QRF Explained

The Quality Results Formula (QRF) was created to try and rank teams from different parts of the state. Here is an idea of how it works.

Each game is given an individual QRF (iQRF) based three things (listed in order of importance)

- Win or Loss
- Opponent wins
- Class differential between the teams

Logically, the more wins an opponent has, the higher your opponent's Class is, the higher your iQRF is for that game.

When all of a team's iQRF's are added together and divided by the number of ND games played, you come up with a team's QRF.

This number is then compared to other teams in the state to come up with an overall ranking. The QRF ranking should only be used to compare teams within the same Class. Cross-Class comparisons are not comparing apples to apples.

FAQ

What does the QRF stand for?

- **Q**uality **R**esults **F**ormula

What is the formula/concept?

- If you win:
    - X points for winning the game based on opponent Class
    - Y points times number of opponent wins based on opponent s opponents Class
- If you lose:
    - Y/3 points times number of opponent wins based on opponent s opponents Class
- X + Y = iQRF (individual QRF)
    - This calculation happens for every game, then the iQRF is averaged out for all your games played to date to produce the QRF number you see online.
- Once the average QRF is determined, it is compared to the average QRF of every other team in the State and put into ranking order.
- **The margin of victory/defeat is NOT part of the equation.**

Why did my QRF number go down after winning?

- Because the QRF is an AVERAGE of games played, it is not a CUMULATIVE number. Take this example:
    - A student takes 7 tests and has earned a total of 350 points. His/her average score is 50.
    - The student takes an 8th test and earns only 10 points (similar to beating a poor opponent) to bring the cumulative total to 360. Now the students average per test is 45 (360/8).
- Usually this is masked in the QRF because you are still earning points from previous opponents, but there are times where the new average will still be lower than the previous day.
- This is essentially because your strength of schedule has been lowered after playing a poor team. But don't think you are getting slighted, most likely this has either already happened or will happen to the other teams you are competing against.

If I schedule/play fewer games than another team, that hurts my QRF ranking, correct?

- This is false. Going with the student test analogy again.... if one student in your class takes 20 tests and another student takes 25, does either one have an advantage in getting a better grade? The answer is - it depends on how they do on the tests, not how many tests they take. We have the minimum in place, so teams are playing a similar number of games, not so they play the same number of games. As stated earlier the QRF is an AVERAGE, not a CUMULATIVE **so there is not a disadvantage to playing fewer games** than another team.

How should I schedule my games if I don't know what value each opponent is worth?

- This one comes in a lot. "Should I schedule a "good" AA team I know I am going to lose to or a "bad" A team I know I am going to beat". The answer is easy, it doesn't matter.   Your team is who they are, and the QRF will find you either way – if you are a middle of the road team you are going to beat some good teams you shouldn't and lose to teams you shouldn't. Teams that play better teams and lose generally have about the same QRF as teams that play poorer teams and win. The QRF will find you either way you go.
- Best answer is this. You will have the best QRF you can have if you play the best teams you can beat and beat them.

How are forfeits handled?

Forfeits are ignored for all sports. The QRF (and seeding) is an attempt to apply on the field results into a point value and possibly a seed. Any game that is forfeited is ignored in the calculation AND in the Tiebreaker Margin for Conference/Overall/Section Percentages.

Why isn't there a QRF yet?

Usually because there isn't enough data to make it relevant. It's based completely on results, so the more results the better the rankings. You can expect the first QRF to show about 30% of the way through a particular season.   When in doubt, look at the top of the QRF Rankings page. It should have a date showing the first time it will be calculated.