**S9 Table. Acidification per ton of fish produced for the five sub-systems as a function of thermal growth coefficient (TGC) and feed conversion ratio (FCR). Qprod is the quota on annual production, Qannual\_feed is on annual feed distributed, Qstock is on the daily biomass present on site and Qdaily\_feed is on daily feed distributed.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | Acidification (kg SO2-eq) / ton of fish) | | | | |
| Quota | TGC | FCR | Feed production | Energy use | Equipment and facilities | Chemical used | Farm operation |
| Qprod | 2.25 | 2.02 | 18.19 | 0.62 | 0.44 | 2.52 | 0 |
| 2.33 | 2.02 | 18.19 | 0.62 | 0.44 | 2.52 | 0 |
| 2.25 | 1.64 | 14.76 | 0.62 | 0.44 | 2.52 | 0 |
|  |  |  |  |  |  |  |  |
| Qannual\_feed | 2.33 | 2.02 | 18.19 | 0.62 | 0.44 | 2.52 | 0 |
| 2.25 | 2.02 | 18.19 | 0.62 | 0.44 | 2.52 | 0 |
| 2.33 | 1.64 | 14.76 | 0.50 | 0.36 | 2.04 | 0 |
|  |  |  |  |  |  |  |  |
| Qstock | 2.25 | 2.02 | 18.19 | 0.62 | 0.44 | 2.52 | 0 |
| 2.33 | 2.02 | 18.19 | 0.58 | 0.42 | 2.39 | 0 |
| 2.25 | 1.64 | 14.74 | 0.62 | 0.44 | 2.52 | 0 |
|  |  |  |  |  |  |  |  |
| Qdaily\_feed | 2.25 | 2.02 | 18.19 | 0.62 | 0.44 | 2.52 | 0 |
| 2.33 | 2.02 | 18.19 | 0.59 | 0.42 | 2.43 | 0 |
| 2.25 | 1.64 | 14.75 | 0.53 | 0.38 | 2.17 | 0 |