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, 8.7, 0.00 11.24, 11.32

 2,Midland University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 13 0 1 0 0, 3.0, 7.5, 0.00 10.54, 10.52

 3,Adrian College,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7 3 0 0 0, 2.7, 7.8, 0.00 10.46, 9.89

 4,Maryville University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10 5 0 0 1, 1.5, 8.1, 0.03 9.66, 9.55

 5,Indiana Tech,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 9 1 0 2 0, 3.2, 6.1, -0.10 9.22, 9.73

 6,McKendree University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7 4 1 0 0, 1.0, 8.2, 0.00 9.19, 9.28

 7,University of Michigan,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6 0 0 0 0, 2.5, 6.5, 0.00 9.05, 9.13

 8,Arizona State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 9 1 0 0 0, 3.2, 5.8, 0.00 8.99, 8.87

 9,Minot State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5 7 0 3 0, -0.9, 9.6, -0.12 8.59, 8.89

 10,University of Jamestown,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6 2 0 0 0, 1.2, 7.2, 0.00 8.47, 8.75

 11,University of Minnesota,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2 2 0 0 0, 1.2, 7.1, 0.00 8.39

 12,University of Michigan-Dearborn,\_\_\_\_\_\_\_\_\_\_ 7 3 0 0 0, 0.7, 7.3, 0.00 8.05, 8.83

 13,University of Massachusetts-Amherst,\_\_\_\_\_\_ 3 5 0 0 1, 0.1, 7.5, 0.06 7.71, 8.05

 14,Niagara University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4 5 0 1 1, -0.4, 7.7, 0.00 7.25, 6.88

 15,Grand Valley State University,\_\_\_\_\_\_\_\_\_\_\_\_ 3 2 0 0 0, 0.2, 7.0, 0.00 7.15, 7.15

 16,Lake Superior State University,\_\_\_\_\_\_\_\_\_\_\_ 2 9 0 0 1, -0.8, 7.4, 0.05 6.62, 6.84

 17,Miami University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0 8 0 0 1, -2.6, 8.8, 0.06 6.22, 7.04

 18,Penn State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4 4 0 0 0, -0.5, 6.7, 0.00 6.21, 5.81

 19,Michigan State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5 4 1 0 1, 0.2, 5.7, 0.05 5.98, 5.13

 20,Lindenwood University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0 6 0 0 0, -4.2, 10.1, 0.00 5.90, 6.18

 21,Concordia University-Ann Arbor,\_\_\_\_\_\_\_\_\_\_\_ 2 8 0 0 0, -2.1, 7.9, 0.00 5.81, 6.97

 22,University of Rhode Island,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0 3 0 0 0, -2.3, 7.7, 0.00 5.32

 23,University of Utah,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5 3 0 1 0, 0.6, 4.7, -0.06 5.29, 4.73

 24,Grand Canyon University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1 8 0 0 0, -3.8, 8.6, 0.00 4.83, 4.42

 25,University of Colorado,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2 8 0 0 0, -2.1, 6.8, 0.00 4.70, 5.26

 26,Colorado State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3 5 1 0 1, 0.2, 4.2, 0.06 4.49, 4.42

 27,University of Denver,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4 3 0 0 0, 0.4, 3.6, 0.00 4.08, 3.94

 28,Aquinas College,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1 5 0 0 0, -2.7, 5.1, 0.00 2.40, 2.68

 29,Davenport University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1 7 0 0 0, -4.4, 6.5, 0.00 2.11, 1.41

 30,Montana State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2 5 0 0 0, -2.0, 2.7, 0.00 0.67, 0.79

 31,University of Wyoming,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0 4 0 0 0, -5.0, 2.5, 0.00 -2.45

**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,Midland University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 13 0 1 0 0, 0.9, 7.1, 0.00 8.06, 8.24**

 **2,Liberty University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 8 1 0 1 1, 0.8, 7.3, 0.00 8.05, 8.15**

 **3,University of Michigan,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6 0 0 0 0, 1.0, 6.7, 0.00 7.75, 7.82**

 **4,Maryville University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10 5 0 0 1, 0.3, 7.3, 0.03 7.68, 7.43**

 **5,Adrian College,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7 3 0 0 0, 0.4, 7.2, 0.00 7.58, 7.64**

 **6,Arizona State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 9 1 0 0 0, 0.8, 6.8, 0.00 7.58, 7.50**

 **7,McKendree University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7 4 1 0 0, 0.3, 7.3, 0.00 7.56, 7.54**

 **8,University of Jamestown,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6 2 0 0 0, 0.5, 7.0, 0.00 7.48, 7.54**

 **9,Indiana Tech,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 9 1 0 2 0, 0.8, 6.7, -0.10 7.43, 7.65**

 **10,University of Michigan-Dearborn,\_\_\_\_\_\_\_\_\_\_ 7 3 0 0 0, 0.4, 7.0, 0.00 7.37, 7.73**

 **11,Minot State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5 7 0 3 0, -0.2, 7.6, -0.12 7.27, 7.39**

 **12,Grand Valley State University,\_\_\_\_\_\_\_\_\_\_\_\_ 3 2 0 0 0, 0.2, 7.0, 0.00 7.18, 7.18**

 **13,University of Massachusetts-Amherst,\_\_\_\_\_\_ 3 5 0 0 1, -0.3, 7.2, 0.06 7.03, 7.03**

 **14,University of Minnesota,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2 2 0 0 0, 0.0, 7.0, 0.00 7.01**

 **15,Niagara University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4 5 0 1 1, -0.1, 7.1, 0.00 6.94, 6.93**

 **16,Michigan State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5 4 1 0 1, 0.1, 6.7, 0.05 6.84, 6.70**

 **17,Penn State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4 4 0 0 0, 0.0, 6.8, 0.00 6.77, 6.61**

 **18,University of Utah,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5 3 0 1 0, 0.3, 6.6, -0.06 6.74, 6.93**

 **19,Grand Canyon University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1 8 0 0 0, -0.8, 7.5, 0.00 6.74, 6.74**

 **20,Lindenwood University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0 6 0 0 0, -1.0, 7.7, 0.00 6.73, 6.76**

 **21,Lake Superior State University,\_\_\_\_\_\_\_\_\_\_\_ 2 9 0 0 1, -0.6, 7.2, 0.05 6.57, 6.48**

 **22,Concordia University-Ann Arbor,\_\_\_\_\_\_\_\_\_\_\_ 2 8 0 0 0, -0.6, 7.1, 0.00 6.54, 6.76**

 **23,Miami University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0 8 0 0 1, -1.0, 7.4, 0.06 6.50, 6.61**

 **24,University of Colorado,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2 8 0 0 0, -0.6, 7.0, 0.00 6.44, 6.48**

 **25,University of Denver,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4 3 0 0 0, 0.1, 6.2, 0.00 6.36, 6.41**

 **26,Colorado State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3 5 1 0 1, -0.2, 6.5, 0.06 6.30, 6.12**

 **27,University of Rhode Island,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0 3 0 0 0, -1.0, 7.2, 0.00 6.20**

 **28,Davenport University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1 7 0 0 0, -0.8, 6.8, 0.00 6.00, 5.64**

 **29,Aquinas College,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1 5 0 0 0, -0.7, 6.7, 0.00 5.99, 6.21**

 **30,Montana State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2 5 0 0 0, -0.4, 6.1, 0.00 5.67, 5.61**

 **31,University of Wyoming,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0 4 0 0 0, -1.0, 6.0, 0.00 4.96**

 **- \* 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=1699540617563000&usg=AOvVaw3MXAMVJ89DpHPQLz_zhyHK)**, 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).**