text{fx } L_w = \left( \frac{Q_{Fr}}{1.84 \cdot \left( H_{\text{Stillwater}}^{\frac{3}{2}} - H_V^{\frac{3}{2}} \right)} \right) + (0.1 \cdot n \cdot H_{\text{Stillwater}})$$

$$\text{ex } 3.25325\text{m} = \left( \frac{8\text{m}^3/\text{s}}{1.84 \cdot \left( (6.6\text{m})^{\frac{3}{2}} - (4.6\text{m})^{\frac{3}{2}} \right)} \right) + (0.1 \cdot 4 \cdot 6.6\text{m})$$

39) Length of Crest when Francis Formula Discharge and Velocity is not considered Open Calculator 

$$\text{fx } L_w = \left( \frac{Q_{Fr}}{1.84 \cdot S_w^{\frac{3}{2}}} \right) + (0.1 \cdot n \cdot S_w)$$

$$\text{ex } 2.337189\text{m} = \left( \frac{8\text{m}^3/\text{s}}{1.84 \cdot (2\text{m})^{\frac{3}{2}}} \right) + (0.1 \cdot 4 \cdot 2\text{m})$$

40) Length of Crest without considering Velocity Open Calculator 

$$\text{fx } L_w = \left( \frac{Q_{Fr} \cdot 2}{3 \cdot C_d \cdot \sqrt{2 \cdot g}} \right)^{\frac{2}{3}} + (0.1 \cdot n \cdot S_w)$$

$$\text{ex } 2.293543\text{m} = \left( \frac{8\text{m}^3/\text{s} \cdot 2}{3 \cdot 0.66 \cdot \sqrt{2 \cdot 9.8\text{m}/\text{s}^2}} \right)^{\frac{2}{3}} + (0.1 \cdot 4 \cdot 2\text{m})$$

41) Length when Bazins formula for Discharge if Velocity is considered Open Calculator 

$$\text{fx } L_w = \frac{Q_{Bv}}{m \cdot \sqrt{2 \cdot g} \cdot H_{\text{Stillwater}}^{\frac{3}{2}}}$$

$$\text{ex } 2.999813\text{m} = \frac{91.65\text{m}^3/\text{s}}{0.407 \cdot \sqrt{2 \cdot 9.8\text{m}/\text{s}^2} \cdot (6.6\text{m})^{\frac{3}{2}}}$$







## Variables Used

- **b** Width of Channel1 (Meter)
- **C<sub>d</sub>** Coefficient of Discharge
- **d<sub>f</sub>** Depth of Flow (Meter)
- **g** Acceleration due to Gravity (Meter per Square Second)
- **h<sub>Crest</sub>** Height of Crest (Meter)
- **H<sub>Stillwater</sub>** Still Water Head (Meter)
- **H<sub>V</sub>** Velocity Head (Meter)
- **k<sub>Flow</sub>** Constant of Flow
- **L<sub>w</sub>** Length of Weir Crest (Meter)
- **m** Bazins Coefficient
- **n** Number of End Contraction
- **Q'** Discharge by Approach Velocity (Cubic Meter per Second)
- **Q<sub>BV</sub>** Bazins Discharge with Velocity (Cubic Meter per Second)
- **Q<sub>BV1</sub>** Bazins Discharge without Velocity (Cubic Meter per Second)
- **Q<sub>Fr</sub>** Francis Discharge (Cubic Meter per Second)
- **Q<sub>Fr'</sub>** Francis Discharge with Suppressed End (Cubic Meter per Second)
- **S<sub>w</sub>** Height of Water above Crest of Weir (Meter)
- **v** Velocity of Flow 1 (Meter per Second)








## Constants, Functions, Measurements used

- **Function:** **sqrt**, `sqrt(Number)`  
*A square root function is a function that takes a non-negative number as an input and returns the square root of the given input number.*
- **Measurement:** **Length** in Meter (m)  
*Length Unit Conversion* 
- **Measurement:** **Speed** in Meter per Second (m/s)  
*Speed Unit Conversion* 
- **Measurement:** **Acceleration** in Meter per Square Second ( $\text{m/s}^2$ )  
*Acceleration Unit Conversion* 
- **Measurement:** **Volumetric Flow Rate** in Cubic Meter per Second ( $\text{m}^3/\text{s}$ )  
*Volumetric Flow Rate Unit Conversion* 



## Check other formula lists

- [Broad Crested Weir Formulas](#) 
- [Flow Over a Trapezoidal and Triangular Weir or Notch Formulas](#) 
- [Flow Over Rectangular Sharp Crested Weir or Notch Formulas](#) 
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