|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| span\_length | current\_label | depth | current\_speed | Re | shredding\_frequency\_inline | KC | boundary\_condition | internal\_fluid | mode 1 | safety\_factor\_inline | safety\_factor\_crossflow |
| 44.0 | 1 yr | 0 | 0.7 | 4258.6219298245605 | 0.0130232558139534 | 196.85039370078744 | simply\_supported | empty | 4.083117253984201 | 313.5250748595012 | 627.0501497190024 |
| 44.0 | 1 yr | 0 | 0.7 | 4258.6219298245605 | 0.0130232558139534 | 196.85039370078744 | simply\_supported | flooded | 3.2342515089731965 | 248.34431229615615 | 496.6886245923124 |
| 80.0 | 1 yr | 0 | 0.7 | 4258.6219298245605 | 0.0130232558139534 | 196.85039370078744 | simply\_supported | empty | 1.2351429693302207 | 94.8413351449991 | 189.6826702899982 |
| 80.0 | 1 yr | 0 | 0.7 | 4258.6219298245605 | 0.0130232558139534 | 196.85039370078744 | simply\_supported | flooded | 0.978361081464392 | 75.12415446958724 | 150.24830893917448 |
| 44.0 | 1 yr | 25 | 0.5 | 3041.8728070175434 | 0.0093023255813953 | 196.8503937007874 | simply\_supported | empty | 4.083117253984201 | 438.93510480330167 | 877.8702096066033 |
| 44.0 | 1 yr | 25 | 0.5 | 3041.8728070175434 | 0.0093023255813953 | 196.8503937007874 | simply\_supported | flooded | 3.2342515089731965 | 347.6820372146186 | 695.3640744292372 |
| 80.0 | 1 yr | 25 | 0.5 | 3041.8728070175434 | 0.0093023255813953 | 196.8503937007874 | simply\_supported | empty | 1.2351429693302207 | 132.77786920299872 | 265.55573840599743 |
| 80.0 | 1 yr | 25 | 0.5 | 3041.8728070175434 | 0.0093023255813953 | 196.8503937007874 | simply\_supported | flooded | 0.978361081464392 | 105.17381625742212 | 210.34763251484424 |
| 44.0 | 1 yr | 50 | 0.3 | 1825.123684210526 | 0.0055813953488372 | 196.8503937007874 | simply\_supported | empty | 4.083117253984201 | 731.5585080055027 | 1463.1170160110055 |
| 44.0 | 1 yr | 50 | 0.3 | 1825.123684210526 | 0.0055813953488372 | 196.8503937007874 | simply\_supported | flooded | 3.2342515089731965 | 579.4700620243643 | 1158.9401240487286 |
| 80.0 | 1 yr | 50 | 0.3 | 1825.123684210526 | 0.0055813953488372 | 196.8503937007874 | simply\_supported | empty | 1.2351429693302207 | 221.2964486716645 | 442.592897343329 |
| 80.0 | 1 yr | 50 | 0.3 | 1825.123684210526 | 0.0055813953488372 | 196.8503937007874 | simply\_supported | flooded | 0.978361081464392 | 175.2896937623702 | 350.5793875247404 |
| 44.0 | 1 yr | 75 | 0.3 | 1825.123684210526 | 0.0055813953488372 | 196.8503937007874 | simply\_supported | empty | 4.083117253984201 | 731.5585080055027 | 1463.1170160110055 |
| 44.0 | 1 yr | 75 | 0.3 | 1825.123684210526 | 0.0055813953488372 | 196.8503937007874 | simply\_supported | flooded | 3.2342515089731965 | 579.4700620243643 | 1158.9401240487286 |
| 80.0 | 1 yr | 75 | 0.3 | 1825.123684210526 | 0.0055813953488372 | 196.8503937007874 | simply\_supported | empty | 1.2351429693302207 | 221.2964486716645 | 442.592897343329 |
| 80.0 | 1 yr | 75 | 0.3 | 1825.123684210526 | 0.0055813953488372 | 196.8503937007874 | simply\_supported | flooded | 0.978361081464392 | 175.2896937623702 | 350.5793875247404 |
| 44.0 | 1 yr | 100 | 0.1 | 608.3745614035087 | 0.001860465116279 | 196.8503937007874 | simply\_supported | empty | 4.083117253984201 | 2194.675524016508 | 4389.351048033016 |
| 44.0 | 1 yr | 100 | 0.1 | 608.3745614035087 | 0.001860465116279 | 196.8503937007874 | simply\_supported | flooded | 3.2342515089731965 | 1738.4101860730927 | 3476.820372146185 |
| 80.0 | 1 yr | 100 | 0.1 | 608.3745614035087 | 0.001860465116279 | 196.8503937007874 | simply\_supported | empty | 1.2351429693302207 | 663.8893460149935 | 1327.778692029987 |
| 80.0 | 1 yr | 100 | 0.1 | 608.3745614035087 | 0.001860465116279 | 196.8503937007874 | simply\_supported | flooded | 0.978361081464392 | 525.8690812871106 | 1051.7381625742212 |
| 44.0 | 100 yr | 0 | 0.8 | 4866.996491228069 | 0.0148837209302325 | 196.8503937007874 | simply\_supported | empty | 4.083117253984201 | 274.3344405020635 | 548.668881004127 |
| 44.0 | 100 yr | 0 | 0.8 | 4866.996491228069 | 0.0148837209302325 | 196.8503937007874 | simply\_supported | flooded | 3.2342515089731965 | 217.3012732591366 | 434.6025465182732 |
| 80.0 | 100 yr | 0 | 0.8 | 4866.996491228069 | 0.0148837209302325 | 196.8503937007874 | simply\_supported | empty | 1.2351429693302207 | 82.98616825187419 | 165.97233650374838 |
| 80.0 | 100 yr | 0 | 0.8 | 4866.996491228069 | 0.0148837209302325 | 196.8503937007874 | simply\_supported | flooded | 0.978361081464392 | 65.73363516088882 | 131.46727032177765 |
| 44.0 | 100 yr | 25 | 0.6 | 3650.247368421052 | 0.0111627906976744 | 196.8503937007874 | simply\_supported | empty | 4.083117253984201 | 365.7792540027514 | 731.5585080055027 |
| 44.0 | 100 yr | 25 | 0.6 | 3650.247368421052 | 0.0111627906976744 | 196.8503937007874 | simply\_supported | flooded | 3.2342515089731965 | 289.73503101218216 | 579.4700620243643 |
| 80.0 | 100 yr | 25 | 0.6 | 3650.247368421052 | 0.0111627906976744 | 196.8503937007874 | simply\_supported | empty | 1.2351429693302207 | 110.64822433583228 | 221.2964486716645 |
| 80.0 | 100 yr | 25 | 0.6 | 3650.247368421052 | 0.0111627906976744 | 196.8503937007874 | simply\_supported | flooded | 0.978361081464392 | 87.6448468811851 | 175.2896937623702 |
| 44.0 | 100 yr | 50 | 0.4 | 2433.4982456140347 | 0.0074418604651162 | 196.8503937007874 | simply\_supported | empty | 4.083117253984201 | 548.668881004127 | 1097.337762008254 |
| 44.0 | 100 yr | 50 | 0.4 | 2433.4982456140347 | 0.0074418604651162 | 196.8503937007874 | simply\_supported | flooded | 3.2342515089731965 | 434.6025465182732 | 869.2050930365464 |
| 80.0 | 100 yr | 50 | 0.4 | 2433.4982456140347 | 0.0074418604651162 | 196.8503937007874 | simply\_supported | empty | 1.2351429693302207 | 165.97233650374838 | 331.9446730074968 |
| 80.0 | 100 yr | 50 | 0.4 | 2433.4982456140347 | 0.0074418604651162 | 196.8503937007874 | simply\_supported | flooded | 0.978361081464392 | 131.46727032177765 | 262.9345406435553 |
| 44.0 | 100 yr | 75 | 0.3 | 1825.123684210526 | 0.0055813953488372 | 196.8503937007874 | simply\_supported | empty | 4.083117253984201 | 731.5585080055027 | 1463.1170160110055 |
| 44.0 | 100 yr | 75 | 0.3 | 1825.123684210526 | 0.0055813953488372 | 196.8503937007874 | simply\_supported | flooded | 3.2342515089731965 | 579.4700620243643 | 1158.9401240487286 |
| 80.0 | 100 yr | 75 | 0.3 | 1825.123684210526 | 0.0055813953488372 | 196.8503937007874 | simply\_supported | empty | 1.2351429693302207 | 221.2964486716645 | 442.592897343329 |
| 80.0 | 100 yr | 75 | 0.3 | 1825.123684210526 | 0.0055813953488372 | 196.8503937007874 | simply\_supported | flooded | 0.978361081464392 | 175.2896937623702 | 350.5793875247404 |
| 44.0 | 100 yr | 100 | 0.1 | 608.3745614035087 | 0.001860465116279 | 196.8503937007874 | simply\_supported | empty | 4.083117253984201 | 2194.675524016508 | 4389.351048033016 |
| 44.0 | 100 yr | 100 | 0.1 | 608.3745614035087 | 0.001860465116279 | 196.8503937007874 | simply\_supported | flooded | 3.2342515089731965 | 1738.4101860730927 | 3476.820372146185 |
| 80.0 | 100 yr | 100 | 0.1 | 608.3745614035087 | 0.001860465116279 | 196.8503937007874 | simply\_supported | empty | 1.2351429693302207 | 663.8893460149935 | 1327.778692029987 |
| 80.0 | 100 yr | 100 | 0.1 | 608.3745614035087 | 0.001860465116279 | 196.8503937007874 | simply\_supported | flooded | 0.978361081464392 | 525.8690812871106 | 1051.7381625742212 |