Academic Tables for NFL Player Performance Models

2025-03-23

Table 1: Offense Grades Model Results

Variable	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
Quarterbacks									
Short Grades Pass	0.028(0.016)*	0.036(0.019)*	0.037(0.020)*	0.031(0.014)**	0.039(0.017)**	0.041(0.017)**	0.007(0.004)	0.007(0.005)	0.006(0.004)
Medium Grades Pass	-0.014(0.013)	-0.016(0.016)	-0.017(0.016)	-0.002(0.015)	0.001(0.017)	-0.002(0.018)	0.006(0.004)	0.005(0.004)	0.004(0.004)
Deep Grades Pass	-0.013(0.013)	-0.017(0.015)	-0.019(0.016)	-0.021(0.013)	-0.029(0.015)*	-0.029(0.016)*	0.006(0.004)	0.005(0.004)	0.005(0.003)
Running Backs									
Grades Pass Block	-0.021(0.010)**	-0.026(0.012)**	-0.027(0.013)**	0.011(0.010)	0.012(0.011)	0.013(0.012)	-0.004(0.003)	-0.006(0.003)*	-0.005(0.003)*
Grades Run	0.012(0.011)	0.015(0.012)	0.016(0.013)	-0.005(0.011)	-0.006(0.013)	-0.007(0.013)	-0.001(0.003)	-0.001(0.003)	-0.000(0.003)
Short Grades Pass	0.004(0.011)	0.005(0.012)	0.004(0.013)	-0.002(0.010)	-0.001(0.012)	-0.001(0.012)	-0.000(0.003)	0.000(0.003)	0.000(0.003)
Medium Grades Pass	-0.015(0.009)	-0.017(0.011)	-0.017(0.011)	-0.005(0.009)	-0.006(0.010)	-0.006(0.011)	-0.001(0.003)	-0.001(0.003)	-0.001(0.003)
Deep Grades Pass	-0.004(0.010)	-0.005(0.011)	-0.006(0.011)	-0.002(0.009)	-0.003(0.010)	-0.003(0.011)	0.003(0.003)	0.002(0.003)	0.002(0.002)
WR1									
Grades Run Block	0.007(0.015)	0.006(0.018)	0.008(0.018)	-0.012(0.019)	-0.016(0.022)	-0.014(0.023)	-0.006(0.004)	-0.006(0.004)	-0.005(0.004)
Short Grades Pass	0.003(0.013)	0.003(0.015)	0.005(0.016)	0.000(0.016)	-0.002(0.018)	-0.002(0.018)	-0.000(0.004)	-0.000(0.004)	-0.001(0.004)
Medium Grades Pass	0.015(0.013)	0.017(0.015)	0.018(0.016)	0.001(0.014)	0.002(0.016)	0.002(0.017)	0.005(0.004)	0.004(0.004)	0.004(0.004)
Deep Grades Pass	0.001(0.011)	0.001(0.013)	0.001(0.013)	0.002(0.012)	0.005(0.014)	0.005(0.014)	0.003(0.003)	0.004(0.003)	0.003(0.003)
WR2									
Grades Run Block	-0.021(0.016)	-0.025(0.018)	-0.025(0.018)	0.027(0.036)	0.035(0.042)	0.038(0.043)	-0.001(0.004)	-0.001(0.005)	0.001(0.004)
Short Grades Pass	-0.011(0.013)	-0.012(0.015)	-0.014(0.016)	0.013(0.024)	0.015(0.027)	0.016(0.028)	0.008(0.004)**	0.008(0.004)**	0.007(0.003)**
Medium Grades Pass	0.016(0.012)	0.018(0.013)	0.020(0.014)	-0.005(0.020)	-0.009(0.023)	-0.009(0.024)	0.001(0.004)	-0.000(0.003)	-0.000(0.003)
Deep Grades Pass	0.003(0.011)	0.005(0.012)	0.005(0.013)	0.011(0.016)	0.017(0.019)	0.016(0.019)	0.000(0.003)	0.000(0.003)	0.000(0.003)
WR3									
Grades Run Block	-0.007(0.014)	-0.008(0.016)	-0.010(0.016)	0.018(0.027)	0.023(0.031)	0.023(0.033)	-0.001(0.004)	-0.001(0.004)	-0.000(0.004)
Short Grades Pass	-0.015(0.011)	-0.019(0.013)	-0.019(0.013)	-0.001(0.020)	0.001(0.023)	0.003(0.024)	-0.003(0.003)	-0.003(0.003)	-0.002(0.003)
Medium Grades Pass	0.008(0.010)	0.009(0.012)	0.009(0.012)	0.011(0.019)	0.007(0.022)	0.007(0.022)	0.006(0.003)*	0.005(0.003)	0.005(0.003)
Deep Grades Pass	0.003(0.010)	0.005(0.011)	0.004(0.012)	0.015(0.015)	0.021(0.017)	0.021(0.018)	0.001(0.003)	0.002(0.003)	0.002(0.003)
TE1									
Grades Pass Block	0.026(0.012)**	0.031(0.013)**	0.033(0.014)**	0.024(0.011)**	0.032(0.013)**	0.033(0.014)**	-0.002(0.003)	-0.003(0.003)	-0.002(0.003)
Grades Run Block	-0.015(0.015)	-0.018(0.017)	-0.020(0.018)	-0.012(0.012)	-0.016(0.014)	-0.017(0.015)	-0.000(0.003)	0.002(0.005)	0.001(0.004)
Short Grades Pass	0.004(0.013)	0.004(0.014)	0.003(0.015)	0.000(0.013)	-0.001(0.014)	-0.001(0.015)	0.003(0.004)	0.002(0.004)	0.002(0.003)
Medium Grades Pass	-0.017(0.011)	-0.020(0.012)	-0.021(0.013)	0.017(0.011)	0.020(0.012)*	0.022(0.012)*	0.002(0.003)	0.002(0.003)	0.001(0.003)
Deep Grades Pass	-0.003(0.010)	-0.004(0.011)	-0.004(0.012)	-0.015(0.009)	-0.018(0.011)*	-0.018(0.011)	0.002(0.003)	0.002(0.003)	0.002(0.003)
OL1									
Grades Pass Block	0.016(0.012)	0.021(0.014)	0.022(0.014)	-0.011(0.009)	-0.013(0.011)	-0.013(0.011)	-0.004(0.003)	-0.004(0.003)	-0.003(0.003)
Grades Run Block	0.004(0.014)	0.006(0.016)	0.004(0.017)	0.006(0.010)	0.007(0.011)	0.009(0.012)	0.001(0.004)	0.000(0.004)	0.000(0.004)
OL2									
Grades Pass Block	-0.008(0.012)	-0.009(0.013)	-0.010(0.014)	-0.005(0.010)	-0.006(0.011)	-0.006(0.011)	-0.000(0.003)	-0.001(0.003)	-0.002(0.003)
Grades Run Block	-0.002(0.014)	-0.003(0.016)	-0.003(0.017)	-0.012(0.010)	-0.015(0.011)	-0.017(0.012)	0.003(0.004)	0.005(0.004)	0.004(0.004)
OL3									
Grades Pass Block	0.009(0.012)	0.009(0.013)	0.011(0.014)	0.007(0.009)	0.009(0.011)	0.010(0.011)	0.001(0.003)	0.001(0.004)	0.001(0.003)
Grades Run Block	-0.015(0.014)	-0.018(0.016)	-0.019(0.017)	0.004(0.009)	0.006(0.011)	0.006(0.011)	-0.004(0.004)	-0.004(0.004)	-0.004(0.004)
OL4									
Grades Pass Block	0.023(0.012)*	0.025(0.014)*	0.028(0.014)*	0.006(0.010)	0.007(0.011)	0.008(0.012)	-0.003(0.003)	-0.004(0.003)	-0.003(0.003)
Grades Run Block	-0.006(0.013)	-0.008(0.015)	-0.009(0.015)	-0.013(0.010)	-0.014(0.011)	-0.016(0.011)	0.000(0.004)	0.001(0.003)	0.001(0.003)
OL5									
Grades Pass Block	0.031(0.012)**	0.035(0.014)**	0.037(0.015)**	-0.012(0.010)	-0.015(0.012)	-0.016(0.012)	0.001(0.003)	0.003(0.004)	0.002(0.003)
Grades Run Block	-0.031(0.013)**	-0.037(0.015)**	-0.038(0.016)**	0.010(0.010)	0.011(0.012)	0.012(0.012)	-0.002(0.004)	-0.002(0.004)	-0.002(0.003)
Perf. Measures									
GIMR	0.007(0.002)***	0.010(0.003)***	0.010(0.003)***	0.007(0.002)***	0.010(0.003)***	0.010(0.003)***			
Control Variables									
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
Player Presence	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
Control Def. Players	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Control Off. Players	No	No	No	No	No	No	No	No	No

Note:

Marginal effects reported with standard errors in parentheses and significance levels.

* * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table 2: Offense Yards Model Results

Variable	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**
Quarterbacks									
Short Yards	0.018(0.013)	0.021(0.015)	0.021(0.016)	0.020(0.014)	0.023(0.016)	0.023(0.017)	0.002(0.004)	0.001(0.004)	0.002(0.003)
Medium Yards	0.028(0.013)**	0.038(0.015)**	0.038(0.016)**	0.004(0.014)	0.006(0.016)	0.006(0.017)	0.006(0.004)	0.005(0.004)	0.004(0.004)
Deep Yards	-0.036(0.012)***	-0.045(0.014)***	-0.046(0.014)***	-0.017(0.012)	-0.021(0.013)	-0.021(0.014)	0.007(0.004)*	0.006(0.004)	0.005(0.003)
Running Backs									
Grades Pass Block	-0.015(0.010)	-0.018(0.011)	-0.019(0.012)	0.009(0.009)	0.010(0.010)	0.010(0.011)	-0.005(0.003)	-0.006(0.003)*	-0.005(0.003)*
Yards	0.002(0.010)	0.004(0.011)	0.003(0.012)	0.016(0.009)*	0.019(0.010)*	0.019(0.011)*	0.005(0.003)*	0.006(0.003)*	0.005(0.003)*
Short Yards	-0.007(0.010)	-0.009(0.011)	-0.008(0.012)	-0.015(0.010)	-0.018(0.011)	-0.017(0.011)	0.001(0.003)	0.002(0.003)	0.002(0.003)
Medium Yards	-0.020(0.009)**	-0.024(0.010)**	-0.025(0.010)**	-0.007(0.008)	-0.009(0.009)	-0.010(0.010)	-0.003(0.003)	-0.006(0.003)**	-0.005(0.003)*
Deep Yards	0.003(0.009)	0.005(0.012)	0.004(0.012)	-0.001(0.009)	-0.003(0.010)	-0.003(0.011)	-0.004(0.003)	-0.004(0.003)	-0.003(0.002)
WR1									
Grades Run Block	0.010(0.015)	0.010(0.017)	0.011(0.018)	-0.009(0.019)	-0.013(0.021)	-0.012(0.023)	-0.003(0.004)	-0.002(0.004)	-0.002(0.004)
Short Yards	-0.006(0.010)	-0.007(0.012)	-0.007(0.012)	-0.001(0.011)	-0.003(0.012)	-0.002(0.012)	-0.003(0.003)	-0.004(0.003)	-0.004(0.003)
Medium Yards	-0.001(0.011)	-0.001(0.012)	-0.001(0.012)	-0.004(0.011)	-0.004(0.012)	-0.004(0.013)	0.001(0.003)	0.000(0.003)	0.001(0.003)
Deep Yards	0.027(0.010)***	0.033(0.011)***	0.035(0.012)***	0.017(0.010)*	0.021(0.011)*	0.022(0.012)*	0.001(0.003)	0.002(0.003)	0.001(0.003)
WR2									
Grades Run Block	-0.022(0.015)	-0.026(0.017)	-0.027(0.018)	0.041(0.035)	0.050(0.041)	0.055(0.042)	0.002(0.004)	0.002(0.004)	0.003(0.004)
Short Yards	-0.009(0.010)	-0.009(0.012)	-0.011(0.012)	0.000(0.011)	0.000(0.013)	-0.000(0.013)	0.004(0.003)	0.003(0.003)	0.003(0.003)
Medium Yards	-0.008(0.011)	-0.011(0.012)	-0.012(0.013)	-0.016(0.012)	-0.017(0.014)	-0.019(0.014)	-0.003(0.003)	-0.003(0.003)	-0.003(0.003)
Deep Yards	0.016(0.010)	0.020(0.012)*	0.021(0.012)*	0.008(0.010)	0.010(0.012)	0.011(0.012)	0.002(0.003)	0.002(0.003)	0.002(0.003)
WR3									
Grades Run Block	-0.008(0.013)	-0.009(0.015)	-0.011(0.016)	0.024(0.024)	0.031(0.029)	0.031(0.030)	0.001(0.004)	0.001(0.004)	0.001(0.003)
Short Yards	-0.012(0.011)	-0.015(0.012)	-0.014(0.012)	0.010(0.012)	0.010(0.013)	0.012(0.014)	-0.002(0.003)	-0.003(0.003)	-0.002(0.003)
Medium Yards	-0.018(0.011)	-0.022(0.012)*	-0.023(0.013)*	0.003(0.011)	0.003(0.012)	0.003(0.013)	0.003(0.003)	0.003(0.003)	0.003(0.003)
Deep Yards	0.015(0.010)	0.019(0.011)*	0.019(0.011)*	0.002(0.010)	0.003(0.011)	0.003(0.012)	0.000(0.003)	0.001(0.003)	0.001(0.003)
TE1									
Grades Pass Block	0.025(0.011)**	0.032(0.013)**	0.033(0.014)**	0.024(0.011)**	0.032(0.013)**	0.033(0.013)**	-0.001(0.003)	-0.002(0.003)	-0.001(0.003)
Grades Run Block	-0.018(0.014)	-0.023(0.016)	-0.025(0.017)	-0.009(0.011)	-0.012(0.013)	-0.013(0.014)	0.003(0.004)	0.004(0.004)	0.003(0.004)
Short Yards	0.003(0.011)	0.003(0.013)	0.003(0.013)	-0.007(0.011)	-0.009(0.012)	-0.010(0.013)	0.002(0.003)	0.003(0.004)	0.001(0.003)
Medium Yards	-0.014(0.011)	-0.018(0.012)	-0.018(0.013)	0.008(0.010)	0.008(0.012)	0.008(0.012)	-0.000(0.003)	-0.002(0.004)	-0.001(0.003)
Deep Yards	-0.010(0.010)	-0.013(0.011)	-0.013(0.012)	-0.004(0.009)	-0.005(0.010)	-0.005(0.011)	-0.001(0.003)	-0.001(0.003)	-0.001(0.003)
OL1									
Grades Pass Block	0.013(0.012)	0.017(0.013)	0.018(0.014)	-0.011(0.010)	-0.014(0.011)	-0.014(0.012)	-0.004(0.003)	-0.004(0.003)	-0.003(0.003)
Grades Run Block	0.006(0.014)	0.008(0.016)	0.007(0.016)	0.006(0.010)	0.007(0.012)	0.008(0.012)	0.001(0.004)	0.000(0.004)	0.000(0.004)
OL2									
Grades Pass Block	-0.008(0.012)	-0.010(0.013)	-0.011(0.014)	-0.004(0.010)	-0.005(0.011)	-0.005(0.012)	-0.001(0.003)	-0.002(0.003)	-0.002(0.003)
Grades Run Block	-0.004(0.014)	-0.004(0.016)	-0.004(0.016)	-0.013(0.010)	-0.017(0.011)	-0.018(0.012)	0.004(0.004)	0.006(0.004)	0.006(0.004)
OL3									
Grades Pass Block	0.010(0.012)	0.011(0.013)	0.013(0.014)	0.008(0.009)	0.010(0.011)	0.010(0.011)	0.001(0.003)	0.001(0.004)	0.001(0.003)
Grades Run Block	-0.014(0.014)	-0.018(0.016)	-0.019(0.017)	0.003(0.009)	0.006(0.011)	0.005(0.011)	-0.004(0.004)	-0.004(0.004)	-0.004(0.004)
OL4									
Grades Pass Block	0.020(0.012)*	0.023(0.014)	0.025(0.015)*	0.005(0.010)	0.005(0.011)	0.006(0.012)	-0.002(0.003)	-0.003(0.003)	-0.002(0.003)
Grades Run Block	-0.006(0.013)	-0.007(0.015)	-0.009(0.015)	-0.012(0.010)	-0.014(0.011)	-0.015(0.011)	0.000(0.004)	0.001(0.004)	0.001(0.003)
OL5									
Grades Pass Block	0.022(0.012)*	0.025(0.014)*	0.026(0.015)*	-0.012(0.010)	-0.015(0.012)	-0.016(0.012)	0.001(0.003)	0.003(0.004)	0.002(0.003)
Grades Run Block	-0.023(0.013)*	-0.029(0.015)*	-0.029(0.016)*	0.010(0.010)	0.011(0.012)	0.011(0.012)	-0.001(0.004)	-0.002(0.004)	-0.002(0.003)
Perf. Measures									
GIMR	0.007(0.002)***	0.008(0.002)***	0.008(0.002)***	0.007(0.002)***	0.008(0.002)***	0.008(0.002)***			
Control Variables									
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
Player Presence	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
Control Def. Players	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Control Off. Players	No	No	No	No	No	No	No	No	No

Note:
Marginal effects reported with standard errors in parentheses and significance levels.
* * p < 0.10, ** p < 0.05, *** p < 0.01

Table 3: Offense Completions Model Results

Variable	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
Quarterbacks									
Short Completions	0.023(0.014)*	0.028(0.016)*	0.027(0.016)*	0.029(0.014)**	0.035(0.016)**	0.035(0.017)**	-0.001(0.004)	-0.001(0.004)	0.000(0.004)
Medium Completions	0.024(0.014)*	0.034(0.016)**	0.033(0.017)**	0.001(0.015)	0.003(0.017)	0.002(0.017)	0.008(0.004)*	0.006(0.004)	0.005(0.004)
Deep Completions	-0.033(0.012)***	-0.041(0.014)***	-0.042(0.015)***	-0.026(0.012)**	-0.032(0.014)**	-0.032(0.014)**	0.005(0.004)	0.004(0.004)	0.004(0.003)
Running Backs									
Grades Pass Block	-0.017(0.010)*	-0.020(0.011)*	-0.021(0.012)*	0.010(0.009)	0.011(0.010)	0.012(0.011)	-0.004(0.003)	-0.006(0.003)*	-0.005(0.003)*
Attempts	0.001(0.010)	0.003(0.011)	0.003(0.012)	0.014(0.009)	0.017(0.010)	0.017(0.011)	0.003(0.003)	0.003(0.003)	0.003(0.003)
Short Receptions	-0.003(0.010)	-0.004(0.012)	-0.004(0.012)	-0.017(0.010)*	-0.020(0.011)*	-0.019(0.011)*	0.002(0.003)	0.003(0.003)	0.003(0.003)
Medium Receptions	-0.016(0.009)*	-0.018(0.010)*	-0.019(0.010)*	-0.008(0.008)	-0.009(0.009)	-0.010(0.010)	-0.004(0.003)	-0.005(0.003)*	-0.004(0.002)*
Deep Receptions	-0.002(0.009)	-0.000(0.011)	-0.001(0.012)	-0.005(0.009)	-0.006(0.010)	-0.007(0.010)	-0.001(0.003)	-0.001(0.003)	-0.001(0.002)
WR1									
Grades Run Block	0.008(0.015)	0.007(0.017)	0.008(0.018)	-0.009(0.019)	-0.013(0.022)	-0.012(0.023)	-0.003(0.004)	-0.003(0.004)	-0.002(0.004)
Short Receptions	-0.007(0.011)	-0.009(0.012)	-0.009(0.012)	-0.003(0.011)	-0.005(0.012)	-0.005(0.013)	-0.002(0.003)	-0.002(0.003)	-0.002(0.003)
Medium Receptions	0.005(0.011)	0.006(0.013)	0.007(0.014)	-0.003(0.011)	-0.001(0.013)	-0.002(0.013)	-0.002(0.003)	-0.002(0.003)	-0.001(0.003)
Deep Receptions	0.023(0.010)**	0.027(0.012)**	0.029(0.012)**	0.015(0.010)	0.018(0.012)	0.018(0.012)	0.001(0.003)	0.001(0.003)	0.001(0.003)
WR2									
Grades Run Block	-0.022(0.015)	-0.026(0.017)	-0.027(0.018)	0.043(0.034)	0.052(0.040)	0.055(0.042)	0.002(0.004)	0.003(0.004)	0.003(0.004)
Short Receptions	-0.011(0.010)	-0.012(0.012)	-0.013(0.012)	-0.004(0.012)	-0.005(0.013)	-0.005(0.014)	0.005(0.003)*	0.004(0.003)	0.003(0.003)
Medium Receptions	-0.004(0.011)	-0.006(0.013)	-0.005(0.013)	-0.011(0.013)	-0.011(0.014)	-0.013(0.015)	-0.003(0.003)	-0.004(0.003)	-0.003(0.003)
Deep Receptions	0.011(0.010)	0.014(0.012)	0.014(0.012)	0.008(0.010)	0.010(0.012)	0.010(0.012)	0.002(0.003)	0.002(0.003)	0.002(0.003)
WR3									
Grades Run Block	-0.008(0.013)	-0.010(0.015)	-0.011(0.016)	0.020(0.024)	0.027(0.029)	0.027(0.030)	0.000(0.004)	0.001(0.004)	0.001(0.003)
Short Receptions	-0.013(0.011)	-0.016(0.012)	-0.016(0.013)	0.013(0.012)	0.014(0.014)	0.016(0.015)	-0.000(0.003)	-0.001(0.003)	-0.001(0.003)
Medium Receptions	-0.014(0.012)	-0.019(0.013)	-0.019(0.014)	0.004(0.012)	0.004(0.013)	0.003(0.014)	0.002(0.003)	0.002(0.003)	0.001(0.003)
Deep Receptions	0.010(0.010)	0.013(0.011)	0.013(0.012)	0.006(0.010)	0.007(0.012)	0.007(0.012)	0.000(0.003)	0.001(0.003)	0.001(0.003)
TE1									
Grades Pass Block	0.026(0.011)**	0.033(0.013)**	0.035(0.014)**	0.026(0.011)**	0.034(0.013)***	0.035(0.013)***	-0.002(0.003)	-0.002(0.003)	-0.002(0.003)
Grades Run Block	-0.018(0.014)	-0.023(0.016)	-0.025(0.017)	-0.008(0.011)	-0.011(0.013)	-0.012(0.014)	0.003(0.004)	0.004(0.004)	0.003(0.004)
Short Receptions	0.001(0.012)	0.002(0.013)	0.002(0.014)	-0.015(0.011)	-0.018(0.012)	-0.019(0.013)	0.003(0.004)	0.004(0.004)	0.002(0.003)
Medium Receptions	-0.017(0.011)	-0.022(0.013)*	-0.023(0.013)*	0.008(0.011)	0.008(0.012)	0.009(0.013)	-0.000(0.004)	-0.001(0.004)	-0.001(0.003)
Deep Receptions	-0.006(0.010)	-0.009(0.011)	-0.009(0.012)	0.001(0.009)	0.001(0.011)	0.001(0.011)	-0.003(0.003)	-0.003(0.003)	-0.002(0.003)
OL1									
Grades Pass Block	0.014(0.012)	0.017(0.013)	0.018(0.014)	-0.011(0.010)	-0.013(0.011)	-0.014(0.012)	-0.004(0.003)	-0.004(0.003)	-0.003(0.003)
Grades Run Block	0.006(0.014)	0.008(0.016)	0.008(0.016)	0.006(0.010)	0.007(0.012)	0.009(0.012)	0.002(0.004)	0.000(0.004)	0.001(0.004)
OL2									
Grades Pass Block	-0.008(0.012)	-0.010(0.013)	-0.010(0.014)	-0.003(0.010)	-0.004(0.011)	-0.004(0.012)	-0.000(0.003)	-0.002(0.003)	-0.002(0.003)
Grades Run Block	-0.003(0.014)	-0.004(0.016)	-0.004(0.016)	-0.012(0.010)	-0.016(0.011)	-0.017(0.012)	0.004(0.004)	0.006(0.004)	0.006(0.004)*
OL3									
Grades Pass Block	0.011(0.012)	0.012(0.013)	0.014(0.014)	0.008(0.009)	0.010(0.011)	0.010(0.011)	0.001(0.003)	0.001(0.004)	0.001(0.003)
Grades Run Block	-0.014(0.014)	-0.018(0.016)	-0.019(0.017)	0.003(0.009)	0.006(0.011)	0.006(0.011)	-0.003(0.004)	-0.004(0.004)	-0.004(0.004)
OL4									
Grades Pass Block	0.021(0.012)*	0.024(0.014)*	0.026(0.015)*	0.005(0.010)	0.006(0.011)	0.007(0.012)	-0.002(0.003)	-0.003(0.003)	-0.002(0.003)
Grades Run Block	-0.006(0.013)	-0.008(0.015)	-0.009(0.016)	-0.012(0.010)	-0.014(0.011)	-0.015(0.011)	0.001(0.004)	0.002(0.004)	0.001(0.003)
OL5									
Grades Pass Block	0.024(0.012)**	0.027(0.014)*	0.029(0.015)**	-0.012(0.010)	-0.015(0.012)	-0.016(0.012)	0.001(0.003)	0.003(0.004)	0.002(0.003)
Grades Run Block	-0.024(0.013)*	-0.029(0.015)*	-0.030(0.016)*	0.009(0.010)	0.010(0.012)	0.010(0.012)	-0.001(0.004)	-0.002(0.004)	-0.002(0.003)
Perf. Measures									
GIMR	0.008(0.002)***	0.010(0.003)***	0.010(0.003)***	0.008(0.002)***	0.010(0.003)***	0.010(0.003)***			
Control Variables									
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
Player Presence	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
Control Def. Players	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Control Off. Players	No	No	No	No	No	No	No	No	No

Note:
Marginal effects reported with standard errors in parentheses and significance levels.
* * p < 0.10, ** p < 0.05, *** p < 0.01

Table 4: Defense Stops Model Results

	Starter Models			On-Field Models			Attempt Models		
Variable	Starter LPM	Starter Probit	Starter Logit	On-Field LPM	On-Field Probit	On-Field Logit	Attempt LPM	Attempt Probit	Attempt Logit
DL1									
Grades Stops	-0.002(0.009)	-0.003(0.010)	-0.002(0.011)	-0.007(0.009)	-0.009(0.010)	-0.009(0.011)	0.002(0.003)	0.002(0.003)	0.002(0.002)
Productivity Stops	0.016(0.009)*	0.019(0.010)*	0.020(0.011)*	-0.004(0.009)	-0.003(0.010)	-0.004(0.010)	-0.001(0.003)	-0.001(0.003)	-0.001(0.002)
DL2									
Grades Stops	0.008(0.009)	0.010(0.010)	0.009(0.011)	0.011(0.009)	0.014(0.011)	0.013(0.011)	0.002(0.003)	0.002(0.003)	0.001(0.002)
Productivity Stops	-0.001(0.009)	-0.000(0.010)	-0.000(0.010)	-0.014(0.009)	-0.017(0.010)	-0.017(0.011)	-0.006(0.003)**	-0.005(0.003)*	-0.004(0.002)*
DL3									
Grades Stops	-0.005(0.009)	-0.006(0.010)	-0.006(0.011)	0.007(0.011)	0.007(0.013)	0.006(0.013)	-0.001(0.003)	-0.002(0.003)	-0.002(0.002)
Productivity Stops	0.001(0.009)	0.000(0.010)	0.001(0.011)	-0.008(0.010)	-0.009(0.011)	-0.010(0.012)	-0.001(0.003)	0.001(0.003)	0.000(0.002)
DL4									
Grades Stops	-0.008(0.009)	-0.011(0.011)	-0.011(0.011)	-0.000(0.011)	-0.000(0.013)	0.000(0.014)	-0.000(0.003)	-0.002(0.003)	-0.001(0.002)
Productivity Stops	-0.003(0.009)	-0.004(0.010)	-0.004(0.010)	-0.021(0.010)**	-0.025(0.012)**	-0.027(0.012)**	-0.005(0.003)**	-0.004(0.003)*	-0.004(0.002)
LB1									
Grades Stops	0.033(0.010)***	0.040(0.011)***	0.041(0.011)***	-0.001(0.010)	-0.001(0.011)	-0.002(0.012)	0.003(0.003)	0.003(0.003)	0.003(0.003)
Zone Stops	-0.010(0.010)	-0.010(0.011)	-0.010(0.011)	-0.003(0.010)	-0.003(0.012)	-0.004(0.012)	0.000(0.003)	0.001(0.003)	0.001(0.003)
Man Stops	0.007(0.009)	0.008(0.011)	0.008(0.011)	-0.001(0.009)	-0.001(0.010)	-0.000(0.011)	-0.003(0.003)	-0.003(0.003)	-0.002(0.002)
LB2									
Grades Stops	0.012(0.010)	0.016(0.011)	0.016(0.012)	-0.018(0.010)*	-0.020(0.012)*	-0.022(0.012)*	0.002(0.003)	0.004(0.003)	0.003(0.003)
Zone Stops	-0.008(0.010)	-0.011(0.011)	-0.011(0.012)	0.011(0.010)	0.012(0.012)	0.013(0.012)	-0.002(0.003)	-0.003(0.003)	-0.003(0.003)
Man Stops	0.018(0.009)*	0.023(0.011)**	0.024(0.011)**	-0.013(0.010)	-0.015(0.011)	-0.016(0.011)	0.001(0.003)	-0.000(0.003)	0.000(0.002)
LB3									
Grades Stops	0.019(0.010)*	0.022(0.012)*	0.023(0.012)*	-0.010(0.013)	-0.012(0.014)	-0.013(0.015)	0.001(0.003)	0.002(0.003)	0.002(0.003)
Zone Stops	-0.004(0.010)	-0.003(0.011)	-0.004(0.012)	0.010(0.011)	0.011(0.012)	0.011(0.013)	-0.002(0.003)	-0.002(0.003)	-0.002(0.003)
Man Stops	-0.004(0.009)	-0.004(0.011)	-0.004(0.011)	-0.002(0.009)	-0.001(0.011)	-0.002(0.011)	-0.000(0.003)	-0.000(0.003)	0.000(0.002)
LB4									
Grades Stops	0.002(0.011)	0.004(0.012)	0.003(0.013)	-0.001(0.013)	-0.003(0.014)	-0.004(0.015)	-0.001(0.003)	0.000(0.003)	-0.001(0.003)
Zone Stops	-0.010(0.010)	-0.014(0.012)	-0.013(0.012)	-0.000(0.011)	0.001(0.013)	0.002(0.014)	0.002(0.003)	0.001(0.003)	0.001(0.003)
Man Stops	0.010(0.009)	0.012(0.011)	0.012(0.011)	0.000(0.009)	0.000(0.010)	0.001(0.011)	-0.003(0.003)	-0.002(0.003)	-0.002(0.003)
CB1									
Grades Stops	-0.008(0.009)	-0.009(0.010)	-0.010(0.010)	0.017(0.009)*	0.019(0.011)*	0.021(0.011)*	0.002(0.003)	0.003(0.003)	0.003(0.002)
Zone Stops	-0.018(0.009)**	-0.022(0.011)**	-0.023(0.011)**	0.011(0.009)	0.013(0.011)	0.014(0.011)	0.003(0.003)	0.003(0.003)	0.002(0.002)
Man Stops	0.005(0.009)	0.006(0.010)	0.006(0.010)	0.012(0.009)	0.014(0.010)	0.014(0.011)	-0.004(0.003)	-0.004(0.003)	-0.004(0.002)
CB2									
Grades Stops	0.004(0.009)	0.004(0.010)	0.005(0.010)	0.001(0.009)	0.001(0.011)	0.002(0.011)	-0.004(0.003)	-0.004(0.003)	-0.004(0.002)
Zone Stops	-0.001(0.009)	-0.002(0.010)	-0.002(0.011)	0.002(0.009)	0.004(0.011)	0.003(0.011)	0.003(0.003)	0.003(0.003)	0.003(0.002)
Man Stops	-0.014(0.009)	-0.016(0.010)	-0.016(0.010)	0.001(0.009)	0.000(0.010)	-0.000(0.011)	0.004(0.003)	0.004(0.003)	0.003(0.002)
CB3									
Grades Stops	-0.020(0.009)**	-0.023(0.010)**	-0.024(0.011)**	0.000(0.009)	-0.001(0.011)	-0.001(0.011)	-0.001(0.003)	-0.000(0.003)	-0.000(0.002)
Zone Stops	0.000(0.009)	0.002(0.011)	0.002(0.011)	0.004(0.010)	0.006(0.012)	0.007(0.012)	0.002(0.003)	0.002(0.003)	0.001(0.002)
Man Stops	-0.008(0.009)	-0.011(0.010)	-0.011(0.011)	0.010(0.009)	0.010(0.010)	0.012(0.011)	0.006(0.003)**	0.006(0.003)**	0.006(0.002)**
S1									
Grades Stops	-0.001(0.010)	0.001(0.011)	0.001(0.012)	-0.003(0.010)	-0.003(0.011)	-0.005(0.012)	0.005(0.003)*	0.006(0.003)**	0.005(0.003)*
Zone Stops	-0.005(0.009)	-0.007(0.011)	-0.007(0.011)	-0.002(0.009)	-0.002(0.011)	-0.003(0.011)	0.002(0.003)	0.001(0.003)	0.001(0.003)
Man Stops	0.002(0.009)	0.002(0.011)	0.002(0.011)	0.008(0.010)	0.009(0.011)	0.010(0.011)	-0.006(0.003)**	-0.006(0.003)**	-0.005(0.002)**
S2									
Grades Stops	0.008(0.010)	0.011(0.011)	0.011(0.012)	0.018(0.010)*	0.022(0.012)*	0.023(0.012)*	0.002(0.003)	0.001(0.003)	0.001(0.003)
Zone Stops	-0.000(0.009)	-0.001(0.011)	0.000(0.011)	-0.006(0.010)	-0.005(0.012)	-0.006(0.012)	0.003(0.003)	0.004(0.003)	0.003(0.002)
Man Stops	-0.003(0.009)	-0.003(0.010)	-0.003(0.011)	-0.004(0.009)	-0.006(0.011)	-0.007(0.011)	-0.000(0.003)	-0.001(0.003)	-0.001(0.002)
S3									
Grades Stops	0.017(0.010)*	0.020(0.011)*	0.021(0.012)*	-0.005(0.011)	-0.006(0.013)	-0.007(0.013)	-0.002(0.003)	-0.002(0.003)	-0.001(0.003)
Zone Stops	-0.009(0.010)	-0.011(0.011)	-0.012(0.012)	0.002(0.011)	0.001(0.012)	0.001(0.013)	0.001(0.003)	0.000(0.003)	0.000(0.003)
Man Stops	-0.007(0.009)	-0.010(0.011)	-0.009(0.011)	0.013(0.010)	0.016(0.011)	0.017(0.012)	0.001(0.003)	0.002(0.003)	0.001(0.003)
Perf. Measures									
GIMR	0.008(0.003)***	0.009(0.004)**	0.010(0.003)***	0.007(0.003)***	0.008(0.004)**	0.009(0.003)***			
Control Variables									
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
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:
Marginal effects reported with standard errors in parentheses and significance levels.
* * p < 0.10, ** p < 0.05, *** p < 0.01

Table 5: Defense Grades Model Results

	Starter Models			On-Field Models			Attempt Models		
Variable	Starter LPM	Starter Probit	Starter Logit	On-Field LPM	On-Field Probit	On-Field Logit	Attempt LPM	Attempt Probit	Attempt Logit
DL1									
Grades Run Defense	0.002(0.015)	0.002(0.018)	0.001(0.018)	-0.004(0.011)	-0.005(0.013)	-0.004(0.013)	-0.006(0.004)	-0.005(0.005)	-0.004(0.004)
Grds Pass Rush Def	0.009(0.015)	0.013(0.017)	0.014(0.018)	-0.015(0.011)	-0.019(0.013)	-0.020(0.013)	0.008(0.004)*	0.009(0.004)*	0.008(0.004)**
DL2									
Grades Run Defense	0.025(0.015)*	0.031(0.017)*	0.031(0.018)*	0.006(0.024)	0.010(0.027)	0.008(0.028)	-0.002(0.004)	-0.002(0.005)	-0.001(0.004)
Grds Pass Rush Def	-0.017(0.014)	-0.020(0.016)	-0.022(0.017)	-0.019(0.023)	-0.025(0.026)	-0.024(0.028)	-0.003(0.004)	-0.003(0.004)	-0.004(0.004)
DL3									
Grades Run Defense	-0.005(0.015)	-0.007(0.017)	-0.007(0.018)	-0.014(0.042)	-0.020(0.047)	-0.019(0.048)	-0.004(0.004)	-0.007(0.005)	-0.006(0.004)
Grds Pass Rush Def	0.003(0.015)	0.006(0.017)	0.005(0.017)	-0.001(0.045)	0.006(0.051)	-0.002(0.053)	0.001(0.004)	0.004(0.004)	0.003(0.004)
DL4									
Grades Run Defense	0.012(0.015)	0.012(0.017)	0.014(0.017)	-0.042(0.051)	-0.053(0.058)	-0.055(0.060)	0.000(0.004)	-0.002(0.005)	-0.001(0.004)
Grds Pass Rush Def	-0.004(0.015)	-0.003(0.017)	-0.005(0.017)	-0.019(0.053)	-0.019(0.060)	-0.024(0.062)	-0.002(0.004)	0.000(0.005)	-0.001(0.004)
LB1									
Grades Run Defense	0.028(0.013)**	0.034(0.015)**	0.035(0.016)**	0.006(0.010)	0.006(0.012)	0.006(0.012)	0.001(0.004)	0.000(0.004)	-0.000(0.003)
Man Grades Cov Def	-0.022(0.009)**	-0.028(0.011)**	-0.028(0.012)**	0.005(0.008)	0.007(0.010)	0.006(0.010)	0.002(0.003)	0.003(0.003)	0.003(0.003)
Zone Grades Cov Def	-0.007(0.012)	-0.008(0.014)	-0.008(0.015)	-0.002(0.010)	-0.004(0.011)	-0.003(0.012)	-0.005(0.004)	-0.004(0.004)	-0.004(0.003)
LB2									
Grades Run Defense	0.027(0.013)**	0.034(0.015)**	0.035(0.016)**	-0.015(0.017)	-0.016(0.020)	-0.017(0.020)	0.002(0.004)	0.004(0.004)	0.003(0.004)
Man Grades Cov Def	-0.011(0.010)	-0.013(0.012)	-0.014(0.012)	0.004(0.013)	0.006(0.015)	0.006(0.016)	-0.001(0.003)	-0.002(0.003)	-0.001(0.003)
Zone Grades Cov Def	-0.014(0.012)	-0.017(0.013)	-0.017(0.014)	0.014(0.017)	0.014(0.019)	0.015(0.020)	0.002(0.003)	0.003(0.003)	0.002(0.003)
LB3									
Grades Run Defense	-0.004(0.013)	-0.004(0.015)	-0.005(0.016)	-0.034(0.036)	-0.038(0.042)	-0.042(0.043)	-0.002(0.004)	-0.003(0.004)	-0.003(0.003)
Man Grades Cov Def	0.018(0.011)	0.021(0.013)*	0.022(0.013)*	0.019(0.019)	0.022(0.021)	0.023(0.022)	0.005(0.003)*	0.004(0.003)	0.004(0.003)
Zone Grades Cov Def	-0.001(0.012)	-0.002(0.014)	-0.001(0.015)	-0.042(0.028)	-0.050(0.032)	-0.054(0.034)	0.005(0.004)	0.006(0.004)*	0.005(0.003)*
LB4									
Grades Run Defense	-0.029(0.012)**	-0.033(0.013)**	-0.036(0.014)***	0.033(0.040)	0.034(0.045)	0.036(0.047)	0.002(0.003)	0.002(0.004)	0.002(0.003)
Man Grades Cov Def	0.023(0.012)**	0.029(0.013)**	0.030(0.014)**	-0.003(0.018)	-0.006(0.021)	-0.006(0.022)	-0.000(0.003)	-0.001(0.003)	-0.000(0.003)
Zone Grades Cov Def	0.003(0.013)	0.004(0.015)	0.005(0.016)	-0.004(0.029)	-0.002(0.035)	-0.003(0.036)	-0.001(0.004)	-0.002(0.004)	-0.002(0.003)
CB1									
Grades Run Defense	-0.013(0.015)	-0.015(0.017)	-0.015(0.018)	0.009(0.016)	0.012(0.018)	0.012(0.019)	-0.002(0.004)	-0.002(0.004)	-0.002(0.004)
Man Grades Cov Def	-0.010(0.013)	-0.014(0.015)	-0.013(0.015)	-0.029(0.014)**	-0.034(0.016)**	-0.036(0.016)**	0.000(0.004)	0.001(0.004)	0.001(0.004)
Zone Grades Cov Def	0.008(0.015)	0.011(0.017)	0.010(0.017)	-0.012(0.015)	-0.014(0.017)	-0.014(0.018)	0.000(0.004)	-0.001(0.004)	-0.001(0.004)
CB2									
Grades Run Defense	0.034(0.014)**	0.042(0.016)***	0.044(0.017)***	-0.020(0.020)	-0.022(0.023)	-0.024(0.023)	-0.008(0.004)*	-0.005(0.004)	-0.006(0.004)
Man Grades Cov Def	-0.014(0.012)	-0.019(0.014)	-0.019(0.014)	0.008(0.018)	0.009(0.021)	0.009(0.022)	-0.004(0.004)	-0.004(0.004)	-0.003(0.003)
Zone Grades Cov Def	-0.011(0.014)	-0.014(0.016)	-0.015(0.017)	-0.007(0.021)	-0.008(0.024)	-0.008(0.025)	0.002(0.004)	0.000(0.004)	0.001(0.004)
CB3									
Grades Run Defense	-0.018(0.012)	-0.025(0.014)*	-0.024(0.014)*	0.033(0.033)	0.042(0.037)	0.042(0.039)	-0.005(0.004)	-0.006(0.004)*	-0.006(0.003)*
Man Grades Cov Def	0.019(0.012)	0.026(0.014)*	0.027(0.015)*	0.001(0.030)	0.005(0.033)	0.006(0.034)	0.011(0.004)***	0.010(0.004)***	0.009(0.003)***
Zone Grades Cov Def	-0.011(0.013)	-0.012(0.016)	-0.014(0.016)	0.027(0.034)	0.031(0.038)	0.032(0.040)	0.002(0.004)	0.004(0.004)	0.004(0.004)
S1									
Grades Run Defense	0.002(0.016)	0.003(0.018)	0.004(0.019)	-0.020(0.013)	-0.023(0.015)	-0.024(0.016)	-0.003(0.005)	-0.004(0.005)	-0.002(0.004)
Man Grades Cov Def	-0.006(0.014)	-0.005(0.016)	-0.007(0.017)	-0.000(0.012)	-0.001(0.015)	-0.002(0.016)	-0.003(0.004)	-0.005(0.004)	-0.005(0.004)
Zone Grades Cov Def	-0.005(0.014)	-0.007(0.017)	-0.007(0.017)	0.013(0.012)	0.018(0.014)	0.018(0.015)	0.006(0.004)	0.006(0.004)	0.006(0.004)
S2									
Grades Run Defense	-0.009(0.015)	-0.011(0.018)	-0.012(0.019)	-0.004(0.027)	-0.006(0.030)	-0.008(0.031)	-0.002(0.005)	-0.004(0.005)	-0.003(0.004)
Man Grades Cov Def	-0.008(0.013)	-0.009(0.015)	-0.009(0.016)	-0.008(0.025)	-0.010(0.030)	-0.010(0.031)	0.003(0.004)	0.003(0.004)	0.002(0.004)
Zone Grades Cov Def	-0.005(0.014)	-0.007(0.016)	-0.007(0.016)	0.006(0.026)	0.010(0.030)	0.011(0.032)	0.002(0.005)	0.002(0.005)	0.003(0.004)
S3									
Grades Run Defense	-0.007(0.013)	-0.007(0.015)	-0.007(0.016)	0.010(0.044)	0.012(0.053)	0.010(0.056)	-0.002(0.004)	-0.001(0.004)	-0.000(0.003)
Man Grades Cov Def	-0.003(0.013)	-0.004(0.015)	-0.005(0.016)	-0.017(0.043)	-0.016(0.049)	-0.017(0.051)	0.004(0.004)	0.003(0.004)	0.003(0.003)
Zone Grades Cov Def	0.020(0.015)	0.024(0.017)	0.025(0.018)	0.017(0.047)	0.016(0.055)	0.019(0.059)	-0.005(0.004)	-0.004(0.004)	-0.005(0.004)
Perf. Measures									
GIMR	0.008(0.002)***	0.009(0.002)***	0.010(0.002)***	0.008(0.002)***	0.009(0.002)***	0.009(0.002)***			
Control Variables									
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
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:
Marginal effects reported with standard errors in parentheses and significance levels.
* * p < 0.10, ** p < 0.05, *** p < 0.01

Table 6: Defense Tackles Model Results

	Starter Models			On-Field Models			Attempt Models		
Variable	Starter LPM	Starter Probit	Starter Logit	On-Field LPM	On-Field Probit	On-Field Logit	Attempt LPM	Attempt Probit	Attempt Logit
DL1									
Grades Tackles	-0.004(0.009)	-0.005(0.010)	-0.005(0.011)	-0.009(0.009)	-0.010(0.010)	-0.011(0.010)	0.001(0.003)	0.001(0.003)	0.001(0.002)
Productivity Sacks	0.011(0.009)	0.014(0.010)	0.014(0.011)	-0.006(0.009)	-0.007(0.010)	-0.008(0.011)	0.000(0.003)	0.000(0.003)	-0.000(0.002)
DL2									
Grades Tackles	0.010(0.009)	0.012(0.010)	0.012(0.011)	0.016(0.009)*	0.020(0.011)*	0.020(0.011)*	0.002(0.003)	0.002(0.003)	0.001(0.002)
Productivity Sacks	-0.000(0.009)	0.001(0.010)	-0.000(0.010)	-0.009(0.009)	-0.010(0.010)	-0.010(0.011)	-0.006(0.003)**	-0.005(0.003)*	-0.005(0.002)*
DL3									
Grades Tackles	-0.006(0.009)	-0.008(0.010)	-0.008(0.011)	0.001(0.012)	-0.000(0.013)	-0.001(0.014)	0.002(0.003)	0.001(0.003)	0.001(0.002)
Productivity Sacks	-0.002(0.009)	-0.002(0.010)	-0.002(0.010)	-0.001(0.010)	-0.000(0.011)	-0.001(0.012)	-0.002(0.003)	-0.001(0.003)	-0.001(0.002)
DL4									
Grades Tackles	-0.009(0.010)	-0.013(0.011)	-0.012(0.011)	0.008(0.012)	0.010(0.014)	0.010(0.014)	-0.000(0.003)	-0.002(0.003)	-0.001(0.002)
Productivity Sacks	-0.002(0.009)	-0.002(0.010)	-0.003(0.011)	-0.017(0.010)*	-0.020(0.011)*	-0.020(0.012)*	-0.006(0.003)**	-0.004(0.003)*	-0.004(0.002)*
LB1									
Grades Tackles	0.021(0.012)*	0.025(0.014)*	0.026(0.014)*	0.012(0.011)	0.015(0.013)	0.015(0.014)	0.004(0.003)	0.004(0.003)	0.004(0.003)
Man Tackles	0.005(0.011)	0.006(0.012)	0.007(0.013)	-0.003(0.011)	-0.004(0.012)	-0.004(0.013)	-0.004(0.003)	-0.004(0.003)	-0.004(0.003)
Zone Tackles	-0.008(0.012)	-0.009(0.014)	-0.010(0.015)	-0.013(0.013)	-0.016(0.015)	-0.015(0.015)	0.000(0.004)	0.002(0.004)	0.001(0.003)
LB2									
Grades Tackles	-0.002(0.012)	-0.001(0.013)	-0.001(0.014)	-0.024(0.012)*	-0.028(0.014)**	-0.029(0.015)**	0.007(0.003)*	0.009(0.004)**	0.007(0.003)**
Man Tackles	0.007(0.011)	0.010(0.012)	0.010(0.013)	0.003(0.011)	0.003(0.012)	0.003(0.013)	-0.006(0.003)*	-0.007(0.003)**	-0.005(0.003)*
Zone Tackles	-0.001(0.012)	-0.003(0.014)	-0.003(0.015)	0.012(0.012)	0.014(0.014)	0.014(0.015)	-0.001(0.004)	-0.002(0.004)	-0.002(0.003)
LB3									
Grades Tackles	0.026(0.012)**	0.030(0.014)**	0.030(0.014)**	-0.018(0.016)	-0.022(0.018)	-0.023(0.018)	0.002(0.004)	0.002(0.004)	0.002(0.003)
Man Tackles	-0.001(0.010)	-0.001(0.012)	-0.001(0.013)	0.006(0.011)	0.009(0.012)	0.009(0.013)	-0.001(0.003)	-0.001(0.003)	0.000(0.003)
Zone Tackles	-0.017(0.013)	-0.019(0.014)	-0.019(0.015)	0.009(0.014)	0.010(0.016)	0.010(0.016)	-0.000(0.004)	-0.001(0.004)	-0.001(0.003)
LB4									
Grades Tackles	-0.018(0.012)	-0.020(0.014)	-0.022(0.014)	-0.002(0.015)	-0.005(0.017)	-0.005(0.018)	-0.001(0.004)	-0.001(0.004)	-0.001(0.003)
Man Tackles	0.008(0.011)	0.009(0.012)	0.010(0.012)	-0.016(0.011)	-0.019(0.012)	-0.019(0.013)	-0.004(0.003)	-0.005(0.003)	-0.004(0.003)
Zone Tackles	0.009(0.011)	0.010(0.013)	0.012(0.013)	0.015(0.013)	0.019(0.016)	0.020(0.016)	0.004(0.003)	0.003(0.003)	0.003(0.003)
CB1									
Grades Tackles	-0.013(0.009)	-0.014(0.010)	-0.015(0.011)	0.004(0.009)	0.005(0.010)	0.005(0.011)	0.002(0.003)	0.002(0.003)	0.002(0.002)
Man Tackles	-0.006(0.010)	-0.007(0.012)	-0.008(0.012)	0.023(0.010)**	0.027(0.012)**	0.028(0.012)**	-0.001(0.003)	0.000(0.003)	-0.000(0.003)
Zone Tackles	-0.015(0.010)	-0.017(0.011)	-0.017(0.011)	0.005(0.010)	0.007(0.011)	0.008(0.012)	0.003(0.003)	0.003(0.003)	0.003(0.003)
CB2									
Grades Tackles	0.021(0.009)**	0.025(0.010)**	0.026(0.011)**	0.001(0.010)	0.003(0.012)	0.003(0.012)	-0.005(0.003)**	-0.005(0.003)	-0.004(0.002)
Man Tackles	-0.009(0.010)	-0.010(0.011)	-0.010(0.012)	0.008(0.010)	0.009(0.012)	0.009(0.012)	-0.002(0.003)	-0.002(0.003)	-0.002(0.003)
Zone Tackles	-0.015(0.010)	-0.017(0.011)	-0.018(0.011)	-0.003(0.010)	-0.003(0.012)	-0.004(0.012)	0.002(0.003)	0.002(0.003)	0.003(0.003)
CB3									
Grades Tackles	-0.012(0.009)	-0.014(0.011)	-0.015(0.011)	0.002(0.011)	0.002(0.013)	0.002(0.013)	0.001(0.003)	0.002(0.003)	0.002(0.003)
Man Tackles	-0.010(0.010)	-0.013(0.012)	-0.012(0.012)	-0.007(0.011)	-0.008(0.013)	-0.008(0.013)	0.004(0.003)	0.003(0.003)	0.003(0.003)
Zone Tackles	-0.009(0.010)	-0.009(0.012)	-0.010(0.012)	0.002(0.013)	0.003(0.014)	0.003(0.015)	-0.001(0.003)	0.000(0.003)	-0.000(0.003)
S1									
Grades Tackles	0.009(0.010)	0.012(0.011)	0.012(0.012)	0.004(0.010)	0.005(0.011)	0.005(0.012)	0.004(0.003)	0.005(0.003)*	0.004(0.003)
Man Tackles	0.007(0.010)	0.009(0.012)	0.008(0.012)	0.003(0.010)	0.002(0.012)	0.004(0.012)	0.004(0.003)	0.004(0.003)	0.004(0.003)
Zone Tackles	-0.017(0.009)*	-0.021(0.011)*	-0.022(0.011)*	-0.001(0.010)	-0.001(0.011)	-0.002(0.012)	-0.003(0.003)	-0.003(0.003)	-0.003(0.002)
S2									
Grades Tackles	0.001(0.010)	0.002(0.011)	0.002(0.012)	0.008(0.012)	0.010(0.013)	0.010(0.014)	0.002(0.003)	0.001(0.003)	0.001(0.003)
Man Tackles	0.005(0.010)	0.006(0.012)	0.007(0.012)	-0.001(0.011)	0.001(0.013)	-0.001(0.013)	-0.002(0.003)	-0.003(0.003)	-0.001(0.003)
Zone Tackles	-0.006(0.010)	-0.007(0.011)	-0.008(0.012)	-0.002(0.012)	-0.004(0.014)	-0.004(0.014)	-0.003(0.003)	-0.003(0.003)	-0.003(0.003)
S3									
Grades Tackles	0.008(0.011)	0.010(0.012)	0.010(0.012)	0.014(0.013)	0.018(0.015)	0.019(0.016)	-0.000(0.003)	-0.001(0.003)	-0.000(0.003)
Man Tackles	-0.012(0.010)	-0.015(0.012)	-0.015(0.012)	-0.004(0.013)	-0.005(0.015)	-0.004(0.016)	0.003(0.003)	0.003(0.003)	0.003(0.003)
Zone Tackles	-0.003(0.011)	-0.004(0.013)	-0.005(0.013)	-0.008(0.014)	-0.011(0.016)	-0.012(0.017)	-0.001(0.003)	0.000(0.004)	-0.001(0.003)
Perf. Measures									
GIMR	0.007(0.002)***	0.009(0.002)***	0.009(0.003)***	0.006(0.002)***	0.008(0.002)***	0.008(0.003)***			
Control Variables									
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
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:
Marginal effects reported with standard errors in parentheses and significance levels.
* * p < 0.10, ** p < 0.05, *** p < 0.01