RIO TINTO PLC
Form 6-K
October 19, 2010

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SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 20549
FORM 6-K
REPORT OF FOREIGN PRIVATE ISSUER
PURSUANT TO RULE 13A-16 OR 15D-16 OF
THE SECURITIES EXCHANGE ACT OF 1934
Dated 19 October 2010

Commission file number: 001-10533	**Commission file number: 000-20122**
Rio Tinto plc	**Rio Tinto Limited** **ABN 96 004 458 404**
(Translation of registrant s name into English)	(Translation of registrant s name into English)
2 Eastbourne Terrace **London, W2 6LG, United Kingdom**	**Level 33, 120 Collins Street** **Melbourne, Victoria 3000, Australia**
(Address of principal executive offices)	(Address of principal executive offices)

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THIS REPORT ON FORM 6-K SHALL BE DEEMED TO BE INCORPORATED BY REFERENCE IN THE REGISTRATION STATEMENT ON FORM F-3 (NO. 333-151839) OF RIO TINTO FINANCE (USA) LIMITED, RIO TINTO PLC AND RIO TINTO LIMITED AND THE REGISTRATION STATEMENTS ON FORM S-8 (NOS. 33-46865, 33-64380, 333-7328, 333-8270, 333-10156, 333-13988, 333-147914 AND 333-156093) OF RIO TINTO PLC AND RIO TINTO LIMITED, AND TO BE PART THEREOF FROM THE DATE ON WHICH THIS REPORT HAS BEEN DEEMED FILED, TO THE EXTENT NOT SUPERSEDED BY DOCUMENTS OR REPORTS SUBSEQUENTLY FILED OR FURNISHED.

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THIRD QUARTER 2010 OPERATIONS REVIEW
14 October 2010

Chief executive Tom Albanese said: We have delivered consistently strong operating performance in 2010 and the third quarter was no exception. We continue to run our operations at close to or above capacity rates, taking advantage of strong prices for our products. This quarter we achieved record production in iron ore, alumina and coking coal. Our investment in organic growth is gathering momentum. We approved more than $4 billion of capital projects during the third quarter, including investment towards the expansion of our Pilbara iron ore operations to 330 million tonnes per annum. This takes our total approvals this year to $5.5 billion and is consistent with our capex guidance of $13 billion over the 18 months to December 2011.

Rio Tinto s attributable iron ore production set a new quarterly record across its global operations, with Hamersley benefiting from the ramp up of new replacement tonnes at Brockman 4 and Western Turner Syncline. Attributable production during the first nine months was 10 per cent higher than the same period of 2009.

The Pilbara system operated in excess of its nameplate capacity during the quarter and matched the record third quarter 2009 production of 56.8 million tonnes (100 per cent basis).

Mined copper and gold were down 19 per cent and 33 per cent on the third quarter of 2009 primarily due to lower grades at Grasberg. Refined copper and gold were up six per cent and 46 per cent on the third quarter of 2009 reflecting greater efficiencies at the Kennecott Utah Copper smelter.

Bauxite production increased 17 per cent on the third quarter of 2009 in line with higher demand. Alumina production was a quarterly record, up six per cent on the third quarter of 2009. Aluminium production was down two per cent.

Australian hard coking coal production was a record 2.4 million tonnes, up 17 per cent on the third quarter of 2009 reflecting increased investment at the Queensland operations. Australian thermal coal production was down 14 per cent on the same period, mainly due to wet weather in the Hunter Valley.

The continued recovery in diamonds and minerals production reflected improving market fundamentals compared with the difficult conditions of 2009.

Rio Tinto approved capital projects totalling $4.2 billion during the third quarter, including $1.3 billion for the Pilbara iron ore expansions, $0.8 billion for the completion of the Argyle Diamonds underground mine and $1.6 billion for the development of the Hope Downs 4 iron ore mine in the Pilbara.

All currency figures in this report are US dollars, and comments refer to Rio Tinto s share of production, unless otherwise stated

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CORPORATE ACTIVITY

On 5 August 2010, Rio Tinto has received a binding offer from funds affiliated with Apollo Global Management, L.P. and the Fonds Stratégique d Investissement to buy a 61 per cent stake in Alcan Engineered Products excluding the Cable Division. The transaction follows the successful divestment last year of the Composites division of the Engineered Products business. The terms of the transaction are confidential.

On 13 September, Rio Tinto increased its ownership in Ivanhoe Mines Ltd. to 34.9 per cent, following the automatic conversion of the US$350 million convertible credit facility Rio Tinto made available to Ivanhoe Mines Ltd. in 2007 which was fully drawn down by mid-2008.

IRON ORE

Rio Tinto share of production (000 tonnes)

	Q3 10	vs Q3 09	vs Q2 10	9 mths 10	vs 9 mths 09
Hamersley	33,827	-3%	+14%	93,416	+5%
Hope Downs	3,554	+18%	-12%	11,659	+56%
Robe River	7,947	+2%	+4%	23,071	+11%
IOC (pellets and concentrate)	2,280	+72%	-0%	6,433	+13%

Markets

Third quarter sales volumes from the Pilbara region of Western Australia of 56 million tonnes (100 per cent basis) were consistent with the same quarter of 2009.

Pilbara expansion

During the third quarter, Rio Tinto announced investments totalling US$1.3 billion for the expansion to 230 million tonnes per annum and for early lead items in its drive to expand the Pilbara by an additional one hundred million tonnes per annum.

The Pilbara 330 expansion centres on increasing Rio Tinto s port at Cape Lambert from its current annual capacity of 80 million tonnes to 180 million tonnes by 2015. This will be achieved through construction of a new 1.8 kilometre jetty and four-berth wharf to run parallel to the existing jetty and four-berth wharf.

Rio Tinto s planned growth of its Pilbara iron ore operations to 330 Mt/a capacity consists of the following steps:

225 Mt/a by end of Q1 2011 Dampier port systems efficiencies (in implementation)

230 Mt/a by end of Q1 2012 Dampier port incremental gains (in implementation)

280 Mt/a by end of H2 2013 Cape Lambert port 1st 50 Mt/a increment (in feasibility study)

330 Mt/a by end of H2 2015 Cape Lambert port 2nd 50 Mt/a increment (pre-feasibility completed)

Pilbara operations

Pilbara production matched the record third quarter of 2009 as the mines continued to operate at above nameplate capacity. Hamersley production rebounded from the second quarter as the new Brockman 4 and Western Turner Syncline mines ramped up. Production from Robe River similarly benefited from rising production from Mesa A.

On 13 August, Rio Tinto announced that it would resist the application by Fortescue Metals to appeal the third party rail access decision by the Federal Court of Australia. Rio Tinto has also applied to the Federal Court to overturn the determination to declare access to the Robe line until 2018.

On 30 August Rio Tinto announced an investment of US$1.6 billion (Rio Tinto share $1.0 billion) to develop the Hope Downs 4 iron ore project in Western Australia and link with Rio Tinto s existing rail, power and port infrastructure in the Pilbara.

Iron Ore Company of Canada (IOC)

Strong third quarter production of pellets and concentrate at IOC reflected a recovery in demand, as well as a return to the normal proportions of concentrate and pellet sales in the overall sales mix. Third quarter production was 72 per cent higher than the same period of 2009 when a five week shutdown took place in response to weak market

conditions.

HIsmelt

The HIsmelt pig iron plant in Western Australia remains on a care and maintenance programme due to depressed global pig iron prices.

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2010 production guidance

Rio Tinto s global iron ore operations are expected to remain producing at close to nameplate capacity for the remainder of the year. 2010 production is expected to be approximately 179 million tonnes (attributable) and 234 million tonnes on a 100 per cent basis.

COPPER

Rio Tinto share of production

	Q3 10	vs Q3 09	vs Q2 10	9 mths 10	vs 9 mths 09
Kennecott Utah Copper					
Mined copper (000 tonnes)	65.2	-14%	+19%	181.3	-23%
Refined copper (000 tonnes)	74.8	+11%	+25%	204.5	+2%
Molybdenum (000 tonnes)	2.7	-21%	-4%	8.7	+11%
Mined gold (000 ozs)	105	-24%	-5%	372	-13%
Refined gold (000 ozs)	164	+46%	+13%	484	+46%
Escondida					
Mined copper (000 tonnes)	73.3	-6%	-10%	227.1	-2%
Refined copper (000 tonnes)	23.5	-6%	+2%	65.4	-12%
Grasberg JV					
Mined copper (000 tonnes)	2.2	-91%	-84%	29.4	-61%
Mined gold (000 ozs)	53	-55%	+103%	117	-52%
Northparkes					
Mined copper (000 tonnes)	8.1	+18%	+4%	23.2	+11%
Palabora					
Mined copper (000 tonnes)	10.9	-2%	+5%	31.9	-11%

Kennecott Utah Copper

Production of copper, gold and silver in concentrates were lower than the third quarter of 2009 due to continued lower ore grades. To take advantage of higher copper prices during the third quarter, ore was mined with a bias towards copper, adversely affecting molybdenum production.

Refined copper and gold production increased 11 per cent and 46 per cent, respectively, compared with the third quarter of 2009, due to efficiencies achieved following the smelter shutdown. Refined metal production is expected to decline during the fourth quarter due to lower concentrate availability.

Escondida

Mined copper production was positively impacted by higher concentrate production due to completion of the SAG Mill repairs in the prior year. Overall, mined copper was six per cent lower than the third quarter of 2009 due primarily to a decrease in head grade.

Refined copper production declined by six per cent compared with the same quarter of 2009 primarily due to a decrease in head grade.

Grasberg

Freeport is due to release its 100 per cent operating data for the third quarter on 21 October 2010. Rio Tinto s third quarter share of joint venture copper and gold was impacted by the anticipated lower ore grades and lower mill throughput; these factors reduced the Rio Tinto share of cumulative production under the metal strip agreement.

Northparkes

Mined copper production at Northparkes rose by 18 per cent compared with the same quarter of 2009 due to increased feed grade from the E48 block cave.

Palabora

Mined copper production at Palabora was consistent with previous quarters. At the end of the third quarter, a bridge on the rail line linking the mine and the ports of Richards Bay and Maputo was destroyed by a freight train. Early indications are that the bridge is likely to be out of service for six to eight weeks. Magnetite volumes are being trucked

out of Palabora whilst copper volumes are not currently affected.

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2010 production guidance

In 2010, Rio Tinto s share of mined and refined copper production is expected to be 660,000 tonnes and 380,000 tonnes, respectively.

ALUMINIUM

Rio Tinto share of production (000 tonnes)

	Q3 10	vs Q3 09	vs Q2 10	9 mths 10	vs 9 mths 09
Bauxite	8,696	+17%	+9%	24,887	+15%
Alumina	2,347	+6%	+5%	6,797	+4%
Aluminium	939	-2%	-1%	2,828	-1%

Bauxite

Third quarter bauxite production was 17 per cent higher than the same quarter of 2009 with increased production at Weipa and Sangaredi in line with rising third party demand.

Alumina

Third quarter alumina production set a new quarterly record at 2.3 million tonnes and included record production at Yarwun following efficiencies in work management and process improvements. Production was six per cent higher than the third quarter of 2009 when production cutbacks were made, primarily at the Vaudreuil refinery. Idled capacity at this plant was restarted in the fourth quarter of 2009.

Aluminium

Third quarter aluminium production was two per cent lower than the same quarter of 2009, driven by lower production at Laterrière following a power outage in July which forced the temporary closure of one of the plant s two potlines. The process of gradually restarting the 216 pots on the suspended production line began in early August 2010 and the smelter returned to full production at the end of September. The loss of metal production during the partial shutdown is estimated to be around 25,000 tonnes.

Other movements included higher production at NZAS following a transformer failure in 2008 which impacted 2009 and a gradual return to full capacity at the operating UK smelters, partly offset by the cessation of smelting activities at Anglesey, all reflecting continued market discipline.

Low snow and rain levels in the Saguenay region of Quebec during the first half of 2010 has led to reduced power generation. This resulted in the need to purchase additional power under a specially negotiated power block from the state utility over the course of the next 12 months. As previously guided, the impact on EBITDA in the second half of 2010 is expected to be approximately $100 million.

2010 production guidance

In 2010, Rio Tinto s share of alumina and aluminium production is expected to be 9.4 million tonnes and 3.8 million tonnes, respectively.

ENERGY

Australian coal

Rio Tinto share of production (000 tonnes)

	Q3 10	vs Q3 09	vs Q2 10	9 mths 10	vs 9 mths 09
Rio Tinto Coal Australia					
Hard coking coal	2,434	+17%	+2%	6,688	+25%
Other coal	5,161	-14%	-7%	15,554	-9%

Hard coking coal production from the Queensland coal operations set a new quarterly record increasing by 17 per cent compared with the same quarter of 2009. Hail Creek production benefited from the recent investment in two additional shovels and two new truck fleets.

Thermal and semi-soft coal production was 14 per cent lower than the corresponding quarter of 2009, attributable to wet weather in New South Wales reducing the time available for waste removal. In addition, a planned 12 day

maintenance shutdown of the Hunter Valley Operations wash plant took place. Blair Athol continued to wind down to 3 million tonnes per annum, partly offset by the ramp up of Clermont which produced 1.1 million tonnes in the quarter.

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2010 production guidance

In 2010, Rio Tinto s share of Australian hard coking, semi soft coking coal and thermal coal production is expected to be 9.5 million tonnes, 3.3 million tonnes and 19.1 million tonnes, respectively.

Uranium

Rio Tinto share of production (000 lbs)

	Q3 10	vs Q3 09	vs Q2 10	9 mths 10	vs 9 mths 09
Energy Resources of Australia	1,421	-34%	+19%	3,979	-36%
Rössing	1,354	-17%	-5%	4,122	-10%

Third quarter production at both ERA and Rössing continued to be impacted by lower average feed grade compared with the same quarter of 2009.

DIAMONDS & MINERALS

Rio Tinto share of production

	Q3 10	vs Q3 09	vs Q2 10	9 mths 10	vs 9 mths 09
Diamonds (000 carats)					
Argyle	2,425	+7%	-7%	7,561	+7%
Diavik	1,070	+115%	+11%	2,974	+23%
Minerals (000 tonnes)					
Borates	141	+13%	+3%	388	+23%
Titanium dioxide feedstock	335	+103%	-6%	1,019	+24%
Talc	259	+8%	-2%	763	+15%

Recovery from the production slowdown at Argyle in 2009 has been partially offset by processing of lower grade open pit ore in 2010.

Carat production at Diavik recovered from the third quarter of 2009 when a six week shutdown took place, partly offset by a higher proportion of ore sourced from the lower grade A418 pipe. Operations were scaled back in 2009 in response to the economic slowdown.

Minerals production continued to increase in line in response to the recovery of the global economy. Higher borates production reflected stronger demand from the Asia Pacific region.

Third quarter titanium dioxide feedstocks production also reflected improved market conditions and reflected an eight week summer shutdown at RTIT in 2009.

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Capital and major evaluation projects

Capital expenditure for the second half of 2010 through to the end of 2011 is anticipated to be approximately $13 billion, subject to stable investment conditions.

PROJECT	Approved capital cost (100%)	STATUS/MILESTONES
Approved in first half of 2010		
Molybdenum investment in phases 1 and 2 of Moly autoclave project (MAP) to enable lower-grade concentrate to be processed more efficiently than conventional roasters and allow improved recoveries	$340m	First approved in June 2008, the project was put on hold. Approval was given in April 2010 to restart the project. First production from phase 1 is anticipated in the fourth quarter of 2012 and full capacity of 30mlbs is scheduled for fourth quarter 2013. The phase 2 expansion to 60mlbs per annum is anticipated to be completed in the first quarter of 2015.
Iron ore expansion of Iron Ore Company of Canada s concentrate capacity (Rio Tinto 58.7%)	$401m	Initially approved in March 2008, the project recommenced in May 2010 to expand concentrate capacity by 4mtpa to 22mtpa by 2012 with options to expand further to 26mtpa.
Nickel construction of the Eagle nickel and copper mine in Michigan (USA).	$469m	Approved in June 2010, first production is expected in late 2013. The mine will produce an average of 17.3kt and 13.2kt per year of nickel and copper metal respectively over six years.
Approved / restarted in third quarter of 2010		
Iron ore preparation for the expansion of the Pilbara to 330Mtpa and beyond	$990m	Approved in July and August 2010, the funding will allow dredging contracts to be issued and long lead items to be ordered as part of early works on the expansion of the Cape Lambert port to 180mtpa capacity.
Iron ore development of Hope Downs 4 mine in the Pilbara (RT 50%)	$1.6bn	Approved in August 2010, first production is expected in 2013. The new mine will have a capacity of 15mtpa and a capital cost of $1.2 billion (RT share $0.6bn). RT will fully fund the $425 million for the rail, rolling stock and power infrastructure.
Diamonds Argyle Diamond mine underground project	$803m	Originally approved in 2005, project was slowed in 2009. The remaining $803 million to complete was approved in September 2010. The underground will be fully operational in 2013 with targeted production of 20 million carats a year. It will extend the mine life to at least 2019.

Iron ore	debottlenecking of Dampier port to expand the Pilbara capacity to 230 million tonnes per annum	$321m	Approved in September 2010, the project will add 10 million tonnes of annual capacity at the Dampier port by Q1 2012. No additional capex is required at the mines.
Aluminium	ISAL modernisation	$487m	Approved in September 2010, the project will increase production from 190kt to 230kt between April 2012 and July 2014. The total includes $140m in a leading-edge casting facility to produced value-added billet.

Sustaining capital expenditure for 2010, excluding equity accounted units, is estimated to be $2.5 billion (Rio Tinto funded).

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EXPLORATION AND EVALUATION

Pre-tax and pre-divestment expenditure on exploration and evaluation charged to the profit and loss account in the first nine months of 2010 was $371 million compared with $356 million in same period of 2009. During the first nine months of 2010 the Group realised $71 million (pre-tax) from the divestment of central exploration properties, compared with $68 million in the same period of 2009.

Exploration highlights

Order of Magnitude work continued at the Amargosa bauxite project in Brazil. The project is on track to be handed over to Rio Tinto Alcan by the end of 2011.

Initial test flights of the VK1 airborne gravity gradiometer were successfully completed in Western Australia. Optimisation of the instrument is now underway in preparation for production flying. This is a step-change technology with exploration applications in a number of different commodities.

A summary of activity for the period is as follows:

Product Group	**Advanced projects**	**Greenfield programmes**
Aluminium	Amargosa, Brazil	Australia, Brazil, Guyana, Laos
Copper	Copper: Bingham Orbit, US. Nickel: Tamarack, US	Copper: Chile, Kazakhstan, Mongolia, Peru, Russia, US Nickel: Canada, South Africa, US
Diamonds & Minerals		Diamonds: Canada, Democratic Republic of Congo, India, US
Energy	Coal: Bowen Basin, Australia ; Altai Nuurs, Mongolia Uranium: Rössing, Namibia	Uranium: Australia, Jordan
Iron Ore	Pilbara, Australia	Brazil, Canada, Democratic Republic of Congo

Mine-lease exploration continued at a number of Rio Tinto businesses including Kennecott Utah Copper, Eagle, Northparkes, Energy Resources of Australia, Rössing, Diavik and Pilbara Iron.

Pre-feasibility or feasibility work progressed on a number of projects including Resolution (copper/molybdenum, US), La Granja (copper, Peru), Bunder (diamonds, India), Simandou (iron ore, Guinea) and several Pilbara iron ore deposits.

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Rio Tinto production summary

RIO TINTO SHARE OF PRODUCTION

		Quarter			9 Months		% Change		
		2009 Q3	2010 Q2	2010 Q3	2009 9 MTHS	2010 9 MTHS	Q3 10 vs Q3 09	Q3 10 vs Q2 10	9 MTHS 10 vs 9 MTHS 09
Principal Commodities									
Alumina	('000 t)	2.208	2,240	2,347	6,533	6,797	6%	5%	4%
Aluminium	('000 t)	956	952	939	2,846	2,828	-2%	-1%	-1%
Bauxite	('000 t)	7,443	7,945	8,696	21,625	24,887	17%	9%	15%
Borates	('000 t)	124	136	141	315	388	13%	3%	23%
Coal hard coking coal	('000 t)	2,077	2,395	2,434	5,348	6,688	17%	2%	25%
Coal other Australian	('000 t)	6,031	5,530	5,161	17,081	15,554	-14%	-7%	-9%
Coal US	('000 t)	*23,327*	11,143	11,848	*65,888*	**33,057**	-49%	6%	-50%
Copper mined	('000 t)	*197.2*	167.9	159.7	*601.4*	**492.9**	-19%	-5%	-18%
Copper refined	('000 t)	100.6	90.6	106.7	306.9	293.3	6%	18%	-4%
Diamonds	('000 cts)	2,787	3,610	3,536	9,575	10,643	27%	-2%	11%
Iron ore	('000 t)	*46,977*	43,610	47,608	*122,810*	**134,579**	1%	9%	10%
Titanium dioxide feedstock	('000 t)	165	355	335	822	1,019	103%	-6%	24%
Uranium	('000 lbs)	3,778	2,628	2,776	10,780	8,101	-27%	6%	-25%
Other Metals & Minerals									
Gold mined	('000 ozs)	278	169	187	737	581	-33%	11%	-21%
Gold refined	('000 ozs)	112	146	164	332	484	46%	13%	46%
Molybdenum	('000 t)	3.4	2.8	2.7	7.9	8.7	-21%	-4%	11%
Salt	('000 t)	1,731	1,459	1,115	4,657	3,761	-36%	-24%	-19%
Silver mined	('000 ozs)	2,122	1,634	1,595	6,193	5,013	-25%	-2%	-19%
Silver refined	('000 ozs)	886	1,112	1,207	2,902	3,638	36%	9%	25%
Talc	('000 t)	*240*	264	259	*666*	**763**	8%	-2%	15%

Throughout this report, figures in italics indicate adjustments made since the figure was previously quoted on the equivalent page. Production figures are sometimes more precise than the rounded numbers shown, hence small differences may result between the total of the quarter figures and the nine month figures.

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Rio Tinto share of production

	Rio Tinto interest	3Q 2009	4Q 2009	1Q 2010	2Q 2010	**3Q 2010**	9 MTHS 2009	**9 MTHS 2010**
ALUMINA								
Production (000 tonnes)								
Gardanne (a)	100%							
Gove	100%	641	656	595	615	**642**	1,863	**1,852**
Jonquière (Vaudreuil)	100%	261	288	316	309	**340**	836	**966**
Queensland Alumina	80%	803	813	762	790	**765**	2,354	**2,317**
São Luis (Alumar)	10%	37	53	59	51	**68**	112	**177**
Yarwun	100%	345	341	336	318	**364**	1,005	**1,018**
Specialty alumina plants	100%	121	129	143	157	**168**	363	**468**
Rio Tinto total alumina production		2,208	2,282	2,211	2,240	**2,347**	6,533	**6,797**
ALUMINIUM								
Production (000 tonnes)								
Australia Bell Bay	100%	44	44	43	44	**45**	133	**132**
Australia Boyne Island	59%	84	84	82	83	**84**	247	**248**
Australia Tomago	52%	69	68	67	68	**69**	204	**203**
Cameroon Alucam (Edéa)	47%	9	10	8	6	**10**	24	**24**
Canada six wholly owned (b)	100%	343	345	337	339	**315**	1,045	**991**
Canada Alouette (Sept-Îles)	40%	58	58	57	57	**56**	172	**170**
Canada Bécancour	25%	26	27	26	27	**26**	78	**78**
France two wholly owned	100%	89	90	88	89	**89**	255	**267**
Iceland ISAL (Reykjavik)	100%	48	48	47	47	**48**	141	**142**
New Zealand Tiwai Point	79%	57	64	65	68	**70**	151	**203**
Norway SORAL (Husnes)	50%	11	11	11	11	**11**	38	**33**
Oman Sohar	20%	18	19	18	18	**19**	52	**55**
UK two wholly owned	100%	36	40	41	47	**49**	107	**137**
UK Anglesey (c)	51%	18					54	
USA Sebree	100%	48	49	48	49	**48**	144	**146**

Rio Tinto total aluminium production		956	957	937	952	**939**	2,846	**2,828**
BAUXITE								
Production (000 tonnes) (d)								
Awaso (e)	0%	22	47	34			305	**34**
Gove	100%	1,822	1,996	1,849	1,799	**1,771**	5,188	**5,419**
Porto Trombetas	12%	480	521	457	487	**548**	1,356	**1,492**
Sangaredi	(f)	1,171	1,565	1,356	1,392	**1,415**	3,482	**4,163**
Weipa	100%	3,949	4,942	4,550	4,266	**4,962**	11,293	**13,778**
Rio Tinto total bauxite production		7,443	9,072	8,246	7,945	**8,696**	21,625	**24,887**

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	Rio Tinto interest	3Q 2009	4Q 2009	1Q 2010	2Q 2010	**3Q 2010**	9 MTHS 2009	**9 MTHS 2010**
BORATES								
Production (000 tonnes B_2O_3 content)								
Rio Tinto Minerals borates	100%	124	109	111	136	**141**	315	**388**
COAL HARD COKING								
Rio Tinto Coal Australia (000 tonnes)								
Hail Creek Coal	82%	1,496	1,513	1,006	1,468	**1,709**	3,660	**4,182**
Kestrel Coal	80%	581	607	852	927	**726**	1,688	**2,505**
Rio Tinto total hard coking coal production		2,077	2,119	1,858	2,395	**2,434**	5,348	**6,688**
COAL OTHER (g)								
Rio Tinto Coal Australia (000 tonnes)								
Bengalla	30%	445	434	372	447	**337**	1,221	**1,156**
Blair Athol Coal	71%	2,142	1,858	1,525	1,569	**1,260**	6,210	**4,354**
Clermont (h)	50%				265	**560**		**825**
Hunter Valley Operations	76%	2,085	2,305	1,955	1,961	**1,932**	6,199	**5,848**
Kestrel Coal	80%	111	163	143	182	**141**	516	**466**
Mount Thorley Operations	61%	583	711	*299*	499	**374**	1,313	**1,172**
Warkworth	42%	665	549	569	607	**557**	1,622	**1,733**
Total Australian other coal		6,031	6,022	*4,863*	5,530	**5,161**	17,081	**15,554**
US Coal (000 tonnes)								
Antelope (i)	48%	8,057	5,898	3,708	3,907	**4,155**	23,133	**11,767**
Colowyo	100%	845	717	582	506	**684**	2,497	**1,772**
Cordero Rojo (i)	48%	9,586	7,289	3,906	4,389	**4,535**	26,071	**12,827**

Decker (i)	24%	588	387	103	180	**171**	*1,630*	**454**
Spring Creek (i)	48%	4,251	2,803	1,774	2,161	**2,303**	12,557	**6,236**
Total US coal		23,327	17,095	10,073	11,143	**11,848**	*65,888*	**33,057**
Rio Tinto total other coal production		29,358	23,117	14,936	16,673	**17,009**	*82,969*	**48,611**

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	Rio Tinto interest	3Q 2009	4Q 2009	1Q 2010	2Q 2010	**3Q 2010**	9 MTHS 2009	**9 MTHS 2010**
COPPER								
Mine production (000 tonnes) (d)								
Bingham Canyon	100%	75.8	66.8	61.3	54.8	**65.2**	236.7	**181.3**
Escondida	30%	78.2	85.9	72.7	81.0	**73.3**	232.5	**227.1**
Grasberg Joint Venture (j)	40%	25.2	32.5	13.4	13.8	**2.2**	75.2	**29.4**
Northparkes	80%	6.9	6.5	7.3	7.8	**8.1**	*20.9*	**23.2**
Palabora	58%	11.1	11.6	10.6	10.4	**10.9**	36.0	**31.9**
Rio Tinto total mine production		197.2	203.3	165.3	167.9	**159.7**	*601.4*	**492.9**
Refined production (000 tonnes)								
Escondida	30%	25.0	24.0	18.9	23.1	**23.5**	74.2	**65.4**
Kennecott Utah Copper	100%	67.6	72.9	70.1	59.6	**74.8**	201.3	**204.5**
Palabora	58%	8.0	8.7	6.9	7.9	**8.5**	31.3	**23.3**
Rio Tinto total refined production		100.6	105.5	95.9	90.6	**106.7**	306.9	**293.3**
DIAMONDS								
Production (000 carats)								
Argyle	100%	2,274	3,504	2,531	2,605	**2,425**	7,086	**7,561**
Diavik	60%	497	918	938	967	**1,070**	2,421	**2,974**
Murowa	78%	17	29	29	38	**42**	68	**108**
Rio Tinto total diamond production		2,787	4,451	3,497	3,610	**3,536**	9,575	**10,643**
GOLD								
Mine production (000 ounces) (d)								
Barneys Canyon	100%	0	0	1	0	**0**	2	**2**
Bingham Canyon	100%	138	158	157	109	**104**	424	**370**
Escondida	30%	9	13	12	13	**14**	30	**39**
Grasberg Joint Venture (j)	40%	118	187	38	26	**53**	242	**117**
Northparkes	80%	7	9	11	14	**14**	19	**39**
Rawhide (k)	0%	5	5	4	5		14	**9**

Others		2	1	2	2	**2**	6	**5**
Rio Tinto total mine production		278	374	225	169	**187**	737	**581**
Refined production (000 ounces)								
Kennecott Utah Copper	100%	112	147	174	146	**164**	332	**484**

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	Rio Tinto interest	3Q 2009	4Q 2009	1Q 2010	2Q 2010	**3Q 2010**	9 MTHS 2009	**9 MTHS 2010**
IRON ORE & IRON								
Production (000 tonnes) (d)								
Hamersley six wholly owned mines	100%	30,353	30,050	25,510	25,712	**30,334**	76,758	**81,555**
Hamersley Channar	60%	1,851	1,517	2,006	1,534	**1,312**	5,108	**4,852**
Hamersley Eastern Range	(m)	2,636	2,349	2,473	2,354	**2,182**	6,969	**7,008**
Hope Downs	50%	3,019	2,843	4,054	4,052	**3,554**	7,474	**11,659**
Iron Ore Company of Canada	59%	1,329	2,432	1,870	2,284	**2,280**	5,698	**6,433**
Robe River	53%	7,789	8,037	7,448	7,675	**7,947**	20,804	**23,071**
Rio Tinto total mine production		46,977	47,228	43,361	43,610	**47,608**	*122,810*	**134,579**
Pig iron production (000 tonnes)								
HIsmelt® (l)	60%							
MOLYBDENUM								
Mine production (000 tonnes) (d)								
Bingham Canyon	100%	3.4	3.4	3.2	2.8	**2.7**	7.9	**8.7**
SALT								
Production (000 tonnes)								
Dampier Salt	68%	1,731	1,192	1,187	1,459	**1,115**	4,657	**3,761**
SILVER								
Mine production (000 ounces) (d)								
Bingham Canyon	100%	1,189	1,187	1,146	870	**845**	3,684	**2,861**
Escondida	30%	316	492	471	436	**469**	1,135	**1,377**
Grasberg Joint Venture (j)	40%	460	557	16	147	**159**	917	**322**
Others		158	138	151	181	**121**	458	**454**
Rio Tinto total mine production		2,122	2,375	1,784	1,634	**1,595**	6,193	**5,013**

Refined production (000 ounces)								
Kennecott Utah Copper	100%	886	1,148	1,320	1,112	**1,207**	2,902	**3,638**
TALC								
Production (000 tonnes)								
Rio Tinto Minerals talc	100%	240	222	240	264	**259**	*666*	**763**
TITANIUM DIOXIDE FEEDSTOCK								
Production (000 tonnes)								
Rio Tinto Iron & Titanium	100%	165	325	329	355	**335**	822	**1,019**

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	Rio Tinto interest	3Q 2009	4Q 2009	1Q 2010	2Q 2010	**3Q 2010**	9 MTHS 2009	**9 MTHS 2010**
URANIUM								
Production (000 lbs U_3O_8)								
Energy Resources of Australia	68%	2,138	1,663	1,361	1,196	**1,421**	6,202	**3,979**
Rössing	69%	1,640	1,697	1,336	1,432	**1,354**	4,578	**4,122**
Rio Tinto total uranium production		3,778	3,360	2,697	2,628	**2,776**	10,780	**8,101**

PRODUCTION DATA NOTES

(a) Production of smelter grade alumina at Gardanne ceased at the end of 2008. Production continues from the Gardanne specialty alumina plant.

(b) Includes data for the Beauharnois smelter which ceased smelting operations in the second quarter of 2009.

(c) The Anglesey smelter ceased smelting operations at the end of the third quarter of 2009.

(d) Mine production figures for metals refer to the total quantity of metal produced in concentrates, leach liquor or doré bullion irrespective of whether these products are then

refined onsite, except for the data for bauxite and iron ore which represent production of marketable quantities of ore plus pellets.

(e) Rio Tinto Alcan had an 80% interest in the Awaso mine but purchased the additional 20% of production. Rio Tinto Alcan sold its interest in Ghana Bauxite Company, owner of the Awaso mine, with an effective date of 1 February 2010. Production data are shown up to that date.

(f) Rio Tinto has a 22.95% shareholding in the Sangaredi mine but receives 45.0% of production under the partnership agreement.

(g) Coal other includes thermal coal and semi-soft coking coal.

(h) Production commenced at Clermont in the second quarter of 2010.

(i) As a result of the initial public offering of Cloud Peak Energy Inc. on 20 November 2009,

Rio Tinto now holds a 48.3% interest in the Antelope, Cordero Rojo and Spring Creek mines and a 24.1% interest in the Decker mine. These interests were formerly reported under Rio Tinto Energy America but are now managed by Cloud Peak Energy.

(j) Through a joint venture agreement with Freeport-McMoRan Copper & Gold (FCX), Rio Tinto is entitled to 40% of additional material mined as a consequence of expansions and developments of the Grasberg facilities since 1998. Rio Tinto s share of production reflects actual production for the periods shown.

(k) Rio Tinto sold its 100% interest in the Rawhide mine with an effective date of 25 June 2010. Production data are shown up to that date.

(l) In March 2009, Rio Tinto announced that HIsmelt would be placed on an extended care and maintenance programme.

(m)

Rio Tinto s share of production includes 100% of the production from the Eastern Range mine. Under the terms of the joint venture agreement, Hamersley Iron manages the operation and is obliged to purchase all mine production from the joint venture.

The Rio Tinto percentage interest shown above is at 30 September 2010.
Where Rio Tinto s beneficial interest in an operation has changed, as footnoted above, the share of production has been calculated using the weighted average interest over the relevant periods. Rio Tinto s interests in the Ningxia aluminium smelter, Corumbá and Jacobs Ranch mines were sold in 2009. No data for these operations are included in the Share of Production table.

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Rio Tinto operational data

	Rio Tinto interest	3Q 2009	4Q 2009	1Q 2010	2Q 2010	**3Q 2010**	9 MTHS 2009	**9 MTHS 2010**
ALUMINIUM								
Rio Tinto Alcan								
Bauxite Mines								
Bauxite production (000 tonnes)								
Australia								
Gove mine Northern Territory	100.0%	1,822	1,996	1,849	1,799	**1,771**	5,188	**5,419**
Weipa mine Queensland	100.0%	3,949	4,942	4,550	4,266	**4,962**	11,293	**13,778**
Brazil								
Porto Trombetas (MRN) mine	12.0%	4,000	4,345	3,809	4,058	**4,569**	11,300	**12,437**
Ghana								
Awaso mine *(a)*	80.0%	28	59	42			381	**42**
Guinea								
Sangaredi mine *(b)*	23.0%	2,602	3,478	3,013	3,094	**3,145**	7,737	**9,252**
Rio Tinto Alcan share of bauxite shipments								
Share of bauxite shipments (000 tonnes)		7,803	9,140	7,671	8,458	**8,513**	22,431	**24,642**

(a) Rio Tinto Alcan had an 80% interest in the Awaso mine but

purchased the additional 20% of production. Rio Tinto Alcan sold its interest in Ghana Bauxite Company, owner of the Awaso mine, with an effective date of 1 February 2010. Production data are shown up to that date.

(b) Rio Tinto has a 22.95% shareholding in the Sangaredi mine but receives 45.0% of production under the partnership agreement.

Smelter-Grade Alumina Refineries
Alumina production (000 tonnes)

Australia								
Gove refinery Northern Territory	100%	641	656	595	615	**642**	1,863	**1,852**
Queensland Alumina Refinery Queensland	80%	1,003	1,017	953	987	**956**	2,942	**2,896**
Yarwun refinery Queensland	100%	345	341	336	318	**364**	1,005	**1,018**
Brazil								
São Luis (Alumar) refinery	10%	373	532	588	507	**676**	1,125	**1,770**
Canada								

Jonquière (Vaudreuil) refinery Quebec *(a)*	100%	261	288	316	309	**340**	836	**966**
France									
Gardanne refinery *(b)*	100%								

(a) Jonquière s production shows smelter grade alumina only and excludes hydrate produced and used by Specialty Alumina.

(b) Production of smelter grade alumina at Gardanne ceased at the end of 2008. Production continues from the Gardanne specialty alumina plant.

Rio Tinto percentage interest shown above is at 30 September 2010. The data represent full production and sales on a 100% basis unless otherwise stated.

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	Rio Tinto interest	3Q 2009	4Q 2009	1Q 2010	2Q 2010	**3Q 2010**	9 MTHS 2009	**9 MTHS 2010**
ALUMINIUM (continued)								
Specialty Alumina Plants								
Specialty alumina production (000 tonnes)								
Canada								
Brockville plant Ontario	100.0%	3	4	4	5	**4**	12	**13**
Jonquière (Vaudreuil) plant Quebec	100.0%	27	26	24	29	**31**	82	**84**
France								
Beyrède	100.0%	4	6	4	5	**4**	10	**14**
Gardanne plant	100.0%	76	83	99	105	**114**	234	**318**
La Bâthie plant	100.0%	4	5	7	6	**7**	11	**19**
Germany								
Teutschenthal plant	100.0%	6	5	5	7	**7**	14	**19**
Aluminium Smelters								
Primary aluminium production (000 tonnes)								
Australia								
Bell Bay smelter Tasmania	100.0%	44	44	43	44	**45**	133	**132**
Boyne Island smelter Queensland	59.4%	141	141	137	140	**141**	416	**418**
Tomago smelter New South Wales	51.6%	133	133	129	131	**134**	395	**394**

Cameroon								
Alucam (Edéa) smelter	46.7%	18	22	17	14	**21**	51	**52**
Canada								
Alma smelter Quebec	100.0%	109	110	107	107	**109**	324	**324**
Alouette (Sept-Îles) smelter Quebec	40.0%	145	145	141	142	**141**	429	**424**
Arvida smelter Quebec	100.0%	43	44	43	43	**44**	127	**130**
Beauharnois smelter Quebec *(a)*	100.0%						11	
Bécancour smelter Quebec	25.1%	103	109	103	106	**104**	312	**313**
Grande-Baie smelter Quebec	100.0%	54	54	54	54	**55**	161	**163**
Kitimat smelter British Columbia	100.0%	53	52	50	50	**44**	172	**145**
Laterrière smelter Quebec	100.0%	59	59	58	59	**38**	176	**154**
Shawinigan smelter Quebec	100.0%	25	25	25	26	**25**	75	**75**
China								
Ningxia (Qingtongxia) smelter *(b)*	0.0%						10	
France								
Dunkerque smelter	100.0%	64	66	64	64	**65**	178	**194**
Saint-Jean-de-Maurienne smelter	100.0%	25	24	24	24	**24**	77	**73**

Rio Tinto percentage interest shown above is at 30 September 2010. The data represent full production and sales on a 100% basis unless otherwise stated.

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	Rio Tinto interest	3Q 2009	4Q 2009	1Q 2010	2Q 2010	**3Q 2010**	9 MTHS 2009	**9 MTHS 2010**
ALUMINIUM (continued)								
Iceland								
ISAL (Reykjavik) smelter	100.0%	48	48	47	47	**48**	141	**142**
New Zealand								
Tiwai Point smelter	79.4%	71	81	82	85	**88**	190	**256**
Norway								
SORAL (Husnes) smelter	50.0%	22	22	22	22	**22**	76	**66**
Oman								
Sohar smelter	20.0%	89	93	89	91	**93**	258	**274**
United Kingdom								
Anglesey Aluminium smelter *(c)*	51.0%	36					106	
Lochaber smelter	100.0%	9	10	10	10	**11**	28	**31**
Lynemouth smelter	100.0%	27	30	31	36	**38**	79	**106**
United States								
Sebree smelter Kentucky	100.0%	48	49	48	49	**48**	144	**146**
Rio Tinto Alcan share of metal sales								
Share of primary aluminium sales (000 tonnes) *(d)*		1,244	1,254	1,232	1,271	**1,182**	3,654	**3,685**

(a) The Beauharnois smelter ceased smelting operations in the second quarter of 2009.

(b) Rio Tinto sold its 50% interest in the Ningxia aluminium smelter with an effective date of 26 January 2009

(c) The Anglesey smelter ceased smelting operations at the end of the third quarter of 2009.

(d) Primary aluminium sales include sales made through Rio Tinto Alcan s Engineered Products division.

BORATES								
Rio Tinto Minerals								
borates	100.0%							
California, US and Argentina								
Borates (000 tonnes)								
(a)		124	109	111	136	**141**	315	**388**

(a) Production is expressed as B_2O_3 content.

Rio Tinto percentage interest shown above is at 30 September 2010. The data represent full production and sales on a 100% basis unless otherwise stated.

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	Rio Tinto interest	3Q 2009	4Q 2009	1Q 2010	2Q 2010	**3Q 2010**	9 MTHS 2009	**9 MTHS 2010**
COAL								
Rio Tinto Coal Australia								
Bengalla mine	30.3%							
New South Wales, Australia								
Thermal coal production (000 tonnes)		1,468	1,434	1,228	1,478	**1,112**	4,032	**3,818**
Blair Athol Coal mine	71.2%							
Queensland, Australia								
Thermal coal production (000 tonnes)		3,007	2,609	2,141	2,202	**1,769**	8,717	**6,112**
Clermont Coal mine *(a)*	50.1%							
Queensland, Australia								
Thermal coal production (000 tonnes)					529	**1,117**		**1,646**
Hail Creek Coal mine	82.0%							
Queensland, Australia								
Hard coking coal production (000 tonnes)		1,824	1,845	1,227	1,790	**2,084**	4,463	**5,101**
Hunter Valley Operations	75.7%							
New South Wales, Australia								
Thermal coal production (000 tonnes)		1,610	2,400	1,892	1,736	**2,213**	6,205	**5,841**
Semi-soft coking coal production (000 tonnes)		1,144	644	690	854	**340**	1,982	**1,883**
Kestrel Coal mine *(b)*	80.0%							
Queensland, Australia								

Thermal coal production (000 tonnes)		138	204	179	228	**176**	645	**583**
Hard coking coal production (000 tonnes)		726	758	1,065	1,159	**907**	2,110	**3,132**
Mount Thorley Operations *New South Wales, Australia*	60.6%							
Thermal coal production (000 tonnes)		882	357	*188*	271	**302**	1,873	**761**
Semi-soft coking coal production (000 tonnes)		81	818	306	552	**316**	294	**1,174**

Rio Tinto percentage interest shown above is at 30 September 2010. The data represent full production and sales on a 100% basis unless otherwise stated.

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	Rio Tinto interest	3Q 2009	4Q 2009	1Q 2010	2Q 2010	**3Q 2010**	9 MTHS 2009	**9 MTHS 2010**
COAL (continued)								
Warkworth mine	42.1%							
New South Wales, Australia								
Thermal coal production (000 tonnes)		1,378	1,272	*1,117*	1,388	**1,279**	3,360	**3,784**
Semi-soft coking coal production (000 tonnes)		204	34	236	54	**46**	496	**336**
Total hard coking coal production (000 tonnes)		2,550	2,603	2,292	2,949	**2,991**	6,573	**8,232**
Total hard coking coal sales (000 tonnes) *(b)*		2,761	2,761	1,873	3,110	**3,023**	7,499	**8,006**
Total other coal production (000 tonnes) *(c)*		9,912	9,772	7,977	9,292	**8,669**	27,605	**25,938**
Total other coal sales (000 tonnes) *(d) (e)*		9,654	10,231	7,235	8,692	**9,587**	26,354	**25,514**
Total coal production (000 tonnes)		12,462	12,375	10,269	12,241	**11,660**	34,178	**34,170**
Total coal sales (000 tonnes)		12,415	12,992	9,108	11,801	**12,611**	33,852	**33,520**
Rio Tinto Coal Australia share								
Share of hard coking coal sales		2,246	2,246	1,519	2,526	**2,459**	6,091	**6,504**

(000 tonnes) *(b)*							
Share of other coal sales (000 tonnes) *(d) (e)*	5,955	6,205	4,377	5,267	**5,588**	16,300	**15,231**

(a) Production commenced at Clermont in the second quarter of 2010.

(b) Kestrel produces hard-coking coal and thermal coal through its mining operations. These coals may be blended at ports; blended coal sales are included in hard-coking coal sales.

(c) Other coal production includes thermal coal and semi-soft coking coal.

(d) Other coal sales include thermal coal and semi-soft coking coal.

(e) Sales relate only to coal mined by the operations and exclude traded coal.

Rio Tinto percentage interest shown above is at 30 September 2010. The data represent full production and sales on a 100% basis unless otherwise stated.

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	Rio Tinto interest	3Q 2009	4Q 2009	1Q 2010	2Q 2010	**3Q 2010**	9 MTHS 2009	**9 MTHS 2010**
COAL (continued)								
US Coal								
Antelope mine *(a)*	48.3%							
Wyoming, US								
Thermal coal production (000 tonnes)		8,057	7,732	7,682	8,095	**8,602**	23,133	**24,378**
Colowyo mine	100.0%							
Colorado, US								
Thermal coal production (000 tonnes)		845	717	582	506	**684**	2,497	**1,772**
Cordero Rojo mine *(a)*	48.3%							
Wyoming, US								
Thermal coal production (000 tonnes)		9,586	9,616	8,091	9,094	**9,389**	26,071	**26,573**
Decker mine *(a)*	24.2%							
Montana, US								
Thermal coal production (000 tonnes)		1,177	901	429	745	**709**	*3,260*	**1,882**
Jacobs Ranch mine *(b)*	0.0%							
Wyoming, US								
Thermal coal production (000 tonnes)		9,126					26,537	
Spring Creek mine *(a)*	48.3%							
Montana, US								
Thermal coal production (000 tonnes)		4,251	3,478	3,674	4,477	**4,768**	12,557	**12,920**
Total coal production (000 tonnes)		33,041	22,444	20,458	22,916	**24,151**	*94,055*	**67,525**
Total coal sales (000 tonnes)		32,918	22,467	22,417	23,042	**24,043**	*94,481*	**69,502**

(a) As a result of the initial public offering of Cloud Peak Energy Inc. on 20 November 2009, Rio Tinto now holds a 48.3% interest in the Antelope, Cordero Rojo and Spring Creek mines and a 24.1% interest in the Decker mine. These interests were formerly reported under Rio Tinto Energy America but are now managed by Cloud Peak Energy.

(b) Rio Tinto sold its 100% interest in the Jacobs Ranch mine with an effective date of 1 October 2009. Production data are shown up to that date.

Rio Tinto percentage interest shown above is at 30 September 2010. The data represent full production and sales on a 100% basis unless otherwise stated.

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	Rio Tinto interest	3Q 2009	4Q 2009	1Q 2010	2Q 2010	**3Q 2010**	9 MTHS 2009	**9 MTHS 2010**
COPPER & GOLD								
Escondida	30.0%							
Chile								
Sulphide ore to concentrator (000 tonnes)		16,224	20,246	17,697	17,711	**19,697**	57,503	**55,105**
Average copper grade (%)		1.40	1.38	1.29	1.40	**1.24**	1.16	**1.31**
Mill production (metals in concentrates):								
Contained copper (000 tonnes)		188.4	233.0	189.2	205.3	**197.7**	544.4	**592.2**
Contained gold (000 ounces)		29	42	40	42	**48**	102	**130**
Contained silver (000 ounces)		1,052	1,641	1,571	1,454	**1,565**	3,783	**4,589**
Recoverable copper in ore stacked for leaching (000 tonnes) *(a)*		72	53	53	65	**47**	230	**165**
Refined production from leach plants:								
Copper cathode production (000 tonnes)		83	80	63	77	**78**	247	**218**

(a) With effect from the first quarter of 2010, the calculation of copper in material mined for leaching is based on ore stacked at the leach pad.

Freeport-McMoRan Copper & Gold

Grasberg mine *(a)*	0.0% (40% of the expansion)							
Papua, Indonesia								
Ore treated (000 tonnes)		22,191	21,786	21,057	*20,330*	**20,328**	*65,188*	**61,715**

Average mill head grades:							
Copper (%)	0.90	0.82	0.78	*0.81*	**0.82**	*1.04*	**0.80**
Gold (g/t)	1.33	1.23	0.87	*0.63*	**0.89**	*1.32*	**0.80**
Silver (g/t)	3.49	3.03	2.96	*2.53*	**3.02**	*3.64*	**2.84**
Production of metals in concentrates:							
Copper in concentrates (000 tonnes)	180.8	161.3	144.6	*143.7*	**148.3**	*610.2*	**436.6**
Gold in concentrates (000 ounces)	823	740	481	*329*	**467**	*2,337*	**1,277**
Silver in concentrates (000 ounces)	1,909	1,652	1,580	*1,258*	**1,132**	*6,236*	**3,969**
Sales of payable metals in concentrates: *(b)*							
Copper in concentrates (000 tonnes)	174.3	152.4	148.4	*130.2*	**144.1**	*585.3*	**422.7**
Gold in concentrates (000 ounces)	796	707	499	*300*	**445**	*2,247*	**1,245**
Silver in concentrates (000 ounces)	1,459	1,248	1,288	*910*	**882**	*4,760*	**3,081**

(a) Through a joint venture agreement with Freeport-McMoRan Copper & Gold (FCX), Rio Tinto is entitled to 40% of additional material mined as a consequence of expansions and developments of the Grasberg facilities since 1998. The 3Q 2010 results show the forecast from FCX s most recent five-year plan because FCX is not releasing its actual 100% operating data for 3Q 2010 until the release of its 2010 third-quarter and nine-month results

on 21 October 2010.

(b) Net of smelter deductions.

Rio Tinto percentage interest shown above is at 30 September 2010. The data represent full production and sales on a 100% basis unless otherwise stated.

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	Rio Tinto interest	3Q 2009	4Q 2009	1Q 2010	2Q 2010	**3Q 2010**	9 MTHS 2009	**9 MTHS 2010**
COPPER & GOLD (continued)								
Kennecott Minerals Company								
Rawhide mine *(a) (b)*	0%							
Nevada, US								
Metals produced in doré:								
Gold (000 ounces)		5	5	4	5		14	**9**
Silver (000 ounces)		63	58	52	62		152	**114**

(a) Mining operations were completed in October 2002 and processing of stockpiled ores was completed in May 2003. Residual gold and silver production continues from the leach pads.

(b) Rio Tinto sold its 100% interest in the Rawhide mine with an effective date of 25 June 2010. Production data are shown up to that date

Kennecott Utah Copper								
Barneys Canyon mine *(a)*	100.0%							
Utah, US								
Gold produced (000 ounces)		0.4	0.4	0.8	0.4	**0.4**	2.0	**1.6**
Bingham Canyon mine	100.0%							

Utah, US							
Ore treated (000 tonnes)	13,880	12,946	13,303	13,269	**13,396**	39,910	**39,969**
Average ore grade:							
Copper (%)	0.60	0.57	0.52	0.48	**0.55**	0.66	**0.52**
Gold (g/t)	0.43	0.53	0.51	0.36	**0.35**	0.47	**0.41**
Silver (g/t)	3.35	3.45	3.28	2.56	**2.75**	3.56	**2.86**
Molybdenum (%)	0.038	0.044	0.042	0.039	**0.043**	0.035	**0.041**
Copper concentrates produced (000 tonnes)	258	223	224	223	**258**	805	**705**
Average concentrate grade (% Cu)	29.3	29.9	27.2	24.6	**25.1**	29.3	**25.6**
Production of metals in copper concentrates:							
Copper (000 tonnes) *(b)*	75.8	66.8	61.3	54.8	**65.2**	236.7	**181.3**
Gold (000 ounces)	138	158	157	109	**104**	424	**370**
Silver (000 ounces)	1,189	1,187	1,146	870	**845**	3,684	**2,861**
Molybdenum concentrates produced (000 tonnes):	6.5	6.5	6.2	5.4	**5.2**	15.0	**16.8**
Molybdenum in concentrates (000 tonnes)	3.4	3.4	3.2	2.8	**2.7**	7.9	**8.7**

(a) Mining operations ceased in the first quarter of 2002. Gold continues to be recovered from leach pads.

(b) Includes a small amount of copper in precipitates.

Rio Tinto percentage interest shown above is at 30 September 2010. The data represent full production and sales on a 100% basis unless otherwise stated.

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(a) New metal excluding recycled material

	Rio Tinto interest	3Q 2009	4Q 2009	1Q 2010	2Q 2010	**3Q 2010**	9 MTHS 2009	**9 MTHS 2010**
COPPER & GOLD (continued)								
Kennecott smelter & refinery	100.0%							
Copper concentrates smelted (000 tonnes)		294	288	232	212	**288**	887	**732**
Copper anodes produced (000 tonnes) *(a)*		67.0	79.7	72.3	53.5	**81.0**	207.4	**206.9**
Production of refined metal:								
Copper (000 tonnes)		67.6	72.9	70.1	59.6	**74.8**	201.3	**204.5**
Gold (000 ounces) *(b)*		112	147	174	146	**164**	332	**484**
Silver (000 ounces) *(b)*		886	1,148	1,320	1,112	**1,207**	2,902	**3,638**

(b) Includes gold and silver in intermediate products.

Northparkes Joint Venture	80.0%							
New South Wales, Australia								
Ore treated (000 tonnes)		1,421	1,344	1,364	1,304	**1,282**	4,210	**3,950**
Average ore grades:								
Copper (%)		0.69	0.70	0.76	0.82	**0.86**	*0.71*	**0.81**
Gold (g/t)		0.26	0.33	0.44	0.57	**0.55**	*0.24*	**0.52**
Copper concentrates produced (000 tonnes)		24.3	23.7	25.9	29.7	**30.2**	*74.8*	**85.9**
Contained copper in concentrates:								
Saleable production (000 tonnes)		8.6	8.1	9.1	9.8	**10.1**	*26.2*	**29.0**
Sales (000 tonnes) *(a)*		6.6	9.7	7.5	7.5	**10.5**	17.3	**25.6**
Contained gold in concentrates:		8.4	11.0	14.0	17.9	**17.3**	*23.3*	**49.2**

Saleable production (000 ounces)							
Sales (000 ounces) *(a)*	6.1	9.8	11.8	15.1	**19.4**	14.4	**46.3**

(a) Rio Tinto s 80% share of material from the Joint Venture.

Rio Tinto percentage interest shown above is at 30 September 2010. The data represent full production and sales on a 100% basis unless otherwise stated.

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	Rio Tinto interest	3Q 2009	4Q 2009	1Q 2010	2Q 2010	**3Q 2010**	9 MTHS 2009	**9 MTHS 2010**
COPPER & GOLD (continued)								
Palabora	57.7%							
Palabora mine								
South Africa								
Ore treated (000 tonnes)		2,792	2,809	2,783	2,861	**2,887**	8,521	**8,531**
Average ore grade: copper (%)		0.66	0.67	0.66	0.64	**0.64**	0.67	**0.65**
Copper concentrates produced (000 tonnes)		61.8	65.8	61.8	57.9	**61.1**	205.0	**180.7**
Average concentrate grade: copper (%)		31.1	30.5	29.8	31.1	**31.0**	30.5	**30.6**
Copper in concentrates (000 tonnes)		19.3	20.1	18.4	18.0	**18.9**	62.5	**55.3**
Palabora smelter/refinery								
New concentrate smelted on site (000 tonnes)		58.5	67.3	57.7	59.6	**61.4**	199.4	**178.7**
New copper anodes produced (000 tonnes)		12.5	14.3	12.4	14.6	**14.3**	51.6	**41.3**
Refined new copper produced (000 tonnes)		13.8	15.1	12.0	13.8	**14.7**	54.3	**40.5**
By-products:								
Magnetite concentrate (000 tonnes)		759	697	754	780	**764**	2,148	**2,299**
Nickel contained in products (tonnes)		29	11	18	15	**15**	84	**48**
Vermiculite plant								
Vermiculite produced (000 tonnes)		48	50	54	46	**51**	146	**151**
DIAMONDS								
Argyle Diamonds	100.0%							
Western Australia								
AK1 ore processed (000 tonnes)		1,465	1,972	1,726	2,009	**1,790**	2,661	**5,525**
AK1 diamonds produced (000 carats)		2,274	3,504	2,531	2,605	**2,425**	7,086	**7,561**
Diavik Diamonds	60.0%							
Northwest Territories, Canada								

Ore processed (000 tonnes)		186	364	388	522	**626**	995	**1,536**
Diamonds recovered (000 carats)		828	1,530	1,563	1,612	**1,783**	4,035	**4,957**
Murowa Diamonds	77.8%							
Zimbabwe								
Ore processed (000 tonnes)		39	66	88	109	**100**	201	**297**
Diamonds recovered (000 carats)		21	37	37	49	**53**	87	**139**

Rio Tinto percentage interest shown above is at 30 September 2010. The data represent full production and sales on a 100% basis unless otherwise stated.

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	Rio Tinto interest	3Q 2009	4Q 2009	1Q 2010	2Q 2010	**3Q 2010**	9 MTHS 2009	**9 MTHS 2010**
IRON ORE & IRON								
Rio Tinto Iron Ore								
Pilbara Operations								
Western Australia								
Saleable iron ore production (000 tonnes):								
Hamersley Paraburdoo, Mount Tom Price, Marandoo, Yandicoogina, Brockman and Nammuldi	100.0%	30,353	30,050	25,510	25,712	**30,334**	76,758	**81,555**
Hamersley Channar	60.0%	3,085	2,528	3,344	2,557	**2,186**	8,513	**8,087**
Hamersley Eastern Range	*(a)*	2,636	2,349	2,473	2,354	**2,182**	6,969	**7,008**
Hope Downs	50.0%	6,037	5,687	8,108	8,104	**7,108**	14,947	**23,319**
Robe River Pannawonica (Mesas J and A) *(b)*	53.0%	7,378	6,801	6,971	7,726	**8,010**	18,377	**22,707**
Robe River West Angelas	53.0%	7,317	8,362	7,083	6,755	**6,985**	20,877	**20,823**
Total production (000 tonnes)		56,808	55,778	53,488	53,207	**56,804**	146,440	**163,499**
Total sales (000 tonnes) *(c)*		55,722	56,350	52,896	55,697	**55,891**	147,545	**164,484**

(a) Rio Tinto owns 54% of the Eastern Range mine. Under the terms of the joint venture agreement, Hamersley Iron

manages the operation and is obliged to purchase all mine production from the joint venture and therefore all of the production is included in Rio Tinto s share of production.

(b) Production at the Mesa A mine commenced in the first quarter of 2010.

(c) Sales represent iron ore exported from Western Australian ports.

Iron Ore Company of Canada	58.7%							
Newfoundland & Labrador and Quebec in Canada								
Saleable iron ore production:								
Concentrates (000 tonnes)		835	1,034	261	959	**702**	4,690	**1,922**
Pellets (000 tonnes)		1,429	3,107	2,923	2,930	**3,181**	5,013	**9,034**
Sales:								
Concentrate (000 tonnes)		1,167	1,317	314	1,455	**972**	3,918	**2,741**
Pellets (000 tonnes)		2,086	3,307	2,676	2,996	**2,406**	5,703	**8,078**
Rio Tinto Brasil Corumbá mine *(a)*	0.0%							
Mato Grosso do Sul, Brazil								
Saleable iron ore production (000 tonnes)		534					1,509	
Sales (000 tonnes)		253					530	

(a)

Rio Tinto sold its 100% interest in the Corumbá mine with an effective date of 18 September 2009. Production data are shown up to that date.

HIsmelt® 60.0%
Western Australia
Pig iron production (000 tonnes) *(a)*

(a) In March 2009, Rio Tinto placed HIsmelt on an extended care and maintenance programme.

Rio Tinto percentage interest shown above is at 30 September 2010. The data represent full production and sales on a 100% basis unless otherwise stated.

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	Rio Tinto interest	3Q 2009	4Q 2009	1Q 2010	2Q 2010	**3Q 2010**	9 MTHS 2009	**9 MTHS 2010**
SALT								
Dampier Salt *Western Australia* Salt production (000 tonnes)	68.4%	2,532	1,744	1,737	2,134	**1,630**	6,812	**5,501**
TALC								
Rio Tinto Minerals talc *Australia, Europe, and North America* Talc production (000 tonnes)	100.0%	240	222	240	264	**259**	*666*	**763**
TITANIUM DIOXIDE FEEDSTOCK								
Rio Tinto Iron & Titanium *Canada and South Africa (a) (b)* (Rio Tinto share) Titanium dioxide feedstock production (000 tonnes)	100.0%	165	325	329	355	**335**	822	**1,019**

(a) Quantities comprise 100% of Rio Tinto Fer et Titane and 50% of Richards Bay Minerals production until late 2009 when RBM concluded a Broad Based Black Economic Empowerment transaction.

RTIT s share of RBM production reflects a decrease from 50% to 37% with effect from 9 December 2009.

(b) Ilmenite mined in Madagascar is being processed in Canada with effect from June 2009.

URANIUM

Energy Resources of Australia Ltd								
Ranger mine	68.4%							
Northern Territory, Australia								
Production (000 lbs U_3O_8)		3,126	2,432	1,991	1,749	**2,078**	9,068	**5,818**
Rössing Uranium Ltd	68.6%							
Namibia								
Production (000 lbs U_3O_8)		2,391	2,475	1,948	2,088	**1,974**	6,676	**6,011**

Rio Tinto percentage interest shown above is at 30 September 2010. The data represent full production and sales on a 100% basis unless otherwise stated.

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Forward-looking statements

This announcement includes forward-looking statements within the meaning of the United States Private Securities Litigation Reform Act of 1995.

All statements other than statements of historical facts included in this announcement, including, without limitation, those regarding Rio Tinto s financial position, business strategy, plans and objectives of management for future operations (including development plans and objectives relating to Rio Tinto s products, production forecasts and reserve and resource positions), are forward-looking statements. These statements may generally, but not always, be identified by the use of words such as anticipates , should , expects , estimates , believes , intends or similar expr

Such forward-looking statements involve known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of Rio Tinto, or industry results, to be materially different from any future results, performance or achievements expressed or implied by such forward-looking statements. Such forward-looking statements are based on numerous assumptions regarding Rio Tinto s present and future business strategies and the environment in which Rio Tinto will operate in the future. Among the important factors that could cause Rio Tinto s actual results, performance or achievements to differ materially from those in the forward-looking statements include, among others, levels of actual production during any period, levels of demand and market prices, the ability to produce and transport products profitably, the impact of foreign currency exchange rates on market prices and operating costs, operational problems, political uncertainty and economic conditions in relevant areas of the world, the actions of competitors, activities by governmental authorities such as changes in taxation or regulation and such other risk factors identified in Rio Tinto s most recent Annual Report on Form 20-F filed with the United States Securities and Exchange Commission (the SEC) or Form 6-Ks furnished to, or filed with, the SEC. Forward-looking statements should, therefore, be construed in light of such risk factors and undue reliance should not be placed on forward-looking statements. These forward-looking statements speak only as of the date of this announcement. Rio Tinto expressly disclaims any obligation or undertaking (except as required by applicable law, the UK Listing Rules, the Disclosure and Transparency Rules of the Financial Services Authority and the Listing Rules of the Australian Securities Exchange) to release publicly any updates or revisions to any forward-looking statement contained herein to reflect any change in Rio Tinto s expectations with regard thereto or any change in events, conditions or circumstances on which any such statement is based.

Nothing in this announcement should be interpreted to mean that future earnings per share of Rio Tinto plc or Rio Tinto Limited will necessarily match or exceed its historical published earnings per share.

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SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrants have duly caused this report to be signed on their behalf by the undersigned, thereunto duly authorised.

Rio Tinto plc
(Registrant)

By /s/ Ben Mathews

Name Ben Mathews
Title Secretary

Date 19 October 2010

Rio Tinto Limited
(Registrant)

By /s/ Ben Mathews

Name Ben Mathews
Title Assistant Secretary

19 October 2010