

**Central Virginia Dart Association
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PPA Calculations

March 2005

**CVDA
Individual PPA Calculations**

Many of the CVDA members have requested an explanation as to how the CVDA calculate the individual and team PPA's. This document will try to explain. (We suggest you have a CVDA score sheet in front of your to help understand)

Individual PPA

Basics:

The individual players league play is kept for many seasons, however **only the last 3 seasons** are used to keep a running total of the players PPA.

Example:

John Jones

Season	1	2	3	Total	
	Winter 02	Summer 02	Fall02	Marks	Legs
	40 32	45 38	51 38	136	108

Total 136 marks /108 legs = 1.259 PPA

I should mention one more point: When a player throws his first week of a new season (Season 4) the WHOLE of his Season 1 marks & legs are REMOVED.

This is why the week 3 and week 7 PPA's found on the web site sometimes look inaccurate. The old database we used did not allow for calculation on a week to week basis. The new one will allow for a more accurate analysis in Winter 06.

Scoring:

A player will play for his/her team in a number of games throughout the evening. Each game consists of “the best of three legs” format.

During his/her games the player may score his/her darts that result in a “mark”. Each mark has a point’s value. These are currently deemed to be as follows:

01 legs		Cricket legs	Value
		(Triple = t, Double =d single =s)	
5 Marks	95 – 113	(T+S+S or D+D+S or T+D)	1 point
6 Marks	114 – 132	(T+T or T+D+S or D+D+D)	3 points
7 Marks	133 – 151	(T+T+S or T+D+D)	5 points
8 Marks	152 – 164	(T+T+D)	7 points
9 Marks	165 – 180	(T+T+T)	10 points

Bulls are also included in the marks follows:

- 4 bulls = 5 marks
- 5 bulls = 7 marks
- 6 bulls = 9 marks

The Out shot dart is also given 1 mark.

For **01** legs any player hitting a “mark’ will have 2 slashes put into the appropriate marks column of the scoresheet. In cricket legs 1 slash will be used.

At the end of the evenings play the scorekeeper will add up the total number of legs played by each player and put that figure into the “**# of legs played**” column (far right column on the scoresheet)

Now they total up any marks hit by the individual players and enter the appropriate number.

Example: (John & Jim)

Team Name	4 Bulls 5 Marks 95-113	6 Mark 114-132	5 Bulls 7 Mark 133-151	8 Mark 152-164	6 Bulls 9 Mark 165-180	Outs (1 slash)	# Legs Played
John Jones	1	2	1			4	8
Jim James	1	1				2	10
Point value	1	3	5	7	9	1	

John has played in 8 legs. His calculated marks are:

1 x1, 2 x 3, 1 x 5 + 4 outs = 1+6+5+4 = 16 points.

Now divide the total points against legs played. $16/8 = 2.00$ PPA

Jim has played 10 legs. His calculated score is:

1x1,1x2 + 2 outs = 1+3+2 = 6 points

Now divide the total points against legs played. $6/10 = 0.60$ PPA

Please note that it is the League Director who calculates the PPA values to each player.

The above is just an example to help members understand the process.

In addition to the above example.

When the score sheet reaches the CVDA League Director he adds the player's weeks point's value and legs to their existing total legs and total marks to calculate their actual PPA.

Example:

John Jones

Total Legs = 100

Total points = 120

Current PPA = $120/100 = 1.20$ PPA

Add new week total legs = 108

Add new week total points = 136

New PPA = $136/108 = 1.259$ PPA

This is why it is important to understand that an individuals PPA changes week to week depending how they have shot.

It is also very important to make sure the Home & Away teams' scoresheets match in ever detail and that the scoresheet is legible.

Team PPA Calculations

Now you understand how the individual PPA is calculated it will be easier to follow the Team PPA calculations.

When you put in your team roster into the CVDA you will have listed each player you wish to shoot on your team for the upcoming season.

Each member of your roster **that has a current CVDA individual PPA** will be used towards the Team PPA. (Note in Summer 2005 **all** members will have a PPA. New members will be given a nominal PPA for calculation purposes.)

In calculating the Team PPA's the League Director will add the total number of legs played by each member and the total number of points (marks) scored. Then he will divide the Marks v Legs to obtain the Team PPA.

Example

	Legs	Marks	Individual PPA
John Jones	108	136	1.259
Jim James	235	298	1.268
Jenny Jones	220	186	0.845
Jack James	249	358	1.437
Fred Jones	178	278	1.562
Totals	990	1256	

Team PPA = $1256/990 = 1.268$ PPA

Note: Do not add all the individual PPA's together and divide by the number of players in your roster. It does not provide an accurate figure. In the example above you would get 1.274 PPA (a small difference but it could mean the difference between playing in division 1 or division 2)

We hope this has helped.