

# DATA DEBIT SEDIMENT MELAYANG

**Ciseel - Binangun**

**No. 2-112- 2-20**

**Tahun 2022**

Induk Sungai : Citanduy  
 Data Geografi : 07'20'57" \_\_ 108'17'41" \_\_  
 Lokasi : Dari Kota Banjar menuju jurusan Pamarican +/- 6 km dengan jalan alternatif  
 tepatnya di kampung Binangun di jembatan Sungai Ciseel, tepatnya sebelah kiri  
 hulu jembatan +/- 50 m

Luas Daerah Pengaliran : 32455.0 Ha ELEVASI PDA : ( Nol.SG )

## Keterangan mengenai Pos Pengukuran Sedimen Melayang

Didirikan : Tanggal 12-06-2002 oleh PIPW Citanduy  
 Periode Pencatatan : Tanggal 01-01-2022 sampai dengan 30-11-2022  
 Jenis Alat yang digunakan : DH - 48 Ukuran Nozle :

Penentuan Besarnya Sedimen : Besarnya aliran sediment layang, ditentukan berdasarkan Persamaan,  $Q_{sed} = 181.5 \cdot (H_{56})^{0.324}$ ,  
 yang dibuat menurut data pengukuran sedimen tahun 2022.

Catatan :

Pelaksana : Unit Hidrologi Balai Besar Wilayah Sungai Citanduy

**Tabel Besarnya Debit Sedimen Melayang (ton/hari)**

| Tanggal                   | Jan      | Peb    | Mar      | Apr    | Mei      | Jun    | Jul    | Ags    | Sep    | Okt    | Nop    | Des    |
|---------------------------|----------|--------|----------|--------|----------|--------|--------|--------|--------|--------|--------|--------|
| 1                         | 2,226    | 13,432 | 2,004    | 8,458  | 1,753    | 1,919  | 1,060  | 218    | 110    | 579    | 2,750  | 3,057  |
| 2                         | 654      | 6,482  | 1,193    | 3,110  | 4,009    | 1,193  | 935    | 174    | 99     | 379    | 1,835  | 2,851  |
| 3                         | 761      | 7,011  | 905      | 3,325  | 5,011    | 1,368  | 875    | 160    | 89     | 3,949  | 2,602  | 2,700  |
| 4                         | 399      | 4,880  | 2,271    | 5,211  | 2,226    | 1,332  | 1,193  | 134    | 89     | 7,880  | 1,961  | 2,092  |
| 5                         | 218      | 7,400  | 2,902    | 2,505  | 3,270    | 875    | 817    | 134    | 79     | 4,560  | 1,633  | 2,180  |
| 6                         | 485      | 5,901  | 2,180    | 3,546  | 1,555    | 654    | 761    | 188    | 79     | 3,005  | 3,832  | 6,482  |
| 7                         | 267      | 5,414  | 2,750    | 2,048  | 2,505    | 817    | 3,659  | 147    | 79     | 2,902  | 2,048  | 3,832  |
| 8                         | 420      | 3,270  | 1,633    | 4,250  | 2,048    | 2,048  | 1,753  | 134    | 60     | 2,410  | 1,961  | 4,880  |
| 9                         | 1,159    | 2,048  | 1,332    | 2,902  | 2,410    | 966    | 680    | 110    | 60     | 5,973  | 2,458  | 4,560  |
| 10                        | 603      | 18,711 | 1,753    | 2,651  | 1,555    | 15,248 | 654    | 250    | 60     | 30,566 | 9,054  | 6,858  |
| 11                        | 733      | 4,009  | 1,919    | 3,891  | 1,126    | 2,410  | 555    | 174    | 1,405  | 8,208  | 6,335  | 3,110  |
| 12                        | 2,553    | 6,557  | 2,800    | 1,753  | 1,753    | 1,028  | 420    | 1,332  | 761    | 4,751  | 36,901 | 2,180  |
| 13                        | 2,700    | 6,335  | 3,717    | 1,227  | 1,633    | 997    | 441    | 1,297  | 3,546  | 2,750  | 8,208  | 1,442  |
| 14                        | 2,271    | 10,028 | 3,832    | 1,126  | 1,193    | 1,060  | 654    | 13,328 | 8,626  | 2,700  | 4,250  | 3,832  |
| 15                        | 4,311    | 3,270  | 9,141    | 1,193  | 1,193    | 1,262  | 1,368  | 3,546  | 2,048  | 20,564 | 10,394 | 2,505  |
| 16                        | 5,551    | 3,005  | 3,435    | 1,753  | 817      | 875    | 5,211  | 3,832  | 875    | 9,054  | 8,208  | 3,057  |
| 17                        | 2,317    | 2,953  | 1,753    | 1,193  | 680      | 441    | 18,111 | 1,961  | 875    | 4,751  | 7,799  | 3,949  |
| 18                        | 1,093    | 4,435  | 5,211    | 761    | 399      | 1,555  | 3,832  | 2,226  | 3,717  | 3,490  | 7,011  | 2,651  |
| 19                        | 3,005    | 2,553  | 2,800    | 3,057  | 579      | 817    | 1,961  | 1,193  | 2,602  | 3,110  | 12,313 | 3,949  |
| 20                        | 4,128    | 10,860 | 1,262    | 1,633  | 340      | 1,479  | 1,060  | 603    | 1,159  | 2,505  | 5,078  | 2,410  |
| 21                        | 2,851    | 5,901  | 875      | 24,101 | 1,093    | 11,144 | 603    | 680    | 603    | 1,961  | 13,328 | 1,555  |
| 22                        | 2,602    | 2,180  | 680      | 4,751  | 1,028    | 4,435  | 603    | 603    | 5,414  | 1,835  | 5,211  | 1,060  |
| 23                        | 1,835    | 3,774  | 4,560    | 5,414  | 2,700    | 1,919  | 555    | 531    | 2,271  | 1,262  | 3,603  | 2,505  |
| 24                        | 1,126    | 2,048  | 14,487   | 3,270  | 1,028    | 1,555  | 441    | 340    | 11,722 | 5,831  | 2,700  | 1,794  |
| 25                        | 935      | 1,517  | 13,432   | 8,458  | 420      | 1,961  | 817    | 250    | 4,128  | 13,122 | 2,410  | 2,048  |
| 26                        | 3,717    | 2,505  | 12,413   | 3,546  | 22,761   | 2,271  | 654    | 218    | 5,078  | 4,250  | 16,366 | 3,379  |
| 27                        | 4,250    | 5,620  | 4,435    | 5,078  | 4,623    | 8,711  | 654    | 188    | 2,902  | 3,163  | 14,920 | 3,005  |
| 28                        | 4,189    | 4,311  | 7,639    | 5,901  | 2,505    | 5,690  | 399    | 174    | 1,368  | 72,730 | 6,934  | 1,794  |
| 29                        | 4,009    |        | 3,546    | 4,751  | 7,243    | 5,551  | 302    | 147    | 1,753  | 10,487 | 9,054  | 1,262  |
| 30                        | 3,270    |        | 3,379    | 3,270  | 2,410    | 2,317  | 267    | 147    | 905    | 5,078  | 5,760  | 905    |
| 31                        | 5,972.66 |        | 3,162.97 |        | 1,261.77 |        | 234.07 | 122.03 |        | 3,435  |        | 628    |
| Rata-rata                 | 2278     | 5586   | 3981     | 4138   | 2682     | 2797   | 1662   | 1114   | 2085   | 7975   | 7231   | 2855   |
| Jumlah (ton/bln)          | 70611    | 156412 | 123401   | 124131 | 83129    | 83900  | 51532  | 34544  | 62562  | 247239 | 216917 | 88515  |
| Tebal Erosi (t/bl/m2)     | 0.0002   | 0.0005 | 0.0004   | 0.0004 | 0.0003   | 0.0003 | 0.0002 | 0.0001 | 0.0002 | 0.0008 | 0.0007 | 0.0003 |
| Erosi yg terjadi (m/thn)  | 0.0004   | 0.0008 | 0.0006   | 0.0006 | 0.0004   | 0.0004 | 0.0003 | 0.0002 | 0.0003 | 0.0013 | 0.0011 | 0.0005 |
| Erosi yg terjadi (mm/thn) | 0.3626   | 0.8032 | 0.6337   | 0.6375 | 0.4269   | 0.4309 | 0.2646 | 0.1774 | 0.3213 | 1.2696 | 1.1139 | 0.4546 |

## Data Tahunan:

Total Angkutan Sedimen : 1,342,891 ton/tahun  
 Tebal Erosi Permukaan : 0.004 ton/thn/m2  
 Erosi yang terjadi : 6.896 mm/thn

## Keterangan:

Berat Jenis sedimen melayang : 0.6 ton/m3