

STATISTICAL REVIEW AND MATCH ANALYSIS

## 2012 RBS 6 NATIONS

IRB GAME ANALYSIS

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Because Rugby is an ever-changing, dynamic game, it is always subject to change. The changes may be progressive, they may be subtle, some may be surprising, others may be temporary.

And so it was in the RBS 6 Nations 2012 where a pattern of changes soon became apparent.
It became clear that winning margins were becoming tighter. Towards the end of most of the matches in 2012, the final outcome could have changed as the result of just one score. This was certainly not the case 10 years ago, but was perhaps an inevitable - if not positive - consequence of the fact that fewer tries were scored than in previous years.

## TRIES

This was the first most notable feature in 2012 - the difficulty teams had in scoring tries. At the end of the Championship, the average number of tries scored per game was 3.1 - a rate of scoring that was the lowest in the history of the 6 Nations.

This figure continued the gradual reduction in the number of tries being scored that started in the early 2000s. The table shows, inter alia, that:

- In 2012, there were $40 \%$ fewer tries scored than 10 years ago.

Year

| Average <br> No. of tries <br> per game | Total No. <br> of tries |
| :---: | :---: |
| 5.0 | 75 |
| 5.0 | 75 |
| 5.0 | 75 |
| 5.0 | 74 |
| 4.5 | 68 |
| 4.7 | 71 |
| 4.1 | 61 |
| 4.3 | 65 |
| 3.3 | 50 |
| 3.7 | 56 |
| 3.2 | 48 |
| 3.4 | 51 |
| 3.1 | 46 |

- There were 29 fewer tries scored in 6 Nations 2012 than in 6 Nations 2002.


A further illustration of the paucity of tries in the current Game is a brief examination of England's record over the last decade or so:

- In 2001 and 2002, England had two successful seasons, winning eight matches out of 10. They scored 52 tries.
- In 2011 and 2012, England had similar success, again winning eight matches out of 10. This time, however, they scored just 19 tries.

This reduction was not however because England has found a particular difficulty in scoring tries. In fact, over the last two years only one other team has scored more tries - the reduction is simply a reflection of the increasing difficulty in scoring tries in the modern Game at the highest level.

It is not surprising therefore that Wales - winners of a Grand Slam - scored fewer tries than any of the other seven Grand Slam winners since 2000. This again was the continuation of a trend. An examination of the eight Grand Slams this last decade shows that the most recent four produced fewer tries than any of the previous four and, at the same time, conceded fewer tries.

| Year | Grand Slam <br> winner | Tries <br> scored | Tries <br> conceded |
| :---: | :---: | :---: | :---: |
| 2002 | FRANCE | 15 | 7 |
| 2003 | ENGLAND | 18 | 4 |
| 2004 | FRANCE | 14 | 5 |
| 2005 | WALES | 17 | 8 |
|  | Total | 64 | 24 |
| 2008 | WALES | 13 | 2 |
| 2009 | IRELAND | 12 | 3 |
| 2010 | FRANCE | 13 | 6 |
| 2012 | WALES | 10 | 3 |
|  | Total | 48 | 14 |
|  |  |  |  |

## SIZE OF PLAYERS

A number of reasons have been given for this paucity of tries. They include better organised defences and the introduction of specialised defence coaches. A further suggestion is that the progressive increase in the physical size and fitness of current international players has reduced the opportunities that can arise from physical mismatches between players. The average weight of players of each of the six teams in this year's Championship, for example, was as follows:

$$
\begin{array}{ll}
106 \mathrm{~kg}-16 \mathrm{st} 9 \mathrm{lbs} & \text { WALES } \\
104 \mathrm{~kg}-16 \mathrm{st} 5 \mathrm{lbs} & \text { SCOTLAND } \\
103 \mathrm{~kg}-16 \mathrm{st} 3 \mathrm{lbs} & \text { IRELAND } \\
102 \mathrm{~kg}-16 \mathrm{st} 1 \mathrm{lbs} & \text { FRANCE } \\
102 \mathrm{~kg}-16 \mathrm{st} 1 \mathrm{lbs} & \text { ITALY } \\
101 \mathrm{~kg}-15 \mathrm{st} 13 \mathrm{lbs} & \text { ENGLAND }
\end{array}
$$



Nowhere was the change in physicality in players better illustrated than in the weight of the Welsh backline. This is shown in the following table which gives the weight of the Welsh centres and the Welsh wings.

| Player no | Weight - st/lbs | Weight - kgs |
| :---: | :---: | :---: |
| 11 | 16st 6lbs | 104kg |
| 12 | 17st 4lbs | 110kg |
| 13 | 16st 3lbs | 103kg |
| 14 | 16st 6lbs | 104kg |

In previous decades, it was not unusual for international teams to have players in such positions who were around four stone or 25 kgs lighter.

## STATIONARY BREAKDOWNS

One area of the Game that caused increasing concern during the Championship

Time available
10 secs 16 secs 8 secs 17 secs 15 secs 15 secs
7 secs 9 secs 10 secs 23 secs 12 secs 7 secs 7 secs 10 secs 9 secs 7 secs 15 secs 11 secs 10 secs

## SCRUM

Research shows that at the Tier 1 level there are many more collapses, scrum penalties and free kicks than at any Tier below. This was re-confirmed at RWC 2011 and can be seen in the following table which shows that Tier 1 matches contained two and a half times more collapses than Tier $2 / 3$ matches and two and a half times as many penalties and free kicks.


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| RWC 2011 | Collapses per |  |  |
| :---: | :---: | :---: | :---: |
| $\mathbf{4 0}$ matches | Resets per | Pens/fkicks per |  |
| Tier 1 v Tier 1 | 50 | 31 | 100 scrums |
| Tier 2 v Tier 2 | 19 | 9 | 41 |

Analysis of scrums in this year's competition confirmed that any improvement over last year's 6 Nations and RWC 2011 was no more than marginal and that the core problems remained
$\left.\begin{array}{|c|ccc|}\hline & \text { Collapses per } \\ \text { 100 scrums }\end{array} \begin{array}{c}\text { Resets per } \\ \text { 100 scrums }\end{array} \quad \begin{array}{c}\text { Pens/fkicks per } \\ \text { 100 scrums }\end{array}\right]$

Several matches served to emphasise the problems;

- The England v Wales match produced six scrums, four collapses, four resets and two penalties. The ball came back into play just four times.
- The Ireland v Scotland game had 20 scrums, eight collapses, seven resets and seven penalties and free kicks - and took up over 21 minutes of available playing time.
- There were 10 scrums in the Wales v France game - seven resulted in a penalty or free kick.

Current scrums are also having an effect on the shape of the Game. With fewer scrums, more penalties and free kicks, scrum possession has now become a less significant part of the Game. In this year's Championship, for example, Wales had possession from the scrum on only 14 occasions in total. In four matches they obtained possession on three occasions and in the fifth match they obtained possession twice.

This is in sharp contrast to Wales' Grand Slam in 2005 when the ball came back from the scrum 47 times.

An examination of 6 Nations 2005 shows, therefore, quite a different picture:
In 6 Nations 2005, there were 24 collapses per 100 scrums
In 6 Nations 2012, there were 49 collapses per 100 scrums

In 6 Nations 2005, there were 15 penalties/free kicks per 100 scrums In 6 Nations 2012, there were $\mathbf{3 9}$ penalties/free kicks per 100 scrums

In addition, the scrums in 2005 took an average of 29 seconds to come back into play. In 2012 this figure had increased to 56 seconds - with some matches comprising scrums that averaged well over a minute.

## GAME ELEMENTS AND TEAM SUMMARY

The remainder of this report provides a summary of major constituent game elements and a detailed statistical summary of the Championship and each team. It shows for example that:

- Over half of the matches had a points margin of less than 10
- England had the highest kick success rate (83\%); Italy the lowest (53\%)
- Backs scored over six times as many tries as forwards
- Ireland scored the most tries (13) - Scotland and Italy, the least (4)
- Ireland was the only team to score most of its points from tries
- Wales scored 25 tries in the last three years - only two were scored by forwards
- Wales had the best defence, conceding only three tries
- Thirteen tries came from lineouts, 12 came from turnovers.
- Only four tries came from scrum possession
- England was the only team to neither score nor concede a try from the lineout
- One in three tries originated from inside the scoring team's half
- $63 \%$ of tries contained three or fewer rucks and mauls
- $52 \%$ of tries contained three or fewer passes
- Wales obtained the most possession, Ireland the least
- The most passes in a game was 380 (Wales $v$ Scotland), the fewest 164 (England $v$ Ireland)
- England passed the least, Scotland passed the most
- Scotland's forwards made almost 100 more passes than England's forwards
- Wales' centres passed the ball the least
- England made the most kicks out of hand, Scotland the least
- Wales' No. 9 made half as many kicks as any other team's No. 9
- Wales No. 10 made at least $30 \%$ more kicks than any other team's No. 10
- Three quarters of all restarts were contestable
- The kicking team regained possession once in every four
- Italy had the most successful lineout both on their own throw-in and on their opponents'.
- Wales had the most successful scrum on both their own put-in and their opponents' put-in
- France conceded the most penalties and free kicks in a game (17) and also the least (4)
- Of penalties awarded at the breakdown, $55 \%$ went in favour of the attacking team and $45 \%$ went to the defending team
- Scotland received the most yellow cards (5); France the least (0)


## 20126 NATIONS <br> FINAL STANDINGS \＆RESULTS



| 年 | France | 30－12 | Italy |
| :---: | :---: | :---: | :---: |
| （3） | Scotland | 6－13 | England |
| $\xrightarrow{48}$ | Ireland | 21－23 | Wales |
| 0 | Italy | 15－19 | England |
| 些 | Wales | 27－13 | Scotland |
| ＊ | Ireland | 42－10 | Italy |
| 筍 | England | 12－19 | Wales |
| 38 | Scotland | 17－23 | France |
| 浆 | France | 17－17 | Ireland |
| N＂M | Wales | 24－3 | Italy |
| 480 | Ireland | 32－14 | Scotland |
| 倠 | France | 22－24 | England |
| 0 | Italy | 13－6 | Scotland |
| Wivo | Wales | 16－9 | France |
| 畼 | England | 30－9 | Ireland |

This Report is divided into two sections.

Section 1 takes a brief look at constituent game elements in 20126 Nations and compares them to 6 Nations in earlier years.

Section 2 comprises a detailed statistical analysis of all matches played in the Championship, including comparatives.

## 20126 NATIONS

The core elements of the 20126 Nations showed little change from the 20116 Nations as shown in the following comparisons. There were slightly fewer passes, rucks and mauls. All other elements were very similar. These changes are considered in further detail in the more comprehensive analyses which follow in a later section.

## Averages per match

|  | $2012$ <br> 6 Nations | $2011$ <br> 6 Nations | $2010$ <br> 6 Nations | $2009$ <br> 6 Nations | $2008$ <br> 6 Nations | $2007$ <br> 6 Nations |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Points | 36 | 39 | 40 | 40 | 40 | 46 |
| Tries | 3.1 | 3.4 | 3.2 | 3.7 | 3.3 | 4.3 |
| Penalty Goals | 5.1 | 5.4 | 5.5 | 4.9 | 5.5 | 5.7 |
| Drop Goals | 0.2 | 0.3 | 0.7 | 0.6 | 0.3 | 0.3 |
| Ball In Play | 48\% | 49\% | 48\% | 49\% | 50\% | 46\% |
| Passes | 268 | 297 | 251 | 273 | 259 | 261 |
| Ruck/Mauls | 181 | 194 | 158 | 174 | 179 | 167 |
| Kicks | 46 | 46 | 62 | 65 | 57 | 53 |
| Lineouts | 23 | 24 | 25 | 26 | 28 | 31 |
| Scrums | 14 | 12 | 15 | 15 | 16 | 17 |
| Penalties | 21 | 21 | 22 | 23 | 18 | 21 |

The following data also comes from the detailed report that follows and reflects in summary form the modern Game as expressed through this year's 6 Nations Championship:

|  | $2012$ <br> 6 Nations | $2011$ <br> 6 Nations | $2010$ <br> 6 Nations | $2009$ <br> 6 Nations |
| :---: | :---: | :---: | :---: | :---: |
| \% of points from TRIES | 43\% | 43\% | 40\% | 47\% |
| \% of points from PENALTY GOALS | 43\% | 41\% | 42\% | 37\% |
| \% of points from CONVERSIONS | 12\% | 13\% | 12\% | 11\% |
| \% of points from DROP GOALS | 2\% | 3\% | 6\% | 5\% |
| TRIES SCORED BY BACKS | 85\% | 73\% | 75\% | 77\% |
| TRIES SCORED BY FORWARDS | 13\% | 25\% | 25\% | 23\% |
| PENALTY TRIES | 2\% | 2\% | - | - |

MATCHES with point margin of 19 or less

| CONVERSION SUCCESS RATE | $\mathbf{7 4 \%}$ | $\mathbf{7 5 \%}$ | $75 \%$ | $61 \%$ |
| :---: | :---: | :---: | :---: | :---: |
| PENALTY GOAL SUCCESS RATE | $\mathbf{7 2 \%}$ | $75 \%$ | $74 \%$ | $71 \%$ |
| DROP GOAL SUCCESS RATE | $\mathbf{1 5 \%}$ | $36 \%$ | $47 \%$ | $47 \%$ |
|  |  |  |  |  |


| matches won by TEAM SCORING MOST TRIES | $\mathbf{1 2}$ of $\mathbf{1 5}$ | 8 of 15 | 11 of 15 | 12 of 15 |
| :---: | :---: | :---: | :---: | :---: |
| matches won by TEAM SCORING LEAST TRIES | $\mathbf{1}$ of $\mathbf{1 5}$ | 2 of 15 | 2 of 15 | 1 of 15 |


| \% of TRIES FROM LINEOUT POSSESSION | $\mathbf{3 3 \%}$ | $39 \%$ | $23 \%$ | $39 \%$ |
| ---: | :---: | :---: | :---: | :---: |
| \% of TRIES FROM SCRUM POSSESSION | $\mathbf{1 1 \%}$ | $14 \%$ | $27 \%$ | $14 \%$ |
| $\%$ of TRIES FROM PENALTY/FREE KICKS | $\mathbf{1 5 \%}$ | $10 \%$ | $6 \%$ | $2 \%$ |
| \% of TRIES FROM TURNOVER/ERROR | $\mathbf{2 6 \%}$ | $16 \%$ | $13 \%$ | $18 \%$ |
| $\%$ of TRIES FROM OPPONENTS KICKS | $\mathbf{9 \%}$ | $18 \%$ | $29 \%$ | $25 \%$ |
|  | $\mathbf{6 \%}$ of TRIES FROM RESTARTS | $\mathbf{6 \%}$ | $3 \%$ | $2 \%$ |


| TIME | $\begin{gathered} 48 \% \text { or } \\ 38 \mathrm{~m} 12 \mathrm{~s} \end{gathered}$ | $\begin{gathered} 49 \% \text { or } \\ 39 \mathrm{~m} 10 \mathrm{~s} \end{gathered}$ | $\begin{gathered} 48 \% \text { or } \\ 38 m 12 s \end{gathered}$ | $\begin{gathered} 49 \% \text { or } \\ 39 m 32 s \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |


| \% of all PASSES MADE BY BACKS | 34\% | 36\% | 40\% | 36\% |
| :---: | :---: | :---: | :---: | :---: |
| \% of all PASSES MADE BY SCRUM HALF | 49\% | 49\% | 45\% | 46\% |
| \% of all PASSES MADE BY FORWARDS | 17\% | 15\% | 15\% | 18\% |
| \% of LINEOUT POSSESSION RETAINED | 83\% | 84\% | 81\% | 83\% |
| \% of SCRUM POSSESSION RETAINED | 85\% | 81\% | 84\% | 90\% |
| \% of RUCK/MAUL POSSESSION RETAINED | 93\% | 95\% | 95\% | 93\% |

YELLOW AND RED CARDS

### 1.0 SCORING

There were 538 points scored in the 15 matches, giving an average of 36 points per game.
(6N 2011 - 589, average per game 39)

|  | Total |  |
| :---: | :---: | :---: |
| Points |  |  |
| Converted Tries | 34 | 238 |
| Unconverted Tries | 12 | 60 |
| Penalty Goals | 77 | 231 |
| Drop Goals | 3 | 9 |
|  |  |  |


|  | \% of points <br> from tries |
| :---: | :---: |
| $20126 N$ | $43 \%$ |
| $20116 N$ | $43 \%$ |
| $20106 N$ | $40 \%$ |
| $20096 N$ | $47 \%$ |
| $20086 N$ | $42 \%$ |
|  |  |

The points were made up as follows:


Scoring Details in 6 Nations

|  | Av points per game | Av tries per game | Conversion success rate | Av pen goals per game | Try: penalty ratio | Av drop per game |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2012 6N | 36 | 3.1 | 74\% | 5.1 | 1 to 1.7 | 0.2 |
| 2011 6N | 39 | 3.4 | 75\% | 5.4 | 1 to 1.6 | 0.3 |
| 2010 6N | 40 | 3.2 | 75\% | 5.5 | 1 to 1.7 | 0.7 |
| 2009 6N | 40 | 3.7 | 61\% | 4.9 | 1 to 1.3 | 0.6 |
| 2008 6N | 40 | 3.3 | 84\% | 5.5 | 1 to 1.7 | 0.4 |

### 1.1 SCORING PROFILES of the modern Game

The following table shows the comparative average-per-game figures for the 5 and 6 Nations Championships played in 1962, 1972, 1982, 1992, 2002 - and compares them with 6 Nations 2012

|  | Converted Tries | Unconverted Tries | Tries | Penalty Goals | Drop Goals | Conversion Success |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6N 2012 | 2.3 | 0.8 | 3.1 | 5.1 | 0.2 | 74\% |
| 6N 2002 | 3.8 | 1.2 | 5.0 | 5.9 | 0.2 | 76\% |
| 5N 1992 | 2.3 | 1.1 | 3.4 | 4.4 | 0.4 | 68\% |
| 5N 1982 | 1.5 | 1.1 | 2.6 | 5.4 | 0.8 | 58\% |
| 5N 1972 | 1.6 | 1.2 | 2.8 | 3.2 | 0.3 | 57\% |
| 5N 1962 | 0.8 | 0.7 | 1.5 | 1.2 | 0.3 | 53\% |

### 1.2 WINNING MARGINS

The winning margins in each of the 15 matches fell into the following ranges:

Points Difference in 20126 Nations

| Points Difference | No of matches $\quad$ Cumulative |  | $\mathbf{2 0 1 1}$ <br> $\mathbf{6 ~ N a t i o n s ~}$ |
| :---: | :---: | :---: | :---: |
| draw | $\mathbf{1}$ |  | - |
| $\mathbf{1 - 5}$ | $\mathbf{3}$ | $\mathbf{4}$ with 5 points or less | 4 |
| $\mathbf{6 - 1 0}$ | $\mathbf{5}$ | $\mathbf{9}$ with 10 points or less | 5 |
| $\mathbf{1 1 - 2 0}$ | $\mathbf{3}$ | $\mathbf{1 2}$ with 20 points or less | 5 |
| $\mathbf{2 1 - 3 0}$ | $\mathbf{2}$ | $\mathbf{1 4}$ with 30 points or less | - |
| $\mathbf{3 1 - 4 0}$ | $\mathbf{1}$ | $\mathbf{1 5}$ with 40 points or less | - |
| $\mathbf{4 1 - 5 0}$ | - | with 50 points or less | 1 |

Not surprisingly, points scored and conceded varied throughout the various teams - the average points per team are shown below:


### 1.3 PENALTY GOALS

There were 77 penalty goals kicked in 2012 - four less than in 2011.

|  | Penalty Goals kicked |  |  | Tries Scored | Penalty Goals Scored | Ratio Tries: PGs |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2012 6N | 77 |  | Ireland <br> Wales <br> Italy <br> France <br> England <br> Scotland | 13 | 12 | 1 to 0.9 |
| 2011 6N | 81 |  |  | 10 | 15 | 1 to 1.5 |
| 2010 6N | 83 |  |  |  |  |  |
| 2009 6N | 74 |  |  | 4 | 7 | 1 to 1.8 |
| 2008 6N | 86 |  |  | 8 | 16 | 1 to 2.0 |
|  |  |  |  | 7 | 17 | 1 to 2.4 |
|  |  |  |  | 4 | 10 | 1 to 2.5 |

## 1．4 IMPACT OF THE PENALTY GOAL ON MATCH RESULTS

It still remains true that tries win matches．In the 20126 Nations，the winning team scored the most tries in 12 of the 15 matches or $80 \%$ of matches．In 2011 the figure was $53 \%$ ，in 2010 and 2009 it was $73 \%$ and $80 \%$ respectively．

Only one team scored fewer tries than their opponents and won the match（England＇s win v Italy）． In the remaining two matches，one was drawn and in the other tries were equal．

## 2．0 TRY SCORING

The total number of tries，penalty goals and drop goals scored by each country in 2012 was as follows：

|  |  | Total Scores |  |  |  | Ireland Wales | Scoring \％ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Tries | Penalty Goals | Drop Goals |  |  | \％of points from Tries | \％of points from Kicks |
| ＊ | Ireland | 13 | 12 | 0 |  |  | 54\％ | 46\％ |
| 䌩 | Wales | 10 | 15 | 0 |  |  | 46\％ | 54\％ |
| \％ | France | 8 | 16 | 1 | 年 | France | 40\％ | 60\％ |
| \％ | England | 7 | 17 | 0 | 0 | Italy | 38\％ | 62\％ |
| 83） | Scotland | 4 | 10 | 0 | （3） | Scotland | 36\％ | 64\％ |
| 0 | Italy | 4 | 7 | 2 | 骨 | England | 36\％ | 64\％ |

## 2．1 RATE OF TRY SCORING

The table immediately above shows the number of tries scored by each country．The table does not show however how effective each team was in scoring tries in relation to the possession that it obtained．A team may obtain little possession but still manage to score a significant number of tries．The following paragraphs consider this and show how successful each team was in converting possession into tries．

This was done by adding together the time each team was in possession of the ball in each of the matches played and then dividing it by the number of tries scored. The result then gave a rate of try scoring - or a measure of how effective each country was in converting possession into tries.

### 2.2 RATE OF TRY CONCEDING

Following the above exercise, the converse was looked at, i.e. how effective was each team in restricting tries in relation to the possession that their opponents obtained. The following paragraph measures this by illustrating how successful each team was in preventing their

|  | Wales | Conceded | 6 Nations | 6 Nations |
| :---: | :---: | :---: | :---: | :---: |
|  |  | 3 | Try conceded every 31min 24s | Try conceded every 13 min 35 secs |
|  | England | 4 | 26min 05s | 18 min 05 secs |
| 倠 | France | 8 | 12min 19s | 11 min 08 secs |
| * | Ireland | 8 | 11min 53s | 25 min 31 secs |
|  | Scotland | 11 | 7min 55s | 9min 06secs |
| 1 | Italy | 12 | 7min 49s | 6 min 30 secs | opposition from converting possession into tries. This was done by adding together the total time the team's opponents were in possession of the ball - and then dividing it by the number of tries conceded. The result then gave a rate of try scoring by the opposition.

### 2.3 PLAYERS AND TRIES

Of the 46 tries scored in the 15 matches:


Of the 26 tries scored by Wales in the last three years only two have been scored by a forward. The breakdown between the six competing teams is shown below:

|  |  | Tries by Backs 2012 6N | Tries by Forwards 2012 6N | Penalty Tries 2012 6N | Tries by Backs 2011 6N | Tries by Forwards 2011 6N | Penalty Tries 2012 6N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | England | 5 | 1 | 1 | 10 | 3 | 0 |
|  | Ireland | 10 | 3 | 0 | 8 | 2 | 0 |
|  | France | 8 | 0 | 0 | 6 | 3 | 1 |
|  | Wales | 10 | 0 | 0 | 5 | 1 | 0 |
|  | Italy | 3 | 1 | 0 | 4 | 2 | 0 |
|  | Scotland | 3 | 1 | 0 | 4 | 2 | 0 |
|  | Total | 39 | 7 | 0 | 37 | 14 | 0 |

### 3.0 TRIES

### 3.1 SOURCE OF TRIES

There were 46 tries scored in the 20126 Nations - five fewer than 2011.

The teams scoring the tries obtained possession of the ball prior to the scoring of the try from a variety of sources. This is shown in the following chart and table:


|  | $2012$ <br> 6 Nations | $2011$ <br> 6 Nations |
| :---: | :---: | :---: |
| Lineout - Own | 13 | 16 |
| Turnover/Handling Error | 12 | 8 |
| Penalty/Free Kick | 7 | 5 |
| Opponents Kick | 4 | 9 |
| Scrum -Own | 4 | 6 |
| Lineout - Opp | 2 | 4 |
| Restart - Opp | 2 | 2 |
| Restart - Own | 1 | - |
| Scrum - Opp | 1 | 1 |
|  | 46 | 51 |



Analysis of matches played at international level, over several years, have shown that the most fruitful source of possession has consistently and clearly been the lineout. In 2012, lineout possession was closely followed by turnovers/errors.

The following table shows the source of tries scored by the six teams:

|  | Ireland <br> Wales | Lineout | Scrum | Pen/FK | Opp Kick | Turnover | Restart | Total Scored |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 6 | 1 | 2 | 1 | 3 | 0 | 13 |
|  |  | 4 | 1 | 2 | 0 | 3 | 0 | 10 |
| -7 | France | 2 | 2 | 1 | 1 | 2 | 0 | 8 |
| 筍 | England | 0 | 1 | 1 | 4 | 1 | 0 | 7 |
| (3) | Scotland | 1 | 0 | 1 | 0 | 2 | 0 | 4 |
| 0 | Italy | 2 | 0 | 0 | 0 | 1 | 1 | 4 |

The next table shows the source from which their opponent＇s tries came：

| ving | Wales <br> England | Lineout | Scrum | Pen／Fk | Opp Kick | Turnover | Restart | Total Conceded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 2 | 0 | 1 | 0 | 0 | 0 | 3 |
|  |  | 0 | 1 | 0 | 0 | 2 | 1 | 4 |
| 奖 | Ireland | 4 | 1 | 2 | 1 | 0 | 0 | 8 |
| 倠 | France | 0 | 0 | 0 | 2 | 6 | 0 | 8 |
| （3） | Scotland | 6 | 2 | 1 | 1 | 1 | 0 | 11 |
| T | Italy | 3 | 1 | 3 | 1 | 3 | 1 | 12 |

## 3．2 ORIGIN OF TRIES／TRY LOCATIONS

Tries originate from various parts of the pitch．In 2012，almost one in three tries originated from within the scoring teams own half．This was a noticeable change from last year when the ratio was nearer to one in five．Of all the tries scored， $28 \%$ originated in the try scoring team＇s own half and $72 \%$ in the opposition half（ $39 \%$ originated within opp 22 m ），with $46 \%$ of tries were scored on the left hand side the posts（6N 2011 －45\％）．


The following table shows the origin of tries scored per team：

|  | Ireland <br> Wales | Own <br> Half | Halfway to 10 m | $\begin{gathered} 10 \mathrm{~m} \text { to } \\ 22 \mathrm{~m} \end{gathered}$ | 22 m to Goal line | Total Scored |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 4 | 0 | 3 | 6 | 13 |
|  |  | 2 | 2 | 3 | 3 | 10 |
| 倠 | France | 4 | 1 | 0 | 3 | 8 |
| 9 | England | 1 | 2 | 0 | 4 | 7 |
| （3） | Scotland | 1 | 1 | 1 | 1 | 4 |
| 0 | Italy | 1 | 1 | 1 | 1 | 4 |

The following table provides the converse to the above, i.e. it shows - for each team - the origin of all tries conceded.

|  | Wales <br> England | Opp Half | Halfway to 10 m | $\begin{gathered} 10 \mathrm{~m} \text { to } \\ 22 \mathrm{~m} \end{gathered}$ | $22 \mathrm{~m} \text { to }$ Goal line | Total Conceded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1 | 0 | 0 | 2 | 3 |
|  |  | 2 | 0 | 1 | 1 | 4 |
| 昜 | Ireland | 2 | 0 | 2 | 4 | 8 |
| $\underset{7 r}{T(7)}$ | France | 2 | 3 | 3 | 0 | 8 |
|  | Scotland | 1 | 2 | 2 | 6 | 11 |
| $\pm$ | Italy | 5 | 2 | 0 | 5 | 12 |

### 3.3 BUILD UP TO TRIES

Possession of the ball that leads to tries is obtained from a number of sources - and they are listed above. More often than not, other actions - second phase, kicks and passes - then take place before the try is scored.

## a) NUMBER OF RUCKS / MAULS IN BUILD UP TO TRIES

The first table below shows the number of rucks and mauls (second phase) that preceded each of the 46 tries scored in the 20126 Nations.

The table shows that $64 \%$ of tries were preceded by three or fewer second phases (2011-70\%)

|  | Number | \% | $\begin{gathered} \text { Cumulative } \\ \% \end{gathered}$ | $\begin{gathered} 6 \text { Nations } \\ 2011 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| 0 | 16 | 35\% | 35\% | 15 |
| 1-3 | 13 | 28\% | 63\% | 21 |
| 4-6 | 6 | 13\% | 76\% | 5 |
| 7-9 | 8 | 17\% | 93\% | 6 |
| 10+ | 3 | 7\% | 100\% | 4 |
| Total | 46 | 100\% |  | 51 |

b) NUMBER OF PASSES IN BUILD UP TO TRIES

The next table shows the number of passes that preceded each of the 46 tries scored in the 20126 Nations.

The table shows that $52 \%$ of tries were preceded by three or fewer passes (2011 - 45\%).This was not a figure that was seen consistently throughout all teams. In Scotland's case, all four of their tries contained more than three.

|  | Number | \% | Cumulative \% | $\begin{aligned} & 6 \text { Nations } \\ & 2011 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
| 0 pass | 7 | 15\% | 15\% | 7 |
| 1-3 | 17 | 37\% | 52\% | 16 |
| 4-6 | 6 | 13\% | 65\% | 12 |
| 7-9 | 8 | 18\% | 83\% | 4 |
| 10+ | 8 | 17\% | 100\% | 12 |
| Total | 46 | 100\% |  | 51 |

### 3.4 TIMING OF SCORES - TRIES

43\% of tries were scored in the first half (2011-41\%)
57\% of tries were scored in the second half (2011-59\%)
Ireland and Italy were the only teams to score most of their tries in the first half. The following table shows the number of tries scored and conceded per team per half.

|  | Ireland Wales | Tries scored $1^{\text {st }}$ half | Tries scored $2^{\text {nd }}$ half | Tries conceded $1^{\text {st }}$ half | Tries conceded $2^{\text {nd }}$ half |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 8 | 5 | 3 | 5 |
|  |  | 2 | 8 | 1 | 2 |
| 8 | France | 3 | 5 | 6 | 2 |
| \%ow | England | 2 | 5 | 2 | 2 |
| © | Scotland | 2 | 2 | 4 | 7 |
| 0 | Italy | 3 | 1 | 4 | 8 |

### 3.5 TIMING OF SCORES - PENALTY GOALS

There is a noticeable difference between the time when tries are scored and the time when penalties are kicked. Penalty goals showed a different profile:

55\% of penalties were kicked in the first half
$45 \%$ of penalties were kicked in the second half.
The following chart shows the number of penalties kicked and conceded by each team per half:


### 4.0 KICKS AT GOAL

It has been noted many times in earlier reports that the success rates of kicks at goal have improved noticeably since the Game went professional. In the decades since 1946, conversion rates reflected a running average of $52 / 53 \%$. These figures are now exceeded comfortably in all major rugby competitions. This level of success was maintained this year when $74 \%$ was achieved.


Overall conversion success rates were as follows:


The kicking success for penalty goals, conversions and drop kicks for each of the participating countries was as follows:

|  | England | Penalty Success | Conversion Success | Overall <br> Success \% | Drop goal Success |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 81\% | 86\% | 82\% | 0 of 2 |
|  | Ireland <br> Scotland | 80\% | 77\% | 79\% | 0 of 3 |
|  |  | 77\% | 75\% | 76\% | 0 of 0 |
|  | Wales | 71\% | 70\% | 71\% | 0 of 2 |
| 需 <br> 0 | France | 73\% | 63\% | 70\% | 1 of 7 |
|  | Italy | 47\% | 75\% | 53\% | 2 of 6 |



## 5．0 BALL IN PLAY \＆POSSESSION

In percentage terms， 20126 Nations matches produced an average ball in play time of $\mathbf{3 8} \mathbf{~ m i n ~} 12$ secs $\mathbf{-}$ or 48\％（2011＝49\％or 39 mins 10 secs）．

Six of the 15 matches had ball in play of $50 \%$ or more．

The highest ball in play in any match was $58 \%$ or 46 mins 02 secs（Wales v Scotland）－the lowest was 39\％or $\mathbf{3 1}$ mins $\mathbf{2 2}$ secs（England v Ireland）．

The following table shows the ball in play times for each match and how much possession was obtained by each team in the 15 matches．There are some noticeable differences．

| MATCH | BALL IN PLAY | WAL ＂Wign <br> 羔 |  |  | $\begin{aligned} & \text { IRE } \\ & \text { 盛 } \end{aligned}$ | $\begin{gathered} \text { SCO } \\ (8) \end{gathered}$ | $\begin{aligned} & \text { ITA } \\ & \underline{1} \\ & \hline \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| France v Italy | 48\％ |  |  | 17m 12s |  |  | 20m 48s |
| Scotland v England | 53\％ |  | 13m 39s |  |  | 28m 53s |  |
| Ireland v Wales | 51\％ | 23m 47s |  |  | 17m 10s |  |  |
| Italy v England | 49\％ |  | 20m 37s |  |  |  | 18m 39s |
| Wales v Scotland | 58\％ | 18m 00s |  |  |  | 28m 02s |  |
| Ireland v Italy | 44\％ |  |  |  | 20m 59s |  | 14m 25s |
| England v Wales | 53\％ | 21m 47s | 20m 37s |  |  |  |  |
| Scotland v France | 52\％ |  |  | 18m 28s |  | 23m 28s |  |
| France v Ireland | 45\％ |  |  | 21m 54s | 14m 05s |  |  |
| Wales v Italy | 45\％ | 22m 01s |  |  |  |  | 14m 06s |
| Ireland v Scotland | 41\％ |  |  |  | 15m 40s | 16m 54s |  |
| England v France | 45\％ |  | 14m 42s | 21m 41s |  |  |  |
| Italy v Scotland | 43\％ |  |  |  |  | 13m 10s | 21m 07s |
| Wales v France | 50\％ | 25m 28s |  | 14m 16s |  |  |  |
| England v Ireland | 39\％ |  | 18m 01s |  | 13m 21s |  |  |
|  |  | 111m 03s | 87m 36s | 93m 31s | 81m 15s | 110m 27s | 89m 05s |

The following table shows the average possession time obtained by each of the six teams．

As a formula for winning，having the most possession is no guarantee of success．In 2012，the winning team had the most possession in only eight matches of the 15 －the same as last year．

| $\xrightarrow{\text { NiN0 }}$ | Wales |
| :---: | :---: |
| （3） | Scotland |
| 管 | France |
| 0 | Italy |
|  | England |
| \％ | Ireland |


| $2012$ <br> 6 Nations | $\begin{gathered} 2011 \\ 6 \text { Nations } \end{gathered}$ |
| :---: | :---: |
| 22 min 12 secs | 19 min 10 secs |
| 22 min 05 secs | 20 min 07 secs |
| 18 min 42 secs | 19 min 10 secs |
| 17 min 49 secs | 20 min 07 secs |
| 17 min 31 secs | 21 min 11 secs |
| 16 min 15 secs | 17 min 47 secs |

### 6.0 ACTIVITY CYCLES

Activity cycles comprise ruck/mauls, passes, and kicks.
The following paragraphs show the number of rucks/mauls, passes and kicks made in the 20126 Nations compared with the 20116 Nations.

### 6.1 PASSING

Matches, on average, contained 268 passes (2011-297)

The most in any match was 380 (Wales $v$ Scotland), the fewest was 164 (England v Ireland). The most by any team in a match was 233, the fewest 61.

The attached table shows the average passes per match per team.

|  | $\mathbf{2 0 1 2}$ | 2011 |
| ---: | :---: | :---: |
|  | 6 Nations | 6 Nations |
| Rucks/Mauls | $\mathbf{1 8 1}$ | 194 |
| Passes | $\mathbf{2 6 8}$ | 297 |
| Kicks | $\mathbf{4 8}$ | 46 |
|  |  |  |

Again, there were noticeable differences between the six teams with Scotland making almost 60\%

|  | $2012$ <br> 6 Nations | $\begin{gathered} 2011 \\ 6 \text { Nations } \end{gathered}$ |
| :---: | :---: | :---: |
| Scotland | 175 | 164 |
| Wales | 154 | 127 |
| France | 126 | 142 |
| Italy | 125 | 148 |
| Ireland | 112 | 143 |
| England | 111 | 167 | more passes than England. Such differences are often accounted for however by one team having more possession than the other. When an adjustment is made to take account of this, then the above table can change. This next table shows the average number of passes per minute's possession, i.e. the rate of passing.

Rate of Passing per Team - i.e. passes per minute's possession


Under this method of calculation, it shows that while Scotland made some 60\% more passes than England, their passing rate was only 25\% higher.

The number of passes made by a team can also vary considerably from match to match.

The following table shows the average number of passes per country per match as shown above together with the most in a match and the fewest in a match:

|  | England <br> France <br> Ireland | Average <br> 6N 2012 | Average 6N 2011 | Most 6N 2012 | Most <br> 6N 2011 | $\begin{aligned} & \text { Least } \\ & \text { 6N } 2012 \end{aligned}$ | Least 6N 2011 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 111 | 167 | 156 | 231 | 61 | 128 |
|  |  | 126 | 142 | 174 | 158 | 80 | 113 |
|  |  | 112 | 143 | 159 | 182 | 75 | 110 |
|  | Wales <br> Scotland <br> Italy | 154 | 127 | 153 | 174 | 92 | 93 |
|  |  | 175 | 164 | 233 | 187 | 85 | 115 |
|  |  | 125 | 148 | 176 | 177 | 115 | 120 |

### 6.2 PLAYER PASSING

When the almost 4,000 passes made in the 20126 Nations were allocated into three groups (passes made by forwards, passes made by scrum half and passes made by backs), the results were as shown in the attached table:

What the attached table shows are the passes made by the three groups of players. It simply shows how active they were in passing the ball.


| 2012 | 2011 |
| :---: | :---: |
| 6 Nations | 6 Nations |
| $17 \%$ | $15 \%$ |
| $49 \%$ | $49 \%$ |
| $34 \%$ | $36 \%$ |
| $100 \%$ | $100 \%$ |

The next tables show what each rank of forwards of each team did with the ball when they were in possession of it．The first table shows the number of times each country＇s forwards had the ball in their hands and then notes the number of times they passed it．This is then expressed as a ratio so that if a team＇s forwards passed the ball 20 times having received it 100 times，the ratio would be expressed as one to five－i．e．one pass for every five possessions．Again，the table shows major differences between the countries．England＇s forwards were the least likely to pass the ball， Scotland＇s the most likely．

This difference between the forwards of each country is even more graphically illustrated when the forwards are broken down into the three groups－（a）front row，（b）second row and（c）back row．This time the relationship between passes and possession is expressed in percentage terms， so that if a group of forwards received the ball 20 times and passed it six times，it means they passed it on $30 \%$ of occasions．Both Scotland＇s second row and back row were the most likely units to pass the ball．
\％of times ball passed by Front Row
$\%$ of times ball passed by $2^{\text {nd }}$ row

|  |  | $2012$ <br> 6 Nations | $2011$ <br> 6 Nations |  |  | $2012$ <br> 6 Nations | $\begin{gathered} 2011 \\ 6 \text { Nations } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { NiN" } \\ & \text { 首 } \end{aligned}$ | Wales | 38\％ | 21\％ |  | Scotland | 31\％ | 40\％ |
| 嵒 | France | 29\％ | 22\％ |  | France | 21\％ | 21\％ |
|  | England | 22\％ | 21\％ | $\mathbb{T}$ | Italy | 21\％ | 15\％ |
| (3) | Scotland | 21\％ | 20\％ |  | Ireland | 18\％ | 26\％ |
| 常 | Ireland | 17\％ | 24\％ | $\begin{aligned} & w i \mu n \\ & \ddot{m} \\ & \ddot{m} \end{aligned}$ | Wales | 14\％ | 24\％ |
| 5 | Italy | 16\％ | 13\％ |  | England | 11\％ | 28\％ |

\％of times ball passed by Back Row

|  | Scotland | $2012$ <br> 6 Nations | $2011$ <br> 6 Nations |
| :---: | :---: | :---: | :---: |
|  |  | 42\％ | 38\％ |
|  | France | 38\％ | 34\％ |
|  | Ireland | 34\％ | 21\％ |
|  | Italy | 31\％ | 28\％ |
| 筍发 | England | 28\％ | 37\％ |
| $\underset{\substack{\text { NiTr } \\ \text { 号 }}}{ }$ | Wales | 27\％ | 23\％ |

Additional analysis of passes made by backs show noticeable differences between the passes made by the numbers 12 and 13 of each country. The following table illustrates these differences:

In each of the last two years, Wales centres have passed the ball the least.

|  | 2012 <br> 6 | 2011 <br> 6 Nations |
| :---: | :---: | :---: |
| Scotland | $\mathbf{6 7}$ | 39 |
| Ireland | $\mathbf{5 1}$ | 69 |
| France | $\mathbf{5 1}$ | 77 |
| England | $\mathbf{5 0}$ | 59 |
| Italy | 47 | 43 |
| Wales | $\mathbf{4 0}$ | 27 |
|  |  |  |



### 6.4 RUCKS/MAULS (2 ${ }^{\text {ND }}$ PHASE)

The average number per match was 181. (2011-193)

The most in any match was 239, the fewest was 125. The most by any team in a match was 154, the least, 53.

The table indicates the total number of rucks/mauls created by each team in the competition expressed as average per match.

However, the number of rucks and mauls made by one team may be constrained because it obtained only limited possession of the ball. In order to address this, an alternative calculation has been made which relates the number of rucks/mauls to the share of ball in play time won by each team. This is expressed in the number of rucks created for every minute's possession obtained by a team and shows, for example, that Ireland's rate of rucking exceeded that of the other teams.


| 2012 | 2011 |
| :---: | :---: |
| 6 Nations | 6 Nations |
| 5.0 | 4.9 |
| 4.9 | 5.0 |
| 4.9 | 4.8 |
| 4.8 | 5.4 |
| 4.5 | 4.7 |
| 4.4 | 4.8 |
| PAGE 22 of 28 |  |

### 6.5 BREAKDOWN RETENTION

At the breakdown, the team taking in the ball retained possession by either winning the ball or being awarded a penalty on $93 \%$ of occasions. The percentage success rate for each team was very similar and is shown in the attached table:

### 6.6 KICKING

The average number per match was 46 (2011-46)

| 2012 <br> 6 Nations | 2011 <br> 6 Nations |
| :---: | :---: |
| $\mathbf{9 5 \%}$ | $98 \%$ |
| $\mathbf{9 4 \%}$ | $95 \%$ |
| $\mathbf{9 3 \%}$ | $95 \%$ |
| $\mathbf{9 3 \%}$ | $95 \%$ |
| $\mathbf{9 2 \%}$ | $95 \%$ |
| $\mathbf{9 2 \%}$ | $94 \%$ |

The most open play kicks in a match was $\mathbf{7 0}$, the fewest $\mathbf{2 7}$. The most by a team was $\mathbf{3 7}$, the least
12.

The average number of kicks per team per match and the rate of kicks per team per minute's possession are shown in the table:

Average \& Rate of Kicking per Team

|  | $2012$ <br> 6 Nations | $2011$ <br> 6 Nations | $2012$ <br> 6 Nations | $2011$ <br> 6 Nations |
| :---: | :---: | :---: | :---: | :---: |
|  | Average | Average | Rate | Rate |
| En England | 28 | 20 | 1.6 | 1.1 |
|  | 26 | 27 | 1.2 | 1.4 |
| 7 France | 24 | 20 | 1.3 | 0.9 |
| 5 Italy | 24 | 16 | 1.4 | 0.9 |
| * Ireland | 22 | 26 | 1.4 | 1.4 |
| (3) Scotland | 19 | 26 | 0.8 | 1.3 |

### 6.7 PLAYER KICKING

About 75\% of all kicks are made by just three players - numbers 9,10 and 15 . There can be major differences however between the way that teams utilise their kickers. The following table shows the division of kicks between the three players in each of the six teams:

| 荓 | Wales <br> Italy | Kicks Scrum half | Kicks Fly Half | Kicks Full Back |
| :---: | :---: | :---: | :---: | :---: |
|  |  | 14\% | 66\% | 20\% |
| 5 |  | 28\% | 53\% | 19\% |
| - | France | 31\% | 51\% | 18\% |
| 8 \% | Scotland | 36\% | 45\% | 19\% |
| a | England | 34\% | 44\% | 22\% |
| 尔 | Ireland | 35\% | 44\% | 21\% |

### 6.8 ACTIVITY CYCLES - SUMMARY

A summary of previous tables is shown below. It shows the average number of rucks, passes, and kicks per match and the rate for each per minute possession.

Average per match and Rate per minute possession
Avers Passer

| $\xrightarrow{\text { Wiv. }}$ | Wales |
| :---: | :---: |
|  | England |
| 永 | France |
| 突 | Ireland |
| 5 | Italy |
| (3) | Scotland |


| Rucks/Mauls |  | Passes |  | Kicks |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Average | Rate | Average | Rate | Average | Rate |
| 109 | 4.9 | 154 | 6.9 | 26 | 1.2 |
| 74 | 4.4 | 111 | 6.3 | 28 | 1.6 |
| 85 | 4.5 | 126 | 6.7 | 24 | 1.3 |
| 81 | 5.0 | 112 | 6.9 | 22 | 1.4 |
| 86 | 4.8 | 125 | 7.0 | 24 | 1.4 |
| 108 | 4.9 | 175 | 7.9 | 19 | 0.8 |

### 7.0 RESTARTS

Of 50 m restarts, $\mathbf{2 8 \%}$ were not contestable kicks, $\mathbf{7 2 \%}$ were contestable kicks. This continued the trend of 2011 where the figures suggest that teams are deciding to try and regain possession at restarts more than in previous years.

When 50m restarts were contested, the kicking team regained possession on one in four occasions. Last year it was nearer to one in six.

Success rate and restart type varied between the six teams. The most effective team in regaining own contestable restarts and receiving opposition contestable restarts was Italy. Only two teams favoured kicking long - Wales and England - which resulted in only 43\% of their restarts being contestable. The table shows the success per team on own and opposition restarts and the type of restart kicked by each team.


## 8．0 LINEOUTS

The average number of lineouts per match was 23 （2011－24）

The most lineouts in a match was 30 －the least 17

|  | $\begin{gathered} 2012 \\ 6 N \end{gathered}$ | $\begin{gathered} 2011 \\ 6 \mathrm{~N} \end{gathered}$ | $\begin{gathered} 2010 \\ 6 \mathrm{~N} \end{gathered}$ | $\begin{gathered} 2009 \\ 6 \mathrm{~N} \end{gathered}$ | $\begin{gathered} 2008 \\ 6 \mathrm{~N} \end{gathered}$ | $\begin{gathered} 2007 \\ 6 \mathrm{~N} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Avg per match | 23 | 24 | 25 | 26 | 28 | 31 |
| \％Competed | 60\％ | 58\％ | 61\％ | 65\％ | 60\％ | 59\％ |
| Possession retained | 83\％ | 84\％ | 81\％ | 83\％ | 83\％ | 85\％ |

Italy were the most successful on both their own throw and opposition throw，winning twice as many steals as their opponents．

|  | Own Lineouts |  |  |  | Italy | Opp Lineouts |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Success | Opp <br> Steals | Not straight Knock－on／Pen／FK |  |  | Success | Own <br> Steals | Not straight Knock－on／Pen／FK |
| 52 Italy | 85\％ | 8 | 1 | 0 |  | 24\％ | 14 | 1 |
| 䁿 England | 84\％ | 6 | 3 | （3） | Scotland | 21\％ | 9 | 3 |
| Nin Wales | 83\％ | 11 | 1 | 永 | France | 18\％ | 8 | 3 |
| （3）Scotland | 83\％ | 7 | 3 | 尔 | Ireland | 14\％ | 7 | 1 |
| 7\％France | 81\％ | 10 | 0 | 笱 | England | 14\％ | 6 | 2 |
| ／＊Ireland | 78\％ | 6 | 3 |  | Wales | 11\％ | 4 | 1 |

## 9．0 SCRUMS

The average number of scrums per match was 14 （2011－12）．This amounts to an average of seven scrums per team per match．

The most scrums in a match was 22 －the least six．

|  | $\begin{gathered} 2012 \\ 6 \mathrm{~N} \end{gathered}$ | $\begin{gathered} 2011 \\ 6 \mathrm{~N} \end{gathered}$ | $\begin{gathered} 2010 \\ 6 \mathrm{~N} \end{gathered}$ | $\begin{gathered} 2009 \\ 6 N \end{gathered}$ | $\begin{gathered} 2008 \\ 6 \mathrm{~N} \end{gathered}$ | $\begin{gathered} 2007 \\ 6 \mathrm{~N} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Avg per match | 14 | 12 | 15 | 15 | 16 | 17 |
| Penalties／Free Kicks | 5.0 | 5.3 | 6.0 | 4.6 | 3.1 | 3.5 |
| Possession retained | 85\％ | 81\％ | 84\％ | 90\％ | 92\％ | 92\％ |

Scrum success on own feed and opposition feed are shown below．Wales was the most successful on both own put－ins and opposition put－ins．

| $\begin{aligned} & \text { Ning } \\ & \ddot{y} \end{aligned}$ | Wales | Own Scrums |  |  | Wales | Opp Scrums |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Success | Opp Tightheads |  |  | Success | Own Tightheads |
|  |  | 96\％ | 0 |  |  | 24\％ | 0 |
| 年 | France | 90\％ | 0 | 年 | France | 23\％ | 2 |
| （3） | Scotland | 89\％ | 1 | 策 | England | 15\％ | 3 |
| 筍 | England | 87\％ | 3 | 永 | Ireland | 13\％ | 1 |
| ＊ | Ireland | 78\％ | 1 | （3） | Scotland | 13\％ | 0 |
| 0 | Italy | 70\％ | 2 | 0 | Italy | 9\％ | 1 |

In total there were seven tight heads in 204 scrums（2011－7in 186 scrums）．

## 10．0 PENALTIES \＆FREE KICKS

In the 20126 Nations，the average number of penalties and free kicks awarded in a match was 21. （2011－21）

There was a wide spread between the matches．The most awarded in a single match was 27，the least 15．The most conceded by a team in a match was 17 （France），the least four（France）

The following table comprises the total penalties awarded to and conceded by each team． However，because the number of penalties can vary from match to match，a better measure is the proportion of penalties conceded by a team in all their matches compared with their opponents． This shows，for example，that in France＇s case，they were awarded almost 30\％more penalties than their opponents．

|  | France <br> Wales | Pen／FK <br> For | Pen／FK <br> Against | $\begin{gathered} \hline \text { \% Pen/FK } \\ \text { For } \\ \hline 56 \% \end{gathered}$ | $\begin{gathered} \text { \% Pen/FK } \\ \hline \text { Against } \\ \hline \mathbf{4 4 \%} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 53 |  |  |  |
|  |  | 61 | 55 | 53\％ | 47\％ |
| （3） | Scotland | 58 | 56 | 51\％ | 49\％ |
| m | England | 52 | 50 | 51\％ | 49\％ |
| 0 | Italy | 53 | 57 | 48\％ | 52\％ |
| 奖 | Ireland | 42 | 59 | 42\％ | 58\％ |

## 10．1 CATEGORIES OF OFFENCES PENALISED

The following table groups the penalties awarded into nine categories：

| \％of Offences Penalised |  |
| :---: | :---: |
|  | \％ |
| Ruck／Tackle | 51\％ |
| Scrum | 25\％ |
| Offside | 10\％ |
| Dangerous Tackle | 4\％ |
| Other | 3\％ |
| Obstruction | 5\％ |
| Lineout | 1\％ |
| Maul | 1\％ |
| Foul Play | ＜1 |

Of penalties awarded at the ruck， $55 \%$ were in favour of the team in possession， $45 \%$ were in favour of the defending team．

## 10．2 NORTHERN AND SOUTHERN HEMISPHERE REFEREES

Of the 15 matches， 11 were refereed by northern hemisphere referees and four by southern hemisphere referees．The following table shows the average number of penalties and free kicks awarded by the two groups．

| Northern Hemisphere | Southern Hemisphere |  |
| :---: | :---: | :---: |
|  | 20 | 26 |
|  |  |  |

## 11．0 CARDS

The following paragraphs examine the circumstances and effects of the issue of red and yellow cards during the 20126 Nations

There were no red cards issued during the 20126 Nations（2011－none）

There were $\mathbf{1 3}$ yellow cards issued during the Championship．（2011－10）．They were issued against the following teams：

| $31$ | Scotland | No．of Cards | Reasons |
| :---: | :---: | :---: | :---: |
|  |  | 5 | Obstruction $\times 2$ ， Ruck x 2，Offside x 1 |
| $\stackrel{\text { unn }}{\underline{n}}$ | Wales | 4 | Dangerous Tackle $\times 2$ ， Ruck x 2 |
| 0 | Italy | 2 | Maul Collapse $\times 1$ ， Ruck x 1 |
| 紫 | Ireland | 1 | Dangerous Tackle $\times 1$ |
| 筍易 | England | 1 | Deliberate Knock－on $\times 1$ |
| － | France | 0 | － |

Of the 15 matches, there were eight which contained at least one yellow card as shown in the following table, meaning seven (or 47\%) of all matches did not contain a single yellow card.

The most yellow cards in one match was three - (Italy v Scotland, Wales v Scotland)

| Match | Referee | No of cards |
| :---: | :---: | :---: |
| Italy v Scotland | Rolland | $\mathbf{3}$ |
| Wales v Scotland | Poite | $\mathbf{3}$ |
| Ireland v Wales | Barnes | $\mathbf{2}$ |
| England v France | Rolland | $\mathbf{1}$ |
| Ireland v Scotland | Pollock | $\mathbf{1}$ |
| Wales v Italy | Clancy | $\mathbf{1}$ |
| England v Wales | Walsh | $\mathbf{1}$ |
| France v Italy | Owens | $\mathbf{1}$ |

During the 13 sin bin periods, the team with 15 players received no points benefit on nine occasions. On only one occasion did the points scored in the sin bin period by the team with 15 players account for the final points margin between the two teams.

### 12.0 TMO

In the 20126 Nations, there were 12 references to the TMO (2011-8)
As a result of the 12 references, seven tries were awarded (2011-6 awarded)
The average length was 1 min 21 secs, with the shortest reference taking 40 secs and the longest taking 2 mins 50 secs.

