

Instructions

Reservoir Capacity Computation Sheet NE-ENG-13

Instructions for use of NE-ENG-13

1. The elevation that will be reservoir as shown on the topographic map; starting with the lowest elevation.
2. The sq. in. of area outlined by the topographic line for the corresponding elevation.
3. (2) x Conversion Factor, Example: of conversion factor scale of map 1" = 100', 1 sq. in. = 100 ft.
x 100 ft. = 10,000 sq. ft.

$$\frac{10,000 \text{ ft}^2}{43,560 \text{ ft}^2 / \text{Ac}} = .23 \text{ Ac/ sq. in. measured}$$

After converting sq. in. to acres, interpolate in the acres column to fill in acres corresponding to elevations not measured.

4. (3) + previous (3)
5. Difference between (1) and previous (1) divided by 2
6. (4) x (5)
7. (6) + the previous (7)
8. The same as (7) up to the permanent pool evaluation
9. (7) – the total sediment storage required.

This is the same basic process that is used to figure all reservoir storage capacities.

(9) has a value of "0" at the riser elevation. The (9) = (7) + (6) - above crest sediment, however, (9) > (0)

If additional interpolation is needed between two elevations after the table is complete, the interpolation will be done in (3) and carried through the calculations.

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