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## A. Criteria and Background

**Criteria.** For modern seasons where scramble data is available, it's 1.0 runs per game after subtracting scrambles and kneel downs. To determine kneel downs, APBA reviews all pertinent game logs. For older seasons, APBA decided to cap the scramble numbers at 4. Anyone who qualified for > 4 scramble numbers AND has > 1.0 runs per game gets an \*.

**Background.** I would be remiss if I didn't give Doug Reese credit for championing this innovation. It was his persistence that paid off for creating this great innovation that enhances accuracy and realistic play calling. Below is a chart of all quarterback cards coded with an asterisk in the 2024 APBA card set and an image of Lamar Jackson's 2024 card.

List of QB* Cards in 2024 APBA Set	
Team	Player
ARI	Kyler Murray
BAL	Lamar Jackson
BUF	Josh Allen
CHI	Caleb Williams
CLE	Jameis Winston
CLE	Deshawn Watson
CLE	Dorian Thompson-Robinson
DAL	Cooper Rush
DAL	Trey Lance
DEN	Bo Nix
GB	Malik Willis
IND	Anthony Richardson
LV	Aidan O'Connell
MIA	Tyler Huntley
NE	Joe Milton
NYG	Daniel Jones
PHI	Jalen Hurts
PIT	Russell Wilson
PIT	Justin Fields
SF	Brock Purdy
SF	Joshua Dobbs
TEN	Will Levis
TEN	Mason Rudolph
WAS	Jayden Daniels
WAS	Marcus Mariota



## B. Determine Called Runs & Dropbacks for QB\* (Data Available)

Pro-Football-Reference.com has the data available for the 2018 NFL season and beyond. Using Lamar Jackson's card as an example, I will demonstrate how to use Pro-Football Reference Advanced Stats to determine his exact number of scrambles to determine the exact number of called or designed runs.

Step 1. [2024 Baltimore Ravens Rosters, Stats, Schedule, Team Draftees, Injury Reports | Pro-Football-Reference.com](#)



### 2024 Baltimore Ravens Rosters, Stats, Schedule, Team Draftees, Injury Reports

« Previous Season
Next Season »

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**Record:** 12-5-0, 1st in [AFC North Division](#) ([Schedule and Results](#))  
**Coach:** [John Harbaugh](#) (12-5-0)  
**Points For:** 518 (30.5/g) 3rd of 32  
**Points Against:** 361 (21.2/g) 9th of 32  
**Expected W-L:** 11.9-5.1  
**SRS:** 9.87 (2nd of 32), **SOS:** .64  
**Playoffs:**  
[Won Wild Card 28-14](#) vs. [Pittsburgh Steelers](#)  
[Lost Divisional Round 25-27](#) vs. [Buffalo Bills](#)  
**Offensive Coordinator:** [Todd Monken](#)  
**Defensive Coordinator:** [Zach Orr](#)  
**Other Notable Asst.:** [George Godsey](#) (Tight Ends)  
**Stadium:** [M&T Bank Stadium](#)  
**Principal Owner:** [Steve Bisciotti](#)  
**General Manager/Executive VP:** [Eric DeCosta](#)  
**Offensive Scheme:** Air Coryell  
**Defensive Alignment:** 3-4  
**Preseason Odds:** [Super Bowl +1000](#); [O/U: 10.5](#)  
**Training Camp:** [Under Armour Performance Center \(Owings Mills, Maryland\)](#)

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2024 Ravens Statistics
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Step 2. Select Advance Stats hyperlink.

**Advanced Passing** ✦ Upgraded ✦

Share & Export ▾ Glossary Toggle Per-Game Stats Scroll Right For More Stats · Switch to Widescreen View ▶

		Passing										Air Yards										Accuracy										Pressure									
Rk	Player	Age	Pos	G	GS	Cmp	Att	IAY	IAY/PA	CAY	CAY/Cmp	CAV/PA	YAC	YAC/Cmp	Bats	ThAwy	Spikes	Drops	Drop%	BadTh	Bad%	OnTgt	OnTgt%	PktTime	Bltz	Hrry	Hits	Prss	Prss%	Scrm	Yds/Scr	Plays									
1	<a href="#">Lamar Jackson</a>	27	QB	17	17	316	474	4056	8.6	2087	6.6	4.4	2085	6.6	12	13	5	28	6.1	69	15.1	359	78.7	2.5	162	53	31	107	19.7	45	9.0	95									
2	<a href="#">Josh Johnson</a>	38	QB	6	0	2	3	53	17.7	15	7.5	5.0	2	1.0	0	0	0	0.0	0	0.0	3	100.0	2.4	1	1	1	3	75.0	0		1										
<b>Team Totals</b>				<b>17</b>	<b>17</b>	<b>318</b>	<b>477</b>	<b>4109</b>	<b>8.6</b>	<b>2102</b>	<b>6.6</b>	<b>4.4</b>	<b>2087</b>	<b>6.6</b>	<b>12</b>	<b>13</b>	<b>5</b>	<b>28</b>	<b>6.1</b>	<b>69</b>	<b>15.0</b>	<b>362</b>	<b>78.9</b>	<b>2.5</b>	<b>163</b>	<b>54</b>	<b>32</b>	<b>110</b>	<b>20.1</b>	<b>45</b>	<b>9.0</b>	<b>96</b>									

Pressure									
PktTime	Bltz	Hrry	Hits	Prss	Prss%	Scrm	Yds/Scr	Plays	
2.5	162	53	31	107	19.7	45	9.0	95	
2.4	1	1	1	3	75.0	0		1	
<b>2.5</b>	<b>163</b>	<b>54</b>	<b>32</b>	<b>110</b>	<b>20.1</b>	<b>45</b>	<b>9.0</b>	<b>96</b>	

Lamar Jackson had 45 scrambles during the 2024 NFL season.

Step 3. Determining Called Runs. Determine Lamar Jackson's total rushing attempts by viewing the Advanced Rushing table directly below Advanced Passing table.

**Advanced Rushing** ✨ Upgraded ✨ Share & Export ▼ Glossary Toggle Per-Game Stats

Regular Season		Playoffs		Rushing												Awards	
Rk	Player	Age	Pos	G	GS	Att	Yds	1D	YBC	YBC/Att	YAC	YAC/Att	BrkTkl	Att/Br	Awards		
1	<a href="#">Derrick Henry</a>	30	RB	17	17	325	1921	94	1012	3.1	909	2.8	42	7.7	PB, AP-2, AP OPoY-4		
2	<a href="#">Lamar Jackson</a>	27	QB	17	17	139	915	47	666	4.8	249	1.8	7	19.9	PB, AP-1, AP MVP-2, AP OPoY-2		
3	<a href="#">Justice Hill</a>	27	RB	15	0	47	228	14	90	1.9	138	2.9	6	7.8			
4	<a href="#">Keaton Mitchell</a>	22	RB	5	0	15	30	2	8	0.5	22	1.5	2	7.5			
5	<a href="#">Rasheen Ali</a>	23	RB	6	0	10	31	2	16	1.6	15	1.5	0				
6	<a href="#">Zay Flowers</a>	24	WR	17	15	9	56	1	27	3.0	29	3.2	1	9.0	PB		
7	<a href="#">Mark Andrews</a>	29	TE	17	13	4	5	3	1	0.3	4	1.0	0		AP CPoY-19		
8	<a href="#">Josh Johnson</a>	38	QB	6	0	4	1	0	-1	-0.3	2	0.5	0				
9	<a href="#">Charlie Kolar</a>	25	TE	13	3	1	2	1	2	2.0	0	0.0	0				
<b>Team Totals</b>				<b>17</b>	<b>17</b>	<b>554</b>	<b>3189</b>	<b>164</b>	<b>1821</b>	<b>3.3</b>	<b>1368</b>	<b>2.5</b>	<b>58</b>	<b>9.6</b>			

To determine his called or designed runs, subtract his 45 scrambles from his total rushing attempts 139 equals 94 designed/called rushing attempts (139-45=94). I would enter 94 into my Running Back locators. If manually calling the game, I would alternate between 5 and 6 called runs per game.

**Rushing (Running Backs Only)**

Name	Long	GP	Att	Att/Gm	Input				
ALI	9	6	10	1.6667	1.6667	0.0514	1	1	1
HENRY	87	17	325	19.118	19.118	0.5892	11.5	2	12
HILL	51	15	47	3.1333	3.1333	0.0966	1.88	13	14
JACKSON	48	17	94	5.5294	5.5294	0.1704	3.32	15	17
MITCHELL	7	5	15	3	3	0.0925	1.8	18	19

The next step is to determine Lamar Jackson's dropbacks for the 2024 NFL season. Dropbacks are determined by adding pass attempts + sacks + scrambles/games played (474+23+45/17=31.8 or 32). If using season dropback average to replay the season, the replayer would call 32 dropbacks per game to reach his attempts, scrambles and sack totals.

**Passing** ✨ Upgraded ✨ Share & Export ▼ Glossary Toggle Per-Game Stats

Regular Season		Playoffs																								
Rk	Player	Age	Pos	G	GS	QBrec	Cmp	Att	Cmp%	Yds	TD	TD%	Int	Int%	1D	Succ%	Lng	Y/A	AY/A	Y/C	Y/G	Rate	QBR	Sk	Yds	
1	<a href="#">Lamar Jackson</a>	27	QB	17	17	12-5-0	316	474	66.7	4172	41	8.6	4	0.8	198	51.3	84	8.8	10.15	13.2	245.4	119.6	77.3	23	149	
2	<a href="#">Josh Johnson</a>	38	QB	6	0		2	3	66.7	17	0	0.0	0	0.0	1	25.0	16	5.7	5.67	8.5	2.8	81.2	17.1	1	5	
<b>Team Totals</b>				<b>17</b>	<b>17</b>	<b>12-5-0</b>	<b>318</b>	<b>477</b>	<b>66.7</b>	<b>4035</b>	<b>41</b>	<b>8.6</b>	<b>4</b>	<b>0.8</b>	<b>199</b>	<b>51.1</b>	<b>84</b>	<b>8.8</b>	<b>10.12</b>	<b>13.2</b>	<b>237.4</b>	<b>119.4</b>	<b>24</b>	<b>154</b>		

## C. Determine Called Runs & Dropbacks for QB\* (Data Non-Available)

Pro-Football Reference.com only has the Advanced Stats feature for the 2018 season and beyond. So, if using a prior season, you can use an innovation that I created a few years back. A detailed PowerPoint presentation detailing every aspect of this innovation can be downloaded here.

<https://oguard62.net/wp-content/uploads/2023/06/Augmenting-QB-Rushing-Attempts.pdf>

An Excel file that simplifies this innovation can be downloaded here. <https://oguard62.net/wp-content/uploads/2023/06/Augmenting-QB-Rushing-Attempts.xlsx>

I will use Roger Staubach's 1970 card and statistics to demonstrate (see below).



Passing ✨ Upgraded ✨ Share & Export ▼ Glossary Toggle Per-Game Stats

Regular Season		Playoffs																			
Rk	Player	Age	Pos	G	GS	QBrec	Cmp	Att	Cmp%	Yds	TD	TD%	Int	Int%	Lng	Y/A	AY/A	Y/C	Y/G	Rate	Sk
1	<a href="#">Craig Morton</a>	27	QB	12	11	8-3-0	102	207	49.3	1819	15	7.2	7	3.4	89	8.8	8.71	17.8	151.6	89.8	20
2	<a href="#">Roger Staubach</a>	28	QB	8	3	2-1-0	44	82	53.7	542	2	2.4	8	9.8	43	6.6	2.71	12.3	67.8	42.9	19

# Rushing & Receiving Up

Regular Season		Playoffs				
Rk	Player	Age	Pos	G	GS	Att
1	<a href="#">Bob Hayes</a>	28	WR	13	9	4
2	<a href="#">Duane Thomas</a>	23	RB/FB	14	8	151
3	<a href="#">Walt Garrison</a>	26	FB	11	10	126
4	<a href="#">Calvin Hill</a>	23	RB	12	9	153
5	<a href="#">Lance Rentzel</a>	27	WR	11	11	1
6	<a href="#">Dan Reeves</a>	26	RB	14	1	35
7	<a href="#">Roger Staubach</a>	28	QB	8	3	27

Using the downloaded Excel spreadsheet, complete the below six steps to determine how many scramble numbers would have to be on Roger Staubach's card to reach his actual rushing attempts. Remember, prior to \*code, APBA strictly used scramble numbers to achieve rushing totals.

Step 1. Enter pass, rush attempts and sacks into applicable cells (F5, G5, and H5).

Step 2. Enter total from Cell I5 into cell K5.

Step 3. Look at QB's P-Column on card to determine amount of penalty numbers (35, 36) listed and place x next to applicable cell as a reminder of what cell to use in multiplication (I9, I10, I11, or I12).

Step 4. Look at QB's P-column on card to determine the amount of scramble numbers (26, 27) and enter amount in cell F14.

Step 5. Select cell I15 and verify cell I6 is multiplied with correct penalty number cell (x reminder).

Step 6. Look at cell I15 to determine how many scramble numbers are required to achieve rush attempts.

	A	B	C	D	E	F	G	H	I	J	K	L
2												
3												
4						<b>Pass Att</b>	<b>Rush Att</b>	<b>Sacks</b>	<b>Total Plays</b>			
5		1. Determine total plays				82	27	19	128		128	0
6		2. Determine Rush % (rushes/total plays)							0.211			
7		3. Determine Sack % (sacks/total plays)							0.148			
8		4. Determine Play Results										
9		one penalty number = 34.3							34.3			
10		two penalty numbers= 33.6							33.6			
11		three penalty numbers = 32.9							32.9 x			
12		four penalty numbers = 32.3							32.3			
13												
14		Actual scramble numbers on QB card				4						
15		Play results x Rush % = scramble numbers required						<b>Total</b>	7			
16		Play results x Sack % = sack numbers required						<b>Total</b>	5		Treat this number as	
17												

Now we know that Roger Staubach would require seven scramble numbers on his card to replicate his 27 rushing attempts. The next step is to translate those seven scramble numbers into actual rushing attempts.

Step 7. Lower rushing attempts in cell G5 until cell I15 equals cell F14.

**Once step 7 is obtained, the amount of "additional" called runs is listed in cell L5.**

Roger Staubach requires the replayer to call seven additional rushing attempts or plug that number into Running Back locators to reach his 27 rushing attempts.

	A	B	C	D	E	F	G	H	I	J	K	L
						<b>Pass Att</b>	<b>Rush Att</b>	<b>Sacks</b>	<b>Total Plays</b>			
		1. Determine total plays				82	20	19	121		128	7
		2. Determine Rush % (rushes/total plays)							0.165			
		3. Determine Sack % (sacks/total plays)							0.157			
		4. Determine Play Results										
		one penalty number = 34.3							34.3			
		two penalty numbers= 33.6							33.6			
		three penalty numbers = 32.9							32.9 x			
		four penalty numbers = 32.3							32.3			
		Actual scramble numbers on QB card				4						
		Play results x Rush % = scramble numbers required						<b>Total</b>	5			
		Play results x Sack % = sack numbers required						<b>Total</b>	5		Treat this number as	