



WACA
WESTERN AUSTRALIAN
CRICKET ASSOCIATION

MALE JUNIOR PREMIER CRICKET

Match Formats Review – Under 15s & 17s

**CREATING HISTORY.
INSPIRING CHAMPIONS.**

INTRODUCTION

**CREATING HISTORY.
INSPIRING CHAMPIONS.**



During the 2018-19 WA Premier Cricket Season, the WACA Cricket Operations Unit collected and analysed data from the season in order to provide feedback and recommendations on the status of Male Junior Premier Cricket in Western Australia.

This information was collected impartially and through data accessible to the Cricket Operations Unit via the MyCricket database.

The following information details the Cricket Operations Units findings and recommendations for the WADCC (Western Australian District Cricket Council), DJCC (District Junior Cricket Council) and all other relevant stakeholders to consider.

BACKGROUND



The WACA Cricket Operations Unit collected and analysed data to investigate the impact of the new 50 overs format in the Junior Premier Cricket Competition (Under 15s & Under 17s) in the 2018/19 season in comparison with the 60-over two-day cricket currently played.

Match scores (including runs, wickets and overs) were compiled across the home & away rounds of the past 4 seasons (2015/16, 2016/17, 2017/18 & 2018/19) to provide a statistical analysis of the impact of the new format in the Under 15s & Under 17s grades. Measurement factors such as runs per innings, runs per over, runs per wicket, wickets per innings, overs per innings and proportions of second innings were compared across the four seasons.

This information has been summarised in this presentation for further discussion.

STATISTICAL FINDINGS

Under 15's

**CREATING HISTORY.
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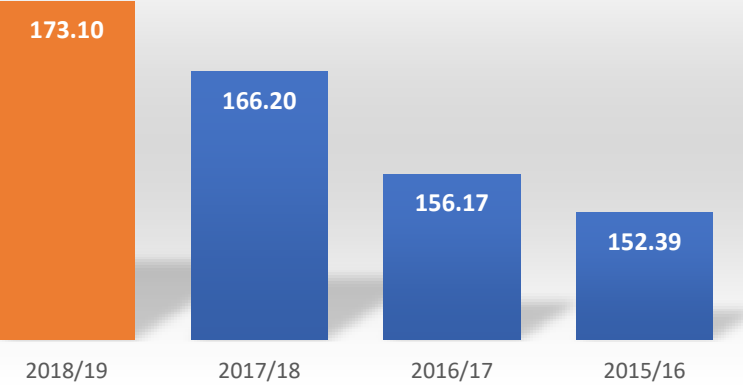
STATISTICAL FINDINGS

Under 15s – 60-overs Format

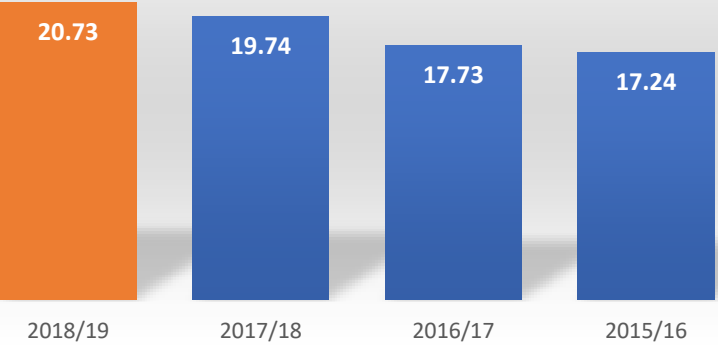
Comparison



Average Runs Scored Per Innings



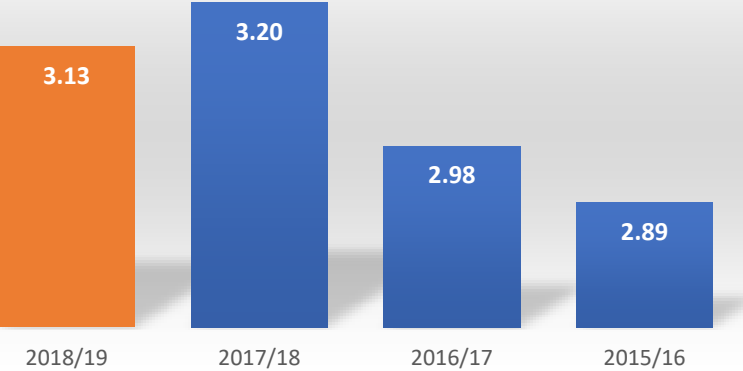
Average Runs Scored Per Wicket



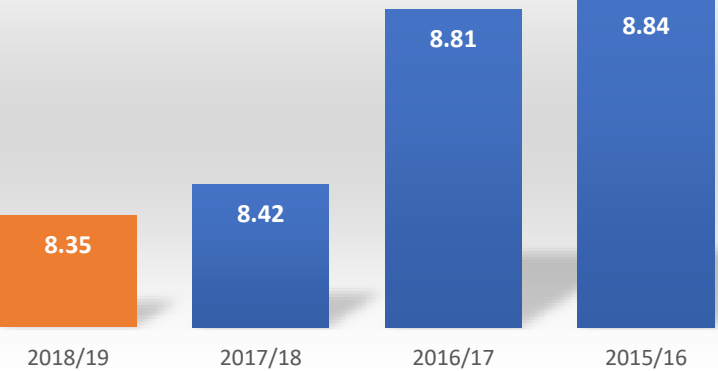
Average Overs Played Per Innings



Average Runs Scored Per Over



Average Wickets Lost Per Innings



- All matches are 60-overs a side two-day matches.
- Only first innings stats have been included for comparison.
- Fractions of overs were rounded to the nearest completed over (down for .1 & .2 and up for .3, .4 & .5).
- Percentage comparisons were conducted through averaging overall season figures (next slide).

STATISTICAL FINDINGS

Under 15s – 60-overs Format

Comparison



Key Findings:

- Across the four seasons, the overall runs per innings have risen considerably (about 14-15 runs per innings on average) in the 2018/19 season. [*~10% increase*]
- The run rate has increased slightly by about 0.11 runs per over across the total number of overs. [*~4% increase*]
- There has been a significant increase in total runs per wicket as they're tracking at 2.49 runs higher on average than previous seasons. [*~14% increase*]
- Players are batting for longer with a decrease in wickets lost as 0.34 less wickets were lost per innings this season. [*~4% decrease*]
- There has been a significant increase in the length of the batting innings as there have been 2.92 more overs being played per innings on average in the 2018/19 season. [*~6% increase*]

OVERALL	2015/16	2016/17	2017/18	2018/19
Total Innings	141	121	143	80
Total Runs	21487	18896	23766	13848
Total Overs	7431	6345	7430	4423
Total Wickets	1246	1066	1204	668

STATISTICAL FINDINGS

Under 15s – 50-overs Format Statistics / Comparison (2018/19 Season)



Key Findings:

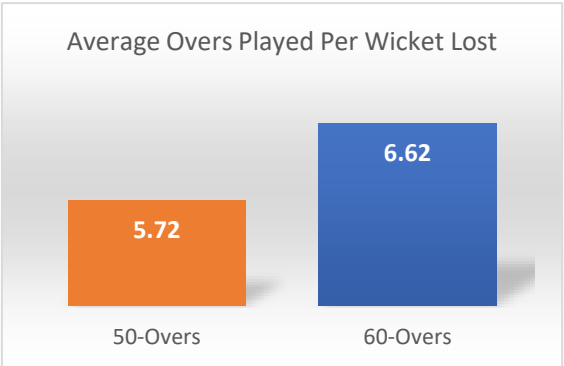
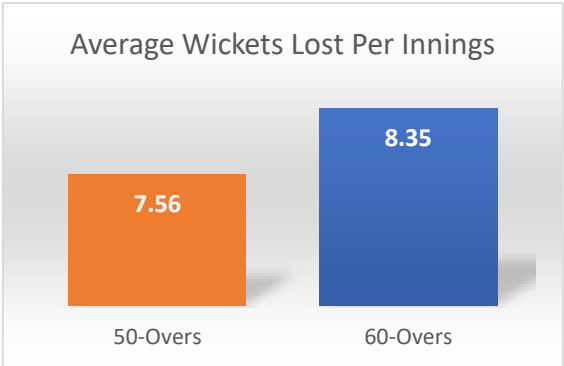
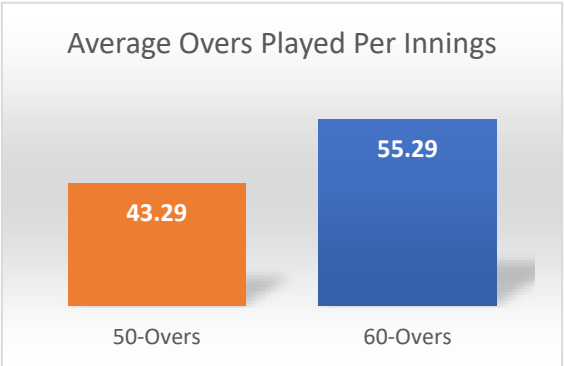
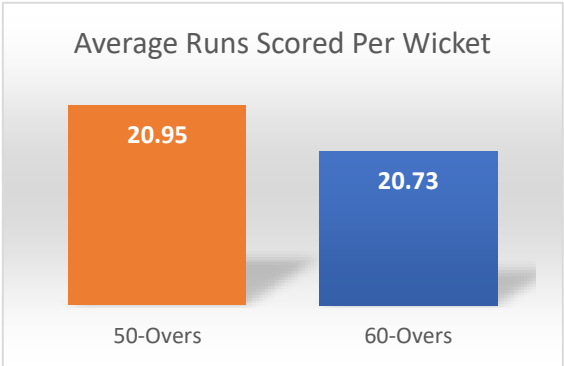
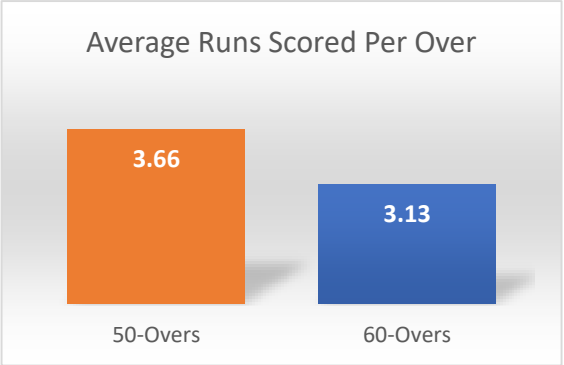
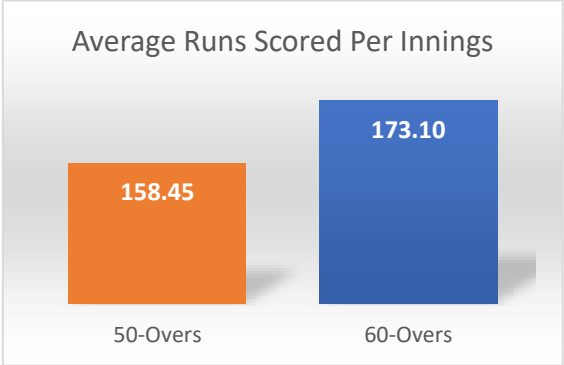
In the 2018/19 Season, on average, the 50-overs format had:

- 14.55 less runs scored per innings. [*~8.5% less*]
- 0.53 more runs scored per over. [*~17% more*]
- 0.22 more runs scored per wicket. [*~1% more*]
- 12 less overs played per innings. [*~5% less*] + *base difference is ~17%*
- 0.79 less wickets lost per innings. [*~9.5% less*]
- 0.90 less overs played per wicket lost. [*~13.5% less*]

Between the 50-overs format and the 60-overs format:

- There was only an average difference of 14.55 extra runs scored for an average of 12 extra overs faced at an average of 1.21 runs per over for those extra overs.
- 17% increase in runs scored per over in 50-overs format is a significant increase to demonstrate proactive approach to batting.

	2018/19 Season	50-overs Format	60-overs Format
Total Innings		55	80
Total Runs		8715	13848
Total Overs		2381	4423
Total Wickets		416	668

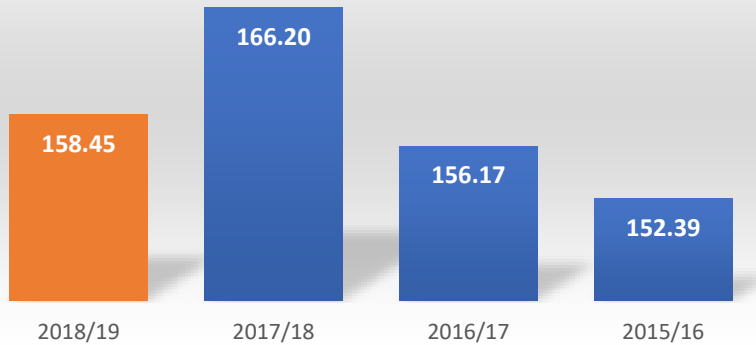


STATISTICAL FINDINGS

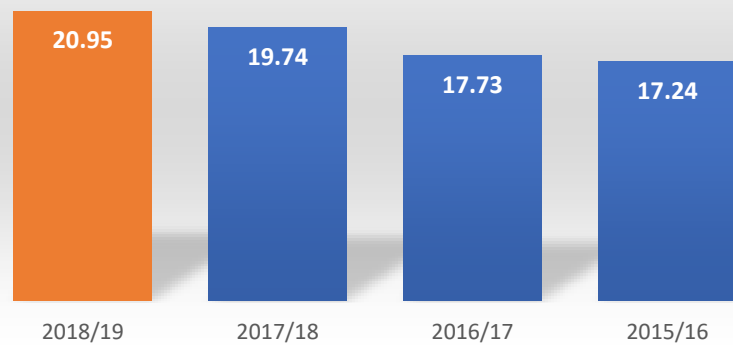
Under 15s – 50-overs & 60-overs Format Comparisons (Past Seasons)



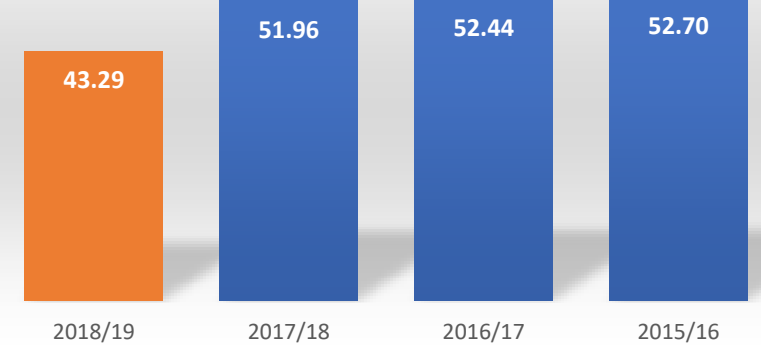
Average Runs Scored Per Innings



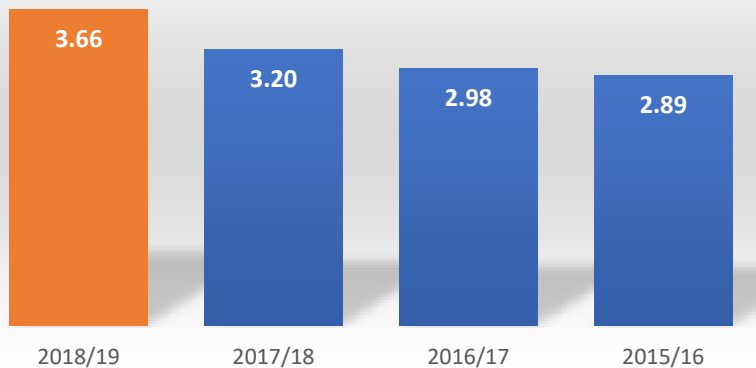
Average Runs Scored Per Wicket



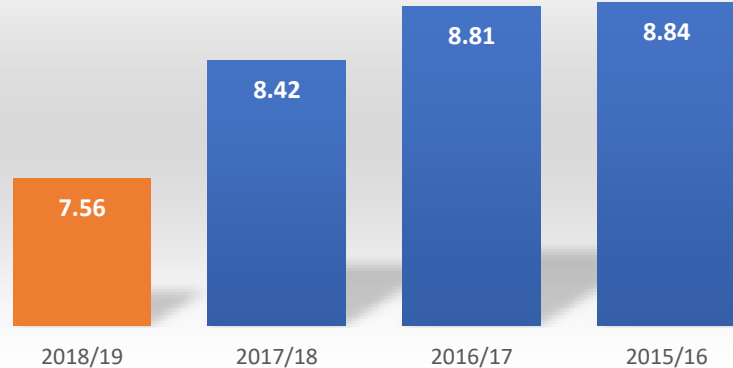
Average Overs Played Per Innings



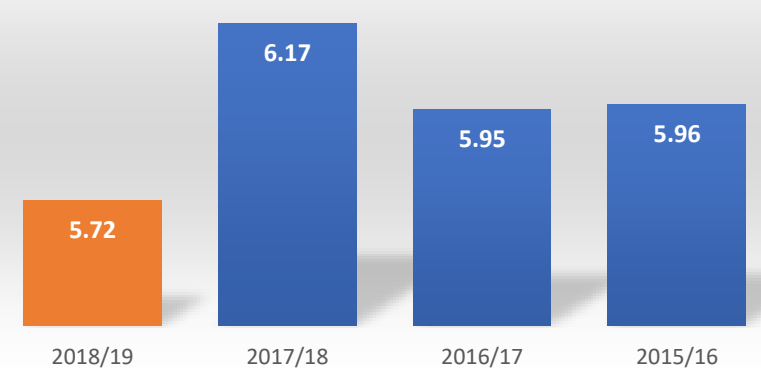
Average Runs Scored Per Over



Average Wickets Lost Per Innings



Average Overs Played Per Wicket Lost



- The graphics have 2018/19 season 50-overs format stats compared with 60-overs format stats of past 3 seasons.
- Fractions of overs were rounded to the nearest completed over (down for .1 & .2 and up for .3, .4 & .5).

- Only first innings stats have been included for comparison.

STATISTICAL FINDINGS

Under 15s – 50-overs & 60-overs Format Comparisons (Past Seasons)



Key Findings:

- The difference of average runs per innings has been very minimal despite the longer format in past seasons (about 0.2 runs per innings) while 2018/19 50-overs format figures were comparatively higher despite less overs. [*~0.13% more*] + *9.5% base difference*
- This has in effect caused the run rate per over to increase in the 50-overs format by about 0.64 runs per over across the total number of overs . [*~21% more*]
- Positive play has been evident with overall total runs per wicket in the 50-overs format tracking at 2.71 runs higher on average than previous seasons, hence batters making more runs. [*~15% more*]
- Although the basic difference of wickets lost per innings is 1.13 [*13%*] less for the 50-overs format, batters are getting out slightly more frequently as they're facing 0.31 [*~5%*] less overs per wicket as opposed to the 60-overs format. This difference however is very minimal to be definitive.
- Due to a reduced format, there's a *~17% base difference* in total possible overs faced, hence it explains the 9.08 overs difference between average overs faced. On average, players played 87.28% of available overs in the 60-overs format while they faced 86.58% of available overs in the 50-overs format, hence the difference being minimal. [*0.8% less*]

OVERALL	2015/16	2016/17	2017/18	2018/19
Total Innings	141	121	143	55
Total Runs	21487	18896	23766	8715
Total Overs	7431	6345	7430	2381
Total Wickets	1246	1066	1204	416

STATISTICAL FINDINGS

Under 17's

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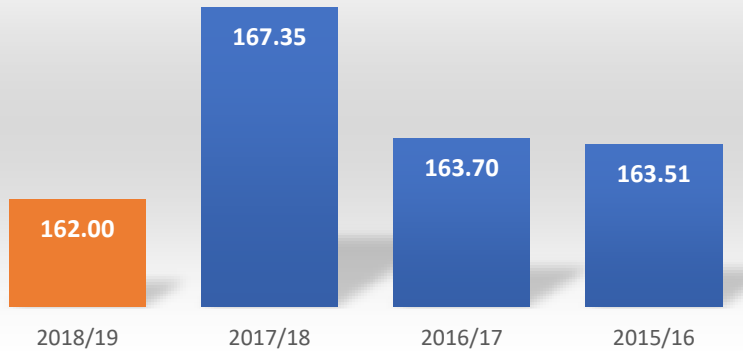
STATISTICAL FINDINGS

Under 17s – 60-overs Format

Comparison



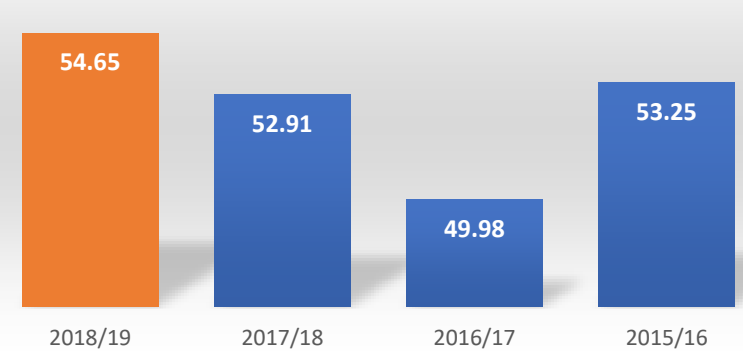
Average Runs Scored Per Innings



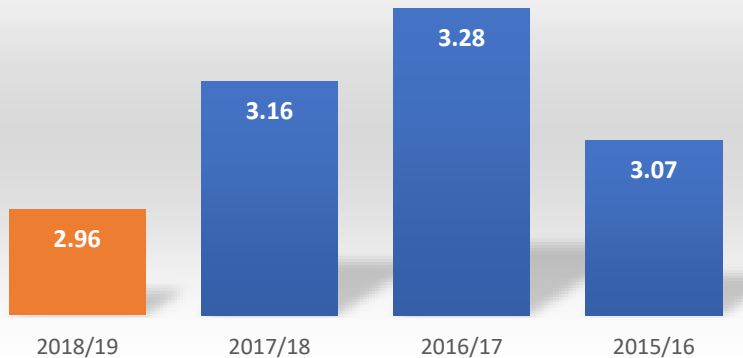
Average Runs Scored Per Wicket



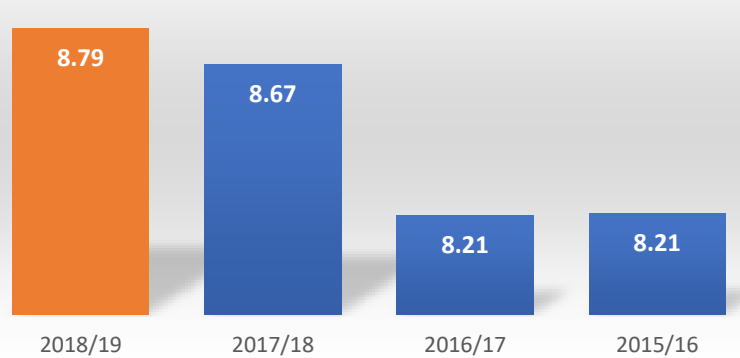
Average Overs Played Per Innings



Average Runs Scored Per Over



Average Wickets Lost Per Innings



- All matches are 60-overs a side two-day matches.
- Only first innings stats have been included for comparison.
- Fractions of overs were rounded to the nearest completed over (down for .1 & .2 and up for .3,.4 & .5).
- Percentage comparisons were conducted through averaging overall season figures (next slide).

STATISTICAL FINDINGS

Under 17s – 60-overs Format

Comparison



Key Findings:

- Across the four seasons, the overall runs per innings have decreased (about 2-3 runs per innings on average) in the 2018/19 season. [*~2% decrease*]
- This has in effect caused the run rate per over to decrease by about 0.21 runs per over across the total number of overs. [*~7% decrease*]
- The overall total runs per wicket are tracking at 1.28 runs lower on average than previous seasons. [*~6.5% decrease*]
- The players are losing more wickets as 0.43 more wickets were lost per innings this season, causing a slight increase. [*~5% increase*]
- While the players have been batting for longer periods of time (2.60 more overs played on average) [*~5% increase*] productivity of the innings in other factors isn't strongly evident.

OVERALL	2015/16	2016/17	2017/18	2018/19
Total Innings	141	126	144	80
Total Runs	23055	20626	24099	12960
Total Overs	7508	6297	7619	4372
Total Wickets	1158	1034	1249	703

STATISTICAL FINDINGS

Under 17s – 50-overs Format Statistics / Comparison (2018/19 Season)



Key Findings:

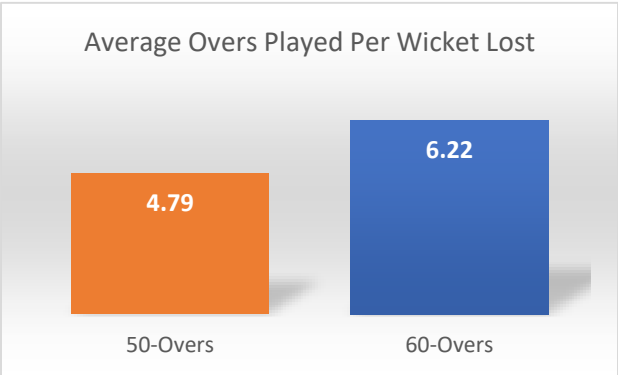
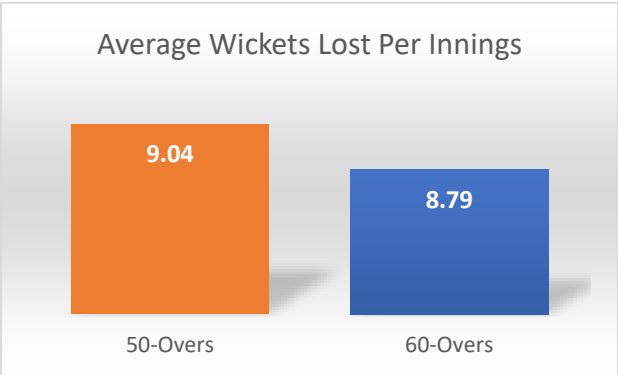
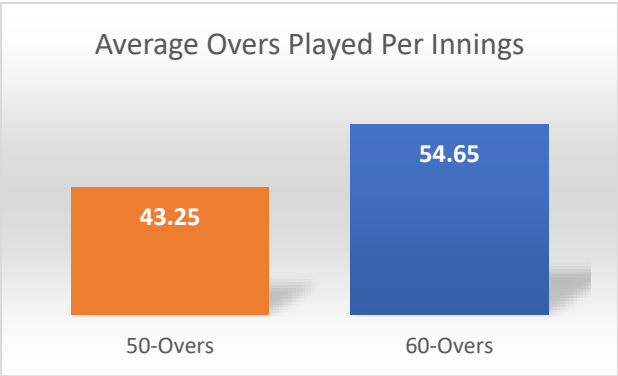
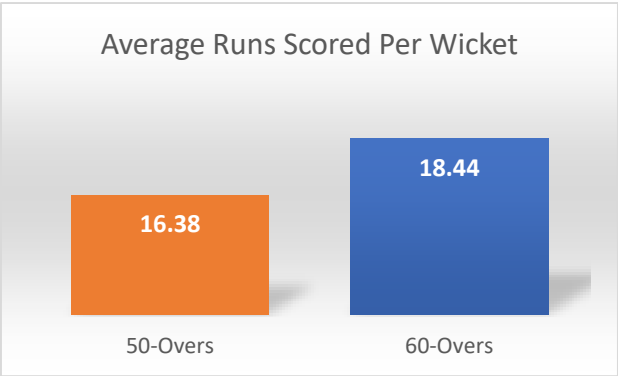
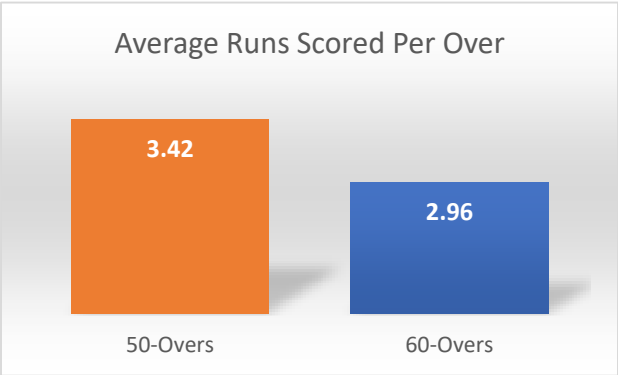
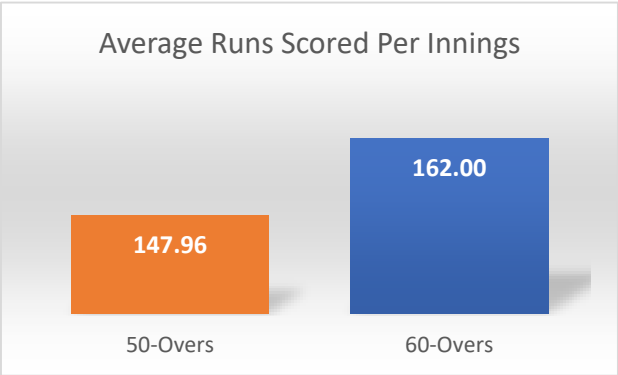
In the 2018/19 Season, on average, the 50-overs format had:

- 14.04 less runs scored per innings. [*~8.7% less*]
- 0.46 more runs scored per over. [*~15.5% more*]
- 2.06 less runs scored per wicket. [*~11% less*]
- 11.4 less overs played per innings. [*~4% less*] + *base difference is ~17%*
- 0.25 more wickets lost per innings. [*~3% more*]
- 1.43 less overs played per wicket lost. [*~23% less*]

Between the 50-overs format and the 60-overs format:

- There was only an average difference of 14.04 extra runs scored for an average of 11.4 extra overs faced at an average of 1.23 runs per over for those extra overs.
- 15.5% increase in runs scored per over in 50-overs format is a significant increase to demonstrate proactive approach to batting.
- 11% less runs scored per wicket is negative decrease to

	2018/19 Season	50-overs Format	60-overs Format	% less
pro				
OV	Total Innings	56	80	
•	Total Runs	8286	12960	more
ag	Total Overs	2422	4372	st per
inn	Total Wickets	506	703	



STATISTICAL FINDINGS

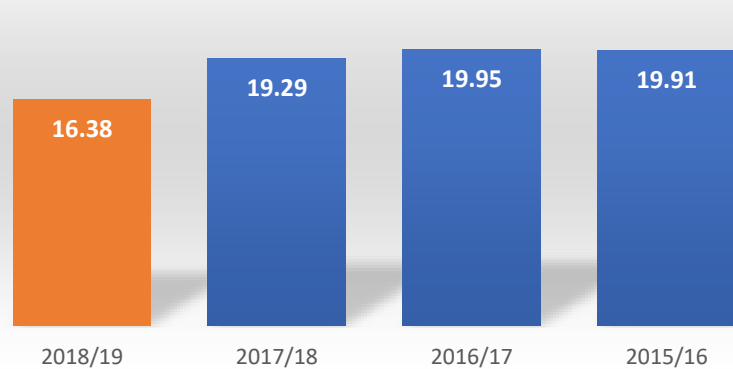
Under 17s – 50-overs & 60-overs Format Comparisons (Past Seasons)



Average Runs Scored Per Innings



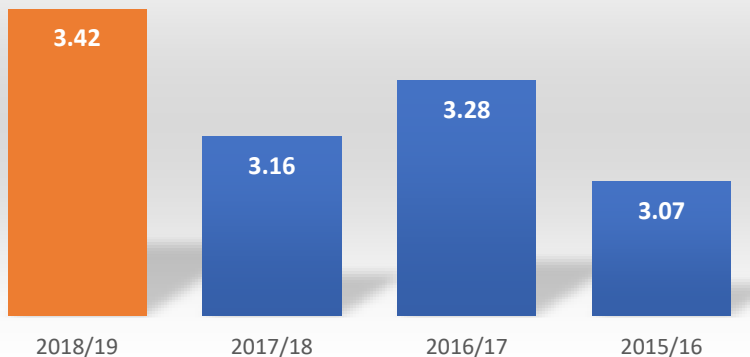
Average Runs Scored Per Wicket



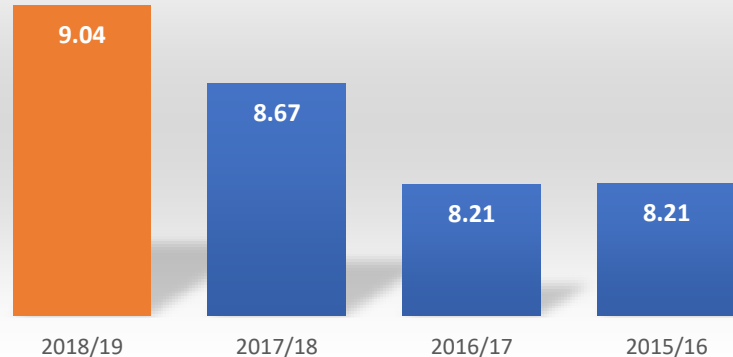
Average Overs Played Per Innings



Average Runs Scored Per Over



Average Wickets Lost Per Innings



Average Overs Played Per Wicket Lost



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- Fractions of overs were rounded to the nearest completed over (down for .1 & .2 and up for .3, .4 & .5).

- Only first innings stats have been included for comparison.

STATISTICAL FINDINGS

Under 17s – 50-overs & 60-overs Format Comparisons

(Past Seasons)



Key Findings:

- The difference of average runs per innings has been proportional in terms of the longer format in past seasons (about 17 runs per innings) as 2018/19 50-overs format figures were comparatively lower due to less overs. [*~10% less*] - *9.5% base difference*
- Despite this, the run rate per over has increased in the 50-overs format by about 0.25 runs per over across the total number of overs . [*~8% more*]
- The overall total runs per wicket in the 50-overs format are tracking at 3.34 runs lower on average than 60-overs format averages, hence batters making less runs per batting innings. [*~17% less*]
- With players batting aggressively, it has resulted in an increase in wicket-taking frequency as more wickets lost are per innings with the difference being 0.68 [*~8% more*] wickets lost for the 50-overs format.
- Batters are getting out slightly more frequently as they're facing 1.43 less overs per wicket on average as opposed to the 60-overs format. [*~23% less*]
- Due to a reduced format, there's a *~17% base difference* in total possible overs faced, hence it explains the 8.8 overs difference between average overs faced. On average, players played 86.75% of available overs in the 60-overs format while they faced 86.50% of available overs in the 50-overs format, hence the difference being minimal. [*0.25% less*]

OVERALL	2015/16	2016/17	2017/18	2018/19
Total Innings	141	126	144	56
Total Runs	23055	20626	24099	8286
Total Overs	7508	6297	7619	2422
Total Wickets	1158	1034	1249	506

CONCLUSION

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CONCLUSION



The data shows some positive trends in support of the retention of the new 50-overs One-Day format at Under 15s and Under 17s level.

There are multiple reasons that could explain the difference, while interpretation of that data will also require contextual understanding with consideration of out-of-control factors such as talent pool, ground and weather conditions & fixturing balance etc.

The detailed analysis is aimed at suggesting support for a longer one-day style limited-overs format in relation to modernizing underage cricket to promote a more proactive approach to the game. It is also important to ensure that retention and development factors must be considered for a sustainable and high-quality standard of the Junior Premier Cricket competition at the Under 15s & Under 17s level.



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