| Rank | Running Backs | Team | Opp |
|------|---------------|------|-----|
| 1 | Todd Gurley | LAR | vs. ARI |
| 2 | Alvin Kamara | NO | vs. CLE |
| 3 | Ezekiel Elliott | DAL | vs. NYG |
| 4 | Melvin Gordon | LAC | at BUF |
| 5 | James Conner | PIT | vs. KC |
| 6 | David Johnson | ARI | at LAR |
| 7 | Saquon Barkley | NYG | at DAL |
| 8 | Kareem Hunt | KC | at PIT |
| 9 | Joe Mixon | CIN | vs. BAL |
| 10 | Jordan Howard | CHI | vs. SEA |
| 11 | Christian McCaffrey | CAR | at ATL |
| 12 | Dalvin Cook | MIN | at GB |
| 13 | Alex Collins | BAL | at CIN |
| 14 | Lamar Miller | HOU | at TEN |
| 15 | Jay Ajayi | PHI | at TB |
| 16 | Adrian Peterson | WAS | vs. IND |
| 17 | LeSean McCoy | BUF | vs. LAC |
| 18 | Kenyan Drake | MIA | at NYJ |
| 19 | Devonta Freeman | ATL | vs. CAR |
| 20 | Dion Lewis | TEN | vs. HOU |
| 21 | Jamaal Williams | GB | vs. MIN |
| 22 | Rex Burkhead | NE | at JAC |
| 23 | Leonard Fournette | JAC | vs. NE |
| 24 | Royce Freeman | DEN | vs. OAK |
| 25 | Carlos Hyde | CLE | at NO |
| 26 | Peyton Barber | TB | vs. PHI |
| 27 | Marshawn Lynch | OAK | at DEN |
| 28 | Derrick Henry | TEN | vs. HOU |
| 29 | Chris Thompson | WAS | vs. IND |
| 30 | Tevin Coleman | ATL | vs. CAR |

| | | | |
|---|---|---|---|
| 31 | Isaiah Crowell | NYJ | vs. MIA |
| 32 | Bilal Powell | NYJ | vs. MIA |
| 33 | Chris Carson | SEA | at CHI |
| 34 | Alfred Morris | SF | vs. DET |
| 35 | T.J. Yeldon | JAC | vs. NE |
| 36 | Matt Breida | SF | vs. DET |
| 37 | James White | NE | at JAC |
| 38 | Kerryon Johnson | DET | at SF |
| 39 | Phillip Lindsay | DEN | vs. OAK |
| 40 | Austin Ekeler | LAC | at BUF |
| 41 | Duke Johnson | CLE | at NO |
| 42 | Javorius Allen | BAL | at CIN |
| 43 | Tarik Cohen | CHI | vs. SEA |
| 44 | Marlon Mack | IND | at WAS |
| 45 | Latavius Murray | MIN | at GB |
| 46 | Jordan Wilkins | IND | at WAS |
| 47 | Theo Riddick | DET | at SF |
| 48 | Frank Gore | MIA | at NYJ |
| 49 | Ty Montgomery | GB | vs. MIN |
| 50 | Rashaad Penny | SEA | at CHI |
| 51 | Jalen Richard | OAK | at DEN |
| 52 | LeGarrette Blount | DET | at SF |
| 53 | Corey Clement | PHI | at TB |
| 54 | C.J. Anderson | CAR | at ATL |
| 55 | Giovani Bernard | CIN | vs. BAL |
| 56 | Sony Michel | NE | at JAC |
| 57 | Darren Sproles | PHI | at TB |
| 58 | Doug Martin | OAK | at DEN |
| 59 | Nyheim Hines | IND | at WAS |
| 60 | Chase Edmonds | ARI | at LAR |