

EXPLANATION OF STATS IN SCORE BOOK

FIELDING STATISTICS COLUMNS

- DO - Defensive Outs** The number of put outs the team participated in while each player was in the line-up. Defensive outs are used in National Championships as a qualification rule.
- PO - Put out (10.09)** A putout shall be credited to each fielder who
- (1) Catches a fly ball or a line drive, whether fair or foul.
 - (2) Catches a thrown ball, which puts out a batter or a runner.
 - (3) Tags a runner when the runner is off the base to which he is legally entitled.
- A – Assist (10.10)** Any fielder who throws or deflects a batted or thrown ball in such a way that a putout results or would have except for a subsequent error, will be credited with an Assist.
- E – Error (10.12)** An error is scored against any fielder who by any misplay (fumble, muff or wild throw) prolongs the life of the batter or runner or enables a runner to advance.

BATTING STATISTICS COLUMNS

- PA - Plate Appearance** Every time the batter completes his time at bat he is credited with a PA.
Note: if the third out is made in the field he does not get a PA but is first to bat in the next innings.
- AB - At Bat (10.02(a)(1))** When a batter has reached 1st base without the aid of an 'unofficial time at bat'. i.e. do not include Base on Balls, Hit by a Pitched Ball, Sacrifice flies/Bunts and Catches Interference.
- R – Runs (2.66)** every time the runner crosses home plate scoring a run.
- H – Hits (10.05)** Safe Hits only (When a batter reaches 1^s base safely) not fielder's choice, errors, BB, HPB, Sac, CIF.
- 1B Base Hit (10.06)** Batter reaches 1st base on a safe hit **2B**
Batter reaches 2nd base on a safe hit **3B**
Batter reaches 3rd base on a safe hit **HR - Home run**
Batters reaches home plate on a safe hit.
- RBI - Run batted in (10.04)** If a run scores because of a batter's plate appearance then that batter is awarded a RBI. If on loaded bases the batter gets a BB then he will be awarded a RBI for the runner who walks home: if he has a sacrifice fly then he also gets a RBI for the runner who comes home. If he hits a home run, all preceding runners and himself is scored as RBI's.
- SAB - Sacrifice Bunt (10.08(a))**
When before two are out, a batter sacrifices his time 'at bat' in a deliberate manner, usually getting himself out, to advance a preceding runner/s. (Unofficial time at bat)
- SAF - Sacrifice Fly (10.08(d))**
When, before two are out, a batter hits a fly ball into the outfield and a runner scores after the catch is taken, or should have been taken but for a fielding error. (Unofficial time at bat)
- BB - Base on Balls (10.14)** Awarded by Umpire when a pitcher throws four balls outside the strike zone. (Unofficial time at bat)
- HPB - Hit by a pitched ball (2.04) (6.08(b))**
Batter is awarded 1st base when hit by a pitched ball when standing in the batters box. (Unofficial time at bat)
- CI - Catcher's Interference (7.04(d))**
When a batter is awarded first base by the umpire because of catcher Interference.

- K - Strike out** (10.15) Pitcher has thrown three pitches that the batter has either swung at, fouled off or the Umpire has called strikes. Kpb, Kwp, K2-3 are also Stats for a strike out to the batter and the pitcher.
- GDP - Ground Out Double Play** Credit the batter if he hits into a ground out double play. (Does not include a fly out double play or if the field catches a ball).
- SB - Stolen Base** (10.07) Credited whenever a runner advances one base unaided by a hit, a put out, an error (excluding a Catchers Wild Throw), a force-out, a fielders choice, a passed ball, a wild pitch or a balk. Undefended Steals do not get credited as a steal they are scored as a fielders Choice e.g. FC2
- CS - Caught stealing** (10.07(h)) Credited when a runner is put out, or would have been put out by errorless play when the runner tries to steal, is picked off a base and tries to advance or over slides while stealing.
- LOB - Left on base** After three outs are made, any runner still on a base are deemed to be 'left on base'

Extra stats not in the scorebook but appear on the stat sheet

- Innings Played** The amount of innings a player appears in. Top and Bottom of an inning is one inning. (Part of an inning is considered one inning)
- Games Played** Each week is only one – don't do a running tally each week. The total is written at the bottom line at the end of the season.
- Total Bases** The amount of bases that each safe hit got the runner. i.e.: if the batter hit a Single and a triple his total bases would be 4.
- Put out on base** When a runner is put out on any base other than first base.
- Reached first on Error** If the batter only got to first base because of a fielding error.

PITCHING STATISTICS COLUMNS

PITCHERS Enter the Pitchers name on the same page his team is recorded on.

PI - Participated Inning Any part of an inning is a complete inning when determining how many innings participated. Participated Inning is used in National Championships as a qualification rule.

INN - Inning The number of innings each pitcher has thrown if a pitcher is replaced during an inning and there are no outs, regardless of the number of batters he has faced the pitcher has not pitched any part of an inning. If there is one out, he has pitched 1/3 of an inning, 2 outs = 2/3 of an inning and 3 outs = 1 innings

- H - Safe hits** Number of safe hits the pitcher gave up by each pitcher.
- K or SO - Strike Outs** Number of batters struck out by each pitcher.
- SAB – Sacrifice Bunt** Number of Bunts against each pitcher
- SAF – Sacrifice Fly** Number of Sacrifice Fly's against each pitcher
- BB - Base on balls** Number of batters walked by each pitcher.
- HPB - Hit by pitched ball** Number of batters hit by the pitched ball for each pitcher.
- RS- Runs scored** Total number of runs scored against each pitcher.
- ER - Earned runs** (10.16) An earned run is a run for which the pitcher is held accountable.
- WP - Wild pitch** (10.13) Credited when a legally delivered ball is so high, or so wide, or so low that the catcher does not stop and control the ball by ordinary effort thereby allowing runner/s to advance.
- BLK – Balk** (2.03) An illegal act by the pitcher with a runner/s on base, entitling all runners to advance one base.
- PO – Pick Off** Action initiated by the pitcher and the runner gets out returning to his base.

BFP - Batters Faced	Number of batters each pitcher threw to, keeping in mind that a pitching change made in the middle of a batter Rule use rule 10.18h. (Hint: Total for all batters for all pitchers should equal the total amount of plate appearance)
B - Total Balls	Number of balls thrown by each pitcher
S - Total strikes	Number of strikes thrown by each pitcher
PIT - Total Pitches	Total number of pitches thrown (balls + strikes) by each pitcher.
W / L / S (10.17, 10.19)	Record if the pitcher is a W inning pitcher, a L osing pitcher or a S aving pitcher for the game.

Extra stats not in the scorebook but appear on the stat sheet

BFO - Batters faced officially	Is Batters faced minus Sacrifice Bunt/Fly, BB, HPB CI
CI - Catchers Interference	Number of Catchers Interference Occurring for each Pitcher

BATTING AND FIELDING PERCENTAGE FORMULARS

BATTING AVERAGE $H \div AB$ eg: $1 \div 3 \times = .333\%$

To determine batting average, divide the total number of Safe Hits (not total bases of safe hits) by the total times At Bat. Do not include base on balls, hit by pitched ball, sacrifice fly, sacrifice bunt, or catcher's interference. Do not include getting to first base on error's, fielder's choice or catcher's interference.

SLUGGING AVERAGE $TOTAL\ BASES \div AB$ eg: $9 \div 23 = .391\%$

To determine slugging average, divide the total bases of all safe hits by the total times at bat.

FIELDING AVERAGE $(PO + A) \div (PO + A + E) \times 1000$ eg: $(4 + 2) \div (4 + 2 + 1) = .857\%$

To determine fielding average, divide the total put outs and assists by the total put outs, assist and errors.

ON BASE PERCENTAGE

$(H + BB + HPB) \div (AB + BB + HPB + SF)$ eg: $(1 + 1 + 0) \div (2 + 1 + 0 + 0) = .667\%$

To determine on base percentage, add the total of Safe hits, all bases on balls, and hit by pitched balls and divide by the total of At Bats, all base on balls, hit by pitch and sacrifice flies.

PITCHING AND ERA AVERAGE FORMULARS

EARNED RUN AVERAGE $ER \times 9 \div INN$

Pitcher's earned run average, multiply the total of earned runs charged against the pitcher by 9 divided by the number of innings he pitched. Earned run average to be calculated on the basis of total innings pitched including fractional innings. Eg: 2 1/3 innings pitched and 2 earned runs is an earned run average of 7.72
Eg: 2 ER X 9 innings divided by 2 1/3 equal 7.72

On calculator 1/3 innings = .33 2/3 innings = .67

PITCHING AVERAGE $S \div P \times 100$ eg: $26 \div 65 \times 100 = 40.00$ For pitching average, divide Strikes by total number of Pitches.

Thanks WABSSA (WA Baseball Scores & Statisticians Association) for this resource available at:

<http://www.scorerswa.baseball.com.au/>