

AIA Power Rankings System & State Tournament Qualifying

2011-2012

AIA Power Rankings System

ALL REGULAR SEASON GAMES (EXCLUDING INVITATIONAL TOURNAMENT GAMES) VERSUS AIA MEMBER SCHOOLS AND OUT OF STATE SCHOOLS (AS PART OF FILLING A SCHOOLS FULL SCHEDULE) COUNT FOR POWER RANKINGS!!!

The formula:

$$\frac{.50 (\text{Victory Points}) + .45 (\text{Opponent Victory Points}) + .05 (\text{Opponent's Opponent Victory Points})}{\# \text{ of AIA Member School Regular Season Games Scheduled}}$$

Games that Count toward a Schools Power Ranking

- All regular season games versus AIA member schools count toward an AIA member school power ranking, excluding invitational tournament games, but including out of state schools when need to help fill a schools full schedule.
- For purposes of counting out of state games, an out of state game will only automatically count if the school needs that game in order to meet the following number of regular season games, which would constitute a full schedule:
 - Badminton: 12 games
 - Baseball: 14 games
 - Basketball: 14 games
 - Football (D-I to D-V): 8 games
 - Football (D-VI): 6 games
 - Soccer: 10 games
 - Softball: 14 games
 - Tennis (Team): 12 games
 - Volleyball: 14 games
- If a school would like to count an out of state game, and has already reached the number of games listed above, that school must declare to do so prior to the start of the season and follow the guidelines in the next section.
- Out of State team wins, opponent victory points, and opponent's opponent victory points, will count equal to that of the Division of the AIA member school

AIA Member School Responsibility when playing an Out of State School

The AIA member school that is competing against an out of state school is responsible for the following:

1. Submitting the full season schedule to the Robyn Bingham at the AIA Office, rmbingham@aiaonline.org, including the address and phone number of the opponents the out of state school is playing
2. Reporting on a weekly basis the games the out of state school won and lost on their schedule to Robyn Bingham at the AIA Office, rmbingham@aiaonline.org
3. Reporting on a weekly basis the record of the opponents of the out of state school for purposes of tracking opponent's opponent victory points Robyn Bingham at the AIA Office, rmbingham@aiaonline.org

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The Factors of the Formula:

Number of games an AIA member school plays vs. AIA member schools and out of state schools (as part of a schools full schedule) will have a direct affect on the opportunity to earn opponent and opponent's opponent points. If a game is cancelled and cannot be made up due to extenuating circumstances, then the divisor for each school will automatically lower by one.

Opponent victory points from each opponent will be calculated by taking the total number of opponent victory points earned divided by that opponent's number of counting games. That will then be multiplied by the number of counting games of your school to get the opponent victory point total earned by that one opponent for power ranking purposes.

Example: In basketball, St. Johns has 18 counting games and played Winslow with 17 counting games. In Winslow's 17 games, Winslow earned 60 opponent victory points for St. Johns on 12 wins. St. Johns would receive 63.53 opponent victory points from Winslow $((60/17)*18)$. Likewise, if St. Johns had 70 opponent victory points in 18 games, Winslow would receive 66.11 opponent victory points from St. Johns $((70/18)*17)$. The same example would hold true in calculating each opponent's opponent victory points for the school.

Cancellation of Program within Season:

If a school cancels a program after the beginning of the season of sport, those games will be marked as forfeit wins for the teams in which they would have been competing against. The member school that is receiving the forfeit win may play another game against another member school, but that game will not count for either school for purposes of the power rankings.

Team Sports Using Power Rankings:

Sport	Matrix for 2011-2012
Badminton	Division
Baseball	Division
Basketball (Boys & Girls)	Division
Football	Division
Soccer (Boys & Girls)	Division
Softball	Division
Tennis (Boys & Girls)	Division
Volleyball (Boys & Girls)	Division

Website Display:

Rank, School, W-L, PR W-L, VP, OPVP, OPOPVP, Weighted Total Pts, # of PR Games, Power Points

- W-L is win-loss record
- PR W-L is the schools power ranking win-loss record
- VP stands for Victory Points of School
- OPVP stands for Opponent Victory Points
- OPOPVP stands for Opponent's Opponent Victory Points

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- Weighted Total Pts is based on the formula they receive for VP, OPVP, and OPOPVP
- # of PR Games is number of power ranked games for the school
- Power Points is their power points

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State Tournament Qualifying

The following outlines how the state tournament will be created for each sport utilizing the AIA Power Rankings System:

Badminton:

Division I (16 team bracket): The top three (3) power ranked teams from each of the three sections for a total of nine (9) teams will earn an automatic bid to the state tournament. The final seven (7) spots will be based on overall power ranking. The bracket will be seeded according to overall power ranking of the 16 teams.

- The tournament will consist of four rounds and will be single elimination

Baseball:

Division I & II (24 team brackets): The top four (4) power ranked teams from each of the three sections for a total of 12 teams will earn an automatic bid to the state tournament. The final 12 spots will be based on overall power ranking. The bracket will be seeded according to overall power ranking of the 24 teams.

- Teams seeded #1 to #8 will get a first round bye
- The first two rounds of the tournament will be single elimination to get to the final eight (8) teams
- The final eight (8) teams will then play a double elimination tournament
- There will be only one game for the championship

Division III & IV (24 team bracket): The top four (4) power ranked teams from each of the three sections for a total of 12 teams will earn an automatic bid to the state tournament. The final 12 spots will be based on overall power ranking. The bracket will be seeded according to overall power ranking of the 24 teams.

- Teams seeded #1 to #8 will get a first round bye
- The tournament will consist of five rounds and will be single elimination

Basketball (Boys & Girls):

Division I, II, III, & IV Sectional Tournament (8 team bracket): The top eight (8) power ranked teams from each section will make up the section tournament. The bracket will be seeded according to their power ranking within their section, and the power rankings will continue to update through sectional tournaments to determine state tournament seeding.

- The sectional tournament will consist of three rounds and will be single elimination

Division I, II, III, & IV State Tournament (24 team bracket): Four (4) teams from each of the three sections for a total of 12 teams will earn an automatic bid based on how they finish within their sectional tournament. The final 12 spots will be based on overall power ranking. The bracket will be seeded according to overall power ranking of the 24 teams.

- Teams seeded #1 to #8 will get a first round bye
- The tournament will consist of five rounds and will be single elimination

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Football:

Division I, II, III, IV, & V (16 team bracket): The top three (3) power ranked teams from each of the three sections for a total of nine (9) teams will earn an automatic bid to the state tournament. The final seven (7) spots will be based on overall power ranking. The bracket will be seeded according to overall power ranking of the 16 teams.

- The tournament will consist of four rounds and will be single elimination

Division VI (12 team bracket): The top three (3) power ranked teams from each of the three sections for a total of nine (9) teams will earn an automatic bid to the state tournament. The final three (3) spots will be based on overall power ranking. The bracket will be seeded according to overall power ranking of the 12 teams.

- Teams seeded #1 to #4 will get a first round bye
- The tournament will consist of four rounds and will be single elimination

Soccer (Boys & Girls):

Division I, II, & III (16 team bracket): The top three (3) power ranked teams from each of the three sections for a total of nine (9) teams will earn an automatic bid to the state tournament. The final seven (7) spots will be based on overall power ranking. The bracket will be seeded according to overall power ranking of the 16 teams.

- The tournament will consist of four rounds and will be single elimination

Division IV Boys (12 team bracket): The top three (3) power ranked teams from each of the three sections for a total of nine (9) teams will earn an automatic bid to the state tournament. The final three (3) spots will be based on overall power ranking. The bracket will be seeded according to overall power ranking of the 12 teams.

- Teams seeded #1 to #4 will get a first round bye
- The tournament will consist of four rounds and will be single elimination

Division IV Girls (8 team bracket): The top two (2) power ranked teams from each of the three sections for a total of six (6) teams will earn an automatic bid to the state tournament. The final two (2) spots will be based on overall power ranking. The bracket will be seeded according to overall power ranking of the 8 teams.

- The tournament will consist of three rounds and will be single elimination

Softball:

Division I & II (24 team brackets): The top four (4) power ranked teams from each of the three sections for a total of 12 teams will earn an automatic bid to the state tournament. The final 12 spots will be based on overall power ranking. The bracket will be seeded according to overall power ranking of the 24 teams.

- Teams seeded #1 to #8 will get a first round bye
- The first two rounds of the tournament will be single elimination to get to the final eight (8) teams
- The final eight (8) teams will then play a double elimination tournament
- There will be only one game for the championship

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Division III & IV (24 team bracket): The top four (4) power ranked teams from each of the three sections for a total of 12 teams will earn an automatic bid to the state tournament. The final 12 spots will be based on overall power ranking. The bracket will be seeded according to overall power ranking of the 24 teams.

- Teams seeded #1 to #8 will get a first round bye
- The tournament will consist of five rounds and will be single elimination

Tennis (Boys & Girls):

Division I, II, & III (16 team bracket): The top three (3) power ranked teams from each of the three sections for a total of nine (9) teams will earn an automatic bid to the state tournament. The final seven (7) spots will be based on overall power ranking. The bracket will be seeded according to overall power ranking of the 16 teams.

- The tournament will consist of four rounds and will be single elimination

Volleyball (Boys):

Division I (24 team bracket): The top four (4) power ranked teams from each of the three sections for a total of 12 teams will earn an automatic bid to the state tournament. The final 12 spots will be based on overall power ranking. The bracket will be seeded according to overall power ranking of the 24 teams.

- Teams seeded #1 to #8 will get a first round bye
- The tournament will consist of five rounds and will be single elimination

Volleyball (Girls):

Division I, II, III, IV, & V (16 team bracket): The top three (3) power ranked teams from each of the three sections for a total of nine (9) teams will earn an automatic bid to the state tournament. The final seven (7) spots will be based on overall power ranking. The bracket will be seeded according to overall power ranking of the 16 teams.

- The tournament will consist of four rounds and will be single elimination

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AIA Power Rankings Divisions Matrix:

70 Point Scale (Badminton):

Victory Points Matrix	
Your Division	Opponents Division
	I
I	70

50 Point Scale (Football):

Victory Points Matrix						
Your Division	Opponents Division					
	VI	V	IV	III	II	I
VI	50	55	60	65	70	75
V	50	50	55	60	65	70
IV	45	50	50	55	60	65
III	40	45	50	50	55	60
II	35	40	45	50	50	55
I	30	35	40	45	50	50

70 Point Scale (Fall Soccer):

Victory Points Matrix	
Your Division	Opponents Division
	IV
IV	70

90 Point Scale (Girls Volleyball):

Victory Points Matrix					
Your Division	Opponents Division				
	V	IV	III	II	I
V	90	95	100	105	110
IV	90	90	95	100	105
III	85	90	90	95	100
II	80	85	90	90	95
I	75	80	85	90	90

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AIA Power Rankings Divisions Matrix continued:

90 Point Scale (Basketball, Baseball, Softball):

Victory Points Matrix				
Your Division	Opponents Division			
	IV	III	II	I
IV	90	95	100	105
III	90	90	95	100
II	85	90	90	95
I	80	85	90	90

70 Point Scale (Winter Soccer, Tennis):

Victory Points Matrix			
Your Division	Opponents Division		
	III	II	I
III	70	75	80
II	70	70	75
I	65	70	70

90 Point Scale (Boys Volleyball):

Victory Points Matrix	
Your Division	Opponents Division
	I
I	90

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AIA Power Rankings Divisions Matrix:

Opponent and Opponent's Opponent Matrix:

Opponent Victory Points Matrix						
Opponents Division	Their Opponents Division					
	VI	V	IV	III	II	I
VI	5.0	5.0	5.5	6.0	6.5	7.0
V	5.0	5.0	5.0	5.5	6.0	6.5
IV	4.5	5.0	5.0	5.0	5.5	6.0
III	4.0	4.5	5.0	5.0	5.0	5.5
II	3.5	4.0	4.5	5.0	5.0	5.0
I	3.0	3.5	4.0	4.5	5.0	5.0

Opponent Opponents Victory Points Matrix						
Opponent Opponents Division	Their Opponent Opponents Division					
	VI	V	IV	III	II	I
VI	3.0	3.5	4.0	4.5	5.0	5.5
V	3.0	3.0	3.5	4.0	4.5	5.0
IV	2.5	3.0	3.0	3.5	4.0	4.5
III	2.0	2.5	3.0	3.0	3.5	4.0
II	1.5	2.0	2.5	3.0	3.0	3.5
I	1.0	1.5	2.0	2.5	3.0	3.0