

ZTout Explanation

See the numbered end notes at the bottom for an explanation of each piece of information for a given game.

EXAMPLE GAME:

== Game: Road¹ Oklahoma St.
Record:² 14-8,L10 5-5,RN 4-6,ATS 6-9,ATS RN 1-6
RPI Rank:³ 31. Pomeroy Rank: 46. AASM+HCA Rank: 35 (12.893)
Consistency:⁴ 24.0000/281
Luck:⁵ -0.0440/263
Pom SOS:⁶ +0.6717/43 Pom NC SOS: +0.5010/185
Record vs RPI Ranked 1-50:⁷ 2-7 (22.2222 %)
Simple Spiller Factor:⁸ -41.4141 %
Yahoo Info: [Oklahoma St.](#)
[Pomeroy Oklahoma St. Schedule Info](#)
[Pomeroy Oklahoma St. Scouting Report](#)
[Pomeroy Oklahoma St. Game Plan](#)
Actual Line:⁹ +9.0-110 at 09:00 AM
Opening Line:¹⁰ +9.0-110 at 06:00 AM
Pomeroy Line:¹¹ +6.9653
Pomeroy Predicted Total:¹² 69.7664
Z RPI Based Line:¹³ +1.3754
AASM+HCA Line:¹⁴ +4.9380
Dunkel Line:¹⁵ +3.0000
Pred. Tr. Line¹⁶: +5.2163
P.M. Line¹⁷: +2.5000
P.M. Org Vegas Line¹⁸: +9.0000
P.M. Bet Win %¹⁹: +65.2000
Chance of winning:²⁰ % 24.38
Distance From Home:²¹ 235.4 mi

Home Texas
Record: 15-7,L10 5-5,HM 9-2,ATS 8-11,ATS HM 4-8
RPI Rank: 44. Pomeroy Rank: 27. AASM+HCA Rank: 25 (14.550)
Consistency: 19.1000/118
Luck: -0.0750/307
Pom SOS: +0.7003/22 Pom NC SOS: +0.5807/112
Record vs RPI Ranked 1-50: 4-3 (57.1429 %)
Simple Spiller Factor: -11.0390 %
Yahoo Info: [Texas](#)
[Pomeroy Texas Schedule Info](#)
[Pomeroy Texas Scouting Report](#)
[Pomeroy Texas Game Plan](#)
Actual Line: -9.0-110 at 09:00 AM
Opening Line: -9.0-110 at 06:00 AM
Pomeroy Line: -6.9653
Pomeroy Predicted Total: 76.7317
Z RPI Based Line: -1.3754
AASM+HCA Line: -4.9380
Dunkel Line: -3.0000
Pred. Tr. Line: -5.2163
P.M. Line: -2.5000
P.M. Org Vegas Line: -9.0000
P.M. Bet Win %: +65.2000
Chance of winning: % 75.62

	Oklahoma St.	Texas		
	Off Stats	Def Stats	Off Stats	Def Stats
PPG ²²	83.6	66.8	78.9	79.6
FGM-A ²³	29.5-60.1	25.4-60.9	28.2-55.2	29.2-61.1
FG % ²⁴	49.1 %	41.7 %	51.1 %	47.8 %
3PFGM-A ²⁵	9.3-22.9	3.6-13.4	9.8-22.2	5.8 -15.9
3P FG % ²⁶	40.4 %	27.1 %	44.0 %	36.4 %
FT M-A ²⁷	15.4-21.0	12.4-20.8	12.7-16.7	15.3-21.9
FT % ²⁸	73.2 %	59.6 %	76.0 %	70.1 %
REBND ²⁹	39.6	34.0	29.1	33.8
O REBS ³⁰	10.9	10.5	6.9	10.6
ASSISTS ³¹	17.0	10.4	14.6	16.1
P FOULS ³²	18.3	19.5	19.7	16.4
STEALS ³³	4.9	6.3	4.8	6.9
TRNOVRS ³⁴	12.9	12.5	15.3	12.7
BLOCKS ³⁵	4.9	1.9	3.7	1.9
-- Actual O/U: ³⁶	145.5-110			
Pomeroy Predicted O/U: ³⁷	146.4981			
Dunkel Predicted O/U: ³⁸	145.0000			
P.M. Predicted O/U: ³⁹	144.0000			
Z Confidence Rating: ⁴⁰	2.6736			
Pomeroy Pick: ⁴¹	Underdog Oklahoma St.			
Line Differential: ⁴²	2.0347			
Z RPI Diff Pick: ⁴³	Underdog Oklahoma St.			
Z Line Differential: ⁴⁴	7.6246			
AASM+HCA Diff Pick: ⁴⁵	Underdog Oklahoma St.			
AASM+HCA Line Differential: ⁴⁶	4.0620			
Dunkel Pick: ⁴⁷	Underdog Oklahoma St.			
Dunkel Line Differential: ⁴⁸	6.0000			
Pred. Tr. Diff Pick: ⁴⁹	Underdog Oklahoma St.			
Pred. Tr. Diff Line Differential: ⁵⁰	4.0620			
Pomeroy O/U Pick: ⁵¹	Over			
Dunkel O/U Pick: ⁵²	Under			
P.M. O/U Pick: ⁵³	Under			
	Bovada Matchup Report			
	StatFox Matchup Report			
	Today's Pomeroy Thrill Score Rank 9 (33.90) ⁵⁴			
	Pomeroy InstaGamePrep Info ⁵⁵			
	Game Played at Frank Erwin Special Events Center Austin, TX			
	Line from betus.com			

¹ **Road/Home/Neut** – indicates whether the team is Home, Road or at a neutral Site. In this example, Oklahoma St. is on the road at Texas.

² **Record:** Overall Record, including non Division 1 opponents. “L10” indicates record in the last 10 games played, “Site” Record (RN = Road or neutral, HM is Home Record), “ATS” is the record against the spread. “Site” ATS Record is the record against the spread either at home or road/neutral.

³ **Rank:** Rankings – RPI (Ratings Percentage Index), which is basically $1/4*(\text{Winning Percentage}) + 1/2*(\text{Opponents' Average Winning Percentage}) + 1/4*(\text{Opponents' Opponents' Winning Percentage})$ (calculated internally using Pomeroy's interpretation of the RPI formula, see http://kenpom.com/blog/index.php/weblog/rpi_help/ Note that the RPI numbers differ slightly amongst sites, and Pomeroy stopped producing his because of this. However, the rankings should be the same.

Pomeroy Ranking: Using Ken Pomeroy's system, see http://kenpom.com/blog/index.php/weblog/ratings_explanation/

AASM+HCA Ranking: Average Adjusted Scoring Margin with Home Court Advantage. See <http://www.raymondcheong.com/rankings/background.html>. For a deep mathematical explanation. The number in parenthesis is the actual AASM+HCA value.

⁴ **Consistency** (value/Ranking) - This is Pomeroy's Consistency value, which is just the standard deviation by game for a team. A team with a lower (bigger ranking number) consistency ranking is more likely to perform erratically from game to game. In this example, Oklahoma St. is a more erratically performing team than Texas.

⁵ **Luck** (value/Ranking) - This is Pomeroy's Luck calculation, which is the deviation between the teams actual record and their predicted record. A "Luckier" team will have a better record than would be predicted based on their Pomeroy stats predict

⁶ **Pom SOS/ POM NC SOS** (value/Rank) – Pomeroy calculated Strength of Schedule and Non-Conference Strength of Schedule (see Pomeroy ratings explanation above for details on how it is calculated).

⁷ **Record vs RPI Ranked nn** - Shows you this teams record against teams ranked in the opponent's tier (by RPI). Tiers are 1-5, 51-100, 101-200 and 200+.

⁸ **Simple Spiller Factor** - The difference between the teams overall winning % and it's winning % versus like ranked opponents. Example. OK St. Record 14-8 (winning % 63.63) Record versus teams in RPI Ranked 1-50: 2-7 (22.22%). $22.22\% - 63.63 = -41.41\%$. Positive SSF means the team performs better against these kinds of opponents, negative values means they perform worse.

⁹ **Actual Line** – The line from betus.com as of last time ZTou Engine was run.

¹⁰ **Opening Line** - Line from betus.com when it was first taken in the morning (usually 6 AM Mountain).

¹¹ **Pomeroy Line** - The expected line as calculated using Ken Pomeroy's [pythagorean calculation for expected winning percentage](http://kenpom.com/blog/index.php/weblog/ratings_explanation/) (see http://kenpom.com/blog/index.php/weblog/ratings_explanation/). Pomeroy's system is used to predict the total for each team, then you just subtract the totals to get the expected line. In this example, the Pomeroy system predicts OK St. will score 69.7664 points against Texas, and that Texas will score 76.7317 points against OK. St. So Texas is the favorite, and the predicted line should be $76.7317 - 69.7664 = -6.9653$. Pomeroy adds 1.4% to the Offensive Efficiency and removes 1.4% from the road teams Defensive Efficiency to incorporate home court advantage.

¹² **Pomeroy Predicted Total** – The expected total this team will score against this opponent using the Pomeroy system, as explained above in note 11.

¹³ **Z RPI Based Line** - The Z RPI line is based on my original attempt at a predictive system, where you take the difference between the two teams RPI and multiply it by a RPI factor. The RPI factor was computed over a number of years of NCAA tournament results, and is currently set at -0.163432792. So, in this example, Texas RPI ranking is 44, and Ok. St is 31. 3.5 points is added in the home team's directions, so $44 - 31 = 13 * -0.163432792 = -2.124626296 + 3.5 = 1.375373704$. The Z RPI is no longer included in the Z Confidence factor, but is merely included for nostalgia. It appears to be the least reliable of the 3 predictive systems.

¹⁴ **AASM+HCA Line** – The line as predicted by the AASM+HCA system (see <http://www.raymondcheong.com/rankings/background.html>). The AASM+HCA values are adjusted scoring margins, so to use them to predict the scoring margin when two teams play, you simply subtract the higher the higher ranked team's AASM+HCA value for the lower ranked team. In this example, Ok. St's AASM+HCA value is 12.893, and Texas' is 14.550. So $14.550 - 12.893 = 1.657$. The current HCA at the time of this game was 3.2805, so the line is $1.657 + 3.2805 = 4.9375$.

¹⁵ **Dunkel Line** - The Dunkel Line, as predicted by the [Dunkel Index Site](#).

¹⁶ **Prediction Tracker Line** - The averaged [Prediction Tracker](#) site line. And average of various sites predictions.

¹⁷ **P.M. Line** - The Predictalator (Prediction Machine) line.

¹⁸ **P.M. Org Vegas Line** - The Vegas line the Predictalator bet win % is calculated off of.

¹⁹ **P.M. Bet Win %** - The Predictalator bet win percentage, based on the P.M. Vegas line

²⁰ **Chance of Winning** - The Pythagorean method can be used to give a prediction of the chances of one team beating another using given factors.

²¹ **Distance From Home** – the approximate driving distance from the visitor's (or for both teams when at a neutral site) home arena or campus.

²² **PPG** - Average points per game scored (off) and given up (def)

²³ **FGM-A** - Average field goals made-attempted per game (off) average opponents field goals made-attempted per game

²⁴ **FG %** - Field goal percentage (off) opponents field goal percentage (def)

²⁵ **3PFGM-A** - Average 3 point field goals made-attempted per game (off) average opponents 3 point field goals made-attempted per game

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- ²⁶ **3P FG %** - 3 point field goal percentage (off) opponents 3 point field goal percentage (def)
- ²⁷ **FT M-A** – Average free throws per game made-attempted (off), opponents average free throws made-attempted
- ²⁸ **FT %** - Free throw average (off) – opponents free throw average (def)
- ²⁹ **REBNDNS** – Rebounds per game (off) – opponents rebounds per game (def)
- ³⁰ **O REBS** – Offensive rebounds per game (off) – opponents offensive rebounds per game (def)
- ³¹ **ASSISTS** – Assists per game (off) – opponents assists per game (def)
- ³² **P FOULS** – Personal fouls per game (off) – opponents personal fouls per game (def)
- ³³ **STEALS** – Steal per game (off) – opponents steals per game (def)
- ³⁴ **TRNDm4nS**– Turnovers per game (off) – opponents turnovers per game (def)
- ³⁵ **BLOCKS** – Blocks per game (off) – opponents blocks per game (def)
- ³⁶ **Actual Dm**– The actual Over/Under as taken from betus.com. Typically, there is no O/U in the early morning, but one will be added later in the day.

⁴⁵ **AASM+HCA Diff Pick** – The AASM+HCA Pick, using the AASM_HCA line differential instead of the Pomeroy one.

⁴⁶ **AASM+HCA Line Differential** – The AASM+HCA line differential. This is calculated the same way the Pomeroy line differential is (see note 42), except using the AASM+HCA line (see note 14).

⁴⁷ **Dunkel Pick** – The Dunkel, using the Dunkel Index line differential instead of the Pomeroy one.

⁴⁸ **Dunkel Line Differential** – The Dunkel line differential. This is calculated the same way the Pomeroy line differential is (see note 42), except using the Dunkel line (see note 14).

⁴⁹ **Pred. Tr. Diff Pick** – The Prediction Tracker Pick, using the Prediction Tracker line differential instead of the Pomeroy one.

⁵⁰ **Pred. Tr. Line Differential** – The Prediction Tracker line differential. This is calculated the same way the Pomeroy line differential is (see note 42), except using the Prediction Tracker line (see note 14).

⁵¹ **Pomeroy O/U Pick** – The Pomeroy pick on the O/U, based on whether the predicted team totals (see note 37) is greater or less than the actual O/U. In this example, the Pomeroy predicted total is 146.4981, and the actual O/U is 145.5, so the system says bet the over.

⁵² **Dunkel O/U Pick** – The Dunkel pick on the O/U, based on whether the Dunkel Index predicted total is greater or less than the actual O/U. In this example, the Dunkel predicted total is 145.0000, and the actual O/U is 145.5, so the Dunkel says bet the under.

⁵³ **P.M. Predicted O/U Pick** – The Predictalator pick on the O/U, based on whether the Prediction Machine predicted total is greater or less than the actual O/U. In this example, the Predictalator predicted total is 144.0000, and the actual O/U is 145.5, so the Predictalator says bet the under.

⁵⁴ **Today's Pomeroy Thrill Score Rank** – The Pomeroy Fan Match thrill score for the game for the day. Ken Pomeroy has a formula for predicting which games on a given day will be the most worth watching, with 1 being the best.

⁵⁵ **Pomeroy InstaGamePrep Info** – Link to Ken Pomeroy game side-by-side matching comparison, based on pace adjusted statistics. Requires a login to Ken Pomeroy site.