

# Premier League Implied Probability Model

January 25, 2026

Win Probability & Odds Conversion

TOP FAVORITE

**Liverpool**

IMPLIED WIN PROB

**59.0%**

DECIMAL ODDS

**1.70**

TEAMS ANALYZED

**5**

## Win Probability Rankings

Team	Record	Win %	Implied Prob	Decimal Odds	American Odds
<b>Liverpool</b>	25-4	65.8%	59.0%	1.70	<b>-144</b>
<b>Manchester City</b>	21-9	55.3%	50.6%	1.98	<b>-103</b>
<b>Arsenal</b>	20-4	52.6%	48.5%	2.06	<b>+106</b>
<b>Chelsea</b>	20-9	52.6%	48.5%	2.06	<b>+106</b>
<b>Newcastle United</b>	20-12	52.6%	48.5%	2.06	<b>+106</b>

## Odds Conversion Reference

Implied Probability	Decimal Odds	American Odds	Interpretation
80%	1.25	-400	Heavy favorite

66%	1.50	-200	Clear favorite
50%	2.00	+100	Even money (coin flip)
33%	3.00	+200	Underdog
20%	5.00	+400	Long shot

### Model Insights:

- Implied probabilities derived from season record with Bayesian smoothing
- Top team (Liverpool) has 59.0% implied win probability
- Value opportunities exist when market odds diverge from implied probabilities

**Methodology:** Win probability =  $(\text{Wins} \times \text{Games} + \text{Prior} \times 10) / (\text{Games} + 10)$ . Prior of 33% used for regression to mean. American odds: favorite =  $-100 \times p / (1-p)$ , underdog =  $100 \times (1-p) / p$ . Decimal odds =  $1 / \text{probability}$ . Data from TheSportsDB current season standings.

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Data Source: TheSportsDB API + Statistical Model