

# DATA DEBIT SEDIMENT MELAYANG

**Cikawung-Cukangleuleus**

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

**Tahun 2022**

Induk Sungai : Citanduy  
 Data Geografi : 7°21'12.45" 108°17'41"  
 Lokasi : Dari Kota Banjar menuju jurusan Purwokerto +/- 25 km dari Kota Ds. Cukangleuleus  
 belok kanan menuju jurusan Sidareja +/- 1.5 km tepatnya di Sungai Cikawung  
 sebelah hilir kanan +/- 175 m Desa Bantar  
 Luas Daerah Pengaliran : 55260.00 Ha ELEVASI PDA :+ M

## Keterangan mengenai Pos Pengukuran Sedimen Melayang

Didirikan : Tanggal 12-06-2002 oleh IPK PWS Citanduy  
 Periode Pencatatan : Tanggal 01-01-2022 sampai dengan 31-12-2022  
 Jenis Alat yang digunakan : DH - 48 Ukuran Nozle :

Penentuan Besarnya Sedimer : Besarnya aliran angkutan sedimen layanq ditentukan berdasarkan persamaan,  $Q_s = 68.36 \cdot (H904)^{0.278}$   
 menggunakan data pengukuran aliran sediment melayang 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                     | 4293.75   | 15376.13  | 4768.74   | 38534.12  | 4112.66   | 5651.54   | 4386.18   | 2131.16  | 2566.15   | 4068.17   | 2131.16   | 4386.18   |
| 2                     | 4432.88   | 19928.15  | 3723.38   | 14254.91  | 3681.65   | 3358.67   | 3850.37   | 2160.52  | 2632.58   | 7585.36   | 6694.19   | 3936.56   |
| 3                     | 3599.11   | 12905.98  | 3166.42   | 10058.79  | 7989.50   | 3128.84   | 3936.56   | 2468.53  | 2599.23   | 8765.94   | 3242.44   | 7785.74   |
| 4                     | 3280.89   | 18600.20  | 5542.64   | 10138.43  | 5761.81   | 2373.34   | 3517.78   | 3280.89  | 2566.15   | 12536.32  | 8478.22   | 5542.64   |
| 5                     | 3280.89   | 15480.78  | 4867.62   | 6633.26   | 5172.15   | 2803.50   | 2838.51   | 2803.50  | 2566.15   | 2404.81   | 7323.40   | 10461.07  |
| 6                     | 4622.86   | 12628.09  | 5488.70   | 5381.84   | 4386.18   | 2500.80   | 2873.81   | 2566.15  | 2700.12   | 2250.15   | 12173.56  | 7785.74   |
| 7                     | 4479.90   | 6694.19   | 5761.81   | 4157.46   | 5706.51   | 3204.29   | 5596.92   | 2632.58  | 2768.76   | 12536.32  | 16883.25  | 6694.19   |
| 8                     | 4719.79   | 4917.55   | 3723.38   | 5817.47   | 8266.48   | 2599.23   | 2666.21   | 2373.34  | 2945.25   | 22098.07  | 18837.26  | 10873.57  |
| 9                     | 6158.66   | 4768.74   | 3280.89   | 4479.90   | 5488.70   | 3599.11   | 2566.15   | 2436.54  | 2981.40   | 10218.48  | 10461.07  | 24134.33  |
| 10                    | 7130.81   | 37227.42  | 2945.25   | 3681.65   | 3807.73   | 2700.12   | 2016.30   | 4479.90  | 5817.47   | 16552.63  | 26882.08  | 24838.97  |
| 11                    | 13763.22  | 14254.91  | 4112.66   | 7323.40   | 3681.65   | 2500.80   | 2700.12   | 3280.89  | 10624.84  | 9666.61   | 11642.20  | 10790.25  |
| 12                    | 29030.42  | 12905.98  | 7453.64   | 6879.14   | 3893.31   | 2311.22   | 1878.43   | 3319.64  | 17218.09  | 10461.07  | 7323.40   | 6694.19   |
| 13                    | 21574.47  | 9512.55   | 18015.96  | 5706.51   | 3765.40   | 4867.62   | 2909.39   | 3091.55  | 11994.74  | 22629.79  | 9979.55   | 3765.40   |
| 14                    | 13860.67  | 17218.09  | 12905.98  | 4202.57   | 3477.56   | 3477.56   | 8912.12   | 3054.55  | 2981.40   | 27789.77  | 8693.43   | 1746.80   |
| 15                    | 9744.24   | 11296.41  | 17218.09  | 3850.37   | 3681.65   | 2838.51   | 4719.79   | 3091.55  | 2102.06   | 11905.97  | 11905.97  | 7853.29   |
| 16                    | 7388.34   | 7130.81   | 11382.23  | 8621.31   | 3091.55   | 3017.83   | 27333.50  | 3477.56  | 2311.22   | 11382.23  | 9979.55   | 13763.22  |
| 17                    | 4867.62   | 9589.38   | 6043.53   | 8693.43   | 2632.58   | 6694.19   | 18365.06  | 2981.40  | 31951.00  | 8478.22   | 7989.50   | 14962.08  |
| 18                    | 5069.32   | 5542.64   | 17443.68  | 6512.48   | 2566.15   | 6512.48   | 7519.32   | 2700.12  | 2016.30   | 6694.19   | 6694.19   | 6879.14   |
| 19                    | 4867.62   | 4527.23   | 9589.38   | 6393.12   | 2073.22   | 5706.51   | 4768.74   | 2700.12  | 2500.80   | 6512.48   | 51870.76  | 5120.57   |
| 20                    | 5651.54   | 6275.18   | 5651.54   | 11817.62  | 2632.58   | 4432.88   | 3893.31   | 2768.76  | 2160.52   | 8693.43   | 16118.34  | 8196.66   |
| 21                    | 5381.84   | 8478.22   | 4574.89   | 39103.06  | 2768.76   | 7004.24   | 2981.40   | 2632.58  | 2436.54   | 6633.26   | 8912.12   | 8196.66   |
| 22                    | 18600.20  | 8127.23   | 3477.56   | 15271.93  | 3599.11   | 4818.02   | 2734.30   | 2599.23  | 2500.80   | 8196.66   | 10218.48  | 9979.55   |
| 23                    | 17218.09  | 4967.81   | 4112.66   | 10461.07  | 3054.55   | 4157.46   | 2981.40   | 2373.34  | 2311.22   | 29983.94  | 8478.22   | 20051.81  |
| 24                    | 13093.42  | 4068.17   | 6817.13   | 13093.42  | 2311.22   | 6216.74   | 2533.34   | 2599.23  | 10298.94  | 17218.09  | 11905.97  | 10624.84  |
| 25                    | 7130.81   | 3640.23   | 10218.48  | 24134.33  | 8058.18   | 8336.68   | 2311.22   | 2373.34  | 2632.58   | 16883.25  | 36859.39  | 6275.18   |
| 26                    | 9059.87   | 4527.23   | 36130.40  | 9284.43   | 3166.42   | 15480.78  | 2016.30   | 2250.15  | 2533.34   | 64654.22  | 19196.50  | 7785.74   |
| 27                    | 8838.83   | 13666.21  | 21315.70  | 4202.57   | 2666.21   | 31286.36  | 1851.61   | 2250.15  | 2373.34   | 31784.00  | 20425.76  | 8127.23   |
| 28                    | 7323.40   | 6275.18   | 21187.06  | 4479.90   | 4202.57   | 15271.93  | 2044.63   | 2566.15  | 1960.40   | 19196.50  | 10058.79  | 4386.18   |
| 29                    | 15064.91  |           | 9284.43   | 7130.81   | 2436.54   | 7130.81   | 1851.61   | 2566.15  | 1825.04   | 9979.55   | 7989.50   | 3054.55   |
| 30                    | 14454.71  |           | 10461.07  | 5018.40   | 2468.53   | 4768.74   | 1851.61   | 2533.34  | 2342.15   | 7519.32   | 7130.81   | 2873.81   |
| 31                    | 31121.60  |           | 13958.56  |           | 2342.15   |           | 1960.40   | 2500.80  |           | 6572.69   |           | 1851.61   |
| Rata-rata             | 9971.12   | 10733.24  | 9503.98   | 10177.26  | 3965.91   | 5958.36   | 4592.46   | 2743.35  | 4907.29   | 14253.27  | 13215.97  | 8690.90   |
| Jumlah (ton/bln)      | 309104.66 | 300530.69 | 294623.45 | 305317.66 | 122943.27 | 178750.79 | 142366.39 | 85043.70 | 147218.56 | 441851.49 | 396479.05 | 269417.76 |
| Tebal Erosi (t/bln/m) | 0.00056   | 0.00054   | 0.00053   | 0.00055   | 0.00022   | 0.00032   | 0.00026   | 0.00015  | 0.00027   | 0.00080   | 0.00072   | 0.00049   |
| psi yg terjadi (m/t)  | 0.00093   | 0.00091   | 0.00089   | 0.00092   | 0.00037   | 0.00054   | 0.00043   | 0.00026  | 0.00044   | 0.00133   | 0.00120   | 0.00081   |
| si yg terjadi (mm/)   | 0.93227   | 0.90641   | 0.88860   | 0.92085   | 0.37080   | 0.53912   | 0.42938   | 0.25650  | 0.44402   | 1.33264   | 1.19580   | 0.81258   |

## Data Tahunan:

Total Angkutan Sedimen : 2,993,647 ton/tahun  
 Tebal Erosi Permukaan : 0.0054 ton/thn/m2  
 Erosi yang terjadi : 9.0290 mm/thn

## Keterangan:

Berat Jenis sedimen melayan : 0.6 ton/m3