# 5. CALCUL DE BILAN HYDROLOGIQUE DU BARRAGE DE BOALI

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## 1. Objectifs

Les objectifs ici sont de stimuler l'arrivée d'eau du barrage de BOALI construit à BOALI sur la rivière MBALI, pour étudier le bilan hydrologique du barrage pendant 35 ans, de 1964 à 1998, afin d'analyser la fréquence de la pénurie d'eau du barrage, et pour établir des données de base pour l'estimation de l'arrivée d'eau de sécheresse probable de la rivière MBALI. L'arrivée d'eau de base à libérer du barrage est fixée à l'arrivée d'eau minimale requise pour la production d'électricité ou 20 $m^3$/sec. et 25 $m^3$/sec.

## 2. Bassin fluvial

| | |
|---|---|
| Emplacement | : Latitude N 4□50' - N 5□50', Longitude E 17□00' - E 18□05' |
| Altitude | : env. 550 m - 700 m |
| Bassin versant | : 4.560 $km^2$ (rivières BOALI, MBALI) |
| Précipitations annuelles | : env. 1.540 mm (BOSSEMBELE, moyenne 1964-1998) |

Dans le bassin fluvial, le climat de savane tropicale domine (saison sèche: décembre-janvier, saison des pluies: mars-novembre). Il n'y a pas de zone montagneuse à pentes raides, mais des zones de collines à pente relativement douce du point de vue topographique. Les roches métamorphiques précambriennes sont considérées comme la principale roche de base de la région, incluant le bassin, du point de vue géologique. La latérite et le sol latéritique couvrent la majeure partie de la région. Du point de vue morphologique, le système hydrologique est considéré être dans son état naturel. Il n'y a pas de prise d'eau de grande envergure. Le barrage de BOALI, achevé en novembre 1990, a permis de fournir 20 $m^3$/sec aux centrales électriques de BOALI I et II même pendant la saison sèche après août 1991.

## 3. Méthode d'analyse

### (1) Calcul du bilan hydrologique du barrage de BOALI

La fréquence de la pénurie en eau a été étudiée sur la base des conditions requises pour la libération d'eau du barrage de BOALI pour la production d'électricité de 20 $m^3$/sec et 25 $m^3$/sec. Le traitement des données a été fait comme indiqué ci-dessous.

a. Afflux d'eau au barrage comme données d'entrée ou arrivée d'eau journalière Qin (Qi)

1964-1984:

l'arrivée d'eau moyenne mensuelle MUBALI est supposée être l'arrivée d'eau journalière du mois.

(Les données de arrivée d'eau journalière ne sont pas disponibles.)

1985 - oct. 1990:

Arrivée d'eau journalière observée de MUBALI-ICOT utilisée quand disponible et arrivée d'eau calculée par Modèle de réservoir est utilisée pour les périodes sans données d'observation.

Nov. 1990 - oct. 1992:

Le barrage étant en service, le débit ICOT est le débit du barrage. Il n'y a pas de relevés de niveau d'eau du barrage ou bien ils ne sont pas disponibles, aussi Qin ne peut pas être calculé par la méthode suivante (3). A partir des éléments précités, la valeur simulée par Modèle de Réservoir est utilisée comme Qin.

Nov. 1992 - 1998:

Qin dérivé du niveau d'eau du barrage et du débit ICOT (voir (3) ci-dessous) sont sélectionnés.

b. Les précipitations mensuelles (1964-1984) et journalières (1985-1998) à BOSSEMBELE sont utilisées pour estimer les précipitations à la surface du réservoir. Pour les périodes sans observation, les précipitations journalières sont couvertes par corrélation avec celles de BANGUI-MPOKO.

c. L'évaporation de la surface du réservoir a été calculée à partir de l'évaporation moyenne mensuelle (1991, 1992 et 1994) à BOSSEMBELE multipliée par le facteur d'évaporation.

d. L'infiltration est négligée dans l'étude. Le débit ICOT inclut l'eau de surface en provenance du sous-sol et du corps du barrage. L'eau souterraine en provenance de l'eau de stockage du réservoir est considérée être une quantité négligeable. (La méthode suivante de (3) n'exige pas d'élément d'infiltration.)

<u>Formule de base pour le bilan hydrologique</u>

Vj =

où:

| | | |
|---|---|---|
| Vj | : volume d'eau de réserve le jour j ($m^3$) | |
| Vin | : débit d'eau au réservoir ($m^3/d$) | Vin = Qin * 86400 |
| Vout | : débit d'eau du réservoir ($m^3/d$) | Vout = Qout * 86400 |
| P | : précipitation sur le réservoir ($m^3/d$) | P = P (mm) * A/1000 |
| E | : évaporation du réservoir ($m^3/d$) | E = Ke * E (mm) * A/1000 |
| I | : infiltration à partir du réservoir, négligée dans l'étude | |
| Qin, Qi | : débit d'eau au réservoir ($m^3/s$) | |

Qout, Qo : débit d'eau du réservoir ($m^3/s$)

S : surface d'eau du réservoir ($m^2$) A = f (H)

Ke : facteur d'évaporation, 0,8 dans l'étude

WL : niveau d'eau du réservoir (m) WL = H + 548,50

H : profondeur d'eau du réservoir au-dessus de EL 548,50 m(m), H = f (V)

Les relations H-A et H-V sont présentées ci-dessous et sur la Fig. 1.

A = f (H) = 58727 * H^1,98569
V = f (H) = 68163 * H^2,59972
H = f (V) = (V / 68163)^(1 / 2,59972)

Dans le calcul du bilan hydrologique, les données d'entrée sont Qin, P et E et les données de sortie sont Qout et WL.

Qout = Qof + Qv
Qof = 120 * Hof^1,5 ( WL > 572,00 or Hof > 0 )
Qof = 0 ( WL <= 572,00 )
Qg = 0 ( Qof >= Qb )
Qg = Qb – Qof ( Qof < Qb )

Mais quant WL < LWL + 1,00, Qg = Qin

où:

Qof : débordement du déversoir ($m^3/s$)

Qg : flux libéré par vanne de commande ($m^3/s$)

Hof : profondeur d'eau déversée au-dessus du sommet du déversoir (m),

Qb : débit de base, 2 cas 20 $m^3/s$ et 25 $m^3/s$

LWL : niveau d'eau minimum requis pour la production d'électricité: 552,00 m

Dans le calcul d'arrivée d'eau au barrage, Qin est dérivé du relevé de niveau d'eau du réservoir WL, Qout (débit observé à ICOT), P et E.

(2) Analyse de l'écoulement de la rivière MBALI

Pour obtenir le débit journalier à BOALI, une analyse de l'écoulement à long terme et à débit faible a été effectuée sur une période allant de 1985 à 1998.

Supplément de données avant l'achèvement du barrage:

Janvier-juin 1985, février, mars et août 1986, décembre 1988

Estimation de l'arrivée d'eau au barrage:

Novembre 1990 - octobre 1992

La méthode Modèle de Réservoir, qui est largement utilisée et donne de bons résultats, et a une bonne réputation à la fois au Japon et à l'étranger a été sélectionnée. D'après les manuels du Dr. Sugawara, de bons résultats peuvent être obtenus avec 4 réservoirs dans les régions humides comme le Japon et des réservoirs à 4 zones x 4 strates sont recommandés pour les régions semi-arides et les régions à saison sèche. La structure en 4x4 réservoirs a été sélectionnée pour cette étude. Les paramètres définis selon la méthode d'expérimentation systématique sont indiqués sur la Fig.2. Les précipitations journalières comme données d'entrée sont pondérées par les précipitations moyennes de BOSSEMBELE et de BANGUI-M'POKO. La Fig. 3 indique les résultats du calcul par Modèle de Réservoir.

(3) Calcul de l'arrivée d'eau au barrage

Les données de niveau d'eau du bassin pour la période allant de novembre 1992 à la fin 1998 permettent de calculer le volume d'eau stocké et la surface d'eau du réservoir. L'arrivée d'eau au barrage Qin est calculée à partir du niveau d'eau du barrage et du débit du barrage Qout ou de la valeur d'observation ICOT pour ladite période. Bien qu'il soit possible d'utiliser le relevé de débit à la sortie du barrage comme Qout, le débit ICOT est jugé plus fiable (par exemple dans la comparaison des valeurs 1993). L'arrivée d'eau au barrage d'abord calculée est modérée de moyenne sur 5 jours. Le Tableau 1 donne un exemple de fiche de calcul et le Tableau 2 les résultats.

4. Résultats de l'analyse

Le Tableau 3 donne un exemple de fiche de calcul pour le bilan hydrologique du barrage de BOALI pendant 35 ans, de 1964 à 1998, et les résultats sont indiqués sur les Fig. 4 et 5 et résumé dans le Tableau 4, et sur les Fig. 6 et 7. Il n'y a pas de pénurie d'eau en cas de débit de base Qb de 20 $m^3$/sec. Il y a eu pénurie en 1988 et 1990 avec un débit de Qb de 25 $m^3$/sec. Pour le Qb de 20 $m^3$/sec, la période de répétition est estimée à plus de 20-30 ans ou le taux de sécurité a plus de 95% (taux de risque inférieur à 5%). Pour Qb de 20 $m^3$/sec, l'intervalle de récurrence de la pénurie d'eau est considéré de 15-20 ans environ, ou taux de sécurité de plus ou moins 94% (taux de risque: env. 6%).

5. Considération

La simulation du bilan hydrologique de 35 ans, de 1964 à 1998, a mis au clair les points suivants. La première période à la fin des années 1960 est une période à eau abondante avec une dépendance moindre du barrage. Dans les années 1970, Qin est souvent inférieur à Qb, mais le niveau d'eau du réservoir ne baisse pas tellement. Dans les années 1980, l'écoulement

ainsi que les précipitations dans le bassin ont considérablement diminué, ce qui s'est traduit par une nette tendance aux pénuries d'eau et aux sécheresses. Le niveau d'eau du barrage descend souvent assez bas. Le rétablissement après les sécheresses a été réalisé dans une certaine mesure dans les années 1990.

Le calibrage du Modèle de Réservoir a permis de découvrir des années adaptées et des années moins adaptées. Mais cela est jugé inévitable, parce qu'il n'existe qu'une seule station d'observation pluviométrique dans ce grand bassin et qu'il y a une autre station éloignée du bassin parmi les stations d'observation pluviométrique qui ont normalement de données utiles et disponibles. Pour décider de la structure du modèle et des paramètres, l'accent a été mis sur l'adaptation aux conditions hydrographiques de la période de sécheresse, qui influence le plus la baisse de niveau d'eau du barrage.

Tableau 1 Exemple de calcul d'arrivée d'eau au barrage de Boali(1993)

Arrivée d'eau (Qin) au barrage de Boali dérivée du niveau d'eau du réservoir et du débit (Q-Icot)

Year : 1993

| Month | Date | WL | V | dV | Q-ICOT | Vout | A | P | E | Vin | Qin | Qin(mv.av.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | m | $10^3m^3$ | $10^3m^3$ | $m^3/s$ | $10^3m^3$ | $10^3m^3$ | $10^3m^3$ | $10^3m^3$ | $10^3m^3$ | $m^3/s$ | $m^3/s$ |
| | | 572.40 | 261,215 | | | | 32,056 | | | | Qi-c | |
| Jan. | 1 | 572.39 | 260,930 | -284 | 30.9 | 2,670 | 32,029 | 0 | 128 | 2,514 | 29.1 | 28.2 |
| | 2 | 572.39 | 260,930 | 0 | 30.8 | 2,661 | 32,029 | 0 | 128 | 2,789 | 32.3 | 29.3 |
| | 3 | 572.39 | 260,930 | 0 | 30.3 | 2,618 | 32,029 | 0 | 128 | 2,746 | 31.8 | 31.3 |
| | 4 | 572.39 | 260,930 | 0 | 30.2 | 2,609 | 32,029 | 0 | 128 | 2,737 | 31.7 | 31.7 |
| | 5 | 572.39 | 260,930 | 0 | 30.1 | 2,601 | 32,029 | 0 | 128 | 2,729 | 31.6 | 30.7 |
| | 6 | 572.39 | 260,930 | 0 | 29.6 | 2,557 | 32,029 | 0 | 128 | 2,686 | 31.1 | 29.6 |
| | 7 | 572.38 | 260,647 | -284 | 29.4 | 2,540 | 32,003 | 0 | 128 | 2,384 | 27.6 | 28.8 |
| | 8 | 572.37 | 260,363 | -284 | 27.7 | 2,393 | 31,976 | 0 | 128 | 2,238 | 25.9 | 27.3 |
| | 9 | 572.37 | 260,363 | 0 | 26.5 | 2,290 | 31,976 | 0 | 128 | 2,418 | 28.0 | 26.4 |
| | 10 | 572.36 | 260,079 | -283 | 25.8 | 2,229 | 31,950 | 0 | 128 | 2,074 | 24.0 | 25.4 |
| | 11 | 572.36 | 260,079 | 0 | 25.1 | 2,169 | 31,950 | 0 | 128 | 2,296 | 26.6 | 24.8 |
| | 12 | 572.35 | 259,796 | -283 | 24.5 | 2,117 | 31,923 | 0 | 128 | 1,961 | 22.7 | 24.3 |
| | 13 | 572.34 | 259,513 | -283 | 24.4 | 2,108 | 31,896 | 0 | 128 | 1,953 | 22.6 | 24.6 |
| | 14 | 572.34 | 259,513 | 0 | 24.3 | 2,100 | 31,896 | 0 | 128 | 2,227 | 25.8 | 24.3 |
| | 15 | 572.34 | 259,513 | 0 | 23.8 | 2,056 | 31,896 | 0 | 128 | 2,184 | 25.3 | 24.1 |
| | 16 | 572.34 | 259,513 | 0 | 23.7 | 2,048 | 31,896 | 0 | 128 | 2,175 | 25.2 | 24.5 |
| | 17 | 572.33 | 259,230 | -283 | 23.6 | 2,039 | 31,870 | 0 | 128 | 1,884 | 21.8 | 24.3 |
| | 18 | 572.33 | 259,230 | 0 | 23.1 | 1,996 | 31,870 | 0 | 127 | 2,123 | 24.6 | 24.0 |
| | 19 | 572.33 | 259,230 | 0 | 23.0 | 1,987 | 31,870 | 0 | 127 | 2,115 | 24.5 | 23.7 |
| | 20 | 572.33 | 259,230 | 0 | 22.4 | 1,935 | 31,870 | 0 | 127 | 2,063 | 23.9 | 23.3 |
| | 21 | 572.33 | 259,230 | 0 | 22.3 | 1,927 | 31,870 | 0 | 127 | 2,054 | 23.8 | 23.0 |
| | 22 | 572.32 | 258,947 | -283 | 21.8 | 1,884 | 31,843 | 0 | 127 | 1,728 | 20.0 | 22.0 |
| | 23 | 572.32 | 258,947 | 0 | 21.6 | 1,866 | 31,843 | 0 | 127 | 1,994 | 23.1 | 21.7 |
| | 24 | 572.31 | 258,665 | -283 | 21.1 | 1,823 | 31,817 | 0 | 127 | 1,668 | 19.3 | 20.3 |
| | 25 | 572.31 | 258,665 | 0 | 20.8 | 1,797 | 31,817 | 0 | 127 | 1,924 | 22.3 | 20.1 |
| | 26 | 572.30 | 258,383 | -282 | 18.5 | 1,598 | 31,790 | 0 | 127 | 1,443 | 16.7 | 19.5 |
| | 27 | 572.30 | 258,383 | 0 | 17.8 | 1,538 | 31,790 | 0 | 127 | 1,665 | 19.3 | 19.6 |
| | 28 | 572.30 | 258,383 | 0 | 18.3 | 1,581 | 31,790 | 0 | 127 | 1,708 | 19.8 | 18.3 |
| | 29 | 572.30 | 258,383 | 0 | 18.3 | 1,581 | 31,790 | 0 | 127 | 1,708 | 19.8 | 18.8 |
| | 30 | 572.29 | 258,101 | -282 | 17.7 | 1,529 | 31,764 | 0 | 127 | 1,374 | 15.9 | 16.5 |
| | 31 | 572.29 | 258,101 | 0 | 17.7 | 1,529 | 31,764 | 0 | 127 | 1,656 | 19.2 | 17.0 |
| Feb. | 1 | 572.29 | 258,101 | 0 | 17.7 | 1,529 | 31,764 | 978 | 127 | 678 | 7.8 | 18.4 |
| | 2 | 572.29 | 258,101 | 0 | 23.1 | 1,996 | 31,764 | 178 | 127 | 1,945 | 22.5 | 18.9 |
| | 3 | 572.30 | 258,383 | 282 | 21.7 | 1,875 | 31,790 | 0 | 127 | 2,284 | 26.4 | 19.6 |
| | 4 | 572.29 | 258,101 | -282 | 21.1 | 1,823 | 31,764 | 57 | 127 | 1,611 | 18.6 | 22.5 |
| | 5 | 572.29 | 258,101 | 0 | 21.0 | 1,814 | 31,764 | 0 | 127 | 1,941 | 22.5 | 21.8 |
| | 6 | 572.29 | 258,101 | 0 | 21.0 | 1,814 | 31,764 | 0 | 127 | 1,941 | 22.5 | 20.2 |
| | 7 | 572.28 | 257,819 | -282 | 20.9 | 1,806 | 31,737 | 0 | 127 | 1,651 | 19.1 | 20.7 |
| | 8 | 572.27 | 257,537 | -282 | 20.3 | 1,754 | 31,711 | 0 | 127 | 1,599 | 18.5 | 19.7 |
| | 9 | 572.27 | 257,537 | 0 | 19.6 | 1,693 | 31,711 | 0 | 127 | 1,820 | 21.1 | 19.1 |
| | 10 | 572.26 | 257,255 | -282 | 18.9 | 1,633 | 31,684 | 0 | 127 | 1,478 | 17.1 | 18.6 |
| | 11 | 572.26 | 257,255 | 0 | 18.3 | 1,581 | 31,684 | 0 | 127 | 1,708 | 19.8 | 19.1 |
| | 12 | 572.25 | 256,974 | -281 | 18.3 | 1,581 | 31,658 | 0 | 127 | 1,426 | 16.5 | 18.0 |
| | 13 | 572.25 | 257,086 | 113 | 18.3 | 1,581 | 31,668 | 0 | 127 | 1,820 | 21.1 | 17.9 |
| | 14 | 572.24 | 256,693 | -394 | 18.8 | 1,624 | 31,631 | 0 | 127 | 1,357 | 15.7 | 17.9 |
| | 15 | 572.23 | 256,412 | -281 | 18.3 | 1,581 | 31,605 | 0 | 127 | 1,427 | 16.5 | 17.8 |
| | 16 | 572.23 | 256,412 | 0 | 18.3 | 1,581 | 31,605 | 0 | 126 | 1,708 | 19.8 | 16.4 |
| | 17 | 572.22 | 256,131 | -281 | 17.6 | 1,521 | 31,578 | 0 | 126 | 1,366 | 15.8 | 19.0 |
| | 18 | 572.20 | 255,570 | -561 | 19.2 | 1,659 | 31,525 | 0 | 126 | 1,224 | 14.2 | 19.3 |
| | 19 | 572.22 | 256,131 | 561 | 20.8 | 1,797 | 31,578 | 0 | 126 | 2,484 | 28.8 | 18.8 |
| | 20 | 572.21 | 255,850 | -281 | 19.7 | 1,702 | 31,552 | 0 | 126 | 1,548 | 17.9 | 19.4 |
| | 21 | 572.20 | 255,570 | -280 | 18.9 | 1,633 | 31,525 | 0 | 126 | 1,479 | 17.1 | 19.9 |
| | 22 | 572.20 | 255,570 | 0 | 17.7 | 1,529 | 31,525 | 0 | 126 | 1,655 | 19.2 | 17.5 |
| | 23 | 572.19 | 255,290 | -280 | 18.3 | 1,581 | 31,499 | 0 | 126 | 1,427 | 16.5 | 16.6 |
| | 24 | 572.18 | 255,009 | -280 | 18.7 | 1,616 | 31,473 | 0 | 126 | 1,462 | 16.9 | 17.1 |
| | 25 | 572.16 | 254,450 | -560 | 18.3 | 1,581 | 31,420 | 0 | 126 | 1,147 | 13.3 | 16.4 |
| | 26 | 572.16 | 254,450 | 0 | 18.0 | 1,555 | 31,420 | 0 | 126 | 1,681 | 19.5 | 16.2 |
| | 27 | 572.15 | 254,170 | -279 | 17.7 | 1,529 | 31,394 | 0 | 126 | 1,375 | 15.9 | 15.2 |
| | 28 | 572.14 | 253,891 | -279 | 17.2 | 1,486 | 31,367 | 0 | 126 | 1,332 | 15.4 | 15.5 |
| Mar. | 1 | 572.12 | 253,333 | -558 | 17.0 | 1,469 | 31,315 | 0 | 125 | 1,036 | 12.0 | 15.6 |
| | 2 | 572.11 | 253,054 | -279 | 18.6 | 1,607 | 31,288 | 191 | 125 | 1,263 | 14.6 | 15.0 |
| | 3 | 572.11 | 253,054 | 0 | 18.6 | 1,607 | 31,288 | 0 | 125 | 1,732 | 20.0 | 14.7 |
| | 4 | 572.09 | 252,497 | -557 | 18.0 | 1,555 | 31,236 | 0 | 125 | 1,123 | 13.0 | 15.4 |
| | 5 | 572.07 | 251,941 | -556 | 19.0 | 1,642 | 31,183 | 0 | 125 | 1,210 | 14.0 | 15.2 |
| | 6 | 572.05 | 251,386 | -555 | 20.2 | 1,745 | 31,131 | 0 | 125 | 1,315 | 15.2 | 7.8 |
| | 7 | 572.03 | 250,831 | -555 | 18.7 | 1,616 | 31,078 | 0 | 125 | 1,186 | 13.7 | 9.2 |
| | 8 | 572.02 | 250,554 | -277 | 18.1 | 1,564 | 31,052 | 2,859 | 124 | -1,448 | -16.8 | 9.8 |
| | 9 | 572.02 | 250,554 | 0 | 18.6 | 1,607 | 31,052 | 0 | 124 | 1,731 | 20.0 | 10.0 |
| | 10 | 572.01 | 250,277 | -277 | 18.5 | 1,598 | 31,026 | 0 | 124 | 1,446 | 16.7 | 11.0 |
| | 11 | 572.00 | 250,001 | -277 | 18.0 | 1,555 | 30,999 | 0 | 124 | 1,403 | 16.2 | 17.0 |
| | 12 | 572.00 | 250,001 | 0 | 17.2 | 1,486 | 30,999 | 0 | 124 | 1,610 | 18.6 | 14.6 |
| | 13 | 571.99 | 249,724 | -276 | 15.2 | 1,313 | 30,973 | 0 | 124 | 1,161 | 13.4 | 13.9 |

Year : 1993

| Month | Date | WL | V | dV | Q-ICOT | Vout | A | P | E | Vin | Qin | Qin(mv.av.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | m | $10^3m^3$ | $10^3m^3$ | $m^3/s$ | $10^3m^3$ | $10^3m^2$ | $10^3m^3$ | $10^3m^3$ | $10^3m^3$ | $m^3/s$ | $m^3/s$ |
| | 14 | 571.97 | 249,172 | -552 | 13.1 | 1,132 | 30,921 | 0 | 124 | 703 | 8.1 | 13.4 |
| | 15 | 571.97 | 249,172 | 0 | 11.7 | 1,011 | 30,921 | 0 | 124 | 1,135 | 13.1 | 13.5 |
| | 16 | 571.96 | 248,896 | -276 | 15.7 | 1,356 | 30,895 | 37 | 124 | 1,167 | 13.5 | 12.6 |
| | 17 | 571.96 | 248,896 | 0 | 17.8 | 1,538 | 30,895 | 0 | 124 | 1,661 | 19.2 | 14.7 |
| | 18 | 571.93 | 248,069 | -827 | 17.0 | 1,469 | 30,816 | 0 | 124 | 766 | 8.9 | 14.8 |
| | 19 | 571.93 | 248,069 | 0 | 17.1 | 1,477 | 30,816 | 0 | 123 | 1,601 | 18.5 | 15.4 |
| | 20 | 571.91 | 247,519 | -550 | 18.6 | 1,607 | 30,764 | 0 | 123 | 1,180 | 13.7 | 14.0 |
| | 21 | 571.90 | 247,244 | -275 | 18.3 | 1,581 | 30,738 | 0 | 123 | 1,429 | 16.5 | 14.7 |
| | 22 | 571.88 | 246,695 | -549 | 17.3 | 1,495 | 30,686 | 0 | 123 | 1,069 | 12.4 | 14.8 |
| | 23 | 571.86 | 246,147 | -548 | 17.1 | 1,477 | 30,634 | 0 | 123 | 1,052 | 12.2 | 13.9 |
| | 24 | 571.86 | 246,147 | 0 | 17.9 | 1,547 | 30,634 | 0 | 123 | 1,669 | 19.3 | 13.9 |
| | 25 | 571.83 | 245,326 | -821 | 17.0 | 1,469 | 30,556 | 0 | 123 | 770 | 8.9 | 13.6 |
| | 26 | 571.82 | 245,053 | -273 | 18.5 | 1,598 | 30,530 | 0 | 122 | 1,447 | 16.8 | 14.0 |
| | 27 | 571.79 | 244,234 | -819 | 18.9 | 1,633 | 30,452 | 0 | 122 | 936 | 10.8 | 12.9 |
| | 28 | 571.78 | 243,962 | -273 | 15.9 | 1,374 | 30,426 | 0 | 122 | 1,223 | 14.2 | 13.1 |
| | 29 | 571.76 | 243,417 | -544 | 18.8 | 1,624 | 30,374 | 0 | 122 | 1,202 | 13.9 | 12.2 |
| | 30 | 571.74 | 242,873 | -544 | 17.6 | 1,521 | 30,322 | 231 | 121 | 868 | 10.0 | 12.2 |
| | 31 | 571.72 | 242,330 | -543 | 17.0 | 1,469 | 30,270 | 0 | 121 | 1,047 | 12.1 | 11.5 |
| Apr. | 1 | 571.70 | 241,788 | -542 | 16.0 | 1,382 | 30,219 | 0 | 97 | 937 | 10.8 | 9.7 |
| | 2 | 571.68 | 241,247 | -542 | 15.5 | 1,339 | 30,167 | 0 | 97 | 894 | 10.4 | 9.4 |
| | 3 | 571.65 | 240,436 | -811 | 17.5 | 1,512 | 30,089 | 338 | 97 | 460 | 5.3 | 9.7 |
| | 4 | 571.63 | 239,896 | -540 | 13.6 | 1,175 | 30,038 | 0 | 96 | 732 | 8.5 | 9.4 |
| | 5 | 571.62 | 239,627 | -270 | 15.7 | 1,356 | 30,012 | 0 | 96 | 1,183 | 13.7 | 11.3 |
| | 6 | 571.61 | 239,357 | -269 | 19.3 | 1,668 | 29,986 | 723 | 96 | 771 | 8.9 | 12.2 |
| | 7 | 571.61 | 239,357 | 0 | 19.5 | 1,685 | 29,986 | 42 | 96 | 1,739 | 20.1 | 15.0 |
| | 8 | 571.58 | 238,550 | -807 | 18.2 | 1,572 | 29,909 | 21 | 96 | 841 | 9.7 | 16.1 |
| | 9 | 571.59 | 238,819 | 269 | 19.8 | 1,711 | 29,935 | 108 | 96 | 1,968 | 22.8 | 17.2 |
| | 10 | 571.58 | 238,550 | -269 | 21.0 | 1,814 | 29,909 | 0 | 96 | 1,641 | 19.0 | 15.5 |
| | 11 | 571.58 | 238,550 | 0 | 20.8 | 1,797 | 29,909 | 661 | 96 | 1,232 | 14.3 | 17.4 |
| | 12 | 571.55 | 237,745 | -805 | 19.9 | 1,719 | 29,832 | 0 | 96 | 1,010 | 11.7 | 16.1 |
| | 13 | 571.54 | 237,477 | -268 | 21.4 | 1,849 | 29,806 | 0 | 95 | 1,676 | 19.4 | 15.5 |
| | 14 | 571.52 | 236,942 | -536 | 21.1 | 1,823 | 29,755 | 0 | 95 | 1,383 | 16.0 | 15.2 |
| | 15 | 571.50 | 236,407 | -535 | 21.0 | 1,814 | 29,703 | 0 | 95 | 1,375 | 15.9 | 16.6 |
| | 16 | 571.47 | 235,606 | -801 | 21.0 | 1,814 | 29,627 | 6 | 95 | 1,103 | 12.8 | 13.9 |
| | 17 | 571.46 | 235,339 | -267 | 21.0 | 1,814 | 29,601 | 0 | 95 | 1,643 | 19.0 | 16.5 |
| | 18 | 571.42 | 234,275 | -1,064 | 20.8 | 1,797 | 29,499 | 343 | 95 | 484 | 5.6 | 17.4 |
| | 19 | 571.45 | 235,073 | 798 | 19.1 | 1,650 | 29,575 | 0 | 94 | 2,543 | 29.4 | 17.0 |
| | 20 | 571.45 | 235,073 | 0 | 18.9 | 1,633 | 29,575 | 0 | 95 | 1,728 | 20.0 | 15.9 |
| | 21 | 571.42 | 234,275 | -798 | 18.9 | 1,633 | 29,499 | 0 | 95 | 930 | 10.8 | 18.2 |
| | 22 | 571.40 | 233,744 | -531 | 18.9 | 1,633 | 29,448 | 0 | 94 | 1,196 | 13.8 | 14.9 |
| | 23 | 571.39 | 233,479 | -265 | 18.9 | 1,633 | 29,422 | 0 | 94 | 1,462 | 16.9 | 15.4 |
| | 24 | 571.38 | 233,214 | -265 | 18.6 | 1,607 | 29,397 | 327 | 94 | 1,110 | 12.8 | 15.9 |
| | 25 | 571.40 | 233,744 | 530 | 15.4 | 1,331 | 29,448 | 0 | 94 | 1,955 | 22.6 | 15.9 |
| | 26 | 571.38 | 233,214 | -530 | 18.1 | 1,564 | 29,397 | 0 | 94 | 1,128 | 13.1 | 15.1 |
| | 27 | 571.36 | 232,684 | -530 | 19.0 | 1,642 | 29,346 | 0 | 94 | 1,206 | 14.0 | 17.0 |
| | 28 | 571.34 | 232,155 | -529 | 20.8 | 1,797 | 29,295 | 232 | 94 | 1,130 | 13.1 | 15.6 |
| | 29 | 571.34 | 232,155 | 0 | 21.0 | 1,814 | 29,295 | 0 | 94 | 1,908 | 22.1 | 16.8 |
| | 30 | 571.32 | 231,627 | -528 | 21.0 | 1,814 | 29,244 | 0 | 94 | 1,380 | 16.0 | 16.6 |
| May | 1 | 571.31 | 231,363 | -264 | 21.0 | 1,814 | 29,218 | 0 | 94 | 1,644 | 19.0 | 17.1 |
| | 2 | 571.28 | 230,573 | -790 | 21.0 | 1,814 | 29,142 | 0 | 93 | 1,118 | 12.9 | 16.1 |
| | 3 | 571.27 | 230,310 | -263 | 20.0 | 1,728 | 29,117 | 239 | 93 | 1,319 | 15.3 | 16.5 |
| | 4 | 571.26 | 230,047 | -263 | 19.5 | 1,685 | 29,091 | 0 | 93 | 1,515 | 17.5 | 15.0 |
| | 5 | 571.25 | 229,784 | -263 | 19.6 | 1,693 | 29,066 | 0 | 93 | 1,524 | 17.6 | 14.7 |
| | 6 | 571.22 | 228,997 | -787 | 19.6 | 1,693 | 28,990 | 0 | 93 | 1,000 | 11.6 | 21.3 |
| | 7 | 571.19 | 228,212 | -785 | 19.6 | 1,693 | 28,914 | 0 | 93 | 1,001 | 11.6 | 14.0 |
| | 8 | 571.28 | 230,573 | 2,361 | 19.6 | 1,693 | 29,142 | 0 | 93 | 4,147 | 48.0 | 10.3 |
| | 9 | 571.15 | 227,168 | -3,405 | 19.5 | 1,685 | 28,813 | 0 | 93 | -1,627 | -18.8 | 11.4 |
| | 10 | 571.13 | 226,647 | -521 | 19.0 | 1,642 | 28,762 | 1,282 | 92 | -69 | -0.8 | 11.3 |
| | 11 | 571.12 | 226,386 | -260 | 18.9 | 1,633 | 28,737 | 0 | 92 | 1,465 | 17.0 | 4.4 |
| | 12 | 571.09 | 225,607 | -780 | 18.9 | 1,633 | 28,661 | 0 | 92 | 945 | 10.9 | 11.6 |
| | 13 | 571.07 | 225,088 | -519 | 18.9 | 1,633 | 28,611 | 0 | 92 | 1,206 | 14.0 | 13.3 |
| | 14 | 571.06 | 224,829 | -259 | 18.9 | 1,633 | 28,586 | 0 | 92 | 1,465 | 17.0 | 14.5 |
| | 15 | 571.02 | 223,794 | -1,035 | 18.9 | 1,633 | 28,485 | 26 | 91 | 664 | 7.7 | 15.1 |
| | 16 | 571.03 | 224,052 | 258 | 18.9 | 1,633 | 28,510 | 0 | 91 | 1,983 | 22.9 | 15.1 |
| | 17 | 571.01 | 223,535 | -517 | 18.7 | 1,616 | 28,460 | 0 | 91 | 1,190 | 13.8 | 14.9 |
| | 18 | 570.99 | 223,019 | -516 | 20.2 | 1,745 | 28,410 | 85 | 91 | 1,235 | 14.3 | 16.3 |
| | 19 | 570.97 | 222,504 | -515 | 20.9 | 1,806 | 28,360 | 0 | 91 | 1,381 | 16.0 | 14.4 |
| | 20 | 570.95 | 221,990 | -514 | 21.0 | 1,814 | 28,310 | 122 | 91 | 1,269 | 14.7 | 14.8 |
| | 21 | 570.92 | 221,219 | -770 | 21.0 | 1,814 | 28,235 | 0 | 91 | 1,135 | 13.1 | 14.6 |
| | 22 | 570.90 | 220,707 | -513 | 21.0 | 1,814 | 28,185 | 0 | 90 | 1,392 | 16.1 | 14.9 |
| | 23 | 570.87 | 219,939 | -768 | 21.0 | 1,814 | 28,110 | 25 | 90 | 1,112 | 12.9 | 14.4 |
| | 24 | 570.86 | 219,684 | -256 | 20.9 | 1,806 | 28,085 | 124 | 90 | 1,517 | 17.6 | 14.9 |
| | 25 | 570.83 | 218,918 | -765 | 20.4 | 1,763 | 28,010 | 0 | 90 | 1,087 | 12.6 | 14.5 |
| | 26 | 570.81 | 218,409 | -509 | 20.3 | 1,754 | 27,960 | 0 | 90 | 1,334 | 15.4 | 15.5 |
| | 27 | 570.79 | 217,900 | -509 | 20.3 | 1,754 | 27,910 | 137 | 89 | 1,198 | 13.9 | 14.6 |

Year : 1993

| Month | Date | WL | V | dV | Q-100T | Vout | A | P | E | Vin | Qin | Qin(mv.av.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | m | $10^3m^3$ | $10^3m^3$ | $m^3/s$ | $10^3m^3$ | $10^3m^3$ | $10^3m^3$ | $10^3m^3$ | $10^3m^3$ | $m^3/s$ | $m^3/s$ |
| | 28 | 570.78 | 217,646 | -254 | 20.3 | 1,754 | 27,886 | 17 | 89 | 1,572 | 18.2 | 15.7 |
| | 29 | 570.76 | 217,138 | -508 | 20.3 | 1,754 | 27,836 | 237 | 89 | 1,099 | 12.7 | 17.2 |
| | 30 | 570.75 | 216,885 | -254 | 20.3 | 1,754 | 27,811 | 8 | 89 | 1,581 | 18.3 | 17.3 |
| | 31 | 570.76 | 217,138 | 254 | 20.3 | 1,754 | 27,836 | 136 | 89 | 1,960 | 22.7 | 18.3 |
| June | 1 | 570.74 | 216,632 | -507 | 20.2 | 1,745 | 27,786 | 50 | 89 | 1,277 | 14.8 | 20.6 |
| | 2 | 570.75 | 216,885 | 253 | 20.2 | 1,745 | 27,811 | 83 | 89 | 2,004 | 23.2 | 21.8 |
| | 3 | 570.76 | 217,138 | 254 | 20.2 | 1,745 | 27,836 | 0 | 89 | 2,088 | 24.2 | 19.8 |
| | 4 | 570.77 | 217,392 | 254 | 20.2 | 1,745 | 27,861 | 0 | 89 | 2,088 | 24.2 | 19.9 |
| | 5 | 570.77 | 217,392 | 0 | 20.2 | 1,745 | 27,861 | 744 | 89 | 1,091 | 12.6 | 19.3 |
| | 6 | 570.76 | 217,138 | -254 | 20.2 | 1,745 | 27,836 | 242 | 89 | 1,338 | 15.5 | 18.6 |
| | 7 | 570.76 | 217,138 | 0 | 20.2 | 1,745 | 27,836 | 100 | 89 | 1,734 | 20.1 | 17.7 |
| | 8 | 570.76 | 217,138 | 0 | 19.9 | 1,719 | 27,836 | 39 | 89 | 1,769 | 20.5 | 19.1 |
| | 9 | 570.76 | 217,138 | 0 | 19.0 | 1,642 | 27,836 | 22 | 89 | 1,708 | 19.8 | 21.2 |
| | 10 | 570.76 | 217,138 | 0 | 18.9 | 1,633 | 27,836 | 42 | 89 | 1,680 | 19.4 | 23.4 |
| | 11 | 570.79 | 217,900 | 762 | 18.9 | 1,633 | 27,910 | 231 | 89 | 2,253 | 26.1 | 22.7 |
| | 12 | 570.83 | 218,918 | 1,018 | 18.9 | 1,633 | 28,010 | 25 | 89 | 2,715 | 31.4 | 20.0 |
| | 13 | 570.82 | 218,663 | -255 | 18.9 | 1,633 | 27,985 | 0 | 90 | 1,468 | 17.0 | 20.9 |
| | 14 | 570.81 | 218,409 | -255 | 18.9 | 1,633 | 27,960 | 957 | 90 | 511 | 5.9 | 20.0 |
| | 15 | 570.83 | 218,918 | 509 | 18.9 | 1,633 | 28,010 | 159 | 89 | 2,072 | 24.0 | 18.9 |
| | 16 | 570.85 | 219,428 | 510 | 18.3 | 1,581 | 28,060 | 300 | 90 | 1,881 | 21.8 | 21.7 |
| | 17 | 570.87 | 219,939 | 511 | 19.7 | 1,702 | 28,110 | 56 | 90 | 2,247 | 26.0 | 26.2 |
| | 18 | 570.90 | 220,707 | 768 | 21.1 | 1,823 | 28,185 | 0 | 90 | 2,681 | 31.0 | 28.8 |
| | 19 | 570.93 | 221,476 | 769 | 21.6 | 1,866 | 28,260 | 268 | 90 | 2,458 | 28.4 | 31.1 |
| | 20 | 570.98 | 222,762 | 1,286 | 21.0 | 1,814 | 28,385 | 0 | 90 | 3,191 | 36.9 | 33.2 |
| | 21 | 571.02 | 223,794 | 1,032 | 21.0 | 1,814 | 28,485 | 94 | 91 | 2,843 | 32.9 | 33.2 |
| | 22 | 571.07 | 225,088 | 1,294 | 21.7 | 1,875 | 28,611 | 71 | 91 | 3,189 | 36.9 | 34.5 |
| | 23 | 571.12 | 226,386 | 1,299 | 14.8 | 1,279 | 28,737 | 0 | 92 | 2,669 | 30.9 | 32.9 |
| | 24 | 571.16 | 227,429 | 1,042 | 21.5 | 1,858 | 28,838 | 0 | 92 | 2,992 | 34.6 | 32.0 |
| | 25 | 571.19 | 228,212 | 784 | 19.1 | 1,650 | 28,914 | 0 | 92 | 2,526 | 29.2 | 30.4 |
| | 26 | 571.22 | 228,997 | 785 | 18.3 | 1,581 | 28,990 | 0 | 93 | 2,459 | 28.5 | 28.8 |
| | 27 | 571.25 | 229,784 | 787 | 18.9 | 1,633 | 29,066 | 17 | 93 | 2,495 | 28.9 | 25.8 |
| | 28 | 571.26 | 230,047 | 263 | 18.9 | 1,633 | 29,091 | 29 | 93 | 1,960 | 22.7 | 21.1 |
| | 29 | 571.26 | 230,047 | 0 | 18.9 | 1,633 | 29,091 | 0 | 93 | 1,726 | 20.0 | 19.9 |
| | 30 | 571.26 | 230,047 | 0 | 18.9 | 1,633 | 29,091 | 1,260 | 93 | 466 | 5.4 | 17.9 |
| Jul. | 1 | 571.27 | 230,310 | 263 | 18.9 | 1,633 | 29,117 | 0 | 70 | 1,966 | 22.8 | 19.7 |
| | 2 | 571.27 | 230,310 | 0 | 18.9 | 1,633 | 29,117 | 96 | 70 | 1,607 | 18.6 | 19.1 |
| | 3 | 571.31 | 231,363 | 1,053 | 18.9 | 1,633 | 29,218 | 0 | 70 | 2,756 | 31.9 | 26.2 |
| | 4 | 571.31 | 231,363 | 0 | 18.9 | 1,633 | 29,218 | 245 | 70 | 1,458 | 16.9 | 26.8 |
| | 5 | 571.38 | 233,214 | 1,850 | 18.9 | 1,633 | 29,397 | 12 | 70 | 3,542 | 41.0 | 30.1 |
| | 6 | 571.40 | 233,744 | 530 | 18.9 | 1,633 | 29,448 | 0 | 71 | 2,234 | 25.9 | 27.5 |
| | 7 | 571.45 | 235,073 | 1,329 | 18.9 | 1,633 | 29,575 | 0 | 71 | 3,033 | 35.1 | 31.8 |
| | 8 | 571.50 | 236,407 | 1,334 | 18.9 | 1,633 | 29,703 | 1,417 | 71 | 1,621 | 18.8 | 27.0 |
| | 9 | 571.56 | 238,013 | 1,607 | 18.9 | 1,633 | 29,858 | 3 | 71 | 3,308 | 38.3 | 28.2 |
| | 10 | 571.59 | 238,819 | 806 | 18.9 | 1,633 | 29,935 | 1,063 | 72 | 1,448 | 16.8 | 29.5 |
| | 11 | 571.63 | 239,896 | 1,077 | 18.9 | 1,633 | 30,038 | 0 | 72 | 2,782 | 32.2 | 31.7 |
| | 12 | 571.70 | 241,788 | 1,892 | 18.9 | 1,633 | 30,219 | 18 | 72 | 3,579 | 41.4 | 27.8 |
| | 13 | 571.76 | 243,417 | 1,629 | 18.9 | 1,633 | 30,374 | 768 | 73 | 2,567 | 29.7 | 32.8 |
| | 14 | 571.83 | 245,326 | 1,909 | 18.9 | 1,633 | 30,556 | 1,989 | 73 | 1,625 | 18.8 | 36.2 |
| | 15 | 571.90 | 247,244 | 1,918 | 18.9 | 1,633 | 30,738 | 0 | 73 | 3,625 | 42.0 | 35.7 |
| | 16 | 571.99 | 249,724 | 2,480 | 19.7 | 1,702 | 30,973 | 0 | 74 | 4,256 | 49.3 | 40.8 |
| | 17 | 572.06 | 251,663 | 1,939 | 22.1 | 1,909 | 31,157 | 579 | 74 | 3,344 | 38.7 | 53.0 |
| | 18 | 572.15 | 254,170 | 2,507 | 26.9 | 2,324 | 31,394 | 128 | 75 | 4,778 | 55.3 | 48.5 |
| | 19 | 572.33 | 259,230 | 5,060 | 20.3 | 1,754 | 31,870 | 0 | 75 | 6,889 | 79.7 | 47.9 |
| | 20 | 572.32 | 258,947 | -283 | 22.1 | 1,909 | 31,843 | 16 | 76 | 1,687 | 19.5 | 54.7 |
| | 21 | 572.37 | 260,363 | 1,415 | 31.2 | 2,696 | 31,976 | 210 | 76 | 3,977 | 46.0 | 57.1 |
| | 22 | 572.47 | 263,208 | 2,845 | 39.6 | 3,421 | 32,243 | 42 | 77 | 6,302 | 72.9 | 56.9 |
| | 23 | 572.53 | 264,924 | 1,716 | 49.2 | 4,251 | 32,403 | 222 | 77 | 5,822 | 67.4 | 66.4 |
| | 24 | 572.60 | 266,935 | 2,011 | 56.5 | 4,882 | 32,591 | 188 | 78 | 6,782 | 78.5 | 71.5 |
| | 25 | 572.63 | 267,800 | 865 | 61.4 | 5,305 | 32,671 | 430 | 78 | 5,818 | 67.3 | 70.3 |
| | 26 | 572.65 | 268,377 | 577 | 64.3 | 5,556 | 32,725 | 65 | 78 | 6,146 | 71.1 | 69.7 |
| | 27 | 572.65 | 268,377 | 0 | 66.3 | 5,728 | 32,725 | 0 | 79 | 5,807 | 67.2 | 66.3 |
| | 28 | 572.65 | 268,377 | 0 | 65.5 | 5,659 | 32,725 | 177 | 79 | 5,561 | 64.4 | 67.5 |
| | 29 | 572.65 | 268,377 | 0 | 65.0 | 5,616 | 32,725 | 399 | 79 | 5,295 | 61.3 | 66.6 |
| | 30 | 572.67 | 268,956 | 578 | 66.0 | 5,702 | 32,779 | 0 | 79 | 6,359 | 73.6 | 67.1 |
| | 31 | 572.68 | 269,245 | 289 | 67.7 | 5,849 | 32,806 | 456 | 79 | 5,762 | 66.7 | 71.1 |
| Aug. | 1 | 572.68 | 269,245 | 0 | 69.0 | 5,962 | 32,806 | 16 | 79 | 6,024 | 69.7 | 73.2 |
| | 2 | 572.71 | 270,114 | 869 | 73.2 | 6,324 | 32,887 | 0 | 79 | 7,273 | 84.2 | 77.3 |
| | 3 | 572.72 | 270,404 | 290 | 76.5 | 6,610 | 32,914 | 779 | 79 | 6,199 | 71.8 | 80.9 |
| | 4 | 572.75 | 271,276 | 872 | 83.0 | 7,171 | 32,995 | 3 | 79 | 8,119 | 94.0 | 82.5 |
| | 5 | 572.76 | 271,567 | 291 | 80.8 | 6,981 | 33,022 | 0 | 79 | 7,351 | 85.1 | 78.4 |
| | 6 | 572.75 | 271,276 | -291 | 79.9 | 6,903 | 32,995 | 0 | 79 | 6,692 | 77.5 | 75.5 |
| | 7 | 572.75 | 271,276 | 0 | 79.5 | 6,869 | 32,995 | 1,458 | 79 | 5,490 | 63.5 | 72.8 |
| | 8 | 572.75 | 271,276 | 0 | 69.7 | 6,022 | 32,995 | 1,128 | 79 | 4,973 | 57.6 | 72.1 |
| | 9 | 572.75 | 271,276 | 0 | 80.8 | 6,981 | 32,995 | 102 | 79 | 6,958 | 80.5 | 72.3 |
| | 10 | 572.75 | 271,276 | 0 | 81.0 | 6,998 | 32,995 | 43 | 79 | 7,035 | 81.4 | 74.2 |

Year : 1993

| Month | Date | WL | V | dV | Q-ICOT | Vout | A | P | E | Vin | Qin | Qin(mv.av.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | m | $10^3m^3$ | $10^3m^3$ | $m^3/s$ | $10^3m^3$ | $10^3m^2$ | $10^3m^3$ | $10^3m^3$ | $10^3m^3$ | $m^3/s$ | $m^3/s$ |
| | 11 | 572.75 | 271,276 | 0 | 77.5 | 6,696 | 32,995 | 0 | 79 | 6,775 | 78.4 | 76.4 |
| | 12 | 572.74 | 270,985 | -291 | 75.6 | 6,532 | 32,968 | 0 | 79 | 6,320 | 73.2 | 74.3 |
| | 13 | 572.72 | 270,404 | -581 | 74.3 | 6,420 | 32,914 | 0 | 79 | 5,918 | 68.5 | 71.2 |
| | 14 | 572.71 | 270,114 | -290 | 72.4 | 6,255 | 32,887 | 0 | 79 | 6,044 | 70.0 | 70.5 |
| | 15 | 572.69 | 269,535 | -580 | 72.0 | 6,221 | 32,833 | 16 | 79 | 5,701 | 66.0 | 75.0 |
| | 16 | 572.70 | 269,824 | 290 | 70.7 | 6,108 | 32,860 | 20 | 79 | 6,457 | 74.7 | 75.2 |
| | 17 | 572.75 | 271,276 | 1,452 | 78.0 | 6,739 | 32,995 | 0 | 79 | 8,270 | 95.7 | 75.7 |
| | 18 | 572.75 | 271,276 | 0 | 76.8 | 6,636 | 32,995 | 703 | 79 | 6,012 | 69.6 | 78.0 |
| | 19 | 572.74 | 270,985 | -291 | 75.2 | 6,497 | 32,968 | 30 | 79 | 6,256 | 72.4 | 77.0 |
| | 20 | 572.74 | 270,985 | 0 | 76.5 | 6,610 | 32,968 | 0 | 79 | 6,689 | 77.4 | 72.4 |
| | 21 | 572.72 | 270,404 | -581 | 75.7 | 6,540 | 32,914 | 0 | 79 | 6,039 | 69.9 | 69.9 |
| | 22 | 572.71 | 270,114 | -290 | 75.2 | 6,497 | 32,887 | 0 | 79 | 6,286 | 72.8 | 68.1 |
| | 23 | 572.69 | 269,535 | -580 | 70.2 | 6,065 | 32,833 | 645 | 79 | 4,920 | 56.9 | 66.6 |
| | 24 | 572.67 | 268,956 | -579 | 70.4 | 6,083 | 32,779 | 92 | 79 | 5,490 | 63.5 | 63.3 |
| | 25 | 572.67 | 268,956 | 0 | 68.9 | 5,953 | 32,779 | 0 | 79 | 6,032 | 69.8 | 63.3 |
| | 26 | 572.66 | 268,666 | -289 | 65.0 | 5,616 | 32,752 | 793 | 79 | 4,612 | 53.4 | 67.2 |
| | 27 | 572.67 | 268,956 | 289 | 68.4 | 5,910 | 32,779 | 3 | 79 | 6,274 | 72.6 | 72.8 |
| | 28 | 572.69 | 269,535 | 579 | 69.8 | 6,031 | 32,833 | 59 | 79 | 6,629 | 76.7 | 78.4 |
| | 29 | 572.73 | 270,695 | 1,160 | 76.9 | 6,644 | 32,941 | 0 | 79 | 7,883 | 91.2 | 87.7 |
| | 30 | 572.77 | 271,858 | 1,163 | 85.3 | 7,370 | 33,049 | 142 | 79 | 8,471 | 98.0 | 91.9 |
| | 31 | 572.80 | 272,733 | 874 | 90.8 | 7,845 | 33,130 | 172 | 79 | 8,627 | 99.9 | 97.1 |
| Sept. | 1 | 572.83 | 273,609 | 876 | 94.8 | 8,191 | 33,211 | 1,067 | 106 | 8,106 | 93.8 | 103.0 |
| | 2 | 572.85 | 274,194 | 585 | 97.2 | 8,398 | 33,266 | 242 | 106 | 8,847 | 102.4 | 110.2 |
| | 3 | 572.90 | 275,660 | 1,466 | 109.0 | 9,418 | 33,401 | 549 | 106 | 10,441 | 120.8 | 114.6 |
| | 4 | 572.95 | 277,131 | 1,471 | 116.0 | 10,022 | 33,537 | 0 | 107 | 11,600 | 134.3 | 123.3 |
| | 5 | 572.98 | 278,016 | 885 | 120.0 | 10,368 | 33,619 | 828 | 107 | 10,532 | 121.9 | 128.6 |
| | 6 | 573.00 | 278,607 | 591 | 129.0 | 11,146 | 33,674 | 0 | 108 | 11,844 | 137.1 | 130.7 |
| | 7 | 573.02 | 279,198 | 592 | 129.0 | 11,146 | 33,728 | 704 | 108 | 11,141 | 128.9 | 128.8 |
| | 8 | 573.02 | 279,198 | 0 | 130.0 | 11,232 | 33,728 | 3 | 108 | 11,337 | 131.2 | 130.3 |
| | 9 | 573.01 | 278,902 | -296 | 130.0 | 11,232 | 33,701 | 263 | 108 | 10,781 | 124.8 | 128.5 |
| | 10 | 573.01 | 278,902 | 0 | 128.0 | 11,059 | 33,701 | 0 | 108 | 11,167 | 129.2 | 127.2 |
| | 11 | 573.01 | 278,902 | 0 | 127.0 | 10,973 | 33,701 | 0 | 108 | 11,081 | 128.2 | 126.5 |
| | 12 | 573.00 | 278,607 | -296 | 125.0 | 10,800 | 33,674 | 13 | 108 | 10,599 | 122.7 | 125.7 |
| | 13 | 573.01 | 278,902 | 296 | 126.0 | 10,886 | 33,701 | 263 | 108 | 11,027 | 127.6 | 123.9 |
| | 14 | 573.00 | 278,607 | -296 | 123.0 | 10,627 | 33,674 | 0 | 108 | 10,439 | 120.8 | 118.5 |
| | 15 | 573.00 | 278,607 | 0 | 120.0 | 10,368 | 33,674 | 88 | 108 | 10,388 | 120.2 | 115.0 |
| | 16 | 572.97 | 277,721 | -886 | 116.0 | 10,022 | 33,592 | 502 | 108 | 8,742 | 101.2 | 110.2 |
| | 17 | 572.95 | 277,131 | -590 | 111.0 | 9,590 | 33,537 | 17 | 107 | 9,091 | 105.2 | 103.4 |
| | 18 | 572.93 | 276,542 | -589 | 109.0 | 9,418 | 33,483 | 0 | 107 | 8,936 | 103.4 | 99.1 |
| | 19 | 572.90 | 275,660 | -882 | 106.0 | 9,158 | 33,401 | 871 | 107 | 7,513 | 87.0 | 97.5 |
| | 20 | 572.89 | 275,366 | -294 | 102.0 | 8,813 | 33,374 | 77 | 107 | 8,549 | 98.9 | 95.1 |
| | 21 | 572.87 | 274,780 | -587 | 98.4 | 8,502 | 33,320 | 0 | 107 | 8,022 | 92.8 | 92.3 |
| | 22 | 572.86 | 274,487 | -293 | 95.5 | 8,251 | 33,293 | 17 | 107 | 8,048 | 93.1 | 89.9 |
| | 23 | 572.85 | 274,194 | -293 | 91.6 | 7,914 | 33,266 | 0 | 107 | 7,728 | 89.4 | 85.3 |
| | 24 | 572.81 | 273,024 | -1,169 | 88.1 | 7,612 | 33,157 | 73 | 106 | 6,476 | 74.9 | 82.9 |
| | 25 | 572.79 | 272,441 | -584 | 84.7 | 7,318 | 33,103 | 285 | 106 | 6,555 | 75.9 | 80.6 |
| | 26 | 572.79 | 272,441 | 0 | 84.4 | 7,292 | 33,103 | 391 | 106 | 7,007 | 81.1 | 77.6 |
| | 27 | 572.78 | 272,149 | -291 | 83.7 | 7,232 | 33,076 | 0 | 106 | 7,046 | 81.6 | 77.3 |
| | 28 | 572.77 | 271,858 | -291 | 81.2 | 7,016 | 33,049 | 377 | 106 | 6,453 | 74.7 | 76.1 |
| | 29 | 572.75 | 271,276 | -582 | 78.6 | 6,791 | 32,995 | 0 | 106 | 6,315 | 73.1 | 72.7 |
| | 30 | 572.73 | 270,695 | -581 | 75.5 | 6,523 | 32,941 | 0 | 106 | 6,048 | 70.0 | 70.8 |
| Oct. | 1 | 572.72 | 270,404 | -290 | 72.4 | 6,255 | 32,914 | 527 | 105 | 5,543 | 64.2 | 69.5 |
| | 2 | 572.72 | 270,404 | 0 | 71.1 | 6,143 | 32,914 | 0 | 105 | 6,248 | 72.3 | 66.9 |
| | 3 | 572.71 | 270,114 | -290 | 69.9 | 6,039 | 32,887 | 3 | 105 | 5,851 | 67.7 | 66.4 |
| | 4 | 572.69 | 269,535 | -580 | 68.7 | 5,936 | 32,833 | 263 | 105 | 5,198 | 60.2 | 64.9 |
| | 5 | 572.69 | 269,535 | 0 | 66.6 | 5,754 | 32,833 | 0 | 105 | 5,859 | 67.8 | 66.9 |
| | 6 | 572.68 | 269,245 | -290 | 67.3 | 5,815 | 32,806 | 755 | 105 | 4,875 | 56.4 | 68.7 |
| | 7 | 572.71 | 270,114 | 869 | 71.0 | 6,134 | 32,887 | 0 | 105 | 7,109 | 82.3 | 71.1 |
| | 8 | 572.72 | 270,404 | 290 | 72.0 | 6,221 | 32,914 | 0 | 105 | 6,616 | 76.6 | 71.1 |
| | 9 | 572.72 | 270,404 | 0 | 71.2 | 6,152 | 32,914 | 0 | 105 | 6,257 | 72.4 | 71.6 |
| | 10 | 572.71 | 270,114 | -290 | 71.1 | 6,143 | 32,887 | 92 | 105 | 5,866 | 67.9 | 69.9 |
| | 11 | 572.71 | 270,114 | 0 | 71.2 | 6,152 | 32,887 | 1,191 | 105 | 5,066 | 58.6 | 72.8 |
| | 12 | 572.71 | 270,114 | 0 | 73.5 | 6,350 | 32,887 | 69 | 105 | 6,387 | 73.9 | 73.7 |
| | 13 | 572.75 | 271,276 | 1,162 | 78.4 | 6,774 | 32,995 | 184 | 105 | 7,857 | 90.9 | 76.9 |
| | 14 | 572.74 | 270,985 | -291 | 79.3 | 6,852 | 32,968 | 0 | 106 | 6,666 | 77.2 | 81.9 |
| | 15 | 572.75 | 271,276 | 291 | 79.2 | 6,843 | 32,995 | 0 | 105 | 7,239 | 83.8 | 77.3 |
| | 16 | 572.76 | 271,567 | 291 | 79.3 | 6,852 | 33,022 | 0 | 106 | 7,248 | 83.9 | 79.0 |
| | 17 | 572.75 | 271,276 | -291 | 80.5 | 6,955 | 32,995 | 2,391 | 106 | 4,379 | 50.7 | 84.1 |
| | 18 | 572.79 | 272,441 | 1,165 | 85.8 | 7,413 | 33,103 | 106 | 106 | 8,578 | 99.3 | 86.8 |
| | 19 | 572.82 | 273,317 | 876 | 92.2 | 7,966 | 33,184 | 73 | 106 | 8,875 | 102.7 | 88.7 |
| | 20 | 572.83 | 273,609 | 292 | 93.5 | 8,078 | 33,211 | 46 | 106 | 8,430 | 97.6 | 99.1 |
| | 21 | 572.83 | 273,609 | 0 | 93.7 | 8,096 | 33,211 | 126 | 106 | 8,076 | 93.5 | 96.6 |
| | 22 | 572.85 | 274,194 | 585 | 94.7 | 8,182 | 33,266 | 0 | 106 | 8,873 | 102.7 | 94.2 |
| | 23 | 572.83 | 273,609 | -585 | 93.6 | 8,087 | 33,211 | 140 | 106 | 7,469 | 86.4 | 92.2 |

Year : 1993

| Month | Date | WL | V | dV | Q-ICOT | Vout | A | P | E | Vin | Qin | Qin(mv.av.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | m | $10^3m^3$ | $10^3m^3$ | $m^3/s$ | $10^3m^3$ | $10^3m^3$ | $10^3m^3$ | $10^3m^3$ | $10^3m^3$ | $m^3/s$ | $m^3/s$ |
| | 24 | 572.83 | 273,609 | 0 | 92.2 | 7,966 | 33,211 | 206 | 106 | 7,866 | 91.0 | 89.4 |
| | 25 | 572.82 | 273,317 | -292 | 89.5 | 7,733 | 33,184 | 0 | 106 | 7,547 | 87.3 | 85.1 |
| | 26 | 572.80 | 272,733 | -584 | 85.1 | 7,353 | 33,130 | 0 | 106 | 6,875 | 79.6 | 83.6 |
| | 27 | 572.79 | 272,441 | -292 | 83.2 | 7,188 | 33,103 | 0 | 106 | 7,003 | 81.1 | 81.6 |
| | 28 | 572.78 | 272,149 | -291 | 82.4 | 7,119 | 33,076 | 89 | 106 | 6,844 | 79.2 | 77.7 |
| | 29 | 572.78 | 272,149 | 0 | 79.8 | 6,895 | 33,076 | 0 | 106 | 7,001 | 81.0 | 75.7 |
| | 30 | 572.75 | 271,276 | -873 | 76.3 | 6,592 | 32,995 | 0 | 106 | 5,825 | 67.4 | 73.5 |
| | 31 | 572.73 | 270,695 | -581 | 75.4 | 6,515 | 32,941 | 0 | 106 | 6,039 | 69.9 | 70.0 |
| Nov. | 1 | 572.72 | 270,404 | -290 | 72.3 | 6,247 | 32,914 | 0 | 105 | 6,062 | 70.2 | 67.4 |
| | 2 | 572.70 | 269,824 | -580 | 69.8 | 6,031 | 32,860 | 237 | 105 | 5,319 | 61.6 | 65.4 |
| | 3 | 572.70 | 269,824 | 0 | 66.7 | 5,763 | 32,860 | 0 | 105 | 5,868 | 67.9 | 63.9 |
| | 4 | 572.68 | 269,245 | -579 | 65.4 | 5,651 | 32,806 | 197 | 105 | 4,979 | 57.6 | 62.3 |
| | 5 | 572.67 | 268,956 | -289 | 64.5 | 5,573 | 32,779 | 0 | 105 | 5,388 | 62.4 | 61.8 |
| | 6 | 572.66 | 268,666 | -289 | 64.3 | 5,556 | 32,752 | 0 | 105 | 5,371 | 62.2 | 59.2 |
| | 7 | 572.65 | 268,377 | -289 | 62.5 | 5,400 | 32,725 | 144 | 105 | 5,072 | 58.7 | 58.8 |
| | 8 | 572.63 | 267,800 | -577 | 60.6 | 5,236 | 32,671 | 0 | 105 | 4,763 | 55.1 | 58.4 |
| | 9 | 572.62 | 267,512 | -288 | 59.5 | 5,141 | 32,645 | 144 | 105 | 4,813 | 55.7 | 57.1 |
| | 10 | 572.62 | 267,512 | 0 | 59.0 | 5,098 | 32,645 | 0 | 104 | 5,202 | 60.2 | 56.2 |
| | 11 | 572.61 | 267,223 | -288 | 57.7 | 4,985 | 32,618 | 0 | 104 | 4,802 | 55.6 | 55.8 |
| | 12 | 572.60 | 266,935 | -288 | 56.6 | 4,890 | 32,591 | 0 | 104 | 4,707 | 54.5 | 54.1 |
| | 13 | 572.59 | 266,647 | -288 | 55.0 | 4,752 | 32,564 | 0 | 104 | 4,568 | 52.9 | 51.8 |
| | 14 | 572.57 | 266,072 | -575 | 52.7 | 4,553 | 32,510 | 0 | 104 | 4,082 | 47.2 | 50.2 |
| | 15 | 572.56 | 265,785 | -287 | 50.8 | 4,389 | 32,483 | 0 | 104 | 4,206 | 48.7 | 48.6 |
| | 16 | 572.55 | 265,498 | -287 | 49.8 | 4,303 | 32,457 | 0 | 104 | 4,120 | 47.7 | 46.9 |
| | 17 | 572.54 | 265,211 | -287 | 48.7 | 4,208 | 32,430 | 0 | 104 | 4,025 | 46.6 | 45.8 |
| | 18 | 572.53 | 264,924 | -287 | 46.4 | 4,009 | 32,403 | 0 | 104 | 3,826 | 44.3 | 44.1 |
| | 19 | 572.52 | 264,638 | -287 | 44.0 | 3,802 | 32,376 | 0 | 104 | 3,619 | 41.9 | 42.5 |
| | 20 | 572.51 | 264,352 | -286 | 42.2 | 3,646 | 32,350 | 0 | 104 | 3,463 | 40.1 | 40.2 |
| | 21 | 572.50 | 264,065 | -286 | 42.0 | 3,629 | 32,323 | 0 | 104 | 3,446 | 39.9 | 39.7 |
| | 22 | 572.49 | 263,779 | -286 | 40.8 | 3,525 | 32,296 | 323 | 103 | 3,019 | 34.9 | 39.6 |
| | 23 | 572.49 | 263,779 | 0 | 40.3 | 3,482 | 32,296 | 0 | 103 | 3,585 | 41.5 | 39.1 |
| | 24 | 572.49 | 263,779 | 0 | 40.3 | 3,482 | 32,296 | 0 | 103 | 3,585 | 41.5 | 38.6 |
| | 25 | 572.48 | 263,494 | -286 | 39.9 | 3,447 | 32,269 | 0 | 103 | 3,265 | 37.8 | 39.5 |
| | 26 | 572.47 | 263,208 | -286 | 39.3 | 3,396 | 32,243 | 0 | 103 | 3,213 | 37.2 | 38.4 |
| | 27 | 572.47 | 263,208 | 0 | 38.5 | 3,326 | 32,243 | 0 | 103 | 3,430 | 39.7 | 37.8 |
| | 28 | 572.46 | 262,923 | -285 | 37.7 | 3,257 | 32,216 | 0 | 103 | 3,075 | 35.6 | 35.8 |
| | 29 | 572.46 | 262,923 | 0 | 37.5 | 3,240 | 32,216 | 0 | 103 | 3,343 | 38.7 | 36.7 |
| | 30 | 572.45 | 262,638 | -285 | 37.2 | 3,214 | 32,189 | 615 | 103 | 2,417 | 28.0 | 35.8 |
| Dec. | 1 | 572.46 | 262,923 | 285 | 36.8 | 3,180 | 32,216 | 0 | 129 | 3,593 | 41.6 | 37.2 |
| | 2 | 572.46 | 262,923 | 0 | 37.2 | 3,214 | 32,216 | 309 | 129 | 3,034 | 35.1 | 36.6 |
| | 3 | 572.47 | 263,208 | 285 | 37.6 | 3,249 | 32,243 | 0 | 129 | 3,663 | 42.4 | 38.8 |
| | 4 | 572.46 | 262,923 | -285 | 37.6 | 3,249 | 32,216 | 0 | 129 | 3,092 | 35.8 | 38.3 |
| | 5 | 572.46 | 262,923 | 0 | 37.6 | 3,249 | 32,216 | 0 | 129 | 3,378 | 39.1 | 38.5 |
| | 6 | 572.46 | 262,923 | 0 | 37.5 | 3,240 | 32,216 | 0 | 129 | 3,369 | 39.0 | 37.0 |
| | 7 | 572.46 | 262,923 | 0 | 36.8 | 3,180 | 32,216 | 168 | 129 | 3,141 | 36.4 | 38.4 |
| | 8 | 572.46 | 262,923 | 0 | 36.4 | 3,145 | 32,216 | 274 | 129 | 3,000 | 34.7 | 38.5 |
| | 9 | 572.47 | 263,208 | 285 | 37.9 | 3,275 | 32,243 | 0 | 129 | 3,689 | 42.7 | 38.6 |
| | 10 | 572.47 | 263,208 | 0 | 38.4 | 3,318 | 32,243 | 0 | 129 | 3,447 | 39.9 | 37.6 |
| | 11 | 572.47 | 263,208 | 0 | 37.6 | 3,249 | 32,243 | 0 | 129 | 3,378 | 39.1 | 37.5 |
| | 12 | 572.45 | 262,638 | -571 | 36.7 | 3,171 | 32,189 | 0 | 129 | 2,729 | 31.6 | 35.5 |
| | 13 | 572.44 | 262,353 | -285 | 35.8 | 3,093 | 32,163 | 0 | 129 | 2,937 | 34.0 | 34.6 |
| | 14 | 572.43 | 262,068 | -285 | 34.9 | 3,015 | 32,136 | 0 | 129 | 2,859 | 33.1 | 32.9 |
| | 15 | 572.43 | 262,068 | 0 | 33.6 | 2,903 | 32,136 | 0 | 129 | 3,032 | 35.1 | 32.6 |
| | 16 | 572.42 | 261,783 | -285 | 32.7 | 2,825 | 32,109 | 0 | 129 | 2,669 | 30.9 | 31.6 |
| | 17 | 572.41 | 261,499 | -284 | 31.6 | 2,730 | 32,083 | 0 | 128 | 2,574 | 29.8 | 31.3 |
| | 18 | 572.40 | 261,215 | -284 | 30.9 | 2,670 | 32,056 | 0 | 128 | 2,514 | 29.1 | 29.7 |
| | 19 | 572.40 | 261,215 | 0 | 30.1 | 2,601 | 32,056 | 0 | 128 | 2,729 | 31.6 | 28.9 |
| | 20 | 572.39 | 260,930 | -284 | 28.8 | 2,488 | 32,029 | 0 | 128 | 2,333 | 27.0 | 28.2 |
| | 21 | 572.38 | 260,647 | -284 | 28.7 | 2,480 | 32,003 | 0 | 128 | 2,324 | 26.9 | 28.3 |
| | 22 | 572.37 | 260,363 | -284 | 28.4 | 2,454 | 31,976 | 0 | 128 | 2,298 | 26.6 | 26.9 |
| | 23 | 572.37 | 260,363 | 0 | 27.9 | 2,411 | 31,976 | 0 | 128 | 2,538 | 29.4 | 26.5 |
| | 24 | 572.36 | 260,079 | -283 | 26.6 | 2,298 | 31,950 | 0 | 128 | 2,143 | 24.8 | 26.7 |
| | 25 | 572.35 | 259,796 | -283 | 26.5 | 2,290 | 31,923 | 0 | 128 | 2,134 | 24.7 | 26.0 |
| | 26 | 572.35 | 259,796 | 0 | 26.4 | 2,281 | 31,923 | 0 | 128 | 2,409 | 27.9 | 25.2 |
| | 27 | 572.34 | 259,513 | -283 | 25.1 | 2,169 | 31,896 | 0 | 128 | 2,013 | 23.3 | 24.6 |
| | 28 | 572.34 | 259,513 | 0 | 23.8 | 2,056 | 31,896 | 0 | 128 | 2,184 | 25.3 | 24.6 |
| | 29 | 572.33 | 259,230 | -283 | 23.6 | 2,039 | 31,870 | 0 | 128 | 1,884 | 21.8 | 23.2 |
| | 30 | 572.33 | 259,230 | 0 | 23.1 | 1,996 | 31,870 | 0 | 127 | 2,123 | 24.6 | 23.0 |
| | 31 | 572.32 | 258,947 | -283 | 23.0 | 1,987 | 31,843 | 0 | 127 | 1,832 | 21.2 | 23.3 |
| Total | | | 92,536,598 | -2,267 | | 1,310,628 | ######## | 44,591 | 38,059 | 1,301,829 | | |
| Mean | | 572.11 | 253,525 | -6 | 41.6 | 3,591 | 31,318 | 122 | 104 | 3,567 | 41.3 | 41.3 |
| Max. | | 573.02 | 279,198.3 | 5,059.8 | 150.0 | 11,232.0 | 33,728.3 | 2,859.2 | 129.0 | 11,844.1 | 137.1 | 130.7 |
| Min. | | 570.74 | 216,631.7 | -3,405.2 | 11.7 | 1,010.9 | 27,786.2 | 0.0 | 69.8 | -1,627.1 | -18.8 | 4.4 |

Tableau 2 Exemple de résultat du calcul d'arrivée d'eau au barrage de Boali

Station : Arrivée d'eau estimée au barrage de Boali
Rivière : MBALI
Année : 1985

Unit : m3/sec

| Date | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 32.8 | 22.7 | 14.2 | 10.4 | 8.6 | 7.9 | 19.0 | 41.4 | 75.6 | 83.8 | 85.6 | 37.5 |
| 2 | 32.4 | 22.4 | 14.0 | 14.1 | 8.6 | 7.9 | 21.0 | 43.3 | 77.9 | 77.7 | 84.4 | 35.9 |
| 3 | 32.0 | 22.0 | 13.8 | 10.6 | 8.5 | 7.8 | 18.7 | 51.4 | 89.9 | 72.5 | 83.4 | 34.9 |
| 4 | 31.8 | 21.7 | 13.6 | 10.2 | 8.3 | 7.8 | 14.6 | 64.9 | 88.9 | 69.9 | 86.6 | 34.0 |
| 5 | 31.4 | 21.4 | 13.3 | 10.2 | 18.7 | 7.8 | 23.1 | 73.9 | 94.2 | 66.7 | 86.9 | 33.1 |
| 6 | 31.0 | 21.0 | 13.1 | 10.2 | 16.4 | 7.8 | 25.9 | 79.6 | 95.3 | 64.5 | 86.8 | 32.4 |
| 7 | 30.8 | 20.7 | 12.9 | 10.8 | 12.0 | 7.8 | 28.2 | 84.8 | 100.0 | 62.0 | 86.4 | 31.5 |
| 8 | 30.4 | 20.4 | 12.7 | 10.0 | 8.2 | 7.8 | 28.8 | 84.5 | 94.7 | 57.8 | 86.3 | 29.7 |
| 9 | 30.0 | 20.1 | 12.5 | 10.0 | 8.2 | 9.0 | 28.4 | 84.4 | 85.2 | 54.4 | 84.5 | 30.1 |
| 10 | 29.7 | 19.7 | 12.3 | 9.9 | 8.2 | 7.7 | 23.3 | 84.5 | 81.0 | 55.3 | 84.6 | 29.5 |
| 11 | 29.4 | 19.4 | 12.1 | 9.9 | 8.2 | 7.7 | 19.1 | 85.7 | 71.1 | 67.7 | 87.8 | 28.7 |
| 12 | 29.0 | 19.1 | 12.0 | 9.8 | 8.2 | 7.7 | 18.4 | 88.1 | 67.7 | 72.5 | 87.0 | 28.1 |
| 13 | 28.7 | 18.8 | 11.9 | 9.7 | 8.2 | 7.7 | 18.3 | 89.5 | 87.7 | 72.2 | 87.1 | 28.0 |
| 14 | 28.3 | 18.5 | 19.2 | 9.6 | 8.2 | 7.7 | 17.6 | 90.9 | 120.0 | 70.4 | 88.4 | 28.0 |
| 15 | 28.1 | 18.2 | 14.5 | 9.5 | 12.6 | 15.2 | 14.8 | 92.7 | 108.0 | 65.6 | 84.6 | 27.4 |
| 16 | 27.8 | 17.9 | 11.6 | 9.4 | 9.2 | 17.7 | 14.3 | 91.5 | 101.0 | 61.4 | 81.7 | 27.3 |
| 17 | 27.6 | 17.5 | 11.6 | 9.4 | 13.5 | 13.4 | 18.4 | 89.1 | 90.3 | 62.3 | 76.9 | 27.3 |
| 18 | 27.3 | 17.2 | 11.5 | 9.3 | 9.8 | 9.8 | 30.1 | 89.6 | 86.9 | 62.3 | 72.3 | 27.9 |
| 19 | 27.1 | 17.0 | 11.4 | 9.2 | 8.1 | 8.1 | 38.4 | 90.1 | 84.5 | 59.9 | 65.8 | 27.9 |
| 20 | 26.8 | 16.7 | 11.3 | 9.1 | 8.1 | 8.0 | 41.0 | 89.7 | 82.4 | 62.4 | 59.7 | 26.6 |
| 21 | 26.4 | 16.4 | 11.2 | 14.5 | 8.1 | 7.8 | 54.7 | 90.8 | 78.3 | 64.2 | 55.9 | 26.5 |
| 22 | 26.1 | 16.1 | 11.2 | 10.8 | 8.1 | 24.9 | 66.1 | 91.0 | 77.3 | 64.2 | 50.3 | 25.8 |
| 23 | 25.7 | 15.8 | 11.1 | 9.7 | 8.1 | 22.0 | 69.2 | 92.1 | 90.1 | 60.3 | 46.0 | 25.1 |
| 24 | 25.4 | 15.5 | 11.0 | 9.0 | 8.2 | 19.6 | 68.0 | 91.8 | 90.5 | 57.5 | 42.4 | 24.4 |
| 25 | 25.1 | 15.3 | 10.9 | 8.9 | 8.1 | 17.1 | 64.5 | 93.3 | 84.1 | 60.3 | 40.8 | 23.8 |
| 26 | 24.7 | 15.0 | 11.0 | 8.9 | 8.1 | 14.5 | 61.5 | 92.9 | 77.6 | 62.3 | 39.4 | 23.4 |
| 27 | 24.4 | 14.7 | 10.8 | 8.8 | 8.1 | 16.1 | 54.3 | 92.2 | 73.1 | 62.7 | 38.6 | 23.0 |
| 28 | 24.0 | 14.5 | 10.7 | 8.8 | 8.1 | 14.0 | 47.4 | 76.6 | 72.1 | 66.3 | 38.4 | 22.5 |
| 29 | 23.7 | - | 10.7 | 8.7 | 8.0 | 13.5 | 45.7 | 62.8 | 71.8 | 69.4 | 37.7 | 22.4 |
| 30 | 23.4 | - | 10.6 | 8.7 | 8.0 | 13.5 | 47.5 | 63.2 | 80.4 | 82.0 | 37.6 | 21.7 |
| 31 | 23.0 | - | 10.5 | - | 8.0 | - | 44.2 | 75.0 | - | 85.6 | - | 21.1 |
| Total | 864.3 | 515.7 | 379.4 | 298.2 | 288.9 | 345.4 | 1,084.5 | 2,511.3 | 2,577.6 | 2,056.1 | 2,073.9 | 865.5 |
| Mean | 27.9 | 18.4 | 12.2 | 9.9 | 9.3 | 11.5 | 35.0 | 81.0 | 85.9 | 66.3 | 69.1 | 27.9 |
| Max. | 120.0 | Q356= | 7.8 | Q186= | 25.4 | | | | | | | |
| Min. | 7.7 | Q276= | 12.0 | Q96= | 64.2 | | | | | | | |

*** Données de débit journalier de la rivière ***
Station : Arrivée d'eau estimée au barrage de Boali
Rivière : MBALI
Année : 1986

Unit : m3/sec

| Date | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20.3 | 15.9 | 10.4 | 6.8 | 4.5 | 6.8 | 10.7 | 70.3 | 66.8 | 151.0 | 65.4 | 25.1 |
| 2 | 20.3 | 15.6 | 10.3 | 6.3 | 4.0 | 6.1 | 20.7 | 68.3 | 72.7 | 144.0 | 64.9 | 25.1 |
| 3 | 19.7 | 15.4 | 10.2 | 6.1 | 5.0 | 6.7 | 20.7 | 66.2 | 73.7 | 141.0 | 55.4 | 25.1 |
| 4 | 19.6 | 15.1 | 10.1 | 6.4 | 6.8 | 10.2 | 26.3 | 65.7 | 78.5 | 147.0 | 49.6 | 24.7 |
| 5 | 19.0 | 14.9 | 10.0 | 6.2 | 7.4 | 9.4 | 31.8 | 64.0 | 83.2 | 156.0 | 48.8 | 23.0 |
| 6 | 18.9 | 14.6 | 9.8 | 5.4 | 6.5 | 8.0 | 36.1 | 61.7 | 78.3 | 160.0 | 48.4 | 21.8 |
| 7 | 18.9 | 14.3 | 9.7 | 5.0 | 9.4 | 7.5 | 41.4 | 60.3 | 77.8 | 158.0 | 45.9 | 21.3 |
| 8 | 18.4 | 14.1 | 9.5 | 4.8 | 6.9 | 12.8 | 46.1 | 59.9 | 75.3 | 144.0 | 41.4 | 20.0 |
| 9 | 18.0 | 21.0 | 9.4 | 4.3 | 6.1 | 17.8 | 50.0 | 63.6 | 75.6 | 133.0 | 39.4 | 19.6 |
| 10 | 17.7 | 16.0 | 9.3 | 4.3 | 5.3 | 16.0 | 37.7 | 62.6 | 76.0 | 126.0 | 36.9 | 18.9 |
| 11 | 17.7 | 14.0 | 9.2 | 4.1 | 4.5 | 13.8 | 24.7 | 61.1 | 82.3 | 115.0 | 34.5 | 18.4 |
| 12 | 17.2 | 13.6 | 9.2 | 4.0 | 6.0 | 14.7 | 23.2 | 58.7 | 91.0 | 98.5 | 32.8 | 18.3 |
| 13 | 16.8 | 13.5 | 9.1 | 4.0 | 12.2 | 13.7 | 31.8 | 56.8 | 96.2 | 86.8 | 32.0 | 18.3 |
| 14 | 16.5 | 13.4 | 8.9 | 3.7 | 11.4 | 13.9 | 35.8 | 54.9 | 102.0 | 78.1 | 30.9 | 17.8 |
| 15 | 16.0 | 13.2 | 8.9 | 3.5 | 7.9 | 10.9 | 45.1 | 57.6 | 107.0 | 70.5 | 29.9 | 17.7 |
| 16 | 15.7 | 13.0 | 8.8 | 3.2 | 6.3 | 9.3 | 47.0 | 57.0 | 112.0 | 65.6 | 29.4 | 17.2 |
| 17 | 15.4 | 12.7 | 8.8 | 2.9 | 11.6 | 11.4 | 52.7 | 54.5 | 114.0 | 62.5 | 27.8 | 17.1 |
| 18 | 15.1 | 12.5 | 8.7 | 2.6 | 14.5 | 11.9 | 63.1 | 60.4 | 116.0 | 59.3 | 27.3 | 17.4 |
| 19 | 14.8 | 12.4 | 8.6 | 2.4 | 13.4 | 9.2 | 73.3 | 65.0 | 125.0 | 58.7 | 27.3 | 17.6 |
| 20 | 14.3 | 12.2 | 8.6 | 2.4 | 16.6 | 8.7 | 76.5 | 62.6 | 112.0 | 60.1 | 26.5 | 16.6 |
| 21 | 14.2 | 12.0 | 8.4 | 2.2 | 14.3 | 9.5 | 77.9 | 60.4 | 104.0 | 56.0 | 25.8 | 16.0 |
| 22 | 14.2 | 11.8 | 8.3 | 2.1 | 14.8 | 11.8 | 79.3 | 58.0 | 102.0 | 54.8 | 25.2 | 16.0 |
| 23 | 14.2 | 11.6 | 8.2 | 2.2 | 16.2 | 9.2 | 79.9 | 56.2 | 97.9 | 58.0 | 25.1 | 16.0 |
| 24 | 13.7 | 11.3 | 8.1 | 3.8 | 15.0 | 7.3 | 84.1 | 55.3 | 96.6 | 61.3 | 25.1 | 15.5 |
| 25 | 13.6 | 11.1 | 8.0 | 5.1 | 15.3 | 6.4 | 94.0 | 53.1 | 101.0 | 62.6 | 24.8 | 15.1 |
| 26 | 13.6 | 10.9 | 7.9 | 6.7 | 15.9 | 5.7 | 93.6 | 53.3 | 107.0 | 65.2 | 25.7 | 14.5 |
| 27 | 13.1 | 10.7 | 7.9 | 6.7 | 13.1 | 5.2 | 92.4 | 60.9 | 109.0 | 66.4 | 25.2 | 14.2 |
| 28 | 13.0 | 10.5 | 7.8 | 5.4 | 10.7 | 4.7 | 98.4 | 59.3 | 112.0 | 65.6 | 25.4 | 14.2 |
| 29 | 12.5 | - | 7.8 | 4.7 | 8.8 | 4.3 | 104.0 | 57.7 | 135.0 | 66.4 | 25.8 | 14.7 |
| 30 | 12.3 | - | 7.7 | 4.5 | 7.5 | 4.2 | 100.0 | 55.4 | 151.0 | 67.5 | 25.2 | 15.1 |
| 31 | 12.1 | - | 7.7 | - | 6.5 | - | 95.1 | 53.1 | - | 65.6 | - | 15.9 |
| Total | 496.8 | 377.3 | 275.2 | 131.7 | 304.4 | 287.1 | 1,793.4 | 1,853.7 | 2,930.9 | 2,904.5 | 1,047.8 | 568.2 |
| Mean | 16.0 | 13.5 | 8.9 | 4.4 | 9.8 | 9.6 | 57.9 | 59.8 | 97.7 | 93.7 | 34.9 | 18.3 |
| Max. | 160.0 | Q356= | 3.7 | Q186= | 16.8 | | | | | | | |
| Min. | 2.1 | Q276= | 9.7 | Q96= | 57.6 | | | | | | | |

*** Données de débit journalier de la rivière ***

Station : Arrivée d'eau estimée au barrage de Boali

Rivière : MBALI

Année : 1987

Unit : m3/sec

| Date | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 15.9 | 7.9 | 6.2 | 22.0 | 5.4 | 8.2 | 52.8 | 41.9 | 52.7 | 48.3 | 21.7 | 11.0 |
| 2 | 14.9 | 7.9 | 7.6 | 19.5 | 4.6 | 16.3 | 69.9 | 30.5 | 63.4 | 42.7 | 19.4 | 17.5 |
| 3 | 14.2 | 7.9 | 8.0 | 14.5 | 4.1 | 14.9 | 47.1 | 36.5 | 64.4 | 43.8 | 18.0 | 15.3 |
| 4 | 13.1 | 7.7 | 6.8 | 12.2 | 3.8 | 8.0 | 31.7 | 37.5 | 59.5 | 45.8 | 17.1 | 15.2 |
| 5 | 13.0 | 7.5 | 5.6 | 10.4 | 3.2 | 7.8 | 27.5 | 34.4 | 56.6 | 50.9 | 16.5 | 14.3 |
| 6 | 13.0 | 7.5 | 5.0 | 12.2 | 3.0 | 13.0 | 25.7 | 29.3 | 56.6 | 54.6 | 16.0 | 14.1 |
| 7 | 12.5 | 7.5 | 4.6 | 24.1 | 4.0 | 14.2 | 21.7 | 25.8 | 67.7 | 52.9 | 16.0 | 12.8 |
| 8 | 12.5 | 7.5 | 4.6 | 22.1 | 4.0 | 22.2 | 16.9 | 20.5 | 74.4 | 57.4 | 15.5 | 13.2 |
| 9 | 12.1 | 7.2 | 4.6 | 15.9 | 3.5 | 28.8 | 15.0 | 15.1 | 69.9 | 55.0 | 15.1 | 12.5 |
| 10 | 12.1 | 7.1 | 4.1 | 9.2 | 3.2 | 31.9 | 15.9 | 13.7 | 59.5 | 50.8 | 14.5 | 12.4 |
| 11 | 11.6 | 6.8 | 3.9 | 7.9 | 4.1 | 33.3 | 16.0 | 13.2 | 56.6 | 45.2 | 13.9 | 11.2 |
| 12 | 11.6 | 6.8 | 3.8 | 7.2 | 4.0 | 30.8 | 16.5 | 15.9 | 51.7 | 40.8 | 13.3 | 10.2 |
| 13 | 11.6 | 6.6 | 3.8 | 6.1 | 3.6 | 24.6 | 16.6 | 18.1 | 47.9 | 35.6 | 12.8 | 10.1 |
| 14 | 11.6 | 6.4 | 3.7 | 5.6 | 3.3 | 19.0 | 19.3 | 16.6 | 45.9 | 38.4 | 12.5 | 8.9 |
| 15 | 11.6 | 6.5 | 3.5 | 5.3 | 3.7 | 15.3 | 28.1 | 14.6 | 45.0 | 43.3 | 12.1 | 9.0 |
| 16 | 11.6 | 6.8 | 3.5 | 5.4 | 2.6 | 15.3 | 31.1 | 21.8 | 44.0 | 43.0 | 11.6 | 8.5 |
| 17 | 11.6 | 6.8 | 3.4 | 7.1 | 2.3 | 24.8 | 27.4 | 36.3 | 38.5 | 39.0 | 11.7 | 7.9 |
| 18 | 11.6 | 6.5 | 3.2 | 8.2 | 2.1 | 28.4 | 23.3 | 44.7 | 30.2 | 36.6 | 12.7 | 8.1 |
| 19 | 11.1 | 6.4 | 3.2 | 7.4 | 1.8 | 26.4 | 22.9 | 45.0 | 28.0 | 33.3 | 13.5 | 7.6 |
| 20 | 11.1 | 6.4 | 3.2 | 6.2 | 2.4 | 27.5 | 20.6 | 55.8 | 29.5 | 31.6 | 13.7 | 7.5 |
| 21 | 10.6 | 6.4 | 3.1 | 7.6 | 6.7 | 21.7 | 17.7 | 57.2 | 37.6 | 29.7 | 15.3 | 7.4 |
| 22 | 10.6 | 6.1 | 2.9 | 8.0 | 5.5 | 21.9 | 23.4 | 63.9 | 44.0 | 30.8 | 16.9 | 7.0 |
| 23 | 10.2 | 5.9 | 3.1 | 7.3 | 4.8 | 22.1 | 22.7 | 71.3 | 69.9 | 33.8 | 15.8 | 6.4 |
| 24 | 10.2 | 5.9 | 3.2 | 6.2 | 6.0 | 28.4 | 17.2 | 71.4 | 58.6 | 39.1 | 14.8 | 6.4 |
| 25 | 9.7 | 6.1 | 3.3 | 6.9 | 7.2 | 27.6 | 17.2 | 68.1 | 57.6 | 42.2 | 14.2 | 6.1 |
| 26 | 9.7 | 6.4 | 5.4 | 12.7 | 5.6 | 24.6 | 20.0 | 62.5 | 58.6 | 47.0 | 14.2 | 6.1 |
| 27 | 9.0 | 6.0 | 11.0 | 11.7 | 4.3 | 24.0 | 20.1 | 60.6 | 51.7 | 41.4 | 13.9 | 6.1 |
| 28 | 8.7 | 6.0 | 37.1 | 9.3 | 3.5 | 23.8 | 27.0 | 62.0 | 45.9 | 34.7 | 12.8 | 6.7 |
| 29 | 8.7 | - | 31.1 | 7.1 | 7.4 | 34.9 | 29.1 | 57.7 | 51.7 | 29.7 | 10.9 | 5.8 |
| 30 | 8.5 | - | 20.9 | 6.1 | 9.5 | 45.3 | 31.8 | 50.3 | 45.9 | 25.9 | 9.8 | 5.5 |
| 31 | 8.2 | - | 19.8 | - | 5.9 | - | 40.8 | 48.9 | - | 23.4 | - | 5.2 |
| Total | 352.5 | 190.6 | 232.9 | 311.2 | 135.1 | 685.0 | 813.0 | 1,241.1 | 1,553.5 | 1,266.7 | 436.2 | 295.8 |
| Mean | 11.4 | 6.8 | 7.5 | 10.4 | 4.4 | 22.8 | 26.2 | 40.0 | 52.1 | 40.9 | 14.5 | 9.5 |
| Max. | 74.4 | Q356= | 3.2 | Q186= | 13.5 | | | | | | | |
| Min. | 1.8 | Q276= | 7.1 | Q96= | 28.4 | | | | | | | |

*** Données de débit journalier de la rivière ***
Station : Arrivée d'eau estimée au barrage de Boali
Rivière : MBALI
Année : 1988

Unit : m3/sec

| Date | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.0 | 2.7 | 1.4 | 1.3 | 6.9 | 6.8 | 118.0 | 23.1 | 100.0 | 183.0 | 94.8 | 44.9 |
| 2 | 5.5 | 3.0 | 0.9 | 1.0 | 5.6 | 6.2 | 122.0 | 22.9 | 106.0 | 199.0 | 90.4 | 43.1 |
| 3 | 5.4 | 2.9 | 1.3 | 1.3 | 8.1 | 17.3 | 122.0 | 21.6 | 121.0 | 188.0 | 86.6 | 41.4 |
| 4 | 6.1 | 2.8 | 1.0 | 1.0 | 9.4 | 21.0 | 124.0 | 22.0 | 132.0 | 177.0 | 86.7 | 39.8 |
| 5 | 8.1 | 2.6 | 0.7 | 0.7 | 9.3 | 28.1 | 121.0 | 24.6 | 132.0 | 162.0 | 85.3 | 39.3 |
| 6 | 7.1 | 2.6 | 1.1 | 1.0 | 5.6 | 29.8 | 119.0 | 35.5 | 133.0 | 154.0 | 78.2 | 39.1 |
| 7 | 5.8 | 2.4 | 0.8 | 1.0 | 4.9 | 34.7 | 113.0 | 32.2 | 133.0 | 148.0 | 69.8 | 38.9 |
| 8 | 5.7 | 2.4 | 0.7 | 0.9 | 4.2 | 34.9 | 108.0 | 37.6 | 135.0 | 143.0 | 64.1 | 38.6 |
| 9 | 7.8 | 4.2 | 3.4 | 0.3 | 4.7 | 20.6 | 104.0 | 56.9 | 137.0 | 136.0 | 60.1 | 38.4 |
| 10 | 7.1 | 3.5 | 6.3 | 0.1 | 16.6 | 21.4 | 103.0 | 72.4 | 141.0 | 131.0 | 56.7 | 38.1 |
| 11 | 6.7 | 2.9 | 4.9 | 0.3 | 17.9 | 35.1 | 85.6 | 68.4 | 156.0 | 128.0 | 54.2 | 37.8 |
| 12 | 5.9 | 3.8 | 4.6 | 0.1 | 13.6 | 38.5 | 73.2 | 59.3 | 199.0 | 132.0 | 51.8 | 37.5 |
| 13 | 5.0 | 3.3 | 4.1 | 0.1 | 8.5 | 31.7 | 61.9 | 42.3 | 145.0 | 124.0 | 49.9 | 37.2 |
| 14 | 4.1 | 3.2 | 3.8 | 0.4 | 6.3 | 26.8 | 46.6 | 49.0 | 137.0 | 110.0 | 47.5 | 36.9 |
| 15 | 4.2 | 3.6 | 3.5 | 0.6 | 4.7 | 29.5 | 42.5 | 50.3 | 144.0 | 102.0 | 45.9 | 36.5 |
| 16 | 4.3 | 3.3 | 4.5 | 0.6 | 3.9 | 29.5 | 38.3 | 47.7 | 161.0 | 97.4 | 43.7 | 36.2 |
| 17 | 4.3 | 3.2 | 5.3 | 1.5 | 3.8 | 29.4 | 35.7 | 46.7 | 168.0 | 97.5 | 42.6 | 35.9 |
| 18 | 4.4 | 2.9 | 4.2 | 2.2 | 3.8 | 33.7 | 31.1 | 39.3 | 163.0 | 98.0 | 41.4 | 35.5 |
| 19 | 4.1 | 2.9 | 3.3 | 3.4 | 3.9 | 36.2 | 26.0 | 33.6 | 144.0 | 105.0 | 41.1 | 35.2 |
| 20 | 4.0 | 2.9 | 2.8 | 6.1 | 6.1 | 52.4 | 22.5 | 31.1 | 130.0 | 116.0 | 40.2 | 34.9 |
| 21 | 3.8 | 2.9 | 3.3 | 5.7 | 12.0 | 62.2 | 20.7 | 40.8 | 122.0 | 119.0 | 38.7 | 34.5 |
| 22 | 3.7 | 2.3 | 3.9 | 12.8 | 13.8 | 76.2 | 19.0 | 39.8 | 119.0 | 113.0 | 39.3 | 34.2 |
| 23 | 3.5 | 1.8 | 3.4 | 13.2 | 11.0 | 79.2 | 18.5 | 44.7 | 117.0 | 110.0 | 38.5 | 33.9 |
| 24 | 3.5 | 1.6 | 3.6 | 9.1 | 15.4 | 79.5 | 29.5 | 74.5 | 119.0 | 110.0 | 37.6 | 33.7 |
| 25 | 3.5 | 1.5 | 3.1 | 7.4 | 16.6 | 83.0 | 26.3 | 88.7 | 120.0 | 103.0 | 36.7 | 33.4 |
| 26 | 3.4 | 1.4 | 2.6 | 7.1 | 17.9 | 87.2 | 26.1 | 92.4 | 119.0 | 96.3 | 35.8 | 33.1 |
| 27 | 3.1 | 1.4 | 2.7 | 6.3 | 20.9 | 89.0 | 34.3 | 90.9 | 121.0 | 98.4 | 35.0 | 32.7 |
| 28 | 2.9 | 1.4 | 2.2 | 6.0 | 24.5 | 103.0 | 36.7 | 88.5 | 126.0 | 104.0 | 34.8 | 32.4 |
| 29 | 2.9 | 1.4 | 2.0 | 5.5 | 19.1 | 113.0 | 33.5 | 90.3 | 130.0 | 99.3 | 34.1 | 32.1 |
| 30 | 2.7 | - | 1.9 | 5.0 | 12.1 | 114.0 | 29.5 | 95.9 | 140.0 | 97.6 | 34.0 | 31.7 |
| 31 | 2.6 | - | 1.2 | - | 8.8 | - | 24.2 | 98.9 | - | 96.3 | - | 25.0 |
| Total | 146.1 | 76.8 | 88.2 | 102.0 | 319.8 | 1,449.9 | 1,915.7 | 1,661.9 | 4,050.0 | 3,877.8 | 1,595.5 | 1,121.6 |
| Mean | 4.7 | 2.6 | 2.8 | 3.4 | 10.3 | 48.3 | 61.8 | 53.6 | 135.0 | 125.1 | 53.2 | 36.2 |
| Max. | 199.0 | Q356= | 0.7 | Q186= | 31.1 | | | | | | | |
| Min. | 0.1 | Q276= | 4.2 | Q96= | 73.2 | | | | | | | |

*** Données de débit journalier de la rivière ***
Station : Arrivée d'eau estimée au barrage de Boali
Rivière : MBALI
Année : 1989

Unit : m3/sec

| Date | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20.3 | 10.6 | 5.7 | 6.7 | 4.6 | 35.1 | 32.7 | 46.6 | 216.0 | 110.0 | 50.7 | 32.8 |
| 2 | 20.7 | 10.2 | 5.4 | 6.1 | 4.6 | 34.9 | 26.3 | 40.1 | 209.0 | 122.0 | 49.8 | 32.5 |
| 3 | 20.3 | 10.2 | 5.5 | 5.2 | 5.0 | 35.2 | 23.8 | 35.2 | 202.0 | 125.0 | 49.3 | 32.4 |
| 4 | 19.6 | 10.2 | 7.9 | 5.0 | 6.1 | 39.7 | 26.1 | 33.2 | 189.0 | 125.0 | 49.8 | 31.6 |
| 5 | 18.9 | 10.2 | 8.4 | 4.5 | 5.9 | 31.0 | 25.4 | 33.3 | 181.0 | 129.0 | 48.1 | 30.9 |
| 6 | 18.3 | 10.0 | 6.6 | 4.3 | 4.9 | 20.5 | 22.1 | 37.3 | 183.0 | 123.0 | 48.4 | 29.6 |
| 7 | 17.8 | 9.5 | 6.1 | 4.1 | 5.0 | 14.2 | 24.0 | 51.2 | 187.0 | 122.0 | 49.6 | 29.1 |
| 8 | 17.7 | 9.2 | 6.0 | 4.0 | 5.3 | 12.1 | 44.4 | 57.2 | 185.0 | 118.0 | 47.5 | 28.4 |
| 9 | 17.1 | 8.7 | 5.7 | 3.8 | 5.6 | 12.1 | 45.5 | 60.0 | 181.0 | 110.0 | 45.2 | 34.0 |
| 10 | 16.5 | 8.3 | 5.7 | 3.6 | 6.0 | 22.5 | 38.1 | 65.0 | 152.0 | 104.0 | 44.9 | 32.2 |
| 11 | 16.0 | 8.2 | 5.7 | 4.4 | 9.4 | 15.3 | 35.5 | 65.8 | 146.0 | 100.0 | 44.0 | 34.3 |
| 12 | 16.0 | 7.9 | 5.7 | 4.6 | 12.7 | 12.4 | 35.9 | 70.7 | 146.0 | 95.6 | 43.1 | 35.3 |
| 13 | 15.4 | 7.9 | 5.7 | 4.1 | 20.9 | 17.0 | 28.2 | 72.1 | 141.0 | 91.7 | 42.2 | 36.1 |
| 14 | 14.9 | 7.9 | 5.7 | 3.8 | 21.6 | 20.4 | 26.5 | 72.2 | 141.0 | 88.8 | 42.4 | 34.1 |
| 15 | 14.8 | 7.9 | 5.4 | 3.8 | 18.7 | 38.5 | 26.5 | 73.7 | 123.0 | 94.2 | 40.0 | 32.4 |
| 16 | 14.5 | 7.7 | 5.2 | 4.1 | 13.9 | 35.1 | 26.5 | 89.5 | 113.0 | 92.4 | 38.6 | 32.3 |
| 17 | 13.9 | 7.5 | 5.0 | 3.5 | 13.5 | 36.6 | 36.6 | 89.5 | 106.0 | 91.1 | 38.1 | 31.6 |
| 18 | 13.6 | 7.5 | 5.0 | 3.5 | 13.5 | 31.0 | 31.0 | 97.2 | 104.0 | 92.2 | 37.5 | 30.2 |
| 19 | 13.6 | 7.2 | 4.6 | 3.2 | 11.0 | 31.9 | 27.7 | 104.0 | 97.6 | 93.2 | 36.7 | 28.2 |
| 20 | 13.1 | 6.8 | 4.6 | 3.2 | 15.7 | 33.0 | 21.0 | 109.0 | 88.2 | 89.1 | 35.0 | 26.9 |
| 21 | 13.0 | 6.3 | 5.2 | 3.9 | 15.8 | 32.9 | 16.7 | 110.0 | 130.0 | 89.6 | 34.0 | 25.5 |
| 22 | 12.5 | 6.1 | 5.0 | 4.5 | 14.3 | 31.0 | 17.8 | 121.0 | 109.0 | 85.1 | 32.5 | 24.5 |
| 23 | 12.3 | 6.1 | 4.8 | 5.9 | 11.2 | 29.1 | 23.1 | 124.0 | 99.0 | 84.1 | 31.8 | 24.4 |
| 24 | 12.1 | 6.0 | 4.6 | 6.1 | 14.7 | 25.9 | 32.4 | 123.0 | 99.0 | 78.4 | 33.3 | 24.8 |
| 25 | 12.1 | 5.7 | 4.6 | 5.4 | 19.0 | 22.4 | 44.1 | 141.0 | 106.0 | 73.4 | 33.1 | 25.0 |
| 26 | 12.1 | 5.7 | 4.9 | 6.3 | 24.9 | 18.8 | 47.9 | 153.0 | 100.0 | 69.4 | 32.4 | 24.5 |
| 27 | 12.1 | 5.7 | 5.0 | 6.2 | 34.4 | 28.5 | 52.0 | 159.0 | 102.0 | 66.6 | 31.6 | 24.4 |
| 28 | 11.6 | 5.7 | 6.1 | 7.4 | 53.9 | 29.2 | 55.5 | 156.0 | 104.0 | 64.4 | 30.9 | 23.8 |
| 29 | 11.6 | - | 14.4 | 6.0 | 44.9 | 30.5 | 51.8 | 156.0 | 106.0 | 60.6 | 30.2 | 23.7 |
| 30 | 11.1 | - | 13.6 | 5.0 | 41.1 | 32.7 | 59.1 | 193.0 | 109.0 | 57.7 | 30.1 | 22.7 |
| 31 | 11.1 | - | 8.9 | - | 37.7 | - | 52.2 | 223.0 | - | 53.3 | - | 21.8 |
| Total | 464.6 | 220.9 | 192.6 | 142.0 | 515.8 | 809.5 | 1,056.4 | 2,961.8 | 4,154.8 | 2,898.9 | 1,200.8 | 900.0 |
| Mean | 15.0 | 7.9 | 6.2 | 4.7 | 16.6 | 27.0 | 34.1 | 95.5 | 138.5 | 93.5 | 40.0 | 29.0 |
| Max. | 223.0 | Q356= | 4.0 | Q186= | 26.5 | | | | | | | |
| Min. | 3.2 | Q276= | 9.2 | Q96= | 49.6 | | | | | | | |

*** Données de débit journalier de la rivière ***
Station : Arrivée d'eau estimée au barrage de Boali
Rivière : MBALI
Année : 1990

Unit : m3/sec

| Date | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 16.5 | 12.1 | 5.4 | 2.6 | 4.9 | 45.8 | 5.7 | 17.3 | 81.8 | 57.9 | 39.2 | 40.3 |
| 2 | 16.5 | 12.1 | 5.2 | 2.5 | 4.1 | 36.8 | 5.8 | 23.9 | 78.3 | 59.9 | 38.4 | 38.9 |
| 3 | 16.0 | 12.1 | 5.3 | 2.2 | 4.2 | 31.1 | 13.9 | 14.3 | 77.1 | 59.8 | 58.9 | 37.3 |
| 4 | 16.0 | 12.1 | 5.0 | 2.2 | 5.6 | 27.5 | 17.0 | 11.6 | 81.0 | 55.5 | 56.4 | 35.6 |
| 5 | 16.0 | 11.6 | 5.0 | 2.2 | 4.9 | 17.1 | 9.4 | 10.7 | 82.9 | 49.4 | 54.2 | 34.8 |
| 6 | 15.5 | 10.4 | 5.0 | 2.2 | 4.6 | 13.1 | 6.9 | 10.6 | 81.1 | 45.4 | 51.7 | 33.1 |
| 7 | 15.5 | 9.5 | 5.0 | 2.1 | 4.3 | 11.9 | 7.1 | 9.2 | 77.4 | 41.1 | 50.5 | 32.1 |
| 8 | 15.5 | 9.2 | 4.6 | 1.8 | 4.1 | 13.0 | 6.6 | 7.2 | 74.9 | 35.2 | 48.0 | 30.6 |
| 9 | 15.5 | 8.8 | 4.6 | 1.8 | 4.7 | 14.1 | 5.6 | 8.2 | 71.3 | 34.3 | 45.4 | 28.9 |
| 10 | 15.5 | 8.3 | 4.6 | 1.8 | 6.4 | 13.0 | 5.0 | 18.2 | 54.0 | 37.1 | 48.5 | 32.7 |
| 11 | 15.5 | 8.2 | 4.5 | 1.8 | 8.0 | 11.8 | 4.8 | 21.9 | 44.2 | 35.0 | 45.9 | 28.4 |
| 12 | 15.5 | 7.9 | 4.2 | 1.8 | 8.2 | 9.5 | 4.9 | 22.6 | 42.7 | 33.4 | 59.7 | 26.7 |
| 13 | 15.5 | 7.9 | 4.0 | 1.8 | 6.7 | 7.9 | 5.4 | 33.1 | 61.2 | 34.6 | 58.0 | 26.0 |
| 14 | 15.4 | 7.9 | 4.0 | 1.8 | 5.6 | 7.7 | 7.1 | 33.0 | 55.5 | 32.1 | 55.7 | 25.1 |
| 15 | 14.8 | 7.4 | 3.8 | 1.8 | 8.1 | 8.1 | 7.1 | 25.8 | 44.7 | 34.9 | 53.3 | 23.8 |
| 16 | 14.2 | 7.3 | 3.8 | 1.8 | 8.7 | 7.5 | 6.2 | 30.5 | 52.6 | 38.3 | 50.9 | 22.5 |
| 17 | 13.6 | 7.2 | 3.8 | 1.7 | 8.4 | 6.6 | 7.8 | 43.6 | 72.8 | 36.1 | 53.8 | 21.2 |
| 18 | 12.8 | 7.1 | 3.8 | 1.7 | 7.8 | 9.4 | 8.0 | 54.6 | 65.8 | 43.8 | 57.5 | 20.0 |
| 19 | 12.5 | 6.8 | 3.7 | 1.7 | 13.3 | 15.0 | 8.0 | 61.2 | 64.4 | 47.5 | 55.1 | 19.8 |
| 20 | 12.5 | 6.5 | 3.5 | 1.7 | 12.5 | 22.6 | 9.2 | 61.2 | 65.7 | 45.6 | 52.8 | 19.7 |
| 21 | 12.1 | 6.4 | 3.5 | 1.7 | 9.7 | 23.4 | 12.3 | 55.8 | 72.3 | 41.3 | 51.6 | 19.6 |
| 22 | 12.1 | 6.4 | 3.5 | 1.7 | 7.2 | 13.8 | 20.9 | 54.6 | 83.8 | 44.5 | 49.1 | 19.5 |
| 23 | 12.1 | 6.1 | 3.5 | 1.7 | 9.2 | 13.3 | 14.1 | 60.5 | 73.7 | 42.3 | 48.1 | 19.3 |
| 24 | 12.1 | 6.0 | 3.5 | 1.7 | 23.9 | 11.9 | 9.1 | 67.9 | 67.5 | 40.4 | 47.4 | 19.1 |
| 25 | 12.1 | 5.7 | 3.5 | 1.7 | 28.9 | 8.5 | 7.1 | 71.0 | 72.6 | 41.5 | 46.6 | 18.9 |
| 26 | 12.1 | 5.7 | 3.5 | 1.7 | 30.5 | 7.8 | 7.1 | 71.7 | 69.9 | 46.0 | 45.6 | 18.6 |
| 27 | 12.4 | 5.7 | 3.5 | 1.9 | 35.3 | 8.4 | 7.6 | 81.3 | 64.0 | 44.3 | 44.7 | 18.4 |
| 28 | 14.7 | 5.7 | 3.2 | 3.5 | 39.9 | 7.9 | 7.7 | 84.9 | 58.6 | 39.6 | 43.6 | 18.3 |
| 29 | 15.5 | - | 3.2 | 3.3 | 43.6 | 6.6 | 8.0 | 82.5 | 54.8 | 37.1 | 42.5 | 18.1 |
| 30 | 13.2 | - | 2.9 | 5.7 | 48.8 | 5.7 | 8.7 | 80.5 | 54.8 | 33.9 | 41.4 | 17.9 |
| 31 | 12.1 | - | 2.7 | - | 52.1 | - | 12.9 | 79.0 | - | 35.0 | - | 17.7 |
| Total | 441.3 | 228.1 | 125.0 | 64.1 | 464.0 | 436.9 | 266.9 | 1,308.4 | 2,001.4 | 1,302.8 | 1,494.4 | 782.9 |
| Mean | 14.2 | 8.1 | 4.0 | 2.1 | 15.0 | 14.6 | 8.6 | 42.2 | 66.7 | 42.0 | 49.8 | 25.3 |
| Max. | 84.9 | Q356= | 1.7 | Q186= | 13.9 | | | | | | | |
| Min. | 1.7 | Q276= | 6.5 | Q96= | 39.9 | | | | | | | |

*** Données de débit journalier de la rivière ***
Station : Arrivée d'eau estimée au barrage de Boali
Rivière : MBALI
Année : 1991

Unit : m3/sec

| Date | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 17.5 | 10.4 | 7.3 | 6.9 | 16.1 | 12.0 | 32.8 | 87.6 | 143.2 | 113.8 | 97.6 | 59.6 |
| 2 | 17.3 | 10.2 | 7.2 | 7.1 | 15.5 | 11.8 | 33.3 | 85.8 | 141.1 | 122.8 | 98.6 | 57.4 |
| 3 | 17.0 | 10.0 | 7.2 | 6.9 | 14.9 | 11.6 | 37.5 | 84.7 | 139.0 | 131.1 | 109.4 | 55.0 |
| 4 | 16.8 | 9.8 | 7.2 | 17.4 | 14.3 | 11.3 | 35.6 | 91.7 | 148.2 | 129.6 | 106.3 | 52.7 |
| 5 | 16.6 | 9.6 | 7.2 | 14.9 | 14.4 | 10.9 | 35.6 | 89.9 | 146.5 | 126.5 | 108.3 | 50.4 |
| 6 | 16.3 | 9.5 | 7.2 | 11.3 | 14.7 | 10.6 | 33.7 | 97.3 | 144.2 | 124.4 | 113.3 | 48.1 |
| 7 | 16.1 | 9.3 | 7.2 | 8.3 | 12.9 | 10.2 | 31.7 | 102.0 | 141.7 | 121.7 | 110.0 | 46.0 |
| 8 | 15.9 | 9.1 | 7.2 | 7.7 | 12.5 | 9.7 | 30.6 | 100.1 | 139.5 | 120.1 | 106.8 | 44.0 |
| 9 | 15.7 | 8.9 | 7.1 | 16.6 | 12.0 | 9.5 | 32.5 | 98.0 | 136.7 | 126.3 | 105.0 | 42.1 |
| 10 | 15.4 | 8.8 | 7.1 | 26.4 | 11.4 | 9.1 | 33.3 | 100.0 | 133.8 | 123.6 | 101.7 | 40.4 |
| 11 | 15.2 | 8.6 | 7.1 | 24.0 | 11.1 | 8.6 | 42.0 | 97.9 | 132.1 | 127.4 | 98.3 | 38.8 |
| 12 | 15.0 | 8.4 | 7.1 | 27.3 | 10.1 | 8.1 | 49.5 | 96.8 | 129.0 | 124.1 | 95.0 | 37.7 |
| 13 | 14.7 | 8.2 | 7.1 | 28.2 | 9.8 | 19.7 | 49.1 | 96.6 | 127.2 | 120.8 | 92.2 | 37.5 |
| 14 | 14.5 | 8.0 | 7.1 | 26.0 | 9.5 | 29.3 | 47.6 | 94.0 | 128.8 | 117.7 | 90.6 | 37.4 |
| 15 | 14.3 | 7.9 | 7.1 | 24.6 | 9.0 | 28.5 | 46.6 | 91.6 | 126.6 | 114.2 | 89.0 | 37.1 |
| 16 | 14.0 | 7.7 | 7.1 | 22.5 | 10.9 | 26.4 | 45.0 | 96.7 | 123.1 | 111.2 | 87.2 | 36.8 |
| 17 | 13.8 | 7.5 | 7.1 | 20.3 | 8.5 | 26.2 | 54.3 | 94.0 | 122.3 | 120.1 | 85.4 | 36.4 |
| 18 | 13.5 | 7.3 | 7.0 | 19.7 | 8.3 | 40.9 | 54.9 | 91.4 | 118.7 | 120.3 | 83.5 | 36.1 |
| 19 | 13.3 | 7.3 | 7.0 | 19.8 | 8.1 | 38.9 | 62.0 | 94.5 | 115.0 | 119.8 | 81.6 | 35.8 |
| 20 | 13.1 | 7.3 | 7.3 | 19.6 | 7.9 | 36.8 | 62.5 | 103.1 | 112.4 | 116.8 | 79.7 | 35.4 |
| 21 | 12.8 | 7.3 | 7.0 | 19.4 | 10.5 | 35.2 | 61.0 | 100.9 | 112.0 | 113.3 | 78.7 | 35.1 |
| 22 | 12.6 | 11.7 | 7.0 | 19.1 | 7.9 | 33.2 | 66.2 | 99.5 | 108.3 | 110.7 | 76.6 | 34.8 |
| 23 | 12.4 | 7.3 | 7.0 | 18.7 | 21.0 | 31.0 | 64.6 | 98.1 | 105.3 | 120.1 | 74.4 | 34.4 |
| 24 | 12.1 | 7.3 | 7.0 | 18.3 | 17.8 | 28.7 | 75.9 | 118.7 | 108.3 | 119.4 | 72.7 | 34.1 |
| 25 | 11.9 | 8.5 | 7.0 | 17.7 | 15.1 | 28.7 | 76.2 | 117.8 | 106.9 | 115.9 | 70.9 | 33.8 |
| 26 | 11.7 | 7.3 | 6.9 | 18.1 | 17.0 | 31.2 | 77.4 | 117.9 | 103.1 | 112.9 | 69.0 | 33.4 |
| 27 | 11.5 | 8.5 | 6.9 | 20.6 | 14.5 | 29.0 | 77.1 | 121.9 | 105.0 | 109.3 | 67.1 | 33.1 |
| 28 | 11.3 | 7.3 | 12.9 | 20.0 | 14.6 | 28.9 | 75.5 | 125.0 | 101.3 | 107.1 | 65.1 | 32.8 |
| 29 | 11.0 | - | 9.5 | 17.0 | 12.1 | 28.8 | 77.1 | 126.8 | 120.4 | 103.4 | 63.2 | 32.4 |
| 30 | 10.8 | - | 6.9 | 16.5 | 12.7 | 33.8 | 89.9 | 124.5 | 117.0 | 104.5 | 61.6 | 32.1 |
| 31 | 10.6 | - | 6.9 | - | 12.5 | - | 89.0 | 129.4 | - | 101.3 | - | 31.7 |
| Total | 434.6 | 238.9 | 227.9 | 541.1 | 387.4 | 678.4 | 1,679.9 | 3,174.3 | 3,736.6 | 3,650.0 | 2,638.9 | 1,232.5 |
| Mean | 14.0 | 8.5 | 7.4 | 18.0 | 12.5 | 22.6 | 54.2 | 102.4 | 124.6 | 117.7 | 88.0 | 39.8 |
| Max. | 148.2 | Q356= | 7.0 | Q186= | 32.4 | | | | | | | |
| Min. | 6.9 | Q276= | 11.5 | Q96= | 94.0 | | | | | | | |

*** Données de débit journalier de la rivière ***
Station : Arrivée d'eau estimée au barrage de Boali
Rivière : MBALI
Année : 1992

Unit : m3/sec

| Date | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 31.4 | 21.0 | 12.7 | 9.4 | 7.4 | 24.4 | 46.9 | 80.5 | 102.1 | 80.9 | 85.7 | 41.1 |
| 2 | 31.1 | 20.7 | 12.5 | 8.6 | 11.2 | 30.4 | 49.5 | 84.1 | 98.6 | 77.5 | 87.0 | 39.3 |
| 3 | 30.7 | 20.4 | 12.3 | 8.6 | 13.7 | 29.0 | 55.1 | 82.3 | 109.4 | 77.3 | 88.7 | 35.7 |
| 4 | 30.4 | 20.1 | 12.0 | 8.6 | 9.7 | 31.3 | 53.4 | 96.3 | 106.2 | 83.6 | 89.3 | 35.2 |
| 5 | 30.1 | 19.7 | 11.8 | 8.5 | 7.3 | 29.1 | 51.5 | 99.8 | 102.9 | 80.4 | 93.5 | 34.2 |
| 6 | 29.7 | 19.4 | 11.7 | 8.5 | 7.3 | 26.9 | 49.5 | 99.7 | 101.1 | 77.1 | 91.2 | 33.4 |
| 7 | 29.4 | 19.1 | 11.5 | 8.4 | 7.3 | 27.0 | 54.0 | 108.5 | 97.8 | 74.4 | 93.4 | 32.7 |
| 8 | 29.0 | 18.8 | 11.3 | 8.3 | 7.3 | 25.6 | 57.9 | 107.2 | 103.6 | 71.1 | 100.2 | 32.7 |
| 9 | 28.7 | 18.5 | 11.1 | 8.2 | 7.3 | 25.3 | 56.0 | 105.6 | 103.9 | 68.5 | 102.2 | 31.7 |
| 10 | 28.4 | 18.2 | 10.9 | 8.1 | 7.9 | 27.9 | 54.4 | 104.2 | 103.6 | 67.2 | 103.1 | 32.0 |
| 11 | 28.0 | 17.9 | 10.7 | 8.0 | 13.0 | 25.6 | 54.5 | 113.8 | 104.1 | 67.3 | 104.1 | 32.1 |
| 12 | 27.7 | 17.6 | 10.5 | 7.9 | 9.2 | 31.8 | 53.2 | 118.4 | 105.4 | 64.8 | 102.6 | 30.8 |
| 13 | 27.3 | 17.3 | 10.4 | 7.8 | 7.3 | 29.4 | 52.2 | 117.0 | 107.3 | 64.1 | 96.2 | 30.2 |
| 14 | 27.0 | 16.9 | 10.3 | 7.7 | 7.3 | 34.0 | 60.0 | 115.6 | 106.0 | 62.0 | 94.8 | 30.3 |
| 15 | 26.7 | 16.6 | 10.2 | 7.6 | 19.6 | 33.6 | 63.5 | 115.3 | 103.0 | 60.7 | 92.8 | 29.6 |
| 16 | 26.3 | 16.4 | 10.1 | 7.5 | 16.2 | 51.7 | 61.9 | 122.0 | 100.5 | 59.4 | 90.5 | 28.8 |
| 17 | 26.0 | 16.1 | 10.0 | 7.5 | 14.3 | 49.8 | 61.9 | 119.9 | 98.5 | 66.3 | 87.5 | 28.0 |
| 18 | 25.6 | 15.8 | 9.9 | 7.5 | 13.2 | 48.2 | 61.4 | 117.7 | 98.3 | 63.2 | 82.7 | 27.8 |
| 19 | 25.3 | 15.5 | 9.8 | 7.5 | 13.4 | 46.3 | 59.4 | 115.3 | 95.2 | 61.0 | 77.9 | 26.2 |
| 20 | 25.0 | 15.2 | 9.7 | 7.4 | 28.9 | 50.9 | 57.3 | 112.8 | 92.1 | 62.7 | 74.0 | 24.7 |
| 21 | 24.6 | 14.9 | 13.9 | 8.9 | 29.7 | 49.0 | 56.7 | 110.1 | 89.2 | 60.2 | 70.0 | 24.1 |
| 22 | 24.3 | 14.7 | 10.3 | 7.4 | 27.5 | 46.9 | 61.4 | 107.2 | 86.9 | 58.1 | 65.9 | 23.5 |
| 23 | 24.0 | 14.4 | 9.5 | 7.4 | 29.9 | 50.7 | 61.9 | 115.4 | 84.9 | 68.4 | 62.8 | 23.0 |
| 24 | 23.6 | 14.1 | 9.4 | 7.4 | 27.8 | 48.6 | 67.6 | 117.7 | 83.0 | 65.6 | 59.7 | 23.2 |
| 25 | 23.3 | 13.9 | 9.4 | 7.4 | 29.9 | 47.5 | 65.9 | 115.3 | 81.3 | 68.8 | 57.1 | 22.8 |
| 26 | 23.0 | 13.6 | 9.2 | 7.4 | 27.8 | 45.3 | 64.8 | 113.3 | 80.5 | 66.7 | 55.3 | 22.4 |
| 27 | 22.7 | 13.4 | 9.1 | 7.9 | 25.7 | 42.9 | 68.1 | 114.0 | 77.7 | 64.1 | 53.2 | 22.1 |
| 28 | 22.3 | 13.1 | 9.0 | 7.4 | 28.9 | 42.2 | 66.0 | 111.0 | 76.2 | 62.0 | 51.6 | 21.9 |
| 29 | 22.0 | 12.9 | 8.9 | 7.4 | 28.4 | 42.0 | 71.1 | 108.0 | 85.5 | 68.7 | 48.2 | 21.6 |
| 30 | 21.7 | - | 8.8 | 7.4 | 26.2 | 41.3 | 83.2 | 107.6 | 83.0 | 66.6 | 44.8 | 22.4 |
| 31 | 21.4 | - | 8.7 | - | 24.5 | - | 82.3 | 104.4 | - | 65.8 | - | 22.8 |
| Total | 816.7 | 486.2 | 325.5 | 237.6 | 535.3 | 1,134.6 | 1,862.4 | 3,360.0 | 2,867.5 | 2,104.7 | 2,406.3 | 886.0 |
| Mean | 26.3 | 16.8 | 10.5 | 7.9 | 17.3 | 37.8 | 60.1 | 108.4 | 95.6 | 67.9 | 80.2 | 28.6 |
| Max. | 122.0 | Q356= | 7.4 | Q186= | 30.8 | | | | | | | |
| Min. | 7.3 | Q276= | 16.1 | Q96= | 68.5 | | | | | | | |

*** Données de débit journalier de la rivière ***
Station : Arrivée d'eau estimée au barrage de Boali
Rivière : MBALI
Année : 1993

Unit : m3/sec

| Date | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 28.2 | 18.4 | 15.6 | 9.7 | 17.1 | 20.6 | 19.7 | 73.2 | 103.0 | 69.5 | 67.4 | 37.2 |
| 2 | 29.3 | 18.9 | 15.0 | 9.4 | 16.1 | 21.8 | 19.1 | 77.3 | 110.2 | 66.9 | 65.4 | 36.6 |
| 3 | 31.3 | 19.6 | 14.7 | 9.7 | 16.5 | 19.8 | 26.2 | 80.9 | 114.6 | 66.4 | 63.9 | 38.8 |
| 4 | 31.7 | 22.5 | 15.4 | 9.4 | 15.0 | 19.9 | 26.8 | 82.5 | 123.3 | 64.9 | 62.3 | 38.3 |
| 5 | 30.7 | 21.8 | 15.2 | 11.3 | 14.7 | 19.3 | 30.1 | 78.4 | 128.6 | 66.9 | 61.8 | 38.5 |
| 6 | 29.6 | 20.2 | 7.8 | 12.2 | 21.3 | 18.6 | 27.5 | 75.5 | 130.7 | 68.7 | 59.2 | 37.0 |
| 7 | 28.8 | 20.7 | 9.2 | 15.0 | 14.0 | 17.7 | 31.8 | 72.8 | 128.8 | 71.1 | 58.8 | 38.4 |
| 8 | 27.3 | 19.7 | 9.8 | 16.1 | 10.3 | 19.1 | 27.0 | 72.1 | 130.3 | 71.1 | 58.4 | 38.5 |
| 9 | 26.4 | 19.1 | 10.0 | 17.2 | 11.4 | 21.2 | 28.2 | 72.3 | 128.5 | 71.6 | 57.1 | 38.6 |
| 10 | 25.4 | 18.6 | 11.0 | 15.5 | 11.3 | 23.4 | 29.5 | 74.2 | 127.2 | 69.9 | 56.2 | 37.6 |
| 11 | 24.8 | 19.1 | 17.0 | 17.4 | 4.4 | 22.7 | 31.7 | 76.4 | 126.5 | 72.8 | 55.8 | 37.5 |
| 12 | 24.3 | 18.0 | 14.6 | 16.1 | 11.6 | 20.0 | 27.8 | 74.3 | 125.7 | 73.7 | 54.1 | 35.5 |
| 13 | 24.6 | 17.9 | 13.9 | 15.5 | 13.3 | 20.9 | 32.8 | 71.2 | 123.9 | 76.9 | 51.8 | 34.6 |
| 14 | 24.3 | 17.9 | 13.4 | 15.2 | 14.5 | 20.0 | 36.2 | 70.5 | 118.5 | 81.9 | 50.2 | 32.9 |
| 15 | 24.1 | 17.8 | 13.5 | 16.6 | 15.1 | 18.9 | 35.7 | 75.0 | 115.0 | 77.3 | 48.6 | 32.6 |
| 16 | 24.5 | 16.4 | 12.6 | 13.9 | 15.1 | 21.7 | 40.8 | 75.2 | 110.2 | 79.0 | 46.9 | 31.6 |
| 17 | 24.3 | 19.0 | 14.7 | 16.5 | 14.9 | 26.2 | 53.0 | 75.7 | 103.4 | 84.1 | 45.8 | 31.3 |
| 18 | 24.0 | 19.3 | 14.8 | 17.4 | 16.3 | 28.8 | 48.5 | 78.0 | 99.1 | 86.8 | 44.1 | 29.7 |
| 19 | 23.7 | 18.8 | 15.4 | 17.0 | 14.4 | 31.1 | 47.9 | 77.0 | 97.5 | 88.7 | 42.5 | 28.9 |
| 20 | 23.3 | 19.4 | 14.0 | 15.9 | 14.8 | 33.2 | 54.7 | 72.4 | 95.1 | 99.1 | 40.2 | 28.2 |
| 21 | 23.0 | 19.9 | 14.7 | 18.2 | 14.6 | 33.2 | 57.1 | 69.9 | 92.3 | 96.6 | 39.7 | 28.3 |
| 22 | 22.0 | 17.5 | 14.8 | 14.9 | 14.9 | 34.5 | 56.9 | 68.1 | 89.9 | 94.2 | 39.6 | 26.9 |
| 23 | 21.7 | 16.6 | 13.9 | 15.4 | 14.4 | 32.9 | 66.4 | 66.6 | 85.3 | 92.2 | 39.1 | 26.5 |
| 24 | 20.3 | 17.1 | 13.9 | 15.9 | 14.9 | 32.0 | 71.5 | 63.3 | 82.9 | 89.4 | 38.6 | 26.7 |
| 25 | 20.1 | 16.4 | 13.6 | 15.9 | 14.5 | 30.4 | 70.3 | 63.3 | 80.6 | 85.1 | 39.5 | 26.0 |
| 26 | 19.5 | 16.2 | 14.0 | 15.1 | 15.5 | 28.8 | 69.7 | 67.2 | 77.6 | 83.6 | 38.4 | 25.2 |
| 27 | 19.6 | 15.2 | 12.9 | 17.0 | 14.6 | 25.8 | 66.3 | 72.8 | 77.3 | 81.6 | 37.8 | 24.6 |
| 28 | 18.3 | 15.5 | 13.1 | 15.6 | 15.7 | 21.1 | 67.5 | 78.4 | 76.1 | 77.7 | 35.8 | 24.6 |
| 29 | 18.8 | - | 12.2 | 16.8 | 17.2 | 19.9 | 66.6 | 87.7 | 72.7 | 75.7 | 36.7 | 23.2 |
| 30 | 16.5 | - | 12.2 | 16.6 | 17.3 | 17.9 | 67.1 | 91.9 | 70.8 | 73.5 | 35.8 | 23.0 |
| 31 | 17.0 | - | 11.5 | - | 18.3 | - | 71.1 | 97.1 | - | 70.0 | - | 23.3 |
| Total | 747.5 | 517.5 | 414.3 | 448.3 | 454.0 | 721.6 | 1,405.6 | 2,331.0 | 3,145.6 | 2,427.0 | 1,471.5 | 980.4 |
| Mean | 24.1 | 18.5 | 13.4 | 14.9 | 14.6 | 24.1 | 45.3 | 75.2 | 104.9 | 78.3 | 49.0 | 31.6 |
| Max. | 130.7 | Q356= | 10.3 | Q186= | 27.3 | | | | | | | |
| Min. | 4.4 | Q276= | 17.0 | Q96= | 66.6 | | | | | | | |

*** Données de débit journalier de la rivière ***
Station : Arrivée d'eau estimée au barrage de Boali
Rivière : MBALI
Année : 1994

Unit : m3/sec

| Date | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 22.9 | 17.5 | 12.6 | 11.3 | 14.0 | 12.9 | 21.0 | 61.1 | 161.8 | 100.3 | 78.6 | 45.2 |
| 2 | 22.3 | 18.1 | 12.3 | 12.2 | 15.2 | 15.2 | 22.3 | 61.9 | 153.9 | 102.0 | 82.3 | 44.0 |
| 3 | 21.7 | 17.3 | 12.3 | 11.4 | 24.2 | 19.9 | 22.6 | 60.6 | 150.2 | 105.1 | 83.4 | 42.5 |
| 4 | 21.4 | 17.0 | 12.1 | 9.0 | 23.7 | 18.4 | 28.1 | 61.0 | 147.1 | 108.8 | 83.2 | 41.0 |
| 5 | 20.4 | 16.6 | 13.2 | 10.4 | 26.0 | 20.4 | 30.6 | 60.5 | 147.6 | 111.7 | 84.1 | 38.9 |
| 6 | 20.7 | 15.8 | 13.0 | 10.4 | 29.4 | 22.7 | 32.0 | 57.9 | 142.2 | 112.9 | 81.7 | 38.6 |
| 7 | 20.3 | 15.3 | 14.0 | 10.8 | 34.1 | 23.0 | 32.7 | 54.3 | 141.5 | 107.9 | 81.3 | 38.4 |
| 8 | 20.6 | 15.6 | 13.8 | 14.3 | 33.2 | 24.4 | 33.2 | 56.7 | 139.8 | 107.3 | 80.6 | 37.7 |
| 9 | 21.1 | 15.9 | 13.9 | 16.5 | 34.8 | 28.7 | 34.2 | 53.6 | 137.7 | 108.2 | 80.6 | 36.9 |
| 10 | 21.7 | 16.2 | 12.4 | 16.4 | 32.9 | 28.2 | 34.1 | 56.9 | 132.1 | 109.3 | 78.9 | 36.2 |
| 11 | 22.2 | 17.1 | 13.0 | 19.9 | 32.3 | 26.4 | 32.6 | 61.4 | 132.2 | 110.7 | 76.3 | 35.3 |
| 12 | 22.0 | 17.8 | 12.6 | 19.1 | 27.7 | 28.5 | 32.7 | 67.0 | 131.6 | 120.7 | 74.4 | 33.8 |
| 13 | 21.9 | 18.0 | 12.6 | 18.8 | 24.3 | 26.0 | 32.4 | 68.5 | 131.9 | 126.4 | 71.7 | 33.7 |
| 14 | 20.6 | 17.3 | 12.4 | 17.2 | 20.7 | 23.7 | 30.0 | 75.4 | 136.1 | 126.6 | 69.4 | 33.0 |
| 15 | 20.4 | 16.2 | 13.8 | 17.1 | 20.4 | 24.0 | 31.4 | 71.6 | 140.9 | 128.1 | 66.7 | 32.4 |
| 16 | 19.5 | 13.7 | 13.4 | 13.7 | 17.4 | 25.8 | 32.7 | 78.2 | 145.1 | 129.3 | 65.5 | 31.9 |
| 17 | 19.2 | 11.1 | 12.8 | 13.0 | 17.4 | 22.1 | 36.2 | 79.8 | 146.7 | 123.1 | 62.2 | 31.9 |
| 18 | 18.2 | 8.9 | 12.9 | 11.4 | 17.4 | 25.2 | 37.3 | 87.6 | 143.4 | 119.2 | 60.4 | 30.7 |
| 19 | 18.6 | 8.2 | 13.8 | 11.1 | 16.8 | 28.6 | 37.9 | 93.6 | 139.3 | 116.0 | 58.1 | 30.8 |
| 20 | 18.7 | 8.8 | 13.2 | 10.3 | 15.2 | 28.0 | 38.3 | 108.0 | 136.5 | 114.7 | 56.3 | 30.9 |
| 21 | 18.1 | 10.9 | 12.7 | 10.9 | 15.0 | 29.0 | 36.2 | 110.4 | 124.7 | 112.5 | 55.0 | 30.3 |
| 22 | 17.7 | 12.0 | 13.5 | 10.7 | 15.0 | 32.2 | 34.2 | 125.2 | 122.4 | 114.8 | 53.9 | 29.8 |
| 23 | 18.0 | 13.8 | 13.2 | 10.3 | 14.2 | 29.8 | 35.8 | 140.4 | 117.9 | 111.6 | 53.5 | 28.9 |
| 24 | 17.9 | 13.6 | 11.4 | 10.2 | 14.2 | 28.7 | 36.5 | 155.6 | 114.8 | 111.4 | 52.6 | 28.7 |
| 25 | 17.9 | 13.6 | 11.7 | 10.8 | 13.1 | 29.4 | 35.7 | 163.7 | 110.6 | 106.6 | 51.9 | 28.5 |
| 26 | 18.5 | 13.3 | 12.3 | 10.0 | 12.4 | 28.3 | 41.3 | 180.6 | 109.1 | 102.9 | 50.1 | 28.3 |
| 27 | 18.2 | 13.2 | 11.1 | 9.9 | 12.9 | 26.9 | 46.0 | 181.4 | 105.8 | 92.1 | 49.1 | 28.2 |
| 28 | 18.4 | 12.2 | 11.1 | 6.5 | 12.0 | 26.1 | 50.2 | 179.4 | 104.0 | 85.0 | 47.7 | 29.3 |
| 29 | 18.4 | - | 11.2 | 10.7 | 10.4 | 23.0 | 54.9 | 175.6 | 100.6 | 79.2 | 46.8 | 28.2 |
| 30 | 17.8 | - | 12.6 | 12.8 | 11.4 | 21.1 | 60.1 | 174.4 | 97.7 | 76.8 | 46.5 | 26.8 |
| 31 | 17.1 | - | 11.5 | - | 13.3 | - | 60.8 | 162.8 | - | 74.7 | - | 26.3 |
| Total | 612.4 | 404.9 | 392.6 | 377.3 | 621.0 | 746.5 | 1,123.9 | 3,125.3 | 3,945.2 | 3,355.8 | 1,982.5 | 1,037.1 |
| Mean | 19.8 | 14.5 | 12.7 | 12.6 | 20.0 | 24.9 | 36.3 | 100.8 | 131.5 | 108.3 | 66.1 | 33.5 |
| Max. | 181.4 | Q356= | 10.3 | Q186= | 28.7 | | | | | | | |
| Min. | 6.5 | Q276= | 16.4 | Q96= | 66.7 | | | | | | | |

*** Données de débit journalier de la rivière ***
Station : Arrivée d'eau estimée au barrage de Boali
Rivière : MBALI
Année : 1995

Unit : m3/sec

| Date | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 25.6 | 18.2 | 14.6 | 18.5 | 13.8 | 15.2 | 20.7 | 55.4 | 60.2 | 84.8 | 89.3 | 41.3 |
| 2 | 25.1 | 17.4 | 14.4 | 18.9 | 15.8 | 14.6 | 21.3 | 60.5 | 63.1 | 90.7 | 89.0 | 40.9 |
| 3 | 25.9 | 17.8 | 16.8 | 19.5 | 16.6 | 15.1 | 23.6 | 53.8 | 64.0 | 96.1 | 85.0 | 41.2 |
| 4 | 25.6 | 17.0 | 16.8 | 16.9 | 16.8 | 14.2 | 22.7 | 54.2 | 66.2 | 100.2 | 86.4 | 40.6 |
| 5 | 24.8 | 16.3 | 17.1 | 16.3 | 14.9 | 15.5 | 20.2 | 57.4 | 66.4 | 106.6 | 85.4 | 39.8 |
| 6 | 24.6 | 16.3 | 15.5 | 16.6 | 15.8 | 14.6 | 15.0 | 54.8 | 68.1 | 105.6 | 84.3 | 40.3 |
| 7 | 24.9 | 16.1 | 14.9 | 15.2 | 16.0 | 17.0 | 15.2 | 53.1 | 66.0 | 111.0 | 80.4 | 38.3 |
| 8 | 24.0 | 16.2 | 13.3 | 13.2 | 16.9 | 16.9 | 14.0 | 52.6 | 76.8 | 108.2 | 78.1 | 38.4 |
| 9 | 23.7 | 16.4 | 12.7 | 15.1 | 16.6 | 16.6 | 12.9 | 54.8 | 77.3 | 106.3 | 77.0 | 37.8 |
| 10 | 24.1 | 16.4 | 12.2 | 14.1 | 18.7 | 14.9 | 20.9 | 53.2 | 77.8 | 103.3 | 75.1 | 37.2 |
| 11 | 23.2 | 15.9 | 14.3 | 13.7 | 18.8 | 15.9 | 22.0 | 52.0 | 80.0 | 106.1 | 73.8 | 36.2 |
| 12 | 22.8 | 17.0 | 17.5 | 14.3 | 17.9 | 16.0 | 21.8 | 51.0 | 85.9 | 108.1 | 71.3 | 35.7 |
| 13 | 23.2 | 16.3 | 18.1 | 10.2 | 17.0 | 16.5 | 24.6 | 50.4 | 77.9 | 111.4 | 70.9 | 35.1 |
| 14 | 22.9 | 16.3 | 18.5 | 11.9 | 16.4 | 13.4 | 26.4 | 53.4 | 77.5 | 108.3 | 68.2 | 35.4 |
| 15 | 22.5 | 16.4 | 18.6 | 13.1 | 17.2 | 13.6 | 19.8 | 58.1 | 73.4 | 109.4 | 66.9 | 35.1 |
| 16 | 22.1 | 17.0 | 15.0 | 13.7 | 16.6 | 12.5 | 21.2 | 58.5 | 76.5 | 107.8 | 64.4 | 35.4 |
| 17 | 21.8 | 16.9 | 16.5 | 13.9 | 14.5 | 11.7 | 21.7 | 62.3 | 80.4 | 105.2 | 63.4 | 35.5 |
| 18 | 21.5 | 16.3 | 17.3 | 14.7 | 14.6 | 10.8 | 22.2 | 61.4 | 85.0 | 106.9 | 59.5 | 34.5 |
| 19 | 21.2 | 16.0 | 17.3 | 13.1 | 15.6 | 14.0 | 22.1 | 57.4 | 88.7 | 110.0 | 57.8 | 34.0 |
| 20 | 21.0 | 15.2 | 17.8 | 13.4 | 15.6 | 13.1 | 29.0 | 52.5 | 96.6 | 111.0 | 54.9 | 33.7 |
| 21 | 20.8 | 14.7 | 21.7 | 13.7 | 15.2 | 15.3 | 30.0 | 46.9 | 95.7 | 111.6 | 53.0 | 33.4 |
| 22 | 21.0 | 14.4 | 18.4 | 12.9 | 15.7 | 15.1 | 34.4 | 40.8 | 90.9 | 112.5 | 51.2 | 32.5 |
| 23 | 20.3 | 14.7 | 18.0 | 16.8 | 15.4 | 16.3 | 37.3 | 40.1 | 86.0 | 108.4 | 49.9 | 32.2 |
| 24 | 19.4 | 14.6 | 19.3 | 16.9 | 14.6 | 16.5 | 40.1 | 40.3 | 81.4 | 104.7 | 48.8 | 31.9 |
| 25 | 18.7 | 14.1 | 20.6 | 16.9 | 14.5 | 16.5 | 38.4 | 39.7 | 77.9 | 103.3 | 47.1 | 30.7 |
| 26 | 18.7 | 14.0 | 20.9 | 16.3 | 14.1 | 16.4 | 41.1 | 45.7 | 73.6 | 102.7 | 47.1 | 30.1 |
| 27 | 17.5 | 14.5 | 22.6 | 16.9 | 13.9 | 17.0 | 41.8 | 48.8 | 68.0 | 101.2 | 46.6 | 30.1 |
| 28 | 17.4 | 14.3 | 21.8 | 15.8 | 12.9 | 13.9 | 40.8 | 49.6 | 70.4 | 100.5 | 45.0 | 28.8 |
| 29 | 17.7 | - | 21.2 | 15.6 | 12.9 | 15.0 | 52.4 | 51.0 | 77.3 | 102.0 | 43.9 | 28.1 |
| 30 | 17.6 | - | 20.8 | 13.8 | 14.7 | 16.9 | 52.7 | 54.8 | 78.9 | 96.0 | 43.6 | 26.6 |
| 31 | 18.1 | - | 20.4 | - | 15.0 | - | 51.3 | 58.0 | - | 93.5 | - | 26.2 |
| Total | 678.1 | 446.7 | 544.9 | 451.8 | 485.1 | 451.0 | 877.5 | 1,622.2 | 2,308.0 | 3,233.3 | 1,957.6 | 1,077.1 |
| Mean | 21.9 | 16.0 | 17.6 | 15.1 | 15.6 | 15.0 | 28.3 | 52.3 | 76.9 | 104.3 | 65.3 | 34.7 |
| Max. | 112.5 | Q356= | 12.9 | Q186= | 22.2 | | | | | | | |
| Min. | 10.2 | Q276= | 16.3 | Q96= | 53.4 | | | | | | | |

*** Données de débit journalier de la rivière ***
Station : Arrivée d'eau estimée au barrage de Boali
Rivière : MBALI
Année : 1996

Unit : m3/sec

| Date | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 26.5 | 21.4 | 14.8 | 16.4 | 15.6 | 24.2 | 77.2 | 114.3 | 190.8 | 139.4 | 128.1 | 62.1 |
| 2 | 26.1 | 20.4 | 16.4 | 16.1 | 16.2 | 30.4 | 80.8 | 113.3 | 195.6 | 140.3 | 125.3 | 61.8 |
| 3 | 27.2 | 20.1 | 18.7 | 15.1 | 18.2 | 34.8 | 83.8 | 115.0 | 195.6 | 142.5 | 120.8 | 61.0 |
| 4 | 26.7 | 19.0 | 18.7 | 14.5 | 21.5 | 37.8 | 88.2 | 118.1 | 187.2 | 142.3 | 117.2 | 61.0 |
| 5 | 26.1 | 18.4 | 19.4 | 14.5 | 22.0 | 41.5 | 88.4 | 116.6 | 184.0 | 143.5 | 113.1 | 59.5 |
| 6 | 25.8 | 17.9 | 19.6 | 14.4 | 20.0 | 47.5 | 90.5 | 107.0 | 175.6 | 145.7 | 109.5 | 60.1 |
| 7 | 25.5 | 18.6 | 17.4 | 13.6 | 20.2 | 42.4 | 89.6 | 115.3 | 167.7 | 148.0 | 104.3 | 59.1 |
| 8 | 24.5 | 18.6 | 16.0 | 12.9 | 18.0 | 42.2 | 86.8 | 117.1 | 161.6 | 155.5 | 100.3 | 58.3 |
| 9 | 23.5 | 18.6 | 16.2 | 13.6 | 15.8 | 43.3 | 79.1 | 121.8 | 153.4 | 161.3 | 95.8 | 57.4 |
| 10 | 23.3 | 18.5 | 16.4 | 13.8 | 16.7 | 44.5 | 78.1 | 127.4 | 154.4 | 168.9 | 92.5 | 56.6 |
| 11 | 23.0 | 18.2 | 16.7 | 13.4 | 15.4 | 44.5 | 78.2 | 135.2 | 158.9 | 169.2 | 88.5 | 56.0 |
| 12 | 23.4 | 17.5 | 17.5 | 15.1 | 15.1 | 43.1 | 78.2 | 138.1 | 162.2 | 174.8 | 84.7 | 55.4 |
| 13 | 23.8 | 16.4 | 16.4 | 16.4 | 19.7 | 38.9 | 75.8 | 141.1 | 165.5 | 171.4 | 81.0 | 54.0 |
| 14 | 24.4 | 16.0 | 13.4 | 15.9 | 17.3 | 34.7 | 81.2 | 143.4 | 168.7 | 169.5 | 79.1 | 54.0 |
| 15 | 24.3 | 15.9 | 11.8 | 15.9 | 14.6 | 30.0 | 86.2 | 137.7 | 168.2 | 165.6 | 77.6 | 53.3 |
| 16 | 23.5 | 15.8 | 12.3 | 16.4 | 15.6 | 24.5 | 89.1 | 142.3 | 165.0 | 165.0 | 75.3 | 52.7 |
| 17 | 23.2 | 16.2 | 11.8 | 14.8 | 14.6 | 19.4 | 88.9 | 137.1 | 162.3 | 161.8 | 76.8 | 51.4 |
| 18 | 22.7 | 16.1 | 12.2 | 11.4 | 11.2 | 20.9 | 94.2 | 135.7 | 157.9 | 157.5 | 75.2 | 50.8 |
| 19 | 22.1 | 16.2 | 15.8 | 11.3 | 13.5 | 23.4 | 98.9 | 134.3 | 159.1 | 154.3 | 74.6 | 49.4 |
| 20 | 21.9 | 15.2 | 16.7 | 11.4 | 15.2 | 31.1 | 91.9 | 139.4 | 154.6 | 150.2 | 72.1 | 49.5 |
| 21 | 21.8 | 14.1 | 16.7 | 12.8 | 10.1 | 33.2 | 91.9 | 137.8 | 154.9 | 148.2 | 71.7 | 48.1 |
| 22 | 20.9 | 13.9 | 17.2 | 12.6 | 12.9 | 34.3 | 94.9 | 141.0 | 152.8 | 143.4 | 69.3 | 48.1 |
| 23 | 15.9 | 15.0 | 18.0 | 17.3 | 14.3 | 38.4 | 96.2 | 138.8 | 153.4 | 144.3 | 68.2 | 47.4 |
| 24 | 18.5 | 15.1 | 15.6 | 14.6 | 15.7 | 44.6 | 96.3 | 144.1 | 152.6 | 145.2 | 67.1 | 47.4 |
| 25 | 18.8 | 16.2 | 18.1 | 15.4 | 21.8 | 45.7 | 105.4 | 155.2 | 154.9 | 143.2 | 67.8 | 46.7 |
| 26 | 19.7 | 16.9 | 17.5 | 13.8 | 28.1 | 54.5 | 106.7 | 161.6 | 148.4 | 143.1 | 67.9 | 46.6 |
| 27 | 20.8 | 16.0 | 17.9 | 15.1 | 31.3 | 65.2 | 109.7 | 163.6 | 144.6 | 144.8 | 66.6 | 45.0 |
| 28 | 25.4 | 15.6 | 18.3 | 12.2 | 34.7 | 70.9 | 110.3 | 174.2 | 141.8 | 140.9 | 67.3 | 45.0 |
| 29 | 23.0 | 15.5 | 19.6 | 14.0 | 35.8 | 70.4 | 111.9 | 177.4 | 141.0 | 139.0 | 65.4 | 44.1 |
| 30 | 22.5 | - | 16.9 | 13.0 | 31.0 | 75.5 | 106.9 | 181.2 | 136.9 | 137.6 | 64.6 | 38.3 |
| 31 | 21.9 | - | 16.8 | - | 30.9 | - | 108.5 | 182.3 | - | 133.2 | - | 35.5 |
| Total | 716.7 | 493.3 | 510.8 | 427.7 | 602.7 | 1,231.9 | 2,843.7 | 4,307.2 | 4,870.0 | 4,689.6 | 2,567.7 | 1,615.6 |
| Mean | 23.1 | 17.0 | 16.5 | 14.3 | 19.4 | 41.1 | 91.7 | 138.9 | 162.3 | 151.3 | 85.6 | 52.1 |
| Max. | 195.6 | Q356= | 12.6 | Q186= | 45.7 | | | | | | | |
| Min. | 10.1 | Q276= | 18.0 | Q96= | 113.1 | | | | | | | |

*** Données de débit journalier de la rivière ***

Station : Arrivée d'eau estimée au barrage de Boali

Rivière : MBALI

Année : 1997

Unit : m3/sec

| Date | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 34.7 | 27.3 | 17.8 | 21.9 | 28.0 | 20.4 | 54.9 | 48.9 | 108.2 | 62.8 | 69.6 | 37.3 |
| 2 | 37.2 | 26.0 | 18.3 | 23.4 | 24.7 | 21.8 | 55.8 | 49.6 | 105.1 | 63.0 | 69.8 | 37.3 |
| 3 | 40.8 | 26.0 | 18.1 | 23.4 | 22.8 | 24.7 | 55.1 | 51.5 | 99.0 | 61.5 | 68.0 | 37.0 |
| 4 | 40.0 | 24.8 | 17.4 | 27.5 | 22.6 | 21.7 | 55.1 | 55.0 | 95.7 | 61.9 | 68.6 | 36.4 |
| 5 | 39.5 | 25.0 | 17.4 | 22.4 | 22.1 | 23.3 | 51.5 | 61.2 | 92.5 | 62.1 | 70.2 | 35.2 |
| 6 | 38.9 | 23.8 | 17.7 | 22.3 | 21.8 | 24.2 | 45.5 | 64.0 | 90.2 | 65.6 | 68.7 | 34.5 |
| 7 | 39.2 | 24.0 | 17.0 | 22.2 | 22.4 | 23.0 | 42.6 | 71.3 | 88.5 | 65.9 | 67.2 | 34.5 |
| 8 | 38.6 | 23.6 | 17.1 | 21.5 | 22.3 | 23.6 | 37.8 | 76.7 | 87.3 | 67.4 | 70.2 | 33.2 |
| 9 | 40.2 | 23.7 | 17.2 | 21.7 | 20.1 | 23.6 | 34.8 | 81.2 | 81.6 | 66.5 | 67.2 | 32.8 |
| 10 | 40.5 | 22.4 | 18.1 | 20.9 | 20.5 | 22.3 | 29.6 | 81.4 | 82.5 | 65.9 | 65.1 | 32.3 |
| 11 | 40.5 | 21.9 | 17.7 | 18.7 | 20.8 | 20.4 | 33.6 | 80.6 | 79.4 | 66.0 | 62.5 | 32.0 |
| 12 | 39.9 | 21.3 | 18.6 | 14.2 | 21.0 | 24.8 | 33.9 | 79.4 | 75.7 | 69.2 | 61.3 | 31.0 |
| 13 | 40.3 | 20.1 | 17.6 | 15.6 | 20.5 | 27.9 | 34.2 | 77.9 | 72.0 | 67.6 | 56.0 | 31.2 |
| 14 | 39.3 | 20.1 | 12.7 | 15.7 | 24.1 | 29.8 | 35.7 | 80.9 | 72.6 | 68.1 | 52.1 | 29.8 |
| 15 | 38.8 | 20.1 | 13.9 | 11.1 | 23.5 | 26.9 | 42.7 | 79.6 | 68.8 | 66.9 | 48.1 | 29.1 |
| 16 | 37.6 | 20.1 | 15.3 | 13.2 | 25.4 | 35.4 | 42.3 | 83.3 | 63.3 | 65.5 | 47.2 | 27.6 |
| 17 | 37.6 | 20.2 | 15.3 | 18.3 | 22.7 | 34.3 | 41.6 | 84.4 | 63.8 | 59.7 | 41.7 | 27.6 |
| 18 | 36.3 | 20.3 | 16.0 | 17.7 | 22.8 | 31.0 | 41.9 | 83.8 | 63.9 | 58.9 | 43.5 | 26.3 |
| 19 | 35.6 | 19.3 | 20.3 | 18.3 | 20.3 | 33.6 | 39.9 | 81.7 | 64.6 | 54.1 | 45.7 | 26.6 |
| 20 | 33.4 | 19.7 | 18.5 | 23.5 | 20.0 | 40.5 | 37.3 | 84.1 | 65.1 | 52.2 | 46.0 | 26.7 |
| 21 | 33.3 | 20.1 | 18.9 | 22.4 | 15.6 | 33.2 | 35.1 | 79.9 | 67.8 | 49.9 | 45.8 | 26.9 |
| 22 | 31.1 | 18.7 | 18.7 | 22.5 | 17.6 | 37.2 | 34.2 | 74.5 | 68.9 | 50.1 | 48.1 | 25.6 |
| 23 | 30.8 | 19.1 | 20.0 | 21.9 | 18.2 | 34.1 | 35.3 | 75.8 | 71.1 | 49.2 | 47.1 | 25.9 |
| 24 | 29.9 | 18.6 | 20.8 | 20.9 | 17.3 | 34.7 | 37.8 | 75.1 | 71.7 | 50.5 | 45.8 | 25.7 |
| 25 | 29.1 | 17.8 | 18.1 | 21.6 | 17.0 | 38.0 | 38.1 | 75.2 | 73.4 | 53.1 | 45.3 | 25.5 |
| 26 | 28.4 | 17.6 | 18.7 | 20.8 | 19.6 | 44.2 | 40.0 | 77.8 | 74.6 | 56.1 | 42.7 | 25.4 |
| 27 | 29.2 | 19.2 | 19.8 | 23.2 | 19.2 | 45.1 | 41.8 | 82.4 | 73.2 | 56.6 | 40.5 | 26.2 |
| 28 | 28.8 | 18.3 | 17.8 | 24.9 | 17.2 | 54.3 | 42.8 | 86.5 | 70.8 | 61.6 | 39.1 | 26.1 |
| 29 | 27.8 | - | 18.3 | 25.8 | 16.6 | 54.8 | 44.9 | 94.6 | 70.3 | 64.0 | 37.8 | 25.2 |
| 30 | 28.8 | - | 17.4 | 26.5 | 19.5 | 54.6 | 44.7 | 99.0 | 68.6 | 65.9 | 36.8 | 24.7 |
| 31 | 27.7 | - | 21.4 | - | 19.3 | - | 45.1 | 101.0 | - | 66.2 | - | 24.6 |
| Total | 1,093.7 | 599.3 | 551.9 | 624.1 | 645.5 | 963.5 | 1,285.5 | 2,378.3 | 2,329.9 | 1,894.0 | 1,617.7 | 920.4 |
| Mean | 35.3 | 21.4 | 17.8 | 20.8 | 20.8 | 32.1 | 41.5 | 76.7 | 77.7 | 61.1 | 53.9 | 29.7 |
| Max. | 108.2 | Q356= | 15.7 | Q186= | 34.2 | | | | | | | |
| Min. | 11.1 | Q276= | 22.1 | Q96= | 55.1 | | | | | | | |

*** Données de débit journalier de la rivière ***
Station : Arrivée d'eau estimée au barrage de Boali
Rivière : MBALI
Année : 1998

Unit : m3/sec

| Date | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 22.8 | 21.4 | 15.0 | 12.5 | 14.8 | 15.9 | 20.7 | 37.1 | 132.0 | 140.1 | 137.4 | 62.3 |
| 2 | 22.5 | 20.5 | 16.2 | 13.9 | 16.7 | 13.5 | 19.9 | 41.9 | 136.8 | 143.1 | 133.9 | 60.3 |
| 3 | 22.5 | 18.8 | 18.1 | 13.0 | 16.2 | 13.6 | 21.3 | 39.5 | 139.7 | 143.0 | 132.1 | 59.0 |
| 4 | 21.2 | 19.0 | 19.5 | 12.2 | 16.3 | 14.0 | 22.0 | 39.6 | 129.4 | 139.4 | 131.8 | 58.5 |
| 5 | 21.2 | 19.3 | 20.3 | 13.5 | 15.9 | 13.2 | 21.1 | 40.3 | 120.9 | 135.1 | 132.5 | 57.2 |
| 6 | 22.6 | 19.0 | 21.9 | 11.6 | 17.9 | 13.7 | 19.7 | 45.4 | 123.4 | 133.3 | 131.6 | 55.9 |
| 7 | 22.8 | 20.9 | 20.4 | 10.6 | 17.1 | 16.3 | 21.3 | 47.9 | 122.9 | 135.4 | 130.3 | 55.8 |
| 8 | 22.6 | 19.1 | 17.9 | 10.5 | 20.4 | 15.3 | 17.4 | 57.0 | 126.6 | 137.6 | 129.5 | 55.0 |
| 9 | 23.3 | 19.8 | 15.4 | 9.3 | 25.0 | 21.7 | 21.8 | 65.4 | 125.7 | 138.4 | 128.0 | 54.6 |
| 10 | 23.3 | 19.1 | 12.9 | 8.1 | 32.0 | 27.1 | 25.7 | 71.3 | 133.7 | 143.9 | 126.4 | 55.9 |
| 11 | 22.0 | 19.0 | 8.2 | 7.2 | 33.0 | 34.2 | 28.7 | 71.2 | 130.0 | 149.6 | 125.5 | 55.9 |
| 12 | 20.5 | 17.6 | 6.5 | 8.3 | 35.7 | 39.4 | 38.0 | 74.6 | 125.0 | 150.7 | 123.5 | 54.9 |
| 13 | 19.7 | 18.7 | 9.0 | 9.5 | 34.6 | 47.2 | 43.9 | 77.8 | 126.4 | 148.6 | 119.6 | 55.1 |
| 14 | 20.3 | 16.8 | 9.7 | 11.1 | 31.2 | 45.7 | 40.7 | 77.1 | 132.1 | 148.9 | 113.0 | 54.2 |
| 15 | 19.1 | 15.7 | 10.2 | 11.5 | 29.6 | 45.5 | 41.1 | 81.4 | 137.9 | 146.1 | 107.5 | 52.6 |
| 16 | 20.4 | 14.5 | 12.5 | 13.9 | 27.8 | 42.8 | 43.6 | 82.6 | 146.9 | 143.1 | 99.8 | 51.5 |
| 17 | 20.3 | 14.6 | 14.4 | 11.6 | 25.4 | 39.6 | 41.3 | 75.0 | 155.5 | 142.2 | 91.8 | 51.3 |
| 18 | 20.1 | 14.3 | 11.2 | 12.1 | 22.7 | 36.9 | 45.7 | 74.6 | 157.3 | 145.0 | 85.5 | 49.2 |
| 19 | 18.7 | 15.1 | 10.9 | 11.9 | 20.5 | 33.5 | 54.9 | 71.7 | 159.6 | 146.5 | 81.9 | 48.2 |
| 20 | 19.8 | 15.3 | 11.8 | 12.4 | 17.7 | 31.6 | 57.6 | 73.2 | 156.8 | 150.6 | 78.7 | 48.0 |
| 21 | 17.4 | 16.0 | 12.6 | 13.2 | 16.1 | 27.6 | 59.2 | 78.4 | 149.0 | 151.2 | 76.3 | 47.2 |
| 22 | 19.3 | 15.4 | 11.6 | 13.8 | 15.0 | 28.1 | 59.7 | 89.4 | 146.1 | 152.0 | 76.1 | 46.4 |
| 23 | 19.9 | 15.2 | 12.4 | 13.4 | 14.0 | 25.9 | 61.9 | 91.4 | 142.7 | 152.5 | 74.6 | 46.3 |
| 24 | 20.6 | 15.8 | 13.2 | 13.0 | 13.9 | 26.9 | 58.3 | 98.4 | 140.0 | 150.3 | 72.5 | 45.7 |
| 25 | 19.9 | 16.1 | 13.5 | 11.0 | 13.4 | 21.0 | 59.3 | 98.0 | 135.7 | 145.8 | 69.6 | 45.2 |
| 26 | 22.9 | 16.0 | 13.8 | 10.0 | 11.7 | 21.6 | 56.8 | 99.3 | 135.2 | 145.1 | 68.1 | 44.5 |
| 27 | 21.1 | 15.3 | 14.1 | 10.4 | 13.3 | 18.9 | 55.4 | 100.0 | 131.5 | 142.8 | 66.9 | 43.7 |
| 28 | 21.5 | 15.4 | 13.8 | 12.1 | 14.6 | 17.4 | 47.6 | 104.2 | 131.7 | 141.6 | 65.3 | 43.7 |
| 29 | 22.8 | - | 13.1 | 13.6 | 14.8 | 14.8 | 43.7 | 105.3 | 134.4 | 142.4 | 64.7 | 42.5 |
| 30 | 21.8 | - | 13.5 | 13.8 | 15.3 | 19.1 | 40.2 | 119.2 | 138.8 | 141.8 | 63.5 | 41.9 |
| 31 | 20.6 | - | 12.0 | - | 17.6 | - | 39.2 | 125.6 | - | 138.5 | - | 41.4 |
| Total | 653.9 | 483.9 | 425.6 | 349.0 | 630.2 | 782.1 | 1,228.0 | 2,353.5 | 4,103.5 | 4,464.8 | 3,037.8 | 1,583.9 |
| Mean | 21.1 | 17.3 | 13.7 | 11.6 | 20.3 | 26.1 | 39.6 | 75.9 | 136.8 | 144.0 | 101.3 | 51.1 |
| Max. | 159.6 | Q356= | 10.0 | Q186= | 32.0 | | | | | | | |
| Min. | 6.5 | Q276= | 16.2 | Q96= | 77.1 | | | | | | | |

# Tableau 3 Exemple de calcul du bilan hydrologique du barrage de Boali(1988)

Spill Way 572.00 m
LWL : 552.00 m
548.50 m

Year : 1988 Outflow discha: 25.00 m³/s

| Month | Day | WL | Wd | V | A | P | Evap | Qin | Qof | Qv | Qout | Pv | Evapv | Qinv | Qoutv |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | m | m | x1000 m³ | x1000 m² | mm | mm | m³/s | m³/s | m³/s | m³/s | x1000m³ | x1000m³ | x1000 m³ | x1000 m³ |
| | | 564.63 | 16.13 | 94,014 | 14,687 | | | | | | | | | | |
| Jan. | 1 | 564.51 | 16.01 | 92,226 | 14,473 | 0.0 | 5.0 | 5.0 | 0.0 | 25.0 | 25.0 | 0.0 | 58.7 | 431.1 | 2160.0 |
| | 2 | 564.40 | 15.90 | 90,479 | 14,263 | 0.0 | 5.0 | 5.5 | 0.0 | 25.0 | 25.0 | 0.0 | 57.9 | 470.9 | 2160.0 |
| | 3 | 564.33 | 15.83 | 89,524 | 14,148 | 56.0 | 5.0 | 5.4 | 0.0 | 25.0 | 25.0 | 798.7 | 57.1 | 463.1 | 2160.0 |
| | 4 | 564.22 | 15.72 | 87,832 | 13,943 | 0.0 | 5.0 | 6.1 | 0.0 | 25.0 | 25.0 | 0.0 | 56.6 | 524.4 | 2160.0 |
| | 5 | 564.11 | 15.61 | 86,320 | 13,759 | 0.0 | 5.0 | 8.1 | 0.0 | 25.0 | 25.0 | 0.0 | 55.8 | 703.3 | 2160.0 |
| | 6 | 564.00 | 15.50 | 84,721 | 13,564 | 0.0 | 5.0 | 7.1 | 0.0 | 25.0 | 25.0 | 0.0 | 55.0 | 616.0 | 2160.0 |
| | 7 | 563.88 | 15.38 | 83,006 | 13,354 | 0.0 | 5.0 | 5.8 | 0.0 | 25.0 | 25.0 | 0.0 | 54.3 | 459.4 | 2160.0 |
| | 8 | 563.75 | 15.25 | 81,281 | 13,142 | 0.0 | 5.0 | 5.7 | 0.0 | 25.0 | 25.0 | 0.0 | 53.4 | 489.0 | 2160.0 |
| | 9 | 563.64 | 15.14 | 79,746 | 12,952 | 0.0 | 5.0 | 7.8 | 0.0 | 25.0 | 25.0 | 0.0 | 52.6 | 677.4 | 2160.0 |
| | 10 | 563.52 | 15.02 | 78,144 | 12,753 | 0.0 | 5.0 | 7.1 | 0.0 | 25.0 | 25.0 | 0.0 | 51.8 | 610.0 | 2160.0 |
| | 11 | 563.40 | 14.90 | 76,514 | 12,549 | 0.0 | 5.0 | 6.7 | 0.0 | 25.0 | 25.0 | 0.0 | 51.0 | 580.6 | 2160.0 |
| | 12 | 563.28 | 14.78 | 74,816 | 12,336 | 0.0 | 5.0 | 5.9 | 0.0 | 25.0 | 25.0 | 0.0 | 50.2 | 512.4 | 2160.0 |
| | 13 | 563.14 | 14.64 | 73,037 | 12,111 | 0.0 | 5.0 | 5.0 | 0.0 | 25.0 | 25.0 | 0.0 | 49.3 | 430.3 | 2160.0 |
| | 14 | 562.99 | 14.49 | 71,182 | 11,875 | 0.0 | 5.0 | 4.1 | 0.0 | 25.0 | 25.0 | 0.0 | 48.4 | 353.4 | 2160.0 |
| | 15 | 562.85 | 14.35 | 69,335 | 11,639 | 0.0 | 5.0 | 4.2 | 0.0 | 25.0 | 25.0 | 0.0 | 47.5 | 360.3 | 2160.0 |
| | 16 | 562.70 | 14.20 | 67,501 | 11,403 | 0.0 | 5.0 | 4.3 | 0.0 | 25.0 | 25.0 | 0.0 | 46.6 | 373.2 | 2160.0 |
| | 17 | 562.55 | 14.05 | 65,671 | 11,166 | 0.0 | 5.0 | 4.3 | 0.0 | 25.0 | 25.0 | 0.0 | 45.6 | 375.0 | 2160.0 |
| | 18 | 562.40 | 13.90 | 63,849 | 10,929 | 0.0 | 5.0 | 4.4 | 0.0 | 25.0 | 25.0 | 0.0 | 44.7 | 382.8 | 2160.0 |
| | 19 | 562.24 | 13.74 | 61,996 | 10,686 | 0.0 | 5.0 | 4.1 | 0.0 | 25.0 | 25.0 | 0.0 | 43.7 | 350.8 | 2160.0 |
| | 20 | 562.08 | 13.58 | 60,140 | 10,441 | 0.0 | 5.0 | 4.0 | 0.0 | 25.0 | 25.0 | 0.0 | 42.7 | 347.3 | 2160.0 |
| | 21 | 561.92 | 13.42 | 58,265 | 10,191 | 0.0 | 5.0 | 3.8 | 0.0 | 25.0 | 25.0 | 0.0 | 41.8 | 326.6 | 2160.0 |
| | 22 | 561.75 | 13.25 | 56,388 | 9,939 | 0.0 | 5.0 | 3.7 | 0.0 | 25.0 | 25.0 | 0.0 | 40.8 | 323.1 | 2160.0 |
| | 23 | 561.58 | 13.08 | 54,490 | 9,683 | 0.0 | 5.0 | 3.5 | 0.0 | 25.0 | 25.0 | 0.0 | 39.8 | 302.4 | 2160.0 |
| | 24 | 561.40 | 12.90 | 52,592 | 9,424 | 0.0 | 5.0 | 3.5 | 0.0 | 25.0 | 25.0 | 0.0 | 38.7 | 300.7 | 2160.0 |
| | 25 | 561.22 | 12.72 | 50,695 | 9,163 | 0.0 | 5.0 | 3.5 | 0.0 | 25.0 | 25.0 | 0.0 | 37.7 | 300.7 | 2160.0 |
| | 26 | 561.03 | 12.53 | 48,788 | 8,899 | 0.0 | 5.0 | 3.4 | 0.0 | 25.0 | 25.0 | 0.0 | 36.7 | 289.4 | 2160.0 |
| | 27 | 560.84 | 12.34 | 46,858 | 8,629 | 0.0 | 5.0 | 3.1 | 0.0 | 25.0 | 25.0 | 0.0 | 35.6 | 265.2 | 2160.0 |
| | 28 | 560.64 | 12.14 | 44,915 | 8,354 | 0.0 | 5.0 | 2.9 | 0.0 | 25.0 | 25.0 | 0.0 | 34.5 | 252.3 | 2160.0 |
| | 29 | 560.44 | 11.94 | 42,973 | 8,077 | 0.0 | 5.0 | 2.9 | 0.0 | 25.0 | 25.0 | 0.0 | 33.4 | 250.6 | 2160.0 |
| | 30 | 560.22 | 11.72 | 41,010 | 7,793 | 0.0 | 5.0 | 2.7 | 0.0 | 25.0 | 25.0 | 0.0 | 32.3 | 229.8 | 2160.0 |
| | 31 | 560.01 | 11.51 | 39,047 | 7,507 | 0.0 | 5.0 | 2.6 | 0.0 | 25.0 | 25.0 | 0.0 | 31.2 | 228.1 | 2160.0 |
| Feb. | 1 | 559.78 | 11.28 | 37,088 | 7,217 | 0.0 | 5.0 | 2.7 | 0.0 | 25.0 | 25.0 | 0.0 | 30.0 | 230.7 | 2160.0 |
| | 2 | 559.55 | 11.05 | 35,160 | 6,929 | 0.0 | 5.0 | 3.0 | 0.0 | 25.0 | 25.0 | 0.0 | 28.9 | 260.9 | 2160.0 |
| | 3 | 559.31 | 10.81 | 33,224 | 6,636 | 0.0 | 5.0 | 2.9 | 0.0 | 25.0 | 25.0 | 0.0 | 27.7 | 252.3 | 2160.0 |
| | 4 | 559.06 | 10.56 | 31,279 | 6,337 | 0.0 | 5.0 | 2.8 | 0.0 | 25.0 | 25.0 | 0.0 | 26.5 | 241.1 | 2160.0 |
| | 5 | 558.82 | 10.32 | 29,435 | 6,049 | 17.9 | 5.0 | 2.6 | 0.0 | 25.0 | 25.0 | 113.4 | 25.3 | 228.1 | 2160.0 |
| | 6 | 558.55 | 10.05 | 27,477 | 5,740 | 0.0 | 5.0 | 2.6 | 0.0 | 25.0 | 25.0 | 0.0 | 24.2 | 226.4 | 2160.0 |
| | 7 | 558.27 | 9.77 | 25,500 | 5,421 | 0.0 | 5.0 | 2.4 | 0.0 | 25.0 | 25.0 | 0.0 | 23.0 | 205.6 | 2160.0 |
| | 8 | 557.97 | 9.47 | 23,524 | 5,097 | 0.0 | 5.0 | 2.4 | 0.0 | 25.0 | 25.0 | 0.0 | 21.7 | 205.6 | 2160.0 |
| | 9 | 557.68 | 9.18 | 21,707 | 4,794 | 0.0 | 5.0 | 4.2 | 0.0 | 25.0 | 25.0 | 0.0 | 20.4 | 363.7 | 2160.0 |
| | 10 | 557.37 | 8.87 | 19,837 | 4,475 | 1.5 | 5.0 | 3.5 | 0.0 | 25.0 | 25.0 | 7.2 | 19.2 | 301.5 | 2160.0 |
| | 11 | 557.04 | 8.54 | 17,995 | 4,154 | 19.6 | 5.0 | 2.9 | 0.0 | 25.0 | 25.0 | 87.7 | 17.9 | 248.8 | 2160.0 |
| | 12 | 556.69 | 8.19 | 16,147 | 3,824 | 0.0 | 5.0 | 3.8 | 0.0 | 25.0 | 25.0 | 0.0 | 16.6 | 328.3 | 2160.0 |
| | 13 | 556.31 | 7.81 | 14,253 | 3,476 | 0.0 | 5.0 | 3.3 | 0.0 | 25.0 | 25.0 | 0.0 | 15.3 | 280.8 | 2160.0 |
| | 14 | 555.89 | 7.39 | 12,357 | 3,117 | 0.0 | 5.0 | 3.2 | 0.0 | 25.0 | 25.0 | 0.0 | 13.9 | 278.2 | 2160.0 |
| | 15 | 555.44 | 6.94 | 10,491 | 2,751 | 0.0 | 5.0 | 3.6 | 0.0 | 25.0 | 25.0 | 0.0 | 12.5 | 306.7 | 2160.0 |
| | 16 | 554.93 | 6.43 | 8,601 | 2,364 | 0.0 | 5.0 | 3.3 | 0.0 | 25.0 | 25.0 | 0.0 | 11.0 | 280.8 | 2160.0 |
| | 17 | 554.34 | 5.84 | 6,706 | 1,955 | 0.0 | 5.0 | 3.2 | 0.0 | 25.0 | 25.0 | 0.0 | 9.5 | 274.8 | 2160.0 |
| | 18 | 553.63 | 5.13 | 4,792 | 1,512 | 0.0 | 5.0 | 2.9 | 0.0 | 25.0 | 25.0 | 0.0 | 7.8 | 254.0 | 2160.0 |
| | 19 | 552.72 | 4.22 | 2,879 | 1,024 | 0.0 | 5.0 | 2.9 | 0.0 | 25.0 | 25.0 | 0.0 | 6.0 | 252.3 | 2160.0 |
| | 20 | 552.72 | 4.22 | 2,875 | 1,023 | 0.0 | 5.0 | 2.9 | 0.0 | 2.9 | 2.9 | 0.0 | 4.1 | 252.3 | 252.3 |
| | 21 | 552.72 | 4.22 | 2,870 | 1,022 | 0.0 | 5.0 | 2.9 | 0.0 | 2.9 | 2.9 | 0.0 | 4.1 | 249.7 | 249.7 |
| | 22 | 552.71 | 4.21 | 2,866 | 1,021 | 0.0 | 5.0 | 2.3 | 0.0 | 2.3 | 2.3 | 0.0 | 4.1 | 195.3 | 195.3 |
| | 23 | 552.71 | 4.21 | 2,862 | 1,020 | 0.0 | 5.0 | 1.8 | 0.0 | 1.8 | 1.8 | 0.0 | 4.1 | 156.4 | 156.4 |
| | 24 | 552.71 | 4.21 | 2,858 | 1,019 | 0.0 | 5.0 | 1.6 | 0.0 | 1.6 | 1.6 | 0.0 | 4.1 | 140.8 | 140.8 |
| | 25 | 552.71 | 4.21 | 2,854 | 1,018 | 0.0 | 5.0 | 1.5 | 0.0 | 1.5 | 1.5 | 0.0 | 4.1 | 126.1 | 126.1 |
| | 26 | 552.70 | 4.20 | 2,850 | 1,017 | 0.0 | 5.0 | 1.4 | 0.0 | 1.4 | 1.4 | 0.0 | 4.1 | 124.4 | 124.4 |
| | 27 | 552.70 | 4.20 | 2,846 | 1,016 | 0.0 | 5.0 | 1.4 | 0.0 | 1.4 | 1.4 | 0.0 | 4.1 | 124.4 | 124.4 |
| | 28 | 552.70 | 4.20 | 2,842 | 1,015 | 0.0 | 5.0 | 1.4 | 0.0 | 1.4 | 1.4 | 0.0 | 4.1 | 124.4 | 124.4 |
| | 29 | 552.70 | 4.20 | 2,838 | 1,013 | 0.0 | 5.0 | 1.4 | 0.0 | 1.4 | 1.4 | 0.0 | 4.1 | 123.6 | 123.6 |
| Mar. | 1 | 552.69 | 4.19 | 2,834 | 1,012 | 0.0 | 5.0 | 1.4 | 0.0 | 1.4 | 1.4 | 0.0 | 4.1 | 119.2 | 119.2 |
| | 2 | 552.69 | 4.19 | 2,830 | 1,011 | 0.0 | 5.0 | 0.9 | 0.0 | 0.9 | 0.9 | 0.0 | 4.0 | 75.9 | 75.9 |
| | 3 | 552.69 | 4.19 | 2,826 | 1,010 | 0.0 | 5.0 | 1.3 | 0.0 | 1.3 | 1.3 | 0.0 | 4.0 | 108.0 | 108.0 |
| | 4 | 552.70 | 4.20 | 2,840 | 1,014 | 18.3 | 5.0 | 1.0 | 0.0 | 1.0 | 1.0 | 18.5 | 4.0 | 84.9 | 84.9 |
| | 5 | 552.70 | 4.20 | 2,836 | 1,013 | 0.0 | 5.0 | 0.7 | 0.0 | 0.7 | 0.7 | 0.0 | 4.1 | 58.7 | 58.7 |
| | 6 | 552.69 | 4.19 | 2,832 | 1,012 | 0.0 | 5.0 | 1.1 | 0.0 | 1.1 | 1.1 | 0.0 | 4.1 | 95.9 | 95.9 |
| | 7 | 552.69 | 4.19 | 2,828 | 1,011 | 0.0 | 5.0 | 0.8 | 0.0 | 0.8 | 0.8 | 0.0 | 4.0 | 70.2 | 70.2 |
| | 8 | 552.69 | 4.19 | 2,824 | 1,010 | 0.0 | 5.0 | 0.7 | 0.0 | 0.7 | 0.7 | 0.0 | 4.0 | 64.5 | 64.5 |
| | 9 | 552.69 | 4.19 | 2,820 | 1,008 | 0.0 | 5.0 | 3.4 | 0.0 | 3.4 | 3.4 | 0.0 | 4.0 | 290.3 | 290.3 |
| | 10 | 552.69 | 4.19 | 2,820 | 1,008 | 4.0 | 5.0 | 6.3 | 0.0 | 6.3 | 6.3 | 4.0 | 4.0 | 540.0 | 540.0 |
| | 11 | 552.68 | 4.18 | 2,816 | 1,007 | 0.0 | 5.0 | 4.9 | 0.0 | 4.9 | 4.9 | 0.0 | 4.0 | 426.0 | 426.0 |
| | 12 | 552.69 | 4.19 | 2,829 | 1,011 | 16.8 | 5.0 | 4.6 | 0.0 | 4.6 | 4.6 | 16.9 | 4.0 | 399.2 | 399.2 |

Year : 1988 Outflow discha: 25.00 m³/s

| Month | Day | WL | Wd | V | A | P | Evap | Qin | Qof | Qv | Qout | Pv | Evapv | Qinv | Qoutv |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | m | m | x1000 m³ | x1000 m² | mm | mm | m³/s | m³/s | m³/s | m³/s | x1000m³ | x1000m³ | x1000 m³ | x1000 m³ |
| | 13 | 552.69 | 4.19 | 2,828 | 1,011 | 3.5 | 5.0 | 4.1 | 0.0 | 4.1 | 4.1 | 3.5 | 4.0 | 352.5 | 352.5 |
| | 14 | 552.69 | 4.19 | 2,824 | 1,010 | 0.0 | 5.0 | 3.8 | 0.0 | 3.8 | 3.8 | 0.0 | 4.0 | 328.3 | 328.3 |
| | 15 | 552.69 | 4.19 | 2,820 | 1,009 | 0.0 | 5.0 | 3.5 | 0.0 | 3.5 | 3.5 | 0.0 | 4.0 | 303.3 | 303.3 |
| | 16 | 552.68 | 4.18 | 2,816 | 1,007 | 0.0 | 5.0 | 4.5 | 0.0 | 4.5 | 4.5 | 0.0 | 4.0 | 385.3 | 385.3 |
| | 17 | 552.69 | 4.19 | 2,830 | 1,011 | 17.6 | 5.0 | 5.3 | 0.0 | 5.3 | 5.3 | 17.7 | 4.0 | 455.3 | 455.3 |
| | 18 | 552.69 | 4.19 | 2,826 | 1,010 | 0.0 | 5.0 | 4.2 | 0.0 | 4.2 | 4.2 | 0.0 | 4.0 | 359.4 | 359.4 |
| | 19 | 552.69 | 4.19 | 2,822 | 1,009 | 0.0 | 5.0 | 3.3 | 0.0 | 3.3 | 3.3 | 0.0 | 4.0 | 287.7 | 287.7 |
| | 20 | 552.69 | 4.19 | 2,818 | 1,008 | 0.0 | 5.0 | 2.8 | 0.0 | 2.8 | 2.8 | 0.0 | 4.0 | 244.5 | 244.5 |
| | 21 | 552.68 | 4.18 | 2,814 | 1,007 | 0.0 | 5.0 | 3.3 | 0.0 | 3.3 | 3.3 | 0.0 | 4.0 | 288.6 | 288.6 |
| | 22 | 552.69 | 4.19 | 2,827 | 1,011 | 17.6 | 5.0 | 3.9 | 0.0 | 3.9 | 3.9 | 17.7 | 4.0 | 332.6 | 332.6 |
| | 23 | 552.69 | 4.19 | 2,823 | 1,009 | 0.0 | 5.0 | 3.4 | 0.0 | 3.4 | 3.4 | 0.0 | 4.0 | 292.9 | 292.9 |
| | 24 | 552.69 | 4.19 | 2,820 | 1,009 | 0.6 | 5.0 | 3.6 | 0.0 | 3.6 | 3.6 | 0.6 | 4.0 | 308.4 | 308.4 |
| | 25 | 552.68 | 4.18 | 2,816 | 1,007 | 0.0 | 5.0 | 3.1 | 0.0 | 3.1 | 3.1 | 0.0 | 4.0 | 264.4 | 264.4 |
| | 26 | 552.68 | 4.18 | 2,812 | 1,006 | 0.0 | 5.0 | 2.6 | 0.0 | 2.6 | 2.6 | 0.0 | 4.0 | 220.3 | 220.3 |
| | 27 | 552.68 | 4.18 | 2,808 | 1,005 | 0.5 | 5.0 | 2.7 | 0.0 | 2.7 | 2.7 | 0.5 | 4.0 | 235.0 | 235.0 |
| | 28 | 552.68 | 4.18 | 2,804 | 1,004 | 0.0 | 5.0 | 2.2 | 0.0 | 2.2 | 2.2 | 0.0 | 4.0 | 190.9 | 190.9 |
| | 29 | 552.68 | 4.18 | 2,800 | 1,003 | 0.0 | 5.0 | 2.0 | 0.0 | 2.0 | 2.0 | 0.0 | 4.0 | 171.1 | 171.1 |
| | 30 | 552.67 | 4.17 | 2,797 | 1,002 | 0.3 | 5.0 | 1.9 | 0.0 | 1.9 | 1.9 | 0.3 | 4.0 | 159.8 | 159.8 |
| | 31 | 552.67 | 4.17 | 2,793 | 1,001 | 0.0 | 5.0 | 1.2 | 0.0 | 1.2 | 1.2 | 0.0 | 4.0 | 102.8 | 102.8 |
| Apr. | 1 | 552.67 | 4.17 | 2,789 | 1,000 | 0.0 | 4.0 | 1.3 | 0.0 | 1.3 | 1.3 | 0.0 | 3.2 | 114.0 | 114.0 |
| | 2 | 552.68 | 4.18 | 2,802 | 1,004 | 15.8 | 4.0 | 1.0 | 0.0 | 1.0 | 1.0 | 15.8 | 3.2 | 89.9 | 89.9 |
| | 3 | 552.67 | 4.17 | 2,799 | 1,003 | 0.0 | 4.0 | 1.3 | 0.0 | 1.3 | 1.3 | 0.0 | 3.2 | 112.3 | 112.3 |
| | 4 | 552.67 | 4.17 | 2,796 | 1,002 | 0.0 | 4.0 | 1.0 | 0.0 | 1.0 | 1.0 | 0.0 | 3.2 | 85.8 | 85.8 |
| | 5 | 552.67 | 4.17 | 2,792 | 1,001 | 0.0 | 4.0 | 0.7 | 0.0 | 0.7 | 0.7 | 0.0 | 3.2 | 57.5 | 57.5 |
| | 6 | 552.67 | 4.17 | 2,789 | 1,000 | 0.0 | 4.0 | 1.0 | 0.0 | 1.0 | 1.0 | 0.0 | 3.2 | 84.1 | 84.1 |
| | 7 | 552.67 | 4.17 | 2,786 | 999 | 0.0 | 4.0 | 1.0 | 0.0 | 1.0 | 1.0 | 0.0 | 3.2 | 84.0 | 84.0 |
| | 8 | 552.67 | 4.17 | 2,783 | 998 | 0.0 | 4.0 | 0.9 | 0.0 | 0.9 | 0.9 | 0.0 | 3.2 | 81.3 | 81.3 |
| | 9 | 552.67 | 4.17 | 2,791 | 1,001 | 11.3 | 4.0 | 0.3 | 0.0 | 0.3 | 0.3 | 11.3 | 3.2 | 26.3 | 26.3 |
| | 10 | 552.67 | 4.17 | 2,788 | 1,000 | 0.0 | 4.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 3.2 | 10.2 | 10.2 |
| | 11 | 552.67 | 4.17 | 2,784 | 999 | 0.0 | 4.0 | 0.3 | 0.0 | 0.3 | 0.3 | 0.0 | 3.2 | 28.9 | 28.9 |
| | 12 | 552.67 | 4.17 | 2,793 | 1,001 | 12.0 | 4.0 | 0.1 | 0.0 | 0.1 | 0.1 | 12.0 | 3.2 | 9.6 | 9.6 |
| | 13 | 552.70 | 4.20 | 2,841 | 1,014 | 51.2 | 4.0 | 0.1 | 0.0 | 0.1 | 0.1 | 51.3 | 3.2 | 9.0 | 9.0 |
| | 14 | 552.70 | 4.20 | 2,838 | 1,013 | 0.0 | 4.0 | 0.4 | 0.0 | 0.4 | 0.4 | 0.0 | 3.2 | 38.6 | 38.6 |
| | 15 | 552.70 | 4.20 | 2,835 | 1,013 | 0.0 | 4.0 | 0.6 | 0.0 | 0.6 | 0.6 | 0.0 | 3.2 | 52.0 | 52.0 |
| | 16 | 552.70 | 4.20 | 2,851 | 1,017 | 18.8 | 4.0 | 0.6 | 0.0 | 0.6 | 0.6 | 19.0 | 3.2 | 51.8 | 51.8 |
| | 17 | 552.70 | 4.20 | 2,850 | 1,017 | 2.8 | 4.0 | 1.5 | 0.0 | 1.5 | 1.5 | 2.8 | 3.3 | 127.0 | 127.0 |
| | 18 | 552.70 | 4.20 | 2,847 | 1,016 | 0.3 | 4.0 | 2.2 | 0.0 | 2.2 | 2.2 | 0.3 | 3.3 | 191.8 | 191.8 |
| | 19 | 552.70 | 4.20 | 2,847 | 1,016 | 3.2 | 4.0 | 3.4 | 0.0 | 3.4 | 3.4 | 3.3 | 3.3 | 291.2 | 291.2 |
| | 20 | 552.70 | 4.20 | 2,844 | 1,015 | 0.0 | 4.0 | 6.1 | 0.0 | 6.1 | 6.1 | 0.0 | 3.3 | 528.8 | 528.8 |
| | 21 | 552.70 | 4.20 | 2,843 | 1,015 | 1.9 | 4.0 | 5.7 | 0.0 | 5.7 | 5.7 | 1.9 | 3.2 | 488.2 | 488.2 |
| | 22 | 552.70 | 4.20 | 2,839 | 1,014 | 0.0 | 4.0 | 12.8 | 0.0 | 12.8 | 12.8 | 0.0 | 3.2 | 1105.9 | 1105.9 |
| | 23 | 552.70 | 4.20 | 2,840 | 1,014 | 3.7 | 4.0 | 13.2 | 0.0 | 13.2 | 13.2 | 3.8 | 3.2 | 1140.5 | 1140.5 |
| | 24 | 552.70 | 4.20 | 2,837 | 1,013 | 0.0 | 4.0 | 9.1 | 0.0 | 9.1 | 9.1 | 0.0 | 3.2 | 782.8 | 782.8 |
| | 25 | 552.69 | 4.19 | 2,833 | 1,012 | 0.0 | 4.0 | 7.4 | 0.0 | 7.4 | 7.4 | 0.0 | 3.2 | 637.6 | 637.6 |
| | 26 | 552.69 | 4.19 | 2,830 | 1,011 | 0.0 | 4.0 | 7.1 | 0.0 | 7.1 | 7.1 | 0.0 | 3.2 | 614.3 | 614.3 |
| | 27 | 552.69 | 4.19 | 2,827 | 1,010 | 0.0 | 4.0 | 6.3 | 0.0 | 6.3 | 6.3 | 0.0 | 3.2 | 541.7 | 541.7 |
| | 28 | 552.69 | 4.19 | 2,824 | 1,010 | 0.0 | 4.0 | 6.0 | 0.0 | 6.0 | 6.0 | 0.0 | 3.2 | 519.3 | 519.3 |
| | 29 | 552.69 | 4.19 | 2,820 | 1,009 | 0.0 | 4.0 | 5.5 | 0.0 | 5.5 | 5.5 | 0.0 | 3.2 | 477.8 | 477.8 |
| | 30 | 552.69 | 4.19 | 2,817 | 1,008 | 0.0 | 4.0 | 5.0 | 0.0 | 5.0 | 5.0 | 0.0 | 3.2 | 433.7 | 433.7 |
| May | 1 | 552.69 | 4.19 | 2,831 | 1,011 | 16.5 | 4.0 | 6.9 | 0.0 | 6.9 | 6.9 | 16.6 | 3.2 | 591.8 | 591.8 |
| | 2 | 552.70 | 4.20 | 2,842 | 1,014 | 14.2 | 4.0 | 5.6 | 0.0 | 5.6 | 5.6 | 14.4 | 3.2 | 484.7 | 484.7 |
| | 3 | 552.70 | 4.20 | 2,839 | 1,014 | 0.0 | 4.0 | 8.1 | 0.0 | 8.1 | 8.1 | 0.0 | 3.2 | 699.0 | 699.0 |
| | 4 | 552.70 | 4.20 | 2,835 | 1,013 | 0.0 | 4.0 | 9.4 | 0.0 | 9.4 | 9.4 | 0.0 | 3.2 | 811.3 | 811.3 |
| | 5 | 552.70 | 4.20 | 2,848 | 1,016 | 15.4 | 4.0 | 9.3 | 0.0 | 9.3 | 9.3 | 15.6 | 3.2 | 799.2 | 799.2 |
| | 6 | 552.70 | 4.20 | 2,844 | 1,015 | 0.0 | 4.0 | 5.6 | 0.0 | 5.6 | 5.6 | 0.0 | 3.3 | 487.3 | 487.3 |
| | 7 | 552.70 | 4.20 | 2,841 | 1,014 | 0.0 | 4.0 | 4.9 | 0.0 | 4.9 | 4.9 | 0.0 | 3.2 | 426.0 | 426.0 |
| | 8 | 552.70 | 4.20 | 2,838 | 1,013 | 0.0 | 4.0 | 4.2 | 0.0 | 4.2 | 4.2 | 0.0 | 3.2 | 360.3 | 360.3 |
| | 9 | 552.70 | 4.20 | 2,835 | 1,013 | 0.0 | 4.0 | 4.7 | 0.0 | 4.7 | 4.7 | 0.0 | 3.2 | 406.1 | 406.1 |
| | 10 | 552.69 | 4.19 | 2,831 | 1,012 | 0.0 | 4.0 | 16.6 | 0.0 | 16.6 | 16.6 | 0.0 | 3.2 | 1434.2 | 1434.2 |
| | 11 | 552.69 | 4.19 | 2,828 | 1,011 | 0.0 | 4.0 | 17.9 | 0.0 | 17.9 | 17.9 | 0.0 | 3.2 | 1546.6 | 1546.6 |
| | 12 | 552.69 | 4.19 | 2,825 | 1,010 | 0.0 | 4.0 | 13.6 | 0.0 | 13.6 | 13.6 | 0.0 | 3.2 | 1175.0 | 1175.0 |
| | 13 | 552.69 | 4.19 | 2,830 | 1,011 | 8.2 | 4.0 | 8.5 | 0.0 | 8.5 | 8.5 | 8.3 | 3.2 | 731.8 | 731.8 |
| | 14 | 552.69 | 4.19 | 2,827 | 1,010 | 0.0 | 4.0 | 6.3 | 0.0 | 6.3 | 6.3 | 0.0 | 3.2 | 546.0 | 546.0 |
| | 15 | 552.69 | 4.19 | 2,824 | 1,009 | 0.0 | 4.0 | 4.7 | 0.0 | 4.7 | 4.7 | 0.0 | 3.2 | 409.5 | 409.5 |
| | 16 | 552.70 | 4.20 | 2,845 | 1,015 | 24.8 | 4.0 | 3.9 | 0.0 | 3.9 | 3.9 | 25.0 | 3.2 | 339.6 | 339.6 |
| | 17 | 552.70 | 4.20 | 2,842 | 1,015 | 0.0 | 4.0 | 3.8 | 0.0 | 3.8 | 3.8 | 0.0 | 3.2 | 324.9 | 324.9 |
| | 18 | 552.70 | 4.20 | 2,839 | 1,014 | 0.0 | 4.0 | 3.8 | 0.0 | 3.8 | 3.8 | 0.0 | 3.2 | 324.9 | 324.9 |
| | 19 | 552.70 | 4.20 | 2,836 | 1,013 | 0.0 | 4.0 | 3.9 | 0.0 | 3.9 | 3.9 | 0.0 | 3.2 | 337.0 | 337.0 |
| | 20 | 552.70 | 4.20 | 2,841 | 1,014 | 8.4 | 4.0 | 6.1 | 0.0 | 6.1 | 6.1 | 8.5 | 3.2 | 527.9 | 527.9 |
| | 21 | 552.70 | 4.20 | 2,848 | 1,016 | 10.7 | 4.0 | 12.0 | 0.0 | 12.0 | 12.0 | 10.9 | 3.2 | 1036.8 | 1036.8 |
| | 22 | 552.71 | 4.21 | 2,854 | 1,018 | 9.1 | 4.0 | 13.8 | 0.0 | 13.8 | 13.8 | 9.2 | 3.3 | 1192.3 | 1192.3 |
| | 23 | 552.72 | 4.22 | 2,876 | 1,024 | 24.1 | 4.0 | 11.0 | 0.0 | 11.0 | 11.0 | 24.5 | 3.3 | 950.4 | 950.4 |
| | 24 | 552.72 | 4.22 | 2,873 | 1,023 | 0.5 | 4.0 | 15.4 | 0.0 | 15.4 | 15.4 | 0.5 | 3.3 | 1330.6 | 1330.6 |
| | 25 | 552.72 | 4.22 | 2,870 | 1,022 | 0.2 | 4.0 | 16.6 | 0.0 | 16.6 | 16.6 | 0.2 | 3.3 | 1434.2 | 1434.2 |
| | 26 | 552.71 | 4.21 | 2,867 | 1,021 | 0.0 | 4.0 | 17.9 | 0.0 | 17.9 | 17.9 | 0.0 | 3.3 | 1546.6 | 1546.6 |
| | 27 | 552.71 | 4.21 | 2,863 | 1,020 | 0.0 | 4.0 | 20.9 | 0.0 | 20.9 | 20.9 | 0.0 | 3.3 | 1805.8 | 1805.8 |
| | 28 | 552.71 | 4.21 | 2,860 | 1,019 | 0.0 | 4.0 | 24.5 | 0.0 | 24.5 | 24.5 | 0.0 | 3.3 | 2116.8 | 2116.8 |
| | 29 | 552.71 | 4.21 | 2,858 | 1,019 | 1.5 | 4.0 | 19.1 | 0.0 | 19.1 | 19.1 | 1.5 | 3.3 | 1650.2 | 1650.2 |

Year : 1988 Outflow discha: 25.00 m³/s

| Month | Day | WL | Hd | V | A | P | Evap | Qin | Qof | Qv | Qout | Pv | Evapv | Qinv | Qoutv |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | m | m | x1000 m³ | x1000 m² | mm | mm | m³/s | m³/s | m³/s | m³/s | x1000m³ | x1000m³ | x1000 m³ | x1000 m³ |
| | 30 | 552.71 | 4.21 | 2,858 | 1,019 | 3.1 | 4.0 | 12.1 | 0.0 | 12.1 | 12.1 | 3.2 | 3.3 | 1045.4 | 1045.4 |
| | 31 | 552.72 | 4.22 | 2,881 | 1,025 | 26.0 | 4.0 | 8.8 | 0.0 | 8.8 | 8.8 | 26.5 | 3.3 | 762.0 | 762.0 |
| June | 1 | 552.72 | 4.22 | 2,881 | 1,025 | 2.5 | 4.0 | 6.8 | 0.0 | 6.8 | 6.8 | 2.6 | 3.3 | 584.9 | 584.9 |
| | 2 | 552.72 | 4.22 | 2,877 | 1,024 | 0.0 | 4.0 | 6.2 | 0.0 | 6.2 | 6.2 | 0.0 | 3.3 | 538.3 | 538.3 |
| | 3 | 552.72 | 4.22 | 2,875 | 1,023 | 0.5 | 4.0 | 17.3 | 0.0 | 17.3 | 17.3 | 0.5 | 3.3 | 1494.7 | 1494.7 |
| | 4 | 552.72 | 4.22 | 2,872 | 1,023 | 0.2 | 4.0 | 21.0 | 0.0 | 21.0 | 21.0 | 0.2 | 3.3 | 1814.4 | 1814.4 |
| | 5 | 552.86 | 4.36 | 3,140 | 1,095 | 3.7 | 4.0 | 28.1 | 0.0 | 25.0 | 25.0 | 3.8 | 3.3 | 2427.8 | 2160.0 |
| | 6 | 553.09 | 4.59 | 3,572 | 1,208 | 19.1 | 4.0 | 29.8 | 0.0 | 25.0 | 25.0 | 20.9 | 3.5 | 2574.7 | 2160.0 |
| | 7 | 553.47 | 4.97 | 4,406 | 1,418 | 0.0 | 4.0 | 34.7 | 0.0 | 25.0 | 25.0 | 0.0 | 3.9 | 2998.1 | 2160.0 |
| | 8 | 553.82 | 5.32 | 5,266 | 1,625 | 6.4 | 4.0 | 34.9 | 0.0 | 25.0 | 25.0 | 9.1 | 4.5 | 3015.4 | 2160.0 |
| | 9 | 553.68 | 5.18 | 4,910 | 1,540 | 18.1 | 4.0 | 20.6 | 0.0 | 25.0 | 25.0 | 29.4 | 5.2 | 1779.8 | 2160.0 |
| | 10 | 553.57 | 5.07 | 4,641 | 1,476 | 30.4 | 4.0 | 21.4 | 0.0 | 25.0 | 25.0 | 46.8 | 4.9 | 1849.0 | 2160.0 |
| | 11 | 553.92 | 5.42 | 5,509 | 1,682 | 0.0 | 4.0 | 35.1 | 0.0 | 25.0 | 25.0 | 0.0 | 4.7 | 3032.6 | 2160.0 |
| | 12 | 554.33 | 5.83 | 6,670 | 1,947 | 0.0 | 4.0 | 38.5 | 0.0 | 25.0 | 25.0 | 0.0 | 5.4 | 3326.4 | 2160.0 |
| | 13 | 554.52 | 6.02 | 7,264 | 2,078 | 10.9 | 4.0 | 31.7 | 0.0 | 25.0 | 25.0 | 21.2 | 6.2 | 2738.9 | 2160.0 |
| | 14 | 554.58 | 6.08 | 7,453 | 2,119 | 19.1 | 4.0 | 26.8 | 0.0 | 25.0 | 25.0 | 39.7 | 6.6 | 2315.5 | 2160.0 |
| | 15 | 554.70 | 6.20 | 7,840 | 2,202 | 2.8 | 4.0 | 29.5 | 0.0 | 25.0 | 25.0 | 5.9 | 6.8 | 2548.8 | 2160.0 |
| | 16 | 554.82 | 6.32 | 8,222 | 2,284 | 0.0 | 4.0 | 29.5 | 0.0 | 25.0 | 25.0 | 0.0 | 7.0 | 2548.8 | 2160.0 |
| | 17 | 554.93 | 6.43 | 8,609 | 2,365 | 6.0 | 4.0 | 29.4 | 0.0 | 25.0 | 25.0 | 13.7 | 7.3 | 2540.2 | 2160.0 |
| | 18 | 555.17 | 6.67 | 9,447 | 2,539 | 39.7 | 4.0 | 33.7 | 0.0 | 25.0 | 25.0 | 93.9 | 7.6 | 2911.7 | 2160.0 |
| | 19 | 555.42 | 6.92 | 10,406 | 2,734 | 0.0 | 4.0 | 36.2 | 0.0 | 25.0 | 25.0 | 0.0 | 8.1 | 3127.7 | 2160.0 |
| | 20 | 556.01 | 7.51 | 12,902 | 3,222 | 50.2 | 4.0 | 52.4 | 0.0 | 25.0 | 25.0 | 137.2 | 8.7 | 4527.4 | 2160.0 |
| | 21 | 556.70 | 8.20 | 16,173 | 3,829 | 20.9 | 4.0 | 62.2 | 0.0 | 25.0 | 25.0 | 67.3 | 10.3 | 5374.1 | 2160.0 |
| | 22 | 557.49 | 8.99 | 20,585 | 4,603 | 0.0 | 4.0 | 76.2 | 0.0 | 25.0 | 25.0 | 0.0 | 12.3 | 6583.7 | 2160.0 |
| | 23 | 558.25 | 9.75 | 25,369 | 5,400 | 25.3 | 4.0 | 79.2 | 0.0 | 25.0 | 25.0 | 116.5 | 14.7 | 6842.9 | 2160.0 |
| | 24 | 558.91 | 10.41 | 30,101 | 6,154 | 7.4 | 4.0 | 79.5 | 0.0 | 25.0 | 25.0 | 40.0 | 17.3 | 6868.8 | 2160.0 |
| | 25 | 559.54 | 11.04 | 35,092 | 6,919 | 0.0 | 4.0 | 83.0 | 0.0 | 25.0 | 25.0 | 0.0 | 19.7 | 7171.2 | 2160.0 |
| | 26 | 560.18 | 11.68 | 40,638 | 7,739 | 28.0 | 4.0 | 87.2 | 0.0 | 25.0 | 25.0 | 193.7 | 22.1 | 7534.1 | 2160.0 |
| | 27 | 560.80 | 12.30 | 46,425 | 8,568 | 36.4 | 4.0 | 89.0 | 0.0 | 25.0 | 25.0 | 281.7 | 24.8 | 7689.6 | 2160.0 |
| | 28 | 561.45 | 12.95 | 53,136 | 9,498 | 0.0 | 4.0 | 103.0 | 0.0 | 25.0 | 25.0 | 0.0 | 27.4 | 8899.2 | 2160.0 |
| | 29 | 562.14 | 13.64 | 60,729 | 10,519 | 2.1 | 4.0 | 113.0 | 0.0 | 25.0 | 25.0 | 19.9 | 30.4 | 9763.2 | 2160.0 |
| | 30 | 562.78 | 14.29 | 68,611 | 11,546 | 21.5 | 4.0 | 114.0 | 0.0 | 25.0 | 25.0 | 226.2 | 33.7 | 9849.6 | 2160.0 |
| Jul. | 1 | 563.44 | 14.94 | 76,954 | 12,604 | 29.0 | 3.0 | 118.0 | 0.0 | 25.0 | 25.0 | 334.8 | 27.7 | 10195.2 | 2160.0 |
| | 2 | 564.04 | 15.54 | 85,304 | 13,636 | 0.0 | 3.0 | 122.0 | 0.0 | 25.0 | 25.0 | 0.0 | 30.2 | 10540.8 | 2160.0 |
| | 3 | 564.61 | 16.11 | 93,655 | 14,644 | 0.2 | 3.0 | 122.0 | 0.0 | 25.0 | 25.0 | 2.7 | 32.7 | 10540.8 | 2160.0 |
| | 4 | 565.16 | 16.66 | 102,195 | 15,653 | 1.5 | 3.0 | 124.0 | 0.0 | 25.0 | 25.0 | 22.0 | 35.1 | 10713.6 | 2160.0 |
| | 5 | 565.66 | 17.16 | 110,471 | 16,613 | 1.2 | 3.0 | 121.0 | 0.0 | 25.0 | 25.0 | 18.8 | 37.6 | 10454.4 | 2160.0 |
| | 6 | 566.14 | 17.64 | 118,553 | 17,533 | 0.0 | 3.0 | 119.0 | 0.0 | 25.0 | 25.0 | 0.0 | 39.9 | 10281.6 | 2160.0 |
| | 7 | 566.56 | 18.06 | 126,114 | 18,381 | 0.0 | 3.0 | 113.0 | 0.0 | 25.0 | 25.0 | 0.0 | 42.1 | 9763.2 | 2160.0 |
| | 8 | 566.96 | 18.46 | 133,421 | 19,189 | 9.8 | 3.0 | 108.0 | 0.0 | 25.0 | 25.0 | 180.1 | 44.1 | 9331.2 | 2160.0 |
| | 9 | 567.31 | 18.81 | 140,201 | 19,929 | 0.0 | 3.0 | 104.0 | 0.0 | 25.0 | 25.0 | 0.0 | 46.1 | 8985.6 | 2160.0 |
| | 10 | 567.66 | 19.16 | 146,942 | 20,657 | 2.5 | 3.0 | 103.0 | 0.0 | 25.0 | 25.0 | 49.8 | 47.8 | 8899.2 | 2160.0 |
| | 11 | 567.91 | 19.41 | 152,128 | 21,212 | 0.0 | 3.0 | 85.6 | 0.0 | 25.0 | 25.0 | 0.0 | 49.6 | 7395.8 | 2160.0 |
| | 12 | 568.12 | 19.62 | 156,443 | 21,670 | 9.5 | 3.0 | 73.2 | 0.0 | 25.0 | 25.0 | 201.5 | 50.9 | 6324.5 | 2160.0 |
| | 13 | 568.27 | 19.77 | 159,594 | 22,002 | 0.7 | 3.0 | 61.9 | 0.0 | 25.0 | 25.0 | 15.2 | 52.0 | 5348.2 | 2160.0 |
| | 14 | 568.36 | 19.86 | 161,408 | 22,193 | 0.0 | 3.0 | 46.6 | 0.0 | 25.0 | 25.0 | 0.0 | 52.8 | 4026.2 | 2160.0 |
| | 15 | 568.43 | 19.93 | 162,867 | 22,346 | 0.0 | 3.0 | 42.5 | 0.0 | 25.0 | 25.0 | 0.0 | 53.3 | 3672.0 | 2160.0 |
| | 16 | 568.48 | 19.98 | 163,962 | 22,461 | 0.0 | 3.0 | 38.3 | 0.0 | 25.0 | 25.0 | 0.0 | 53.6 | 3309.1 | 2160.0 |
| | 17 | 568.52 | 20.02 | 164,833 | 22,552 | 0.0 | 3.0 | 35.7 | 0.0 | 25.0 | 25.0 | 0.0 | 53.9 | 3084.5 | 2160.0 |
| | 18 | 568.54 | 20.04 | 165,306 | 22,601 | 0.0 | 3.0 | 31.1 | 0.0 | 25.0 | 25.0 | 0.0 | 54.1 | 2687.0 | 2160.0 |
| | 19 | 568.54 | 20.04 | 165,338 | 22,605 | 0.0 | 3.0 | 26.0 | 0.0 | 25.0 | 25.0 | 0.0 | 54.2 | 2246.4 | 2160.0 |
| | 20 | 568.53 | 20.03 | 165,067 | 22,576 | 0.0 | 3.0 | 22.5 | 0.0 | 25.0 | 25.0 | 0.0 | 54.3 | 1944.0 | 2160.0 |
| | 21 | 568.51 | 20.01 | 164,642 | 22,532 | 0.0 | 3.0 | 20.7 | 0.0 | 25.0 | 25.0 | 0.0 | 54.2 | 1788.5 | 2160.0 |
| | 22 | 568.50 | 20.00 | 164,421 | 22,509 | 15.6 | 3.0 | 19.0 | 0.0 | 25.0 | 25.0 | 351.5 | 54.1 | 1641.6 | 2160.0 |
| | 23 | 568.48 | 19.98 | 163,893 | 22,454 | 3.9 | 3.0 | 18.5 | 0.0 | 25.0 | 25.0 | 87.8 | 54.0 | 1598.4 | 2160.0 |
| | 24 | 568.53 | 20.03 | 165,047 | 22,574 | 36.5 | 3.0 | 29.5 | 0.0 | 25.0 | 25.0 | 819.6 | 53.9 | 2548.8 | 2160.0 |
| | 25 | 568.53 | 20.03 | 165,106 | 22,580 | 0.0 | 3.0 | 26.3 | 0.0 | 25.0 | 25.0 | 0.0 | 54.2 | 2272.3 | 2160.0 |
| | 26 | 568.55 | 20.05 | 165,368 | 22,608 | 9.8 | 3.0 | 26.1 | 0.0 | 25.0 | 25.0 | 221.3 | 54.2 | 2255.0 | 2160.0 |
| | 27 | 568.58 | 20.08 | 166,133 | 22,688 | 0.7 | 3.0 | 34.3 | 0.0 | 25.0 | 25.0 | 15.8 | 54.3 | 2963.5 | 2160.0 |
| | 28 | 568.63 | 20.13 | 167,089 | 22,787 | 0.0 | 3.0 | 36.7 | 0.0 | 25.0 | 25.0 | 0.0 | 54.5 | 3170.9 | 2160.0 |
| | 29 | 568.66 | 20.16 | 167,769 | 22,858 | 0.0 | 3.0 | 33.5 | 0.0 | 25.0 | 25.0 | 0.0 | 54.7 | 2894.4 | 2160.0 |
| | 30 | 568.67 | 20.17 | 168,103 | 22,893 | 0.0 | 3.0 | 29.5 | 0.0 | 25.0 | 25.0 | 0.0 | 54.9 | 2548.8 | 2160.0 |
| | 31 | 568.67 | 20.17 | 167,997 | 22,882 | 0.8 | 3.0 | 24.2 | 0.0 | 25.0 | 25.0 | 18.3 | 54.9 | 2090.9 | 2160.0 |
| Aug. | 1 | 568.66 | 20.16 | 167,799 | 22,861 | 0.9 | 3.0 | 23.1 | 0.0 | 25.0 | 25.0 | 20.6 | 54.9 | 1995.8 | 2160.0 |
| | 2 | 568.65 | 20.15 | 167,613 | 22,842 | 2.2 | 3.0 | 22.9 | 0.0 | 25.0 | 25.0 | 50.3 | 54.9 | 1978.6 | 2160.0 |
| | 3 | 568.64 | 20.14 | 167,349 | 22,814 | 3.7 | 3.0 | 21.6 | 0.0 | 25.0 | 25.0 | 84.5 | 54.8 | 1866.2 | 2160.0 |
| | 4 | 568.63 | 20.13 | 167,135 | 22,792 | 4.4 | 3.0 | 22.0 | 0.0 | 25.0 | 25.0 | 100.4 | 54.8 | 1900.8 | 2160.0 |
| | 5 | 568.63 | 20.13 | 167,242 | 22,803 | 8.6 | 3.0 | 24.6 | 0.0 | 25.0 | 25.0 | 196.0 | 54.7 | 2125.4 | 2160.0 |
| | 6 | 568.68 | 20.18 | 168,311 | 22,914 | 9.5 | 3.0 | 35.5 | 0.0 | 25.0 | 25.0 | 216.6 | 54.7 | 3067.2 | 2160.0 |
| | 7 | 568.72 | 20.22 | 169,219 | 23,009 | 14.9 | 3.0 | 32.2 | 0.0 | 25.0 | 25.0 | 341.4 | 55.0 | 2782.1 | 2160.0 |
| | 8 | 568.77 | 20.27 | 170,253 | 23,116 | 0.0 | 3.0 | 37.6 | 0.0 | 25.0 | 25.0 | 0.0 | 55.2 | 3248.6 | 2160.0 |
| | 9 | 568.90 | 20.40 | 173,000 | 23,400 | 2.0 | 3.0 | 56.9 | 0.0 | 25.0 | 25.0 | 46.2 | 55.5 | 4916.2 | 2160.0 |
| | 10 | 569.11 | 20.61 | 177,643 | 23,879 | 25.8 | 3.0 | 72.4 | 0.0 | 25.0 | 25.0 | 603.7 | 56.2 | 6255.4 | 2160.0 |
| | 11 | 569.27 | 20.77 | 181,340 | 24,257 | 0.2 | 3.0 | 68.4 | 0.0 | 25.0 | 25.0 | 4.8 | 57.3 | 5909.8 | 2160.0 |
| | 12 | 569.40 | 20.90 | 184,245 | 24,554 | 0.0 | 3.0 | 59.3 | 0.0 | 25.0 | 25.0 | 0.0 | 58.2 | 5123.5 | 2160.0 |
| | 13 | 569.47 | 20.97 | 185,895 | 24,721 | 8.7 | 3.0 | 42.3 | 0.0 | 25.0 | 25.0 | 213.6 | 58.9 | 3654.7 | 2160.0 |
| | 14 | 569.56 | 21.06 | 187,956 | 24,930 | 1.9 | 3.0 | 49.0 | 0.0 | 25.0 | 25.0 | 47.0 | 59.3 | 4233.6 | 2160.0 |
| | 15 | 569.65 | 21.15 | 190,117 | 25,149 | 1.4 | 3.0 | 50.3 | 0.0 | 25.0 | 25.0 | 34.9 | 59.8 | 4345.9 | 2160.0 |

Year : 1988 Outflow discha: 25.00 m³/s

| Month | Day | WL | W3 | V | A | P | Evap | Qin | Qof | Qv | Qout | Pv | Evapv | Qinv | Qoutv |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | m | m | x1000 m³ | x1000 m² | mm | mm | m³/s | m³/s | m³/s | m³/s | x1000m³ | x1000m³ | x1000 m³ | x1000 m³ |
| | 16 | 569.74 | 21.24 | 192,284 | 25,368 | 10.6 | 3.0 | 47.7 | 0.0 | 25.0 | 25.0 | 266.6 | 60.4 | 4121.3 | 2160.0 |
| | 17 | 569.82 | 21.32 | 194,131 | 25,554 | 1.3 | 3.0 | 46.7 | 0.0 | 25.0 | 25.0 | 33.0 | 60.9 | 4034.9 | 2160.0 |
| | 18 | 569.87 | 21.37 | 195,305 | 25,672 | 0.0 | 3.0 | 39.3 | 0.0 | 25.0 | 25.0 | 0.0 | 61.3 | 3395.5 | 2160.0 |
| | 19 | 569.90 | 21.40 | 196,059 | 25,747 | 2.8 | 3.0 | 33.6 | 0.0 | 25.0 | 25.0 | 71.9 | 61.6 | 2903.0 | 2160.0 |
| | 20 | 569.93 | 21.43 | 196,774 | 25,819 | 9.7 | 3.0 | 31.1 | 0.0 | 25.0 | 25.0 | 249.7 | 61.8 | 2687.0 | 2160.0 |
| | 21 | 569.99 | 21.49 | 198,077 | 25,949 | 0.0 | 3.0 | 40.8 | 0.0 | 25.0 | 25.0 | 0.0 | 62.0 | 3525.1 | 2160.0 |
| | 22 | 570.04 | 21.54 | 199,293 | 26,071 | 0.0 | 3.0 | 39.8 | 0.0 | 25.0 | 25.0 | 0.0 | 62.3 | 3438.7 | 2160.0 |
| | 23 | 570.16 | 21.66 | 202,223 | 26,363 | 49.5 | 3.0 | 44.7 | 0.0 | 25.0 | 25.0 | 1290.5 | 62.6 | 3862.1 | 2160.0 |
| | 24 | 570.33 | 21.83 | 206,516 | 26,790 | 3.0 | 3.0 | 74.5 | 0.0 | 25.0 | 25.0 | 79.1 | 63.3 | 6436.8 | 2160.0 |
| | 25 | 570.58 | 22.08 | 212,507 | 27,381 | 20.6 | 3.0 | 88.7 | 0.0 | 25.0 | 25.0 | 551.9 | 64.3 | 7663.7 | 2160.0 |
| | 26 | 570.80 | 22.30 | 218,265 | 27,946 | 0.0 | 3.0 | 92.4 | 0.0 | 25.0 | 25.0 | 0.0 | 65.7 | 7983.4 | 2160.0 |
| | 27 | 571.03 | 22.53 | 223,984 | 28,504 | 3.3 | 3.0 | 90.9 | 0.0 | 25.0 | 25.0 | 92.2 | 67.1 | 7853.8 | 2160.0 |
| | 28 | 571.24 | 22.74 | 229,544 | 29,043 | 5.0 | 3.0 | 88.5 | 0.0 | 25.0 | 25.0 | 142.5 | 68.4 | 7646.4 | 2160.0 |
| | 29 | 571.45 | 22.95 | 235,131 | 29,581 | 0.5 | 3.0 | 90.3 | 0.0 | 25.0 | 25.0 | 14.5 | 69.7 | 7801.9 | 2160.0 |
| | 30 | 571.68 | 23.18 | 241,218 | 30,164 | 1.1 | 3.0 | 95.9 | 0.0 | 25.0 | 25.0 | 32.5 | 71.0 | 8285.8 | 2160.0 |
| | 31 | 571.91 | 23.41 | 247,531 | 30,765 | 0.0 | 3.0 | 98.9 | 0.0 | 25.0 | 25.0 | 0.0 | 72.4 | 8545.0 | 2160.0 |
| Sept. | 1 | 572.21 | 23.71 | 255,854 | 31,552 | 63.1 | 4.0 | 100.0 | 0.0 | 25.0 | 25.0 | 1941.3 | 98.4 | 8640.0 | 2160.0 |
| | 2 | 572.45 | 23.95 | 262,751 | 32,200 | 0.0 | 4.0 | 106.0 | 11.6 | 13.4 | 25.0 | 0.0 | 101.0 | 9158.4 | 2160.0 |
| | 3 | 572.71 | 24.21 | 270,012 | 32,877 | 2.5 | 4.0 | 121.0 | 36.7 | 0.0 | 36.7 | 80.5 | 103.0 | 10454.4 | 3171.4 |
| | 4 | 572.94 | 24.44 | 276,700 | 33,498 | 47.0 | 4.0 | 132.0 | 71.3 | 0.0 | 71.3 | 1545.2 | 105.2 | 11404.8 | 6156.4 |
| | 5 | 573.00 | 24.50 | 278,618 | 33,675 | 0.0 | 4.0 | 132.0 | 108.6 | 0.0 | 108.6 | 0.0 | 107.2 | 11404.8 | 9379.3 |
| | 6 | 573.04 | 24.54 | 279,873 | 33,791 | 7.3 | 4.0 | 133.0 | 120.1 | 0.0 | 120.1 | 245.8 | 107.8 | 11491.2 | 10374.1 |
| | 7 | 573.06 | 24.56 | 280,351 | 33,835 | 4.0 | 4.0 | 133.0 | 127.8 | 0.0 | 127.8 | 135.2 | 108.1 | 11491.2 | 11040.5 |
| | 8 | 573.08 | 24.58 | 280,840 | 33,880 | 6.8 | 4.0 | 135.0 | 130.8 | 0.0 | 130.8 | 230.1 | 108.3 | 11664.0 | 11297.3 |
| | 9 | 573.09 | 24.59 | 281,227 | 33,915 | 6.5 | 4.0 | 137.0 | 133.8 | 0.0 | 133.8 | 220.2 | 108.4 | 11836.8 | 11561.6 |
| | 10 | 573.10 | 24.60 | 281,579 | 33,948 | 1.5 | 4.0 | 141.0 | 136.3 | 0.0 | 136.3 | 50.9 | 108.5 | 12182.4 | 11772.2 |
| | 11 | 573.16 | 24.66 | 283,455 | 34,121 | 14.0 | 4.0 | 156.0 | 138.5 | 0.0 | 138.5 | 475.3 | 108.6 | 13478.4 | 11965.0 |
| | 12 | 573.32 | 24.82 | 288,098 | 34,546 | 16.5 | 4.0 | 199.0 | 150.6 | 0.0 | 150.6 | 563.0 | 109.2 | 17193.6 | 13008.1 |
| | 13 | 573.21 | 24.71 | 284,856 | 34,249 | 0.7 | 4.0 | 145.0 | 181.5 | 0.0 | 181.5 | 24.2 | 110.5 | 12528.0 | 15683.8 |
| | 14 | 573.14 | 24.64 | 282,656 | 34,065 | 2.1 | 4.0 | 137.0 | 159.7 | 0.0 | 159.7 | 71.9 | 109.6 | 11836.8 | 13799.1 |
| | 15 | 573.16 | 24.66 | 283,308 | 34,107 | 23.2 | 4.0 | 144.0 | 146.7 | 0.0 | 146.7 | 790.3 | 109.0 | 12441.6 | 12671.0 |
| | 16 | 573.19 | 24.69 | 284,189 | 34,188 | 0.1 | 4.0 | 161.0 | 149.6 | 0.0 | 149.6 | 3.4 | 109.1 | 13910.4 | 12923.5 |
| | 17 | 573.23 | 24.73 | 285,398 | 34,299 | 6.5 | 4.0 | 168.0 | 155.3 | 0.0 | 155.3 | 222.2 | 109.4 | 14515.2 | 13419.9 |
| | 18 | 573.22 | 24.72 | 285,262 | 34,286 | 0.0 | 4.0 | 163.0 | 163.3 | 0.0 | 163.3 | 0.0 | 109.8 | 14083.2 | 14109.0 |
| | 19 | 573.17 | 24.67 | 283,563 | 34,130 | 0.0 | 4.0 | 144.0 | 162.4 | 0.0 | 162.4 | 0.0 | 109.7 | 12441.6 | 14031.2 |
| | 20 | 573.11 | 24.61 | 281,759 | 33,964 | 4.1 | 4.0 | 130.0 | 151.2 | 0.0 | 151.2 | 139.9 | 109.2 | 11232.0 | 13066.3 |
| | 21 | 573.06 | 24.56 | 280,243 | 33,825 | 3.4 | 4.0 | 122.0 | 139.6 | 0.0 | 139.6 | 115.5 | 108.7 | 10540.8 | 12063.8 |
| | 22 | 573.02 | 24.52 | 279,177 | 33,726 | 0.0 | 4.0 | 119.0 | 130.1 | 0.0 | 130.1 | 0.0 | 108.2 | 10281.6 | 11239.0 |
| | 23 | 573.00 | 24.50 | 278,559 | 33,669 | 1.5 | 4.0 | 117.0 | 123.5 | 0.0 | 123.5 | 50.6 | 107.9 | 10108.8 | 10669.4 |
| | 24 | 573.00 | 24.50 | 278,481 | 33,662 | 2.7 | 4.0 | 119.0 | 119.7 | 0.0 | 119.7 | 90.9 | 107.7 | 10281.6 | 10343.1 |
| | 25 | 573.00 | 24.50 | 278,507 | 33,664 | 2.0 | 4.0 | 120.0 | 119.2 | 0.0 | 119.2 | 67.3 | 107.7 | 10368.0 | 10301.9 |
| | 26 | 573.00 | 24.50 | 278,500 | 33,664 | 4.0 | 4.0 | 119.0 | 119.4 | 0.0 | 119.4 | 134.7 | 107.7 | 10281.6 | 10315.4 |
| | 27 | 573.03 | 24.53 | 279,612 | 33,766 | 32.0 | 4.0 | 121.0 | 119.3 | 0.0 | 119.3 | 1077.2 | 107.7 | 10454.4 | 10311.8 |
| | 28 | 573.04 | 24.54 | 279,881 | 33,791 | 11.6 | 4.0 | 126.0 | 126.2 | 0.0 | 126.2 | 391.7 | 108.1 | 10886.4 | 10900.7 |
| | 29 | 573.07 | 24.57 | 280,538 | 33,852 | 17.1 | 4.0 | 130.0 | 127.8 | 0.0 | 127.8 | 577.8 | 108.1 | 11232.0 | 11044.7 |
| | 30 | 573.09 | 24.59 | 281,378 | 33,929 | 7.4 | 4.0 | 140.0 | 131.9 | 0.0 | 131.9 | 250.5 | 108.3 | 12096.0 | 11398.3 |
| Oct. | 1 | 573.23 | 24.73 | 285,552 | 34,313 | 9.6 | 4.0 | 183.0 | 137.2 | 0.0 | 137.2 | 325.7 | 108.6 | 15811.2 | 11854.9 |
| | 2 | 573.34 | 24.84 | 288,719 | 34,603 | 8.2 | 4.0 | 199.0 | 164.3 | 0.0 | 164.3 | 281.4 | 109.8 | 17193.6 | 14197.5 |
| | 3 | 573.34 | 24.84 | 288,824 | 34,613 | 0.7 | 4.0 | 188.0 | 185.8 | 0.0 | 185.8 | 24.2 | 110.7 | 16243.2 | 16052.1 |
| | 4 | 573.31 | 24.81 | 287,916 | 34,530 | 0.7 | 4.0 | 177.0 | 186.5 | 0.0 | 186.5 | 24.2 | 110.8 | 15292.8 | 16114.4 |
| | 5 | 573.26 | 24.76 | 286,226 | 34,375 | 0.0 | 4.0 | 162.0 | 180.3 | 0.0 | 180.3 | 0.0 | 110.5 | 13996.8 | 15575.7 |
| | 6 | 573.21 | 24.71 | 284,835 | 34,247 | 0.0 | 4.0 | 154.0 | 168.8 | 0.0 | 168.8 | 0.0 | 110.0 | 13305.6 | 14587.2 |
| | 7 | 573.17 | 24.67 | 283,726 | 34,145 | 0.0 | 4.0 | 148.0 | 159.6 | 0.0 | 159.6 | 0.0 | 109.6 | 12787.2 | 13786.7 |
| | 8 | 573.15 | 24.65 | 283,193 | 34,096 | 11.1 | 4.0 | 143.0 | 152.3 | 0.0 | 152.3 | 379.0 | 109.3 | 12355.2 | 13157.9 |
| | 9 | 573.12 | 24.62 | 282,026 | 33,989 | 1.5 | 4.0 | 136.0 | 148.8 | 0.0 | 148.8 | 51.1 | 109.1 | 11750.4 | 12858.7 |
| | 10 | 573.08 | 24.58 | 281,079 | 33,902 | 1.6 | 4.0 | 131.0 | 141.3 | 0.0 | 141.3 | 54.4 | 108.8 | 11318.4 | 12210.9 |
| | 11 | 573.06 | 24.56 | 280,504 | 33,849 | 4.9 | 4.0 | 128.0 | 135.3 | 0.0 | 135.3 | 166.1 | 108.5 | 11059.2 | 11692.0 |
| | 12 | 573.06 | 24.56 | 280,448 | 33,844 | 0.8 | 4.0 | 132.0 | 131.7 | 0.0 | 131.7 | 27.1 | 108.3 | 11404.8 | 11380.0 |
| | 13 | 573.05 | 24.55 | 280,062 | 33,808 | 10.6 | 4.0 | 124.0 | 131.4 | 0.0 | 131.4 | 358.7 | 108.3 | 10713.6 | 11349.5 |
| | 14 | 572.99 | 24.49 | 278,337 | 33,649 | 0.6 | 4.0 | 110.0 | 129.0 | 0.0 | 129.0 | 20.3 | 108.2 | 9504.0 | 11141.9 |
| | 15 | 572.95 | 24.45 | 277,048 | 33,530 | 6.9 | 4.0 | 102.0 | 118.4 | 0.0 | 118.4 | 232.2 | 107.7 | 8812.8 | 10226.2 |
| | 16 | 572.91 | 24.41 | 275,916 | 33,425 | 3.5 | 4.0 | 97.4 | 110.6 | 0.0 | 110.6 | 117.4 | 107.3 | 8415.4 | 9557.4 |
| | 17 | 572.89 | 24.39 | 275,252 | 33,364 | 0.0 | 4.0 | 97.5 | 103.9 | 0.0 | 103.9 | 0.0 | 107.0 | 8424.0 | 8981.1 |
| | 18 | 572.90 | 24.40 | 275,682 | 33,403 | 21.5 | 4.0 | 98.0 | 100.1 | 0.0 | 100.1 | 717.3 | 106.8 | 8467.2 | 8467.9 |
| | 19 | 572.92 | 24.42 | 276,371 | 33,467 | 17.6 | 4.0 | 105.0 | 102.6 | 0.0 | 102.6 | 587.9 | 106.9 | 9072.0 | 8863.1 |
| | 20 | 572.95 | 24.45 | 277,075 | 33,532 | 0.0 | 4.0 | 116.0 | 106.6 | 0.0 | 106.6 | 0.0 | 107.1 | 10022.4 | 9211.8 |
| | 21 | 572.97 | 24.47 | 277,678 | 33,588 | 0.0 | 4.0 | 119.0 | 110.8 | 0.0 | 110.8 | 0.0 | 107.3 | 10281.6 | 9571.4 |
| | 22 | 572.97 | 24.47 | 277,726 | 33,592 | 8.2 | 4.0 | 113.0 | 114.4 | 0.0 | 114.4 | 275.4 | 107.5 | 9763.2 | 9882.7 |
| | 23 | 572.96 | 24.46 | 277,289 | 33,552 | 2.2 | 4.0 | 110.0 | 114.7 | 0.0 | 114.7 | 73.9 | 107.5 | 9504.0 | 9907.8 |
| | 24 | 572.95 | 24.45 | 277,175 | 33,541 | 5.1 | 4.0 | 110.0 | 112.1 | 0.0 | 112.1 | 171.1 | 107.4 | 9504.0 | 9681.5 |
| | 25 | 572.96 | 24.46 | 277,367 | 33,559 | 30.5 | 4.0 | 103.0 | 111.4 | 0.0 | 111.4 | 1023.0 | 107.3 | 8899.2 | 9622.9 |
| | 26 | 572.91 | 24.41 | 276,016 | 33,434 | 4.7 | 4.0 | 96.3 | 112.5 | 0.0 | 112.5 | 157.7 | 107.4 | 8320.3 | 9721.9 |
| | 27 | 572.89 | 24.39 | 275,503 | 33,387 | 3.7 | 4.0 | 98.4 | 104.5 | 0.0 | 104.5 | 123.7 | 107.0 | 8501.8 | 9031.6 |
| | 28 | 572.90 | 24.40 | 275,608 | 33,397 | 0.0 | 4.0 | 104.0 | 101.5 | 0.0 | 101.5 | 0.0 | 106.8 | 8985.6 | 8773.4 |
| | 29 | 572.89 | 24.39 | 275,254 | 33,364 | 0.0 | 4.0 | 99.3 | 102.2 | 0.0 | 102.2 | 0.0 | 106.9 | 8579.5 | 8826.2 |
| | 30 | 572.88 | 24.38 | 274,931 | 33,334 | 0.0 | 4.0 | 97.6 | 100.1 | 0.0 | 100.1 | 0.0 | 106.8 | 8432.6 | 8649.3 |
| | 31 | 572.87 | 24.37 | 274,656 | 33,308 | 0.0 | 4.0 | 96.3 | 98.2 | 0.0 | 98.2 | 0.0 | 106.7 | 8320.3 | 8488.4 |
| Nov. | 1 | 572.86 | 24.36 | 274,388 | 33,284 | 0.0 | 4.0 | 94.8 | 96.7 | 0.0 | 96.7 | 0.0 | 106.6 | 8190.7 | 8352.4 |

Year : 1988 Outflow discha: 25.00 m³/s

| Month | Day | WL | Wd | V | A | P | Evap | Qin | Qof | Qv | Qout | Pv | Evapv | Qinv | Qoutv |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | m | m | x1000 m³ | x1000 m² | mm | mm | m³/s | m³/s | m³/s | m³/s | x1000m³ | x1000m³ | x1000 m³ | x1000 m³ |
| | 2 | 572.85 | 24.35 | 274,175 | 33,264 | 9.1 | 4.0 | 90.4 | 95.1 | 0.0 | 95.1 | 302.9 | 106.5 | 7810.6 | 8220.2 |
| | 3 | 572.85 | 24.35 | 274,243 | 33,270 | 24.3 | 4.0 | 86.6 | 93.9 | 0.0 | 93.9 | 808.3 | 106.4 | 7462.2 | 8115.6 |
| | 4 | 572.83 | 24.33 | 273,478 | 33,195 | 0.0 | 4.0 | 86.7 | 94.3 | 0.0 | 94.3 | 0.0 | 106.5 | 7490.9 | 8149.2 |
| | 5 | 572.81 | 24.31 | 272,965 | 33,152 | 0.0 | 4.0 | 85.3 | 90.0 | 0.0 | 90.0 | 0.0 | 106.2 | 7359.9 | 7776.8 |
| | 6 | 572.78 | 24.28 | 272,086 | 33,070 | 0.0 | 4.0 | 78.2 | 87.2 | 0.0 | 87.2 | 0.0 | 106.1 | 6756.5 | 7529.9 |
| | 7 | 572.74 | 24.24 | 270,898 | 32,960 | 0.0 | 4.0 | 69.8 | 82.3 | 0.0 | 82.3 | 0.0 | 105.8 | 6030.7 | 7112.3 |
| | 8 | 572.70 | 24.20 | 269,771 | 32,855 | 0.0 | 4.0 | 64.1 | 75.9 | 0.0 | 75.9 | 0.0 | 105.5 | 5538.2 | 6560.0 |
| | 9 | 572.66 | 24.16 | 268,810 | 32,766 | 0.0 | 4.0 | 60.1 | 70.0 | 0.0 | 70.0 | 0.0 | 105.1 | 5192.6 | 6048.3 |
| | 10 | 572.64 | 24.14 | 267,982 | 32,688 | 0.0 | 4.0 | 56.7 | 65.1 | 0.0 | 65.1 | 0.0 | 104.8 | 4898.9 | 5622.2 |
| | 11 | 572.61 | 24.11 | 267,298 | 32,625 | 0.0 | 4.0 | 54.2 | 60.9 | 0.0 | 60.9 | 0.0 | 104.6 | 4682.9 | 5262.6 |
| | 12 | 572.59 | 24.09 | 266,698 | 32,569 | 0.0 | 4.0 | 51.8 | 57.5 | 0.0 | 57.5 | 0.0 | 104.4 | 4475.5 | 4971.0 |
| | 13 | 572.57 | 24.07 | 266,185 | 32,521 | 0.0 | 4.0 | 49.9 | 54.6 | 0.0 | 54.6 | 0.0 | 104.2 | 4311.4 | 4719.6 |
| | 14 | 572.56 | 24.06 | 265,677 | 32,473 | 0.0 | 4.0 | 47.5 | 52.2 | 0.0 | 52.2 | 0.0 | 104.1 | 4104.0 | 4508.1 |
| | 15 | 572.54 | 24.04 | 265,238 | 32,432 | 0.0 | 4.0 | 45.9 | 49.8 | 0.0 | 49.8 | 0.0 | 103.9 | 3965.8 | 4301.3 |
| | 16 | 572.53 | 24.03 | 264,785 | 32,390 | 0.0 | 4.0 | 43.7 | 47.7 | 0.0 | 47.7 | 0.0 | 103.8 | 3775.7 | 4124.9 |
| | 17 | 572.51 | 24.01 | 264,416 | 32,356 | 0.0 | 4.0 | 42.6 | 45.7 | 0.0 | 45.7 | 0.0 | 103.6 | 3680.6 | 3945.5 |
| | 18 | 572.50 | 24.00 | 264,088 | 32,325 | 0.0 | 4.0 | 41.4 | 44.0 | 0.0 | 44.0 | 0.0 | 103.5 | 3577.0 | 3801.4 |
| | 19 | 572.49 | 23.99 | 263,862 | 32,304 | 0.0 | 4.0 | 41.1 | 42.5 | 0.0 | 42.5 | 0.0 | 103.4 | 3551.0 | 3674.5 |
| | 20 | 572.49 | 23.99 | 263,644 | 32,283 | 0.0 | 4.0 | 40.2 | 41.5 | 0.0 | 41.5 | 0.0 | 103.4 | 3473.3 | 3587.5 |
| | 21 | 572.48 | 23.98 | 263,380 | 32,259 | 0.0 | 4.0 | 38.7 | 40.6 | 0.0 | 40.6 | 0.0 | 103.3 | 3343.7 | 3504.7 |
| | 22 | 572.47 | 23.97 | 263,267 | 32,248 | 0.0 | 4.0 | 39.3 | 39.4 | 0.0 | 39.4 | 0.0 | 103.2 | 3395.5 | 3405.0 |
| | 23 | 572.47 | 23.97 | 263,127 | 32,235 | 0.0 | 4.0 | 38.5 | 38.9 | 0.0 | 38.9 | 0.0 | 103.2 | 3326.4 | 3362.7 |
| | 24 | 572.46 | 23.96 | 262,962 | 32,220 | 0.0 | 4.0 | 37.6 | 38.3 | 0.0 | 38.3 | 0.0 | 103.2 | 3248.6 | 3310.6 |
| | 25 | 572.46 | 23.96 | 262,781 | 32,203 | 0.0 | 4.0 | 36.7 | 37.6 | 0.0 | 37.6 | 0.0 | 103.1 | 3170.9 | 3249.3 |
| | 26 | 572.45 | 23.95 | 262,588 | 32,185 | 0.0 | 4.0 | 35.8 | 36.8 | 0.0 | 36.8 | 0.0 | 103.0 | 3093.1 | 3182.3 |
| | 27 | 572.44 | 23.94 | 262,398 | 32,167 | 0.0 | 4.0 | 35.0 | 36.0 | 0.0 | 36.0 | 0.0 | 103.0 | 3024.0 | 3111.8 |
| | 28 | 572.44 | 23.94 | 262,259 | 32,154 | 0.0 | 4.0 | 34.8 | 35.2 | 0.0 | 35.2 | 0.0 | 102.9 | 3006.7 | 3042.4 |
| | 29 | 572.43 | 23.93 | 262,110 | 32,140 | 0.0 | 4.0 | 34.1 | 34.6 | 0.0 | 34.6 | 0.0 | 102.9 | 2946.2 | 2992.2 |
| | 30 | 572.43 | 23.93 | 262,006 | 32,130 | 0.0 | 4.0 | 34.0 | 34.0 | 0.0 | 34.0 | 0.0 | 102.8 | 2937.6 | 2938.7 |
| Dec. | 1 | 572.46 | 23.96 | 262,853 | 32,209 | 0.0 | 5.0 | 44.9 | 33.6 | 0.0 | 33.6 | 0.0 | 128.5 | 3877.0 | 2901.5 |
| | 2 | 572.47 | 23.97 | 263,235 | 32,245 | 0.0 | 5.0 | 43.1 | 37.1 | 0.0 | 37.1 | 0.0 | 128.8 | 3719.5 | 3209.0 |
| | 3 | 572.47 | 23.97 | 263,329 | 32,254 | 0.0 | 5.0 | 41.4 | 38.8 | 0.0 | 38.8 | 0.0 | 129.0 | 3573.9 | 3350.8 |
| | 4 | 572.47 | 23.97 | 263,253 | 32,247 | 0.0 | 5.0 | 39.8 | 39.2 | 0.0 | 39.2 | 0.0 | 129.0 | 3439.1 | 3386.0 |
| | 5 | 572.47 | 23.97 | 263,159 | 32,238 | 0.0 | 5.0 | 39.3 | 38.9 | 0.0 | 38.9 | 0.0 | 129.0 | 3392.0 | 3357.6 |
| | 6 | 572.47 | 23.97 | 263,084 | 32,231 | 0.0 | 5.0 | 39.1 | 38.5 | 0.0 | 38.5 | 0.0 | 129.0 | 3376.7 | 3322.2 |
| | 7 | 572.48 | 23.98 | 263,491 | 32,269 | 14.7 | 5.0 | 38.9 | 38.1 | 0.0 | 38.1 | 473.8 | 128.9 | 3357.0 | 3294.5 |
| | 8 | 572.47 | 23.97 | 263,349 | 32,256 | 3.0 | 5.0 | 38.6 | 39.9 | 0.0 | 39.9 | 96.8 | 129.1 | 3336.7 | 3447.1 |
| | 9 | 572.47 | 23.97 | 263,145 | 32,237 | 0.0 | 5.0 | 38.4 | 39.3 | 0.0 | 39.3 | 0.0 | 129.0 | 3316.5 | 3393.4 |
| | 10 | 572.46 | 23.96 | 262,992 | 32,222 | 0.0 | 5.0 | 38.1 | 38.4 | 0.0 | 38.4 | 0.0 | 128.9 | 3294.1 | 3316.4 |
| | 11 | 572.46 | 23.96 | 262,869 | 32,211 | 0.0 | 5.0 | 37.8 | 37.7 | 0.0 | 37.7 | 0.0 | 128.9 | 3266.5 | 3260.2 |
| | 12 | 572.45 | 23.95 | 262,770 | 32,202 | 0.2 | 5.0 | 37.5 | 37.2 | 0.0 | 37.2 | 6.4 | 128.8 | 3238.4 | 3214.9 |
| | 13 | 572.45 | 23.95 | 262,676 | 32,193 | 0.0 | 5.0 | 37.2 | 36.8 | 0.0 | 36.8 | 0.0 | 128.8 | 3213.3 | 3178.5 |
| | 14 | 572.45 | 23.95 | 262,588 | 32,185 | 0.0 | 5.0 | 36.9 | 36.4 | 0.0 | 36.4 | 0.0 | 128.8 | 3184.9 | 3144.0 |
| | 15 | 572.45 | 23.95 | 262,504 | 32,177 | 0.0 | 5.0 | 36.5 | 36.0 | 0.0 | 36.0 | 0.0 | 128.7 | 3156.2 | 3111.8 |
| | 16 | 572.44 | 23.94 | 262,422 | 32,169 | 0.0 | 5.0 | 36.2 | 35.7 | 0.0 | 35.7 | 0.0 | 128.7 | 3127.4 | 3081.1 |
| | 17 | 572.44 | 23.94 | 262,341 | 32,161 | 0.0 | 5.0 | 35.9 | 35.3 | 0.0 | 35.3 | 0.0 | 128.7 | 3098.5 | 3051.1 |
| | 18 | 572.44 | 23.94 | 262,260 | 32,154 | 0.0 | 5.0 | 35.5 | 35.0 | 0.0 | 35.0 | 0.0 | 128.6 | 3069.5 | 3021.7 |
| | 19 | 572.43 | 23.93 | 262,179 | 32,146 | 0.0 | 5.0 | 35.2 | 34.6 | 0.0 | 34.6 | 0.0 | 128.6 | 3040.4 | 2992.5 |
| | 20 | 572.43 | 23.93 | 262,098 | 32,139 | 0.0 | 5.0 | 34.9 | 34.3 | 0.0 | 34.3 | 0.0 | 128.6 | 3011.1 | 2963.4 |
| | 21 | 572.43 | 23.93 | 262,017 | 32,131 | 0.0 | 5.0 | 34.5 | 34.0 | 0.0 | 34.0 | 0.0 | 128.6 | 2981.8 | 2934.3 |
| | 22 | 572.44 | 23.94 | 262,427 | 32,170 | 15.3 | 5.0 | 34.2 | 33.6 | 0.0 | 33.6 | 491.6 | 128.5 | 2952.4 | 2905.3 |
| | 23 | 572.43 | 23.93 | 262,178 | 32,146 | 0.0 | 5.0 | 33.9 | 35.3 | 0.0 | 35.3 | 0.0 | 128.7 | 2932.2 | 3053.1 |
| | 24 | 572.43 | 23.93 | 261,998 | 32,129 | 0.0 | 5.0 | 33.7 | 34.3 | 0.0 | 34.3 | 0.0 | 128.6 | 2912.0 | 2962.9 |
| | 25 | 572.42 | 23.92 | 261,856 | 32,116 | 0.0 | 5.0 | 33.4 | 33.5 | 0.0 | 33.5 | 0.0 | 128.5 | 2885.3 | 2898.6 |
| | 26 | 572.42 | 23.92 | 261,737 | 32,105 | 0.0 | 5.0 | 33.1 | 33.0 | 0.0 | 33.0 | 0.0 | 128.5 | 2856.8 | 2848.0 |
| | 27 | 572.41 | 23.91 | 261,631 | 32,095 | 0.0 | 5.0 | 32.7 | 32.5 | 0.0 | 32.5 | 0.0 | 128.4 | 2828.1 | 2805.6 |
| | 28 | 572.41 | 23.91 | 261,533 | 32,086 | 0.0 | 5.0 | 32.4 | 32.0 | 0.0 | 32.0 | 0.0 | 128.4 | 2799.3 | 2768.3 |
| | 29 | 572.41 | 23.91 | 261,441 | 32,077 | 0.0 | 5.0 | 32.1 | 31.6 | 0.0 | 31.6 | 0.0 | 128.3 | 2770.4 | 2734.1 |
| | 30 | 572.40 | 23.90 | 261,353 | 32,069 | 0.0 | 5.0 | 31.7 | 31.3 | 0.0 | 31.3 | 0.0 | 128.3 | 2741.4 | 2701.9 |
| | 31 | 572.38 | 23.88 | 260,713 | 32,009 | 0.0 | 5.0 | 25.0 | 30.9 | 0.0 | 30.9 | 0.0 | 128.3 | 2159.2 | 2670.9 |
| Total | | | | | | 1,631 | 1,524 | | | | | 26,735 | 19,555 | ########## | 9,257,902 |
| Mean | | 563.42 | 14.92 | 128,513 | 16,695 | 4.5 | 4.2 | 44.8 | 28.7 | 11.1 | 39.8 | 73.0 | 53.4 | 3,872.7 | 3,436.9 |
| Max. | | 573.34 | 24.84 | 288,824 | 34,613 | 63.1 | | 199.0 | 186.5 | 25.0 | 186.5 | 1,941.3 | 129.1 | 17,193.6 | 16,114.4 |
| Min. | | 552.67 | 4.17 | 2,783 | 998 | | | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 3.2 | 9.0 | 9.0 |

WL : Water level
Wd : Water depth
V : Storage volume
A : Water surface area

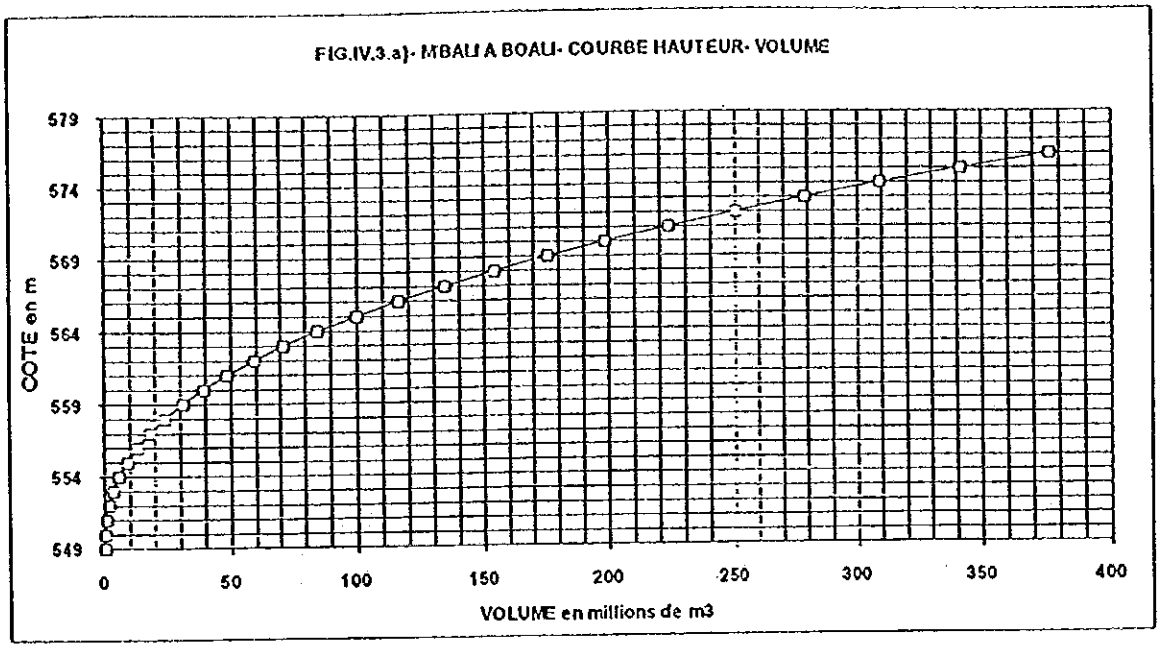
P : Precipitation
Evap : Evaporation
Qin : Inflow
Qof : Overflow

Qv : Valve flow
Qout : Out flow
Pv : Precipitation volume
Evapov : Evaporation volume

Qinv : Inflow volume
Qoutv : Outflow volume

Tableau4 Sommaire du calcul d'arrivée d'eau au barrage de Boali

| Year | Qb = 25 m3/s | | | | | | Qb = 20 m3/s | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Vmin | WLmin | Vmin-r | Qo-min | Period when Qo<Qb | Insuffi-cient V | Vmin | WLmin | Vmin-r | Qo-min |
| | (MCM) | (m) | (%) | (m3/s) | (day) | (MCM) | (MCM) | (m) | (%) | (m3/s) |
| 1964 | 216 | 570.72 | 84 | 25.0 | | | 240 | 571.64 | 93 | 20.0 |
| 1965 | 254 | 572.16 | 99 | 25.0 | | | 259 | 572.33 | 101 | 23.0 |
| 1966 | 249 | 571.96 | 96 | 25.0 | | | 259 | 572.31 | 100 | 20.9 |
| 1967 | 251 | 572.04 | 97 | 25.0 | | | 259 | 572.33 | 100 | 22.3 |
| 1968 | 260 | 572.36 | 101 | 26.1 | | | 260 | 572.36 | 101 | 26.1 |
| 1969 | 260 | 572.36 | 101 | 25.5 | | | 260 | 572.36 | 101 | 25.5 |
| 1970 | 262 | 572.42 | 101 | 32.3 | | | 262 | 572.42 | 101 | 32.3 |
| 1971 | 212 | 570.55 | 82 | 25.0 | | | 242 | 571.72 | 94 | 20.0 |
| 1972 | 165 | 568.52 | 64 | 25.0 | | | 216 | 570.72 | 84 | 20.0 |
| 1973 | 51 | 561.22 | 20 | 25.0 | | | 135 | 567.06 | 52 | 20.0 |
| 1974 | 68 | 562.74 | 26 | 25.0 | | | 160 | 568.27 | 62 | 20.0 |
| 1975 | 137 | 567.13 | 53 | 25.0 | | | 199 | 570.03 | 77 | 20.0 |
| 1976 | 249 | 571.95 | 96 | 25.0 | | | 259 | 572.31 | 100 | 20.7 |
| 1977 | 205 | 570.26 | 79 | 25.0 | | | 244 | 571.77 | 94 | 20.0 |
| 1978 | 154 | 567.99 | 60 | 25.0 | | | 214 | 570.63 | 83 | 20.0 |
| 1979 | 155 | 568.08 | 60 | 25.0 | | | 216 | 570.73 | 84 | 20.0 |
| 1980 | 145 | 567.57 | 56 | 25.0 | | | 199 | 570.04 | 77 | 20.0 |
| 1981 | 172 | 568.87 | 67 | 25.0 | | | 218 | 570.78 | 84 | 20.0 |
| 1982 | 171 | 568.81 | 66 | 25.0 | | | 218 | 570.78 | 84 | 20.0 |
| 1983 | 57 | 561.82 | 22 | 25.0 | | | 121 | 566.29 | 47 | 20.0 |
| 1984 | 63 | 562.35 | 25 | 25.0 | | | 141 | 567.36 | 55 | 20.0 |
| 1985 | 76 | 563.34 | 29 | 25.0 | | | 152 | 567.89 | 59 | 20.0 |
| 1986 | 19 | 557.17 | 7 | 25.0 | | | 100 | 565.01 | 39 | 20.0 |
| 1987 | 3 | 552.61 | 1 | 25.0 | | | 83 | 563.87 | 32 | 20.0 |
| 1988 | 3 | 552.67 | 1 | 0.1 | 106 | 179 | 6 | 554.15 | 2 | 20.0 |
| 1989 | 51 | 561.21 | 20 | 25.0 | | | 111 | 565.70 | 43 | 20.0 |
| 1990 | 3 | 552.80 | 1 | 4.8 | 37 | 47 | 53 | 561.45 | 21 | 20.0 |
| 1991 | 62 | 562.23 | 24 | 25.0 | | | 138 | 567.22 | 54 | 20.0 |
| 1992 | 125 | 566.47 | 48 | 25.0 | | | 174 | 568.93 | 67 | 20.0 |
| 1993 | 141 | 567.36 | 55 | 25.0 | | | 205 | 570.26 | 79 | 20.0 |
| 1994 | 129 | 566.70 | 50 | 25.0 | | | 195 | 569.85 | 76 | 20.0 |
| 1995 | 125 | 566.47 | 48 | 25.0 | | | 204 | 570.24 | 79 | 20.0 |
| 1996 | 162 | 568.40 | 63 | 25.0 | | | 217 | 570.75 | 84 | 20.0 |
| 1997 | 210 | 570.46 | 81 | 25.0 | | | 249 | 571.95 | 96 | 20.0 |
| 1998 | 138 | 567.19 | 53 | 25.0 | | | 205 | 570.27 | 79 | 20.0 |
| average | 143 | 566.20 | 55 | 24.0 | | | 191 | 569.19 | 74 | 20.9 |
| min. | 3 | 552.61 | 1 | 0.1 | | | 6 | 554.15 | 2 | 20.0 |



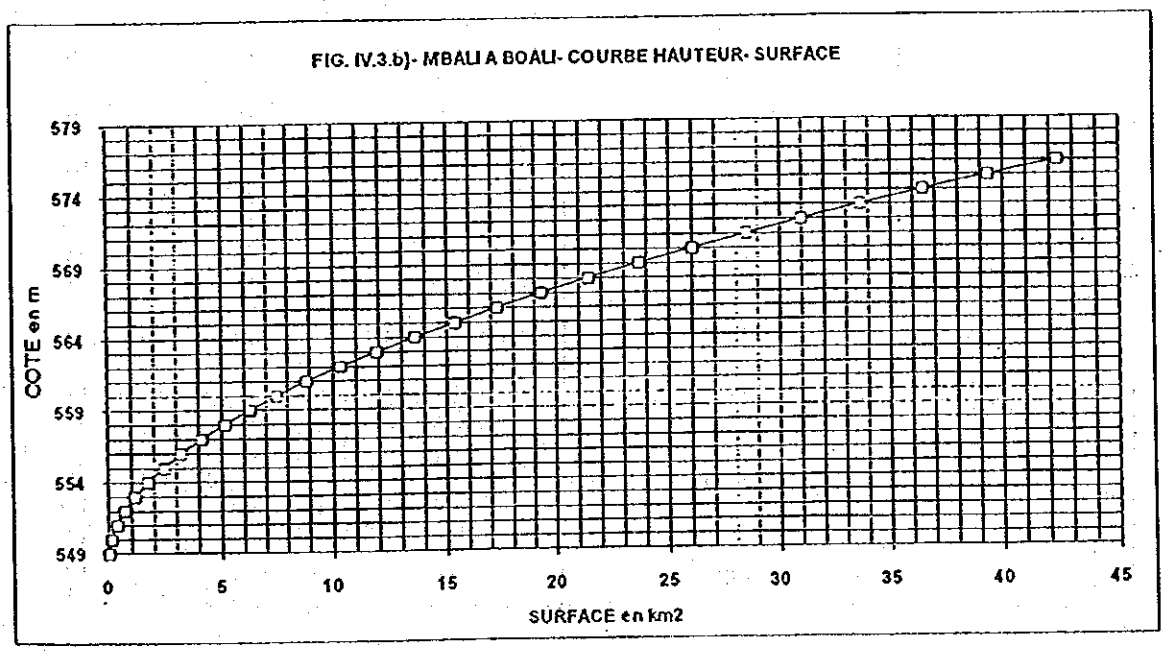
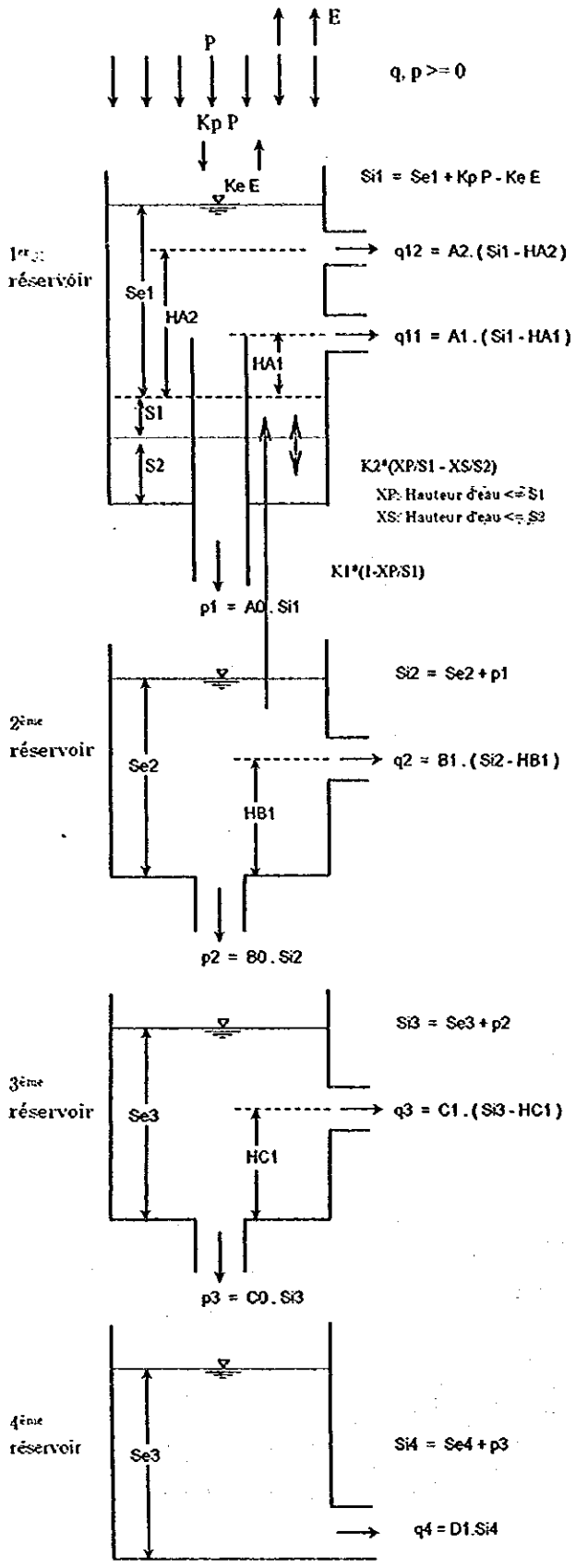
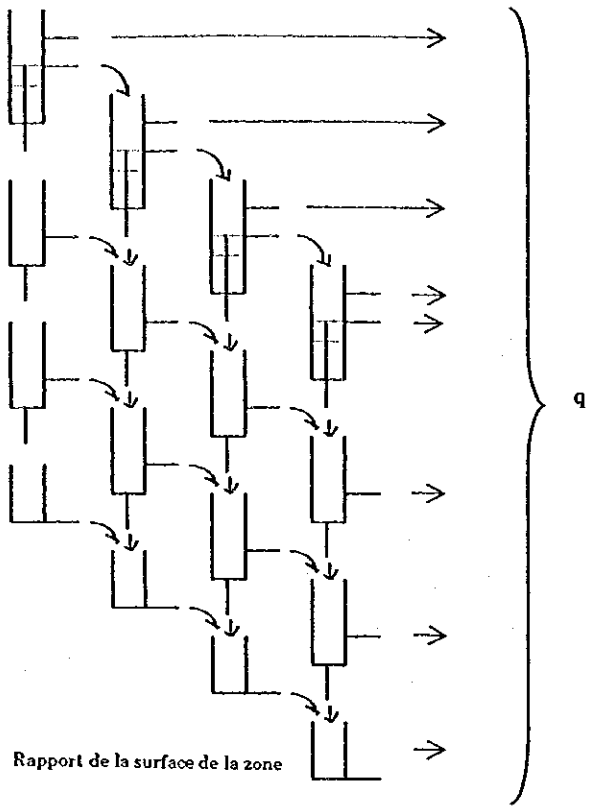




Fig. 1 Courbes H-V et H-A du barrage de Boali




| S1 | | S2 | | S3 | | S4 |
|---|---|---|---|---|---|---|
| $1.8^3$ | : | $1.8^2$ | : | 1.8 | : | 1 |

| Paramètre | | Rivière Mbali | | |
|---|---|---|---|---|
| Bassin versant (km²) | | 4560 | | |
| Multiplication par la constante de sortie | | c-0 | c-1 | c-2 |
| - 1er réservoir | A | 0.20 | 0.10 | 0.12 |
| - 2ème réservoir | B | 0.03 | 0.07 | |
| - 3ème réservoir | C | 0.005 | 0.01 | |
| - 4ème réservoir | D | | 0.001 | |
| Hauteur de sortie (min.) | | H0 | H1 | H2 |
| - 1er réservoir | A | 10 | 10 | 120 |
| - 2ème réservoir | B | | 10 | |
| - 3ème réservoir | C | | 10 | |
| - 4ème réservoir | D | | 0 | |
| K1 : 1 | K2 : 5 | S1: 10 | S2 : 50 | |
| Facteur d'évaporation | | | 1.0 | |
| Facteur d'évaporation pour les réservoirs inférieures | | | 0.8 | |
| Hauteur de la station d'observation des précipitations | | Bossembele : | | 1 |
| | | Bangui-Mpoko : | | 1/4 |
| Taux de précipitations efficaces | | | 1.0 | |
| Facteur précipitations mensuelles | | Jan. - Avr. | 1.0 | |
| | | Mai, Juin | 1.1 | |
| | | Juill. - Déc. | 1.0 | |

Fig. 2 Structure et paramètres du modèle de réservoir sélectionné

Hyétograph à Bossembelo et Courbes de débit à Boali-ICOT (1985)

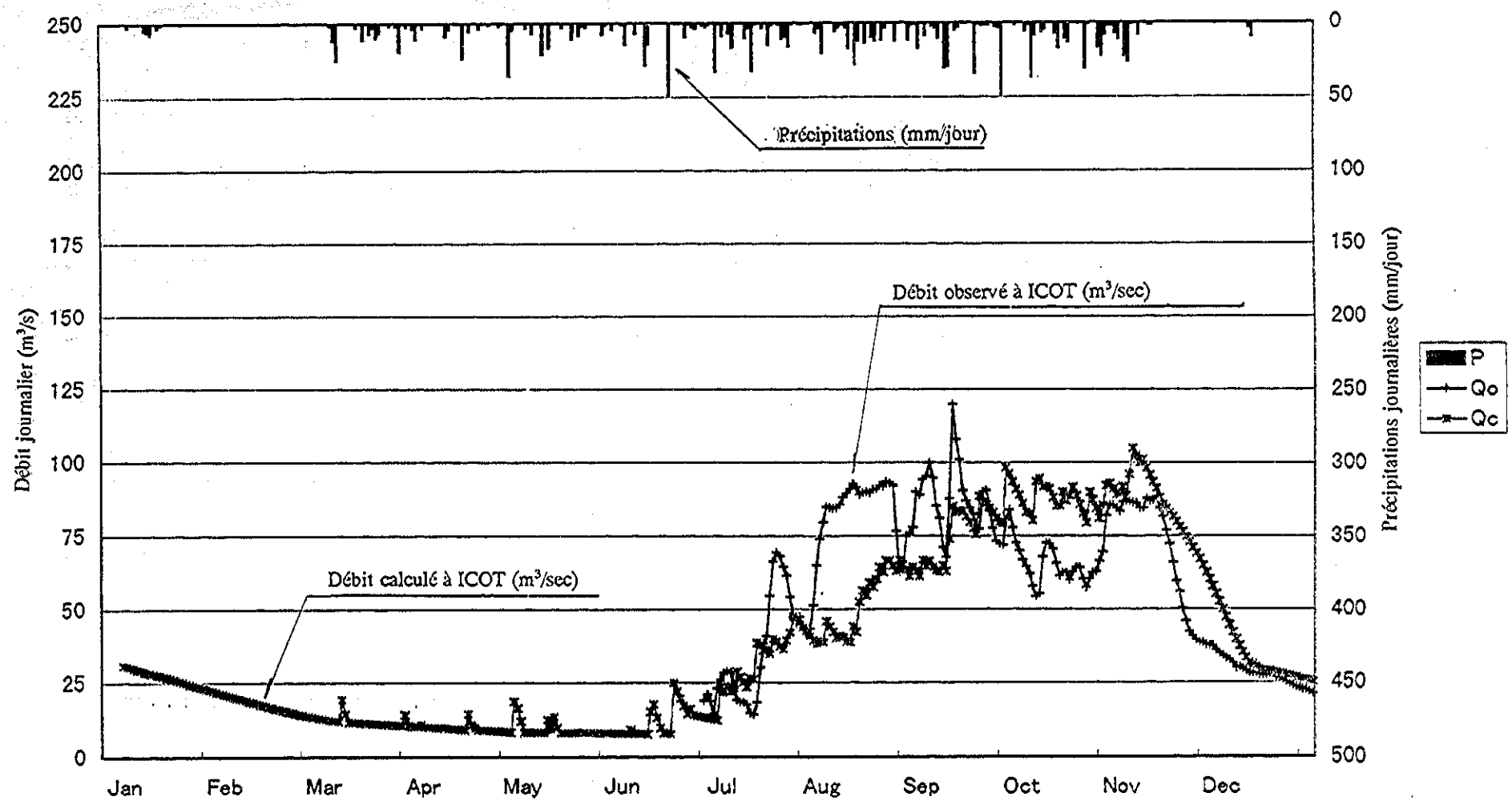
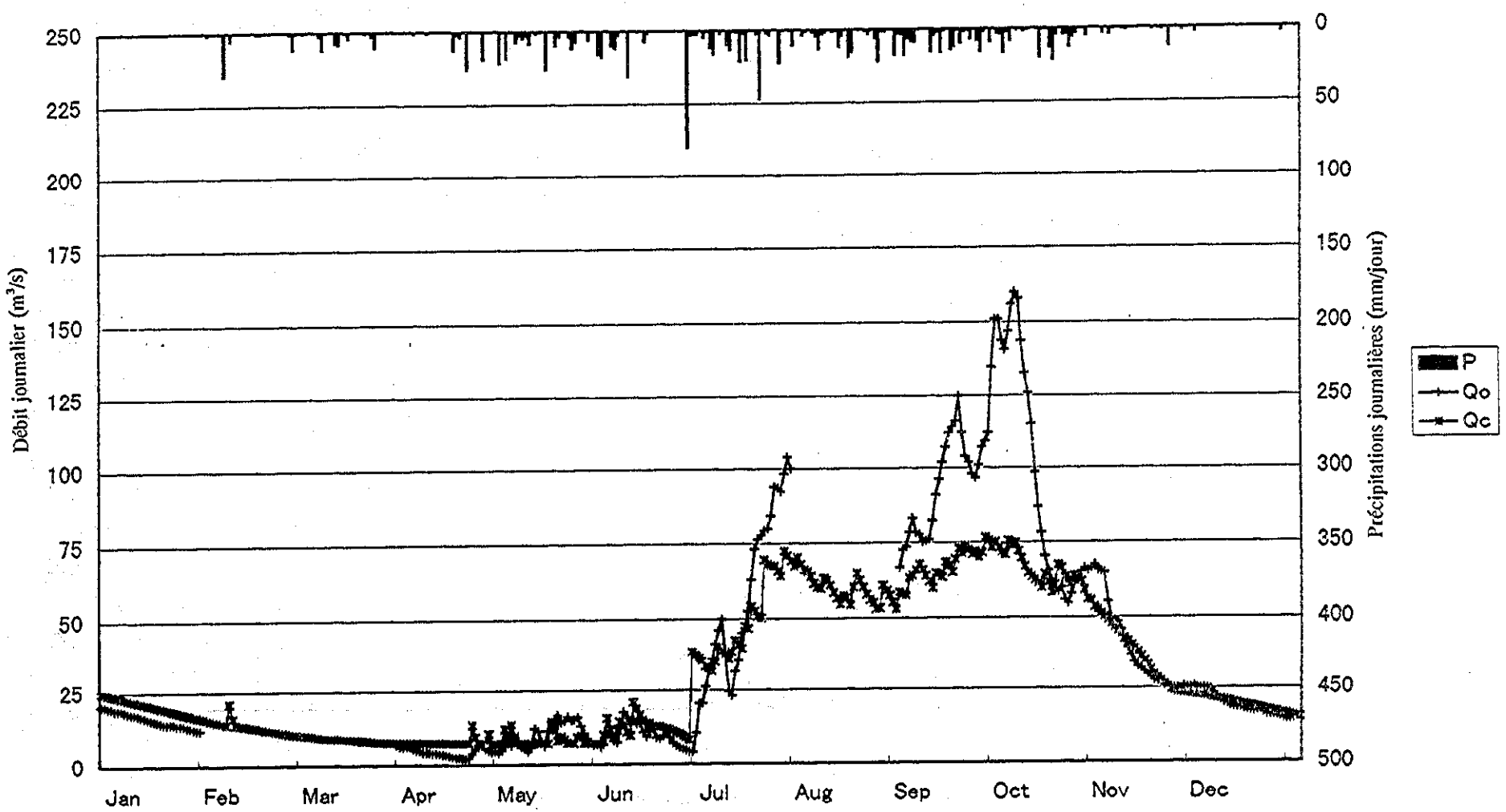
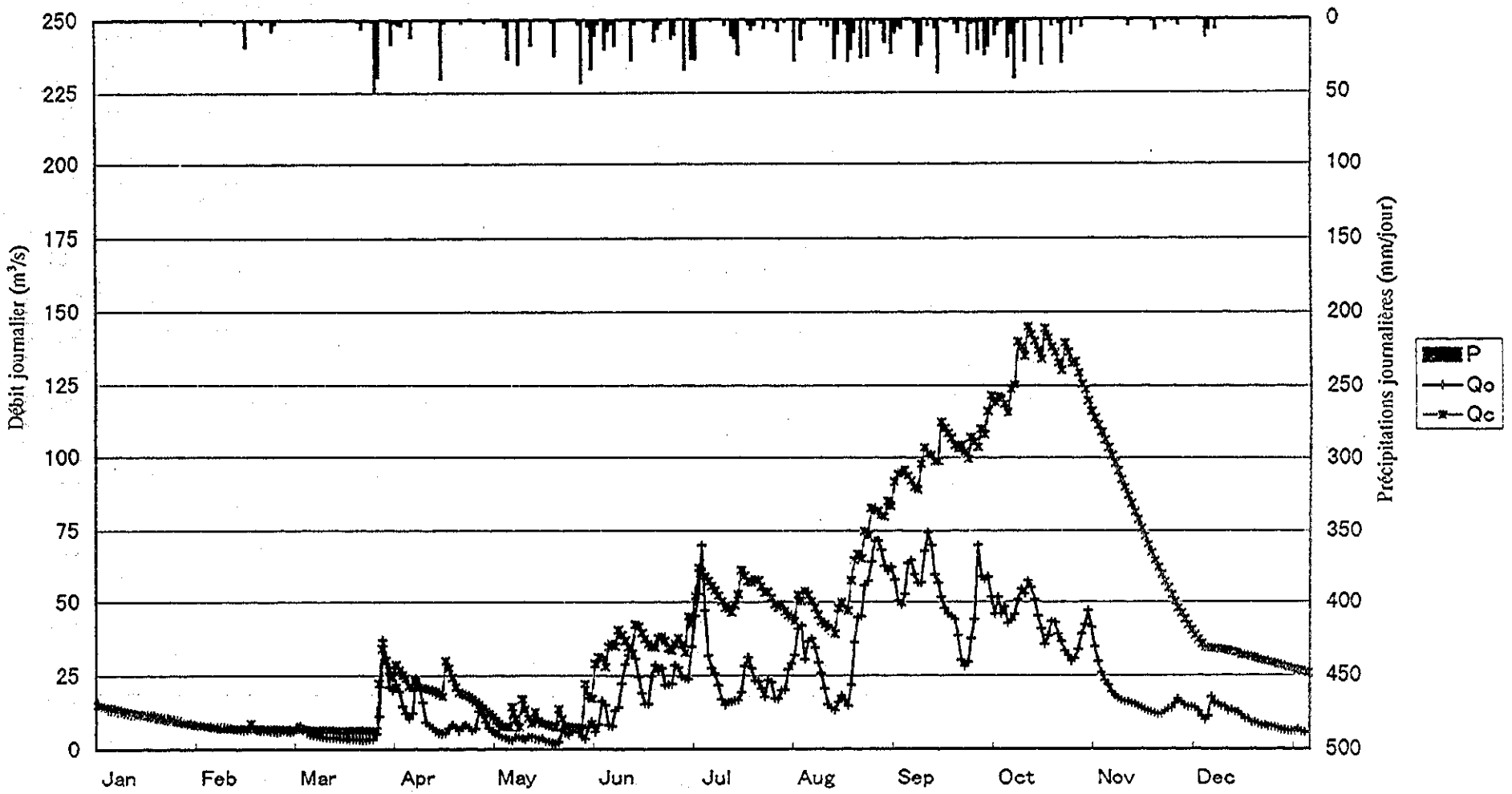



Fig.3 Résultat de calcul de Modèle de Réservoir

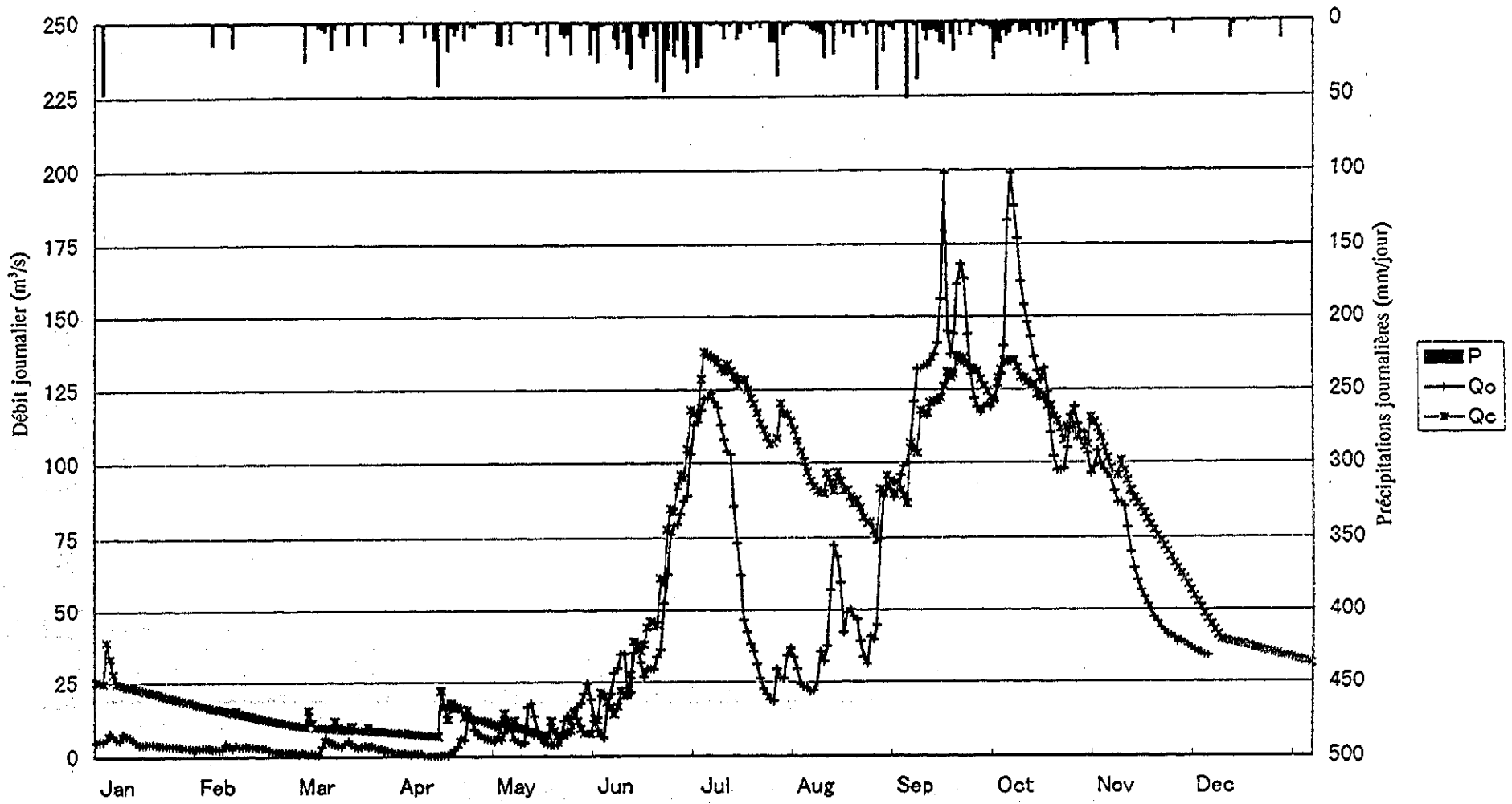
Hyctograph à Bossembele et Courbes de débit à Boali-ICOT (1986)



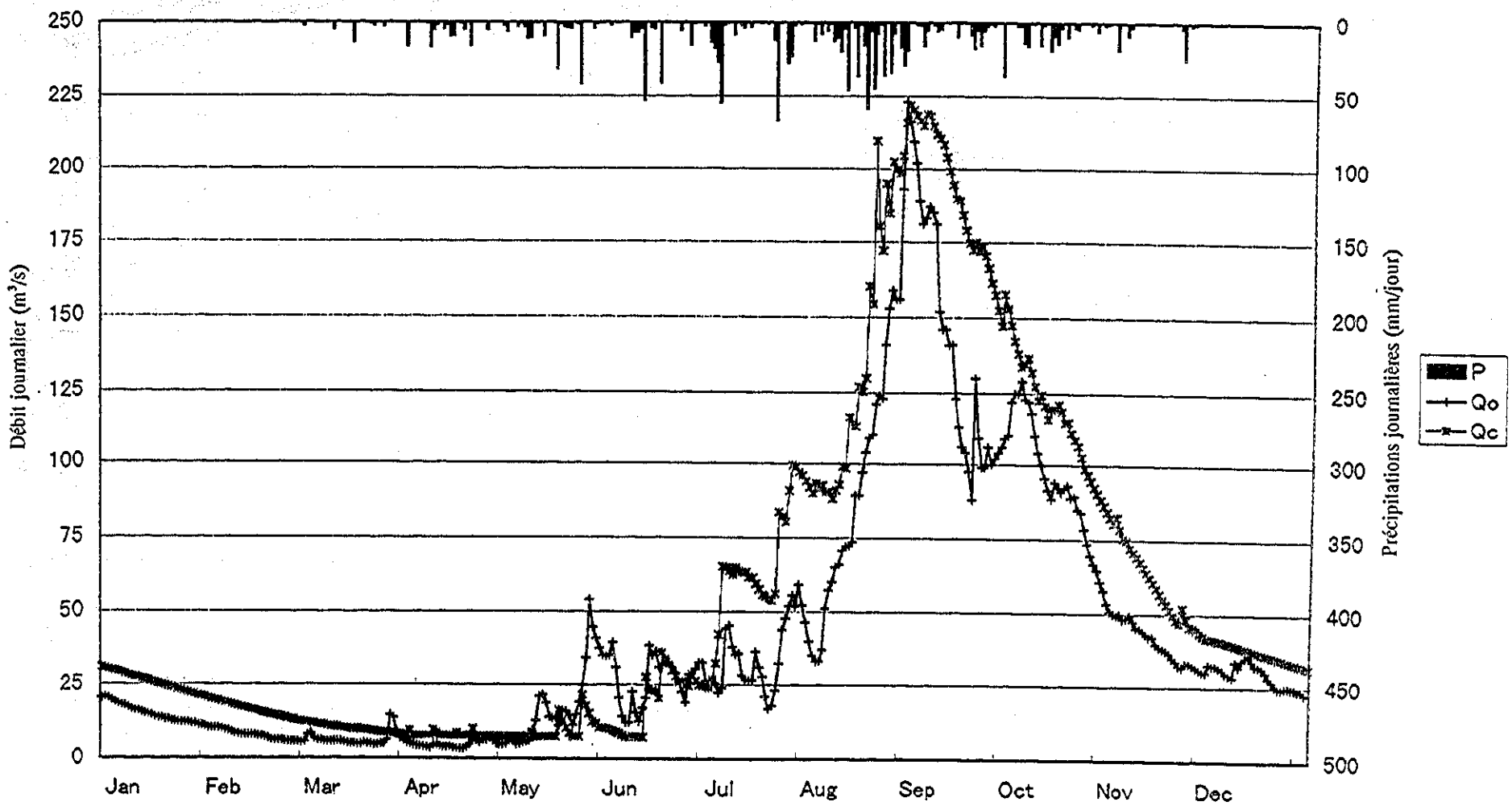
Hyétograph à Bossembele et Courbes de débit à Boali-ICOT (1987)



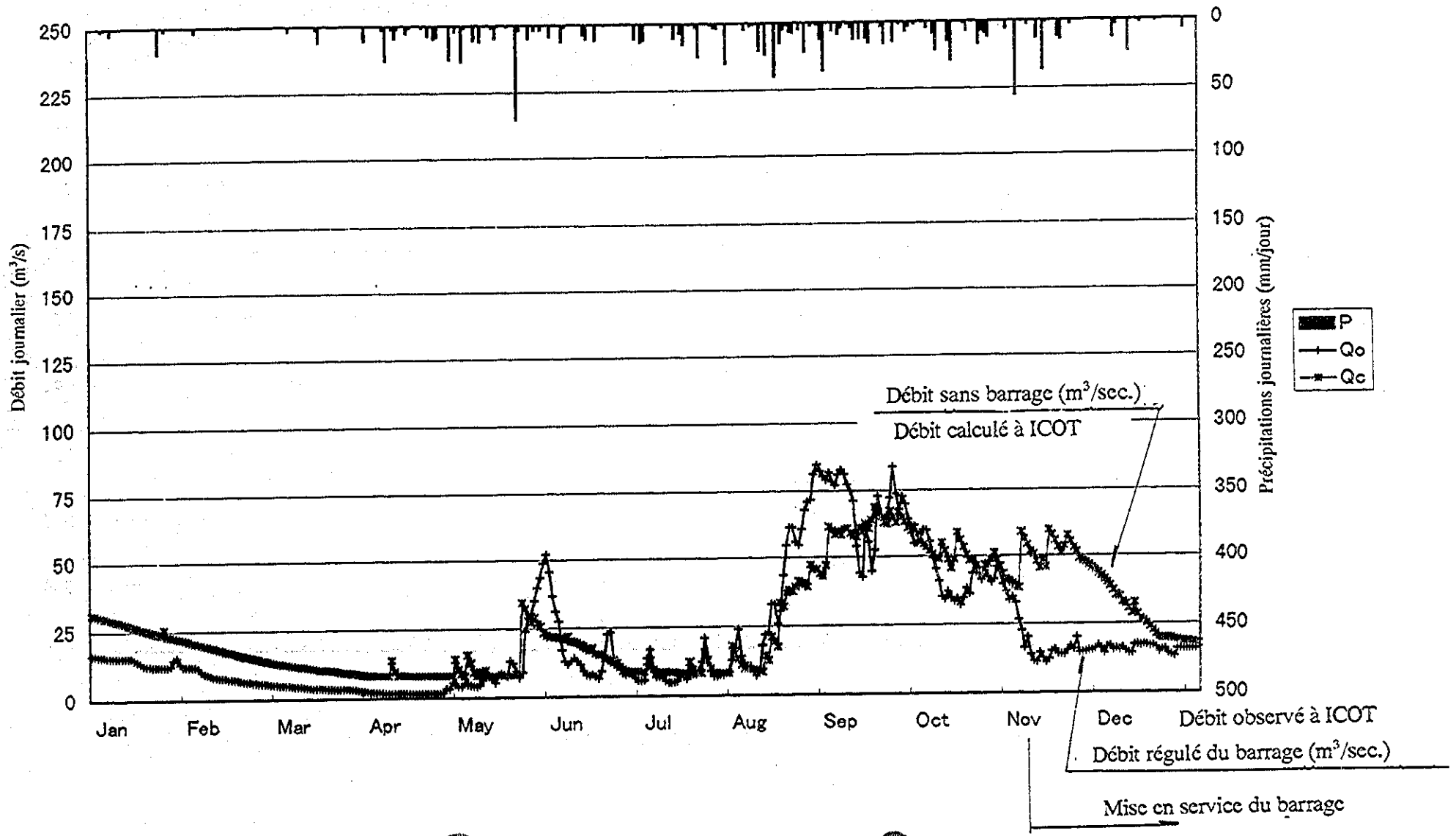
Hyétograph à Bossembele et Courbes de débit à Boali-ICOT (1988)



Hyétograph à Bossembele et Courbes de débit à Boali-ICOT (1989)



Hyétograph à Bossembele et Courbes de débit à Boali-ICOT (1990)



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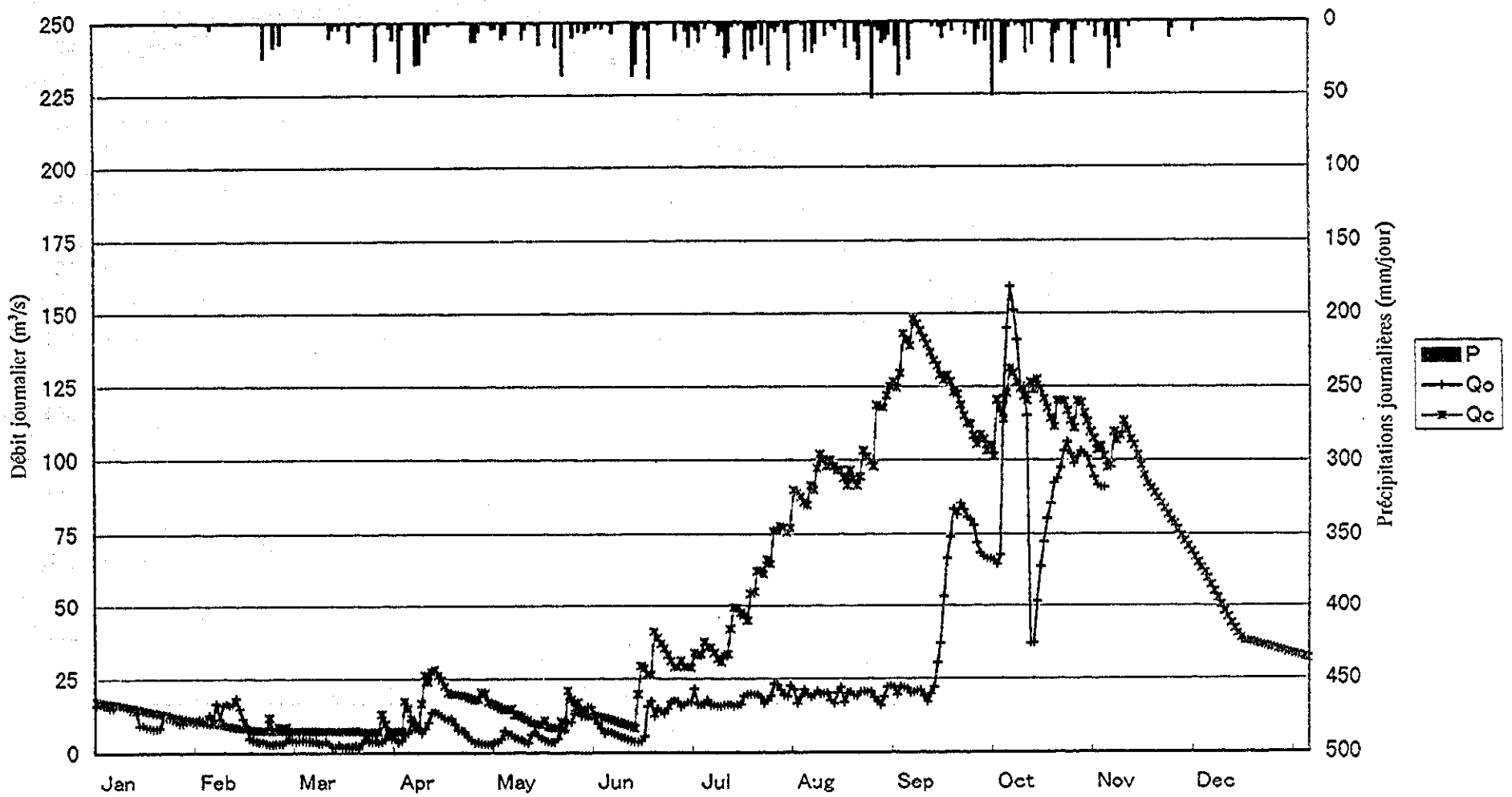

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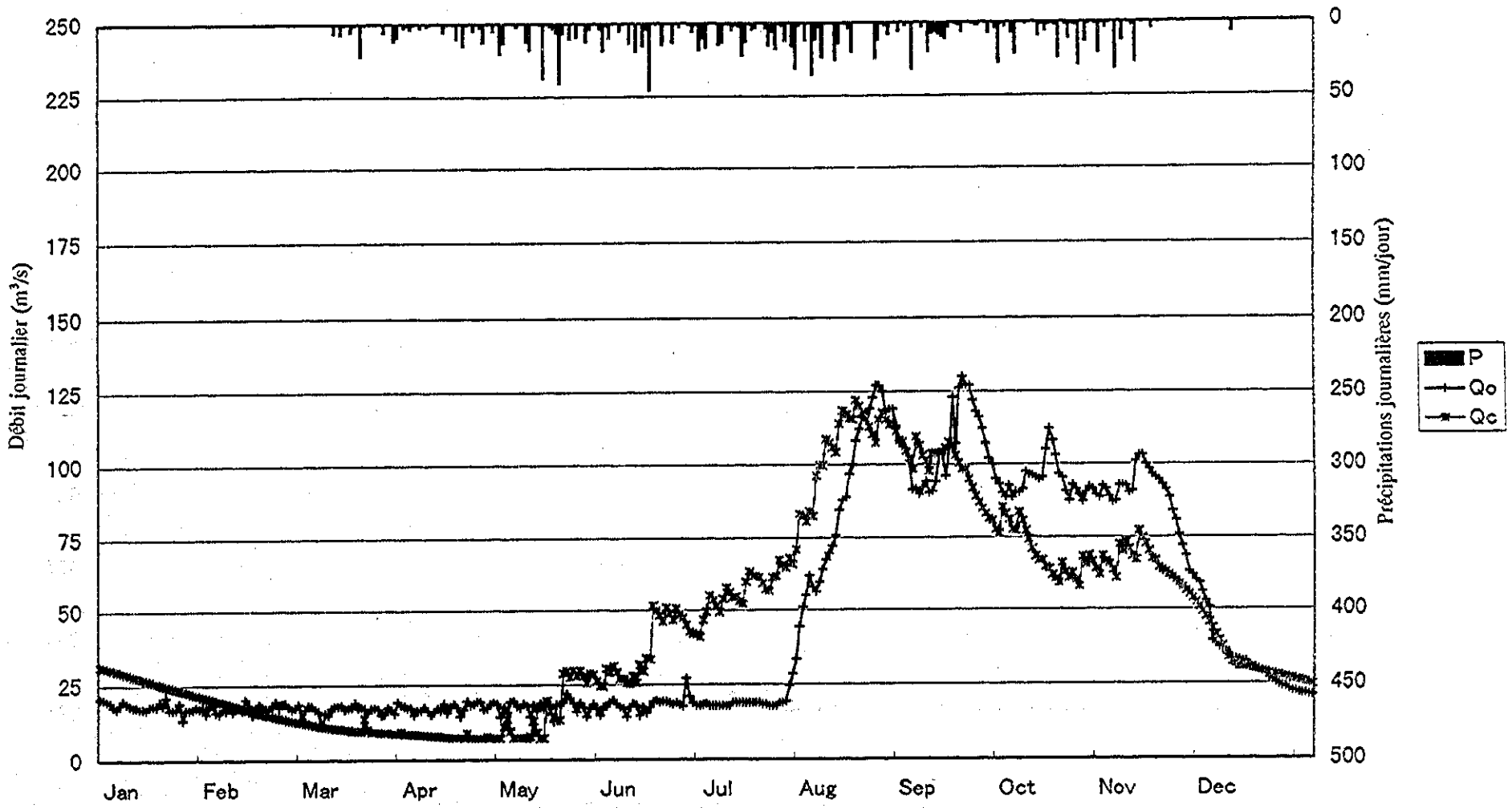


Bilan hydrologique du barrage de BOALI(1964)

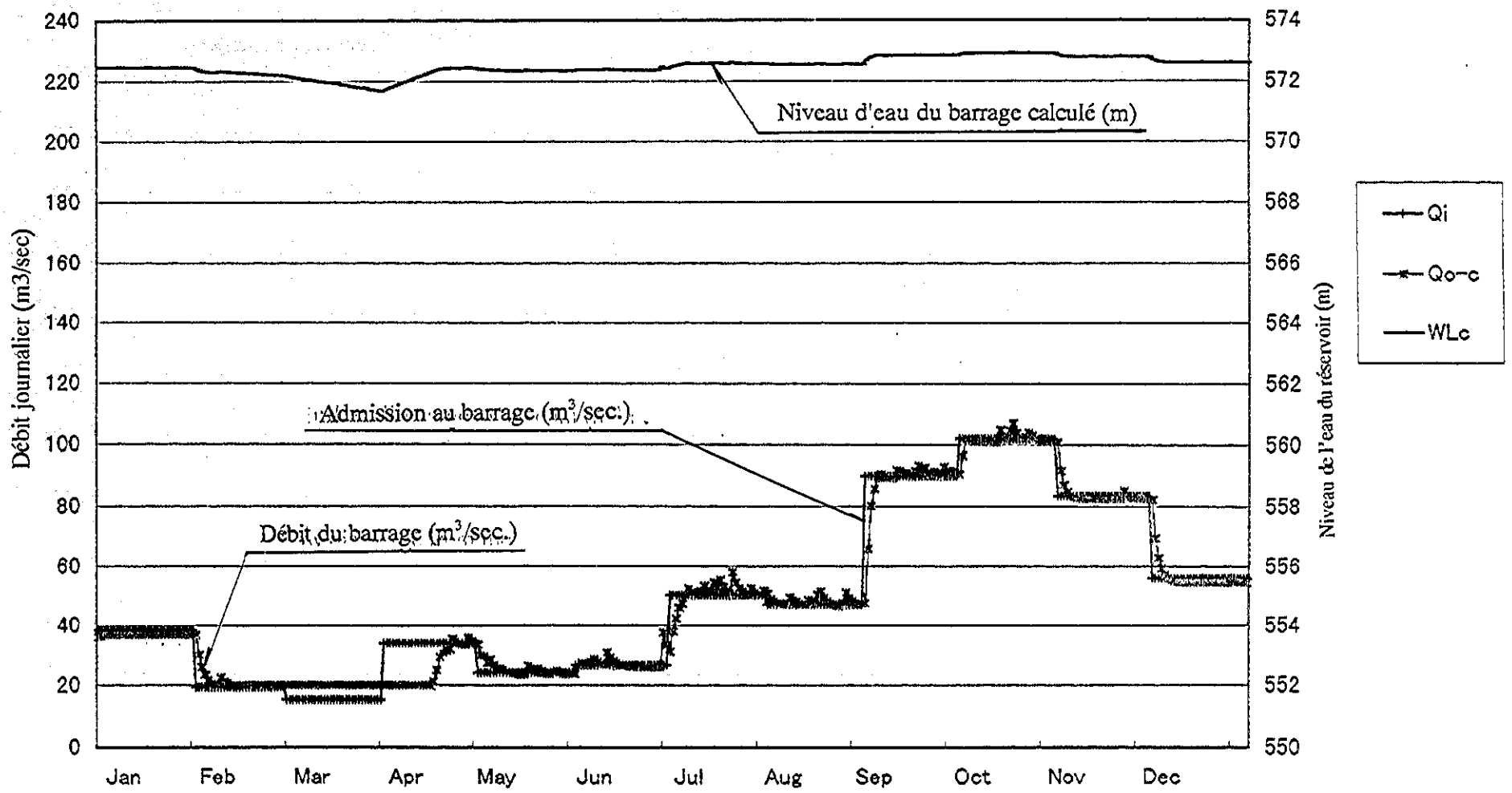
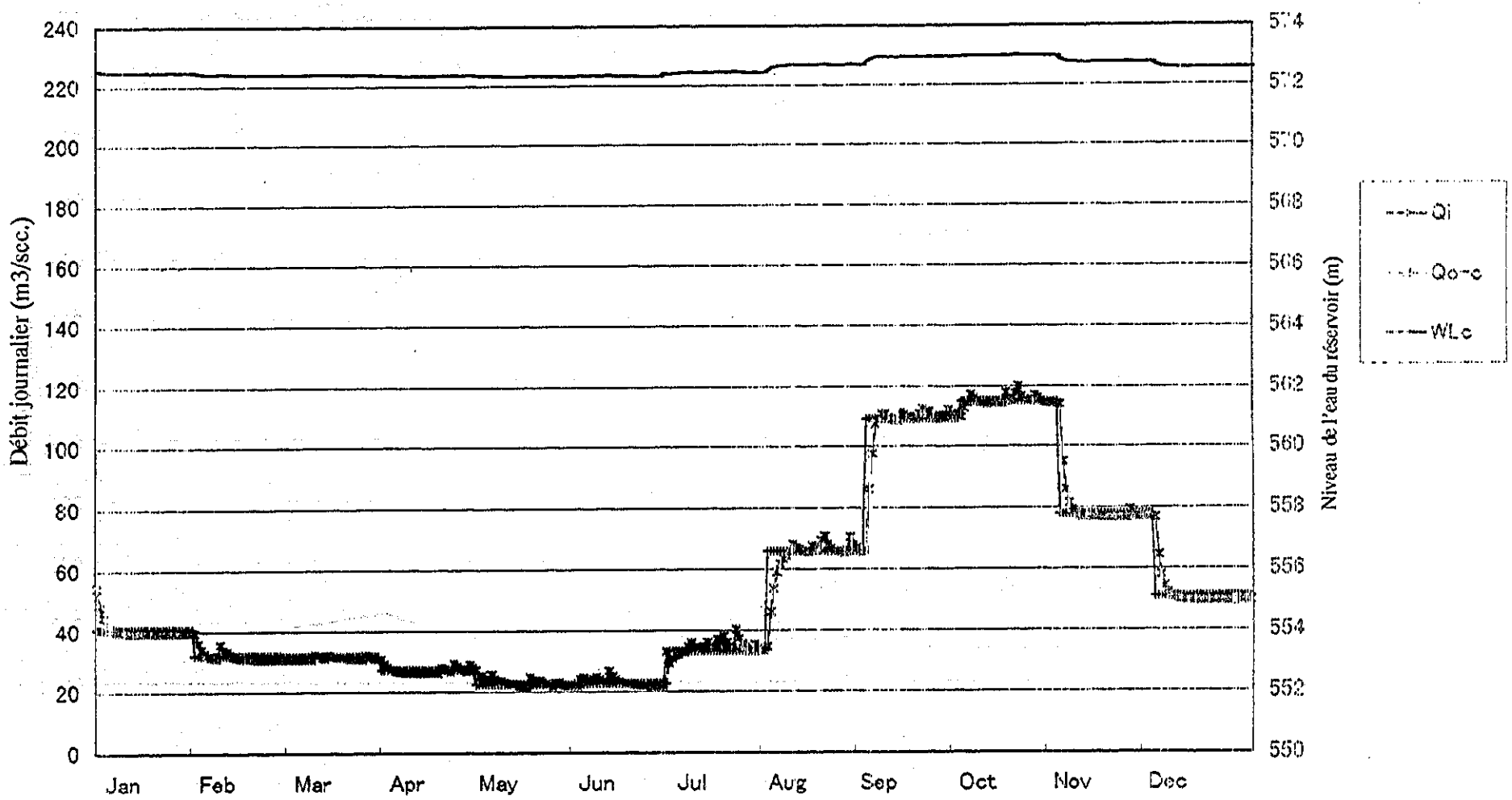
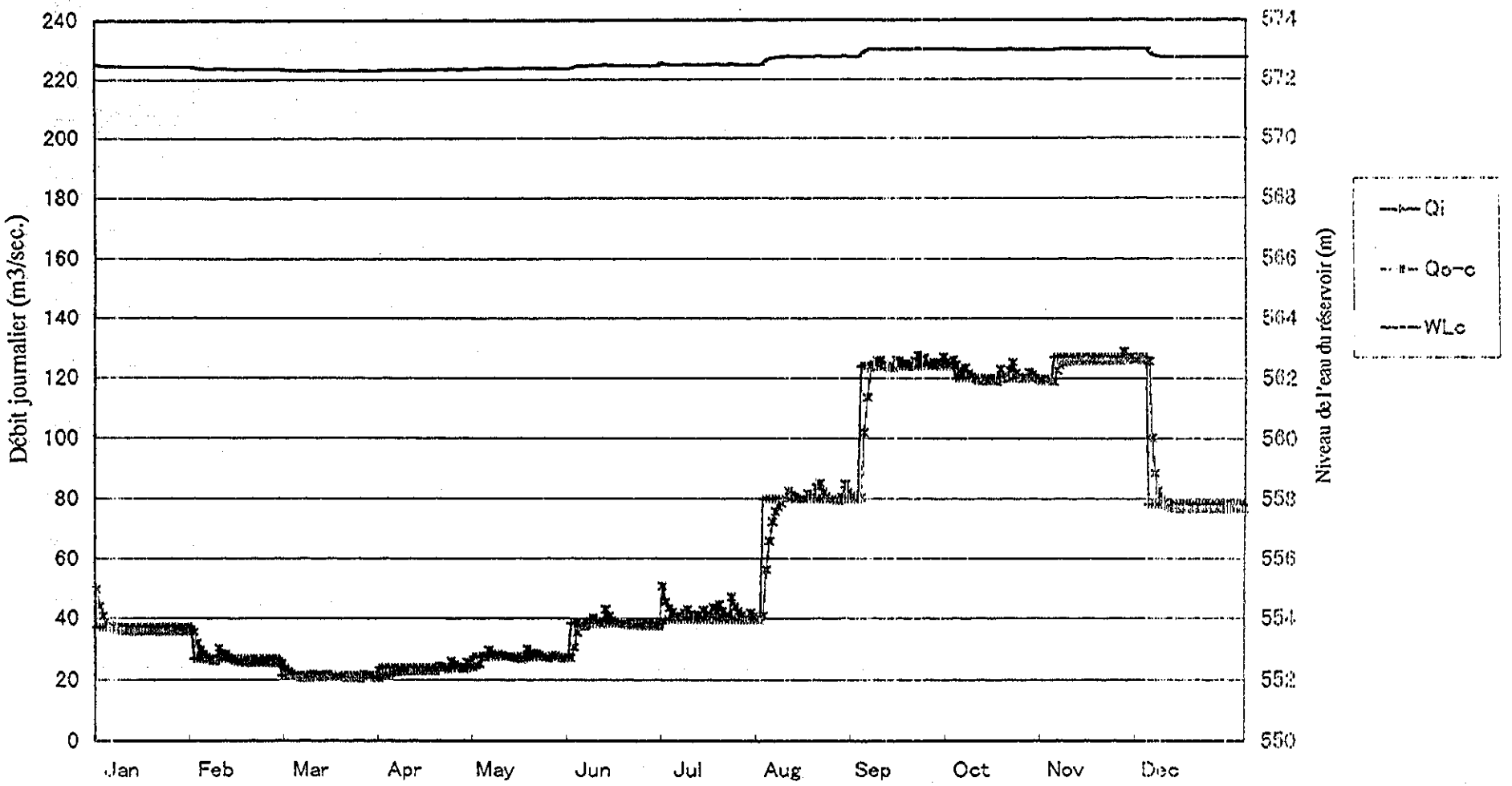



Fig. 4. Bilan hydrologique du barrage de Boali (Qb = 20m3/sec) 1964～1998

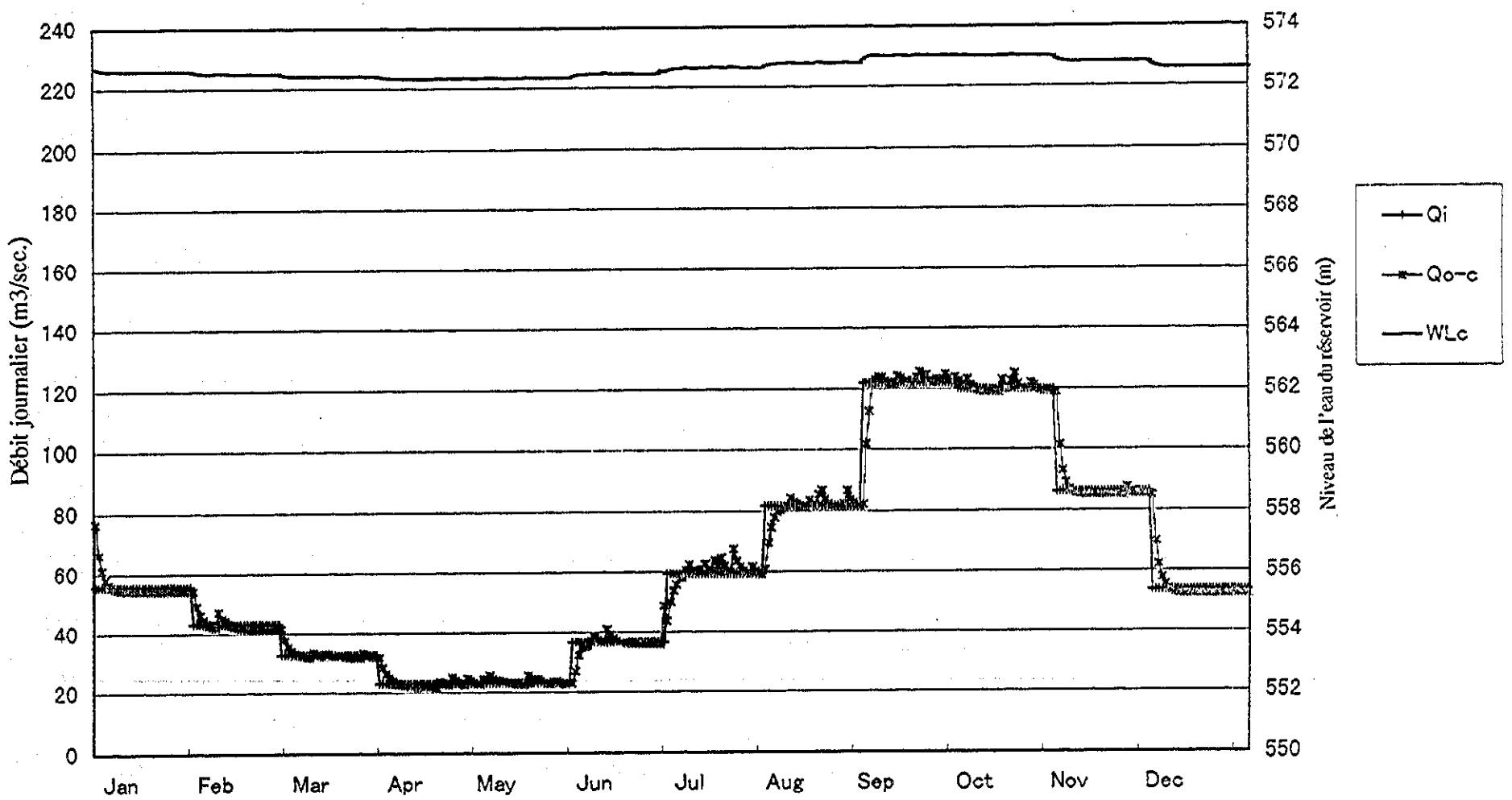
Bilan hydrologique du barrage de BOALI(1965)



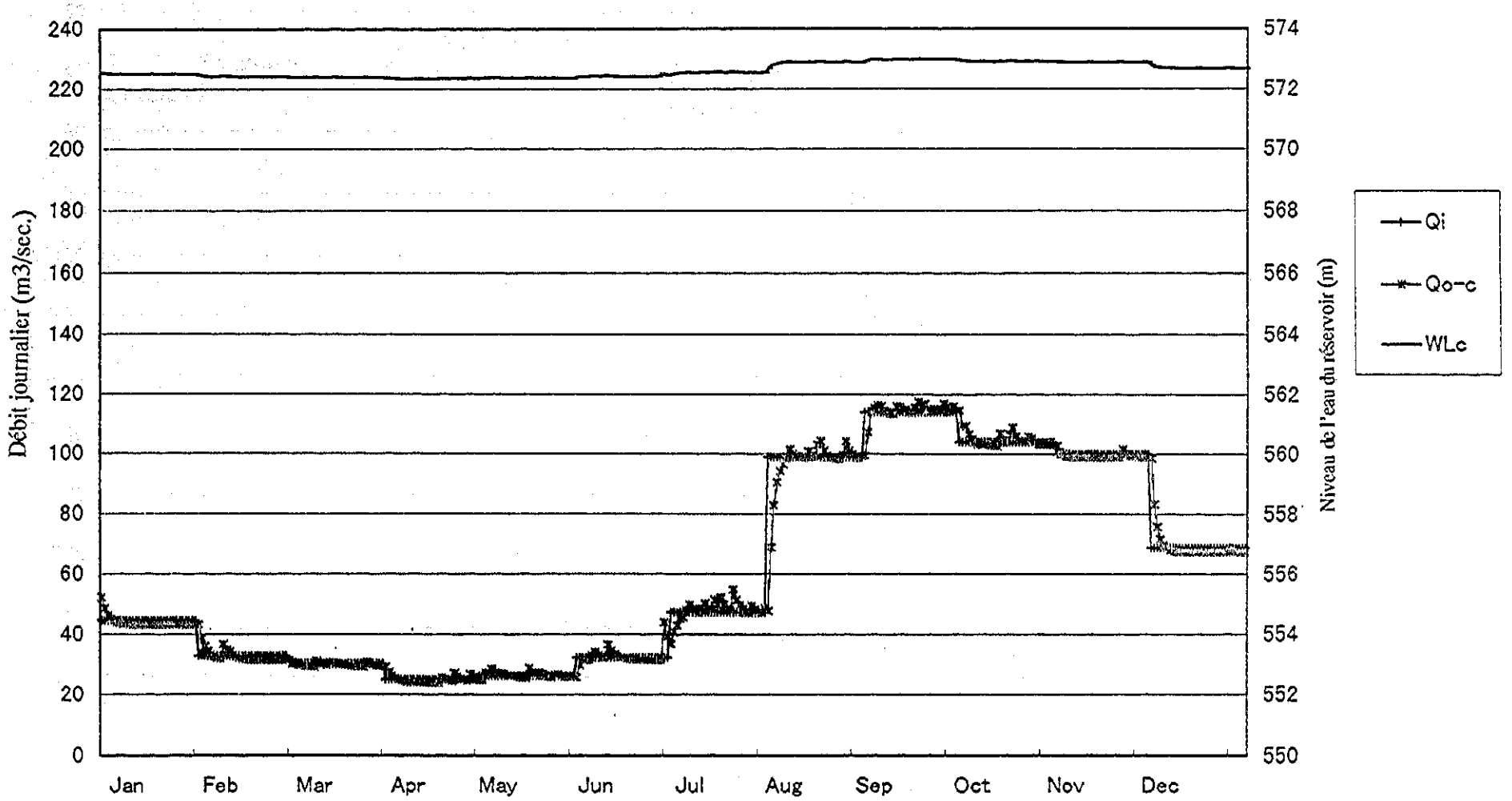
Bilan hydrologique du barrage de BOALI(1966)



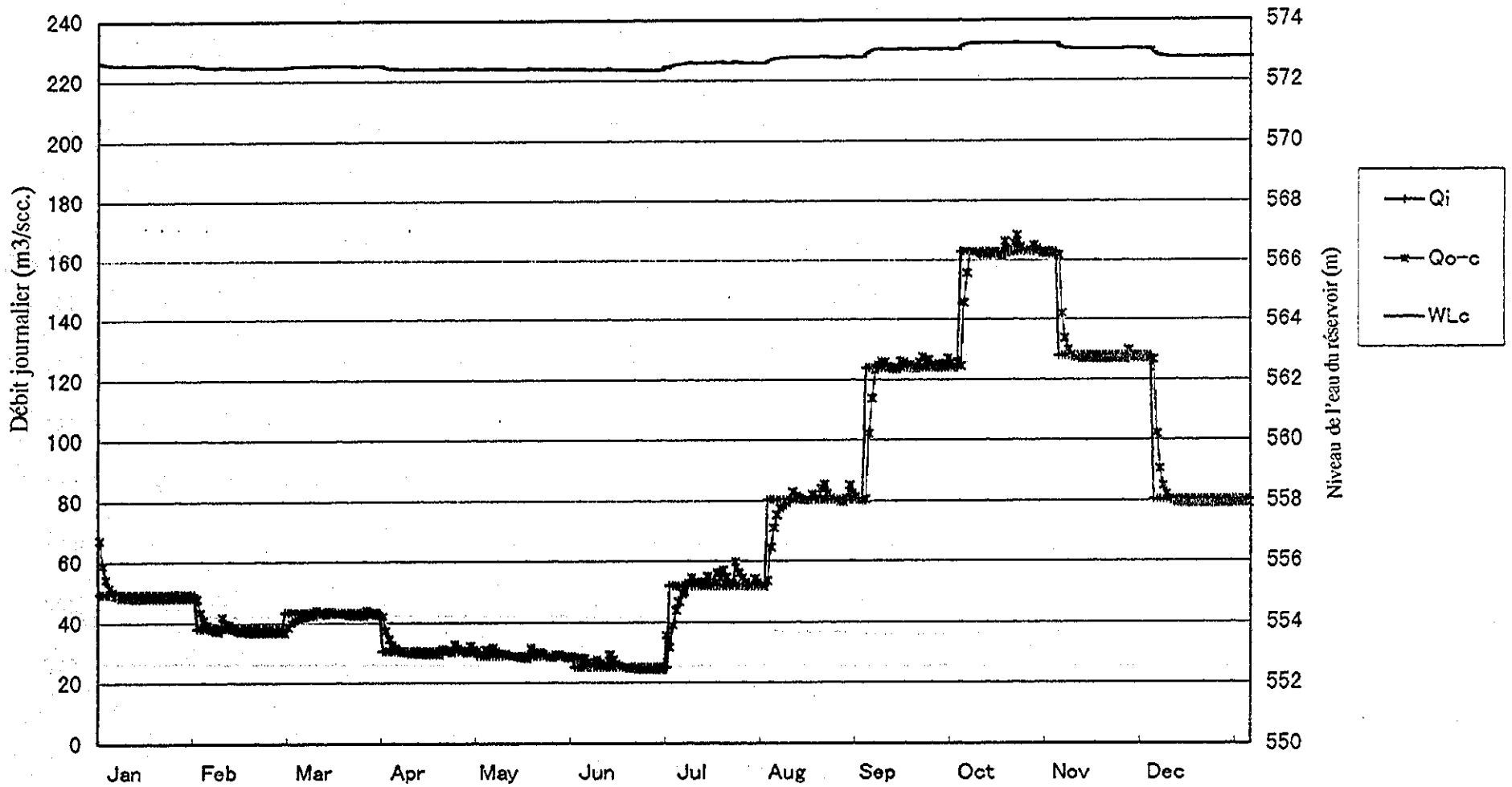
Bilan hydrologique du barrage de BOALI(1967)



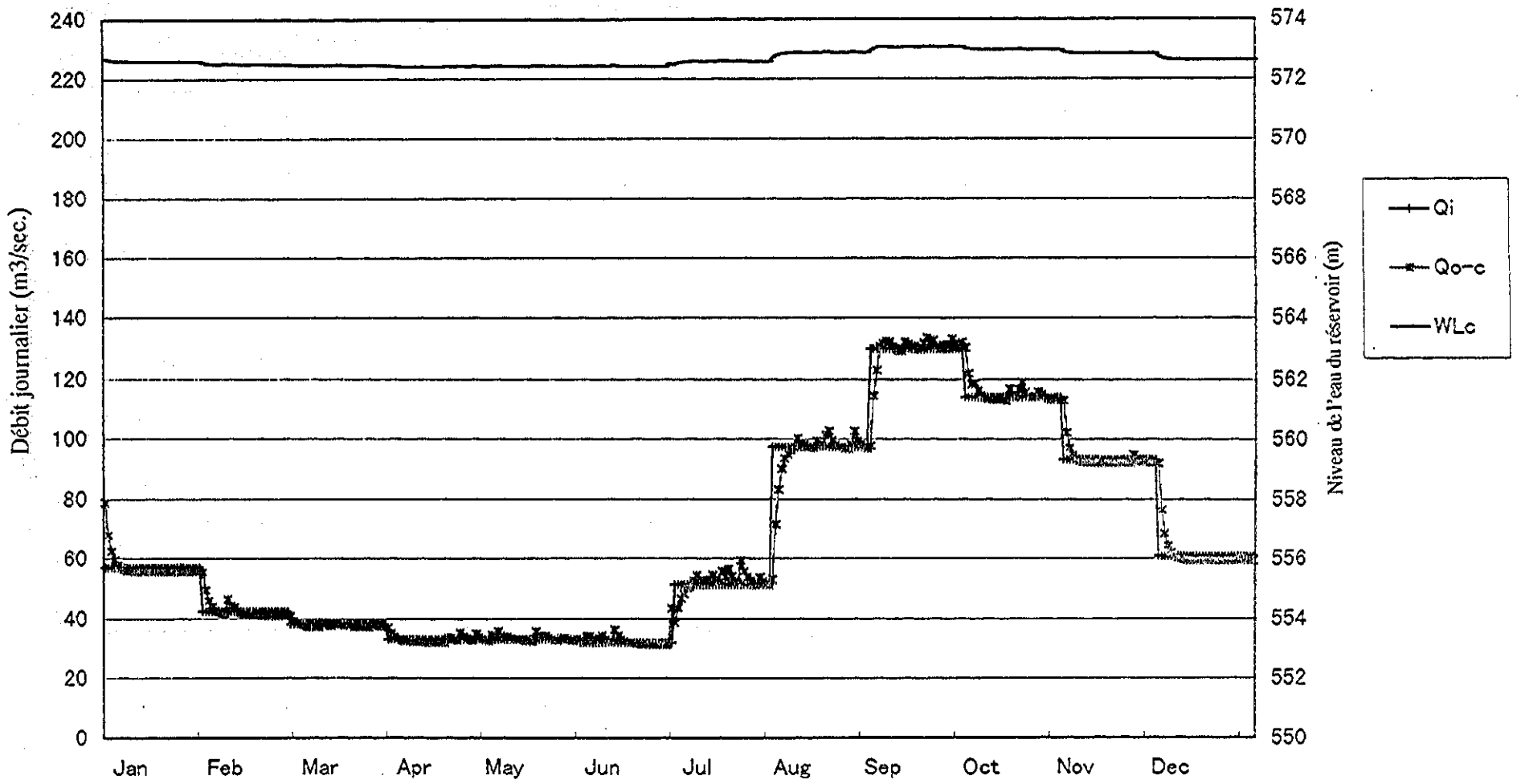
Bilan hydrologique du barrage de BOALI(1968)



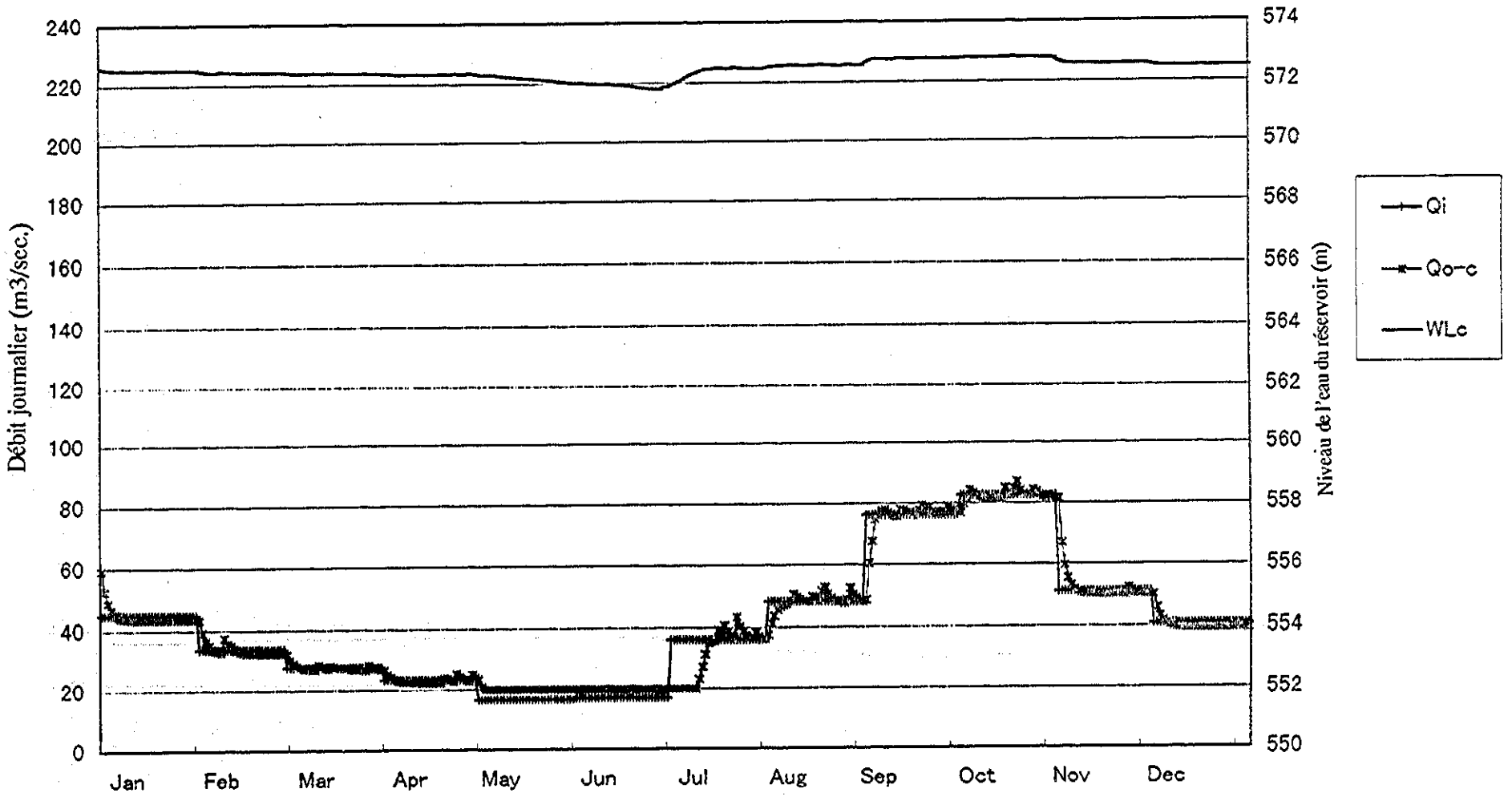
Bilan hydrologique du barrage de BOALI(1969)



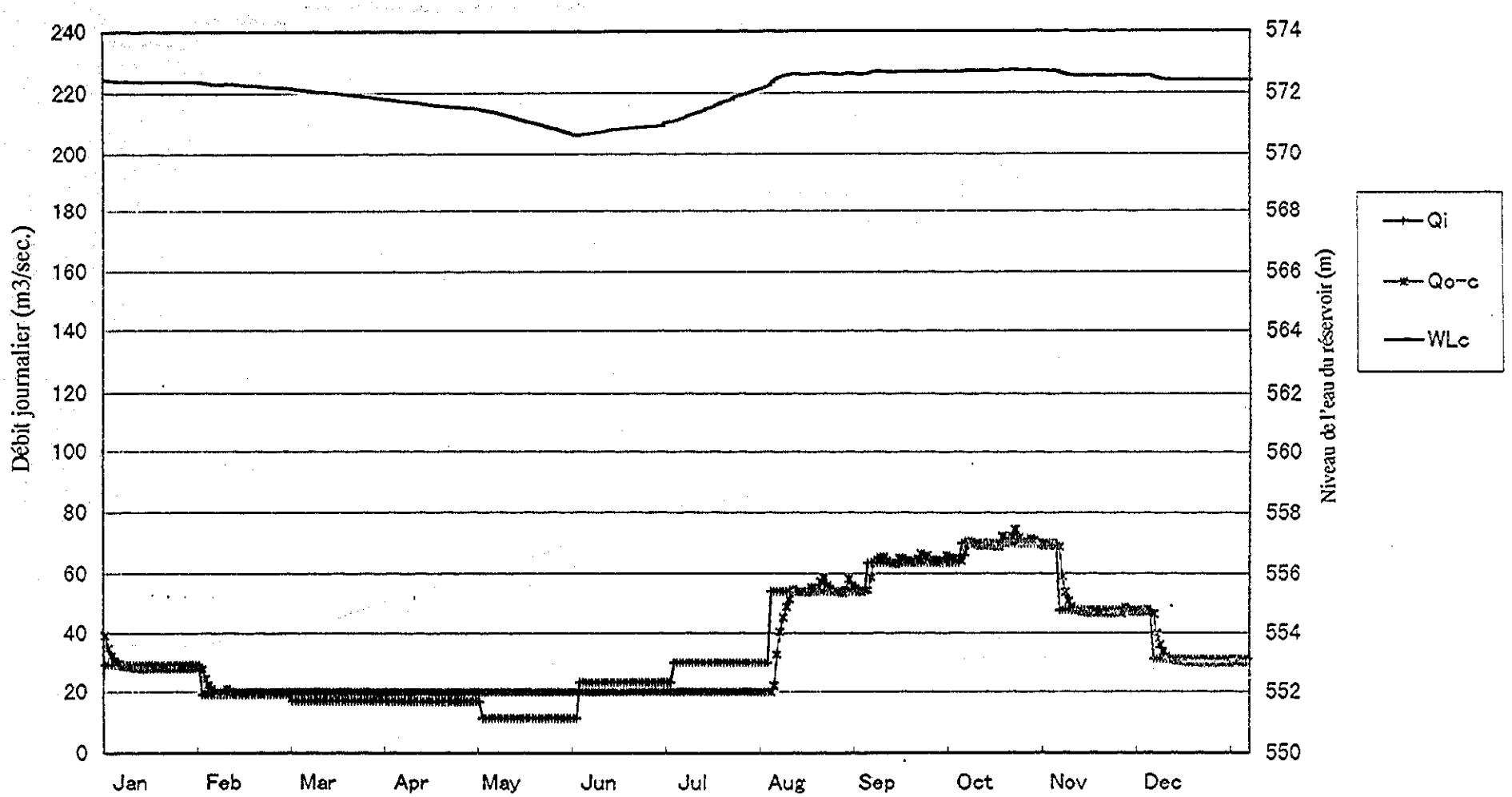
Bilan hydrologique du barrage de BOALI(1970)



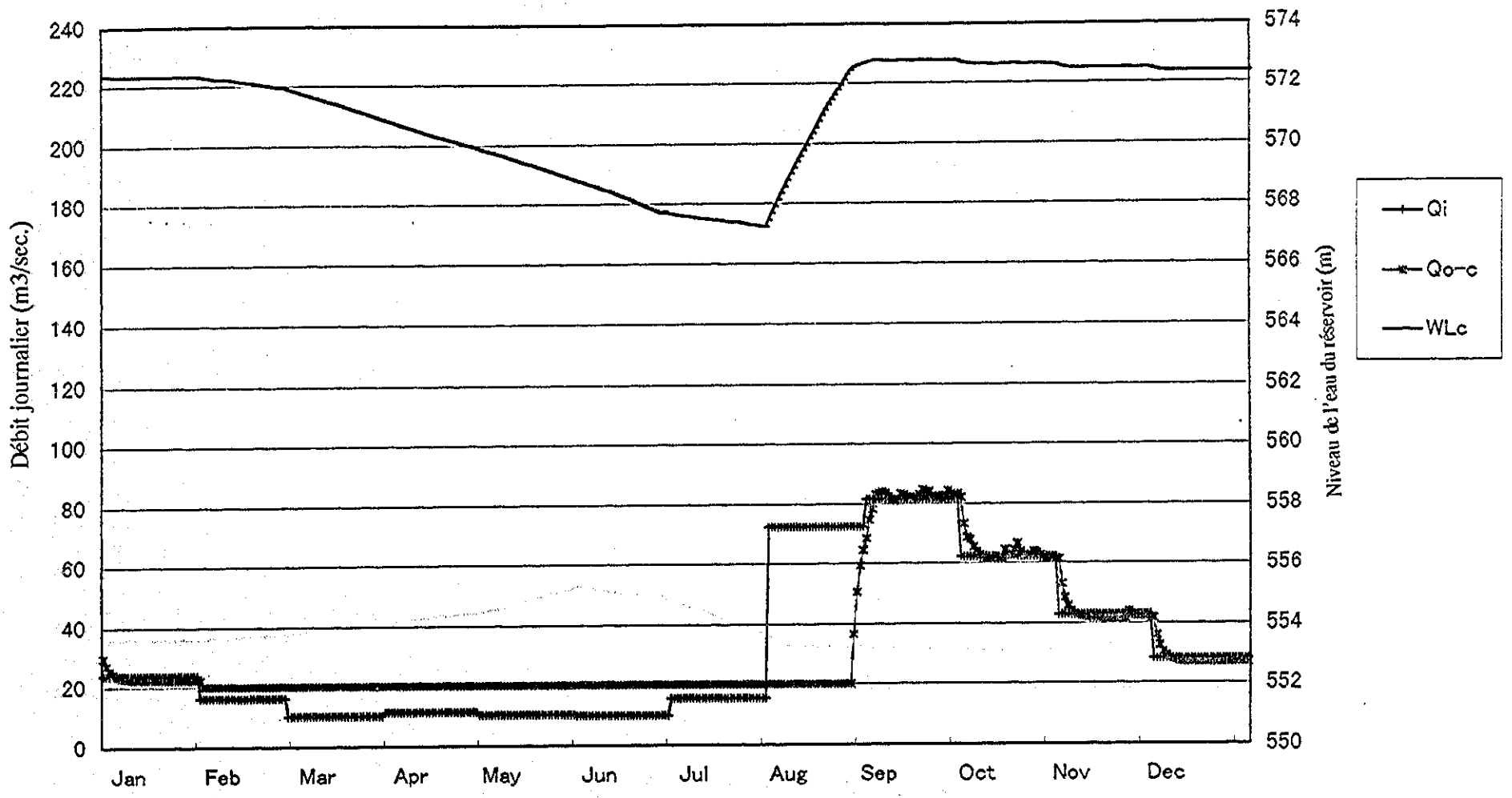
Bilan hydrologique du barrage de BOALI(1971)



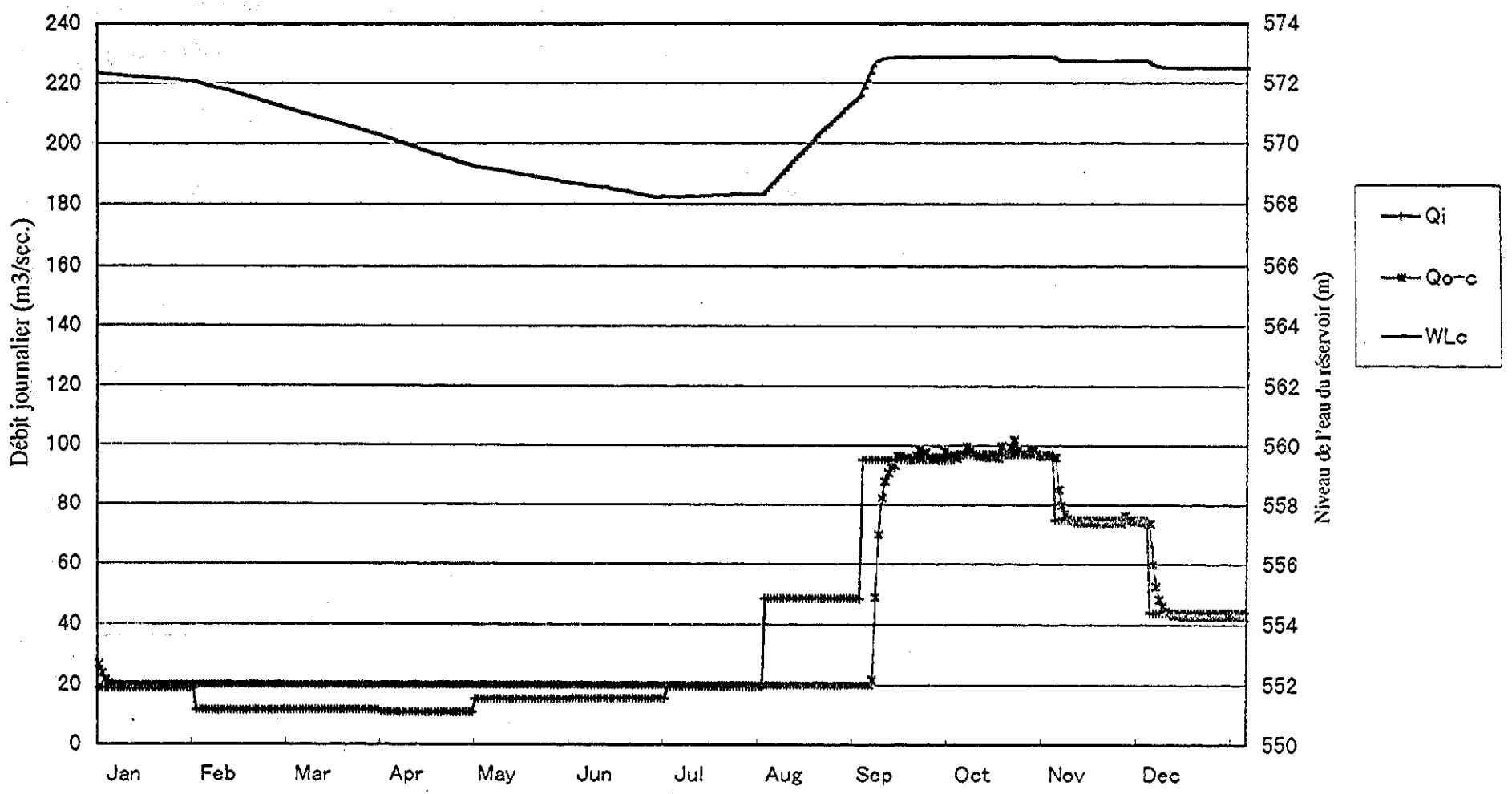
Bilan hydrologique du barrage de BOALI(1972)



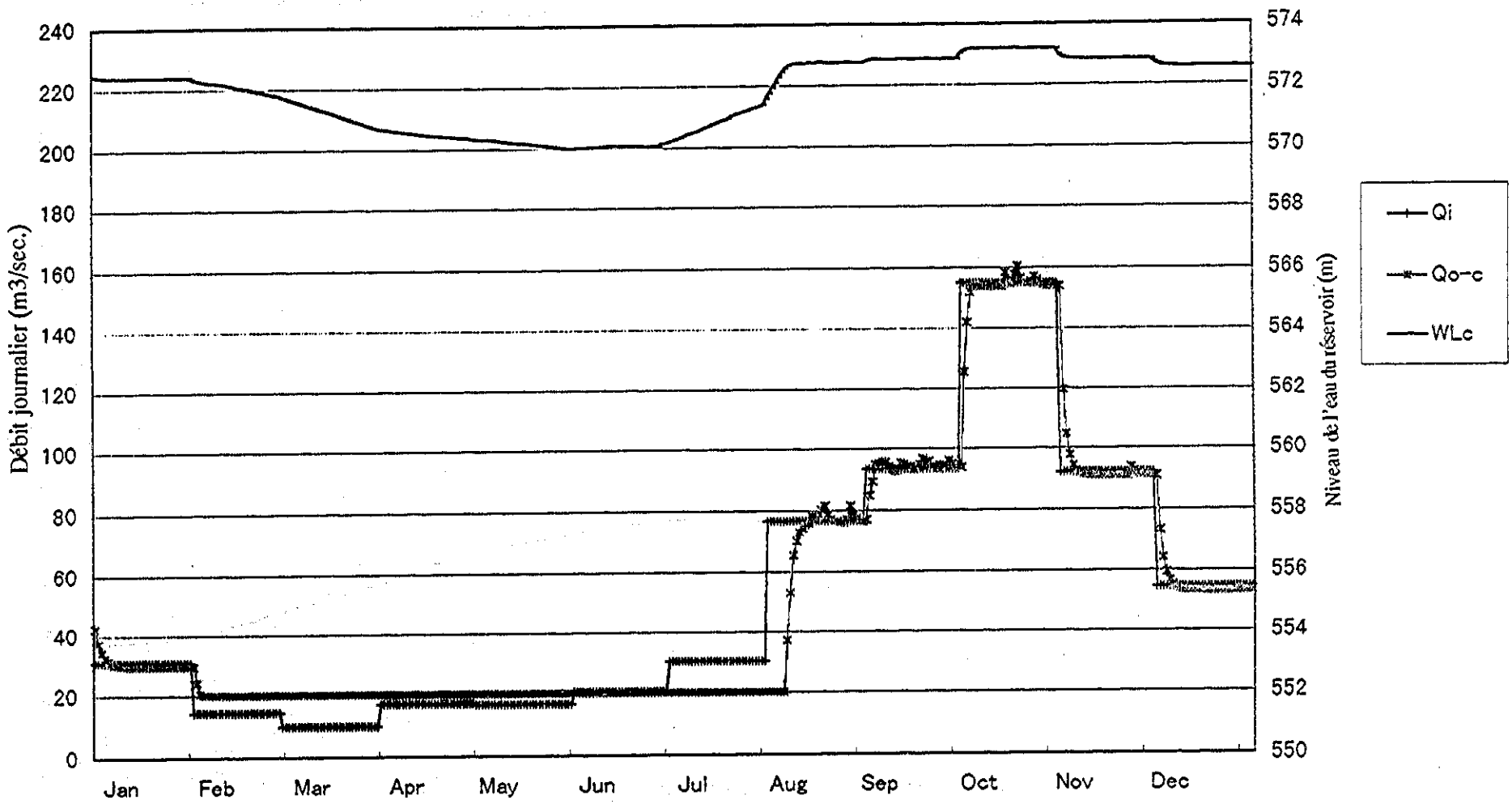
Bilan hydrologique du barrage de BOALI(1973)



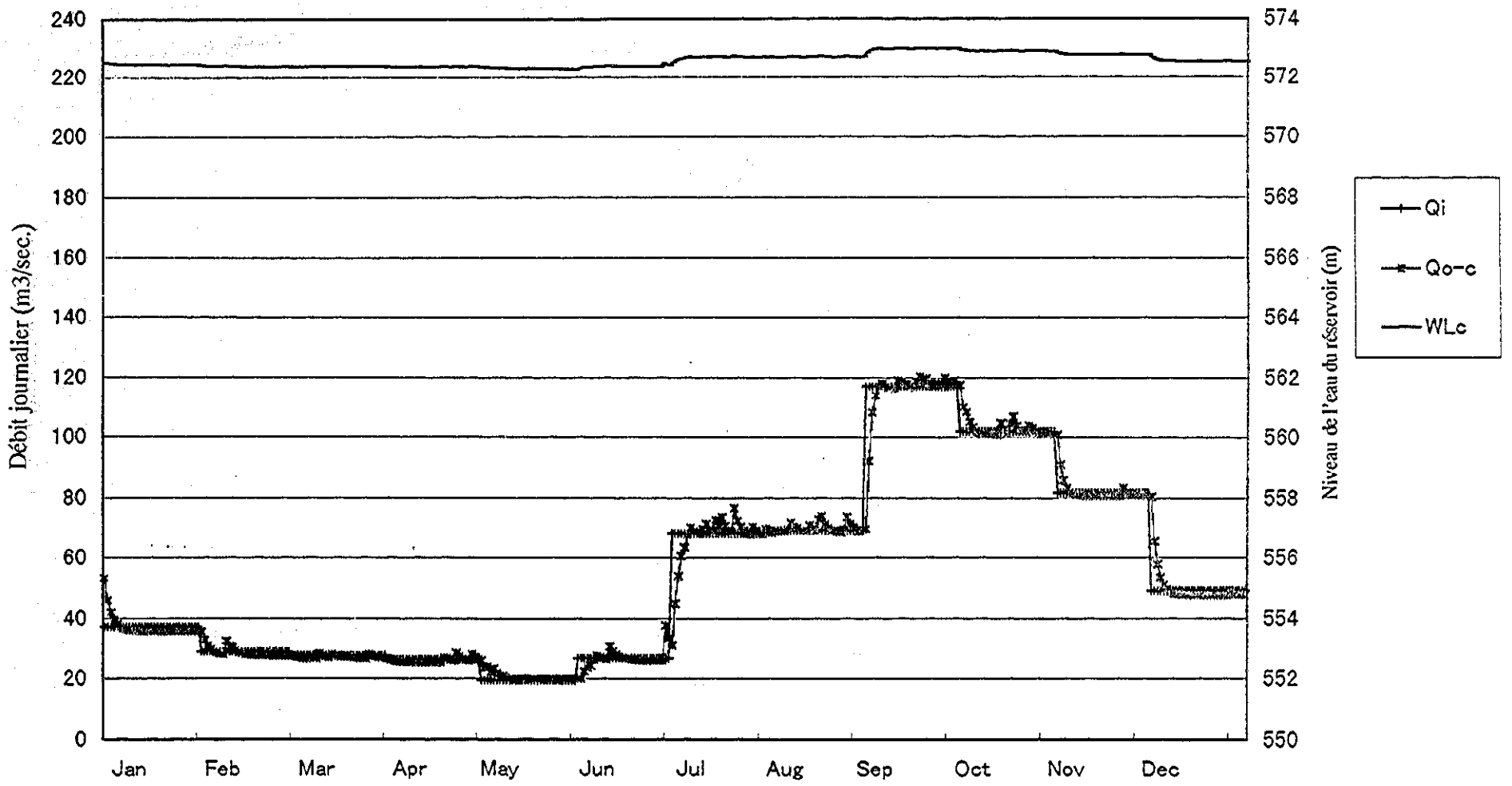
Bilan hydrologique du barrage de BOALI(1974)



Bilan hydrologique du barrage de BOALI(1975)



Bilan hydrologique du barrage de BOALI(1976)



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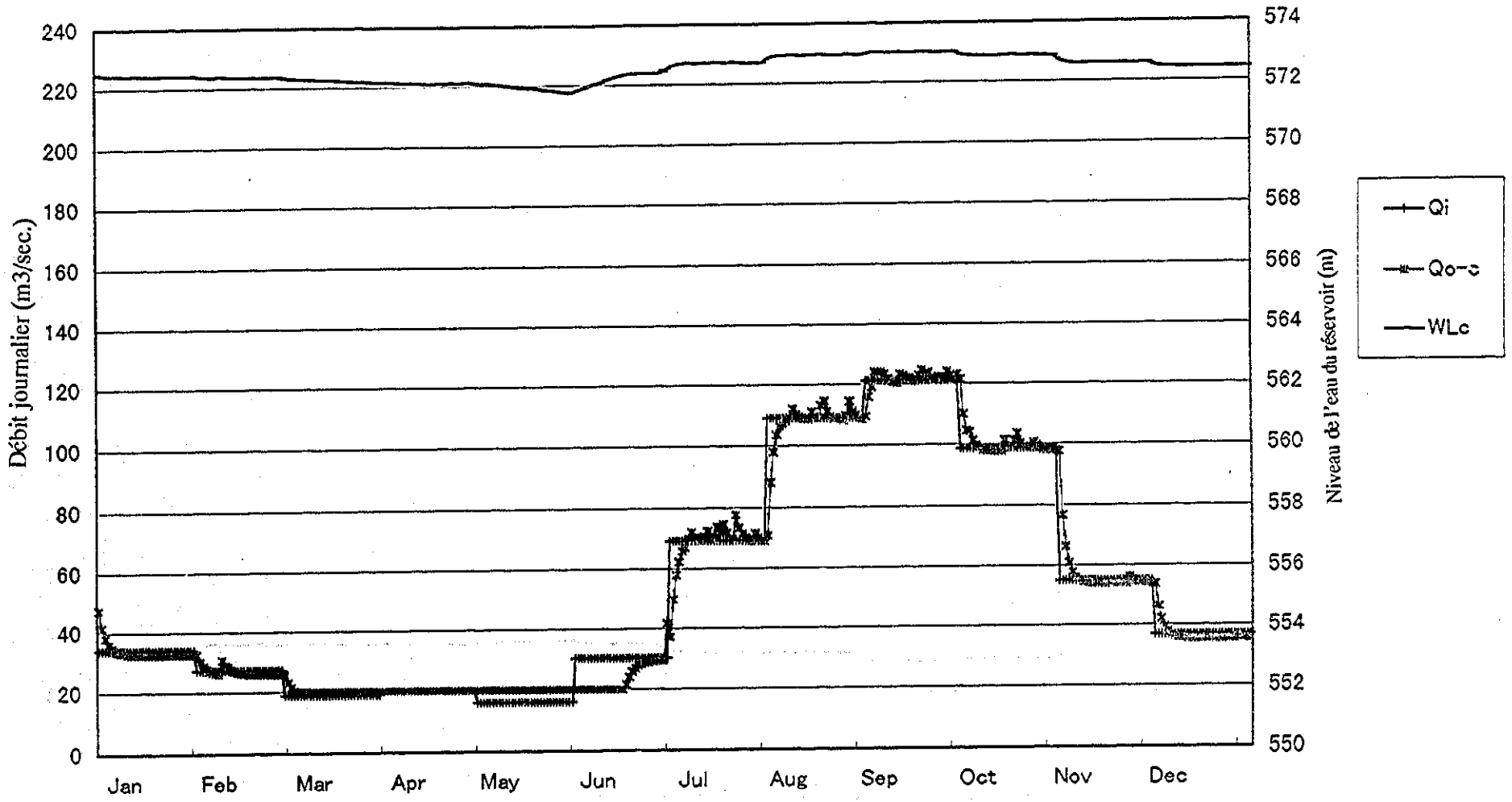
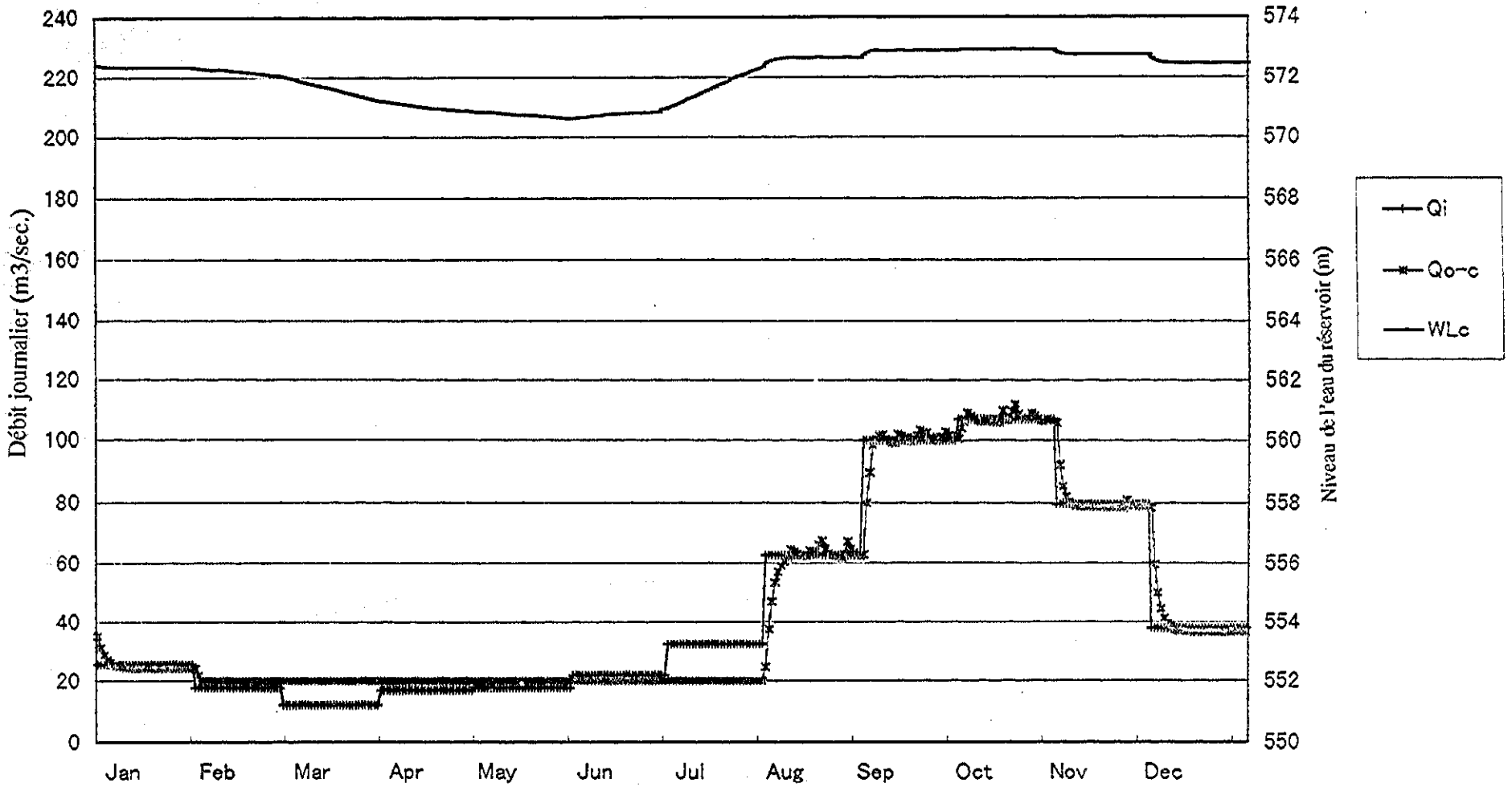
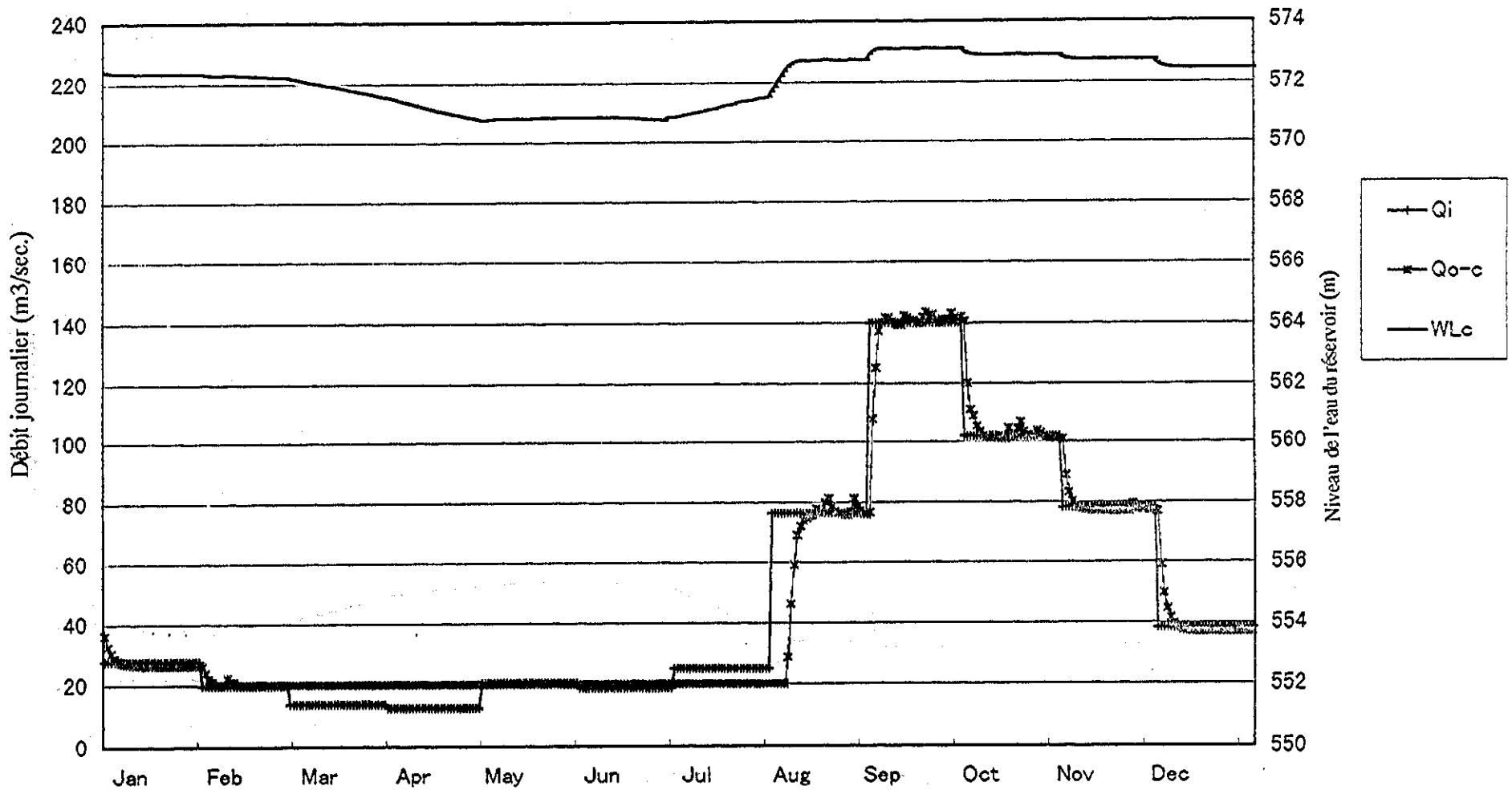


Bilan hydrologique du barrage de BOALI(1978)



Bilan hydrologique du barrage de BOALI(1979)



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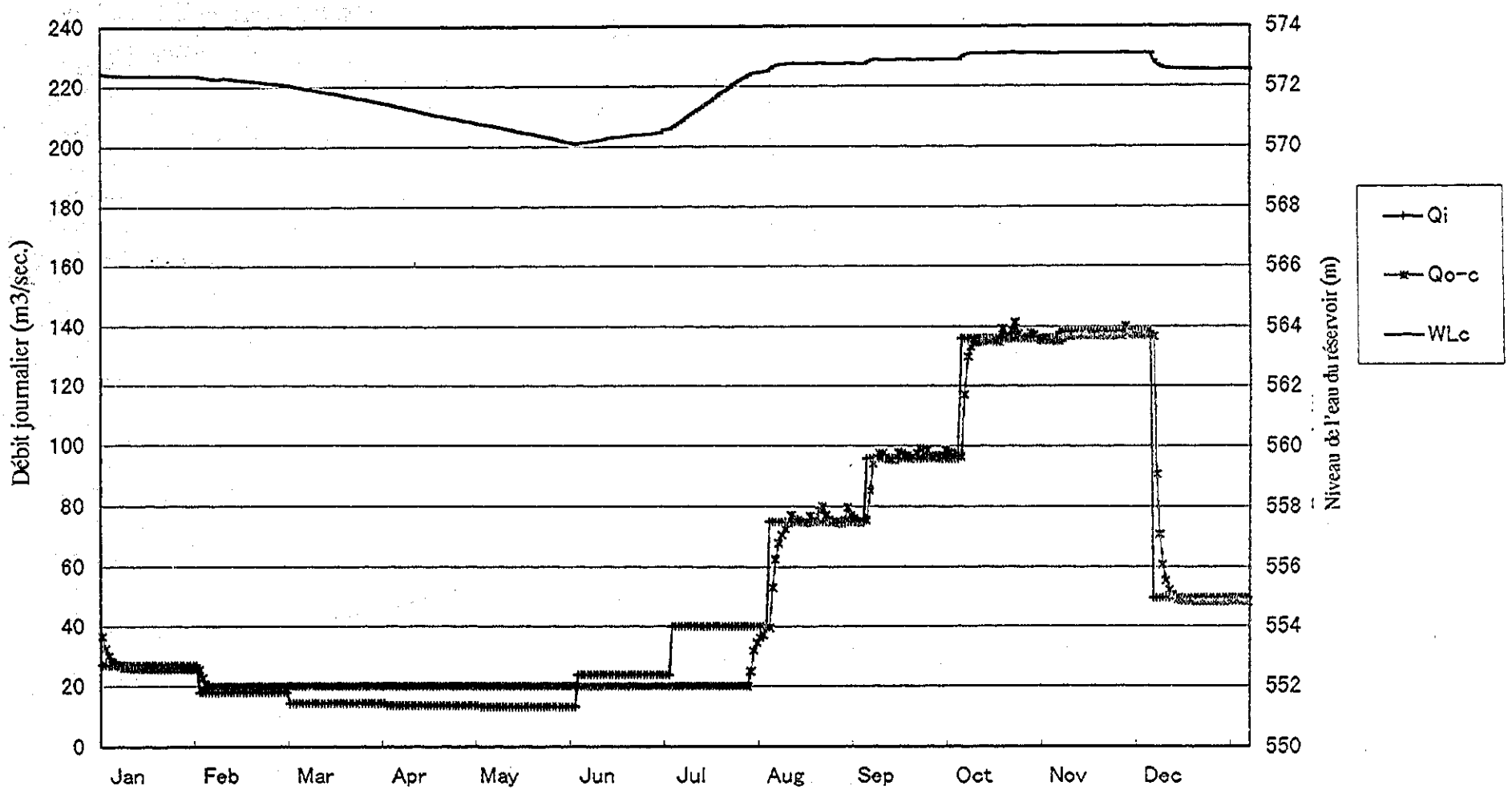
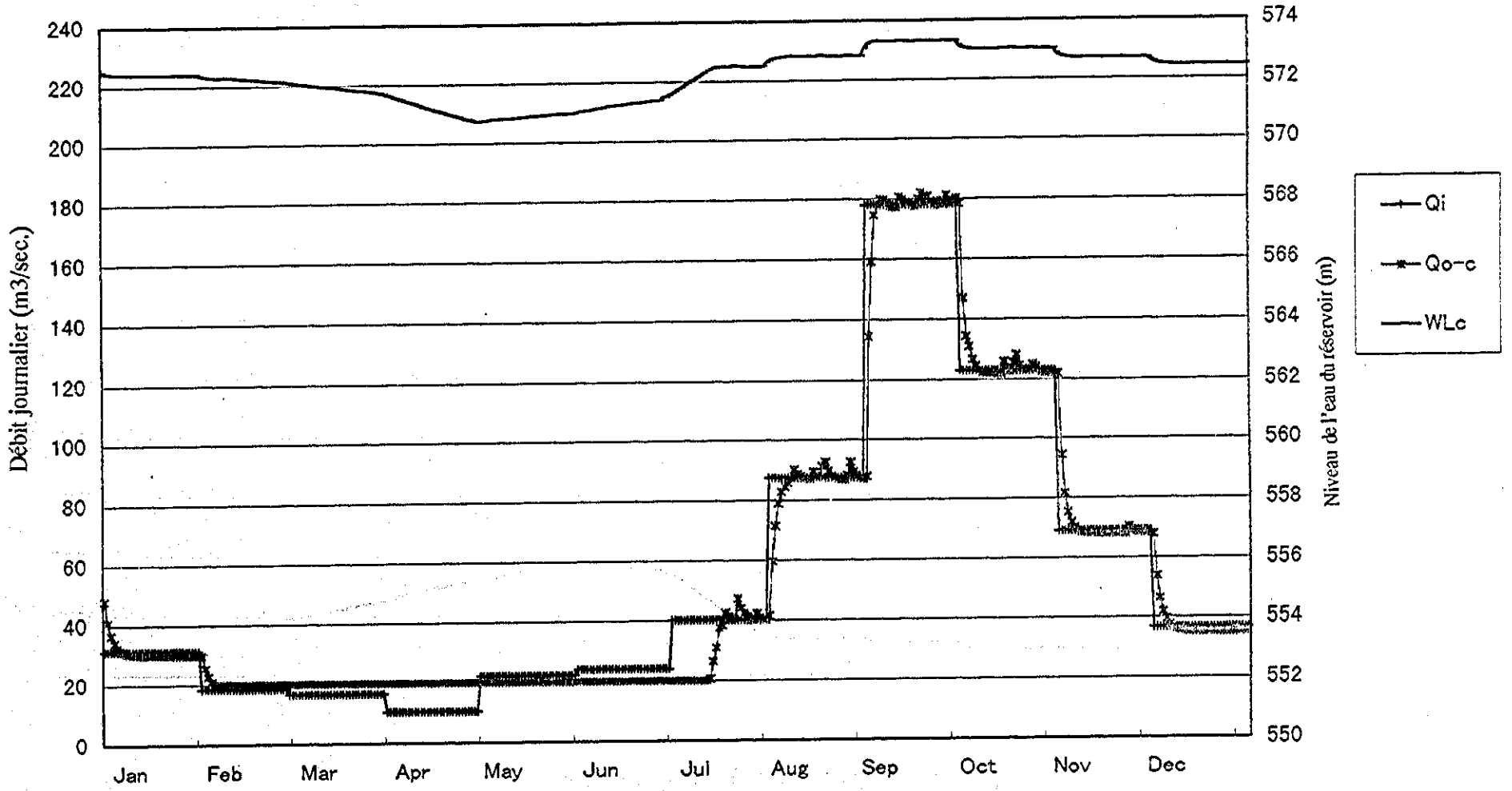
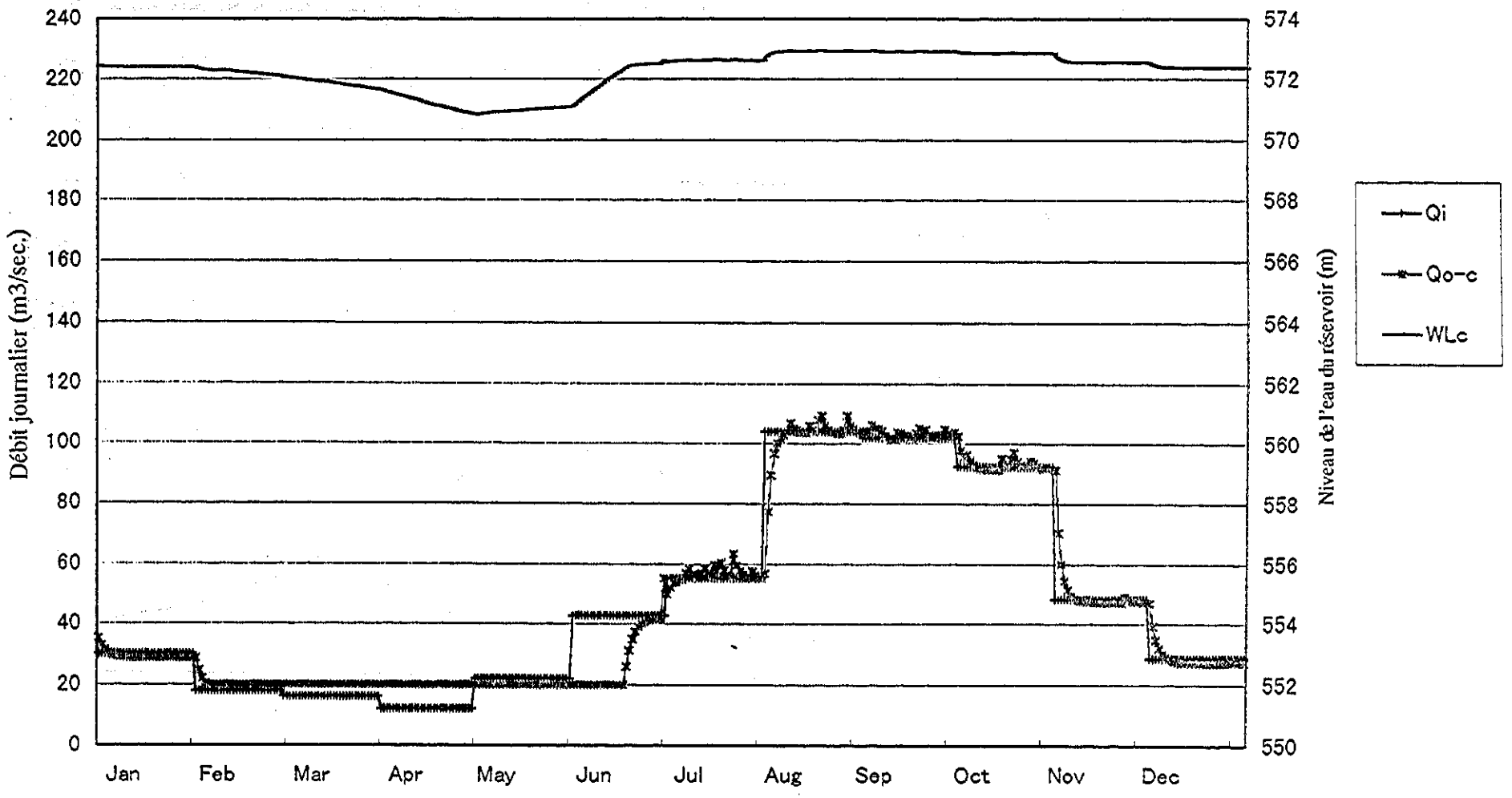


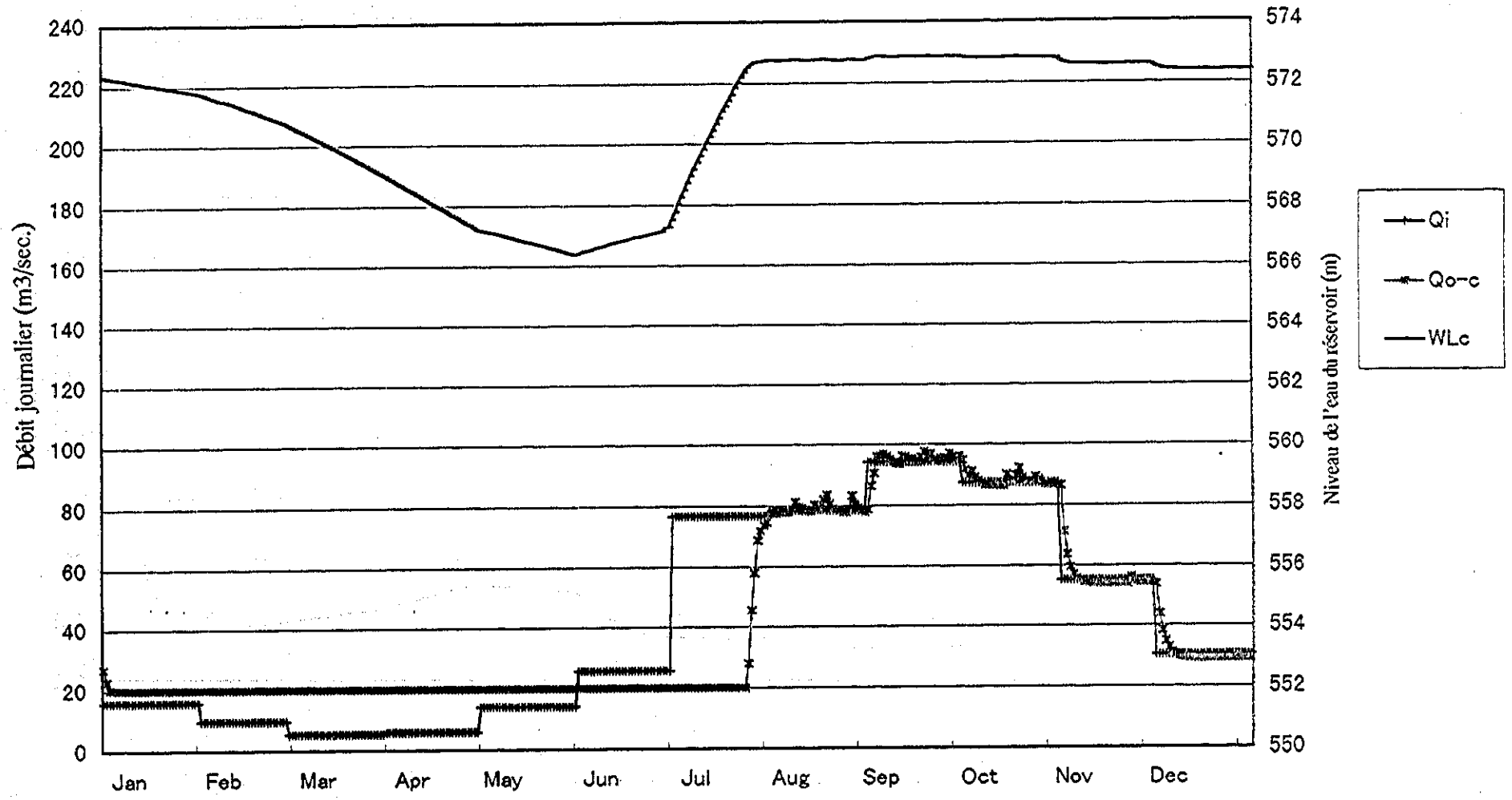
Bilan hydrologique du barrage de BOALI(1981)



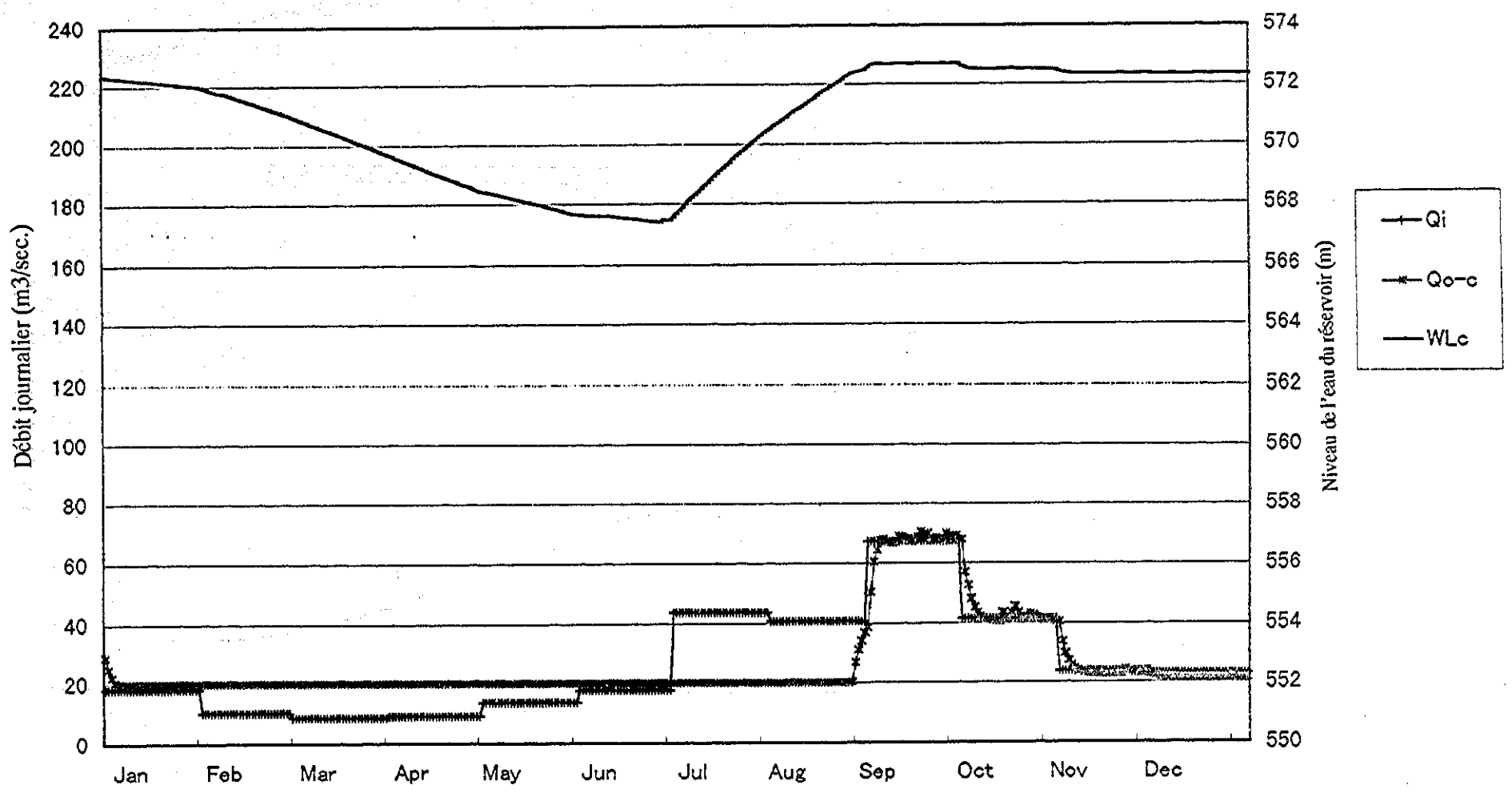
Bilan hydrologique du barrage de BOALI(1982)



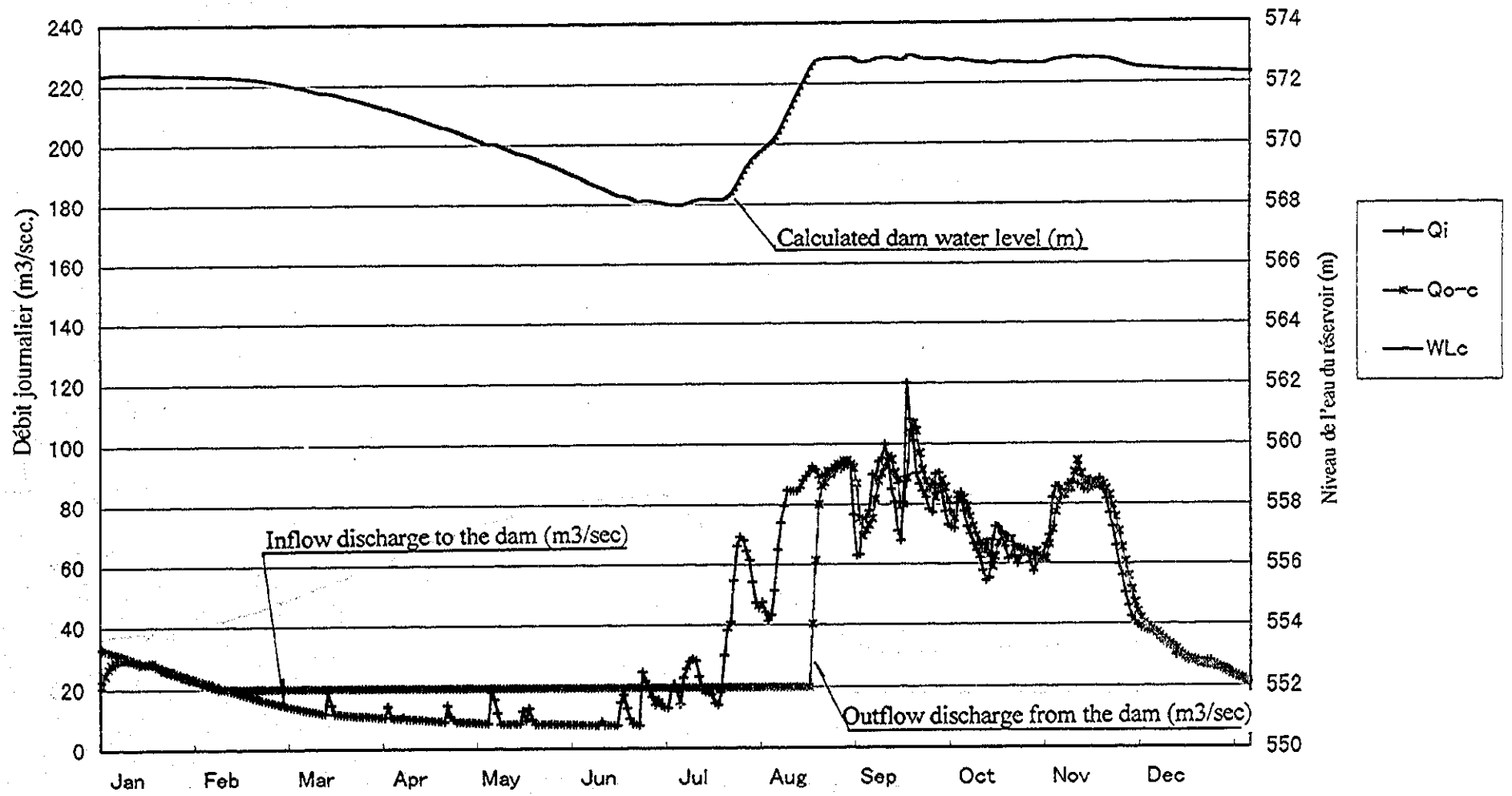
Bilan hydrologique du barrage de BOALI(1983)



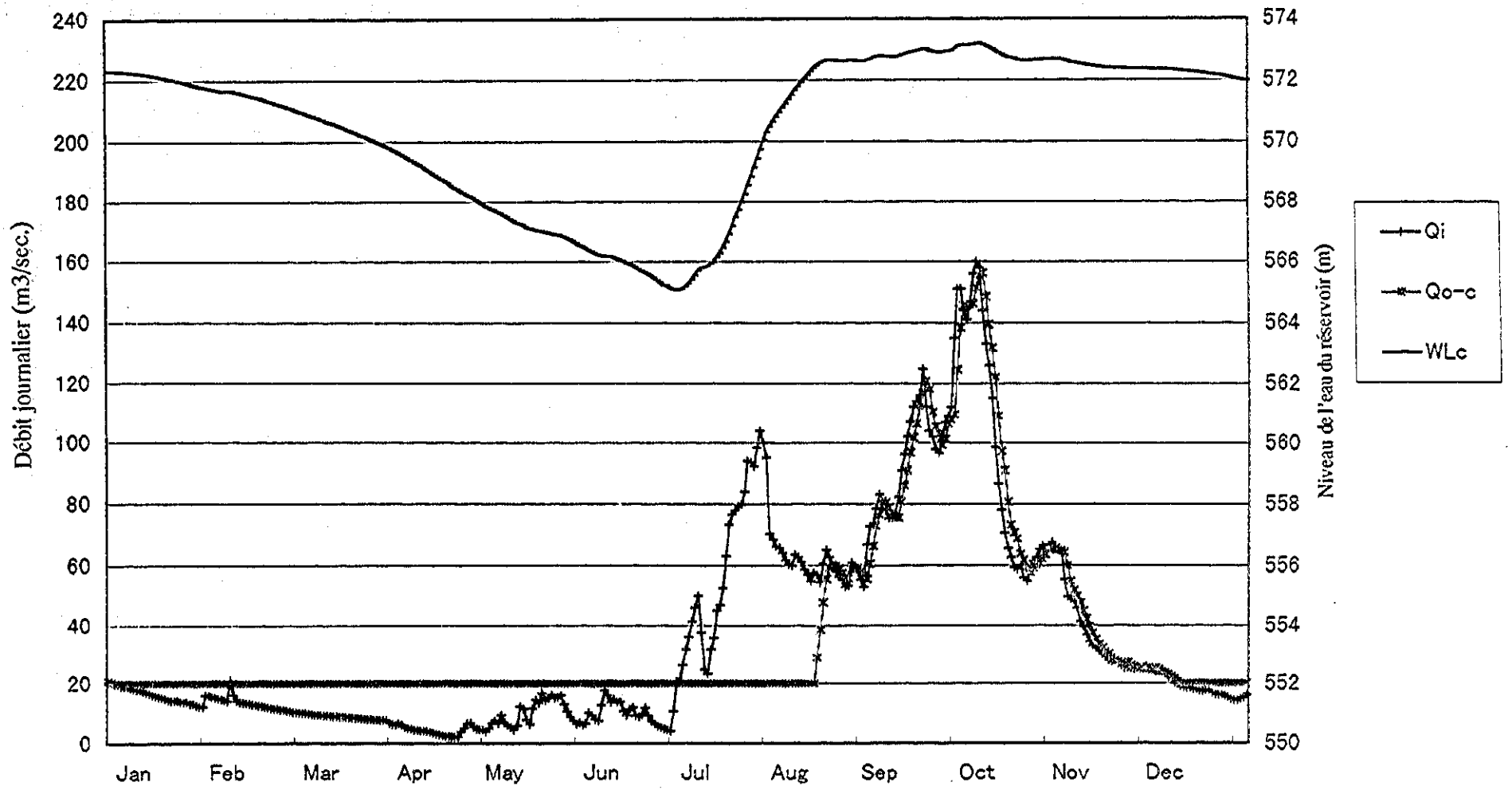
Bilan hydrologique du barrage de BOALI(1984)



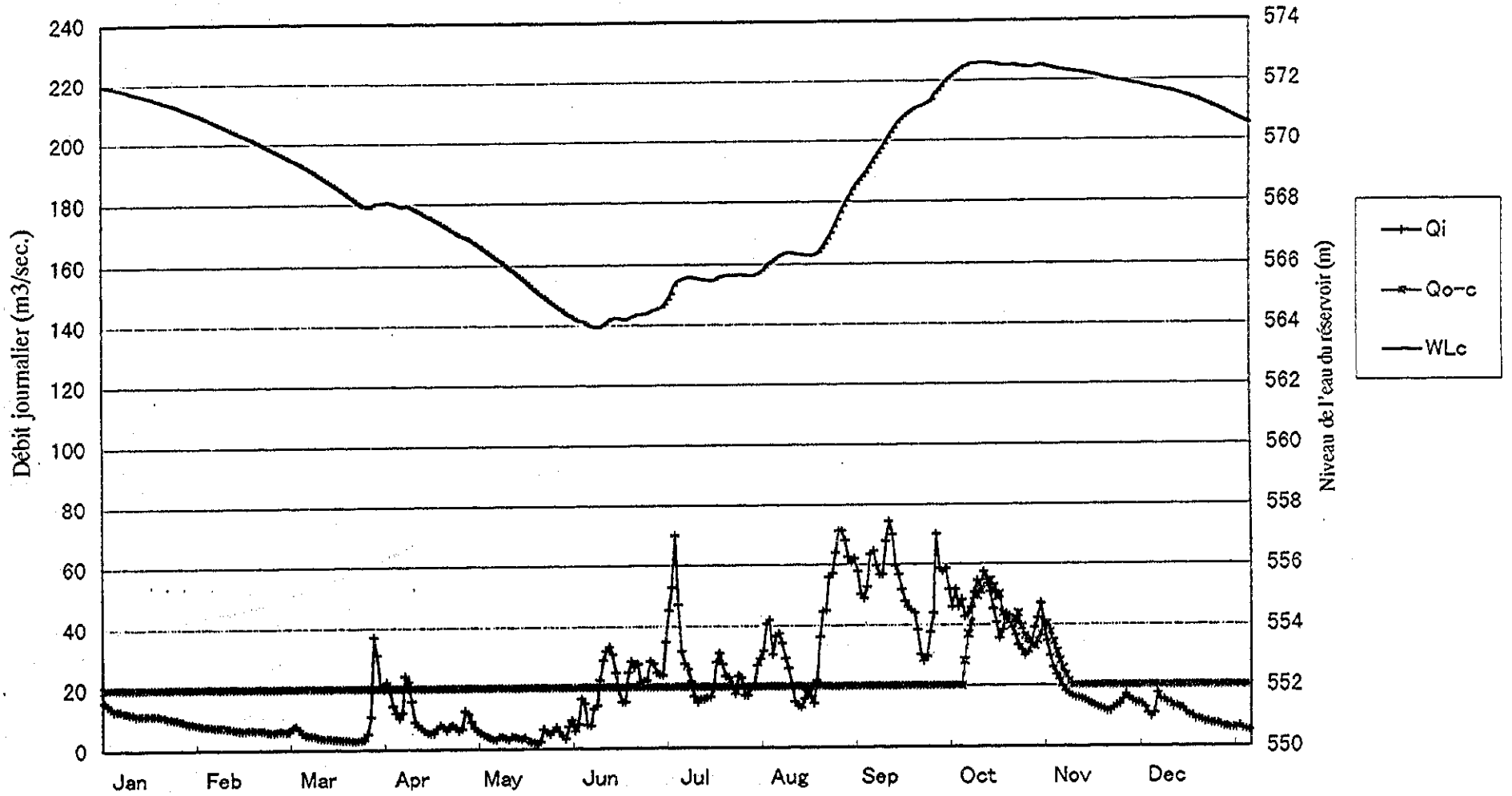
Bilan hydrologique du barrage de BOALI(1985)



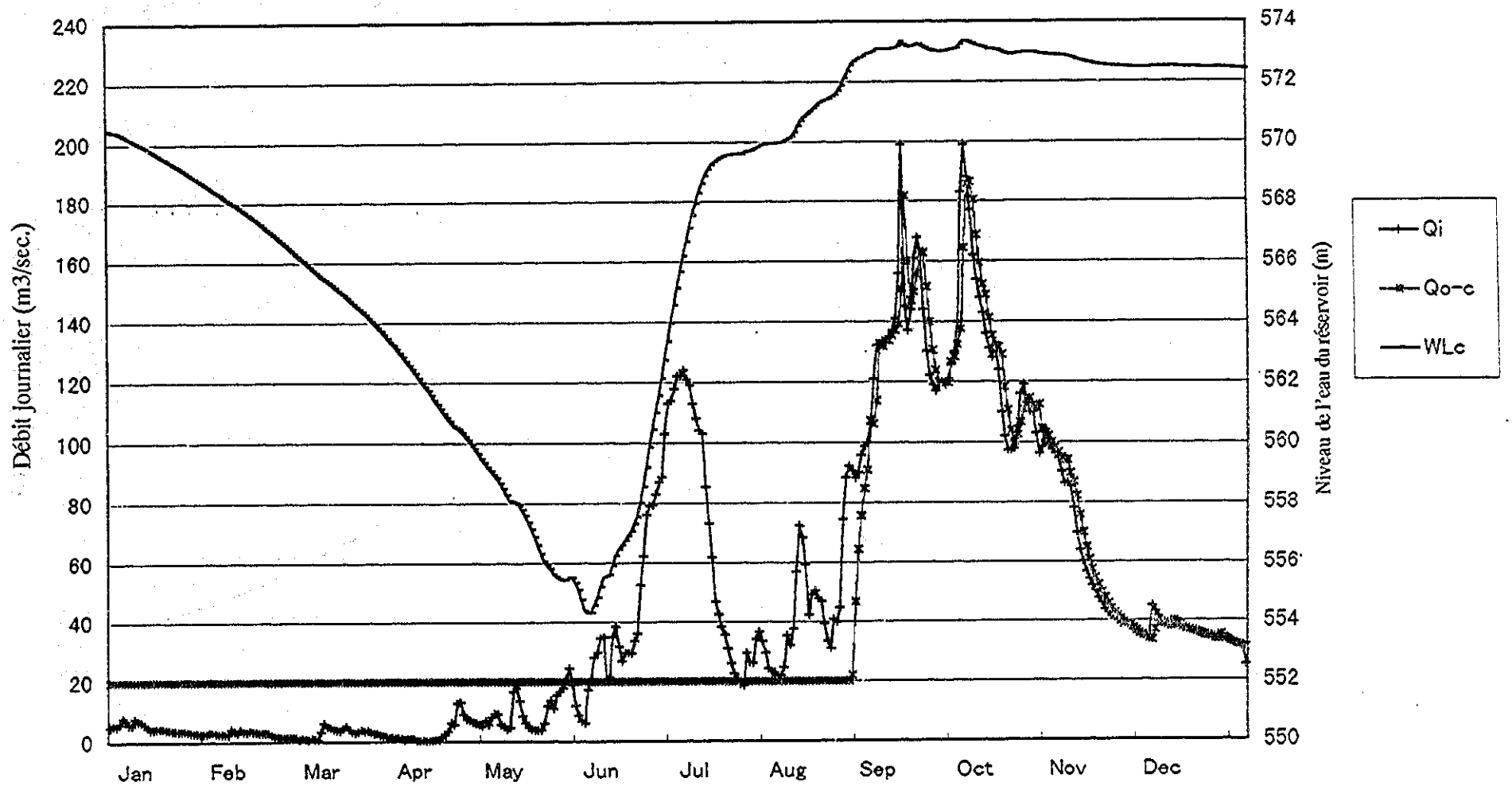
Bilan hydrologique du barrage de BOALI(1986)



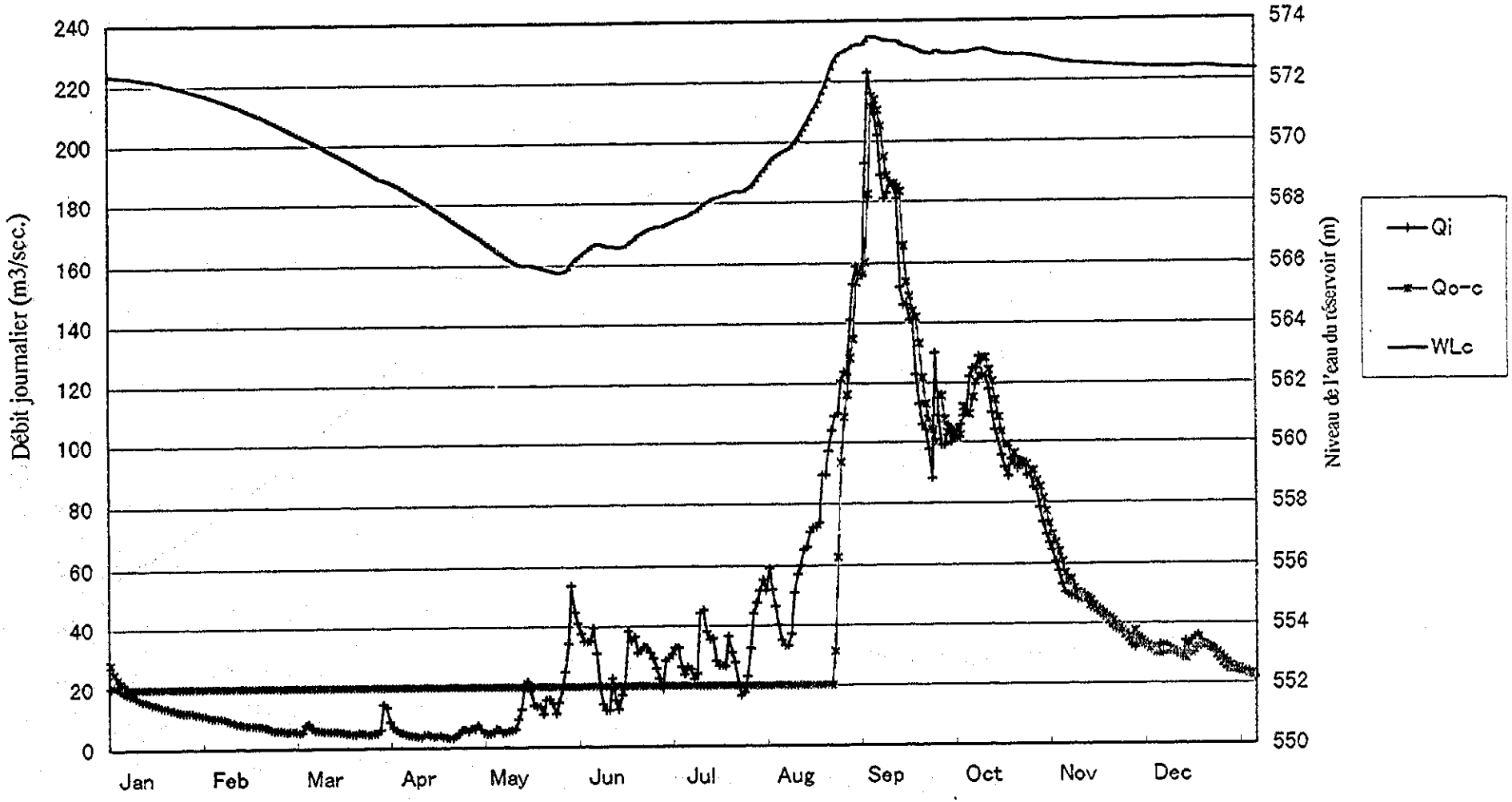
Bilan hydrologique du barrage de BOALI(1987)



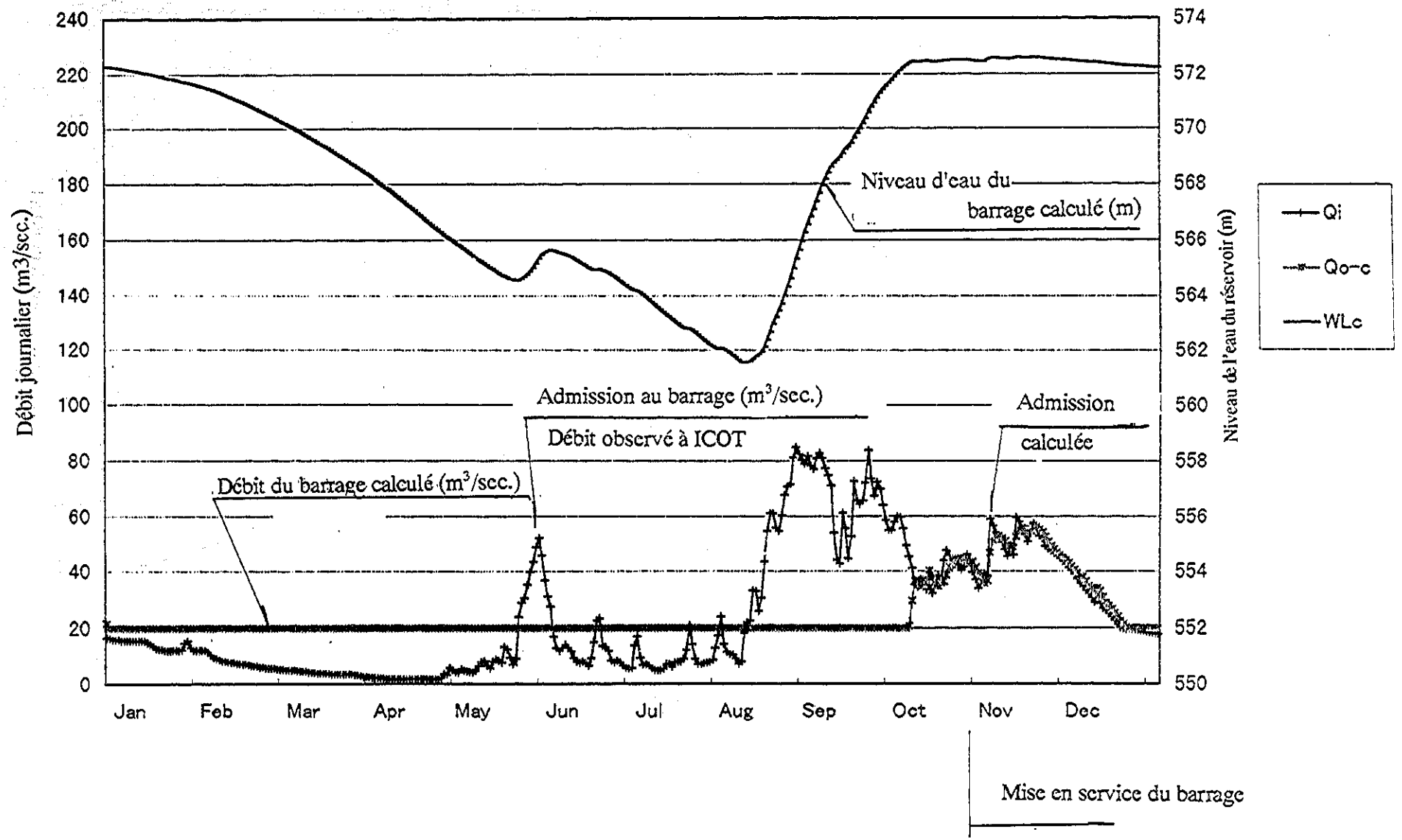
Bilan hydrologique du barrage de BOALI(1988)



Bilan hydrologique du barrage de BOALI(1989)



Bilan hydrologique du barrage de BOALI(1990)



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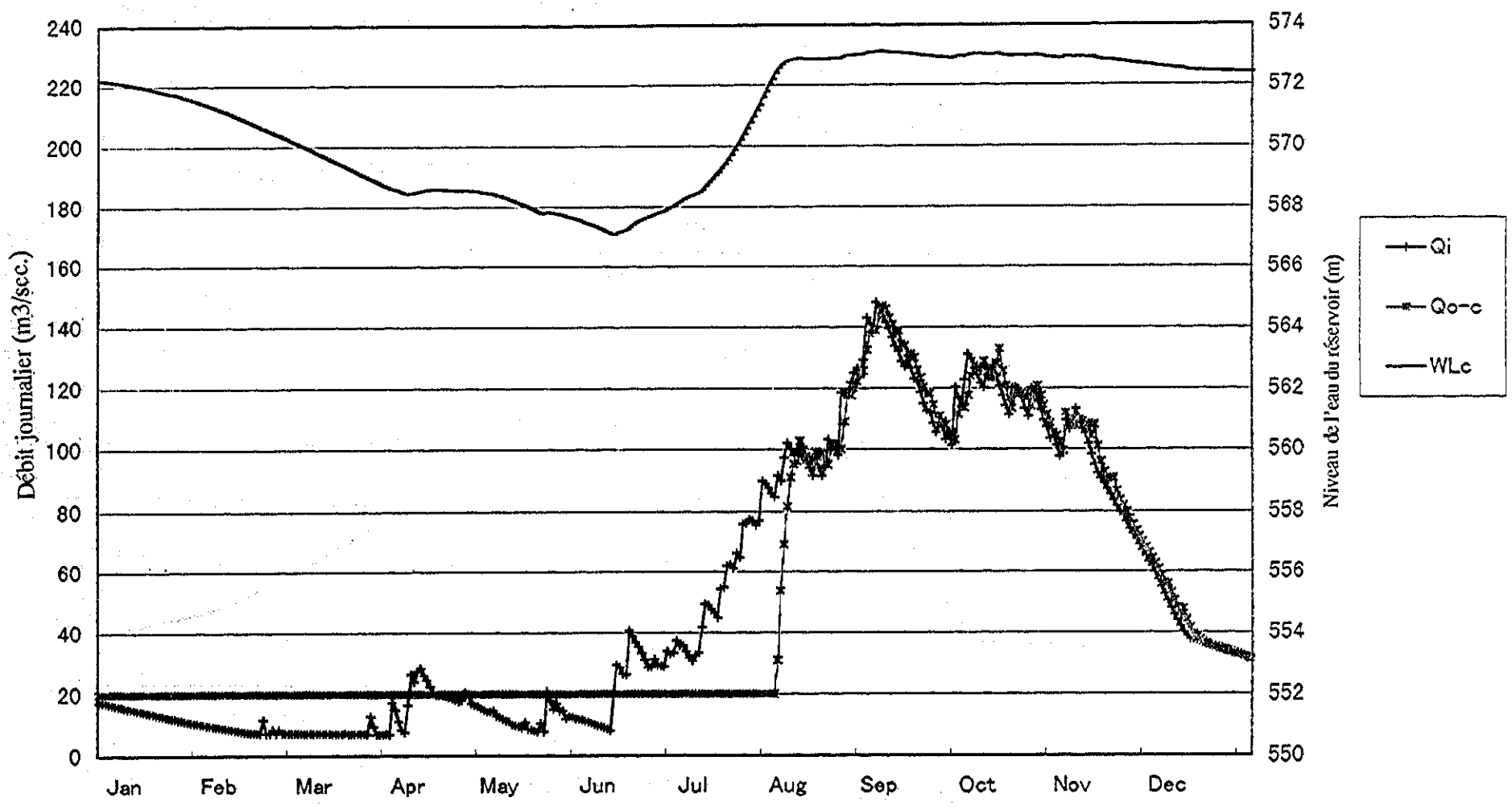
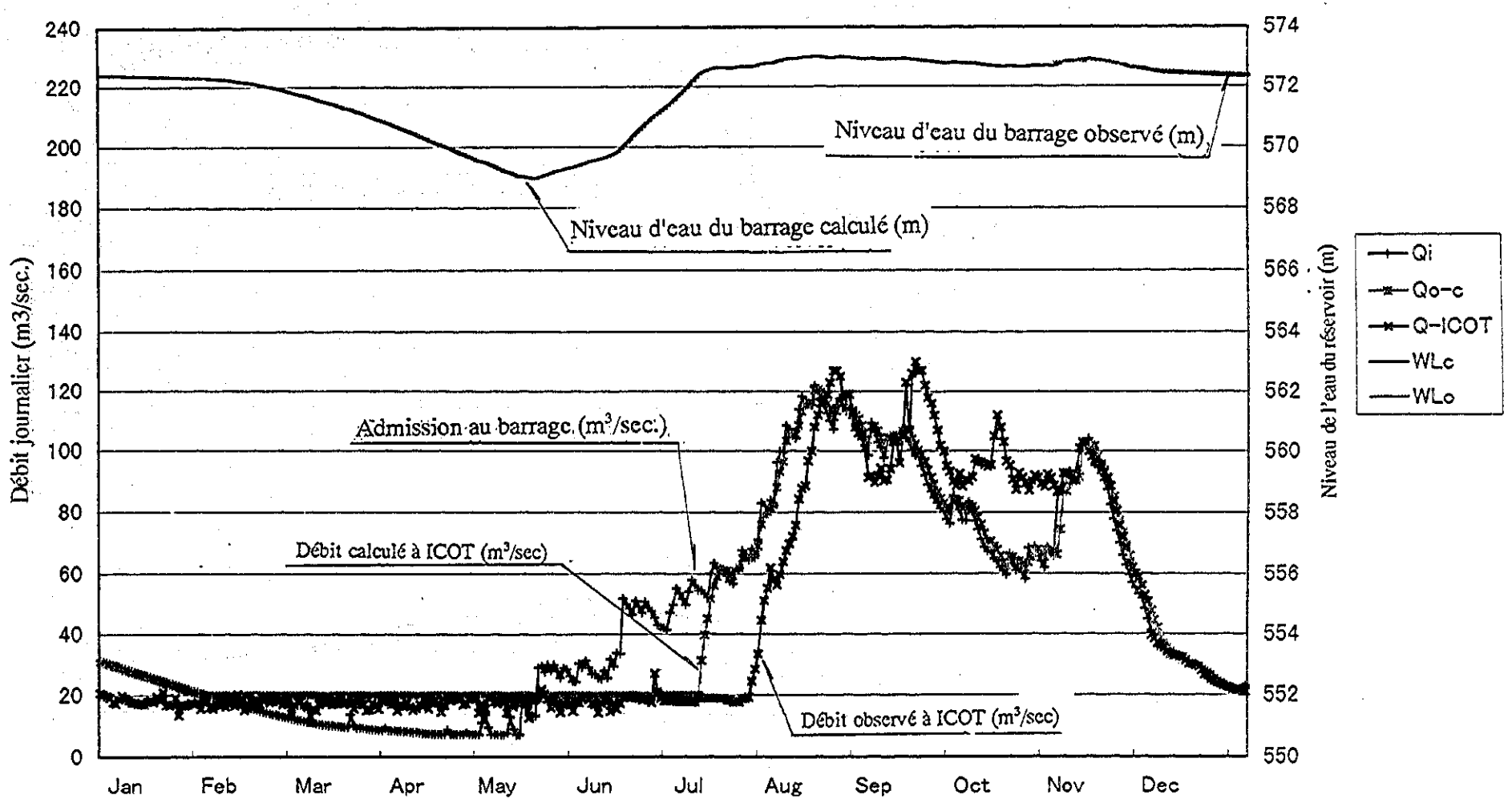
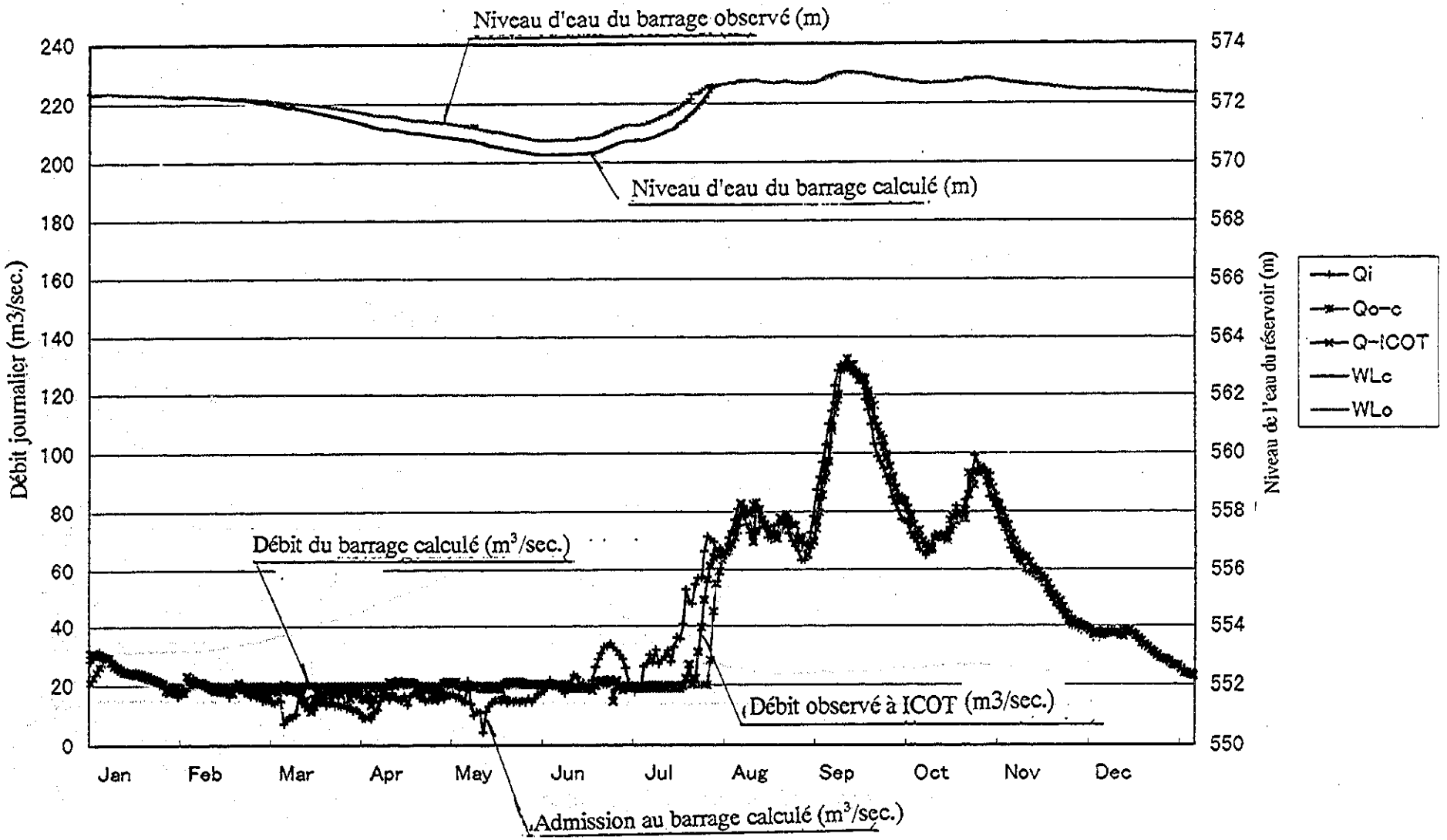


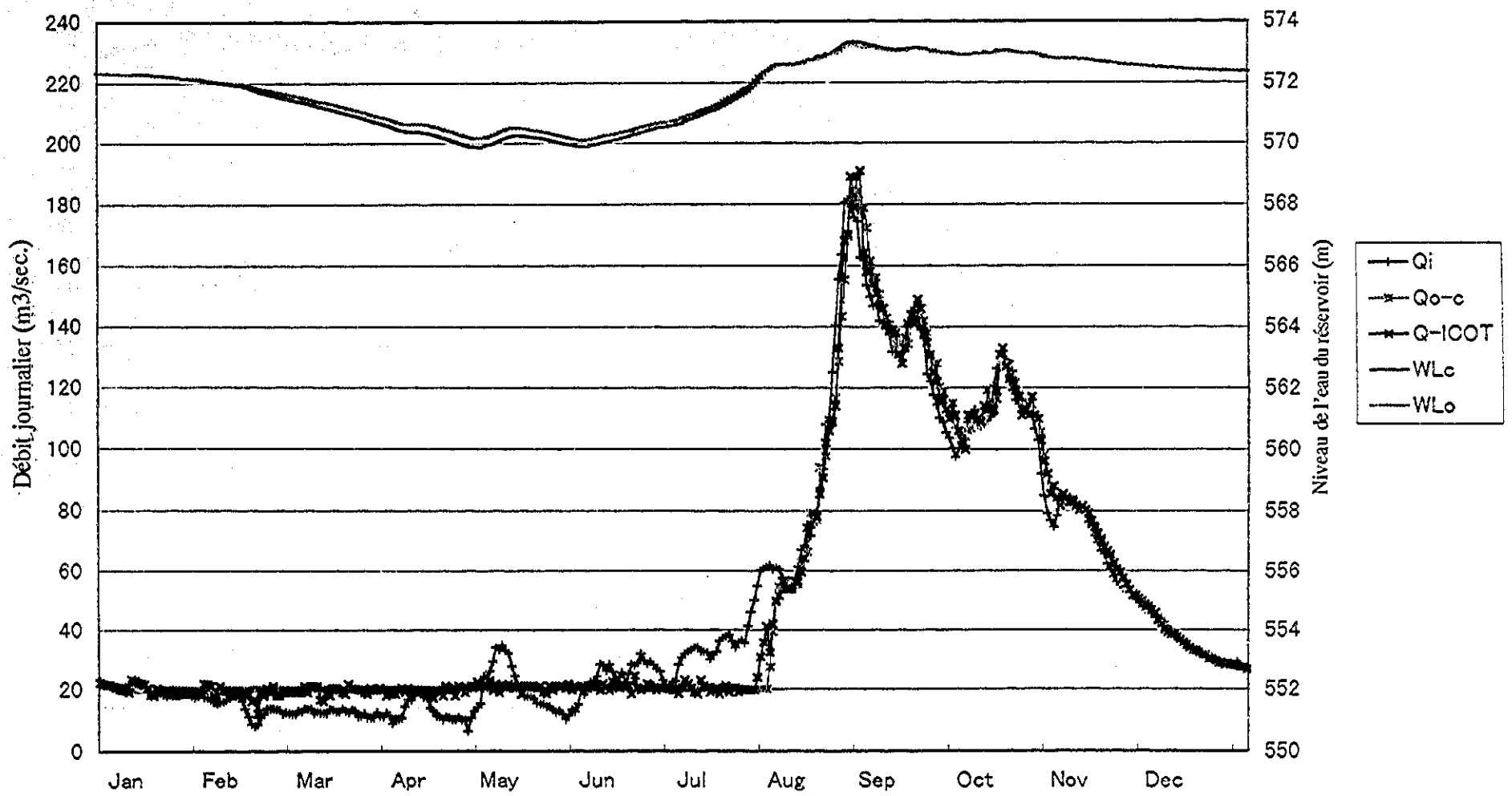
Bilan hydrologique du barrage de BOALI(1992)



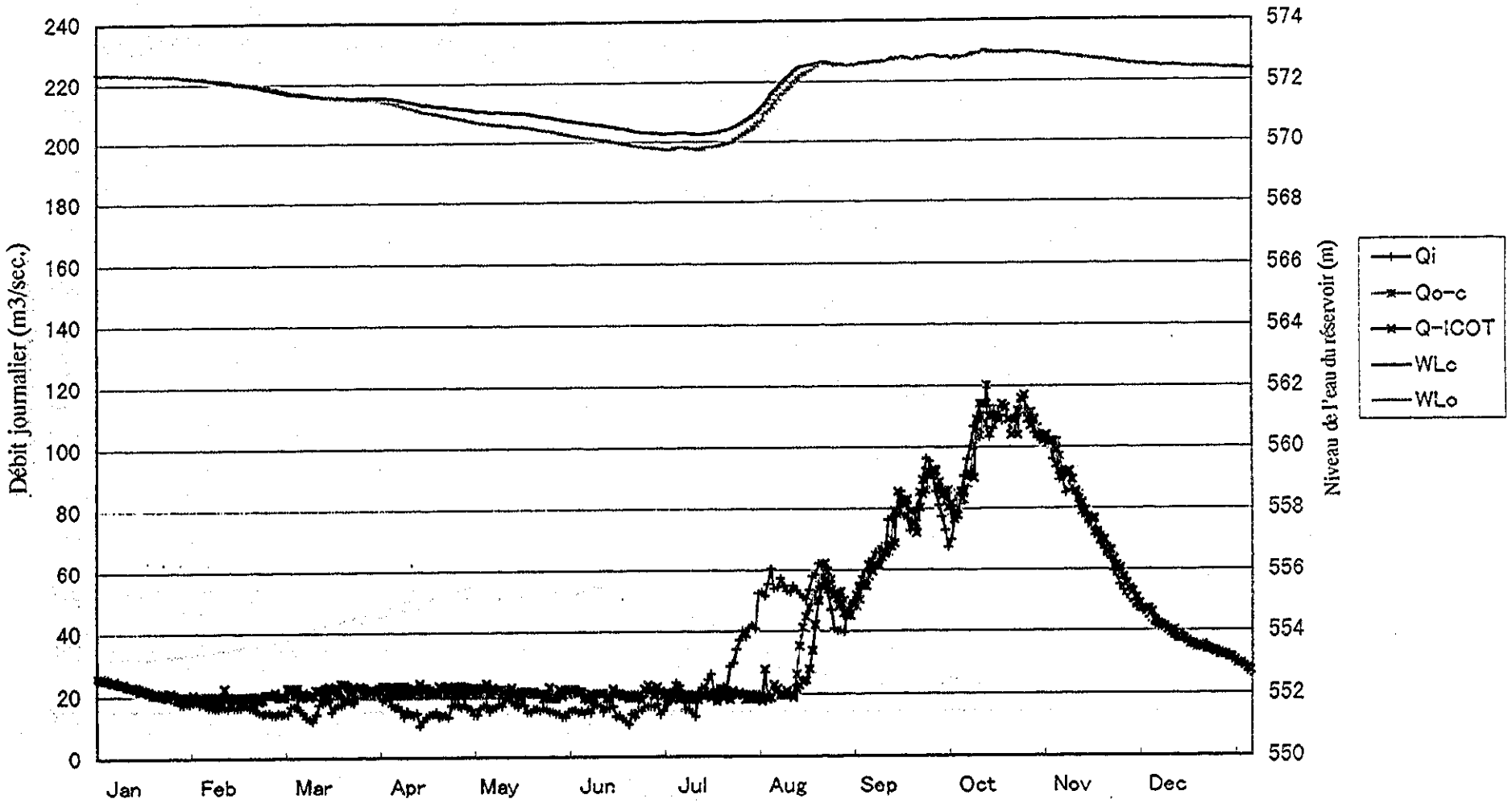
Bilan hydrologique du barrage de BOALI(1993)



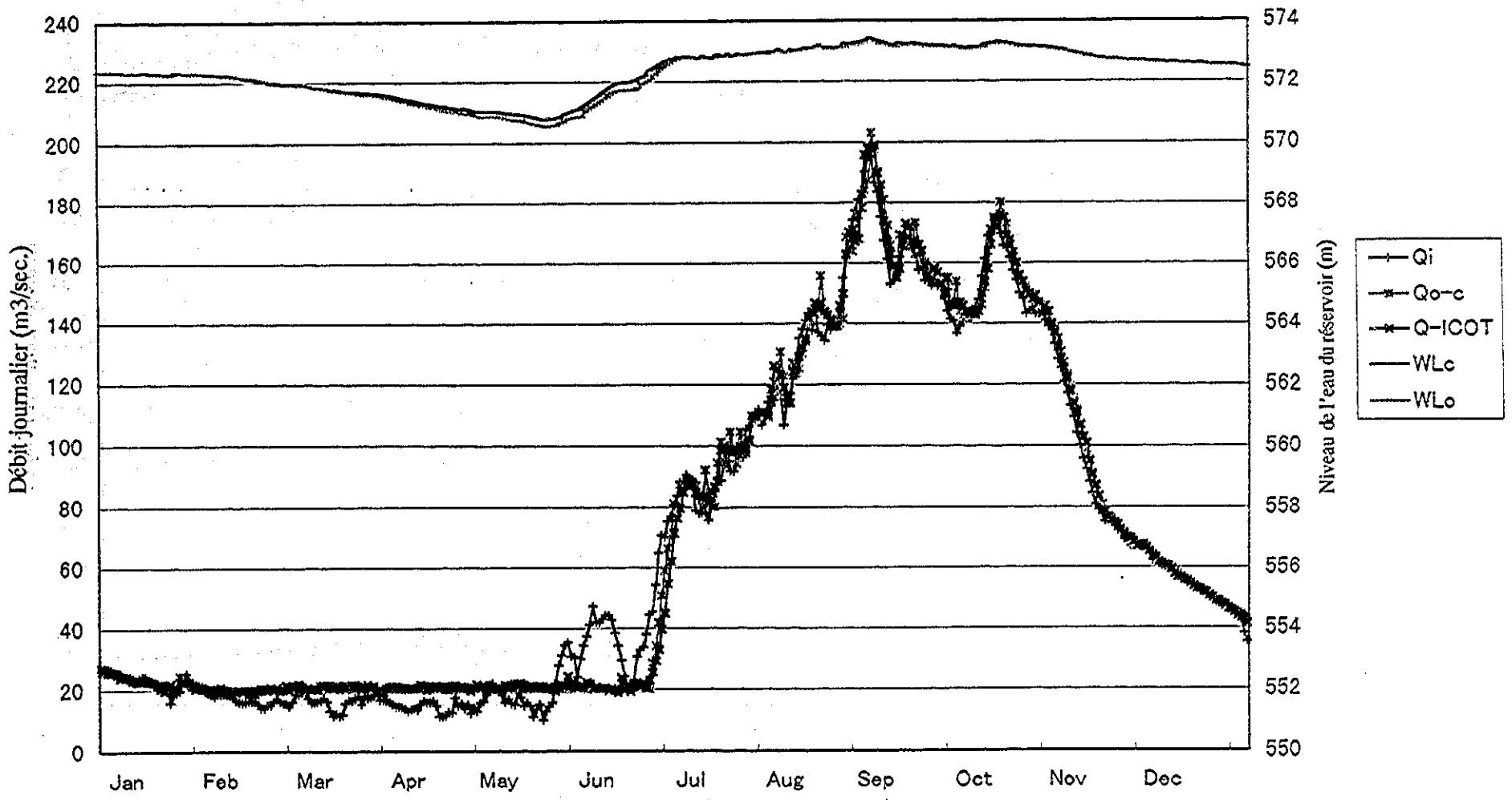
Bilan hydrologique du barrage de BOALI(1994)



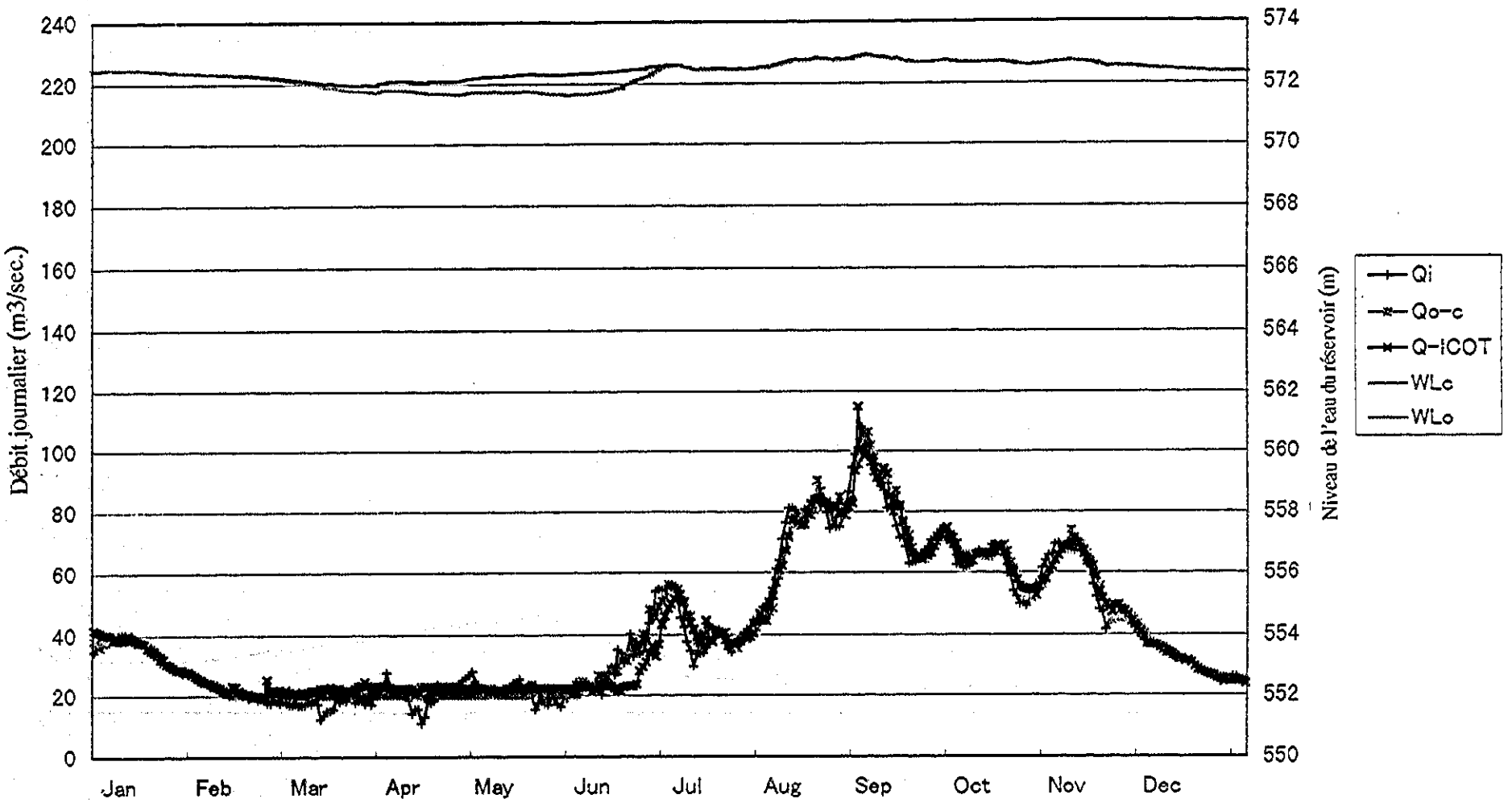
Bilan hydrologique du barrage de BOALI(1995)



Bilan hydrologique du barrage de BOALI(1996)



Bilan hydrologique du barrage de BOALI(1997)



Bilan hydrologique du barrage de BOALI(1998)