**HYDRO ENERGY WORKSHEET**

E = 9.8 x H x m

* E = energy output per day (kWh)
* H = head (m)
* m = flow (cubic feet per second - CFS)

Efficiency = 50%

Actual Energy Output = E x 0.50

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **River** | **Flow (m3/s)** | **Head**  **(m)** | **E**  **(kWh PER DAY)** | **Actual Output**  **(kWh PER DAY)** |
| Raging River – Winter | 3.5 | 2.5 |  |  |
| Raging River – Summer | 1.5 | 2.5 |  |  |
| Babbling Brook – Winter | 4.0 | 1.2 |  |  |
| Babbling Brook – Summer | 2.5 | 1.2 |  |  |
| Slippery Stream – Winter | 2.75 | 3.0 |  |  |