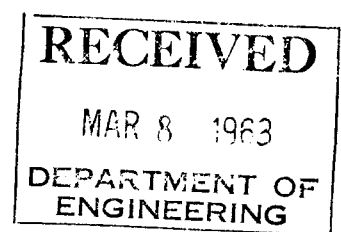


RELATION OF VARIOUS LEVEL SYSTEMS  
Elevations of Other Level Data with Respect to  
The Metropolitan District Datum



- 3.54 - CONNECTICUT RIVER DATUM, mean low water at HARTFORD established by the CORPS OF ENGINEERS January 10, 1963, to equal +2.0 on the HARTFORD GAGE. See U. S. G. S. letter No. 220-74-78; and letters from the CORPS OF ENGINEERS referring to file No. NEDGW.
- 2.08 - U. S. COAST & GEODETIC SURVEY DATUM, equals mean sea level (average of the tides) used by the U. S. GEOLOGICAL SURVEY topographic maps, by the CONNECTICUT HIGHWAY DEPT., and, since 1940±, by the U. S. ARMY ENGINEERS in HARTFORD and vicinity.
- 1.54 - OLD U. S. ARMY ENGINEERS "HARTFORD DATUM", equals low water at HARTFORD of 1801, used primarily by the U. S. WEATHER BUREAU in reports on CONNECTICUT RIVER levels at HARTFORD (Bulkeley Bridge).
- 0.00 - METROPOLITAN DISTRICT DATUM, equals approximate low water at SAYBROOK, used by HARTFORD, WEST HARTFORD and the METROPOLITAN DISTRICT. (METROPOLITAN DISTRICT uses U. S. C. & G. S. datum east of CONNECTICUT RIVER.)
- 0.43 - OLD RESERVOIR DATUM, formerly used by METROPOLITAN WATER BUREAU; information as to base not available.
- 120.28 - NEW BRITAIN DATUM, based on an assumed elevation, obtained from G. J. MOLLEUR, City Engineer, in letter of November 17, 1949.

To convert the known datum to that sought apply the correction shown at the intersection of columns of the given and sought datum.

EXAMPLE: Given Metropolitan District Elevation 13.74  
To convert to Old Reservoir Elevation  
 $13.74 + 0.43 = 14.17$

### CONVERSION TABLE OF FACTORS FOR GIVEN AND SOUGHT ELEVATIONS

|       |                                     | SOUGHT                                 |                            |   | DATUM                      |                       |                |
|-------|-------------------------------------|--|----------------------------|---|----------------------------|-----------------------|----------------|
|       |                                     | 1                                      | 2                          | 3   | 4                          | 5                     | 6              |
|       |                                     | CONN.<br>RIVER<br>DATUM <sup>(1)</sup> | U.S.C.<br>& G.S.<br>M.S.L. | OLD U.S.<br>ARMY<br>ENGRS. <sup>(2)</sup> | METRO-<br>POLITAN<br>DIST. | OLD<br>RES-<br>ERVOIR | NEW<br>BRITAIN |
|       |                                     | CORRECTION                             |                            |   |                            | FACTORS               |                |
| GIVEN | DATUM                               |  |                            |   |                            |                       |                |
| 1     | CONN. RIVER DATUM <sup>(1)</sup>    |  | +1.46 <sup>(3)</sup>       | +2.00                                     | +3.54                      | +3.97                 | +123.82        |
| 2     | U.S.C. & G.S. - M.S.L.              | -1.46 <sup>(3)</sup>                   |                            | +0.54                                     | +2.08                      | +2.51                 | +122.36        |
| 3     | OLD U.S. ARMY ENGRS. <sup>(2)</sup> | -2.00                                  | -0.54                      |   | +1.54                      | +1.97                 | +121.82        |
| 4     | METROPOLITAN DIST.                  | -3.54                                  | -2.08                      | -1.54                                     |                            | +0.43                 | +120.28        |
| 5     | OLD RESERVOIR                       | -3.97                                  | -2.51                      | -1.97                                     | -0.43                      |                       | +119.85        |
| 6     | NEW BRITAIN                         | -123.82                                | -122.36                    | -121.82                                   | -120.28                    | -119.85               |                |

- (1) Corps of Engineers Datum (MLW at Hartford = 2.0 feet)
- (2) Zero on Hartford Gage
- (3) At Hartford Memorial (Bulkeley Bridge only. Decreases downstream.

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