September 28, 2023

RE: Water Polo Playoff Groupings

Playoff groupings will be reflective of the 2022-2023 season data with a small percentage of the 2021-2022 season data included. Via bylaw, we include the most recent two years of results.

As a reminder we offer Divisions 1, 2, 3, 4, 5, and 6, respectively; but also offer an "Open" division. Using "in season" results to determine the Open Division teams, the top 8 teams in the section, will be chosen by committee to represent that division.

In a model where an "Open" division exists, teams can qualify from any numerical division should their strength warrant such a move. Seeding in the 8-team "Open" bracket will be a straight 1-8 seed without the restriction of league affiliation. By reorganizing divisional reference, the CIFSS Water Polo Advisory Committee was able to accomplish this goal in line with other team sports.

The CIFSS appreciates your attention to these details. If you have questions, don't hesitate to have your school's athletic leadership contact the CIFSS office. Divisions are subject to change if any information going into the rankings is incorrect. There are not appeals of placement as the configurations are data driven.

Good luck with your season!

Sincerely,

Kristine Palle M.Ed.
CIF Southern Section
Assistant Commissioner

CALIFORNIA INTERSCHOLASTIC FEDERATION ~ ACADEMICS ~ ATHLETICS ~ INTEGRITY

MASSEY RATINGS

- **Inputs**

  The computer considers the outcome of each game. Optionally, some games may be assigned more or less weight than usual (e.g.: playoffs or exhibitions). All games are analyzed in concert, so that the impressiveness of each win is constantly being re-evaluated in light of the other results.

- **Model**

  The mathematical rating model is based on maximizing the retrospective probability of the observed game results. Each outcome generates a "force" on the teams involved, attempting to push the winner above the loser. But as the algorithm adjusts the ratings to create an equilibrium, a ripple effect occurs throughout the entire network of teams. Opponents' opponents' opponents' … ad infinitum are influenced be some degree. By chains of interaction, it is possible to compare teams that are geographically dispersed.

- **Margin of Victory**

  Each game score is translated to a probability that the winner is really the better team. A narrow win might translate to 58%, while a blowout of gives 98%. The cap of 100% enforces diminishing returns to running up the score.

- **Pace**

  The model does not discriminate against styles of plat that result in fewer total points. In football for example, a team that typically wins games 24-10 may be considered more impressive than a team that wins 49-31 barnburners.

- **Strength of Schedule**

  Each team is measured by its performance relative to the opposition faced. Ratings are strength of schedule are calculated simultaneously so that schematically rating = performance + strength of schedule
  The model is able to accurately compare e.g. a team that went 9-1 against weak competition to a team that went 6-4 against a brutal schedule.

- **Mismatches**

  The model drives most of its information from games between teams of similar strength. Therefore, there should be no incentive to scheduling inferior opponents, since there is limited reward to winds and potentially large downside in the unlikely event of an upset. Regarding strength of schedule, it is more difficult for an elite team to face #2 and #100 than to face #39 and #40.

- **Head-to-Head**

  Sometimes lower ranked teams defeat higher ranked teams. These "upsets" are inevitable and should be tolerated since each team is rated according to its entire "body of work". A single head-to-head result is not always consistent with rankings derived as a best fit for the entire season.

- **Rating and Power**

  A team's rating is designed to reward the most impressive resumes, giving more credit to wins, regardless of how dominant they were. In contrast, the "Power" of a team is more indicative of the true strength of the team. The power of a team is broken in to offensive and defensive components, which can be combined to forecast typical scores for a given matchup, as well as the associated probabilities of winning.

- **Objectivity**

  All teams are treated equally and anonymously, without regard to name brands or affiliations. The computer can assess bad or mediocre teams just as well as the teams at the top.

Girls Water Polo Power Rankings 2023-2024

	Team	Rating 23-24	Division
1	LutheranOrange	9.4982	1
2	FoothillSanta Ana	9.0922	1
3	Newport Harbor	8.9918	1
4	Laguna Beach	8.964	1
5	Los Alamitos	8.9052	1
6	Mater Dei	8.7418	1
7	Corona Del Mar	8.6218	1
8	WilsonLong Beach	8.4396	1
9	Santa Margarita	8.4096	1
10	San Marcos	8.4016	1
11	HarvardWestlake	8.2064	1
12	King Martin Luther	8.0924	1
13	JSerra Catholic	8.0102	1
14	Oaks Christian	7.969	1
15	San Clemente	7.8738	1
16	Yucaipa	7.8632	1
17	Dos Pueblos	7.8272	1
18	El Segundo	7.6974	1
19	Schurr	7.607	1
20	Santa Barbara	7.5846	1
21	Millikan	7.5044	1
22	Huntington Beach	7.5004	1
23	Murrieta Valley	7.4662	1
24	Downey	7.4448	1

Girls Water Polo Power Rankings 2023-2024

	Team	Rating 23-24	Division
1	Agoura	7.4448	2
2	Sunny Hills	7.3364	2
3	Dana Hills	7.2242	2
4	Alta Loma	7.1866	2
5	Mira Costa	7.1748	2
6	CanyonAnaheim	7.1698	2
7	El Toro	7.1558	2
8	PolyRiverside	7.132	2
9	Woodbridge	7.1202	2
10	Ventura	7.0998	2
11	Bonita	6.9544	2
12	PolyLong Beach	6.941	2
13	Elsinore	6.8962	2
14	Beckman Arnold	6.888	2
15	Irvine	6.8562	2
16	Arlington	6.8062	2
17	Peninsula	6.7952	2
18	Notre DameSherman Oaks	6.7714	2
19	La Canada	6.7698	2
20	Edison	6.743	2

	Girls Water Polo Power Rankings 2023-2024		
	Team	**Rating 23-24**	Division
1	California	6.7116	3
2	La Serna	6.672	3
3	Glendora	6.6454	3
4	CentennialCorona	6.633	3
5	Temple City	6.6262	3
6	La Habra	6.6172	3
7	Flintridge Sacred Heart	6.5284	3
8	Xavier Prep	6.4624	3
9	Redondo Union	6.4566	3
10	University	6.4524	3
11	Costa Mesa	6.4488	3
12	Capistrano Valley	6.4356	3
13	Camarillo	6.4282	3
14	San Juan Hills	6.426	3
15	Marlborough	6.419	3
16	Buena Park	6.3872	3
17	Aliso Niguel	6.3858	3
18	Cypress	6.329	3
19	BurroughsBurbank	6.3248	3
20	Westlake	6.258	3
21	Portola	6.2532	3
22	Arcadia	6.1874	3
23	Fullerton	6.1478	3
24	Villa Park	6.1458	3
25	Claremont	6.1292	3
26	Villanova Prep	6.1014	3
27	Valley View	6.1002	3
28	Norco	6.0952	3
29	Temescal Canyon	6.0948	3
30	Palos Verdes	6.0938	3
31	Royal	6.064	3
32	Corona	6.0572	3
33	Vista Murrieta	6.0558	3
34	Chino Hills	6.0556	3
35	PolyPasadena	6.0402	3
36	Fountain Valley	6.0186	3
37	Rancho Cucamonga	6.016	3
38	Yorba Linda	6.0068	3
39	Roosevelt Eleanor	5.9534	3
40	San Dimas	5.9386	3
41	Brea Olinda	5.9364	3
42	West Torrance	5.9248	3

	Girls Water Polo Power Rankings 2023-2024		
	Team	**Rating 23-24**	**Division**
1	Los Osos	5.9234	4
2	Trabuco Hills	5.8752	4
3	Northwood	5.8694	4
4	Newbury Park	5.8138	4
5	Esperanza	5.7658	4
6	Great Oak	5.7594	4
7	Buena	5.7476	4
8	Culver City	5.7422	4
9	SantiagoCorona	5.7354	4
10	Rio Mesa	5.7258	4
11	South Pasadena	5.69	4
12	Rosary Academy	5.6444	4
13	Crescenta Valley	5.6306	4
14	Lakewood	5.6216	4
15	St JosephLakewood	5.5848	4
16	Murrieta Mesa	5.5814	4
17	Redlands	5.5796	4
18	Hemet	5.5722	4
19	La Salle	5.5694	4
20	Tesoro	5.5604	4
21	Garden Grove	5.519	4
22	St Lucys	5.5128	4
23	Citrus Valley	5.5074	4
24	Flintridge Prep	5.487	4
25	El Dorado	5.4492	4
26	Etiwanda	5.4462	4
27	Ayala Ruben	5.4314	4
28	Carpinteria	5.4288	4
29	Palm Desert	5.395	4
30	Santa Monica	5.3866	4
31	Upland	5.3752	4
32	Thousand Oaks	5.3498	4
33	Santa Ana	5.305	4
34	Fontana	5.3036	4
35	Marina	5.301	4
36	Rowland	5.3008	4
37	Whittier	5.2906	4
38	Temecula Valley	5.2554	4
39	Beaumont	5.252	4
40	Charter Oak	5.2492	4
41	Oxnard	5.2274	4
42	Glendale	5.2118	4

	Girls Water Polo Power Rankings 2023-2024		
	Team	**Rating 23-24**	**Division**
1	West Covina	5.2102	5
2	Ramona	5.207	5
3	Mission Viejo	5.2058	5
4	ValenciaPlacentia	5.178	5
5	Malibu	5.0838	5
6	HooverGlendale	5.034	5
7	Torrance	5.0252	5
8	Palm Springs	5.0206	5
9	Laguna Hills	5.0072	5
10	Santa Fe	4.9858	5
11	Chino	4.9648	5
12	Chaparral	4.924	5
13	Segerstrom	4.9202	5
14	Sonora	4.9034	5
15	Los AltosHacienda Heights	4.888	5
16	Nordhoff	4.8864	5
17	Louisville	4.8722	5
18	Warren	4.8708	5
19	Calabasas	4.859	5
20	Troy	4.8574	5
21	Muir	4.8312	5
22	Westminster	4.8032	5
23	La QuintaWestminster	4.7538	5
24	Walnut	4.7412	5
25	Mayfield	4.7318	5
26	North JW	4.7176	5
27	Hillcrest	4.7056	5
28	Rancho Alamitos	4.6762	5
29	Chadwick	4.6532	5
30	Summit	4.6424	5
31	Cajon	4.6394	5
32	Burbank	4.633	5
33	LakesideLake Elsinore	4.6292	5
34	Redlands East Valley	4.5868	5
35	Jurupa Valley	4.5836	5
36	Cerritos	4.5648	5
37	South Torrance	4.5506	5
38	Blair	4.5486	5
39	Paloma Valley	4.5134	5
40	Western	4.4436	5
41	Brentwood	4.423	5
42	Don Lugo	4.4	5
43	PacificaGarden Grove	4.3992	5
44	Montclair	4.3972	5
45	Savanna	4.3554	5

46	Diamond Bar	4.3454	5
47	Marymount	4.3014	5
48	Moorpark	4.2834	5
49	Santa Paula	4.2558	5

	Girls Water Polo Power Rankings 2023-2024		
	Team	**Rating 23-24**	**Division**
1	Pasadena	4.2322	6
2	Paramount	4.1664	6
3	Los Amigos	4.1412	6
4	El Modena	4.1268	6
5	San Marino	4.118	6
6	Notre DameRiverside	4.092	6
7	Colony	4.047	6
8	Westridge	4.0192	6
9	CabrilloLong Beach	3.9976	6
10	Indio	3.9858	6
11	West Valley	3.9652	6
12	Saddleback	3.9622	6
13	Webb	3.9364	6
14	La QuintaLa Quinta	3.9198	6
15	Godinez	3.914	6
16	Monrovia	3.8718	6
17	Montebello	3.8684	6
18	Tahquitz	3.865	6
19	Tustin	3.843	6
20	Foothill Technology	3.8182	6
21	Cate	3.8112	6
22	Chaffey	3.7682	6
23	Norte Vista	3.729	6
24	Edgewood	3.7068	6
25	Patriot	3.6958	6
26	El Rancho	3.6508	6
27	Moreno Valley	3.5516	6
28	Estancia	3.5282	6
29	Ontario	3.5164	6
30	Shadow Hills	3.4758	6
31	Whitney	3.4616	6
32	Bell Gardens	3.4308	6
33	Bolsa Grande	3.3916	6
34	Ocean View	3.385	6
35	La Sierra	3.3792	6
36	Channel Islands	3.3068	6
37	Anaheim	3.2778	6
38	Beverly Hills	3.2756	6
39	Banning	3.275	6
40	Hueneme	3.269	6
41	Carter	3.2566	6
42	Santa Ana Valley	3.2468	6
43	Rancho Mirage	3.2464	6
44	San Gorgonio	3.1752	6

45	Sierra Vista	**3.1618**	6
46	Cathedral City	**3.0014**	6
47	PacificaOxnard	**2.907**	6
48	AlhambraAlhambra	**2.885**	6
49	La Mirada	**2.8846**	6
50	Katella	**2.8222**	6
51	WilsonHacienda Heights	**2.7852**	6
52	San Bernardino	**2.7756**	6
53	Pioneer	**2.7534**	6
54	Pacific	**2.7322**	6
55	KennedyLa Palma	**2.714**	6
56	Gahr	**2.6762**	6
57	Jordan	**2.6678**	6
58	Orange	**2.5984**	6
59	Eisenhower	**2.583**	6
60	Heritage	**2.5644**	6
61	Canyon Springs	**2.5632**	6
62	Granite HillsApple Valley	**2.5078**	6
63	Workman	**2.3506**	6
64	Loara	**2.3362**	6
65	Baldwin Park	**2.1806**	6
66	San Jacinto	**1.7376**	6
67	Indian Springs	**1.6392**	6
	Crean Lutheran	**TBD**	**TBD**
	Fillmore	**TBD**	**TBD**
	Liberty/Winchester	**TBD**	**TBD**
	North Torrance	**TBD**	**TBD**
	Sacred HeartLos Angeles	**TBD**	**TBD**