

Introduction

- This module introduces statistics. It will describe how to record the different types of statistics in the scorebook.
- These statistics can then be used in various formulas to generate percentages and averages.
- All statistics are recorded as a number. While they can be completed after the game has ended, some are easier to record during the game. Find what works for you with regards to which statistics to do during the game and the order that you record them in.
- For the player, pitcher and catcher statistics that can be recorded after each play, use a small mark in the required column. These can then be tallied at the conclusion of the game. Double-check against the plays to ensure they are correct – marks can be easily missed or put in the wrong place.
- Care needs to be taken when a player changes fielding positions or is substituted to ensure the statistics are recorded against the correct player.

Scorebook

The scorebook has a number of different areas for the statistics to be recorded. Each player has separate statistics as a batter, fielder, pitcher or catcher. Some pitching statistics are also recorded per inning and others are used to balance the scorebook.

HOME		AWAY		VENUE:	DATE:	TIME START:	FINISH:	TOTAL:
FIELDING		BATTING ORDER		A		BATTING		
TEAM		TEAM		PO		PA		
PO		PO		E		R		
E		E		1		H		
1		1		2		1		
2		2		3		2		
3		3		4		3		
4		4		5		4		
5		5		6		5		
6		6		7		6		
7		7		8		7		
8		8		9		8		
9		9		10		9		
10		10		11		10		
11		11				11		
RHS		RHS		RHS		RHS		
Balls		Balls		Balls		Balls		
Strikes		Strikes		Strikes		Strikes		
Pitches		Pitches		Pitches		Pitches		
BFP		BFP		BFP		BFP		
HTS		HTS		HTS		HTS		
LOB		LOB		LOB		LOB		
PITCHERS		PITCHERS		PITCHERS		PITCHERS		
PI		PI		PI		PI		
INN		INN		INN		INN		
H		H		H		H		
K		K		K		K		
BB		BB		BB		BB		
HPR		HPR		HPR		HPR		
RS		RS		RS		RS		
ER		ER		ER		ER		
WP		WP		WP		WP		
BLK		BLK		BLK		BLK		
PCS		PCS		PCS		PCS		
BFP		BFP		BFP		BFP		
B		B		B		B		
S		S		S		S		
PIT		PIT		PIT		PIT		
W/L		W/L		W/L		W/L		
CATCHERS		CATCHERS		CATCHERS		CATCHERS		
INN		INN		INN		INN		
PB		PB		PB		PB		
SB		SB		SB		SB		
CCS		CCS		CCS		CCS		
COACH:		COACH:		COACH:		COACH:		
OFFICIAL RECORDER:		OFFICIAL RECORDER:		OFFICIAL RECORDER:		OFFICIAL RECORDER:		
SCORER: HOME:		SCORER: HOME:		SCORER: HOME:		SCORER: HOME:		
SCORER: VISITING:		SCORER: VISITING:		SCORER: VISITING:		SCORER: VISITING:		
UMPIRE SIGN:		UMPIRE SIGN:		UMPIRE SIGN:		UMPIRE SIGN:		
ON BENCH:		ON BENCH:		ON BENCH:		ON BENCH:		
WON BY:		WON BY:		WON BY:		WON BY:		
SCORE:		SCORE:		SCORE:		SCORE:		
UMPIRES: PLATE:		UMPIRES: PLATE:		UMPIRES: PLATE:		UMPIRES: PLATE:		
1ST:		1ST:		1ST:		1ST:		
2ND:		2ND:		2ND:		2ND:		
3RD:		3RD:		3RD:		3RD:		
PITCHER: WIN:		PITCHER: WIN:		PITCHER: WIN:		PITCHER: WIN:		
LOSS:		LOSS:		LOSS:		LOSS:		
SAVE:		SAVE:		SAVE:		SAVE:		
AB + BB + HP + SAC + CI = SUM		AB + BB + HP + SAC + CI = SUM		AB + BB + HP + SAC + CI = SUM		AB + BB + HP + SAC + CI = SUM		
SCORER: HOME		SCORER: HOME		SCORER: HOME		SCORER: HOME		
R + LOB + PO = SUM		R + LOB + PO = SUM		R + LOB + PO = SUM		R + LOB + PO = SUM		
SCORER: VISITING		SCORER: VISITING		SCORER: VISITING		SCORER: VISITING		

- Player statistics:
 - batting (BLUE)
 - fielding (RED)
 - pitcher and catcher (GREEN)
- Inning (YELLOW)
- Balancing (PURPLE)

Batting

PA	Plate Appearance	A completed turn at the plate. If the third out is made in the field, there is no PA.						
AB	At Bat	When the batter has been given the opportunity to make a play. If the batter reaches 1 st base by a walk, hit by pitch, sacrifice (bunt or fly), catchers interference or obstruction*, there is no AB. (play in the shaded area = no AB)						
R	Run	When the runner scores						
H	Hit	When the batter reaches at least 1 st base on a safe hit						
1	Single	2	Double	3	Triple	HR	Home Run	
RBI	Runs Batted In	When the batter advances a runner home (except on a double-play). If the batter hits a home run, count an RBI for all runners and the batter.						

SAB	Sacrifice Bunt	SAF	Sacrifice Fly
BB	Walk	HPB	Hit By Pitch
CI	Catchers Interference, Obstruction*		

BATTING																			
PA	AB	R	H	1	2	3	HR	RBI	SAB	SAF	BB	HPB	CI	K	GDP	SB	CS	LOB	

Smaller row at the bottom for column totals – used for balancing.

K	Strikeout	All types whether the batter is out or safe
GDP	Grounds out into a Double-Play	
SB	Stolen Base	
CS	Caught Stealing	
LOB	Left on Base	When the player is left safely on a base at the end of the inning

* batter reaching 1st base only

Fielding

For fielding statistics, the plays where a batter or runner is called out or an error has been scored are recorded.

A	Assist	Player(s) that threw or deflected the ball.
PO	Put-out	Player that made the out by catching the ball on the full, tagging the base, runner or batter.
E	Error	Player that made the error.

FIELDING		BATTING ORDER																				
TEAM		1	2	3	4	5	6	7	8	9	10	11										
DO	PO	A	E	Pos	Ch	U							E									
						1	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

There are two different sections for recording fielding statistics:

- **A PO E rows** at the top of the scoring area is a summary of the assists, put-outs and errors made in that inning. They are a direct copy of all the fielder position numbers involved in the plays.
- **PO A E columns** to the left of the players name is where each players tally of put-outs, assists and errors for the game is recorded.

KC and K strikeouts are recorded as a put-out to the catcher – fielder position number 2.

Receiver errors - record the assist(s) and the error (there will be no put-out).

Fielding – cont.

Write the assists, put-outs and errors in the A PO E rows at the top of the inning column in the same order as they occur.

Indicate when a pitching change (blue line) or fielding change (orange line) has been made.

FIELDING					BATTING ORDER		TEAM		A	PO	E
DO	PO	A	E	Pos	Ch	Uni					
							1	6	3	2	8
							2	9	1	3	6
							3	4			
							4	6-3			
							5				
							6	E4			
							7				
							8	K2			
							9	F8			
							10				
							11				
							12				
							13				
							14				
							15				
							16				
							17				
							18				
							19				
							20				
							21				
							22				
							23				
							24				
							25				
							26				
							27				
							28				
							29				
							30				
							31				
							32				
							33				
							34				
							35				
							36				
							37				
							38				
							39				
							40				
							41				
							42				
							43				
							44				
							45				
							46				
							47				
							48				
							49				
							50				
							51				
							52				
							53				
							54				
							55				
							56				
							57				
							58				
							59				
							60				
							61				
							62				
							63				
							64				
							65				
							66				
							67				
							68				
							69				
							70				
							71				
							72				
							73				
							74				
							75				
							76				
							77				
							78				
							79				
							80				
							81				
							82				
							83				
							84				
							85				
							86				
							87				
							88				
							89				
							90				
							91				
							92				
							93				
							94				
							95				
							96				
							97				
							98				
							99				
							100				
							101				
							102				
							103				
							104				
							105				
							106				
							107				
							108				
							109				
							110				
							111				
							112				
							113				
							114				
							115				
							116				
							117				
							118				
							119				
							120				
							121				
							122				
							123				
							124				
							125				
							126				
							127				
							128				
							129				
							130				
							131				
							132				
							133				
							134				
							135				
							136				
							137				
							138				
							139				
							140				
							141				
							142				
							143				
							144				
							145				
							146				
							147				
							148				
							149				
							150				
							151				
							152				
							153				
							154				
							155				
							156				
							157				
							158				
							159				
							160				
							161				
							162				
							163				
							164				
							165				
							166				
							167				
							168				
							169				
							170				
							171	</			

Inning

Balls	Number of balls pitched
Stks	Number of strikes pitched
Pit	Total number of pitches thrown
BFP	Batters faced (completed turn)
HITS	Number of safe hits
LOB	Number of runners left on base

RUNS							
Balls	10	16	26	4	30	3	
Stks	15	13	28	1	29	12	
Pit	25	29	54	5	59	15	
BFP	8	6	14	2	16	3	
HITS	3	2	5	0	5	1	
LOB	1	0	1	1	2		

Each inning column is split into two:

- Left side – total for that inning
- Right side - cumulative total for the pitcher

Inning statistics are recorded separately for each pitcher that pitches in that inning.

Indicate a pitching change with a blue line and pitchers name (optional).

When there is a pitching change during the inning, split the column so the inning and cumulative totals for the replaced pitcher can be recorded in one column.

LOB is a running total for the whole game and is not reset at the change of pitcher.

Pitcher

PITCHERS	PI	INN	H	K	BB	HPB	RS	ER	WP	BLK	PO	PCS	BFP	B	S	PIT	W/L/S
BROWN Jamie	3	2.1	5	0	3	1	5	5	1	0	0	0	16	30	29	59	
JONES Elisa	1	0.2	1	2	0	0	0	0	0	0	0	0	3	3	12	15	

PI	Innings participated in. This is a whole number. Include any inning the pitcher pitches in. The total for all pitchers may exceed the number of innings in the game.
INN	Innings pitched. Based on the number of outs that occurred while the player was pitching. 3 outs = a whole inning 2 outs = 0.2 of an inning 1 out = 0.1 of an inning eg. if a pitcher has 2 outs in the 4 th and 2 outs in the 5 th INN = 1.1
H	Hits
K	Strikeouts – all types whether the batter is out or safe

BB	Walks
HPB	Hit by Pitch
RS	Total Runs Scored
ER	Earned Runs – green runs only
WP	Wild pitches
BLK	Balks
PO	Pick offs: PO 1-#
PCS	Pitcher caught stealing: CS 1-#
BFP	Batters faced (completed turn)
B	Total number of balls pitched
S	Total number of strikes pitched
PIT	Total pitches thrown
W/L/S	Win, loss, save

Catcher

INN	Innings as catcher. Based on the number of outs that occurred while the player was catching. 3 outs = a whole inning 2 outs = 0.2 of an inning 1 out = 0.1 of an inning
PB	Passed Balls
SB	Stolen bases (a double steal counts as 2 stolen bases)
CCS	Catchers caught stealing: CS 2-#

CATCHERS	INN	PB	SB	CCS
GRUCIX Brax	1.2			
TREWIN Daniel	1.1			

Balancing

Column totals from batting statistics:

AB	At Bats
BB	Walks
HP	Hit by Pitch
SAC	Sacrifice bunts + sacrifice flys
CI	Catchers interference
SUM	Total of above

$$\begin{array}{r}
 \text{AB} + \text{BB} + \text{HP} + \text{SAC} + \text{CI} = \text{SUM} \\
 \square + \square + \square + \square + \square = \square \\
 \\
 \text{R} + \text{LOB} + \text{PO} = \text{SUM} \\
 \text{(Opposing Team)} \\
 \square + \square + \square = \square
 \end{array}$$

SUM figures should be the same as each other and should equal the total PAs for the team.

R	Runs scored
LOB	Left on Base (from inning statistics)
PO	Total number of put-outs made by the other team
SUM	Total of above

Cross-check a teams total batting statistics with the total for all opposition pitchers:

Batting	Pitching
PA	BFP
R	RS
H	H
BB	BB
HPB	HPB
K	K

Calculating Averages

Batting Average:

Divide the total number of safe hits by the total number of times at bat.

$$\frac{H}{AB} \quad \text{eg. Lucy Marshall had 1 Hit and 2 ABs: } \frac{1}{2} \quad \text{Batting ave} = 0.500$$

Fielding Average:

Divide the total number of put outs and assists by the total number of put outs, assists and errors.

$$\frac{PO+A}{PO+A+E} \quad \text{eg. Stephen Gibbs has 2 POs, 5 As and 1 E: } \frac{2+5}{2+5+1} \quad \text{Fielding ave} = 0.875$$

Earned Run Average (ERA):

Multiply the number of earned runs by 9 (7 for juniors) then divide by the number of innings pitched.
If INN is x.1 use x.333 and if INN is x.2 use x.666.

$$\frac{ER \times 9}{INN \text{ (converted)}} \quad \text{eg. Jamie Brown had 5 ERs and 2.1 INNs: } \frac{5 \times 9}{2.333} \quad \text{ERA} = 19.288$$