**WEIRS**

**General Flow Equation**

**Q = C x L x H1.5**

**Q - Discharge**

**C - constant**

**L - Width of crest**

**H - Head**

**Weir** **- Vertical Contraction**

**Flume - Horizontal Contraction**

***Types of Weirs***

1. Rectangular Weirs (Suppressed)

**Q = 1.84 x L x H1.5**

**Q = m3/s**

**L & H in meters**

**(Applicable to Drop Structures of W/Cs)**

1. Rectangular Weirs (Contracted)

**Q = 1.84 (L - 0.2H) H1.5**

**Limitations**

* **Depth of flow (H) over crest > 0.03 m**
* **Crest of weir above channel bottom > 0.3 m**
* **Width (L) > 0.15 m**
* **D/s FSL > 0.06 m below weir crest**

1. **Trapezoidal Weir**

**Q = 1.86 x L x H1.5**

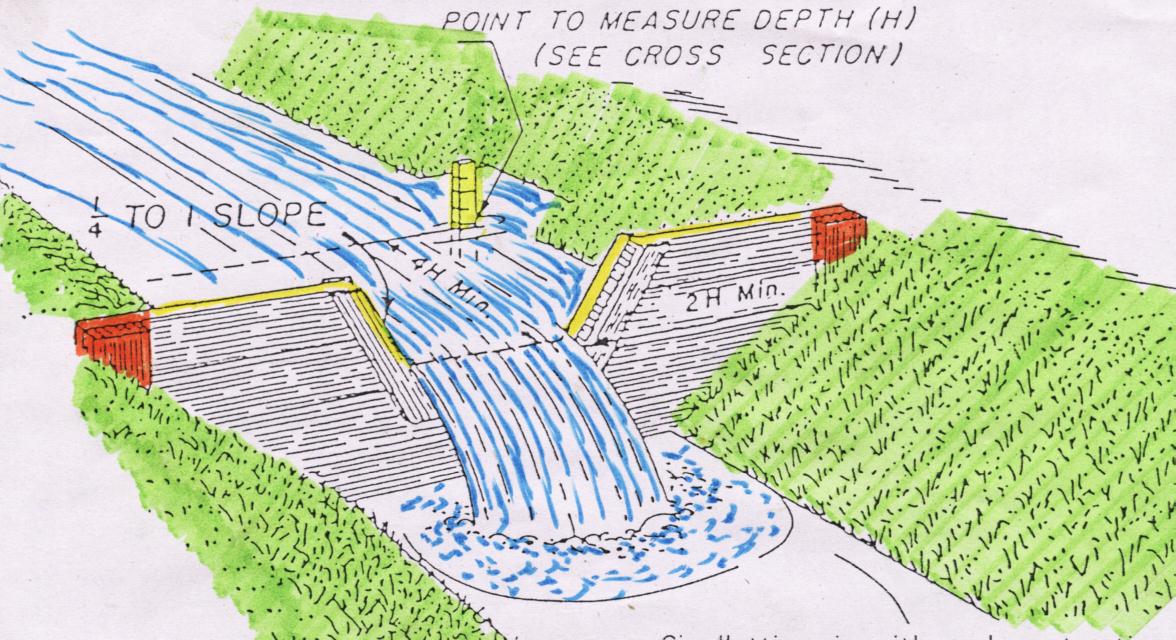
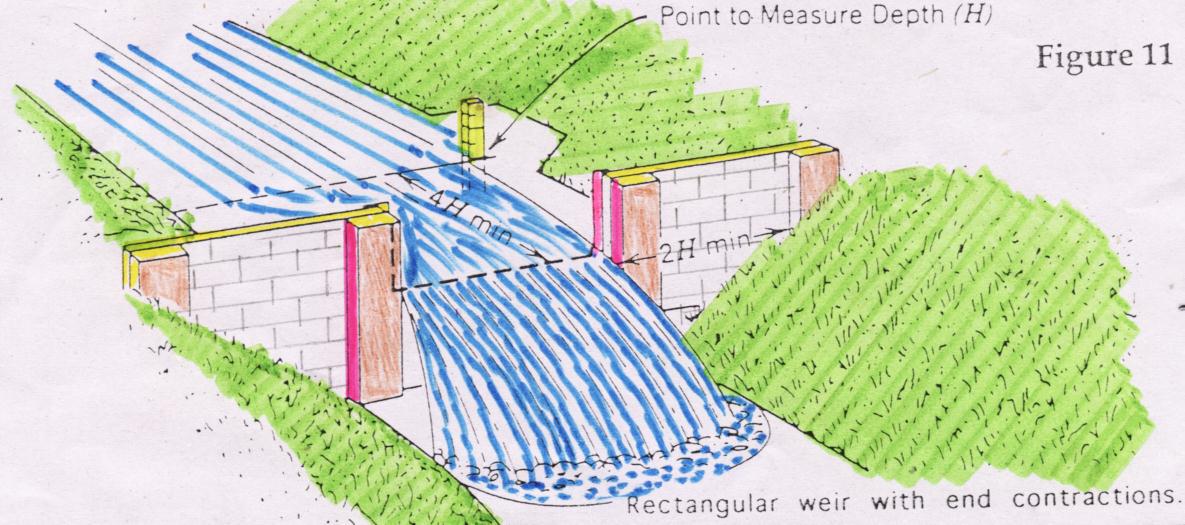
**Q = m3/s**

**L & H in meters**

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**Limitations**

* **Weir crest height > 0.3 m**
* **Head 0.06 - 0.6 m**
* **Head / L < 0.5**
* **FSL of D/S should be 0.06 m below the crest of weir**



* + A X V