

NFL Wizard: Ranking Methodology

This report ranks NFL players and defenses based on advanced statistical models. The goal is to identify high-upside performers using historical data correlations.

1. Player Scoring Algorithm

Player rankings are determined by a 'Weighted Efficiency Score'.

Step A: Weight Calculation

We calculate the weight of various advanced statistics based on their correlation with a player's PPR (Points Per Reception) Share. Stats with higher correlation receive higher weights. The weights are normalized to sum to 1.

Key Statistics Used:

- Target Share (tgt_sh)
- Air Yards Share (ay_sh)
- Weighted Opportunity Rating (wopr_x, wopr_y)
- Yards After Catch Share (yac_sh)
- Dominator Rating (dom, w8dom)
- Yards Per Team Pass Attempt (yptmpa)

Step B: Normalization (Z-Score)

To compare different stats on the same scale, we normalize each stat:

$$Z = (\text{Value} - \text{Average}) / \text{Standard Deviation}$$

This tells us how many standard deviations a player is above or below the league average.

Step C: Final Score

$$\text{Score} = \text{Sum}(\text{Normalized_Stat} * \text{Weight})$$

2. Defense Scoring Algorithm

Defenses are ranked by aggregating individual player stats (DL, LB, DB) per team.

The score is a simple sum of normalized values for:

- Total Sacks
- Total Fantasy Points
- PPR Fantasy Points

3. Visual Key

Players highlighted in RED have a PPR Share > 15%, indicating they are a focal point of their team's offense.

Top 15 QBs

Rank	Name	Score	FPts (PPR)	Games	Key Stats (Yds/TDs)
1	Bo Nix	-0.81	317.2	17	3775 Pass Yds / 29 TDs
2	Jared Goff	-0.82	324.5	17	4629 Pass Yds / 37 TDs
3	Anthony Richardson	-0.86	163.4	11	1814 Pass Yds / 8 TDs
4	Patrick Mahomes	-0.87	283.0	16	3928 Pass Yds / 26 TDs
5	C.J. Stroud	-0.87	220.4	17	3727 Pass Yds / 20 TDs
6	Jayden Daniels	-0.88	355.8	17	3568 Pass Yds / 25 TDs
7	Tyrod Taylor	-0.88	20.1	2	119 Pass Yds / 3 TDs
8	Matthew Stafford	-0.88	214.6	16	3762 Pass Yds / 20 TDs
9	Kenny Pickett	-0.88	25.1	5	291 Pass Yds / 2 TDs
10	Brock Purdy	-0.88	266.9	15	3864 Pass Yds / 20 TDs
11	Skylar Thompson	-0.88	7.9	2	187 Pass Yds / 0 TDs
12	Andy Dalton	-0.88	59.0	6	989 Pass Yds / 7 TDs
13	Russell Wilson	-0.88	172.8	11	2482 Pass Yds / 16 TDs
14	Kirk Cousins	-0.88	176.3	14	3508 Pass Yds / 18 TDs
15	Hendon Hooker	-0.88	2.7	3	62 Pass Yds / 0 TDs

Top 15 RBs

Rank	Name	Score	FPts (PPR)	Games	Key Stats (Yds/TDs)
1	Alvin Kamara	1.00	265.3	14	950 Rush Yds / 6 TDs / 68 Rec
2	De'Von Achane	0.91	299.9	17	907 Rush Yds / 6 TDs / 78 Rec
3	Christian McCaffrey	0.71	47.8	4	202 Rush Yds / 0 TDs / 15 Rec
4	Breece Hall	0.45	240.9	16	876 Rush Yds / 5 TDs / 57 Rec
5	Austin Ekeler	0.38	132.3	12	367 Rush Yds / 4 TDs / 35 Rec
6	Rachaad White	0.36	199.6	15	613 Rush Yds / 3 TDs / 51 Rec
7	Kenneth Walker III	0.36	181.2	11	573 Rush Yds / 7 TDs / 46 Rec
8	Bijan Robinson	0.35	341.7	17	1456 Rush Yds / 14 TDs / 61 Rec
9	Justice Hill	0.32	127.1	15	228 Rush Yds / 1 TDs / 42 Rec
10	Jahmyr Gibbs	0.32	354.9	17	1412 Rush Yds / 16 TDs / 52 Rec
11	Joe Mixon	0.29	240.5	14	1016 Rush Yds / 11 TDs / 36 Rec
12	James Conner	0.29	253.8	16	1094 Rush Yds / 8 TDs / 47 Rec
13	Aaron Jones	0.26	241.6	17	1138 Rush Yds / 5 TDs / 51 Rec
14	Ameer Abdullah	0.21	125.2	13	311 Rush Yds / 2 TDs / 40 Rec
15	Zack Moss	0.19	81.9	8	242 Rush Yds / 2 TDs / 23 Rec

Top 15 WRs

Rank	Name	Score	FPts (PPR)	Games	Key Stats (Yds/TDs)
1	Malik Nabers	3.49	273.6	15	1204 Rec Yds / 7 TDs / 109 Rec
2	A.J. Brown	3.46	216.9	13	1079 Rec Yds / 7 TDs / 67 Rec
3	Rashee Rice	3.26	64.9	3	288 Rec Yds / 2 TDs / 24 Rec
4	Brian Thomas Jr.	2.92	284.0	17	1282 Rec Yds / 10 TDs / 87 Rec
5	Ja'Marr Chase	2.87	403.0	17	1708 Rec Yds / 17 TDs / 127 Rec
6	Justin Jefferson	2.74	317.5	17	1533 Rec Yds / 10 TDs / 103 Rec
7	Puka Nacua	2.73	206.6	11	990 Rec Yds / 3 TDs / 79 Rec
8	Nico Collins	2.72	210.6	12	1006 Rec Yds / 7 TDs / 68 Rec
9	Drake London	2.70	280.8	17	1271 Rec Yds / 9 TDs / 100 Rec
10	DeVonta Smith	2.58	199.4	13	833 Rec Yds / 8 TDs / 68 Rec
11	Davante Adams	2.50	241.3	14	1063 Rec Yds / 8 TDs / 85 Rec
12	CeeDee Lamb	2.44	263.4	15	1194 Rec Yds / 6 TDs / 101 Rec
13	Terry McLaurin	2.43	267.8	17	1096 Rec Yds / 13 TDs / 82 Rec
14	Ladd McConkey	2.39	240.9	16	1149 Rec Yds / 7 TDs / 82 Rec
15	Courtland Sutton	2.37	240.3	16	1081 Rec Yds / 8 TDs / 81 Rec

Top 15 TEs

Rank	Name	Score	FPts (PPR)	Games	Key Stats (Yds/TDs)
1	Trey McBride	2.23	243.8	16	1146 Rec Yds / 2 TDs / 111 Rec
2	George Kittle	2.23	236.6	15	1106 Rec Yds / 8 TDs / 78 Rec
3	Brock Bowers	2.16	262.7	17	1194 Rec Yds / 5 TDs / 112 Rec
4	Jonnu Smith	1.70	222.3	17	884 Rec Yds / 8 TDs / 88 Rec
5	Travis Kelce	1.39	195.4	16	823 Rec Yds / 3 TDs / 97 Rec
6	Hunter Henry	1.37	145.4	16	674 Rec Yds / 2 TDs / 66 Rec
7	David Njoku	1.36	148.5	11	505 Rec Yds / 5 TDs / 64 Rec
8	Dallas Goedert	1.31	103.6	10	496 Rec Yds / 2 TDs / 42 Rec
9	Pat Freiermuth	1.30	168.3	17	653 Rec Yds / 7 TDs / 65 Rec
10	Evan Engram	1.20	89.5	9	365 Rec Yds / 1 TDs / 47 Rec
11	Tucker Kraft	1.15	163.3	17	707 Rec Yds / 7 TDs / 50 Rec
12	Zach Ertz	1.14	177.4	17	654 Rec Yds / 7 TDs / 66 Rec
13	Mark Andrews	1.11	188.8	17	673 Rec Yds / 11 TDs / 55 Rec
14	Sam LaPorta	1.09	174.6	16	726 Rec Yds / 7 TDs / 60 Rec
15	Tyler Higbee	1.06	26.6	3	66 Rec Yds / 2 TDs / 8 Rec

Top 15 Team Defenses

Rank	Name	Score	FPts (PPR)	Sacks
1	Chicago Bears	4.86	12.0	0
2	Dallas Cowboys	1.98	7.4	0
3	Cincinnati Bengals	1.86	7.2	0
4	Cleveland Browns	1.47	6.0	0
5	San Francisco 49ers	1.47	6.0	0
6	Tampa Bay Buccaneers	1.36	5.8	0
7	Las Vegas Raiders	0.28	4.4	0
8	New England Patriots	-0.22	3.5	0
9	New York Jets	-0.73	2.1	0
10	New York Giants	-1.35	1.0	0
11	Philadelphia Eagles	-1.63	1.0	0
12	Seattle Seahawks	-1.80	0.2	0
13	Detroit Lions	-1.86	0.1	0
14	Kansas City Chiefs	-1.86	0.1	0
15	Carolina Panthers	-1.91	0.0	0