



Laxnumbers' FAQ – Oregon Girls Lacrosse Association

General Info & Questions:

Question 1: How can I sign up for a 2025 team official account?

New head coaches or head coaches without an existing Laxnumbers' team official account will need to sign up and create a one [here](#). Head coaches with an existing team official account can simply [login](#) using their username and password from last season. Head coaches with existing team official accounts will be asked to select their (new) team for the 2025 season.

Question 2: What can I do with a team official account?

Once you have created an account, the team official portal will act as your home base in Laxnumbers. Team officials can add, edit, and delete scheduled and played games. Laxnumbers' staff would greatly appreciate it if team officials added all games including out of state and tournament game results as well for national and regional ranking purposes. Team officials can also update team info and add team websites and social media accounts. There is "User Guide" at the top of the team official portal with more tips and hints!

Question 3: I noticed an error. How can I fix an incorrect game result or scheduled game?

Team officials can fix an incorrect game result or scheduled game through their team official portal. Non-team officials can click the red checkmark in the "Fix" column next to the game result or scheduled game to submit a game score correction request if a game result or scheduled game is listed incorrectly.

Question 4: Do you have any tips to help users navigate the public site?

Here are a couple hints to give you the full power of Laxnumbers. Any team name is clickable and will take you to that team's team info page and game results. On the team info page, all

ranking categories, state rankings, groups and divisions/conferences are also clickable. When viewing scores, each opponent's team info page is just a click away. For example, if you are viewing the game scores of Team X and they played Team Y, you can view Team Y's game scores by simply clicking on Team Y's name. Teams with websites or social media accounts linked in Laxnumbers will have a corresponding icon in the last column of the rankings. Simply click the corresponding icon to view their team website or social media pages.

Rankings & Algorithm Questions:

Question 1: What teams are ranked?

Laxnumbers ranks all varsity Boy's and Girl's high school lacrosse teams in the United States. Teams recognized as JV, Freshmen or middle school teams are not included in the rankings. For OGLA purposes, girls' varsity teams will be included in the Oregon rankings.

Question 2: How does Laxnumbers compute its ratings?

Like Laxpower's power rating algorithm, Laxnumbers' ratings are mathematically computed based on game results in the system with no subjective weighting or human input. All counting games count equally. Laxnumbers' algorithm computes an overall average performance rating for teams based upon how well they play against other teams and how good those teams are. A team's overall rating then determines a team's ranking position based on the national, regional, state, and/or sub-state ranking categories a team is placed in. A team's overall rating is typically not reflective of the team's best or worst games, but a mathematically computed average performance rating that translates game results into a numeric representation of a team's performance.

Question 3: What do the columns on the rankings page mean?

"Record" is represented by wins-losses-ties. "AGD", or average goal differential, and "SCHED", or strength of schedule plus sportsmanship differential, are the two main factors in the algorithm. AGD is currently calculated by accumulating the goal differential of each game, to a maximum of 10, and dividing it by the number of games played. SCHED is computed by adding the average rating of each game opponent (OPP) and sportsmanship differential (SD). AGD and SCHED are then added together to compute a team's overall performance rating. More information on an individual team's AGD and SCHED can be found by clicking the "Rating Math" tab on their team info page once the rankings are turned live.

Question 4: What does a team's overall rating mean?

Everything is relative. A team's overall rating number specifically means nothing but might be used to understand the relative competitiveness of two different teams. In Laxnumbers' algorithm, a 1.0 point differential between two teams equates to a theoretical goal 1.0 goal advantage for the higher ranked team. If Team A is rated 85.00 and Team B is rated 80.00, then Team A would be expected to win by 5 goals in a matchup. The "Rating Math" tab on each team's team info page breaks down how each performance impacted a team on a game-by-game basis.

Question 5: Does Laxnumbers use a maximum goal differential?

Yes, Laxnumbers uses a maximum goal differential of 10. Based on our conversations with partners across the country, we strongly believe a 10 goal maximum strikes the right balance between promoting good sportsmanship and a fun playing environment on the field and producing accurate and credible rankings. There is one small caveat. Certain games may be subject to a "sportsmanship differential".

Question 6: What is the "sportsmanship differential" and what is the impact?

In scenarios where two teams are more than 10 rating points apart AND the higher ranked team wins by at least 10 goals, the "sportsmanship differential" will come into play. For math calculation purposes, the game will be considered "non-counting" in Laxnumbers to avoid negatively impacting the higher ranked team in that scenario. If the teams are more than 10 rating points apart AND the higher ranked team does not win by 10 or more goals, the game will count towards the rankings like normal. While it is important the higher ranked team is not negatively impacted in a scenario like that, it is also important the lower ranked team is rewarded if they outperform expectations. Games between teams less than 10 rating points apart will always be considered a counting game in Laxnumbers.

Question 7: We beat Team X. How can they still be ranked ahead of us?

At the end of the season, virtually every team has beaten at least one team ranked ahead of them in the rankings and lost to at least one team ranked behind them in the rankings. Yes, it may seem wrong, but a team that you have a winning record against can be ranked ahead of you. It is all in the mathematics. It depends on who else your team has played and how well you did as well as who the other team has played and how well they did. Over the course of the season there will be some anomalies. Sometimes a team simply matches up well against an opponent but has not necessarily performed better than them over a whole season's body of work.

Question 8: We won our last game, but our rating went down. How does this happen?

A team's overall performance rating can go down even though a team wins. This can happen for a couple different reasons. First, if your team is rated 3.0 points (1 point = 1 goal) better than your opponent and you win a game by 1 goal, your average goal differential (AGD) for the game is +1.0 against a team that it was expected to be +3.0. This would likely have a negative impact on your rating. Another scenario has you doing as expected against your opponent, but a large percentage of the teams you played earlier in the season doing unexpectedly bad. This lowers your strength of schedule and would lower your team's rating. It is almost impossible to guess how much and in what direction your rating will move each update because of the complexity of the math. Laxnumbers has a "Rating Math" tab on each team's info page that explains the math behind each game result and if it positively or negatively impacted a team.

Question 9: Are some teams, states or geographic areas given preferential treatment?

No. Laxnumbers does not give preferential treatment to any specific teams, states, or geographic areas. All teams are assumed to be equal and having a rating of zero at the start of the season before the system mathematically calculates your SCHED and AGD based entirely upon game performance. A team's SCHED is not only determined by the teams it plays, but by the teams its opponents play, and its opponents' opponents play, etc. All teams in a given age level and gender (i.e. Boys High School) are ranked in one statistical pool. The algorithm does not know what state or area a team is from or any of the team's past historical ratings. It simply uses current season game results to compute an average performance rating based upon who a team has played (SCHED) and how well they have done (AGD) for the games recorded in the system.

Question 10: How accurate are the rankings?

Early in the season when there are few played games, the limited data in the system can output funky results. When we first release the rankings as most teams hit the 4-6 game mark, the rankings are still working themselves out. As most teams start getting 8-10 games under their belts, the accuracy of the rankings improves exponentially. It only continues to get more accurate as more games are entered into the system. There are, however, some occasional exceptions.

If a group of teams (i.e. group or conference/division) doesn't play teams outside its initial subset, their overall rating and ranking placement relative to all other teams cannot be accurately determined. Their rating and ranking placement relative to one another within the subset is still accurate, however. Groups of teams with limited outside play can be inaccurately skewed by the few game results connecting them to all other teams, which might not be representative of the group's overall ability. Accuracy significantly increases with more games

and more interplay. Therefore, it makes sense for there to be a minimum number of games before teams are ranked which is why we do not release the rankings until most teams in the ranking category have hit the 4-6 game mark.

Assuming teams have all played enough games against conference and non-conference teams, inaccuracies may still exist. This is common in ranking systems. Some teams play differently (a lot differently) depending upon which goalie is in net for a specific game. In this case, the ratings average out the play and may not completely reflect either scenario. Missing players, home vs. away, suspensions, and double rostered players are a few other scenarios that could influence the accuracy of the ratings. It is not always an exact science due to many moving parts.

Like any rankings algorithm, there are a couple weaknesses to the Laxnumbers' system. The first deficiency is with teams that emphasize development in some games. Teams that focus on development can be "hurt" because their performance tends to be lower than their true playing capability if they played to their full potential in some games. That same team may then focus on winning conference, league, district, and state tournaments, and succeed in their goal because they have fostered player development over the course of the season. However, they may never achieve the high rating and ranking placement that they truly "deserve". Secondly, teams that are hot in the second half of the season are still negatively impacted by poor performances early in the season. Vice versa is true for teams that start out hot and go "cold" in the second half of the season. Since all games throughout the season count equally, a team's overall rating may not always reflect a team's true playing ability near the end of the season.

That being said, the algorithm accurately computes an objective average performance rating for all teams based on the game results in the system.

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