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. \((2) \times \text{Conversion Factor, Example: of conversion factor scale of map } 1" = 100', 1 \text{ sq. in.} = 100 \text{ ft.} \times 100 \text{ ft.} = 10,000 \text{ sq. ft.} \)

   \[
   10,000 \text{ ft}^2 = 0.23 \text{ Ac}/\text{sq. in. measured}
   
   43,560 \text{ ft}^2 / \text{Ac}
   
   \]

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

4. \((3) + \text{previous (3)}\)

5. Difference between (1) and previous (1) divided by 2

6. \((4) \times (5)\)

7. \((6) + \text{the previous (7)}\)

8. The same as (7) up to the permanent pool evaluation

9. \((7) - \text{the total sediment storage required.}\)

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

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

   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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