Maximum Goal Differential = 6

Beginning in the 2023-24 season, games decided in OT are treated as 0.5 goal W/L as opposed

to the full 1 goal win/loss that they were treated as in previous seasons.

To that end, the OTW and OTL columns are subsets of the totals in the W and L columns.

OTW and OTL are used to calculate the adjustment (OTAdj) needed for games decided in OT.

 RANK TEAM W L T OTW OTL GmPerf Sched OTAdj Total Last 5

 1,Liberty University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 8 1 0 1 1, 2.6, 8.9, 0.00 11.42, 11.59

 2,Adrian College,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 9 4 0 0 0, 2.5, 8.3, 0.00 10.79, 10.62

 3,Midland University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 15 0 1 0 0, 2.9, 7.7, 0.00 10.54, 10.66

 4,Maryville University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10 7 0 0 1, 0.9, 8.5, 0.03 9.46, 8.60

 5,University of Michigan,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 9 0 0 1 0, 2.4, 7.0, -0.06 9.36, 9.81

 6,McKendree University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 8 5 1 0 0, 0.7, 8.6, 0.00 9.31, 9.40

 7,Arizona State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10 1 0 0 0, 3.5, 5.6, 0.00 9.08, 9.43

 8,Indiana Tech,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10 2 0 3 0, 2.5, 6.4, -0.12 8.82, 8.16

 9,Minot State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5 9 0 3 0, -1.1, 9.8, -0.11 8.61, 8.76

 10,University of Jamestown,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6 2 0 0 0, 1.2, 6.9, 0.00 8.17, 8.30

 11,University of Michigan-Dearborn,\_\_\_\_\_\_\_\_\_\_ 9 3 0 0 0, 1.6, 6.5, 0.00 8.10, 8.60

 12,University of Massachusetts-Amherst,\_\_\_\_\_\_ 5 5 0 0 1, 0.6, 7.0, 0.05 7.65, 8.28

 13,Niagara University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4 5 0 1 1, -0.4, 7.9, 0.00 7.46, 7.08

 14,Grand Valley State University,\_\_\_\_\_\_\_\_\_\_\_\_ 4 4 0 0 0, 0.1, 7.2, 0.00 7.37, 7.01

 15,University of Minnesota,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3 3 0 0 0, 0.8, 6.3, 0.00 7.17, 6.27

 16,Miami University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1 9 0 0 2, -1.9, 8.9, 0.10 7.06, 8.05

 17,Lake Superior State University,\_\_\_\_\_\_\_\_\_\_\_ 4 9 0 0 1, -0.5, 7.4, 0.04 6.92, 7.38

 18,Michigan State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7 4 1 0 1, 0.7, 5.8, 0.04 6.48, 6.75

 19,Lindenwood University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0 8 0 0 1, -3.6, 10.0, 0.06 6.45, 7.02

 20,Concordia University-Ann Arbor,\_\_\_\_\_\_\_\_\_\_\_ 2 8 0 0 0, -2.1, 7.7, 0.00 5.64, 6.96

 21,Penn State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4 6 0 0 0, -1.0, 6.5, 0.00 5.53, 4.26

 22,University of Utah,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5 5 0 1 0, 0.0, 5.3, -0.05 5.27, 5.02

 23,University of Rhode Island,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0 3 0 0 0, -2.3, 7.2, 0.00 4.86

 24,University of Colorado,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2 8 0 0 0, -2.1, 6.9, 0.00 4.78, 5.39

 25,Grand Canyon University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1 9 0 0 0, -4.0, 8.6, 0.00 4.60, 4.16

 26,Colorado State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4 5 1 0 1, 0.5, 4.0, 0.05 4.57, 4.49

 27,University of Denver,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4 3 0 0 0, 0.4, 3.8, 0.00 4.23, 4.10

 28,Aquinas College,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1 6 0 0 0, -2.6, 5.6, 0.00 3.03, 3.37

 29,Davenport University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1 9 0 0 0, -4.7, 6.9, 0.00 2.21, 1.88

 30,Montana State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4 6 0 1 0, -1.2, 2.0, -0.05 0.74, 1.27

 31,University of Wyoming,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0 6 0 0 1, -4.2, 2.0, 0.08 -2.05, -2.30

**Maximum Goal Differential = 1 (i.e. just considers W, L, T and schedule strength)**

 **RANK TEAM W L T OTW OTL GmPerf Sched OTAdj Total Last 5**

 **1,Liberty University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 8 1 0 1 1, 0.8, 7.4, 0.00 8.15, 8.29**

 **2,Midland University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 15 0 1 0 0, 0.9, 7.2, 0.00 8.11, 8.15**

 **3,University of Michigan,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 9 0 0 1 0, 1.0, 6.9, -0.06 7.88, 8.09**

 **4,Adrian College,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 9 4 0 0 0, 0.4, 7.3, 0.00 7.65, 7.62**

 **5,McKendree University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 8 5 1 0 0, 0.2, 7.4, 0.00 7.63, 7.64**

 **6,Maryville University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10 7 0 0 1, 0.2, 7.4, 0.03 7.58, 7.27**

 **7,Arizona State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10 1 0 0 0, 0.8, 6.7, 0.00 7.50, 7.52**

 **8,University of Jamestown,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6 2 0 0 0, 0.5, 7.0, 0.00 7.45, 7.50**

 **9,Indiana Tech,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10 2 0 3 0, 0.7, 6.8, -0.12 7.38, 7.25**

 **10,University of Michigan-Dearborn,\_\_\_\_\_\_\_\_\_\_ 9 3 0 0 0, 0.5, 6.9, 0.00 7.36, 7.59**

 **11,Minot State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5 9 0 3 0, -0.3, 7.7, -0.11 7.31, 7.21**

 **12,University of Massachusetts-Amherst,\_\_\_\_\_\_ 5 5 0 0 1, 0.0, 7.1, 0.05 7.17, 7.31**

 **13,Niagara University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4 5 0 1 1, -0.1, 7.2, 0.00 7.07, 7.06**

 **14,Michigan State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7 4 1 0 1, 0.3, 6.7, 0.04 6.97, 6.94**

 **15,Grand Valley State University,\_\_\_\_\_\_\_\_\_\_\_\_ 4 4 0 0 0, 0.0, 7.0, 0.00 6.96, 6.70**

 **16,Lindenwood University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0 8 0 0 1, -1.0, 7.8, 0.06 6.89, 6.92**

 **17,Lake Superior State University,\_\_\_\_\_\_\_\_\_\_\_ 4 9 0 0 1, -0.4, 7.2, 0.04 6.85, 7.04**

 **18,University of Minnesota,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3 3 0 0 0, 0.0, 6.8, 0.00 6.82, 6.67**

 **19,Miami University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1 9 0 0 2, -0.8, 7.5, 0.10 6.78, 6.93**

 **20,Grand Canyon University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1 9 0 0 0, -0.8, 7.4, 0.00 6.65, 6.52**

 **21,Penn State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4 6 0 0 0, -0.2, 6.8, 0.00 6.61, 6.27**

 **22,University of Utah,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5 5 0 1 0, 0.0, 6.6, -0.05 6.55, 6.58**

 **23,Concordia University-Ann Arbor,\_\_\_\_\_\_\_\_\_\_\_ 2 8 0 0 0, -0.6, 7.1, 0.00 6.53, 6.76**

 **24,University of Colorado,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2 8 0 0 0, -0.6, 7.0, 0.00 6.43, 6.45**

 **25,University of Denver,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4 3 0 0 0, 0.1, 6.2, 0.00 6.32, 6.36**

 **26,Colorado State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4 5 1 0 1, -0.1, 6.3, 0.05 6.23, 6.12**

 **27,Davenport University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1 9 0 0 0, -0.8, 7.0, 0.00 6.16, 6.18**

 **28,University of Rhode Island,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0 3 0 0 0, -1.0, 7.1, 0.00 6.11**

 **29,Aquinas College,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1 6 0 0 0, -0.7, 6.7, 0.00 5.99, 5.93**

 **30,Montana State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4 6 0 1 0, -0.2, 5.8, -0.05 5.50, 5.72**

 **31,University of Wyoming,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0 6 0 0 1, -1.0, 5.8, 0.08 4.84, 4.65**

 **- \* in place of rank indicates team whose rank is based on fewer than 3 scores.**

 **The program starts all teams with an equal arbitrary value and then**

**adjusts them all recursively based on game scores until the lowest cumulative**

**error between expected goal differentials and actual goal differentials is**

**reached (convergence). One effect often noticed is that a team's rating can**

**change slightly without playing due to previous opponents playing which affects**

**their rating and their opponent's rating, etc.**

 **The Total column is in goal units and the difference in this value between**

**any two teams is the predicted goal differential for a game played at a**

**neutral site between those two teams.**

 **It should be noted that these rankings are an average performance value**

**for each team for the entire season, all games are equally weighted, so a team's**

**latest game may make up only 1/40th of a teams rating at the end of the season.**

 **Games that go to shootouts for decision are considered ties for ratings purposes.**

 **Actually, there are two different rankings listed below. The first is as described**

**above with the maximum goal differential used per game set at 7.**

 **This ordering ends up similar to** [**CCHP**](https://www.google.com/url?q=http://www.uafhockey.com/hratings.html&source=gmail-html&ust=1700105344123000&usg=AOvVaw0NzFojXHutuBYTnNj_hkCG)**, although differences do arise due to CCHP**

**considering home ice advantage and CCHP not using a goal differential limit.**

 **The second ranking sets maximum goal differential at 1, thereby just considering**

**whether the game was won, lost, or tied (and strength of opponent). Note that the Total column**

**in the GD=1 ranking is therefore in win percentage units rather than goal units. A rated .01**

**ahead of B can be interpreted as saying that if these two teams played exclusively against**

**each other, A's predicted winning percentage is 1 percentage point higher than B's**

**(i.e. A's predicted winning percentage vs. B would be .495, B's against**

**A would be .505). However, since the teams do not play exclusively against the other it**

**is actually a little bit more complex than above as teams can be ranked as high as 1.0**

**above their average opponent (if they were undefeated and untied) and as low as 1.0**

**below their average opponent (if they lost all of their games).**