



## Student Steel Bridge Competition - Category Ranking

|                         |                                |
|-------------------------|--------------------------------|
| <b>Competition:</b>     | <b>Eastern Great Lakes</b>     |
| <b>Location:</b>        | <b>Akron, Ohio</b>             |
| <b>Date:</b>            | <b>Saturday, April 6, 2024</b> |
| <b>Die Roll Result:</b> | <b>6</b>                       |

### Not Ranked

| Full Name                         | Ineligibility | Reason                   |
|-----------------------------------|---------------|--------------------------|
| Ohio State University             | 11.4          | Failed lateral load test |
| Youngstown State University       | None          |                          |
| University of Michigan            | None          |                          |
| Case Western Reserve University   | None          |                          |
| Cleveland State University        | None          |                          |
| Lawrence Technological University | None          |                          |
| Michigan Technological University | None          |                          |
| Ohio Northern University          | None          |                          |
| Ohio University                   | None          |                          |
| University of Akron               | None          |                          |
| University of Cincinnati          | None          |                          |
| Wayne State University            | None          |                          |
| University of Dayton              | None          |                          |

### Construction Speed

| Full Name                         | Time (minutes) | Rank |
|-----------------------------------|----------------|------|
| Youngstown State University       | 9.28           | 1    |
| Michigan Technological University | 12.98          | 2    |
| Wayne State University            | 14.27          | 3    |
| Ohio Northern University          | 18.57          | 4    |
| Ohio University                   | 22.48          | 5    |
| University of Michigan            | 25.20          | 6    |
| Cleveland State University        | 26.32          | 7    |
| Case Western Reserve University   | 29.05          | 8    |
| University of Akron               | 30.45          | 9    |
| University of Cincinnati          | 47.73          | 10   |
| Lawrence Technological University | 189.75         | 11   |
| University of Dayton              | 190.75         | 12   |
| Ohio State University             | 30.33          | NR   |

### Lightness

| Full Name                         | Weight (lbs) | Rank |
|-----------------------------------|--------------|------|
| Michigan Technological University | 216.0        | 1    |
| Youngstown State University       | 229.4        | 2    |
| University of Michigan            | 284.2        | 3    |
| Case Western Reserve University   | 305.7        | 4    |
| University of Akron               | 308.2        | 5    |
| Cleveland State University        | 344.6        | 6    |
| Wayne State University            | 373.7        | 7    |
| Ohio University                   | 476.4        | 8    |
| Lawrence Technological University | 596.6        | 9    |
| University of Cincinnati          | 646.2        | 10   |
| Ohio Northern University          | 690.4        | 11   |
| University of Dayton              | 2164.7       | 12   |
| Ohio State University             | 936.4        | NR   |

## Aesthetics

| Full Name                         | Score | Rank |
|-----------------------------------|-------|------|
| Cleveland State University        | 13.75 | 1    |
| University of Michigan            | 11.25 | 2    |
| Wayne State University            | 11.00 | 3    |
| Case Western Reserve University   | 10.50 | 4    |
| University of Akron               | 10.50 | 5    |
| Lawrence Technological University | 9.75  | 6    |
| Michigan Technological University | 9.50  | 7    |
| Ohio Northern University          | 9.00  | 8    |
| University of Dayton              | 8.75  | 9    |
| Ohio University                   | 8.50  | 10   |
| University of Cincinnati          | 8.00  | 11   |
| Youngstown State University       | 8.00  | 12   |
| Ohio State University             | 7.75  | 13   |

## Stiffness

| Full Name                         | Agg D (in) | Rank |
|-----------------------------------|------------|------|
| Michigan Technological University | 0.55       | 1    |
| Ohio University                   | 0.74       | 2    |
| Case Western Reserve University   | 0.76       | 3    |
| Youngstown State University       | 0.77       | 4    |
| University of Dayton              | 0.94       | 5    |
| University of Michigan            | 1.14       | 6    |
| University of Cincinnati          | 1.97       | 7    |
| University of Akron               | 3.56       | 8    |
| Lawrence Technological University | 3.65       | 9    |
| Wayne State University            | 4.06       | 10   |
| Cleveland State University        | 10.00      | 11   |
| Ohio Northern University          | 10.00      | 12   |
| Ohio State University             | 0.00       | NR   |

## Cost Estimate

| Full Name                         | Estimate          | Rank |
|-----------------------------------|-------------------|------|
| Ohio University                   | \$ 221,432.04     | 1    |
| University of Michigan            | \$ 314,915.13     | 2    |
| Michigan Technological University | \$ 616,668.65     | 3    |
| Youngstown State University       | \$ 617,493.87     | 4    |
| Case Western Reserve University   | \$ 5,085,863.73   | 5    |
| University of Cincinnati          | \$ 14,556,654.77  | 6    |
| Wayne State University            | \$ 17,830,673.41  | 7    |
| University of Akron               | \$ 24,381,206.12  | 8    |
| Ohio Northern University          | \$ 60,509,857.07  | 9    |
| Cleveland State University        | \$ 65,457,915.85  | 10   |
| University of Dayton              | \$ 127,925,236.27 | 11   |
| Lawrence Technological University | \$ 140,047,111.22 | 12   |
| Ohio State University             | \$ 2,589,636.12   | NR   |

## Economy

| Full Name                         | Cc                | Rank |
|-----------------------------------|-------------------|------|
| Youngstown State University       | \$ 5,094,166.67   | 1    |
| Michigan Technological University | \$ 5,814,833.33   | 2    |
| University of Michigan            | \$ 8,480,250.00   | 3    |
| Wayne State University            | \$ 13,404,000.00  | 4    |
| Ohio University                   | \$ 14,523,500.00  | 5    |
| Ohio Northern University          | \$ 16,811,000.00  | 6    |
| University of Cincinnati          | \$ 20,616,000.00  | 7    |
| Cleveland State University        | \$ 22,826,166.67  | 8    |
| Case Western Reserve University   | \$ 22,830,250.00  | 9    |
| University of Akron               | \$ 23,580,500.00  | 10   |
| Lawrence Technological University | \$ 151,337,500.00 | 11   |
| University of Dayton              | \$ 168,287,500.00 | 12   |
| Ohio State University             | \$ 21,504,583.33  | NR   |

## Efficiency

| Full Name                         | Cs               | Rank |
|-----------------------------------|------------------|------|
| Michigan Technological University | \$ 3,290,240.02  | 1    |
| Case Western Reserve University   | \$ 4,283,585.27  | 2    |
| Youngstown State University       | \$ 4,302,327.20  | 3    |
| Ohio University                   | \$ 5,839,801.04  | 4    |
| University of Michigan            | \$ 6,396,308.87  | 5    |
| University of Cincinnati          | \$ 10,845,776.77 | 6    |
| University of Dayton              | \$ 24,803,615.27 | 7    |
| University of Akron               | \$ 26,382,111.12 | 8    |
| Wayne State University            | \$ 28,020,024.41 | 9    |
| Lawrence Technological University | \$ 30,152,403.22 | 10   |
| Cleveland State University        | \$ 62,648,250.18 | 11   |
| Ohio Northern University          | \$ 63,121,257.07 | 12   |
| Ohio State University             | \$ 4,273,199.79  | NR   |

## Overall

| Full Name                         | Cc + Cs           | Rank |
|-----------------------------------|-------------------|------|
| Michigan Technological University | \$ 9,105,073.35   | 1    |
| Youngstown State University       | \$ 9,396,493.87   | 2    |
| University of Michigan            | \$ 14,876,558.87  | 3    |
| Ohio University                   | \$ 20,363,301.04  | 4    |
| Case Western Reserve University   | \$ 27,113,835.27  | 5    |
| University of Cincinnati          | \$ 31,461,776.77  | 6    |
| Wayne State University            | \$ 41,424,024.41  | 7    |
| University of Akron               | \$ 49,962,611.12  | 8    |
| Ohio Northern University          | \$ 79,932,257.07  | 9    |
| Cleveland State University        | \$ 85,474,416.85  | 10   |
| Lawrence Technological University | \$ 181,489,903.22 | 11   |
| University of Dayton              | \$ 193,091,115.27 | 12   |
| Ohio State University             | \$ 25,777,783.12  | NR   |