



July 26, 2021

RE: Boys' Water Polo Playoff Groupings

Playoff groupings will remain the same for the 21-22 school year with one small adjustment in place for the upcoming seasons.

In years past, we offered Divisions 1, 2, 3, 4, 5, 6, and 7 respectively. There were seven divisions total. New for this year, the divisions will be referred to as "Open", Division 1, Division 2, Division 3, Division 4, Division 5, and Division 6; still seven divisions, just renamed. A team previously called Division 7 is now called Division 6; the teams within remain the same. Teams previously named Division 6 are now named Division 5, etc.

No schools were moved up a division.

In a model where an "Open" division exists, teams can qualify for "Open" from any numerical division should their strength warrant such a move. There is more freedom in seeding an 8-team bracket without the restrictions of league affiliation and place that can greatly alter seeding. By reorganizing divisional reference, the Advisory Committee was able to accomplish some goals in line with what basketball and other sports are doing.

I appreciate your attention to these details and hope this information is clear to everyone. If you have questions, please do not hesitate.

Sincerely,

A handwritten signature in black ink that reads "Kristine Dalle".

Kristine Dalle M.Ed.
CIF Southern Section
Assistant Commissioner

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 by 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 of 27-24 might translate to 58%, while a blowout of 45-14 gives 98%. The cap of 100% enforces diminishing returns to running up the score.

- **Pace**

The model does not discriminate against styles of play 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 and strength of schedule are calculated simultaneously so that schematically

$$\text{rating} = \text{performance} + \text{strength of schedule}$$

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 derives 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 wins and potentially large downside in the unlikely event of an upset. With regard to 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.

- **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.

- **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.

BOYS WATER POLO PLAYOFF GROUPINGS 21-22

DIVISION 1	Team	Power 18	Power 19	New (20%/80%)
	Beckman	10.7915439	12.5629372	12.20865854
	Corona Del Mar	15.7346401	16.1569933	16.07252266
	Damien	10.3060355	11.1775213	11.00322414
	Dana Hills	11.2021531	13.7100446	13.2084663
	Dos Pueblos	12.4030689	11.2354152	11.46894594
	FoothillSanta Ana	16.4091205	17.5312913	17.30685714
	HarvardWestlake	17.6210944	22.6354974	21.6326168
	Huntington Beach	17.5220072	20.0209507	19.521162
	JSerra	1.3609743	14.5718931	11.92970934
	Laguna Beach	14.2881546	15.7128811	15.4279358
	Los Alamitos	12.2001707	15.3637387	14.7310251
	Los Osos	9.5739371	14.2741635	13.33411822
	Loyola	18.0173271	21.454487	20.76705502
	LutheranOrange	20.9671666	18.3885557	18.90427788
	Mater Dei	21.9462485	18.3784711	19.09202658
	Mira Costa	11.9604228	15.3466296	14.66938824
	Newport Harbor	18.9679369	21.3585088	20.88039442
	Northwood	9.9824436	12.2772236	11.8182676
	Oaks Christian	18.3242557	19.0695265	18.92047234
Palos Verdes	11.8974942	17.0359243	16.00823828	
PolyRiverside	10.8671836	13.0127167	12.58361008	
Redondo Union	8.6967563	13.2620409	12.34898398	
San Clemente	11.5538353	18.3936888	17.0257181	
Santa Barbara	8.3887496	13.2425422	12.27178368	
Santa Margarita	18.5212894	19.690335	19.45652588	
Servite	9.9635838	12.0236914	11.61166988	
WilsonLong Beach	9.5463368	15.2674883	14.123258	
Woodbridge	13.2058729	16.905002	16.16517618	

The newly formed "Open" Division will be the top 8 teams (selected by committee) and may come from teams in any division.

BOYS WATER POLO PLAYOFF GROUPINGS 21-22

DIVISION 2	Team	Power 18	Power 19	New (20%/80%)
	Agoura	14.2163004	9.2807602	10.26786824
	Aliso Niguel	12.2994197	7.32306	8.31833194
	Arlington	6.0310431	6.0863764	6.07530974
	Brentwood	-1.3396425	9.7645367	7.54370086
	Capistrano Valley	3.8768292	6.8453232	6.2516244
	Chadwick	1.1718601	7.8810193	6.53918746
	Costa Mesa	8.1084909	9.0993065	8.90114338
	Edison	6.3093016	8.4906138	8.05435136
	El Dorado	-2.5618944	8.310777	6.13624272
	El Segundo	8.0434535	8.7623511	8.61857158
	El Toro	5.9345343	10.4722883	9.5647375
	Esperanza	5.3531527	6.1686812	6.0055755
	Irvine	2.5302928	7.8862434	6.81505328
	King Martin Luther	1.3352635	7.2306126	6.05154278
	La Serna	12.6393428	9.4478645	10.08616016
	Murrieta Valley	11.8829121	5.0784072	6.43930818
	Newbury Park	6.4430129	6.6736701	6.62753866
	Notre Dame/S. Oaks	8.2487691	11.6183885	10.94446462
	Pacifica/Garden Grove	4.4422835	9.8279883	8.75084734
Redlands East Valley	14.0931144	10.1330809	10.9250876	
Rio Mesa	7.2508192	5.9990546	6.24940752	
San Juan Hills	5.722439	11.5689134	10.39961852	
San Marcos	6.8686534	8.1839042	7.92085404	
Santa Ynez	9.7566168	6.8129748	7.4017032	
SantiagoCorona	6.7952063	9.1229931	8.65743574	
Schurr	3.5758861	11.9977283	10.31335986	
South Pasadena	6.5549648	9.6512884	9.03202368	
Temple City	7.528376	6.423724	6.6446544	
Tesoro	6.4937562	6.3246881	6.35850172	
University	2.2245876	8.6079041	7.3312408	
Ventura	11.1102919	9.4309485	9.76681718	
Villa Park	10.0940807	7.8948812	8.3347211	
Westlake	7.3885475	10.5104604	9.88607782	
Yorba Linda	6.7807299	9.8992119	9.2755155	

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BOYS WATER POLO PLAYOFF GROUPINGS 21-22

DIVISION 3	Team	Power 18	Power 19	New (20%/80%)
	Alta Loma	5.456666	4.0382556	4.32193768
	Arcadia	2.4972321	2.4501286	2.4595493
	Bonita	5.7543101	2.2812692	2.97587738
	Brea Olinda	-2.736737	4.8628829	3.34295892
	BurroughsBurbank	5.3686269	2.863221	3.36430218
	Cajon	1.3782682	3.2152562	2.8478586
	California	2.375992	4.0550771	3.71926008
	CanyonAnaheim	1.2619235	3.0445082	2.68799126
	Chino Hills	7.1251092	4.786408	5.25414824
	Claremont	2.9773593	5.6619568	5.1250373
	Diamond Bar	1.253972	2.2856803	2.07933864
	Flintridge Prep	4.3792722	5.3398903	5.14776668
	Glendora	3.0889949	5.6861309	5.1667037
	Great Oak	-0.310806	2.6292734	2.04125752
	HooverGlendale	6.1471676	3.6178791	4.1237368
	La Habra	4.8469839	5.2121438	5.13911182
	Millikan	3.0179488	6.0233275	5.42225176
	Mission Viejo	-1.0670691	6.6406873	5.09913602
	Montebello	7.0849285	1.7965505	2.8542261
	Palm Desert	-8.5432093	6.6133386	3.58202902
	Peninsula	7.4174511	2.6751445	3.62360582
	Rancho Cucamonga	3.3207776	5.0241239	4.68345464
	Roosevelt Eleanor	-1.185157	4.9823024	3.74881052
	San Marino	5.9904376	4.7656166	5.0105808
	Santa Monica	5.5576709	5.6364952	5.62073034
	Segerstrom	5.8240297	3.5401	3.99688594
St Francis	-2.7499692	7.0274085	5.07193296	
Temescal Canyon	6.5558724	3.7421768	4.30491592	
Thousand Oaks	1.4424885	6.8328276	5.75475978	
Trabuco Hills	-4.1313046	6.2338616	4.16082836	
Troy	6.3647855	5.4649269	5.64489862	
Walnut	8.2744181	3.861952	4.74444522	
Yucaipa	4.5357163	6.3315633	5.9723939	

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BOYS WATER POLO PLAYOFF GROUPINGS 21-22

DIVISION 4	Team	Power 18	Power 19	New (20%/80%)
	Alemanya	1.1747057	-0.8231352	-0.42356702
	Ayala Ruben	10.534729	-0.871969	1.4093706
	Beaumont	2.4223804	1.5314566	1.70964136
	Buena Park	3.2947048	-0.1742414	0.51954784
	CabrilloLompoc	0.9651979	-0.1752807	0.05281502
	Camarillo	0.0542975	1.5015274	1.21208142
	Cerritos	5.031142	-0.6833345	0.4595608
	Chaparral	4.8493436	1.2567589	1.97527584
	Corona	5.7853383	1.0299422	1.98102142
	Crescenta Valley	7.2291211	-0.097277	1.36800262
	Crespi	-8.7916288	2.9294649	0.58524616
	Culver City	-4.4403261	2.0804204	0.7762711
	Don Lugo	5.0734173	0.3634441	1.30543874
	El Modena	-1.0005347	0.3281959	0.06244978
	Elsinore	0.2597434	2.1054017	1.73627004
	Estancia	-5.3190782	1.2043992	-0.10029628
	Foothill Technology	1.8021042	0.9889485	1.15157964
	Fullerton	2.2687479	1.4998979	1.6536679
	Glendale	-0.3254059	2.0011752	1.53585898
	KennedyLa Palma	-1.6851148	2.9131608	1.99350568
	La Canada	1.1989875	-1.070806	-0.6168473
	Laguna Hills	2.2613194	1.5675355	1.70629228
	Los Altos/Hac. Heights	0.1941013	-1.2060331	-0.92600622
	Malibu	8.318402	-1.8009492	0.22292104
	Marina	0.0924706	-0.1780729	-0.1239642
	Moorpark	5.9877046	0.5429467	1.63189828
	PolyLong Beach	-0.5780557	0.9063503	0.6094691
	PolyPasadena	0.5161763	1.2997442	1.14303062
	Portola	-5.0580996	0.4466137	-0.65432896
	Redlands	-5.749377	0.6546737	-0.62613644
	San Dimas	1.5487443	1.3442308	1.3851335
Sonora	4.0701139	0.6584054	1.3407471	
St John Bosco	-1.090811	0.2567664	-0.01274908	
Sunny Hills	3.8157126	-1.7201781	-0.61299996	
Temecula Valley	0.997767	1.755997	1.604351	
Upland	4.1790707	1.163215	1.76638614	
ValenciaPlacentia	-2.9274704	-0.3797583	-0.88930072	
Vista Murrieta	7.1644631	-0.7740926	0.81361854	
Xavier Prep	2.5843642	-0.597085	0.03920484	

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DIVISION 5	Team	Power 18	Power 19	New (20%/80%)
	Baldwin Park	-7.7976153	-1.419599	-2.69520226
	Beverly Hills	-2.4948635	-7.0746721	-6.15871038
	Buena	-2.4749574	-1.4290405	-1.63822388
	Burbank	-2.9008684	-3.5270698	-3.40182952
	Calabasas	-2.3779501	-5.9150062	-5.20759498
	Carpinteria	2.2910265	-3.1687467	-2.07679206
	Cate	-0.8798198	-9.1849113	-7.523893
	Cathedral	-10.278506	-3.8592799	-5.14312508
	CentennialCorona	-7.7036853	-6.2821594	-6.56646458
	Charter Oak	-5.2697376	-8.4727322	-7.83213328
	Chino	2.9903144	-9.5186609	-7.01686584
	Citrus Valley	-1.8044707	-1.1007837	-1.2415211
	Colony	-5.6693667	-6.8474116	-6.61180262
	Cypress	1.0366427	-5.9039518	-4.5158329
	Downey	-3.6920089	-2.3966816	-2.65574706
	El Rancho	-1.2779121	-3.8294263	-3.31912346
	Etiwanda	-2.1449317	-1.1910182	-1.3818009
	Fontana	-4.156443	-8.2617508	-7.44068924
	Fountain Valley	2.4855426	-6.8489016	-4.98201276
	Garden Grove	-4.8191454	-3.4848735	-3.75172788
	Hemet	-1.6591948	-5.0737562	-4.39084392
	Katella	-3.7060265	-4.7677684	-4.55542002
	La QuintaLa Quinta	8.082205	-7.1234852	-4.08234716
	La Salle	-6.154816	-4.7499386	-5.03091408
La Sierra	-2.2302678	-1.4160359	-1.57888228	
Los Amigos	-6.4348327	-7.3801293	-7.19106998	
Monrovia	1.8941847	-6.7571445	-5.02687866	
Murrieta Mesa	4.1186542	-6.246174	-4.17320836	
Norco	-7.1980542	-4.4588027	-5.006653	
Nordhoff	1.1422154	-7.5063812	-5.77666188	
North JW	-0.5134011	-1.8780114	-1.60508934	
Ontario	-14.040016	-6.1784425	-7.75075726	
Oxnard	-5.7107904	-4.1970024	-4.49976	
PacificaOxnard	-8.167375	-4.780369	-5.4577702	
Palm Springs	-5.8781652	-5.4314638	-5.52080408	
Paramount	-7.4609345	-6.6790047	-6.83539066	
Pasadena	-1.8127313	-8.8518604	-7.44403458	
Pioneer	-5.1688319	-6.5349246	-6.26170606	
Ramona	-4.3214211	-3.7526375	-3.86639422	
Rancho Mirage	-15.146359	-2.976796	-5.4107085	
Rowland	0.2381799	-7.1152875	-5.64459402	
Royal	4.0441861	-6.3730141	-4.28957406	
Sage Hill	4.2268251	-3.7552616	-2.15884426	
Savanna	-6.0636275	-8.1788768	-7.75582694	
South Torrance	-7.4478677	-1.661903	-2.81909594	

Team	Power 18	Power 19	New (20%/80%)
South Torrance	-7.4478677	-1.661903	-2.81909594
Torrance	-5.8197039	-4.3784976	-4.66673886
Tustin	-2.2685114	-3.9366249	-3.6030022
Valley View	-1.431147	-2.9139328	-2.61737564
Villanova Prep	-1.2352116	-8.3673224	-6.94090024
Warren	-7.9585891	-4.6610238	-5.32053686
Webb	0.0102894	-7.7428937	-6.19225708
West Torrance	-7.280782	-2.7524805	-3.6581408
Western	-9.7719462	-5.5174468	-6.36834668
Whittier	-3.2223676	-2.3949249	-2.56041344
Wilson/Hac. Heights	-5.0286404	-7.398611	-6.92461688

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BOYS WATER POLO PLAYOFF GROUPINGS 21-22

DIVISION 6

Team	Power 18	Power 19	New (20%/80%)
Alhambra	-19.231985	-13.84156	-14.91964526
Arroyo Valley	-8.4042112	-14.364329	-13.17230528
Artesia	-28.376788	-18.797347	-20.71323502
Bell Gardens	-14.909046	-12.791951	-13.21537006
Bolsa Grande	-15.67863	-23.369873	-21.83162406
CabrilloLong Beach	-8.7406663	-10.31638	-10.0012371
Canyon Springs	-9.9051529	-15.801813	-14.62248058
Cathedral City	-16.970031	-15.965733	-16.16659262
Chaffey	-3.4371875	-9.3523588	-8.16932454
Channel Islands	-19.004732	-16.892284	-17.3147735
Crean Lutheran	-17.758311	-10.349658	-11.83138894
Edgewood	-18.816881	-28.302026	-26.40499712
Eisenhower	-14.816912	-22.734777	-21.15120436
Gahr	-14.110209	-11.878716	-12.32501488
Godinez	-10.078759	-14.798761	-13.85476042
Granite Hills/Apple Val	-9.3470556	-16.700139	-15.22952216
Heritage	-9.7712039	-9.8207343	-9.81082822
Hillcrest	-3.2925121	-10.704251	-9.22190354
Hueneme	-12.299194	-17.846388	-16.7369488
Indian Springs	-21.976386	-22.319539	-22.25090862
Indio	-18.096949	-20.252664	-19.82152082
Jordan	-10.145568	-11.192795	-10.98334984
Jurupa Valley	-11.964282	-10.348128	-10.67135854
La Mirada	-5.0864465	-12.032008	-10.6428957
La Quinta/Westminster	-9.4397264	-10.072523	-9.94596344
Lakeside/Lake Elsinore	-7.5790933	-9.2861364	-8.94472778
Lakewood	-5.3972167	-10.330268	-9.34365766
Loara	-18.016555	-19.289559	-19.03495778
Lompoc	-4.0279564	-11.4079	-9.93191096
Magnolia	-17.199177	-15.296792	-15.67726862
Mark Keppel	-14.141836	-7.9840078	-9.21557346
Milken Community	-10.653597	-7.4099863	-8.0587085
Montclair	-12.533154	-18.001905	-16.90815432
Moreno Valley	-13.348603	-13.371541	-13.3669532
Norte Vista	-21.087022	-11.563481	-13.46818876
North Torrance	-15.318305	-12.505566	-13.06811386
Notre DameRiverside	-11.731118	-15.173783	-14.48524954
Ocean View	1.9150112	-10.959562	-8.38464768
Orange	-17.889925	-18.347801	-18.25622564
Pacific	-14.030063	-25.312931	-23.05635708
Paloma Valley	-10.0915	-8.2575933	-8.6243746
Patriot	-12.465308	-15.10458	-14.5767251
Perris	-15.202898	-21.456052	-20.2054212
Rancho Alamitos	-14.17571	-11.956984	-12.40072936

Team	Power 18	Power 19	New (20%/80%)
Saddleback	-15.179617	-19.54877	-18.67493918
San Bernardino	-6.9194143	-13.398292	-12.1025167
San Geronio	-12.890349	-13.73741	-13.56799818
Santa Ana	-11.849577	-9.9885761	-10.36077618
Santa Ana Valley	-12.758835	-12.459444	-12.5193223
Santa Fe	-16.488518	-10.633188	-11.80425372
Shadow Hills	-5.3895667	-13.058758	-11.5249199
Sierra Vista	-9.6111503	-13.037218	-12.35200438
Summit	-12.353519	-18.141658	-16.98403044
Tahquitz	-9.4052458	-9.8158239	-9.73370828
West Covina	-13.13113	-21.804201	-20.06958674
Westminster	-17.203482	-14.683666	-15.18762912
Whitney	-17.005276	-8.0440191	-9.83627044
Workman	-25.365548	-23.980085	-24.25717724

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