

**HEARTLAND FABRICATION, LLC**  
**1800 Paul Thomas Boulevard**  
**Brownsville, PA 15145**

June 27, 2019

**Customer: FMTA**

Barge Names: FMTA 1901 - FMTA 1930  
 Barge Design B-146  
 Barge Length - ft 200.00  
 Barge Width - ft 35.00  
 Barge Depth - ft 13.00  
 Coaming height - ft 4.00

Model B-146 Rake Covered Hopper Barge (with fiberglass covers)

10

| FEET →<br>INCHES ↓ | SHORT TONS CARGO (without covers) |     |     |     |     |      |      |      |      |      |      |      |      |
|--------------------|-----------------------------------|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
|                    | 1                                 | 2   | 3   | 4   | 5   | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   |
| 0                  | -                                 | 65  | 265 | 467 | 672 | 878  | 1087 | 1298 | 1511 | 1727 | 1945 | 2165 | 2387 |
| 1                  | -                                 | 82  | 282 | 484 | 689 | 895  | 1104 | 1316 | 1529 | 1745 | 1963 | 2183 | 2387 |
| 2                  | -                                 | 98  | 299 | 501 | 706 | 913  | 1122 | 1333 | 1547 | 1763 | 1981 | 2202 | 2387 |
| 3                  | -                                 | 115 | 315 | 518 | 723 | 930  | 1140 | 1351 | 1565 | 1781 | 2000 | 2220 | 2387 |
| 4                  | -                                 | 132 | 332 | 535 | 740 | 948  | 1157 | 1369 | 1583 | 1799 | 2018 | 2239 | 2387 |
| 5                  | -                                 | 148 | 349 | 552 | 757 | 965  | 1175 | 1387 | 1601 | 1817 | 2036 | 2257 | 2387 |
| 6                  | -                                 | 165 | 366 | 569 | 775 | 982  | 1192 | 1404 | 1619 | 1836 | 2055 | 2276 | 2387 |
| 7                  | -                                 | 182 | 383 | 586 | 792 | 1000 | 1210 | 1422 | 1637 | 1854 | 2073 | 2294 | 2387 |
| 8                  | -                                 | 198 | 400 | 603 | 809 | 1017 | 1227 | 1440 | 1655 | 1872 | 2091 | 2313 | 2387 |
| 9                  | 16                                | 215 | 416 | 620 | 826 | 1035 | 1245 | 1458 | 1673 | 1890 | 2110 | 2331 | 2387 |
| 10                 | 32                                | 232 | 433 | 637 | 844 | 1052 | 1263 | 1476 | 1691 | 1908 | 2128 | 2350 | 2387 |
| 11                 | 49                                | 248 | 450 | 654 | 861 | 1069 | 1280 | 1494 | 1709 | 1927 | 2146 | 2369 | 2387 |

Table for avg reading with barge afloat on even keel, FRESH water = 317.69 SHORT TONS barge neat weight + 10 tons for covers  
 Cargo Hopper Volume = 77,166 Cu. Ft. (Struck)

# B-146 Rake Hopper with Covers