

Change in capacity of reservoir can be calculated from:

$$-\Delta V(\%) = \frac{100 \sum I_n \beta}{V_i}$$

where

$-\Delta V(\%)$ = ?

$\sum I_{y-1}$ = average annual matter supply

n = number of years reservoir operating

β = trap efficiency

V_i (m^3) = initial capacity of reservoir

tabel identifikasi lahan genangan

No.	Jenis lahan	luas (ha)
1	Sawah	171,5794
2	Kebun/perkebunan (jati)	214,1563
3	Semak/belukar	68,2500
4	Hutan	285,3906
5	Tegalan/ladang	56,0625
Jumlah		795,4388

795
0,439