

High School Football Statistics Workshop

Taking accurate football statistics

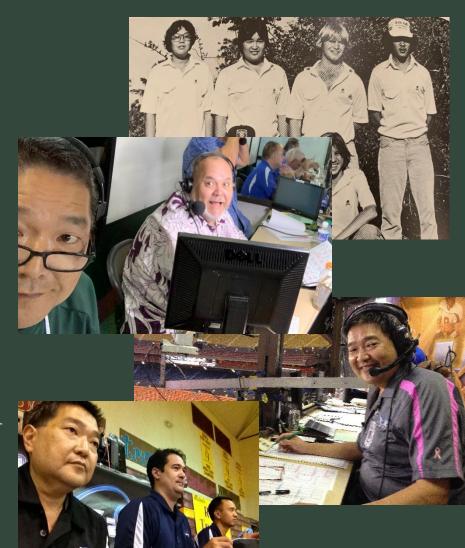
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Instructor: Thomas Yoshida

My Background

- Started as football statistician at Leilehua High School in 1979.
- UH Sports Information Office, 1982-92
- Worked as statistician for KHNL/KFVE and Spectrum Sports from 1985-present
- Worked with HHSAA stats and record books since 1998.





High School Football Statistics Workshop

Topics |

- Down and distance
- How to get a first down
- Spotting the football
- How to use the stat sheet
- (Break)
- Video exercise Taking stats at a football game
- (Break)

- Plays and situations
 - Rushing
 - Passing
 - Receiving
 - Penalties
 - Special Teams
 - Change of

Possession/misc.



Down and Distance Explained

DOWN

- An offensive play.
- A team's offense is given four downs to move 10 yards toward the opponent's end zone.

DISTANCE

• The number of yards a team needs to get a new set of downs.



- If they make the 10 yards needed within 4 downs, they are given a new set of downs. "first down"
- If they don't make it the required 10 yards, the other team's offense takes possession of the ball.



Down and Distance Explained

Terminology

1st and 10

First of four downs

Yards to go to achieve another first down



Down and Distance Explained

Terminology

1st and goal

First of four downs

Instead of 10 yards for a new first down, the goal line is the goal (goal to go)



How to get a first down

BREAKDOWN:

A first down is credited when...

- The yardsticks are ordered forward (via run or pass gaining the required 10+ yards)
- A touchdown is scored (if there was an opportunity to get a first down)
- When a penalty results in a first down



How to get a first down

BREAKDOWN:

A team gets **TWO** first down when...

Example: The yards on the play results in a first down **and** an additional penalty on the play (normally 10 or more additional yards) results in another first down.

Example:

Team A's ball on Team A's 10. Running back Alika rushes for 20 yards to Team A's 30 and Team B is penalized 15 yards from that point to Team A's 45. Credit Alika with a rush of 20 yards. Charge Team B with a penalty of 15 yards. Credit Team A with a first down by rushing and first down by penalty.



How to get a first down

BREAKDOWN:

A team does **NOT** get a first down when...

- On any kickoff, punt, interception or fumble return no matter how long the play is. (Note: If the play is over and a penalty is enforced against the new defensive team causing the yardsticks to move, credit a first down on the play)
- On an offensive play where the yards gained for a first down is negated when the team possession is lost due to a fumble or interception.
- During a 1st and goal from the 10-yard line, since there is no chance to obtain a first down, and the total yards gained is 10, no first down is awarded.



If any part of the football is touching the vertical plane (hash mark) above any yard stripe, spot the ball from that yard line.

If the football is between two hash marks, spot the ball forward towards the next line (nearest the intended goal).







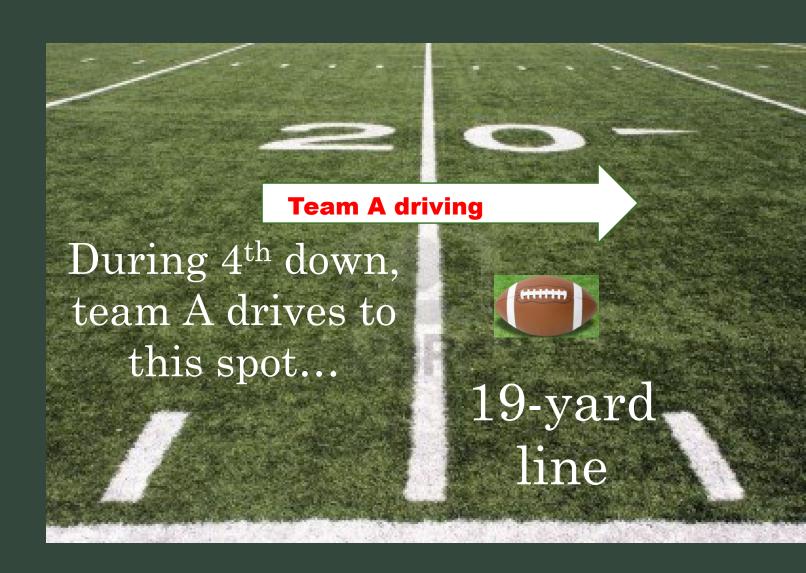




Four exceptions to spotting the football:

EXCEPTION #1: On any change of possession, it is possible that the yard line for one team may not be the same as that of the other team.











EXCEPTION #2: In certain situations where there is less than 1 yard to gain for a first down, spot the ball back 1 yard to conform with the principle that there must always be 1 yard remaining for a first down (or for a touchdown).







EXCEPTION #3: When getting a new first down, the ball rests just outside a defensive team's 10-yard line. Record the yards gained to the 10-yard line but designate the new scrimmage line as the 11-yard line, as it would be possible for the offensive team to advance for a first own without scoring a touchdown.





Team A is credited for 11 yards to Team B's 10 yard line. 1st and 10 from Team B's 11.



EXCEPTION #4: When the ball is between the 1-yard line and the goal line with the forward point of the ball closest to the goal line, the ball is considered to be at the 1-yard line.





How to use the stat sheet

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Recommend taking play-by-play

- Taking play-by-play helps in case the game speeds up
 - Take notes on the play
 - Transfer the numbers to the stat sheet
- Helpful to recap key scoring or game winning drives.



Play-by-play:

1st and 10 from team A's 20-yard line.

#32 Alika rushes to the A18

#5 Adam rushes to the A23

#11 Alan
passes to #32
Alika to the
A35

Recommend taking play-by-play

	Down/ Dist.	OII	Play	Time
1	1-10	A20 A18	R32 -2	
2	2-12 3-7 1-10	A18	R32 -2 R5 +5	
3	3-7	A23	P11-32 +12	
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#	Down/ Dist.	Ball On	Play	Time
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Stat sheet – Rushing

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All numbers represent cumulative rushing totals

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Individual Rushing



Play-by-play:

#32 Alika rushes for minus 2 yards

#5 Adam rushes for 5 yards

#11 Alan rushes for 12 yards

#5 Adam rushes for 6 yards and a TD

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Stat sheet – Passing

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Stat sheet – Passing



7

Passes completed
Passes attempted
Total yards passing

Touchdowns

Intercepted

All numbers represent cumulative passing totals

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12	2	2							
	3	3							
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22	22	No Player Yards							
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25	25	3							
26	26	4							
27	27	5							
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29	29	1							
30	30	2							
31	31	3							
32	32	4							
33	33	Т							

Passer #2

Passer #3

Opponent Intercepted Yards returned



Play-by-play: #5 Adam passes complete to #44 Abraham for 6 yards.

#5 Adam passes incomplete intended for #32 Alika.

#5 Adam passes complete to #11 Alan for 67 yards and a touchdown.

#11 Alan pass intercepted by opponent #29 at the B14 and returns to the B39.

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Stat sheet – Receiving

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4	12	3	3		4	4	4	4	4	4	4	4
5	13	4	4		5	5	5	5	5	5	5	5
6	14	5	5		6	6	6	6	6	6	6	6
7	15	6			7	7	7	7	7	7	7	7
8 False-	16 Offside-	7	1		8	8	8	8	8	8	8	8
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PerFoul-	Ill Block-	1	1		12	12	12	12	12	12	12	12
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	cumulative	6	6	6	6	6	6	

Individual Receiving Yards

receiving totals



Play-by-play: #5 Adam passes complete to #44 Abraham for 6 yards.

#5 Adam passes incomplete intended for #32 Alika.

#5 Adam passes complete to #11 Alan for 67 yards and a touchdown.

#11 Alan pass intercepted by opponent #29 at the B14 and returns to the B39.

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Stat sheet – Other

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6	14	5	5		6	6	6	6	6	6	6	6
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8	16	7	1		8	8	8	8	8	8	8	8
False-	Offside-		2		9	9	9	9	9	9	9	9
Holding-	olding- PassInt-		3		10	10	10	10	10	10	10	10
		0			11	11	11	11	11	11	11	11
PerFoul-	erFoul- III Block-		1		12	12	12	12	12	12	12	12
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All numbers represent cumulative yardage totals

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High School Football Statistics Workshop

Break

Coming up:

Watching video and taking stats during a game



Taking stats

Total of six videos

- Practice taking play-by-play
- 1. Identify player's number
- 2. Try and spot the ball
- 3. Determine down and distance
- 4. How many yards do you give each player on each play?





Iolani wearing black. Lahainaluna wearing white.



Kickoff

Iolani (black) kicks to Lahainaluna (white)





Result from Kickoff

Iolani #23 kicks to Lahainaluna #7 Returns from L2 to L30 (28 yards) (Tackle #1 – Clock: 1:46)



Lahainaluna Play #1

1st and 10 Ball on Lahainaluna 30







Result from Play #1

Penalty – Delay of Game Spot: Lahainaluna 25 5 yard penalty (L30 to L25)



Lahainaluna Play #1 (repeat)

1st and 15 Ball on Lahainaluna 25





Result from Play #1 (repeat)

Rush Lahainaluna #7
Spot: Iolani 48
27 yards (L25 to I48)
(Tackle: 92/22 – First down rush)



Lahainaluna Play #2

1st and 10 Ball on Iolani 48





Result from Play #2

Rush Lahainaluna #32 Spot: Iolani 32 16 yards (I48 to I32) (Tackle: 92 – First down rush)



Lahainaluna Play #3

1st and 10 Ball on Iolani 32





Result from Play #3

Rush Lahainaluna #4
Fumble (own recovery)
Spot: Iolani 34
Minus 2 yards (I32 to I34)
(Tackle: 21 & 7)



Lahainaluna Play #4

2nd and 12 Ball on Iolani 34





Result from Play #4

Pass Lahainaluna #4
Interception
Spot: Iolani 19 by Iolani #19
Return yards: 0 yards
(No tackle on play – Clock: 0:21)



Kickoff at 1:53.

(your completed play-by-play sheet)

KO by 23 to L2 returned by 7 to L30

Delay of game

Rush 7 to the I48 (+27)

Rush 32 to the I32 (+16)

Rush 4 fumbles to I34

Pass 4 inter. By 19 at I19 (return 0 yds)

#	Down/ Dist.	Ball On	Play	Time
			Lahainaluna	1:53
	KO	23	Ret.7 L2-L30 +28	1:46
1	1-10	L30	Pen. Delay (5 yds)	
1	1-15	L25	R7 +27	
2 3 4	1-10		R32 +16	
3	1-10	I32	R4 Fum -2	
4	2-12	I34	P4 Int. 19 I19-19 +0	0:21
			lolani	0:21
1	1-10	I19		
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#	Down/ Dist.	Ball On	Play	Time
	DIST.	On	-	



High School Football Statistics Workshop

Break

Coming up:

Plays and situations



Any player who carries the ball is credited with plus or minus yardage from the line of scrimmage to the spot where the ball is declared dead.

Rush by Adam

A32 to A49 = +17 yard rush

B49 to A41 = Minus 10 yard rush



If a quarterback drops back to pass and is sacked, is it a rushing or passing play?

ANSWER: RUSHING PLAY

Pass attempt by Adam
Sacked from A32 to A27 -> Minus 5 yard rush
Takes off and runs from A27 to A49 -> 22 yard



In a run-option play involving a pitch to the trailing back:

- Credit the trailing back with the rush attempt and total yardage gained or lost.
- The player who pitches is not credited with a rush attempt or yardage.





On plays that do not involve a run-option play but contain laterals beyond the line of scrimmage, credit all players with yards gained/loss but only one rushing attempt can be credited.

Quick Quiz: From the 50-yard line, Adam advances to Team B's 30-yard line where Adam passes backward to Alika who catches the ball at Team B's 32-yard line. Alika then advances to Team B's 25-yard line and is downed.

Adam - how many yards?

Alika - how many yards? Who gets the rushing attempt?

Ruling:

Adam is credited with a "rushing attempt" and 18 yards rushing.

Alika is credited with 7 yards rushing but no "rushing attempt."



Run-option OR Lateral? #1



Run-option OR Lateral? #2



Run-option OR Lateral? #3



FUMBLES OR ERRANT PITCH

If, in the statistician's opinion, an errant pitch or fumble precludes the intended receiver an opportunity to advance, or results in no gain or a loss on the play, charge the original ball handler with a rush attempt and yardage lost.

Situation 1: Team A's ball on Team B's 30. Adam's pitch to Alika, in the statistician's opinion, is errant and Alika is downed on Team B's 32. Charge Adam with a rush of minus 2 yards.



Errant Pitch + Fumble



Rushing and Passing Plays

Similar to rushing, all passing yards gained or lost on each completed play are credited to both passer and receiver.

(All yards thrown by passers must match with yards gained by all receivers)

Note: A shovel pass is considered a forward pass



Shovel pass



Passing Plays and Situations

Similar to running plays, if there are any laterals beyond the line of scrimmage, credit all players with yards gained/loss but only one reception can be credited.

Quick Quiz: From the 50-yard line, Adams pass is completed to Alika at Team B's 30-yard line where Alika advances to the B26 and laterals to Alan who catches the ball at the B28 and scores a touchdown.

What is QB Adams credited for?

Alika and Alan gets how many yards? Who gets for the reception?

Ruling:

Adams – pass completion/attempt for 50 yards and a TD.

Alika -1 reception for 22 yards.

Alan – no reception for 28 yards and a TD.



Hook and Ladder play

(video)



Penalty Plays and Situations

PENALTY YARDAGE:

Penalty yards can range from

- 0 yards (illegal touching)
- 5 yards (false start, encroachment, offside)
- 10 yards (holding)
- 15 yards (pass interference, personal foul)
- Spot foul penalties (holding, clipping)
- Half the distance to the goal



3 TYPES OF PENALITIES

- Previous Spot
- Spot foul
- Dead ball foul



PREVIOUS SPOT:

The officials will march off the penalty from the previous spot and repeat the down.

(Result: No stats are recorded. Record only penalty yards and possible new first down)



SPOT FOUL:

The officials will march off the penalty from the spot of the foul either towards the offense or defense.

(Result: If the spot of the foul is enforced from beyond the line of scrimmage, credit partial yards on the play AND record penalty yards)

Note: The down is repeated so despite the yards, there is no play.



SPOT FOUL SITUATION 1:

(1st and 10) Team A's ball on Team B's 40-yard line. Alika rushes for 17 yards to the B23. A clipping penalty is called against Team A on Team B's 31-yard line. The enforcement spot is the 31-yard line and Team A is penalized 15 yards to Team B's 46-yard line.

Credit Alika with a rush of 9 yards and charge Team A with a penalty of 15 yards.

 $(1^{st} \text{ and } 16) - \overline{\text{Repeat the down (no first down)}}$



SPOT FOUL SITUATION 2:

Team A's ball on Team A's 40-yard line. Adams rushes for 5 yards to the A45. A chop block penalty is called against Team A on Team A's 34-yard line. The enforcement spot is the 34-yard line and Team A is penalized 15 yards to Team A's 19-yard line.

Do not credit Adams with a rush (no play) Charge Team A with a penalty of 21 yards.



You make the call

(1st and 10 on the B45)

(video)



FROM THE END OF THE RUN OR DEAD BALL FOUL:

The officials will march off the penalty from where the play ended either towards the offense or defense.

(Result: Add players stats to both end of the run and dead ball fouls.)



DEAD BALL FOUL SITUATION 1:

(1st and 10 at the B40) Adams rushes for 17 yards to the B23. A dead ball personal foul penalty is called against Team B. The enforcement spot is the 23-yard line and the ball is moved between the 11 and 12-yard line.

Credit Adam with a rush of 17 yards and a first down. Charge Team B with a penalty of 12 yards and another first down.

(1st and 10 on Team B's 11-yard line)



DEAD BALL FOUL SITUATION 2:

(2nd and 2 at A10) Adams rushes for 35 yards to the A45. A dead ball personal foul penalty is called against Team A. The enforcement spot is the 45-yard line and the ball is moved to Team A's 30-yard line.

Credit Adams with a rush of 35 yards and a first down (by rushing). Charge Team A with a penalty of 15 yards.

(1st and 10 on Team A's 30-yard line)



PUNTS:

Punts are measured from the line of scrimmage to the point where the receiving team first gains or loses possession of the ball; or, if untouched by the receiving team, to the point where the ball is downed by the kicking team, is declared dead or goes out of bounds

SITUATION: On 4th down, team A's ball on the 50. Adam punts to Brown from Team B, who receives the ball on Team B's 15 and retreats to B5 where he is tackled.

Credit Adam with a 35-yard punt. Charge Brown with a return of minus 10 yards.



PUNTS:

If a punt is either blocked or a bad snap, do not charge the punter but charge the "team" with the punt.

If the punt is blocked, the team is charged with a 0 yard punt.

SITUATION: On 4th down, team A's ball on its 30. In a punting situation, the center pass goes over Adam's head. Adam recovers the ball and, under duress, punts. The ball goes out of bounds at the A20.

Do not charge Adam with a punt. Charge team A with a "team" punt of minus 10 yards.



PUNTS:

If there is a defensive return on a blocked punt, it is treated as a punt return.

SITUATION: On 4th down, team A's ball on its 30. Adam's punt is partially blocked and recovered by Brown on the 50 and returns it for a touchdown.

Do not charge Adams with a punt. Charge team A with a "team" punt of 20 yards. Charge Brown with a punt return for 50 yards and a touchdown.



PUNTS ABORTED:

If a punting play is aborted due to a bad snap or fumble, charge the "team" with a rush. If the play results in positive yards, charge the individual player with the yards.

SITUATION 1: On 4th down, team A's ball on its 30. In a punting situation, the center pass goes over Adam's head. Adams recovers the ball and, under duress, is downed on team A's 10. Charge team A with a "team" rush of minus 20 yards

SITUATION 2: In the same situation as above, Adams rushes to team A's 32. Charge Adams with a rush of 2 yards.



PUNT BECOMES A RUSH:

When a player fumbles a properly centered ball and there is a loss on the play, charge the <u>punter</u> with a rush and minus yardage rushing. If there is a gain on the play (measured from the line of scrimmage), credit the appropriate player with a rush. In each case, charge Team A with a fumble.

SITUATION 1: Team A's ball on its five. Adams, back to punt, fumbles (a properly centered ball) and falls on the ball in the end zone for a safety. Charge Adams with a rush of minus five yards. Charge team A with a fumble.



KICKOFF RETURNS

Returns are measured from the point where the returning player first gained or lost possession of the ball (using the back foot as a starting point) to the point where the ball is declared dead or is lost by a fumble.

A player making a fair catch is not charged with a return unless he "muffs" the kick or punt, in which case he is credited with a return and the team is charged with a fumble.

Note: A muff is an unsuccessful attempt to catch or recover a ball that is touched in the attempt.



KICKOFF RETURNS

On a multiplayer kick return exchange when there is no attempt by the first player (or the second if more than two are involved) to advance the kick, credit the last player handling the ball with the return and yardage. Compute his yardage from the point where the receiving team first gained possession.

SITUATION: Alan receives the kick on the goal line, and advances to the A5 only in an effort to hand off to Adam. Adam laterals to Alika on the A3, who returns it to the A25.

Do not credit either Alan or Adam with a return or return yardage. Credit Alika with the entire return for 25 yards.



FIELD GOALS

Field goal attempts are measured from the spot where the ball is kicked to the goal posts (to the goal line plus 10 yards, since the posts are 10 yards behind the goal line). The spot of the attempt is dictated by the same principle as used in determining the line of scrimmage.

Note: If any part of the ball when kicked rests on or above any yard stripe, credit distance from that yard line. If all of the ball rests between yard stripes, credit distance from the yard line nearest the in intended goal.

SITUATION: Albert is ready to kick a field goal. The holder (Alan) lines up the ball between team B's 15 and 14-yard line. Albert's kick is good.

Credit Albert with a 24-yard field goal made.



POSSESSION CHANGES

If you plan to take play-by-play, please note the following:

- Time on the clock at the start of the possession.
- The new line of scrimmage (Between the hash marks for team B now to team A.



What's Your Future

Your journey as a statistician doesn't end here!

CAREERS:

Journalism, Sports media relations, network and cable TV

PART TIME:

HHSAA computer stats, Spectrum Sports, OC16 high school sports, UH and college programs.



Resources

The Official National Collegiate Athletic Association

2021 FOOTBALL STATISTICIANS' MANUAL

Including Special Interpretations and Approved Rulings Covering Unusual Situations



The NCAA
publishes free
online statisticians
manual for most
sports.

Most common situations and interpretations are explained here



Resources

NCAA FOOTBALL STATISTICIANS MANUAL

http://www.ncaa.org/championships/statistics/nca a-football-statisticians-manual

HHSAA STATISTICIANS RESOURCE PAGE:

Website:

https://sportshigh.com/resources/statisticians

Shortened: https://bit.ly/HHSAAstats

QR code:





High School Football Statistics Workshop

Questions?

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