

# Combined Offensive and Defensive Position Group F-Statistics

2025-03-26

Table 1: F-Statistics for ALL Offensive Position Variables Combined

| Dataset                  | Starter Models    |                   |                   | On-Field Models |                 |                | Attempt Models  |                 |                 |
|--------------------------|-------------------|-------------------|-------------------|-----------------|-----------------|----------------|-----------------|-----------------|-----------------|
|                          | Starter LPM       | Starter Probit    | Starter Logit     | On-Field LPM    | On-Field Probit | On-Field Logit | Attempt LPM     | Attempt Probit  | Attempt Logit   |
| Offense Grades           | 1.41* [35,3984]   | 1.54** [35,3984]  | 1.58** [35,3984]  | 0.89 [35,3984]  | 1.08 [35,3984]  | 1.09 [35,3984] | 0.87 [35,25573] | 0.86 [35,25573] | 0.86 [35,25573] |
| Offense Yards            | 1.95*** [35,3984] | 2.23*** [35,3984] | 2.22*** [35,3984] | 1.04 [35,3984]  | 1.16 [35,3984]  | 1.16 [35,3984] | 0.80 [35,25573] | 0.97 [35,25573] | 0.89 [35,25573] |
| Offense Completions      | 1.71*** [35,3984] | 1.94*** [35,3984] | 1.92*** [35,3984] | 1.18 [35,3984]  | 1.32* [35,3984] | 1.30 [35,3984] | 0.69 [35,25573] | 0.80 [35,25573] | 0.71 [35,25573] |
| <b>Control Variables</b> |                   |                   |                   |                 |                 |                |                 |                 |                 |
| Game Situation           | Yes               | Yes               | Yes               | Yes             | Yes             | Yes            | Yes             | Yes             | Yes             |
| Coach Variables          | Yes               | Yes               | Yes               | Yes             | Yes             | Yes            | Yes             | Yes             | Yes             |
| Team Stats               | Yes               | Yes               | Yes               | Yes             | Yes             | Yes            | Yes             | Yes             | Yes             |
| Season/Team FE           | Yes               | Yes               | Yes               | Yes             | Yes             | Yes            | No              | No              | No              |
| Coach FE                 | No                | No                | No                | Yes             | Yes             | Yes            | Yes             | Yes             | Yes             |
| GIMR                     | Yes               | Yes               | Yes               | Yes             | Yes             | Yes            | No              | No              | No              |
| Player Presence          | Yes               | Yes               | Yes               | Yes             | Yes             | Yes            | No              | No              | No              |
| Control Def. Players     | No                | No                | No                | No              | No              | No             | No              | No              | No              |
| Control Off. Players     | Yes               | Yes               | Yes               | Yes             | Yes             | Yes            | Yes             | Yes             | Yes             |

Note:

F-statistics reported with degrees of freedom [df1,df2] and significance levels for ALL position variables combined.

\* p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01

Table 2: F-Statistics for ALL Defensive Position Variables Combined

| Dataset                  | Starter Models  |                   |                  | On-Field Models |                 |                | Attempt Models  |                 |                 |
|--------------------------|-----------------|-------------------|------------------|-----------------|-----------------|----------------|-----------------|-----------------|-----------------|
|                          | Starter LPM     | Starter Probit    | Starter Logit    | On-Field LPM    | On-Field Probit | On-Field Logit | Attempt LPM     | Attempt Probit  | Attempt Logit   |
| Defense Grades           | 1.38* [38,3981] | 1.62*** [38,3981] | 1.60** [38,3981] | 0.59 [38,3981]  | 0.64 [38,3981]  | 0.64 [38,3981] | 1.05 [38,25570] | 1.04 [38,25570] | 1.13 [38,25570] |
| Defense Stops            | 1.33* [38,3981] | 1.48** [38,3981]  | 1.46** [38,3981] | 0.84 [38,3981]  | 0.88 [38,3981]  | 0.91 [38,3981] | 1.17 [38,25570] | 1.13 [38,25570] | 1.10 [38,25570] |
| Defense Tackles          | 1.12 [38,3981]  | 1.20 [38,3981]    | 1.20 [38,3981]   | 0.78 [38,3981]  | 0.87 [38,3981]  | 0.85 [38,3981] | 1.12 [38,25570] | 1.08 [38,25570] | 1.07 [38,25570] |
| <b>Control Variables</b> |                 |                   |                  |                 |                 |                |                 |                 |                 |
| Game Situation           | Yes             | Yes               | Yes              | Yes             | Yes             | Yes            | Yes             | Yes             | Yes             |
| Coach Variables          | Yes             | Yes               | Yes              | Yes             | Yes             | Yes            | Yes             | Yes             | Yes             |
| Team Stats               | Yes             | Yes               | Yes              | Yes             | Yes             | Yes            | Yes             | Yes             | Yes             |
| Season/Team FE           | Yes             | Yes               | Yes              | Yes             | Yes             | Yes            | No              | No              | No              |
| Coach FE                 | No              | No                | No               | Yes             | Yes             | Yes            | Yes             | Yes             | Yes             |
| GIMR                     | Yes             | Yes               | Yes              | Yes             | Yes             | Yes            | No              | No              | No              |
| Player Presence          | Yes             | Yes               | Yes              | Yes             | Yes             | Yes            | No              | No              | No              |
| Control Off. Players     | Yes             | Yes               | Yes              | Yes             | Yes             | Yes            | Yes             | Yes             | Yes             |
| Control Def. Players     | No              | No                | No               | No              | No              | No             | No              | No              | No              |

Note:

F-statistics reported with degrees of freedom [df1,df2] and significance levels for ALL position variables combined.

\* p < 0.10, \*\* p < 0.05, \*\*\* p < 0.01