**Regression analysis**

**Base flow** & **Base flow dominated flow** for **qb(FLC), qb(ULC), qb(GLC)** and **qb(ALC)**

**\*Qb = qb(FLC)\*AFLC + qb(ULC)\*AULC + qb(GLC)\*AGLC + qb(ALC)\*AALC**

\* Flow coefficient (with constraints; CN ratio + forest constraint; 450 mm/yr)

: GLC ≤ 0.820866 \* FLC; ALC ≤ 0.742012 \* GLC; ULC ≤ 0.5547 \* ALC

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Coefficient  (mm/yr) | Base flow | | | **Base flow dominated flow** | | |
| Calibration | Validation | Total period | Calibration | Validation | Total period |
| 1991 to 2001 | 2002 to 2012 | 1991 to 2001 | 2002 to 2012 |
| qb(FLC) | 450.0 | 450.0 | 450.0 | 426.5 | 426.5 | **336.9** |
| qb(ULC) | 0.0 | 0.0 | 72.7 | 30.3 | 30.3 | **40.5** |
| qb(GLC) | 321.9 | 321.9 | 334.0 | 73.7 | 73.7 | **98.4** |
| qb(ALC) | 238.8 | 238.8 | 247.8 | 54.7 | 54.7 | **73.0** |
| R2 | 0.96 | 0.96 | 0.96 | 0.81 | 0.82 | **0.82** |