

Swim Meet Simulation Report

Based on 670 Monte Carlo simulations across 65 teams.

Methodology

The simulator uses seed times from the state performance list, event assignments (up to 2 individual events per swimmer, plus relays), and a Markov-style performance state (Good/Average/Bad) with team momentum. Each simulation samples swim times and ranks finishers to compute team points; win and podium probabilities are estimated from the fraction of simulations in which each team placed 1st or top 3.

Team Summary (Mean, Std, Min, Max, Win %)

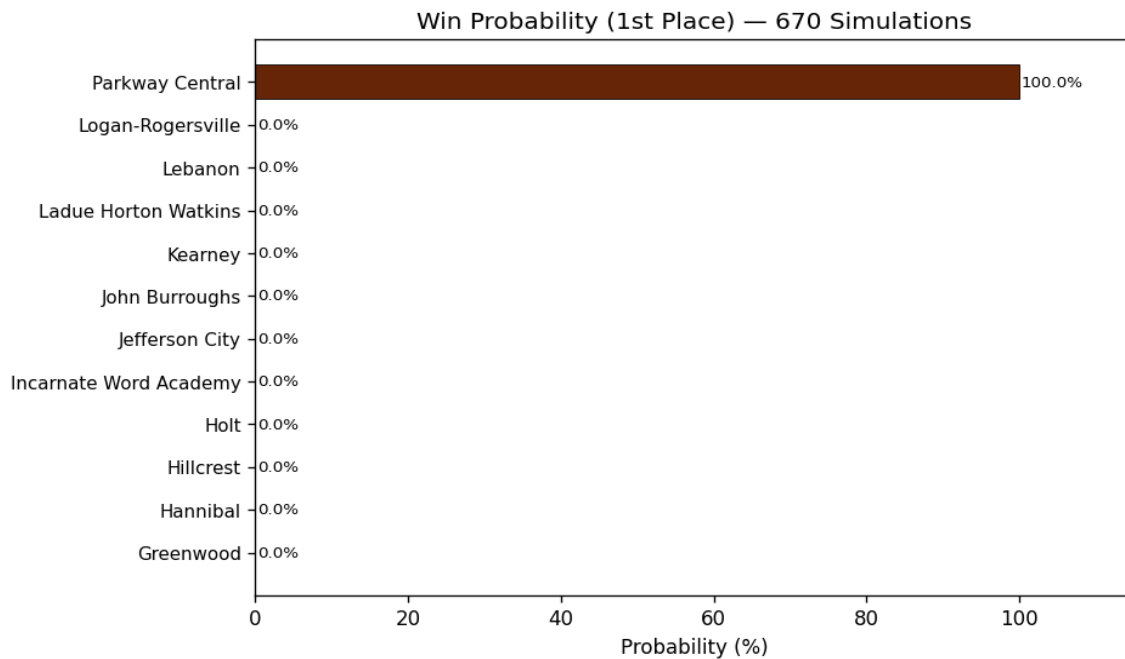
team	mean	std	min	max	win_probability_%
Parkway Central	239.2	11.0	182	273	100.0
Visitation Academy	178.0	8.8	146	216	0.0
St. Teresa's Academy	172.3	11.2	127	204	0.0
Father Tolton	155.6	11.2	102	198	0.0
Webster Groves	152.4	12.3	111	185	0.0
Villa Duchesne	148.5	11.5	108	186	0.0
Rockwood Summit	100.8	12.3	65	146	0.0
John Burroughs	100.6	14.0	47	144	0.0
Notre Dame de Sion	100.0	13.2	62	137	0.0
Parkway West	91.9	11.8	56	125	0.0
Grain Valley	82.1	13.0	36	119	0.0
Louisiana	74.9	11.5	36	118	0.0
St. Michael the Archangel	71.0	13.3	34	118	0.0
Ladue Horton Watkins	66.8	12.9	37	117	0.0
Nerinx Hall	62.0	10.4	34	95	0.0

Podium Probability (Top 3 Finish)

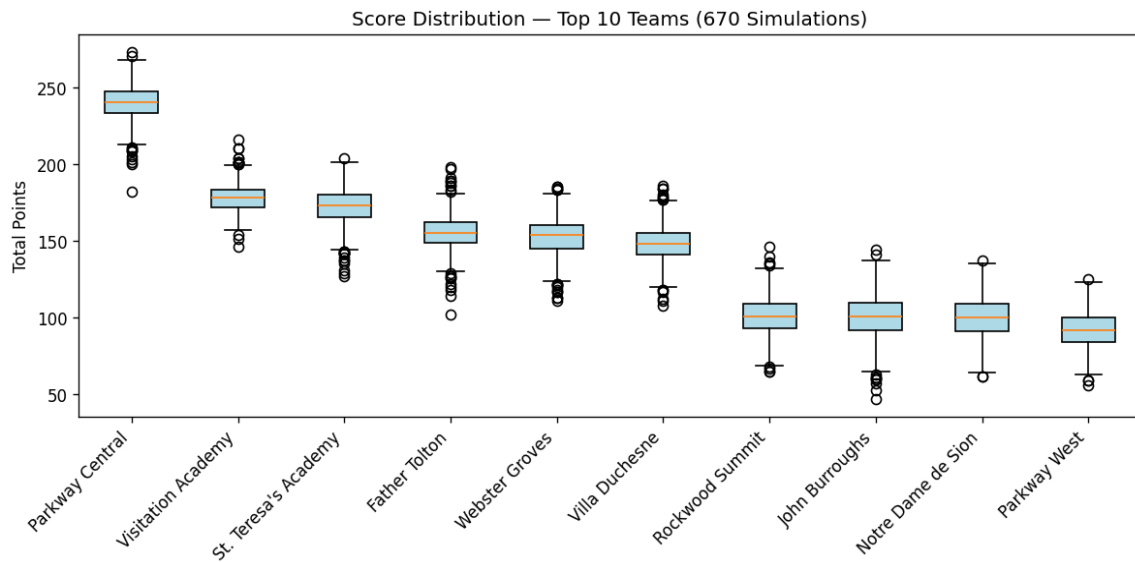
team	podium_probability	avg_rank
Parkway Central	1.0	1.0
Visitation Academy	0.945	2.451

team	podium_probability	avg_rank
St. Teresa's Academy	0.797	2.945
Father Tolton	0.14	4.501
Webster Groves	0.094	4.796
Villa Duchesne	0.055	5.167
Rockwood Summit	0.0	8.585
Principia	0.0	34.816
Poplar Bluff	0.0	39.334
Platte County	0.0	37.269
Parkway West	0.0	9.701
Barstow	0.0	42.052

Win Probability (1st Place)



Score Distribution (Top 10 Teams)



Analysis & Commentary

Based on 670 simulated meets, **Parkway Central** is the clear favorite, winning approximately **100.0%** of simulations with an average total score of **239.2 points**. The model reflects seed times, event assignments, and a Markov-style performance state with team momentum. Total scores include both swimming and diving events.

The primary challenger is **Visitation Academy**, with a **0.0%** chance of winning. The gap between the top two teams indicates that the state title is likely a two-school race unless seed data or day-of-meet variance shifts significantly.

The most likely podium (top 3) consists of **Parkway Central, Visitation Academy, St. Teresa's Academy**, with each of these teams having a high probability of finishing in the top three. Coaches and athletes can use these probabilities to set realistic goals (e.g., contending for a podium spot vs. winning the meet).

This report is generated from a stochastic simulator and should be interpreted as a probabilistic outlook, not a prediction of a single outcome. Actual results depend on many factors not in the model (injuries, taper, relay order, etc.).