



**STATISTICAL ANALYSIS
AND MATCH REVIEW**

**IRB JUNIOR WORLD CHAMPIONSHIP
2013**

IRB GAME ANALYSIS



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
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IRB JUNIOR WORLD CHAMPIONSHIP 2013 COMMENTARY

The 2013 final was contested by two northern hemisphere teams for the first time in IRB Junior World Championship history after Wales and England defeated South Africa and New Zealand respectively in the semi-finals. In 2012, South Africa lost their opening match to Ireland and still won the tournament. This happened again in 2013 as, despite losing to South Africa in the pool stages, England defeated Wales in the final to win the JWC for the first time. This completed a successful season for England who also won the Under 20 Six Nations in 2013.

		P	W	L	
1 st		England	5	4	1
2 nd		Wales	5	4	1
3 rd		South Africa	5	4	1
4 th		New Zealand	5	3	2
5 th		France	5	3	2
6 th		Argentina	5	3	2
7 th		Australia	5	2	3
8 th		Ireland	5	2	3
9 th		Samoa	5	2	3
10 th		Scotland	5	2	3
11 th		Fiji	5	1	4
12 th		USA	5	0	5

Highlights of JWC 2013 included:

- For the first time in JWC history, New Zealand did not play in the final. They were the top seed after the pool stages but finished fourth after losing to England and South Africa.
- Ireland, who finished eighth overall, were one bonus point away from achieving the best runner-up position to reach a first semi-final, but lost out to England on point difference.
- Argentina beat Australia for the second successive tournament.
- Ireland beat Australia in the pool stages but Australia won when the teams met in the seventh place play-off. Similarly, Scotland beat Samoa in the pool stages but Samoa won when their meeting in the ninth place play-off.
- France lost two pool matches but still managed to finish fifth with wins against Ireland and Argentina in the play-offs.
- USA, playing on the JWC stage for the first time since 2008, lost every match, scoring only two tries and conceding an average of more than 10 tries per match.



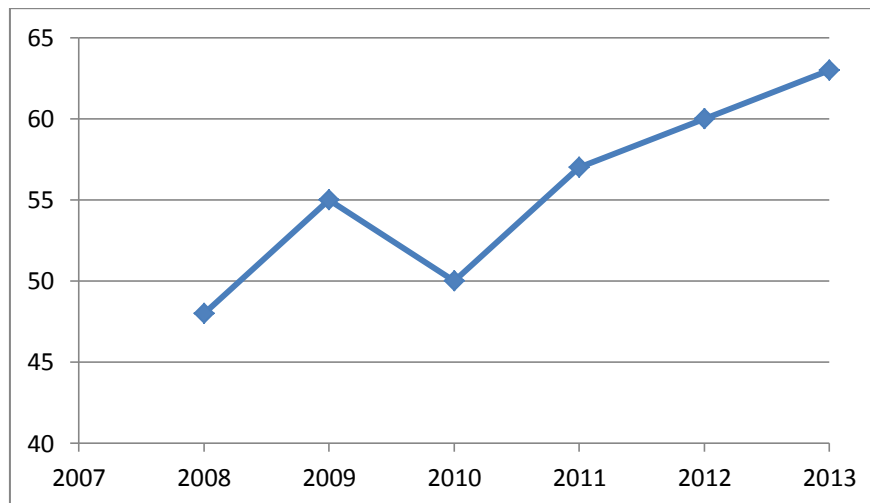
STATISTICAL ANALYSIS AND MATCH REVIEW

MARGINS

The table and chart below show that the scoring margins have continued to narrow at the Junior World Championship. In 2013, 63% of matches had a scoring margin within 20 points. The USA suffered a few heavy defeats and if their matches were not included then 76% of matches were within a 20-point margin.

YEAR	NO OF MATCHES with 20 points or less	MATCHES with 20 points or less
2008*	19	48%
2009*	22	55%
2010**	15	50%
2011**	17	57%
2012**	18	60%
2013**	19	63%

*16 team tournament **12 team tournament





SCRUMS

During JWC 2013, the following instructions were given to both teams and referees:

- Scrums must be square and stationary prior to feed
- Ball must be fed straight
- Referees must indicate when the scrum half should put the ball into the scrum

However, the results showed little change from previous tournaments. While collapses stabilised, resets increased and sanctions saw a marginal increase.

	COLLAPSES PER 100 SCRUMS	RESETS PER 100 SCRUMS	PK/FKS PER 100 SCRUMS	BALL OUT PER 100 SCRUMS
JWC 2013	24	23	34	66
JWC 2012	27	15	32	68
JWC 2011	23	18	24	76

A breakdown of the tournament round by round shows that while resets and sanctions declined throughout the tournament, collapses increased.













	COLLAPSES PER 100 SCRUMS	RESETS PER 100 SCRUMS	PK/FKS PER 100 SCRUMS	BALL OUT PER 100 SCRUMS
Round 1	17	26	34	66
Round 2	22	20	34	66
Round 3	24	23	29	71
Round 4	23	23	30	70
Round 5	27	18	26	74

Overall the ball came out of the scrum on 76% of occasions. However, there were differences between the teams. For certain teams, the benefit from scrums came not so much from possession, but from the penalties and free kicks they managed to obtain.



STATISTICAL ANALYSIS AND MATCH REVIEW

The table shows that the main feature of the Welsh, Irish and Argentinean scrums was the predominance of sanctions whereas that of the Samoa, Fiji, USA and New Zealand scrums was in ball possession.

OWN SCRUMS		
	BALL OUT	PEN/FK
 Samoa	89%	11%
 Fiji	88%	12%
 USA	88%	12%
 New Zealand	87%	13%
 France	84%	16%
 South Africa	84%	16%
 Australia	81%	19%
 Scotland	80%	20%
 England	72%	28%
 Argentina	55%	45%
 Wales	51%	49%
 Ireland	48%	52%



IRB JUNIOR WORLD CHAMPIONSHIP 2013 MATCH FACTS

SCORING

- The combined points scored by South Africa and England against USA was more than 200.
- There was at least one try in every match and the match with the least tries was Ireland v France.
- 67% of matches were won by the team scoring the most tries.
- South Africa scored the most tries while England conceded the least.
- Sixteen of the 30 matches had a margin of 10 points or less.
- The highest scoring margin was 109 points (England v USA).
- The overall try rate was one try every five minutes of ball in play.
- 59% of tries were scored by backs, 40% by forwards and 1% were penalty tries.
- 12% of Scotland tries were scored by their forwards which contrasted with Australia's forwards who scored 53% of their team's tries.
- 30% of tries originated from lineout possession and 27% of tries started from inside the scoring team's own half.
- 68% of tries were preceded by three or fewer phases and 49% contained three or fewer passes.
- 45% of tries were scored in the first half and 55% in the second. Wales conceded seven of their eight tries in the second half.
- France were the most successful at place kicks while Fiji were the least successful.
- Only four of 21 drop goal attempts were successful, with France and Wales both kicking two.

ACTIVITY

- The team with the least possession won 16 of the 30 matches.
- Ireland had the highest proportion of possession, obtaining more than their opponents in all five matches.
- New Zealand had the highest passing rate while Argentina had the lowest.
- The England v New Zealand semi-final had 350 passes.
- Fiji forwards were most likely to pass, Samoa forwards the least likely.
- France's front row, Fiji's second row and Fiji's back row were the most likely forwards to pass.



STATISTICAL ANALYSIS AND MATCH REVIEW

- Ireland, Australia and Samoa had the highest rucking rate while Wales had the lowest.
- Wales had the highest kicking rate while New Zealand had the lowest.
- The Wales v Scotland match had 100 kicks from hand. By contrast the New Zealand v Ireland match had just 14.

SET PIECE

- England were the most successful at regaining contestable restarts.
- USA were the least successful at regaining contestable restarts.
- The scrum success rate was 86%, there were 18 tightheads and two through 90 degree turnovers.
- Scotland had the most successful scrum, USA had the least.
- The lineout success rate was 79% while 43% of lineouts were contested.
- New Zealand had the most successful lineout while Fiji had the least.




DISCIPLINE





- South Africa were awarded the highest proportion of penalty kicks/free kicks in their matches and USA were awarded the least.
- 40% of penalty kicks/free kicks were at the tackle/ruck with 66% in favour of the team in possession.
- 21% of penalty kicks/free kicks were at the scrum with 69% of penalties/free kicks in favour of the team in possession.
- Argentina received the most yellow cards.
- Wales were the only team to not receive a single yellow card in five matches.



STATISTICAL ANALYSIS AND MATCH REVIEW

IRB JUNIOR WORLD CHAMPIONSHIP 2013 POOL STANDINGS

	P	W	D	L	PF	PA	TF	TA	BP	PTS
 South Africa	3	3	0	0	154	43	22	6	1	13
 England	3	2	0	1	163	37	23	3	2	10
 France	3	1	0	2	70	59	9	6	2	6
 USA	3	0	0	3	3	251	0	39	0	0

	P	W	D	L	PF	PA	TF	TA	BP	PTS
 New Zealand	3	3	0	0	104	42	14	4	2	14
 Ireland	3	2	0	1	91	49	10	6	2	10
 Australia	3	1	0	2	71	45	10	4	3	7
 Fiji	3	0	0	3	21	151	2	22	0	0

	P	W	D	L	PF	PA	TF	TA	BP	PTS
 Wales	3	3	0	0	93	44	9	4	1	13
 Argentina	3	2	0	1	92	54	9	4	2	10
 Scotland	3	1	0	2	70	103	9	11	2	6
 Samoa	3	0	0	3	52	106	6	14	2	2













P=Played W=Won D=Draw L=Lost PF=Points For PA=Points Against TF=Tries For
TA=Tries Against BP=Bonus Points PTS=Points



STATISTICAL ANALYSIS AND MATCH REVIEW

IRB JUNIOR WORLD CHAMPIONSHIP 2013 POOL RESULTS

POOL A

	France	6–30	England	
	South Africa	97–0	USA	
	South Africa	31–24	England	
	France	45–3	USA	
	England	109–0	USA	
	France	19–26	South Africa	

POOL B

	Ireland	19–15	Australia	
	New Zealand	59–6	Fiji	
	Ireland	46–3	Fiji	
	New Zealand	14–10	Australia	
	New Zealand	31–26	Ireland	
	Australia	46–12	Fiji	

POOL C

	Wales	42–3	Samoa	
	Argentina	44–13	Scotland	
	Argentina	28–16	Samoa	
	Wales	26–21	Scotland	
	Wales	25–20	Argentina	
	Scotland	36–33	Samoa	









STATISTICAL ANALYSIS AND MATCH REVIEW

IRB JUNIOR WORLD CHAMPIONSHIP 2013 PLAY-OFF RESULTS

PLAY-OFFS

	Argentina	22–15	Australia	
	Ireland	8–9	France	
	South Africa	17–18	Wales	
	New Zealand	21–33	England	
	Samoa	19–18	Fiji	
	Scotland	39–3	USA	

PLAY OFFS

	Wales	15–23	England	
	South Africa	41–34	New Zealand	
	Argentina	34–37	France	
	Australia	28–17	Ireland	
	Samoa	33–24	Scotland	
	Fiji	46–12	USA	



IRB JUNIOR WORLD CHAMPIONSHIP 2013 OVERALL SUMMARY PER MATCH

The core elements of the matches over the last four Championships are shown in the table below.

	JWC 2013 France	JWC 2012 South Africa	JWC 2011 Italy	JWC 2010 Argentina
SCORING				
Avg. Points	52	45	55	52
Matches with Points Margin of 20 or less	19 or 63%	18 or 60%	17 or 56%	14 or 47%
Avg. Tries	6.3	5.5	6.8	6.0
Avg. Penalty Goals	4.0	3.1	3.4	4.6
Conversion Success	62%	67%	73%	69%
Avg. Drop goals	1 every 8 matches	1 every 8 matches	1 every 10 matches	1 every 8 matches
ACTIVITY				
Ball in Play	41% or 32mins 53s	42% or 33mins 44s	39% or 31mins 22s	40% or 32mins 06s
Avg. Passes	233	233	244	218
Avg. Ruck/Mauls	158	143	133	138
Ruck/Maul success	93%	92%	93%	94%
Avg. Kicks	38	44	35	44
SET PIECE				
Avg. Lineouts	25	27	23	25
Lineout Success	79%	80%	81%	78%
Avg. Scrums	20	19	19	20
Scrum Success	86%	86%	84%	87%
DISCIPLINE				
Avg. Penalties/Free kicks	24	25	21	24
Total Yellow & Red cards	Yellow = 26 Red = 3	Yellow = 24 Red = 3	Yellow = 22 Red = 0	Yellow = 26 Red = 0















STATISTICAL ANALYSIS AND MATCH REVIEW

1.0 SCORING

There were **1,550** points scored in the 30 matches, giving an average of **52** points per match. The following table shows a breakdown of all points scored.

	TOTAL	AVG. PER GAME	POINTS	% OF POINTS SCORED
TRIES	189	6.3	945	61%
CONVERSIONS	115	3.8	230	15%
PENALTY GOALS	121	4.0	363	23%
DROP GOALS	4	0.1	12	1%

The total and average number of points scored and conceded by each per team are shown below.













	POINTS FOR		POINTS AGAINST	
	Total	Average	Total	Average
 England	219	44	73	15
 South Africa	212	42	95	19
 New Zealand	159	32	116	23
 Argentina	148	30	106	21
 Scotland	133	27	139	28
 Wales	126	25	84	17
 France	116	23	101	20
 Ireland	116	23	86	17
 Australia	114	23	84	17
 Samoa	104	21	148	30
 Fiji	85	17	182	36
 USA	18	4	336	67



STATISTICAL ANALYSIS AND MATCH REVIEW

1.1 TRIES, PENALTY GOALS & DROP GOALS

There was an average of 6.3 tries, 3.8 conversions, 4.0 penalty goals and 0.2 drop goals per match.

	TRIES SCORED	PENALTY GOALS KICKED	DROP GOALS KICKED		POINTS FROM TRIES	POINTS FROM KICKS	TRIES : PENALTY GOALS	
	RSA	30	10		RSA	71%	29%	1 : 0.3
	ENG	28	11		FJI	71%	29%	1 : 0.4
	NZL	21	12		NZL	66%	34%	1 : 0.6
	SCO	17	8		AUS	66%	34%	1 : 0.5
	ARG	15	17		ENG	64%	36%	1 : 0.4
	AUS	15	7		SCO	64%	36%	1 : 0.5
	WAL	13	13	2	SAM	58%	42%	1 : 0.8
	FJI	12	5		USA	56%	44%	1 : 1.0
	FRA	12	10	2	FRA	52%	48%	1 : 0.8
	IRE	12	16		IRE	52%	48%	1 : 1.3
	SAM	12	10		WAL	52%	48%	1 : 1.0
	USA	2	2		ARG	51%	49%	1 : 1.1

1.2 IMPACT OF THE TRIES & PENALTY GOAL ON MATCH RESULTS

The winning team scored the most tries in **20** or **67%** of matches.

In eight matches tries were equal, and in only two matches did the winning team scoring the fewest number of tries (Wales v Argentina and Ireland v Australia).

1.3 WINNING MARGINS

There were **16** matches with a margin of 10 points or fewer.

The winning margins fell into the following ranges.

POINTS DIFFERENCE	NO OF MATCHES	CUMULATIVE
Draw	0	0 drawn
1 – 5	10	33% with 5 points or less
6 – 10	6	53% with 10 points or less
11 – 20	3	63% with 20 points or less
21 – 30	1	66% with 30 points or less
31 – 40	5	83% with 40 points or less
40+	5	



























2.0 TRY SCORING

There were **189** tries scored. The overall try scoring rate for the tournament was one try every **five minutes** of possession.

2.1 RATE OF TRY SCORING & RATE OF TRY CONCEDED

The following table shows the rate of try scoring and the rate of try conceding. This is a measure of each team’s ability to convert possession into tries and each team’s ability to prevent opposition converting possession into tries.













		TRY SCORING RATE			TRY CONCEDED RATE
	South Africa	Every 2m 31s		Wales	Every 11m 46s
	England	Every 3m 04s		England	Every 11m 15s
	New Zealand	Every 4m 15s		Australia	Every 9m 36s
	Argentina	Every 5m 06s		Argentina	Every 9m 32s
	Fiji	Every 5m 20s		Ireland	Every 8m 05s
	Wales	Every 5m 23s		France	Every 7m 41s
	Scotland	Every 5m 45s		South Africa	Every 6m 13s
	Australia	Every 5m 47s		New Zealand	Every 5m 55s
	Samoa	Every 7m 03s		Scotland	Every 5m 09s
	France	Every 7m 43s		Samoa	Every 3m 43s
	Ireland	Every 8m 06s		Fiji	Every 3m 41s
	USA	Every 33m 28s		USA	Every 1m 55s



STATISTICAL ANALYSIS AND MATCH REVIEW

2.3 PLAYERS & TRIES

Of the **189** tries scored, **59%** were scored by backs, **40%** were scored by forwards and **1%** were penalty tries. The breakdown of the teams is shown below.

	TRIES BY BACKS	TRIES BY FORWARDS	PENALTY TRIES
 Scotland	88%	12%	
 Fiji	67%	33%	
 France	67%	33%	
 South Africa	63%	37%	
 Wales	62%	38%	
 Ireland	58%	42%	
 England	54%	46%	
 Argentina	53%	33%	13%
 New Zealand	52%	48%	
 Samoa	50%	50%	
 Australia	47%	53%	
 USA	0%	100%	















STATISTICAL ANALYSIS AND MATCH REVIEW

2.4 SOURCE & ORIGIN OF TRIES

Tries can originate from many different possession sources and from anywhere on the pitch.

		TRY SOURCE			TRY ORIGIN
Lineout		30%	Own half		27%
Scrum		23%	Halfway to 10m		11%
Turnover/handling error		17%	10m to 22m		27%
Penalty/free kick		14%	22m to goal line		35%
Opponents kick		11%			
Restart		5%			













The following table shows the possession source of tries scored and conceded by each team.

	LINEOUT		SCRUM		PEN & FK		KICK		TURNOVER		RESTART		TOTAL	
	OWN TRIES	OPP TRIES	OWN TRIES	OPP TRIES	OWN TRIES	OPP TRIES	OWN TRIES	OPP TRIES	OWN TRIES	OPP TRIES	OWN TRIES	OPP TRIES	OWN TRIES	OPP TRIES
 RSA	9	5	2	2	7	-	5	3	5	3	2	-	30	13
 ENG	6	3	9	1	4	-	3	1	5	2	1	-	28	7
 NZL	9	3	5	3	1	3	2	-	4	3	-	1	21	13
 SCO	7	4	4	3	2	3	2	3	1	2	1	-	17	15
 ARG	1	1	5	3	2	5	2	-	5	-	-	-	15	9
 AUS	5	-	4	2	2	-	-	3	3	2	1	1	15	8
 WAL	6	3	1	-	1	3	2	1	2	1	1	-	13	8
 FJI	1	11	3	7	1	1	1	-	5	5	1	2	12	26
 FRA	3	4	4	3	3	-	1	2	1	1	-	-	12	10
 IRE	4	3	4	2	-	1	-	-	2	2	2	1	12	9
 SAM	3	6	2	5	4	1	2	2	-	3	1	2	12	19
 USA	2	13	-	12	-	10	-	5	-	9	-	3	2	52



STATISTICAL ANALYSIS AND MATCH REVIEW

The following table shows the origin of tries scored and conceded per team.

		OWN HALF		HW – 10m		10m – 22m		22m - TRY		TOTAL	
		OWN TRIES	OPP TRIES	OWN TRIES	OPP TRIES	OWN TRIES	OPP TRIES	OWN TRIES	OPP TRIES	OWN TRIES	OPP TRIES
	RSA	6	6	5	1	7	3	12	3	30	13
	ENG	6	-	5	1	8	6	9	-	28	7
	NZL	7	3	1	2	6	3	7	5	21	13
	SCO	4	5	-	1	6	5	7	4	17	15
	ARG	6	2	2	-	1	4	6	3	15	9
	AUS	1	3	2	2	5	1	7	2	15	8
	WAL	5	2	1	-	5	3	2	3	13	8
	FJI	6	6	1	1	2	5	3	14	12	26
	FRA	3	2	1	3	4	2	4	3	12	10
	IRE	4	2	1	2	3	3	4	2	12	9
	SAM	3	5	1	-	4	7	4	7	12	19
	USA	-	15	-	7	-	9	2	21	2	52

2.5 NUMBER OF RUCKS / MAULS & PASSES IN BUILD UP TO TRIES

The following tables show the number of rucks/mauls and the number of passes that preceded each try.

It can be seen that **68%** of tries were preceded by three or fewer phases, and that **49%** of tries were preceded by three or fewer passes.

RUCKS/ MAULS	NUMBER	%	CUMULATIVE
0	60	32%	32%
1	26	14%	46%
2	25	13%	59%
3	17	9%	68%
4+	61	32%	100%

PASS	NUMBER	%	CUMULATIVE
0	36	36%	19%
1 - 3	57	57%	49%
4 - 6	42	42%	71%
7 - 9	23	23%	84%
10+	31	31%	100%















STATISTICAL ANALYSIS AND MATCH REVIEW

2.6 TIMING OF SCORES – TRIES & PENALTY GOALS













Of the **189** tries, **45%** were scored in the first half and **55%** in the second half.

The following table shows the number of tries scored and conceded per half by team.

	TRIES SCORED 1 st HALF	TRIES SCORED 2 nd HALF	TRIES CONCEDED 1 st HALF	TRIES CONCEDED 2 nd HALF
 South Africa	16	14	6	7
 England	12	16	5	2
 New Zealand	11	10	6	7
 Scotland	8	9	7	7
 Australia	8	7	4	4
 Argentina	5	8	5	4
 Wales	6	7	1	7
 Fiji	6	6	9	17
 France	4	8	5	5
 Ireland	4	8	4	5
 Samoa	5	7	9	9
 USA	-	2	24	28
TOTAL	86	103	86	103

Of the **121** penalty goals, **60%** were kicked in the first half and **40%** in the second half.

The following table shows the number of penalty goals kicked and conceded per half by team.

	TRIES CONCEDED 1 st HALF	TRIES CONCEDED 2 nd HALF	PGS CONCEDED 1 st HALF	PGS CONCEDED 2 nd HALF
 Argentina	12	5	6	8
 Ireland	7	9	9	2
 Wales	8	5	4	6
 New Zealand	9	3	7	4
 England	5	6	6	4
 France	4	6	9	4
 Samoa	8	2	5	4
 South Africa	5	5	2	2
 Scotland	6	2	6	7
 Australia	4	3	6	6
 Fiji	3	2	8	2
 USA	1	1	4	-
Total	72	49	72	49















3.0 KICKS AT GOAL

This table shows kick success rates.

	KICKING SUCCESS
Conversions	62%
Penalty goals	69%
Drop goals	19%

The following table shows the kicking success for penalty goals, conversions and drop goals for each team.

	PENALTY SUCCESS	CONVERSION SUCCESS	OVERALL SUCCESS %	DROP GOAL SUCCESS
 France	77%	83%	80%	2/3
 England	65%	85%	77%	0/0
 USA	100%	50%	75%	0/0
 Argentina	74%	73%	74%	0/2
 Wales	81%	62%	72%	2/6
 Scotland	62%	71%	67%	0/1
 Australia	64%	60%	62%	0/1
 New Zealand	86%	43%	60%	0/0
 Samoa	56%	58%	57%	0/5
 South Africa	63%	53%	57%	0/2
 Ireland	67%	33%	56%	0/1
 Fiji	63%	46%	53%	0/0



4.0 BALL IN PLAY & POSSESSION

The average ball in play time per match was **32mins 53secs (41%)**.

The highest ball in play in any match was **41mins 25secs** and the lowest was **25mins 5secs**.













This table shows the ball in play times and possession times for each match and team. The winning team won with less possession on **16 occasions (53%)**. This is highlighted in gold.

	WINNING TEAM	TIME	%	LOSING TEAM	TIME	%	TOTAL TIME
1	Scotland	26:58	65%	USA	14:27	35%	41:25
2	England	23:27	60%	Wales	15:29	40%	38:56
3	Wales	14:56	41%	Scotland	21:49	59%	36:45
4	England	15:09	42%	New Zealand	21:23	59%	36:32
5	Australia	18:03	49%	Ireland	18:26	51%	36:29
6	Fiji	17:09	48%	USA	18:57	53%	36:06
7	New Zealand	17:27	49%	Australia	17:54	51%	35:21
8	France	18:48	54%	Argentina	16:12	46%	35:00
9	New Zealand	15:45	45%	Ireland	19:07	55%	34:52
10	Ireland	21:18	61%	Fiji	13:22	39%	34:40
11	South Africa	15:54	46%	New Zealand	18:32	54%	34:26
12	France	12:38	37%	Ireland	21:42	63%	34:20
13	South Africa	12:48	38%	France	21:20	63%	34:08
14	Scotland	14:37	43%	Samoa	19:07	57%	33:44
15	France	20:35	62%	USA	12:47	38%	33:22
16	Argentina	13:10	40%	Scotland	20:11	60%	33:21
17	France	19:16	59%	England	13:16	41%	32:32
18	Argentina	15:17	47%	Samoa	17:00	53%	32:17
19	Samoa	19:26	60%	Fiji	12:45	40%	32:11
20	Australia	20:07	63%	Fiji	11:44	37%	31:51
21	Wales	12:02	39%	Argentina	19:13	62%	31:15
22	Wales	13:57	46%	South Africa	16:23	54%	30:20
23	Argentina	12:34	42%	Australia	17:45	59%	30:19
24	Samoa	15:41	52%	Scotland	14:16	48%	29:57
25	Ireland	16:33	56%	Australia	13:01	44%	29:34
26	South Africa	13:04	45%	England	15:43	55%	28:47
27	South Africa	17:07	60%	USA	11:14	40%	28:21
28	England	18:09	66%	USA	9:31	34%	27:40
29	Wales	13:39	51%	Samoa	13:19	49%	26:58
30	New Zealand	16:08	64%	Fiji	8:57	36%	25:05



STATISTICAL ANALYSIS AND MATCH REVIEW

The following table shows the average possession time per match obtained by each team and their opponents.

	OWN POSSESSION AVERAGE	OPP POSSESSION AVERAGE	OWN POSSESSION	OPP POSSESSION
 Ireland	19:25	14:34	57%	43%
 Scotland	19:34	15:28	56%	44%
 France	18:31	15:21	55%	45%
 Samoa	16:55	14:07	55%	46%
 New Zealand	17:51	15:24	54%	46%
 Australia	17:22	15:21	53%	47%
 England	17:09	15:45	52%	48%
 South Africa	15:03	16:09	48%	52%
 Argentina	15:17	17:09	47%	53%
 Wales	14:01	18:50	43%	57%
 Fiji	12:47	19:11	40%	60%
 USA	13:23	20:00	40%	60%



5.0 ACTIVITY CYCLES

Activity cycles are comprised of passes, ruck/mauls and kicks.













	AVERAGE PER MATCH	RATE (TIME OF POSSESSION)
Passes	233	1 every 9 seconds
Rucks/Mauls	158	1 every 13 seconds
Kicks	38	1 every 52 seconds

5.1 PASSING

The average number of passes per match was **233**. Overall there was a pass every **nine seconds**.

The highest number of passes in any match was **350** and the lowest was **136**.

The following table shows the average number of passes per match and the passing rate per team.

	AVERAGE PASSES	RATE (TIME OF POSSESSION)
 New Zealand	169	1 every 6 secs
 Ireland	164	1 every 7 secs
 England	140	1 every 7 secs
 France	142	1 every 8 secs
 Scotland	145	1 every 8 secs
 Fiji	93	1 every 8 secs
 South Africa	97	1 every 9 secs
 USA	83	1 every 10 secs
 Australia	103	1 every 10 secs
 Wales	83	1 every 10 secs
 Samoa	97	1 every 10 secs
 Argentina	78	1 every 12 secs















STATISTICAL ANALYSIS AND MATCH REVIEW

5.2 PLAYER PASSING

Passes were put into three groups – passes made by forwards, passes made by the scrum half and passes made by backs. The results are shown in the table below.

	%
Passes by forwards	17%
Passes by scrum half	48%
Passes by backs	35%

























The following table shows the passes made by the three groups of players by team.

	PASSES BY FORWARDS	PASSES BY SCRUM HALF	PASSES BY BACKS
 Fiji	27%	40%	33%
 Argentina	23%	49%	28%
 France	21%	42%	37%
 Scotland	20%	49%	31%
 England	17%	44%	39%
 Wales	16%	46%	37%
 New Zealand	15%	44%	41%
 Australia	15%	55%	30%
 USA	15%	50%	35%
 South Africa	11%	54%	35%
 Samoa	11%	56%	33%
 Ireland	10%	52%	39%







































STATISTICAL ANALYSIS AND MATCH REVIEW

The following tables show the rate of passing by forwards and backs (not including scrum half) per possession.

		FORWARDS PASS : POSSESSION RATIO			BACKS PASS : POSSESSION RATIO
	Fiji	1 in 2		New Zealand	1 in 2
	France	1 in 3		England	1 in 2
	Scotland	1 in 3		Ireland	1 in 2
	England	1 in 3		France	1 in 2
	New Zealand	1 in 3		Fiji	1 in 2
	Wales	1 in 3		USA	1 in 2
	Argentina	1 in 4		Australia	1 in 3
	USA	1 in 5		Scotland	1 in 2
	Ireland	1 in 5		Samoa	1 in 2
	South Africa	1 in 5		Wales	1 in 2
	Australia	1 in 6		South Africa	1 in 3
	Samoa	1 in 7		Argentina	1 in 3





































Overall, forwards passed the ball once in every four possessions. Passes made by forwards have been put into three groups – passes made by the front row, passes made by the second row and passes made by the back row. The rates shown give the frequency of passing by each group of forwards.

		FRONT ROW PASSING			SECOND ROW PASSING			BACK ROW PASSING
	France	1 in 3		Fiji	1 in 3		Fiji	1 in 2
	Fiji	1 in 3		Scotland	1 in 3		Scotland	1 in 3
	Scotland	1 in 3		Argentina	1 in 4		France	1 in 3
	England	1 in 4		England	1 in 4		New Zealand	1 in 3
	New Zealand	1 in 4		France	1 in 4		England	1 in 3
	Argentina	1 in 5		Ireland	1 in 5		Wales	1 in 3
	Wales	1 in 5		Wales	1 in 5		Argentina	1 in 3
	Ireland	1 in 6		USA	1 in 6		Australia	1 in 3
	USA	1 in 7		New Zealand	1 in 6		USA	1 in 3
	South Africa	1 in 9		South Africa	1 in 8		South Africa	1 in 4
	Australia	1 in 10		Australia	1 in 9		Samoa	1 in 5
	Samoa	1 in 11		Samoa	1 in 11		Ireland	1 in 5
	Overall	1 in 5		Overall	1 in 5		Overall	1 in 3



STATISTICAL ANALYSIS AND MATCH REVIEW

Overall, backs passed the ball once in every two possessions. Passes made by backs have been put into three groups – passes made by the fly half, passes made by centres and passes made by back three. The rates shown give the frequency of passing by each group of backs.

	FLY HALF PASSING		CENTRES PASSING		BACK THREE PASSING
 New Zealand	1 in 1.3	 England	1 in 2	 New Zealand	1 in 2
 England	1 in 1.4	 New Zealand	1 in 2	 England	1 in 3
 Fiji	1 in 1.4	 France	1 in 2	 France	1 in 3
 France	1 in 1.4	 Wales	1 in 2	 Argentina	1 in 3
 Ireland	1 in 1.4	 Fiji	1 in 2	 Ireland	1 in 3
 Scotland	1 in 1.5	 Ireland	1 in 2	 Wales	1 in 3
 USA	1 in 1.5	 Samoa	1 in 2	 Samoa	1 in 3
 Australia	1 in 1.6	 Australia	1 in 3	 South Africa	1 in 3
 Samoa	1 in 1.9	 South Africa	1 in 3	 USA	1 in 3
 South Africa	1 in 2.1	 USA	1 in 3	 Fiji	1 in 4
 Wales	1 in 2.1	 Scotland	1 in 3	 Australia	1 in 5
 Argentina	1 in 2.3	 Argentina	1 in 4	 Scotland	1 in 5
Overall	1 in 1.5	Overall	1 in 2	Overall	1 in 3















STATISTICAL ANALYSIS AND MATCH REVIEW

5.3 RUCKS/MAULS

The average number of rucks/mauls per match was **158**. Overall there was a ruck/maul every **13 seconds**.

The highest number of rucks/mauls in any match was **197** and the lowest was **112**.

The following table shows the average number of rucks/mauls per match and the rucking rate per team.

	RUCK/MAULS	RATE (TIME OF POSSESSION)
 Ireland	104	1 every 11 secs
 Australia	92	1 every 11 secs
 Samoa	90	1 every 11 secs
 New Zealand	91	1 every 12 secs
 South Africa	74	1 every 12 secs
 USA	65	1 every 12 secs
 Scotland	91	1 every 13 secs
 France	85	1 every 13 secs
 England	78	1 every 13 secs
 Fiji	56	1 every 14 secs
 Argentina	67	1 every 14 secs
 Wales	55	1 every 15 secs















STATISTICAL ANALYSIS AND MATCH REVIEW

5.4 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 following table shows the ruck/maul success rates when in possession and when opposition are in possession for each team.

		SUCCESS IN OWN RUCK/MAULS	SUCCESS IN OPP RUCK/MAULS
	South Africa	95%	8%
	Australia	94%	12%
	England	94%	10%
	Ireland	94%	9%
	Samoa	94%	11%
	France	93%	7%
	Scotland	93%	7%
	New Zealand	91%	6%
	Argentina	90%	4%
	Fiji	90%	8%
	USA	90%	5%
	Wales	89%	6%















STATISTICAL ANALYSIS AND MATCH REVIEW

5.5 KICKING

The average number of kicks per match was **38**. Overall there was a kick every **52 seconds**.













The highest number of kicks in any match was **100**, and the lowest was **12**.

The following table shows the average number of kicks per match and the kicking rate per team.

	KICKS	RATE (TIME OF POSSESSION)
 Wales	31	1 every 27 secs
 South Africa	23	1 every 40 secs
 Scotland	27	1 every 43 secs
 Argentina	18	1 every 52 secs
 Samoa	18	1 every 55 secs
 USA	14	1 every 56 secs
 Australia	19	1 every 56 secs
 Fiji	13	1 every 57 secs
 England	18	1 every 58 secs
 France	19	1 every 59 secs
 Ireland	18	1 every 65 secs
 New Zealand	11	1 every 94 secs

5.6 PLAYER KICKING

The following table shows the rate of kicks by the backs in each of the teams.

	SCRUM HALF KICK : POSSESSION RATIO	FLY HALF KICK : POSSESSION RATIO	CENTRE KICK : POSSESSION RATIO	FULL BACK KICK : POSSESSION RATIO
 Wales	1 in 6	1 in 3	1 in 25	1 in 3
 Argentina	1 in 14	1 in 3	1 in 6	1 in 7
 South Africa	1 in 14	1 in 3	1 in 15	1 in 6
 Samoa	1 in 24	1 in 3	1 in 14	1 in 5
 Australia	1 in 10	1 in 4	1 in 48	1 in 5
 England	1 in 12	1 in 5	1 in 143	1 in 8
 France	1 in 12	1 in 5	1 in 25	1 in 10
 Scotland	1 in 9	1 in 5	1 in 18	1 in 5
 Fiji	1 in 12	1 in 5	1 in 14	1 in 8
 USA	1 in 9	1 in 6	1 in 19	1 in 8
 Ireland	1 in 29	1 in 8	1 in 16	1 in 6
 New Zealand	1 in 25	1 in 19	1 in 30	1 in 11















6.0 SET PIECE

6.1 RESTARTS

Of restarts, **61%** were not contestable kicks while **39%** were contestable.

When restarts were contested, the kicking team regained possession on **1** in **3.4** occasions.

The following table shows the success per team on their own and opposition restarts and the type of restart kicked by each team.

		OWN RESTARTS	OPP RESTARTS	OWN RESTARTS	
		Success Rates	Success Rates	Contestable	Not Contestable
	England	1 in 1.8	1 in 1.3	33%	67%
	New Zealand	1 in 2.0	1 in 1.8	50%	50%
	Fiji	1 in 2.4	1 in 1.5	32%	68%
	Ireland	1 in 2.5	1 in 2.0	60%	40%
	South Africa	1 in 2.5	1 in 1.2	24%	76%
	Argentina	1 in 2.7	1 in 1.7	27%	73%
	Australia	1 in 2.7	1 in 1.6	32%	68%
	Wales	1 in 4.0	1 in 1.5	35%	65%
	France	1 in 5.0	1 in 1.3	56%	44%
	Samoa	1 in 6.0	1 in 1.5	36%	64%
	Scotland	1 in 7.0	1 in 1.0	21%	79%
	USA	1 in 9.7	1 in 1.5	49%	51%



























STATISTICAL ANALYSIS AND MATCH REVIEW

6.2 LINEOUTS

The average number of lineouts per match was **25**, the lineout success was **79%** and lineouts were contested on **43%** of occasions.

The highest number of lineouts in any match was **36**, the lowest was **12**.

These tables show the success per team on own and opposition lineouts.

		OWN LINEOUTS				OPP LINEOUTS	
		SUCCESS	CONTESTED			SUCCESS	CONTESTED
	New Zealand	87%	31%		New Zealand	46%	62%
	France	86%	45%		Ireland	29%	61%
	Ireland	86%	38%		Argentina	26%	62%
	Scotland	86%	35%		Samoa	23%	42%
	Argentina	85%	39%		Wales	21%	38%
	Wales	81%	31%		France	20%	59%
	Samoa	77%	59%		South Africa	19%	19%
	England	75%	30%		England	16%	28%
	South Africa	75%	42%		Australia	14%	31%
	Australia	74%	58%		Fiji	13%	25%
	USA	73%	49%		Scotland	13%	43%
	Fiji	57%	76%		USA	7%	38%



























STATISTICAL ANALYSIS AND MATCH REVIEW

6.3 SCRUMS

The average number of scrums per match was **20** and the scrum success was **86%**.

The highest number of scrums in any match was **31** and the lowest was **nine**.

The following tables show the success per team on own and opposition scrums.













		OWN SCRUMS					OPP SCRUMS		
		SUCCESS	BALL OUT	PEN/FK			SUCCESS	BALL OUT/ THRU 90	PEN/FK
	Scotland	95%	80%	20%		England	26%	50%	50%
	Samoa	94%	89%	11%		France	23%	9%	91%
	New Zealand	93%	87%	13%		New Zealand	20%	44%	56%
	Australia	89%	81%	19%		Australia	20%	33%	67%
	Argentina	87%	55%	45%		Ireland	18%	25%	75%
	Fiji	87%	88%	12%		South Africa	18%	14%	86%
	France	86%	84%	16%		Argentina	9%	25%	75%
	England	84%	72%	28%		Fiji	9%	0%	100%
	South Africa	84%	84%	16%		Samoa	8%	33%	67%
	Wales	81%	51%	49%		USA	6%	0%	100%
	Ireland	80%	48%	52%		Scotland	5%	50%	50%
	USA	75%	88%	12%		Wales	4%	100%	0%

In total there were **18** tightheads and **two** through 90 degree turnovers in **604** scrums.



7.0 PENALTIES & FREE KICKS

The average number of penalties and free kicks per match was **24**. The highest number of penalties/free kicks in any match was **32**, the lowest was **17**. The table below comprises the total penalties for and against, together with the proportion of penalties for and against by each team.

		PK/FK FOR	PK/FK AGAINST	PK/FK FOR	PK/FK AGAINST
	South Africa	65	38	63%	37%
	Ireland	80	54	60%	40%
	Scotland	64	45	59%	41%
	France	57	54	51%	49%
	England	62	61	50%	50%
	Australia	65	67	49%	51%
	Samoa	58	60	49%	51%
	New Zealand	62	67	48%	52%
	Wales	57	62	48%	52%
	Argentina	49	63	44%	56%
	Fiji	50	70	42%	58%
	USA	43	71	38%	62%

7.1 CATEGORIES OF OFFENCES PENALISED













The following table shows where penalties and free kicks were awarded.

	%
Tackle/Ruck	40%
Scrum	21%
Foul Play	13%
Offside	16%
Maul	3%
General	4%
Lineout	3%



STATISTICAL ANALYSIS AND MATCH REVIEW

The following table shows the proportion of penalties and free kicks against each team in each area.

	TACKLE/ RUCK	SCRUM	LINEOUT	MAUL	GENERAL PLAY	FOUL PLAY	OFFSIDE
 Ireland	52%	20%	2%		2%	9%	15%
 New Zealand	48%	18%		3%		13%	18%
 Scotland	48%	16%	4%		7%	18%	7%
 England	45%	25%	3%	2%	5%	8%	12%
 Wales	45%	18%	2%	5%	7%	13%	10%
 USA	43%	24%	4%	4%	3%	4%	18%
 Australia	42%	25%	3%	5%	3%	12%	10%
 France	40%	26%	4%	2%	2%	19%	7%
 Argentina	36%	16%	2%		8%	24%	14%
 Samoa	34%	23%	3%	8%	5%	10%	17%
 Fiji	27%	16%	3%	3%	4%	13%	34%
 South Africa	20%	32%	5%	3%	3%	13%	24%

Of penalties awarded at the ruck, **66%** were in favour of the team in possession and **34%** were in favour of the defending team. Of penalties/free kicks awarded at the scrum, **69%** were in favour of the team in possession and **31%** were in favour of the defending team.



8.0 CARDS

There were **three** red cards and **26** yellow cards.

The highest number of cards in any match was **five** and the least was **none**. There were **17** matches which contained at least one yellow card, meaning **13** or **43%** of all matches did not contain a yellow card.

The following table shows the number of cards per team and reasons.

	NO. OF CARDS	REASONS
 Argentina	5	5 x dangerous tackle
 Fiji	4 + 2	3 x dangerous tackle, 2 x foul play, 1 x ruck
 New Zealand	3	2 x ruck, 1 x dangerous tackle
 Samoa	3 + 1	3 x dangerous tackle, 1 x ruck
 Australia	2	1 x stamping, 1 x dangerous tackle
 England	2	1 x striking, 1 x foul play
 Ireland	2	1 x ruck, 1 x dangerous tackle
 USA	2	1 x not back 10m, 1 x dangerous tackle
 France	1	1 x stamping
 Scotland	1	1 x dangerous tackle
 South Africa	1	1 x striking
 Wales	0	-