



Secretaría Ejecutiva



Innovación, Integración

Evaluación de la BEIC

Informe diagnóstico del uso de las colecciones BEIC

Producto "a"

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Introduction

1. INTRODUCTION

1.1. Background and Context

The data for this report was gathered and analyzed by Nicholas Cop Consulting  for the CINCEL consultancy to evaluate the BEIC, the Biblioteca Electrónica de Información Científica.

Nicholas Cop Consulting is an information consulting firm established in 2005 that works internationally with library systems and consortia in the areas of digital libraries and electronic resources, and in the implementation and use of leading edge technologies and standards to deliver information to end users.

This report, which covers the three year period 2008 - 2010 is accompanied by the following additional materials in digital format:

- Usage data collected and manipulated for each publisher
- Excel Usage Templates completed for each publisher and institution. These Templates are the results of the analysis of the usage data.
- Additional tables generated from the data in the Usage Templates

1.2. Questions to Answer

The main questions considered by this report and identified by CINCEL were:

Which titles are the most demanded by each institution?

Which titles don't get consulted?

Which are the most active IP addresses?

What is the rate of turnaways?

CINCEL had previously reviewed usage at consortium and institutional levels for years prior to 2008.

1.3. Limitations

2008 has not been collected at the institutional level for Wiley Blackwell. This is because the data was not available.

The nature of 'Big Deal' title lists provides challenges around the fluid status of various titles in the collections (title changes, titles not active etc) which may need further consideration.

This report was updated December 2011 to correct the Top 10 list of journals for Elsevier and to add the Appendix B of the 3,000 most consulted Elsevier titles. The title Cell was mistakenly included in the first report in the Top 10 list of journals. "Cell" is subscribed to by individual institutions but not by the CINCEL consortium, nevertheless the Elsevier consortial JR1F report which should only show consortial level usage (see http://www.info.sciverse.com/UserFiles/Files/sciencedirect/usagereports_qrg.pdf at Point 5) did include "Cell". It was for this reason that "Cell" appeared in the Top 10 list in the first report.

The Cell Press usage was included in the overall analysis of CINCEL downloads but the title was **excluded** from the Top 10 list of titles in terms of use in the December 2011 update to this report.

The total usage for Cell was:

Year 2008: 5.473
Year 2009: 6.568
Year 2010: 7.593

The total usage for Neuron was:

Year 2008 3.813
Year 2009 5.233
Year 2010: 4.927

Usage recorded for the other publishers in the BEIC collection for this study reflects the titles subscribed to by CINCEL and as identified by the tools used to process the statistics. It must be kept in mind, however, that publishers' JR1 reports can mistakenly include non-subscribed to titles which may be not be identified by the analytical tools used to process the statistics. This may be due to inconsistencies in the title names or in the data itself, among other reasons.

1.4. Additional Material

Additional material below is in digital format in the Excel files associated with this report.

- Usage data was collected and manipulated for each publisher.
- Excel Usage Templates (contain the analysis of the usage data) were completed for each publisher and institution.

Executive Summary

2. EXECUTIVE SUMMARY

This work concerned calculating the comparative value of journal publishers to the CINCEL consortium. The usage data relating to eight CINCEL publisher agreements (see Methodology, section 3.1 below) were studied. The titles accessible ranged from 1 journal title (AAAS) to 2142 journal titles (Elsevier).

Expenditure figures and usage data were collected relating to content accessible during January to December 2009 and 2010 for the 8 publishers and the 25 member institutions. Data collected from publishers excluded any separately paid-for back files with the publisher concerned. In most cases data for 2008 was also included. The great exception was Wiley-Blackwell who, in 2008, were merging two separate platforms (Wiley and Blackwell) resulting in unreliable and difficult to process usage statistics

The results showed:

- Total institutional usage across all 8 publishers in 2008 was 1,954,509 full-text downloads and increased in 2009 by 16% to 2,263,539 downloads. In 2010 there was an increase of 1.7% over 2009 to 2,310,735 full-text downloads. The increase is totally accounted for by an increase in usage in 2010 of ACS, Elsevier and Nature PG content only.
- In 2008 the average cost per download per publisher agreement ranged from \$1.83 (OUP) to \$5.53 (Annual Reviews). In 2009 the average cost per download per publisher agreement ranged from \$1.61 (OUP) to \$6.45 (Wiley-Blackwell). In 2010 the average cost per download per publisher agreement ranged from \$1.83 (OUP) to \$6.92 (Wiley Blackwell).
- The high cost per download of Wiley-Blackwell results from the excessively high cost per download of the Wiley titles (see [Section 5, Graphic Analysis](#)) and the fact that 396 titles or around 20% of all titles in the subscription did not have any accesses. Only around 5% of the titles, or 104 titles, have seen usage of over 500 downloads each in 2010.
- The average cost per download across all agreements in 2010 was higher at \$3.20 compared to \$3.06 in 2009 suggesting the content has provided less value in 2010.
- The average cost per title in 2010 ranged from \$94,997 (AAAS) to \$436.67 (Springer).
- Of the 8 publishers, Elsevier accounted for the highest proportion of usage with 66.00% of all 2010 institutional usage, followed by Wiley Blackwell (10.05%), Springer (8.06%), Nature (5.93%), OUP (3.63%), ACS (3.55%), AAAS (1.57% and Annual Reviews (1.23%). 2009 figures showed a similar breakdown.

-
- UCHILE, PUC and UDEC consistently make the most use of the content, collectively accounting for 61.19% of all usage in 2010 and 59.41% in 2009.
 - UDA, UMCE, UPLA, UTA, UMAG, UCM and UTEM in particular aren't seeing value for money from their contribution. UMCE is an anomaly with a high cost per download because of so few downloads (see Table 6, [Contribution against Usage: 2010 in Section 4, Consolidated Usage across all publishers](#)).
 - It is interesting to note that the **cost per download based on contribution increased dramatically in 2010** compared to 2009 for UDA (\$2.23 to \$12.80), UMCE (from \$18.32 to \$138.17), UPLA (\$1.59 to \$10.43), and UCM (\$2.61 to \$4.24) see Table 6, [Contribution against Usage: 2010 in Section 4, Consolidated Usage across all publishers](#)).
 - The total usage of the most used title in each publisher agreement (8 titles in total, one per publisher) accounted for 5.87% of all usage in 2010 and 6.14% of all usage in 2009 and 6.07% of all usage in 2008.
 - The total usage of *Science* (AAAS) plus the total usage of the top ten titles in each of the other 7 publisher agreements (so 71 titles of 5227 total, or 1.35% of all titles accessible) accounted for 17.20% of the total usage in 2010.

Methodology

3. METHODOLOGY

3.1. Publishers

The 8 publishers were:

AAAS (American Association for the Advancement of Science)
 ACS (American Chemical Society)
 Annual Reviews
 Elsevier
 Nature
 Oxford University Press
 Springer
 Wiley Blackwell

3.2. Institutions

The institutions involved in the study were the 25 members of the CINCEL consortium.

Acronym	Institution name
UCHILE	U. DE CHILE
PUC	P. U. CATOLICA DE CHILE
UDEC	U. DE CONCEPCION
UACH	U. AUSTRAL DE CHILE
USACH	U. DE SANTIAGO
PUCV	P. U. CATOLICA DE VALPARAISO
UTFSM	U. T. SANTA MARIA
UFRO	U. DE LA FRONTERA
UCN	U. CATOLICA DEL NORTE
UV	U. DE VALPARAISO
UNATOF	U. DE ANTOFAGASTA

UTALCA	U. DE TALCA
USERENA	U. DE LA SERENA
UTA	U. DE TARAPACA
UBB	U. DEL BIO BIO
ULAGOS	U. DE LOS LAGOS
UCSC	U. SANTISIMA CONCEPCION
UMAG	U. DE MAGALLANES
UMCE	U. M. CIENCIAS EDUCACION
UCT	U. CATOLICA DE TEMUCO
UPLA	U. DE PLAYA ANCHA
UNAP	U. ARTURO PRAT
UTEM	U. T. METROPOLITANA
UDA	U. DE ATACAMA
UCM	U. CATOLICA DEL MAULE

Universities Andrés Bello and Adolfo Ibañez were not directly included in the analysis although in some cases their usage data was collected.

The acronyms for the universities have been used in the separate reports.

3.3. Collection of usage data

The COUNTER or equivalent usage data collected for each institution were stored in spreadsheets by year and publisher.

It was noted that each publisher may provide different back-file access rights included in their agreement for the duration of the term of the agreement and also in connection with any original core subscription holdings. No normalization of data was undertaken on the basis that the years of back access available were integral to each CINCEL agreement and the amounts paid.

Where archives were sold separately at institutional level by the publisher, the usage data for this content has been excluded from the collection.

3.4. Usage Data Manipulation

The usage data collected and stored in the spreadsheets was manipulated in the following way for 2009 and 2010 data.

- The titles in the CINCEL collection were identified and any non collection titles were identified and moved to a separate sheet. The exception to this was Wiley Blackwell 2010 data where all data was kept together.
- The collection titles in each institutional usage data sheet were then sorted by highest usage values per title to lowest, using the total Full Text download figure (a combination of PDF and HTML totals).
- A count was made of how many titles fell into each different tier relating to usage. The tier levels are described in 3.5 below.
-
- Summary information was then recorded in a Publisher-Institutional template as outlined in 3.5 below.

3.5. Publisher-Institutional Template

For each publisher and institution concerned, the following information was recorded and calculated in a separate template (spreadsheet) for each institution:

- Number of Full Text Article Requests (PDF and HTML)
- (Average Cost per Article Request calculated only in the case of Elsevier)
- Number of journal titles accessible in the collection
- The top 10 titles by usage (article requests)
- The usage of each of the 10 titles previously mentioned
- The percentage of use of each title of the total usage figure
- The percentage of the total usage of the top 10 titles of the total usage figure
- The number of journals with number of downloads in tiers:
 - 0 Requests
 - 1-9 Requests
 - 10-49 Requests
 - 50-99 Requests
 - 100-199 Requests
 - 200-299 Requests
 - 300-399 Requests

- 400-499 Requests
- 500+ Requests

- A list of any titles with 3,000+ article requests

The completed templates for the institutions and publishers were shown in separate spreadsheets and provided with the usage data collected, along with a report for each Publisher. See 3.6 below.

3.6. Publisher Reporting: Tables

A separate report for each publisher involved was created to show similar information. These reports aimed to provide answers to the questions posed in section 2.2 of this report.

The publisher reports included tables showing the following information (but not limited to this information) for each publisher:

- Number of journals in the CINCEL collection in 2008, 2009 and 2010
- Total expenditure with this publisher in 2008, 2009 and 2010
- Total number of Full Text downloads with this publisher in 2008, 2009 and 2010
- Average cost per download in each year mentioned
- Average cost per title for each year mentioned
- Top ten titles across all members in 2008, 2009 and 2010
- Top ten shared titles by members in 2010 and which institutions used the titles
- Institutional usage in 2008 (where available), 2009 and 2010, percentage of total usage and percentage increase or decrease from 2009 to 2010

- Information at consortium level about the number of article requests for each title, for example showing the number of titles showing no hits, or over 500 hits and the percentage of the total in each category.
- The most active IP addresses (only where available)
- The average cost per download at institutional level (only for Elsevier)

Please see each separate report for the full detail.

Consolidated results across all publishers

4. RESULTS

4.1. Publisher Reports

The results were reported in two ways. Firstly a report was produced for each publisher following the format show in 3.6 above. The reports were provided as separate reports in their own right. These have been provided in the section in this report with the details of each publisher.

A report was provided for:

- AAAS
- American Chemical Society
- Annual Reviews
- Elsevier
- Nature Publishing Group
- Oxford University Press
- Springer
- Wiley-Blackwell

4.2. Consolidated Results

Once the data for the 8 publishers had been collected and analyzed it was then possible to undertake further comparisons of the data. Table 1 below shows the change between 2009 and 2010 concerning the final total usage for each publisher.

Table 1: 2008, 2009 and 2010 usage data (downloads) for each publisher and % change

Institutions	AAAS	ACS	Annual Reviews	Elsevier	Nature PG	OUP	Springer	Wiley-Blackwell	Total
2008 totals	38,036	56,518	29,416	1,211,651	100,056	74,880	175,299	268,653	1,954,509
2009 Totals	40,000	73,663	30,095	1,469,978	122,229	89,703	201,729	236,172	2,263,539
2010 Totals	36,277	81,931	28,319	1,525,075	136,944	83,826	186,215	232,148	2,310,735
Difference	-3,723	217	-1,776	55,097	14,715	-5,877	-15,514	-4,024	47,196
% Incr/ Decr: 2009 to 2010	-9%	11%	-6%	4%	12%	-7%	-8%	-2%	2%

From Table 1 it can be seen that although the overall usage increased from 2009 to 2010, the increase was totally as a result of increased usage relating to ACS, Elsevier and Nature PG. Otherwise there has been a decrease in usage ranging from -9% (AAAS) to -2% (Wiley Blackwell).

Table 2 shows the consolidated overview figures for 2008.

Table 2: 2008 consolidated overview figures for each publisher

Table 2: Consolidated figures (downloads) for 2008									
Institutions	AAAS	ACS	Annual Reviews	Elsevier	Nature PG	OUP	Springer	Wiley-Blackwell	2008 Total
PUC	10610	10570	5472	236001	27,796	18209	45750	Don't	354,408
PUCV	9262	2543	621	43348	2,108	2091	6844	have	66,817
UACH	6113	1164	2343	33113	4,678	3250	10690	2008	63,359
UBB	1645	762	197	11023	886	369	630	institutional	15,512
UCHILE	1372	16240	8601	348079	27,344	27312	40781	statistics	469,729
UCM	1004	215	536	6338	669	815	1152		10,729
UCN	1247	1071	452	40271	1,333	1171	6386		51,931
UCSC	779	156	177	5918	507	664	2512		10,713
UCT	1458	428	161	23981	766	527	1449		28,770
UDA	910	20	52	4567	43	233	974		6,799
UDEC	501	7654	3335	182820	13,801	7469	22758		238,338
UFRO	344	897	907	72526	2,451	2002	6357		85,484
ULAGOS	463	217	146	6698	241	605	2352		10,722
UMAG	45	99	99	1608	222	341	1408		3,822
UMCE	302	0	0	1297	0	49	0		1,648
UNAP	556	270	369	8930	1,362	355	2078		13,920
UNATOF	239	2105	612	23058	2,465	908	2048		31,435
UPLA	246	4	258	245	180	37	1		971
USACH	186	7130	937	56039	3,802	1814	8623		78,531
USERENA	281	770	909	23176	2,139	194	3706		31,175
UTA	236	207	801	6178	161	725	405		8,713
UTALCA	126	1278	866	30178	1,806	1838	3986		40,078
UTEM	0	244	28	3488	64	51	0		3,875
UTFSM	34	1646	137	21722	920	433	612		25,504
UV	77	828	1400	21049	4,312	3418	3797		34,881
2008 Totals	38,036	56,518	29,416	1,211,651	100,056	74,880	175,299	268,653	1,954,509
% usage of total	1.95%	2.89%	1.51%	61.99%	5.12%	3.83%	8.97%	13.75%	100.00%
# titles	1	36	35	2059	31	206	1496	1266	5,130

Average per title	38,036	1,570	840	588	3,228	363	117	212	381
Title with most usage	38,036	10,084	2,796	23,390	32,178	4,994	3,500	3,737	118,715
Top title as % of all	100.00%	17.84%	9.51%	1.93%	32.16%	6.67%	2.00%	1.39%	6.07%
Cost US\$	\$114,163	\$260,036	\$162,750	\$3,122,616	\$549,901	\$136,663	\$610,000	\$1,439,215	\$6,395,344
Ave Cost per title	\$114,163.00	\$7,223.22	\$4,650.00	\$1,516.57	\$17,738.74	\$663.41	\$407.75	\$1,136.82	\$1,246.66
Ave cost download	\$3.00	\$4.60	\$5.53	\$2.58	\$5.50	\$1.83	\$3.48	\$5.36	\$3.27

Table3 on the next page shows the consolidated overview figures for 2009

Table 3: 2009 consolidated overview figures for each publisher

Table 3: Consolidated figures (downloads) for 2009									
Institutions	AAAS	ACS	Annual Reviews	Elsevier	Nature PG	OUP	Springer	Wiley-Blackwell	2009 Total
PUC	9,646	13204	5,611	292,470	33,708	2,468	51,544	75,795	484,446
PUCV	874	3777	691	63,372	1,833	4,739	7,633	15,748	98,667
UACH	2,359	1546	2,051	67,902	8,038	388	11,009	772	94,065
UBB	176	756	149	14,533	562	28,735	950	2,052	47,913
UCHILE	10,822	19432	9,138	365,783	33,951	763	46,508	56,038	542,435
UCM	154	162	317	9,236	795	1,320	1,411	1,423	14,818
UCN	1,096	1749	533	49,765	1,678	773	6,942	5,461	67,997
UCSC	191	221	243	5,951	665	609	2,345	392	10,617
UCT	436	467	173	27,601	609	109	2,243	3,008	34,646
UDA	31	24	22	3,608	140	12,850	476	190	17,341
UDEC	5,401	11076	3,430	223,539	17,583	2,033	29,689	29,909	322,660
UFRO	489	1591	858	71,447	2,476	638	6,523	6,054	90,076
ULAGOS	218	211	183	7,241	221	263	2,288	2,606	13,231
UMAG	157	173	116	4,545	408	0	1,218	966	7,583
UMCE	2	0	0	1,825	0	282	1	0	2,110
UNAP	397	236	318	11,645	1,625	1,463	2,259	562	18,505
UNATOF	739	2997	1,908	48,299	2,236	54	4,879	3,983	65,095
UPLA	650	0	1	2,404	393	20,138	55	646	24,287
USACH	1,315	8302	937	66,049	4,463	2,183	6,731	6,413	96,393
USERENA	501	719	592	17,173	3,146	819	2,703	3,268	28,921
UTA	162	160	171	8,227	302	666	856	1,256	11,800
UTALCA	674	2907	1,032	39,651	2,351	4,808	6,528	8,185	66,136
UTEM	72	354	10	2,666	81	59	0	0	3,242
UTFSM	2,364	2833	189	34,047	1,199	622	3,937	2,503	47,694
UV	1,074	736	1,422	30,999	3,766	2,921	3,001	8,942	52,861
2009 Totals	40,000	73,633	30,095	1,469,978	122,229	89,703	201,729	236,172	2,263,539
% usage of total	1.77%	3.25%	1.33%	64.94%	5.40%	3.96%	8.91%	10.43%	100.00%
# titles	1	36	35	2059	31	206	1496	1266	5,130

Average per title	40,000	2,045	860	714	3,943	435	135	187	441
Title with most usage	40,000	13,805	2,488	27,966	41,602	6,906	3,802	3,004	139,573
Top title as % of all	100.00%	18.75%	8.27%	1.90%	34.04%	7.70%	1.88%	1.27%	6.17%
Cost US\$	\$121,939	\$273,000	\$101,850	\$3,424,784	\$710,851	\$144,862	\$628,300	\$1,522,681	\$6,928,267
Ave Cost per title	\$121,939.00	\$7,583.33	\$2,910.00	\$1,663.32	\$22,930.68	\$703.21	\$419.99	\$1,202.75	\$1,350.54
Ave cost download	\$3.05	\$3.71	\$3.38	\$2.33	\$5.82	\$1.61	\$3.11	\$6.45	\$3.06

CONICYT				1047					148
CONSORT				0					

CINCEL provided separate figures for Blackwell and for Wiley for 2009 in Table 3a. These separate figures were combined with data in Table 3 to produce the “Downloads and cost per download by publisher: 2009” graphic of section 5.5

Table 3a: Summary figures for Blackwell and for Wiley in 2009.

Publisher	2009 US\$	2009 Articles downloaded	Average cost per download (cpd)	% Cost Increase over 2008	% usage of total	% cost of total of all publishers
Blackwell	\$675,289.00	168,987	\$4.00	4.61%	7.41%	9.92%
Wiley	\$847,392.00	94,504	\$8.97	6.77%	4.15%	12.45%

In 2009 from Table 3 above it can be seen that:

In terms of numbers of downloads, Elsevier accounted for the greatest amount of usage with 64.94% of all usage. Annual Reviews accounted for the least amount of usage with 1.33% of all usage (followed by Science with 1.77%).

When looking at the title with the most downloads by publisher, it was found that the title *Nature* (Nature PG) accounted for the most usage with 41,602 full text downloads, followed by *Science* (AAAS) accounting for 40,000 downloads, and *Annual Reviews of Plant Biology* accounted for the lowest with 2,488 downloads.

The average number of downloads across all Annual Reviews content was 860 per title, whereas the average number of downloads per title was lower for Elsevier, OUP, Springer and Wiley-Blackwell. It would seem that most of the Annual Reviews titles provide a level of usage which is higher than many of the titles provided by the other publishers mentioned. Nature PG, AAAS/Science and ACS had a higher average per title than Annual Reviews.

The lowest average cost per download related to OUP at US\$1.61 and the highest was Wiley Blackwell at US\$6.45 (based on estimates, later adjusted to US\$ 5.37 based on actual downloads) .

Figure 1: showing title with the most usage and the average number of downloads per title for each publisher in 2009

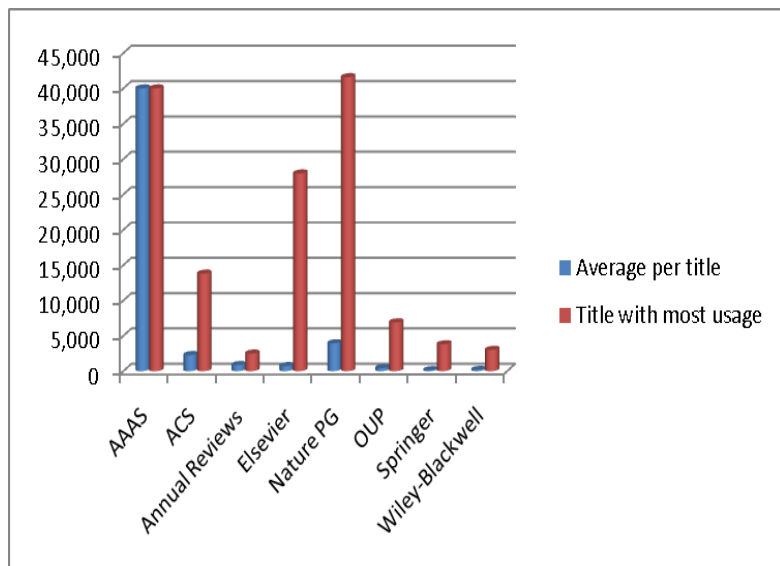


Table 4 below shows the consolidated overview figures for 2010.

Table 4: Consolidated overview figures (downloads) for 2010									
Institutions	AAAS	ACS	Annual Reviews	Elsevier	Nature PG	OUP	Springer	Wiley-Blackwell	2010 Total
PUC	8,822	16,453	5,858	306,407	38,432	19,855	49,788	72,276	517,891
PUCV	816	108	829	66,380	2,380	2,329	5,789	12,149	90,780
UACH	2,682	1,829	2,056	95,329	10,689	5,950	10,918	13,709	143,162
UBB	138	580	83	15,003	468	577	984	1,398	19,231
UCHILE	9,490	18,849	7,799	378,400	38,642	25,812	42,900	50,972	572,864
UCM	103	169	274	6,149	387	427	996	1,073	9,578
UCN	820	1,208	574	47,078	2,682	1,588	5,910	4,554	64,414
UCSC	120	107	175	6,833	626	700	1,835	3,626	14,022
UCT	386	1,084	571	24,813	292	910	2,324	1,995	32,375
UDA	22	38	17	2,469	71	78	438	41	3,174
UDEC	5,147	13,623	4,055	217,445	20,055	10,188	24,541	28,176	323,230
UFRO	277	3,153	595	80,908	2,675	1,645	5,806	5,846	100,905
ULAGOS	264	136	102	7,358	340	439	1,462	1,758	11,859
UMAG	308	132	151	3,733	392	233	1,211	698	6,858
UMCE	23	0	1	264	0	5	1	0	294
UNAP	282	646	180	16,549	1,163	420	2,647	651	22,538
UNATOF	938	2,641	1,331	34,580	2,542	1,668	5,090	1,470	50,260
UPLA	248	14	53	2,404	464	42	115	555	3,895
USACH	1,197	9,180	895	75,488	5,116	2,299	6,281	7,580	108,036
USERENA	635	1,642	493	16,833	1,152	1,772	3,170	3,396	29,093
UTA	96	789	233	7,684	119	296	918	594	10,729
UTALCA	650	2,858	752	41,696	2,049	3,425	6,188	10,704	68,322
UTEM	21	610	1	2,695	42	19	50	291	3,729
UTFSM	1,664	5,065	283	33,962	1,286	498	3,152	2,022	47,932
UV	1,128	1,017	958	34,615	4,880	2,651	3,701	6,614	55,564
2010 Totals	36,277	81,931	28,319	1,525,075	136,944	83,826	186,215	232,148	2,310,735
% usage of total	1.57%	3.55%	1.23%	66.00%	5.93%	3.63%	8.06%	10.05%	100.00%
# titles	1	37	35	2,142	31	208	1482	1291	5,227

Average per title	36,277	2,214	809	712	4,418	403	126	180	442
Title with most usage	36,277	9,494	2,808	26,228	45,748	6,562	3,102	5,382	135,601
Top title as % of all	100.00%	11.59%	9.92%	1.72%	33.41%	7.83%	1.67%	2.32%	5.87%
Top ten titles usage	36,277	47,162	16,391	132,297	91,560	33,454	21,001	19,306	397,448
Top ten as % of all		57.56%	57.88%	8.67%	66.86%	39.91%	11.28%	8.32%	17.20%
Cost US\$	94,997	290,100	93,983	3,752,271	753,509	153,555	647,149	1,606,665	\$7,392,229
Ave cost per title	\$94,997.00	\$7,840.54	\$2,685.23	\$1,751.76	\$24,306.74	\$738.25	\$436.67	\$1,244.51	\$1,414.24
Ave cost download	\$2.62	\$3.54	\$3.32	\$2.46	\$5.50	\$1.83	\$3.48	\$6.92	\$3.20

CONICYT				1,565					414
CONSORT				614					

In 2010 from Table 4 above:

In terms of numbers of downloads, Elsevier accounted for the greatest amount of usage with 66.00% of all usage. Annual Reviews accounted for the least amount of usage with 1.23% of all usage (followed by Science with 1.57%).

When looking at the title with the most downloads by publisher, it was found that the title *Nature* (Nature PG) accounted for the most usage with 45,748 full text downloads, followed by *Science* (AAAS) accounting for 36,277 downloads, and *Annual Reviews of Plant Biology* accounted for the lowest with 2,808 downloads.

The average number of downloads across all Annual Reviews content was 809 per title, whereas the average number of downloads per title was lower for Elsevier, OUP, Springer and Wiley-Blackwell. As seen in 2009, it would seem that most of the Annual Reviews titles provide a level of usage which is higher than many of the titles provided by the other publishers mentioned. Nature PG, AAAS/Science and ACS had a higher average per title than Annual Reviews.

The lowest average cost per download related to OUP at US\$1.83 and the highest was Wiley Blackwell at US\$6.92 (using data up to August 2010 and extrapolated for the year, later adjusted to US\$ 5.37 based on actual downloads).

In addition, for 2010 it was found that the top ten titles from Nature PG accounted for 66.86% of all Nature PG usage, 57.88% of Annual Reviews usage and 57.56% of ACS usage came from the top ten most used titles. Wiley Blackwell's top ten titles by usage only accounted for 8.32% of all

Wiley Blackwell usage suggesting that more of their titles were used to a differing extent. (Science with only one title was excluded from this analysis).

Figure 2: showing title with most usage and average number of downloads per title for each publisher in 2010

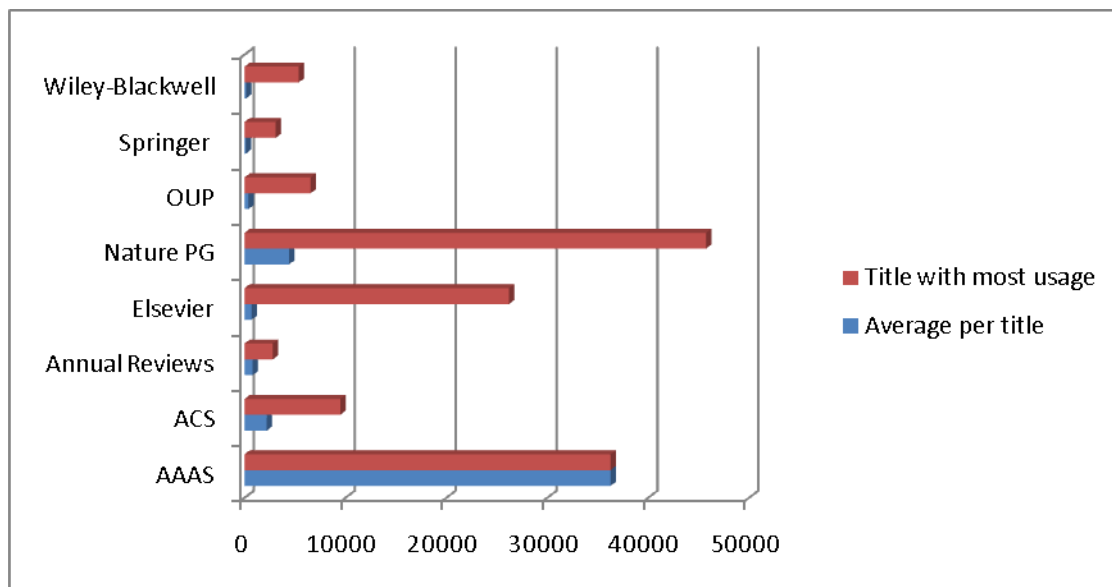


Table 5 below on the next page shows the overview of how each institution’s usage changed from 2009 to 2010, also expressed as a percentage. Where an institutions’ usage has decreased in 2010 this is shown in red text.

The final columns to the right also show the position of the top ten institutions in 2009 and 2010. Where an institution has dropped in position in 2010 is shown by red text.

Table 5 - Usage increase or decrease in downloads by institution 2009-2010

Table 5 : Usage increase/decrease in downloads by institution						
Institutions	2009 usage	2010 usage	Incr/Decr	% Incr/Decr	2009 Top 10 by usage	2010 Top 10 by usage
PUC	484,446	517,891	33,445	6.90%	2	2
PUCV	98,667	90,780	-7,887	-7.99%	4	7
UACH	94,065	143,162	49,097	52.19%	6	4
UBB	47,913	19,231	-28,682	-59.86%		
UCHILE	542,435	572,864	30,429	5.61%	1	1
UCM	14,818	9,578	-5,240	-35.36%		
UCN	67,997	64,414	-3,583	-5.27%	8	9
UCSC	10,617	14,022	3,405	32.07%		
UCT	34,646	32,375	-2,271	-6.55%		
UDA	17,341	3,174	-14,167	-81.70%		
UDEC	322,660	323,230	570	0.18%	3	3
UFRO	90,076	100,905	10,829	12.02%	7	6
ULAGOS	13,231	11,859	-1,372	-10.37%		
UMAG	7,583	6,858	-725	-9.56%		
UMCE	2,110	294	-1,816	-86.07%		
UNAP	18,505	22,538	4,033	21.79%		
UNATOF	65,095	50,260	-14,835	-22.79%	10	
UPLA	24,287	3,895	-20,392	-83.96%		
USACH	96,393	108,036	11,643	12.08%	5	5
USERENA	28,921	29,093	172	0.59%		
UTA	11,800	10,729	-1,071	-9.08%		
UTALCA	66,136	68,322	2,186	3.31%	9	8
UTEM	3,242	3,729	487	15.02%		
UTFSM	47,694	47,932	238	0.50%		
UV	52,861	55,564	2,703	5.11%		10
Totals	2,263,539	2,310,735	47,196	2%		
# titles	5,130	5,227				
Average per title	441	442				
Cost US\$	\$6,928,267.00	\$7,392,229				
Ave cost per title	\$1,350.54	\$1,414.24				
Ave cost download	\$3.06	\$3.20				

The bottom of Table 5 shows the overall average cost per download each year and the average cost per title.

The average cost per title and the average cost per download have increased into 2010 suggesting the value of the agreements to the consortium have decreased a little.

Contribution against Usage: 2010

Table 6 shows the each institution's contribution for 2010 set against the 2010 total usage data for each institution.

Table 6: 2010 Usage (downloads), Contribution and Average Cost Per Download (cpd) by Institution

Institutions	2010 usage (downloads)	Contribution 2010	2010 average cpd
PUC	517,891	\$624,213.00	\$1.21
PUCV	90,780	\$99,456.00	\$1.10
UACH	143,162	\$164,928.00	\$1.15
UBB	19,231	\$66,863.00	\$3.48
UCHILE	572,864	\$571,103.00	\$1.00
UCM	9,578	\$40,621.00	\$4.24
UCN	64,414	\$174,187.00	\$2.70
UCSC	14,022	\$41,232.00	\$2.94
UCT	32,375	\$40,621.00	\$1.25
UDA	3,174	\$40,621.00	\$12.80
UDEC	323,230	\$497,564.00	\$1.54
UFRO	100,905	\$122,844.00	\$1.22
ULAGOS	11,859	\$51,477.00	\$4.34
UMAG	6,858	\$40,621.00	\$5.92
UMCE	294	\$40,621.00	\$138.17
UNAP	22,538	\$40,621.00	\$1.80
UNATOF	50,260	\$96,208.00	\$1.91
UPLA	3,895	\$40,621.00	\$10.43
USACH	108,036	\$350,438.00	\$3.24
USERENA	29,093	\$67,720.00	\$2.33
UTA	10,729	\$62,972.00	\$5.87
UTALCA	68,322	\$86,212.00	\$1.26
UTEM	3,729	\$40,621.00	\$10.89
UTFSM	47,932	\$179,866.00	\$3.75
UV	55,564	\$120,582.00	\$2.17
TOTALS	2,310,735	\$3,702,833.00	\$1.60

It can be seen that UDA, UMCE, UPLA, UTA, UMAG, UCM and UTEM in particular aren't seeing value for money from their contribution. UMCE is an anomaly with a high cost per download because of so few downloads.

It is interesting to note that the *cost per download based on contribution increased dramatically in 2010* compared to 2009 for UDA (\$2.23 to \$12.80), UMCE (from \$18.32 to \$138.17), UPLA (\$1.59 to \$10.43), and UCM (\$2.61 to \$4.24). Below are the 2009 costs per download.

Contribution against Usage: 2009

Table 7 shows the each institution's contribution for 2009 set against the 2009 total usage data for each institution.

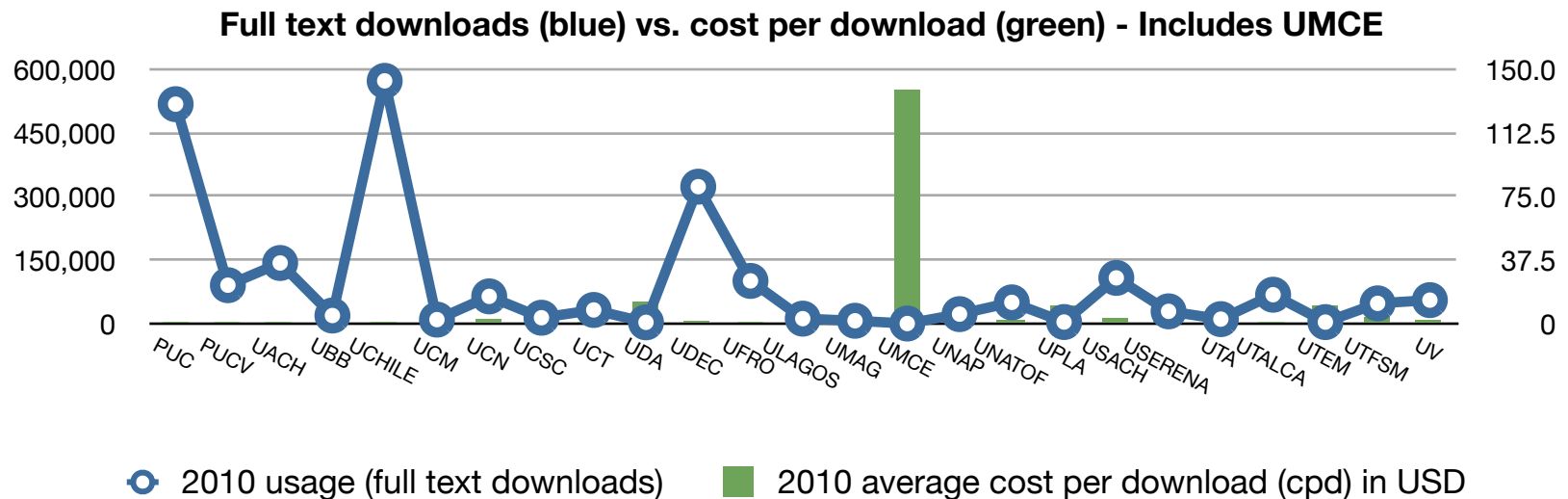
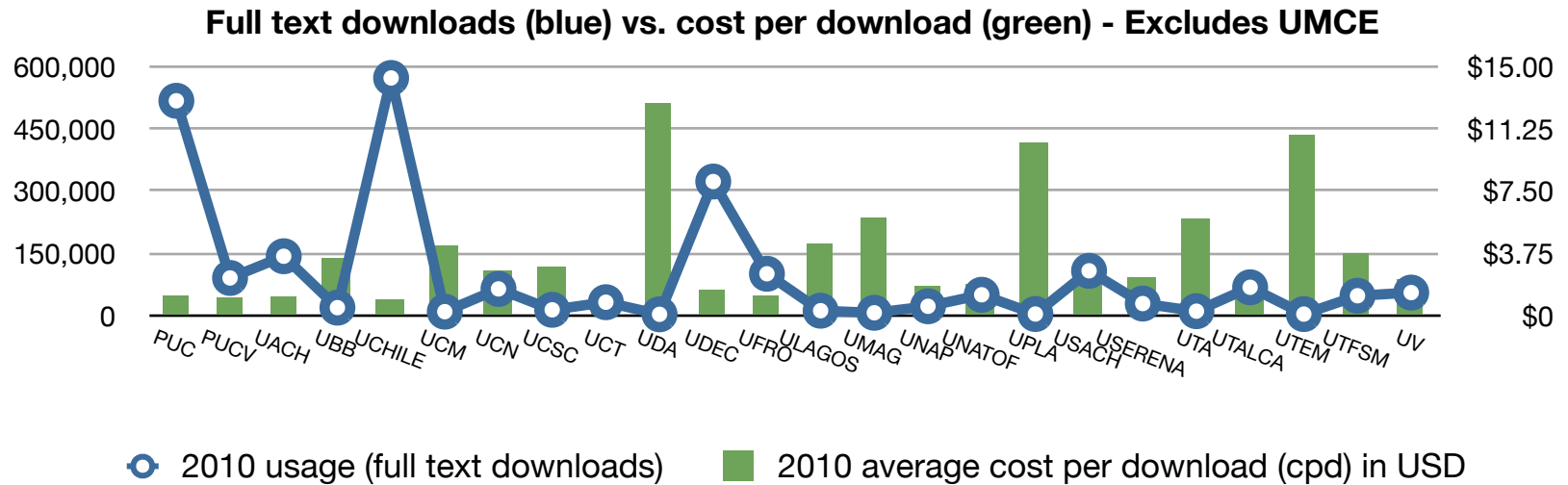
Table 7: 2009 Usage (downloads), Contribution and Average Cost Per Download by Institution

Institutions	2009 Usage (downloads)	Contribution 2009	2009 average cpd
PUC	484,446	\$583,134	\$1.20
PUCV	98,667	\$76,332	\$0.77
UACH	94,065	\$151,717	\$1.61
UBB	47,913	\$61,330	\$1.28
UCHILE	542,435	\$528,322	\$0.97
UCM	14,818	\$38,662	\$2.61
UCN	67,997	\$161,772	\$2.38
UCSC	18,698	\$38,662	\$2.07
UCT	34,646	\$38,662	\$1.12
UDA	17,341	\$38,662	\$2.23
UDEC	322,660	\$466,371	\$1.45
UFRO	90,076	\$113,301	\$1.26
ULAGOS	13,231	\$47,354	\$3.58
UMAG	7,583	\$38,662	\$5.10
UMCE	2,110	\$38,662	\$18.32
UNAP	18,505	\$38,662	\$2.09
UNATOF	65,095	\$88,501	\$1.36
UPLA	24,287	\$38,662	\$1.59
USACH	96,393	\$309,329	\$3.21
USERENA	28,921	\$52,199	\$1.80
UTA	11,800	\$57,928	\$4.91
UTALCA	66,136	\$79,306	\$1.20
UTEM	3,242	\$38,662	\$11.93
UTFSM	47,694	\$167,139	\$3.50
UV	52,861	\$111,175	\$2.10
TOTALS	2,271,620	\$3,403,168	\$1.50

Graphical representations

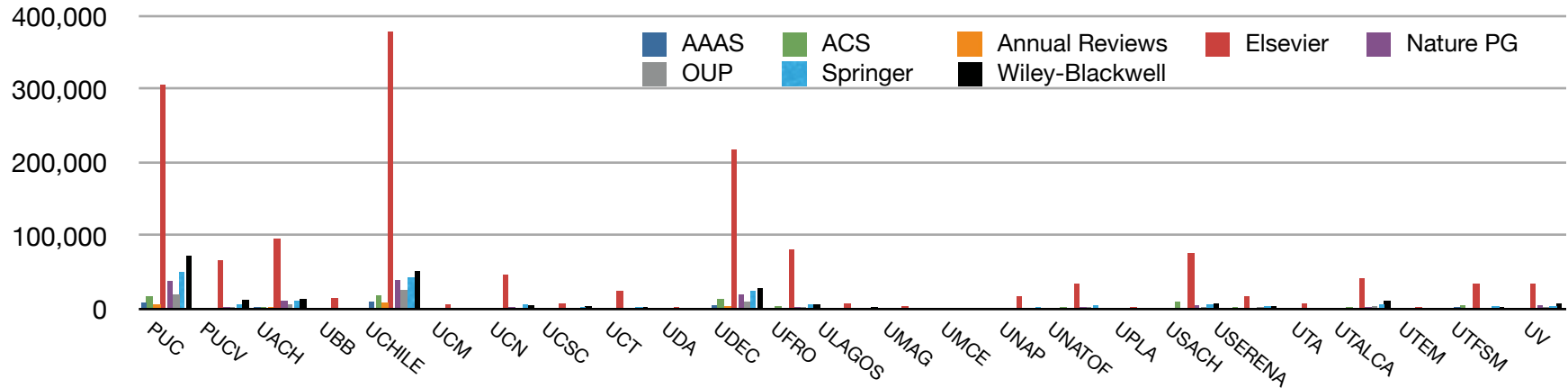
5. GRAPHICAL REPRESENTATIONS

5.1. Full text downloads versus cost per download per institution: 2010

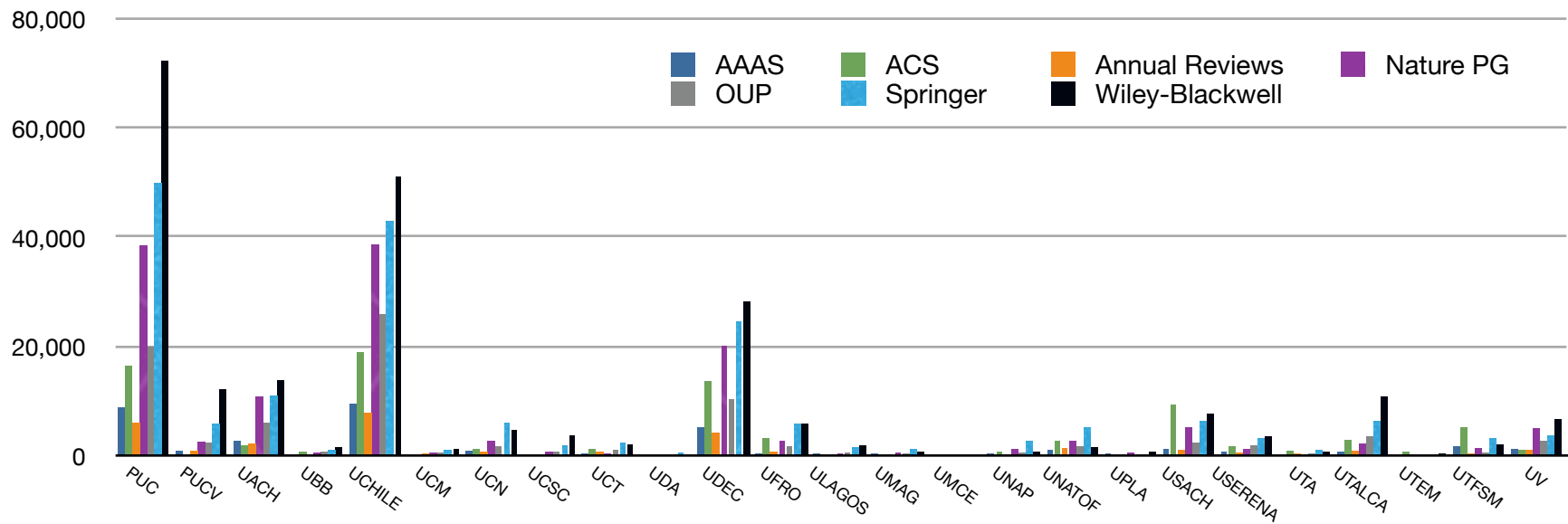


5.2. Downloads per institution per publisher: 2010

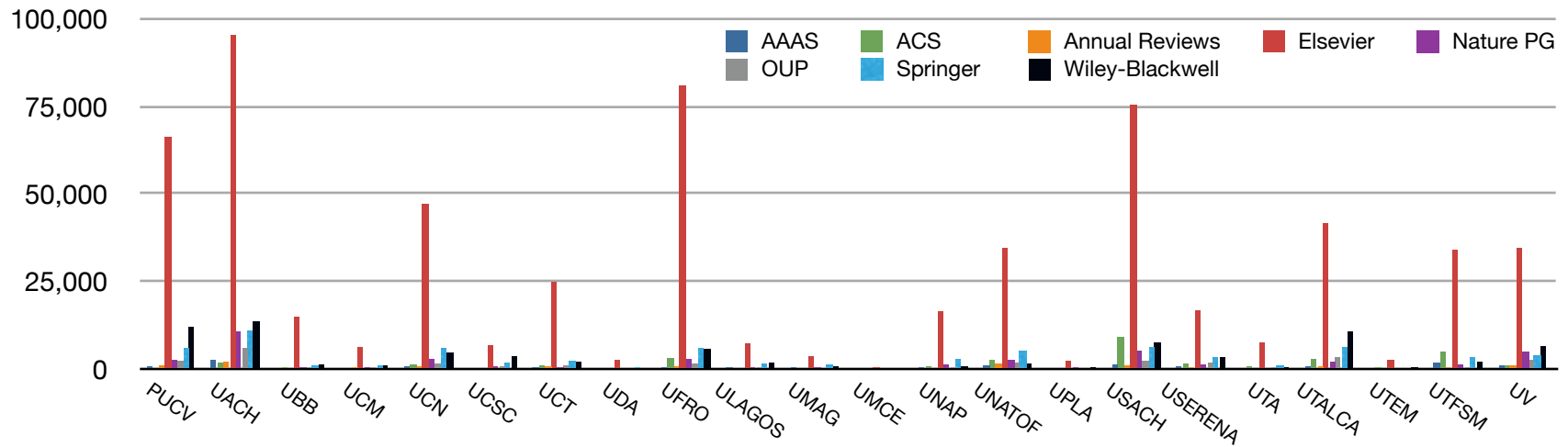
2010 - Descargas por institución por editorial



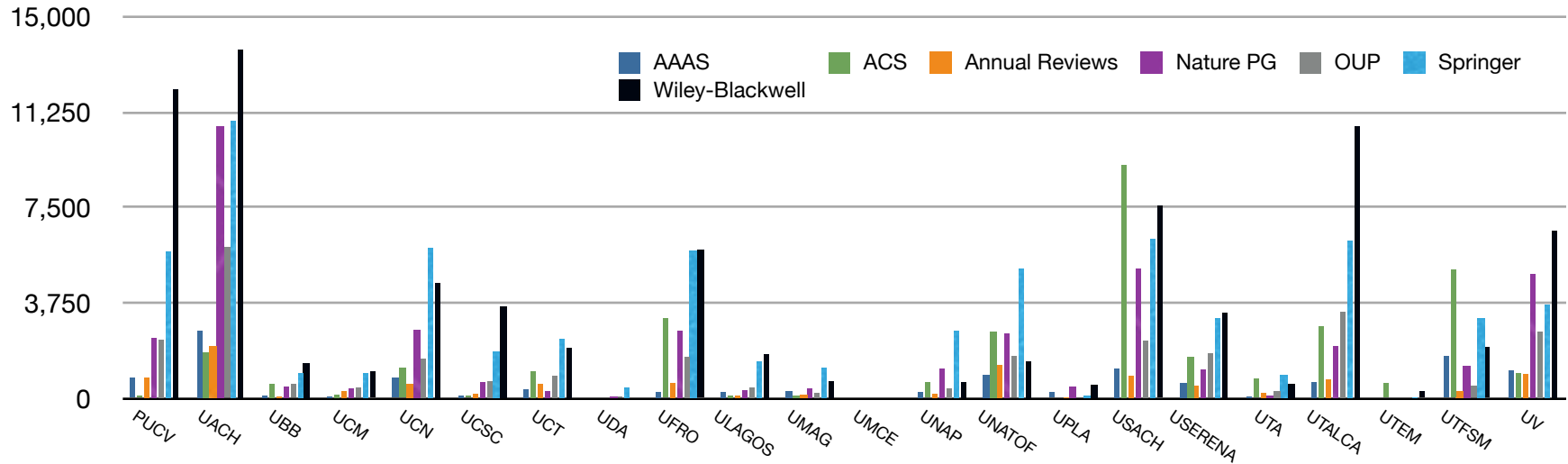
2010 - Descargas por institución por editorial SIN Elsevier



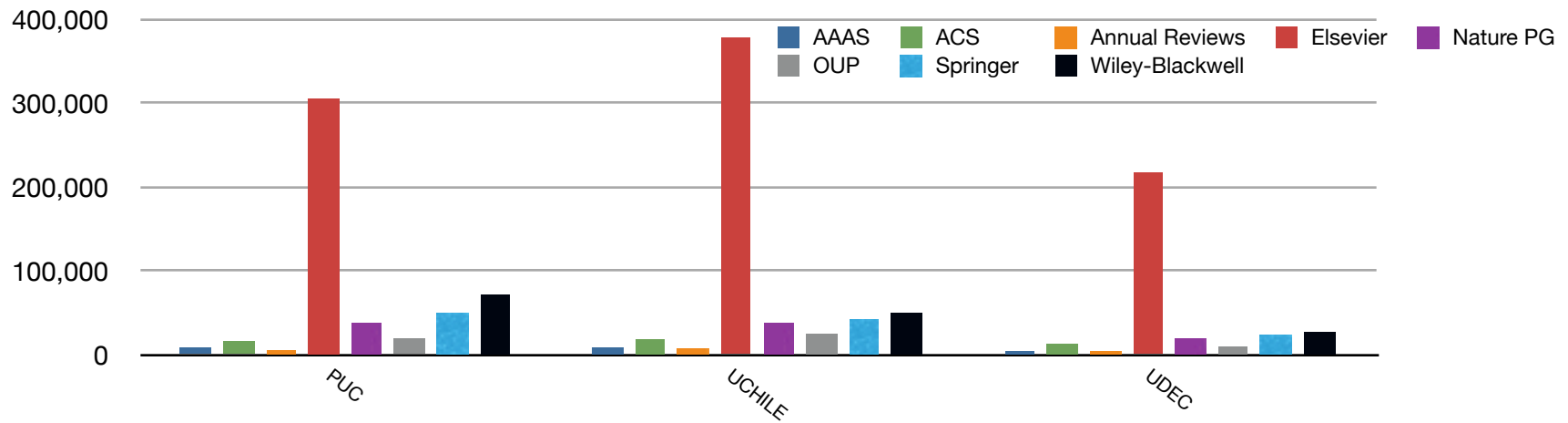
2010 - Descargas EXCLUYENDO UCHILE, PUC y UDEC por editorial



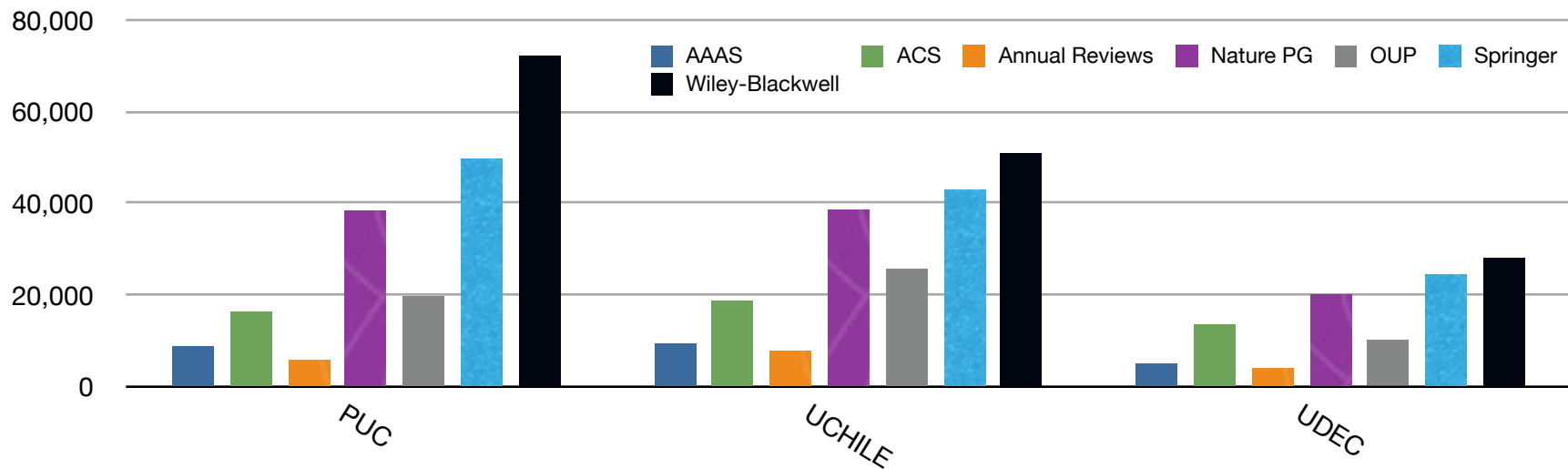
2010 - Descargas EXCLUYENDO UCHILE, PUC y UDEC por editorial SIN Elsevier



2010 - Descargas UCHILE, PUC y UDEC por editorial



2010 - Descargas UCHILE, PUC y UDEC por editorial SIN Elsevier



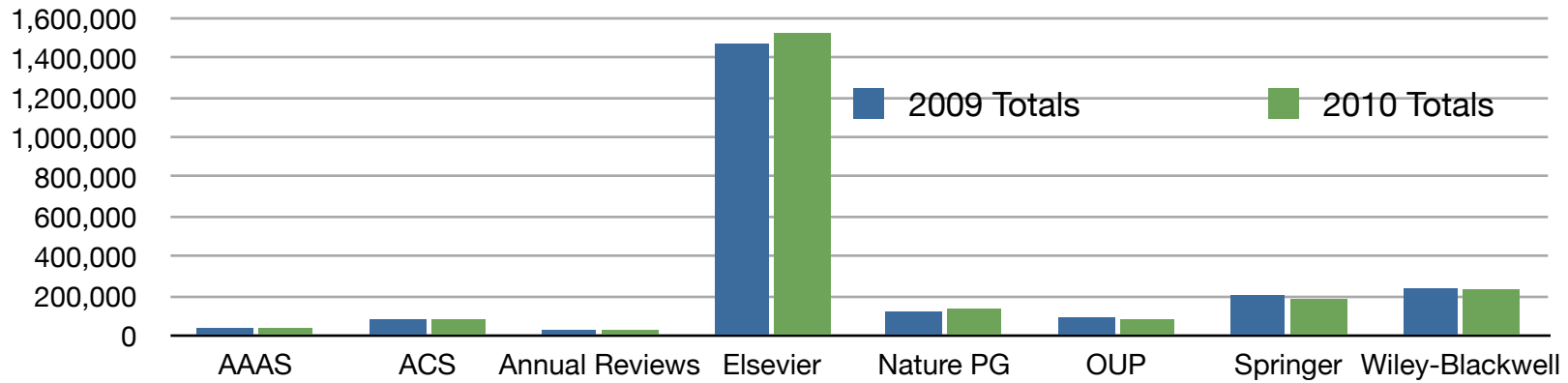
5.3. Summary of downloads across all publishers: 2009 - 2010

Table 3: Summary figures of downloads 2009 - 2010 across all publishers.

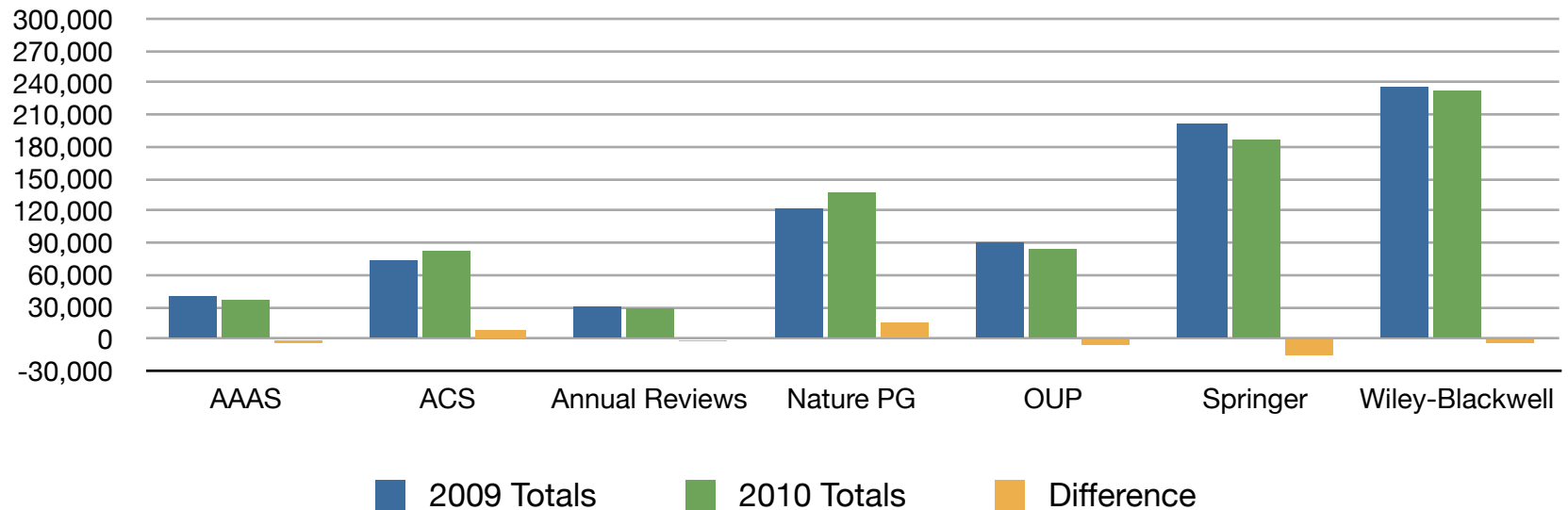
Institutions	AAAS	ACS	Annual Reviews	Elsevier	Nature PG	OUP	Springer	Wiley-Blackwell	2009 Total
2009 Totals	40,000	73,633	30,095	1,469,978	122,229	89,703	201,729	236,172	2,271,620
2010 Totals	36,277	81,931	28,319	1,525,075	136,944	83,826	186,215	232,148	2,310,735
Difference	-3,723	217	-1,776	55,097	14,715	-5,877	-15,514	-4,024	39,115
% Increase/ Decrease	-9%	11%	-6%	4%	12%	-7%	-8%	-2%	2%

The graphs on the next page show the trends in overall usage. Elsevier is in a category by itself with a number of downloads much superior to the other publishers.

Total downloads per publisher 2009 - 2010



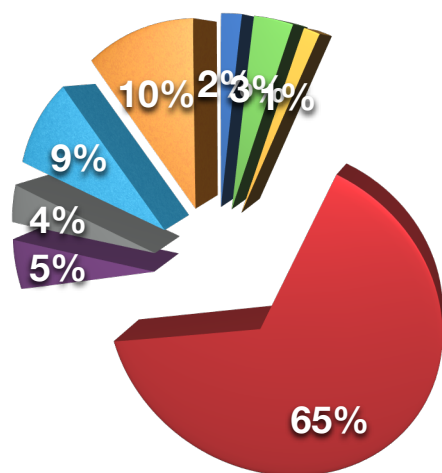
Total downloads per publisher 2009 - 2010 EXCLUDING Elsevier



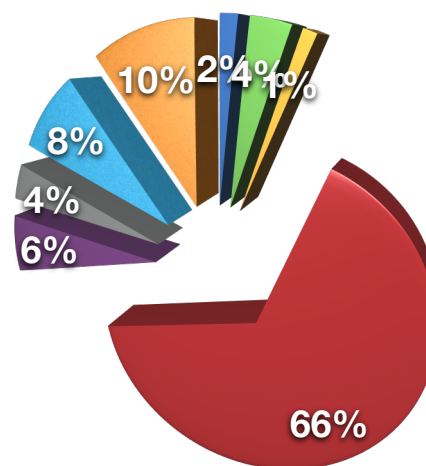
5.4. Percentage of downloads by publisher: 2009 - 2010

The percentage of downloads that each publisher represents remains constant from one year to the next.

Año 2009



Año 2010



- AAAS
- ACS
- Annual Reviews
- Elsevier
- Nature PG
- OUP
- Springer
- Wiley-Blackwell

5.5. Downloads and cost per download by publisher: 2009 - 2010

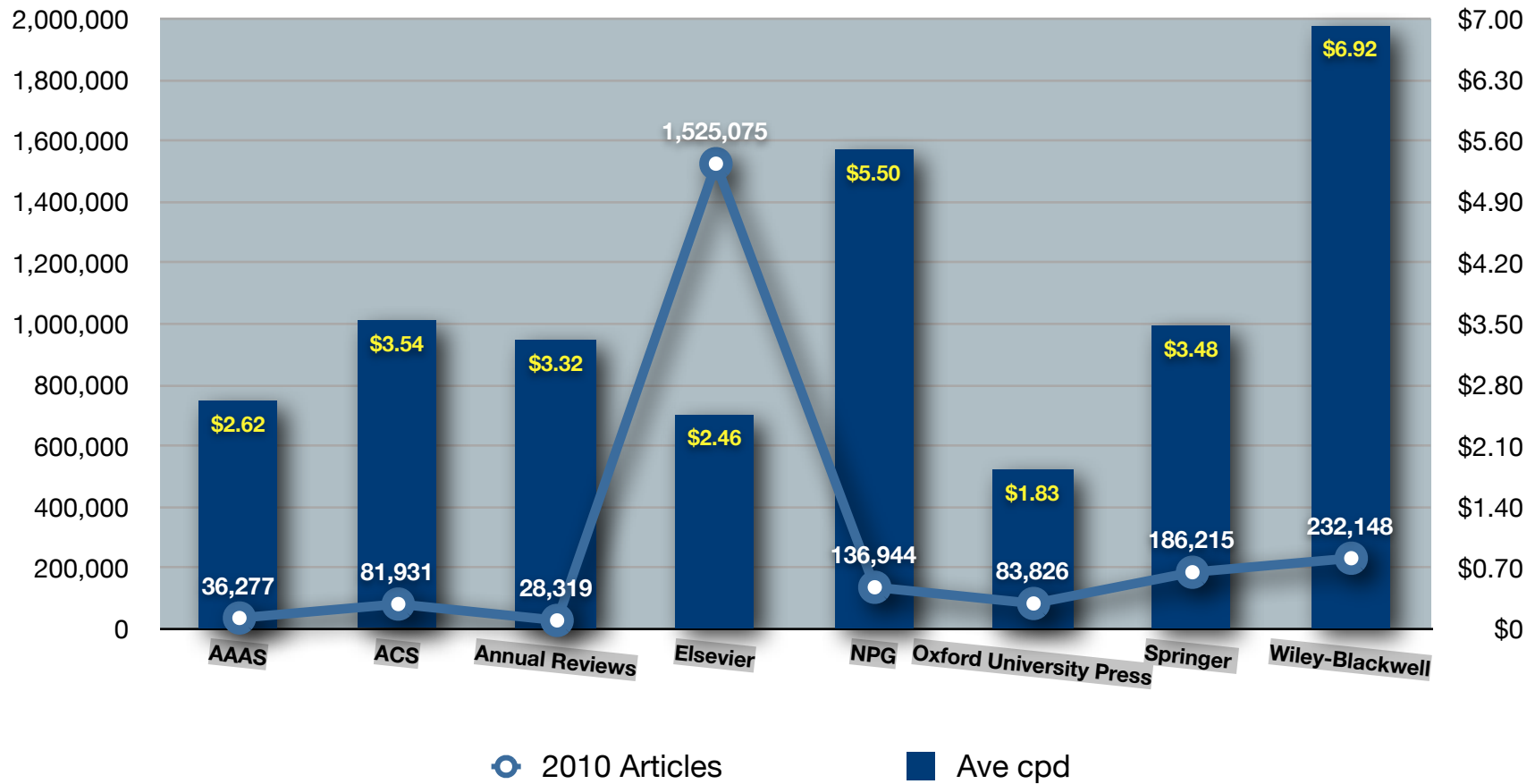
Downloads and cost per download by publisher for 2009 (data provided by CINCEL)



It can be noted that in Wiley-Blackwell, Wiley represents the unacceptably high cost per download.

The data in this graph comes from CINCEL and closely matches the data collected under this study with exception of ACS where CINCEL data shows 103,103 downloads and this study reports a correct figure of 73,633 downloads.

Downloads and cost per download by publisher 2010



Wiley-Blackwell shows as the most expensive per article download. It was not possible to separate Wiley from Blackwell as was done for the 2009 graph.

The publishers - individual summaries

6. THE PUBLISHERS - INDIVIDUAL SUMMARIES

AAAS (American Association for the Advancement of Science)

The AAAS CINCEL agreement is a Collection covering 1 title, Science, commencing September 2009 and running until August 2012.

Four institutions (UCHILE, PUC, UDEC, UACH) account for 72% of all usage in 2010. The same four institutions account for 70.6% of all usage in 2009 and 72.6% of all usage in 2008. In 2010 there are 12 institutions that account for almost 94% of the usage of the Science. It can be noted that with the exception of UCHILE, PUC and UDEC, no institutions are using AAAS content to any great extent.

Three institutions, UMCE, UDA and UTEM, have effectively not used the content at all in 2010 (23 or fewer downloads) and a further 10 institutions are hardly using the content (fewer than 500 downloads).

There is a consistent high number of turnaways of 2937, 3105 and 3043 accesses for the years 2008, 2009 and 2010 respectively in *Science Classic* and *Science Signaling*.

Although usage increased by 5% during 2009 over 2008, usage decreased by 9% for 2010 over 2009. In comparing 2010 usage against 2008 usage one can see that it has decreased by 5%.

American Chemical Society (ACS)

The ACS CINCEL agreement is a Collection covering 37 titles in each of the years 2008, 2009 and 2010.

In 2010, 4 institutions (UCHILE, PUC, UDEC & USACH) account for 70.92% of all usage. This compares with the same four in 2009 who accounted for 63.65% of the total usage. UCSC was the fifth highest user in 2009 with 8302 downloads, but has dropped to 21st place in 2010 with only 107 downloads. PUCV was the sixth highest user in 2009 with 3777 downloads but has dropped to 22nd placed in 2010 with only 108 downloads.

Usage has increased quite considerably at the following institutions;

UTFSM	(from 2833 downloads to 5065 downloads, or 79% increase)
UFRO	(from 1591 downloads to 3153 download, or 98% increase)
USERENA	(from 719 downloads to 1642 downloads, or 128% increase)
UCT	(from 467 downloads to 1084 downloads, or 132% increase)
UTA	(from 160 downloads to 789 downloads, or 393% increase)

Three institutions, UDA, UPLA and UMCE have effectively not used the content at all in 2010 and a further 17 institutions are not making extensive use of the content (below 5000 downloads in 2010).

All of the ACS titles have been consulted to a greater or lesser extent during 2010, ranging from 128 downloads for ACS Chemical Neuroscience to 9494 downloads for Journal of Agricultural and Food Chemistry for 2010. During 2009 only one title was not consulted and this was Biotechnology Progress. This title had 320 downloads during 2010.

Overall usage for 2010 is almost the same as compared with 2009 with a marginal increase of only 220 downloads or 0.3%. Since 2008, usage has increased has increased by 10,109 downloads or 14%

Annual Reviews (AR)

The AR CINCEL agreement is a Collection covering 35 titles in 2010 and 2009 and 34 titles in 2008.

From 2009 to 2010 the titles in the top ten are fairly constant.

Usage in the top 10 titles has reduced in numbers of articles downloaded from 17,307 in 2009 to 16,391 for 2010 (extrapolated). 58% of all the usage by the CINCEL consortium can be found in these top ten titles.

It can be noted that with the exception of UCHILE, PUC and UDEC, no institutions are using AR content to any great extent. Five institutions (UCHILE, PUC, UDEC, UACH and UNATOF) account for 74.5% of all usage.

The most shared titles were *Annual Review of Ecology, Evolution, and Systematics* and *Annual Review of Plant Biology*.

Estimated overall usage for 2010 has dropped 1,776 downloads or by 5.9%.

Elsevier

The Elsevier Freedom Collection CINCEL agreement is a Collection with the following number of titles for each agreement year (data provided by CINCEL):

FC2006	FC2007	FC2008	FC2009	FC2010
1818	1858	1956	2012	2059

The total usage of 132,297 full text downloads for the top ten titles in 2010 is just lower than the figure of 132,632 for the top ten titles in 2009, or a decrease of 0.36% which is a minimal change.

8.66% of the consortium's usage in 2010 can be found in these top ten titles. During 2009 the top ten titles accounted for 9.02% of all usage.

For 2010 it was found that 95 titles received a total of over 3,000 or more downloads each, representing 4.44% of all the titles available (2142) and 33.16% of all the usage for 2010.

The *Journal of Chromatography A* and *Cell* replace *Desalination* and *Water Research* in the top ten list of titles by usage in 2010 compared to 2009.

The total number of articles downloaded in 2010 has increased over 2009, showing a 3.8% increase and a 26% increase over 2008.

Three institutions, UCHILE, PUC and UDEC, account for 59.95% of the accesses in 2009 and the same institutions account for 59% of all of the usage in 2010. In 2008 they accounted for 63.18% of the total usage. The top 16 institutions in usage account for 97% of all the usage in 2010 and the same proportion in 2009 and 2008.

UACH has shown a significant increase in usage from 2009 to 2010 by 1.63%. Apart from this institution's increase in usage there was little change in usage patterns by the other institutions. All institutions used some of the content.

The average cost per download in 2010 has increased over 2009 from US\$ 2.33 to US\$ 2.46. The 2010 average cost per download is below the 2008 figure. **Overall the Elsevier content is providing good value for money when using a benchmark of US\$ 3.00.**

Estimated overall usage for 2010 has increased by 56,229 downloads over 2009, or nearly 4%. From 2008 to 2010 usage has increased by 25.8%.

Nature Publishing Group (NPG)

The Nature PG CINCEL agreement is a Collection covering 31 titles in 2010, 31 titles in 2009 and 31 titles in 2008.

Nature was in top place by usage in every institution (except UTEM with no usage) accounting for 33% of all the usage overall in 2010.

From 2008 to 2009 to 2010 the top 10 titles are fairly consistent with only one title different between 2009 and 2010. *Nature Reviews Cancer* which was in 8th place in 2009 has been replaced by *Nature Medicine* in 2010 (also in 8th place in 2010).

Nature Neuroscience and *Nature Medicine* are both 'new' titles added to the CINCEL agreement for 2008, now showing in the Top Ten by usage.

Usage of the top 10 titles in 2010 has increased from 82,778 in 2009 to 91,560 in 2010. This is a 10.6% increase. In 2010 67% of all the usage by the consortium can be found in these top 10 titles compared to 68% in 2009. Across the consortium, there were **28 different titles** appearing in the top ten by institution.

In 2010, five institutions account for 82.46% of the total usage that year. These are UCHILE, PUC, UDEC, UACH and USACH. In 2008 these same five institutions accounted for 81.32% of the total usage. One institution, UMCE, has not used the content at all in 2010.

Usage of the top 10 titles in 2010 has increased from 82,778 in 2009 to 91,560 in 2010. This is a 10.6% increase. Fourteen institutions with over 1,000 downloads or more in total for 2010 accounts for 98% of all usage.

In the case of UDEC it can be seen that 2 IP addresses account for over 50% of all their usage. The addresses are 152.74.20.54 (27.48% of usage) and 152.74.16.3 (26.83% of usage).

Overall usage for 2010 compared to 2009 has increased by 14,715 downloads or by 12.04%.

Oxford University Press (OUP)

The OUP CINCEL agreement is a Collection covering 208 titles in 2010, 206 titles in 2009 and 201 titles in 2008. This information was provided by CINCEL. A number of the titles are available on Open Access.

In 2010, 2 new titles appear in the top ten: *Bioinformatics*, and *Molecular Biology and Evolution* replacing *Annals of Botany* and *Rheumatology*. In 2010 there is also an increase in usage of the top ten titles by usage from 31.7% of the total downloads in 2009 to nearly 40% of the downloads in 2010.

In 2010, 3 institutions (UCHILE, PUC and UDEC) account for 66.63% of all usage. This compares with the same three in 2009 who accounted for 68.81% of the total usage. UACH appears to have increased their usage in 2010 and UTALCA has dropped some usage. Otherwise the picture is broadly similar, with a general trend of slightly lower usage in 2010 over 2009.

The most shared title is *Journal of Experimental Botany* which is also the highest used title (see table 2) with 17 institutions using this title to some extent.

Four institutions, UMCE and UTEM, UPLA and UDA have effectively not used the content at all in 2010 and a further 17 institutions are not making extensive use of the content (below 5000 downloads in 2010). The bottom 21 institutions (84% of the institutions within CINCEL) account for around 26 % of the total consortium usage for 2010 and 2009..

The average cost per download has increased for 2010 over 2009 but it can be seen that the average cost per download estimated for 2010 of US\$1.83 is showing good value in the context of other CINCEL agreements.

Estimated overall usage for 2010 compared to 2009 has dropped by 5,877 downloads or 6.6%.

Springer

The Springer CINCEL agreement is a Collection covering 1482 titles in 2010, 1496 titles in 2009 and 1755 titles in 2008. This information was provided by CINCEL.

From 2009 to 2010 the top 10 titles are fairly consistent with only one title different. *Planta* which was in 10th place in 2010 was in 19th place in 2009, and *Pediatric Nephrology* which was in 10th place in 2009 dropped to 13th place in 2010.

However, usage of the top 10 titles has reduced in numbers of articles downloaded from 23,595 in 2009 to 21,001 for 2010 (extrapolated). In 2010 11.28% of all of the usage by the consortium can be found in these top 10 titles.

For 2008, the top 10 list is mainly the same as in 2009 and 2010 but with *Diseases of the Colon and Rectum* in 3rd place (54th in 2009 and 111th in 2010) and *Diversity and Conservation* in 10th place (15th in 2009 and 11th in 2010).

In 2010 three institutions (PUC, UCHILE and UDEC) account for 62.96% of all usage. This has remained fairly constant over the three year period with the same three institutions accounting for 63.33% of usage in 2009 and 60.94% in 2008.

Two institutions, UMCE and UTEM, have effectively not used the content at all in 2010 and a further 13 institutions are not making extensive use of the content (below 5000 downloads in 2010).

Nine institutions have increased their usage for 2010 over 2009, although it should be noted that at least 14 institutions' usage has decreased for 2010, dramatically so at UDEC (down 17.34%), PUCV (down 24.16%), UTFSM (down 19.94%), UCSC (down 21.75%), ULAGOS (down 36.10%) and UCM (down 29.41%).

In 2010, 44 Springer titles in the CINCEL collection were not used at all. For 2009, 47 titles were not consulted

Estimated overall usage for 2010 has dropped by 15,507 downloads or by 8%.

Wiley Blackwell (WB)

The WB CINCEL agreement is a Collection covering approximately 1291 titles in total in 2010, 1266 titles in 2009 and 1428 titles in 2008.

The total number of articles downloaded in 2010 increased by 20% over 2009 and by 11% over 2008; however it went down by 11% from 2008 to 2009. The average cost per download in 2010 has dropped over 2009 due to increased usage yet it remains almost the same as in 2008.

Heptaology, Arthritis and Rheumatism, Veterinary Surgery, and International Endodontic Journal replace *Epilepsia, Journal of Oral Rehabilitation, Biotechnology and Bioengineering* and *Journal of the American Geriatrics Society* in the top ten list of titles by usage in 2010 compared to 2009.

The total usage of 19,306 full text downloads for the top ten titles in 2010 is higher than the figure of 17,815 for the top ten titles in 2009, or an increase of 8.4%.

8.3% of all the consortium's usage in 2010 can be found in these top ten titles. During 2009 the top ten titles accounted for 7.51% of all usage.

396 titles or around 20% of all titles have not had any accesses. Only around 5% of the titles, or 104 titles, have seen usage of over 500 downloads each in 2010. This averages at around 19 downloads in a year per title per institution. **By any criteria this cannot be considered good usage.**

Four institutions, UCHILE, PUC, UDEC and PUCV account for 68.21% of the accesses in 2009 and the same institutions plus UACH and UTALCA (so 6 institutions) account for 79.74% of all of the usage in 2010. UACH has shown a significant increase in usage from 2009 to 2010. Apart from this institution's increase in usage there is little change in usage patterns by other institutions.

UMCE and UTEM did not use the content at all in 2009. In 2010 UTEM and UDA made very low use of the content. Again UMCE made no use of the content.

The average cost per download, at US\$ 5.37 (based on actual downloads) or at US\$ 6.92 (based on extrapolated downloads from the earlier analysis) is very high for a consortium agreement.

Estimated overall usage for 2010 has dropped by 4,758 downloads over 2009, or around 2%.

The individual publisher details

7. THE INDIVIDUAL PUBLISHERS - DETAILED ANALYSIS

Publisher: AAAS (American Association for the Advancement of Science)

The main questions to answer were:

- 1 How the content is used by each institution
- 2 Which are the most active IP addresses?
- 3 What is the rate of turnaways?
- 4 What are the recommendations for AAAS based on the usage analysis?

THE CINCEL COLLECTION

The AAAS CINCEL agreement is a Collection covering 1 title, Science, commencing September 2009 and running until August 2012. Access also covers Universidad Andrés Bello. Access to Science was previously financed by a government grant and so usage statistics have been retrieved from January 2008, so that a comparison can be made over a three year period. Actual statistics were downloaded up until December 2010. In order to calculate a cost per download for the September 2010 to August 2011 period, ***usage for September to December 2010 was extrapolated to cover the full year to August 2011.***

Summary Figures

Please see Table 1 below for the summary figures. **Note that the download statistics for Table 1 run the subscription period of September to August to provide a realistic cost per download figure. The other tables run the calendar year of January to December.**

Table 1: AAAS: Overview Consortium Expenditure and Usage

Table 1: AAAS: Overview Consortium Expenditure and Usage		
Year	2009-10	2010-11
Total amount spent with this publisher	\$ 121,939.00	\$ 94,997.00
Total # Articles downloaded JR1	39,094	34,101
Average cost per download	\$3.12	\$2.79
# titles in CINCEL collection	1	1
Including Andrés Bello		
Total amount spent with this publisher	\$127,893	\$102,362
Total # Articles downloaded JR1	40,565	35,418
Average cost per download	\$3.15	\$2.89
# titles in CINCEL collection	1	1

The total number of articles downloaded in 2010 has reduced over 2009 as shown in Table 2 below:

Table 2: Overview of Consortium Usage over period 2008 - 2010

Table 2: Overview of Consortium Usage over period 2008 - 2010					
Institution	2008	2009	Inc/Dec % 08-09	2010	Inc/Dec % 09-10
UCHILE	10610	10822	2%	9490	-12%
PUC	9262	9646	4%	8822	-9%
UDEC	6113	5401	-12%	5147	-5%
UACH	1645	2359	43%	2682	14%
UTFSM	1372	2364	72%	1664	-30%
USACH	1004	1315	31%	1197	-9%
UV	1247	1074	-14%	1128	5%
UNATOF	779	739	-5%	938	27%
UCN	1458	1096	-25%	820	-25%
PUCV	910	874	-4%	816	-7%
UTALCA	501	674	35%	650	-4%
USERENA	344	501	46%	635	27%
UCT	463	436	-6%	386	-11%
UMAG	45	157	249%	308	96%
UNAP	302	397	31%	282	-29%
UFRO	556	489	-12%	277	-43%
ULAGOS	239	218	-9%	264	21%
UPLA	246	650	164%	248	-62%
UBB	186	176	-5%	138	-22%
UCSC	281	191	-32%	120	-37%
UCM	236	154	-35%	103	-33%
UTA	126	162	29%	96	-41%
UMCE	0	2	0%	23	1050%
UDA	34	31	-9%	22	-29%
UTEM	77	72	-6%	21	-71%
TOTAL	38,036	40,000	5%	36,277	-9%

Although usage increased by 5% during 2009 over 2008, usage decreased by 9% for 2010 over 2009. In comparing 2010 usage against 2008 usage one can see that it has decreased by 5%.

1. WHICH TITLES ARE MOST DEMANDED BY THE INSTITUTIONS?

1.1. Usage data at institutional level

The institutional usage data COUNTER JR1 reports for 2008, 2009 and 2010 are shown in the associated Excel files.

Using the COUNTER JR1 data, Institutional usage data templates were completed for 2008, 2009 and 2010 as shown in the associated Excel files. The following information was recorded and calculated in the template (spreadsheet) for each institution:

- Number of Full Text Article Requests for the year (PDF + HTML).
- Number of journal titles accessible
- Usage of Science (article requests)
- Where usage of Science fell into the following ranges:
 - 0 Requests (a 'Request' means a full text article downloaded)
 - 1-9 Requests
 - 10-49 Requests
 - 50-99 Requests
 - 100-199 Requests
 - 200-299 Requests
 - 300-399 Requests
 - 400-499 Requests
 - 500+ Requests
- Whether usage exceeded 3,000+ article requests

Each CINCEL institution can therefore review its own usage data sheet and template.

1.2. Usage across the Consortium

How CINCEL institutions are currently making use of Science can be seen in Table 3. Four institutions account for 72% of all usage in 2010. The same four institutions account for 70.6% of all usage in 2009 and 72.6% of all usage in 2008. In 2010 there are 12 institutions that account for almost 94% of the usage of the Science.

Table 3: AAAS: Institutional Usage of Science in 2008, 09 and 10

Table 3: AAAS: Institutional Usage of Science in 2008, 09 and 10						
Institution	2008% of total		2009% of total		2010% of total	
UCHILE	10610	27.89%	10822	27.06%	9490	26.16%
PUC	9262	24.35%	9646	24.12%	8822	24.32%
UDEC	6113	16.07%	5401	13.50%	5147	14.19%
UACH	1645	4.32%	2359	5.90%	2682	7.39%
UTFSM	1372	3.61%	2364	5.91%	1664	4.59%
USACH	1004	2.64%	1315	3.29%	1197	3.30%
UV	1247	3.28%	1074	2.69%	1128	3.11%
UNATOF	779	2.05%	739	1.85%	938	2.59%
UCN	1458	3.83%	1096	2.74%	820	2.26%
PUCV	910	2.39%	874	2.19%	816	2.25%
UTALCA	501	1.32%	674	1.69%	650	1.79%
USERENA	344	0.90%	501	1.25%	635	1.75%
UCT	463	1.22%	436	1.09%	386	1.06%
UMAG	45	0.12%	157	0.39%	308	0.85%
UNAP	302	0.79%	397	0.99%	282	0.78%
UFRO	556	1.46%	489	1.22%	277	0.76%
ULAGOS	239	0.63%	218	0.55%	264	0.73%
UPLA	246	0.65%	650	1.63%	248	0.68%
UBB	186	0.49%	176	0.44%	138	0.38%
UCSC	281	0.74%	191	0.48%	120	0.33%
UCM	236	0.62%	154	0.39%	103	0.28%

UTA	126	0.33%	162	0.41%	96	0.26%
UMCE	0	0.00%	2	0.01%	23	0.06%
UDA	34	0.09%	31	0.08%	22	0.06%
UTEM	77	0.20%	72	0.18%	21	0.06%
TOTAL	38,036		40,000		36,277	

It can be noted that with the exception of UCHILE, PUC and UDEC, no institutions are using AAAS content to any great extent.

Three institutions, UMCE, UDA and UTEM, have effectively not used the content at all in 2010 (23 or fewer downloads) and a further 10 institutions are hardly using the content (fewer than 500 downloads).

2. WHICH ARE THE MOST ACTIVE IP ADDRESSES?

AAAS was unable to provide a breakdown of usage data by IP address. It can be surmised that the most active IP addresses will relate to UCHILE, PUC and UDEC.

3. WHAT IS THE RATE OF TURNAWAYS?

A turnaway means the situation where a user has tried to access an article but cannot do so because the article is associated with a journal title that is not included in CINCEL's collection.

The turnaway reports have been requested from the publisher in connection with these titles:

Science Classic
 Science Signalling
 Science Translational Medicine (new title for 2009)

It is noted that U de Chile currently subscribes separately to Science Signalling and Science Translational Medicine outside the CINCEL agreement and therefore the turnaways reports should be considered in conjunction with the usage figures of the subscribing institutions to the same titles.

Users have tried to access the following titles in 2008, 2009 and 2010 as shown in Table 4:

Table 4 Denials of access to content outside the CINCEL consortium agreement

Table 4: Denials of access to content outside the CINCEL consortium agreement			
Title	Total 2008	Total 2009	Total 2010
Science Classic (Archives)	2460	1886	1610
Science Signaling	477	1212	1295
Science Translational Medicine (new 2009)		7	138
Totals	2937	3105	3043

The usage data analysis showed that U de Chile have their own separate subscriptions to Science Signaling and Science Translational Medicine

Table 5: Accesses to non-collection titles by UCHILE with their own subscription

Table 5: Accesses to non-collection titles by UCHILE with their own subscription			
Title	Total 2008	Total 2009	Total 2010
Science Signalling	858	805	757
Science Translational Medicine	0	4	8
Totals	858	809	765

Publisher: American Chemical Society (ACS)

The main questions to answer were:

- 1 Which titles are the most demanded by each institution?
- 2 Which titles don't get consulted?
- 3 Which are the most active IP addresses?
- 4 What is the rate of turnaways?

THE CINCEL COLLECTION

The ACS CINCEL agreement is a Collection covering 37 titles in each of the years 2008, 2009 and 2010. However, title matches between the lists were not exact and the analysis covers 37 in 2010, 36 titles in 2009 and 34 titles in 2008.

Limitations

ACS changed their usage statistics platform in mid November 2008. Statistics for 2008 were downloaded from the new platform which covers the six week period mid November to December 2008 for all institutions. Statistics were also downloaded from the old platform covering January to mid November 2008. The two sets of figures were combined together. However, due to time constraints the data was combined only for the 6 highest users in 2008; UCHILE, PUC, UDEC, USACH, PUCV and UNATOF.

Summary Figures:

Please see Table 1 below for the summary figures.

Table 1: ACS: Overview Consortium Expenditure and Usage

Table 1: ACS: Overview Consortium Expenditure and Usage			
Year	2008	2009	2010
Total amount spent with this publisher	\$260,036	\$273,000	\$290,100
Total # articles downloaded JR1	\$56,518	73,663	81,931
Average cost per download	\$4.60	\$3.71	\$3.54
# titles in CINCEL collection	34	36	37
Average cost per title	\$7,648.12	\$7,583.33	\$7,840.54

The usage data reports for 2008, 2009 and 2010 were provided by the publisher.

The total number of articles downloaded in 2009 was 73,663.

The total number of articles downloaded in 2010 has increased by 8,268 or 11% over 2009.

The average cost per download has increased by \$0.17 for 2010 over 2009

The average cost per title has increased by \$192.42 or 3% from 2008 to 2010.

1. WHICH TITLES ARE MOST DEMANDED BY THE INSTITUTIONS?

1.1. Usage Data at institutional level

The institutional usage data COUNTER JR1 reports for 2009 and 2010 are shown in the associated Excel files.

Using the COUNTER JR1 data, Institutional usage data templates were completed for 2009 and 2010 as shown in the associated Excel files.

The following information was recorded and calculated in the template (spreadsheet) for each institution:

- Number of Full Text Article Requests for the year (PDF + HTML).
- Number of journal titles accessible*
- The top 10 titles by usage (article requests)
- The usage of each of the 10 titles previously mentioned

-
- The percentage of use of each title of the total usage figure
 - The percentage of the total usage of the top 10 titles of the total usage figure
 - The number of journals with:
 - 0 Requests (a 'Request' means a full text article downloaded)
 - 1-9 Requests
 - 10-49 Requests
 - 50-99 Requests
 - 100-199 Requests
 - 200-299 Requests
 - 300-399 Requests
 - 400-499 Requests
 - 500+ Requests
 - A list of any titles with 3,000+ article requests

*The number of journals accessible for the publisher agreement was noted in the template as the same for each institution.

Each CINCEL institution can therefore review its own usage data sheet and template to see which titles were the most and least used at institutional level.

1.2. Top Ten Titles by Usage across the Consortium

For 2010 the titles in the top ten are shown in Table 2 below.

Table 2: 2010 Top 10 Journals		
Top 10 Journals 2010	Article Requests	% of Total Article Requests
Journal of Agricultural and Food Chemistry	9494	11.59%
Macromolecules	6862	8.38%
Journal of Chemical Information and Modeling	6820	8.32%
Journal of the American Chemical Society	6071	7.41%
Inorganic Chemistry	3813	4.65%
The Journal of Organic Chemistry	3411	4.16%
The Journal of Physical Chemistry B	3392	4.14%
Biochemistry	2689	3.28%
Environmental Science & Technology	2368	2.89%
The Journal of Physical Chemistry A	2242	2.74%
Total Downloads for Top 10	47,162	57.56%

The top ten titles for 2009 are shown in Table 3.

Table 3: 2009 Top 10 Journals		
Top 10 Journals	Article Requests	% of Total Article Requests
Journal of Agricultural and Food Chemistry	13049	17.72%
Journal of the American Chemical Society	5995	8.14%
Biochemistry	4325	5.87%
Environmental Science & Technology	4194	5.70%
Journal of Chemical & Engineering Data	3408	4.63%
The Journal of Physical Chemistry B	3132	4.25%
Industrial & Engineering Chemistry Research	3088	4.19%
The Journal of Organic Chemistry	3056	4.15%
Inorganic Chemistry	2766	3.76%
Chemical Reviews	2694	3.66%
Total Downloads for Top 10	45707	62.07%

The top ten titles for 2008 are shown in Table 3a.

Table 3a: 2008 Top 10 Journals		
Top 10 Journals	Article Requests	% of Total Article Requests
Journal of Agricultural and Food Chemistry	10084	14.04%
Journal of the American Chemical Society	4411	6.14%
Biochemistry	3244	4.52%
Environmental Science & Technology	2745	3.82%
Journal of Physical Chemistry B	2574	3.58%
Chemical Reviews	2570	3.58%
Inorganic Chemistry	2113	2.94%
Langmuir	1983	2.76%
Journal of Medicinal Chemistry	1977	2.75%
The Journal of Organic Chemistry	1937	2.70%
Total Downloads for Top 10	33638	46.83%

In 2010 3 new titles appear in the top 10; 2 in second and third most popular position (*Macromolecules* and *Journal of Chemical Information and Modelling*). *The Journal of Physical Chemistry A* appears in 10th place. These three titles replace *Journal of Chemical and Engineering Data*, *Industrial and Engineering Chemistry Research* and *Langmuir* which appeared in the 2009 Top 10.

In 2010 there is a decrease in usage of the top ten titles by usage from 62.07% of the total downloads in 2009 to 57.56% of the downloads in 2010.

1.3. Top Ten Most Shared Titles across the Consortium

Table 4 below shows the titles that are most shared by consortium members in 2010. The most shared titles give a view on which titles are the most commonly used across all institutions, regardless of usage.

The most shared title for 2010 is *Journal of Agricultural and Food Chemistry* which is also the highest used title for 2010 (see table 2) with 24 institutions using this title to some extent.

It was noted that there were a few titles that appear in the top ten shared titles list (Table 4) that don't appear in the top ten list of titles by usage for 2010 (Table 2), namely:

Analytical Chemistry
 Chemical Reviews
 Industrial & Engineering Chemistry Research
 Journal of Natural Products
 Journal of Physical Chemistry B

Table 4: 2010 Top Ten Most Shared Titles

Table 4: 2010 Top Ten Most Shared Titles		
2010 Top Ten Most Shared Titles	2010 Article Requests extrapolated	University using title and total
Journal of Agricultural and Food Chemistry	3236	UCHILE
Journal of Agricultural and Food Chemistry	2205	UDEC
Journal of Agricultural and Food Chemistry	2078	PUC
Journal of Agricultural and Food Chemistry	1231	PUCV
Journal of Agricultural and Food Chemistry	1040	USACH
Journal of Agricultural and Food Chemistry	761	UFRO
Journal of Agricultural and Food Chemistry	690	UTALCA
Journal of Agricultural and Food Chemistry	566	UACH
Journal of Agricultural and Food Chemistry	499	UTFSM
Journal of Agricultural and Food Chemistry	368	UBB
Journal of Agricultural and Food Chemistry	365	UV
Journal of Agricultural and Food Chemistry	270	UCT
Journal of Agricultural and Food Chemistry	187	UCN
Journal of Agricultural and Food Chemistry	164	USERENA

Journal of Agricultural and Food Chemistry	146	UNATOF
Journal of Agricultural and Food Chemistry	121	ULAGOS
Journal of Agricultural and Food Chemistry	82	UNAP
Journal of Agricultural and Food Chemistry	53	UCM
Journal of Agricultural and Food Chemistry	31	UTA
Journal of Agricultural and Food Chemistry	29	UTEM
Journal of Agricultural and Food Chemistry	19	UMAG
Journal of Agricultural and Food Chemistry	12	UDA
Journal of Agricultural and Food Chemistry	7	UCSC
Journal of Agricultural and Food Chemistry	3	UPLA
Journal of Agricultural and Food Chemistry	14163	24
Journal of the American Chemical Society	2298	UCHILE
Journal of the American Chemical Society	2086	UDEC
Journal of the American Chemical Society	2070	PUC
Journal of the American Chemical Society	1644	USACH
Journal of the American Chemical Society	591	PUCV
Journal of the American Chemical Society	402	UTALCA
Journal of the American Chemical Society	337	UTFSM
Journal of the American Chemical Society	219	UNATOF
Journal of the American Chemical Society	147	UTEM
Journal of the American Chemical Society	101	UACH
Journal of the American Chemical Society	76	UCN
Journal of the American Chemical Society	73	USERENA
Journal of the American Chemical Society	64	UFRO
Journal of the American Chemical Society	55	UV
Journal of the American Chemical Society	44	UNAP
Journal of the American Chemical Society	36	UMAG
Journal of the American Chemical Society	26	UBB
Journal of the American Chemical Society	9	ULAGOS
Journal of the American Chemical Society	6	UTA
Journal of the American Chemical Society	5	UCSC

Journal of the American Chemical Society	4	UDA	
Journal of the American Chemical Society	4	UPLA	
Journal of the American Chemical Society	10297		22
Environmental Science & Technology	828	PUC	
Environmental Science & Technology	826	UDEC	
Environmental Science & Technology	754	UCHILE	
Environmental Science & Technology	320	USACH	
Environmental Science & Technology	207	UTFSM	
Environmental Science & Technology	184	UACH	
Environmental Science & Technology	168	PUCV	
Environmental Science & Technology	152	UCN	
Environmental Science & Technology	150	UNATOF	
Environmental Science & Technology	131	UFRO	
Environmental Science & Technology	98	UV	
Environmental Science & Technology	82	UCT	
Environmental Science & Technology	56	UNAP	
Environmental Science & Technology	50	UCSC	
Environmental Science & Technology	48	UBB	
Environmental Science & Technology	43	USERENA	
Environmental Science & Technology	38	UTA	
Environmental Science & Technology	34	UCM	
Environmental Science & Technology	17	UTEM	
Environmental Science & Technology	13	ULAGOS	
Environmental Science & Technology	5	UDA	
Environmental Science & Technology	4204		21
Analytical Chemistry	817	UCHILE	
Analytical Chemistry	633	UDEC	
Analytical Chemistry	397	USACH	
Analytical Chemistry	261	PUCV	
Analytical Chemistry	199	UTFSM	
Analytical Chemistry	96	UACH	

Analytical Chemistry	91	UNATOF	
Analytical Chemistry	89	UCT	
Analytical Chemistry	62	UV	
Analytical Chemistry	45	UCN	
Analytical Chemistry	18	USERENA	
Analytical Chemistry	14	UTA	
Analytical Chemistry	5	ULAGOS	
Analytical Chemistry	4	UMAG	
Analytical Chemistry	3	UCSC	
Analytical Chemistry	2	UDA	
Analytical Chemistry	1	UPLA	
Analytical Chemistry	2737		17
The Journal of Organic Chemistry	1499	PUC	
The Journal of Organic Chemistry	1359	UCHILE	
The Journal of Organic Chemistry	714	UDEC	
The Journal of Organic Chemistry	363	PUCV	
The Journal of Organic Chemistry	337	USACH	
The Journal of Organic Chemistry	187	UTALCA	
The Journal of Organic Chemistry	173	UTFSM	
The Journal of Organic Chemistry	71	UCN	
The Journal of Organic Chemistry	48	UACH	
The Journal of Organic Chemistry	47	UNAP	
The Journal of Organic Chemistry	27	UBB	
The Journal of Organic Chemistry	16	USERENA	
The Journal of Organic Chemistry	11	UMAG	
The Journal of Organic Chemistry	3	UTA	
The Journal of Organic Chemistry	4855		14
Chemical Reviews	748	UCHILE	
Chemical Reviews	746	PUC	
Chemical Reviews	564	UDEC	
Chemical Reviews	321	PUCV	

Chemical Reviews	99	UTALCA	
Chemical Reviews	68	UV	
Chemical Reviews	60	UCN	
Chemical Reviews	38	UFRO	
Chemical Reviews	38	UNAP	
Chemical Reviews	29	UTEM	
Chemical Reviews	19	UCT	
Chemical Reviews	15	USERENA	
Chemical Reviews	4	UMAG	
Chemical Reviews	2	UCM	
Chemical Reviews	2751		14
Industrial & Engineering Chemistry Research	1043	UDEC	
Industrial & Engineering Chemistry Research	282	UNATOF	
Industrial & Engineering Chemistry Research	211	PUCV	
Industrial & Engineering Chemistry Research	165	UTFSM	
Industrial & Engineering Chemistry Research	45	UFRO	
Industrial & Engineering Chemistry Research	37	UCT	
Industrial & Engineering Chemistry Research	33	USERENA	
Industrial & Engineering Chemistry Research	28	UBB	
Industrial & Engineering Chemistry Research	8	UTA	
Industrial & Engineering Chemistry Research	6	UMAG	
Industrial & Engineering Chemistry Research	4	UCM	
Industrial & Engineering Chemistry Research	3	ULAGOS	
Industrial & Engineering Chemistry Research	2	UCSC	
Industrial & Engineering Chemistry Research	2	UDA	
Industrial & Engineering Chemistry Research	1869		14
Biochemistry	1198	UCHILE	
Biochemistry	722	PUC	
Biochemistry	653	UDEC	
Biochemistry	597	USACH	
Biochemistry	277	PUCV	

Biochemistry	187	UACH
Biochemistry	92	UTALCA
Biochemistry	68	UV
Biochemistry	41	UNAP
Biochemistry	40	UFRO
Biochemistry	18	UCSC
Biochemistry	5	UCM
Biochemistry	1	ULAGOS
Biochemistry	3899	13
The Journal of Physical Chemistry B	1004	UCHILE
The Journal of Physical Chemistry B	612	UDEC
The Journal of Physical Chemistry B	431	USACH
The Journal of Physical Chemistry B	158	UTALCA
The Journal of Physical Chemistry B	126	UNATOF
The Journal of Physical Chemistry B	90	UACH
The Journal of Physical Chemistry B	56	UTEM
The Journal of Physical Chemistry B	30	USERENA
The Journal of Physical Chemistry B	18	UV
The Journal of Physical Chemistry B	7	UCSC
The Journal of Physical Chemistry B	3	UTA
The Journal of Physical Chemistry B	2	UDA
The Journal of Physical Chemistry B	2537	12
Journal of Natural Products	129	UNATOF
Journal of Natural Products	113	UTALCA
Journal of Natural Products	112	UTFSM
Journal of Natural Products	93	UBB
Journal of Natural Products	93	UFRO
Journal of Natural Products	37	UNAP
Journal of Natural Products	33	UV
Journal of Natural Products	32	UMAG
Journal of Natural Products	14	UCT

Journal of Natural Products	3	UCM	
Journal of Natural Products	2	ULAGOS	
Journal of Natural Products	661		11

The total usage across these 10 titles amounts to 47,973 downloads out of a total in 2010 of 81,934, or 59% of the total.

1.4. Usage by Institution

How CINCEL institutions are currently making use of the ACS content is as shown below in Table 5.

In 2010, 4 institutions (UCHILE, PUC , UDEC & USACH) account for 70.92% of all usage. This compares with the same four in 2009 who accounted for 63.65% of the total usage. PUCV was the sixth highest user in 2009 with 3777 downloads but has dropped to 22nd placed in 2010 with only 108 downloads.

Usage has increased quite considerably at the following institutions;

UTFSM
 UFRO
 USERENA
 UCT
 UTA

Table 5: Institutional Usage of ACS content in 2010 , 2009 and 2010

Table 5: Institutional Usage of OUP content in 2010, 2009 and 2008								
2010			2009			2008		
Institutions	2010 article downloads	% of total	Institutions	2009 article downloads	% of total	Institutions	2008 article downloads	% of total
UCHILE	18849	23.01%	UCHILE	19432	23.78%	UCHILE	16240	28.73%
PUC	16453	20.08%	PUC	13204	16.16%	PUC	10570	18.70%
UDEC	13623	16.63%	UDEC	11076	13.55%	UDEC	7654	13.54%
USACH	9180	11.20%	USACH	8302	10.16%	USACH	7130	12.62%
UTFSM	5065	6.18%	PUCV	3777	10.16%	PUCV	2543	4.50%
UFRO	3153	3.85%	UNATOF	2997	4.62%	UNATOF	2105	3.72%
UTALCA	2858	3.49%	UTALCA	2907	3.67%	UTFSM	1646	2.91%
UNATOF	2641	3.22%	UTFSM	2833	3.56%	UTALCA	1278	2.26%
UACH	1829	2.23%	UCN	1749	3.47%	UACH	1164	2.06%
USERENA	1642	2.00%	UFRO	1591	2.14%	UCN	1071	1.89%
UCN	1208	1.47%	UACH	1546	1.95%	UFRO	897	1.59%
UCT	1084	1.32%	UBB	756	1.89%	UV	828	1.47%
UV	1017	1.24%	UV	736	0.93%	USERENA	770	1.36%
UTA	789	0.96%	USERENA	719	0.90%	UBB	762	1.35%
UNAP	646	0.79%	UCT	467	0.88%	UCT	428	0.76%
UTEM	610	0.74%	UTEM	354	0.57%	UNAP	270	0.48%
UBB	580	0.71%	UNAP	236	0.43%	UTEM	244	0.43%
UCM	169	0.21%	UCSC	221	0.29%	ULAGOS	217	0.38%
ULAGOS	136	0.17%	ULAGOS	211	0.26%	UCM	215	0.38%
UMAG	132	0.16%	UMAG	173	0.21%	UTA	207	0.37%
PUCV	108	0.13%	UCM	162	0.20%	UCSC	156	0.28%
UCSC	107	0.13%	UTA	160	0.20%	UMAG	99	0.18%
UDA	38	0.05%	UDA	24	0.03%	UDA	20	0.04%
UPLA	14	0.02%	UPLA	0	0.00%	UPLA	4	0.01%
UMCE	0	0.00%	UMCE	0	0.00%	UMCE	0	0.00%
Totals	81,931	100.00%	Totals	73,663	100.00%	Totals	56,518	100.00%

It can be noted that with the exception of UCHILE, PUC, UDEC and USACH, no institutions are using the ACS content to any great extent.

Three institutions, UDA, UPLA and UMCE have effectively not used the content at all in 2010 and a further 17 institutions are not making extensive use of the content (below 5000 downloads in 2010). Table 6, below, shows the usage for these bottom 20 institutions (80% of the institutions within CINCEL) which accounts for 22.90% of the total consortium usage for 2010 and 26.19% of total consortium usage in 2009.

Table 6: Institutional Usage of ACS content in 2010 and 2009 (bottom 20 institutions)

Table 6: Institutional Usage of ACS content in 2010 and 2009 (bottom 20 institutions)					
2010			2009		
Institutions	2010 downloads	% of total	Institutions	2009 downloads	% of total
UFRO	3153	3.85%	UNATOF	2997	3.67%
UTALCA	2858	3.49%	UTALCA	2907	3.56%
UNATOF	2641	3.22%	UTFSM	2833	3.47%
UACH	1829	2.23%	UCN	1749	2.14%
USERENA	1642	2.00%	UFRO	1591	1.95%
UCN	1208	1.47%	UACH	1546	1.89%
UCT	1084	1.32%	UBB	756	0.93%
UV	1017	1.24%	UV	736	0.90%
UTA	789	0.96%	USERENA	719	0.88%
UNAP	646	0.79%	UCT	467	0.57%
UTEM	610	0.74%	UTEM	354	0.43%
UBB	580	0.71%	UNAP	236	0.29%
UCM	169	0.21%	UCSC	221	0.27%
ULAGOS	136	0.17%	ULAGOS	211	0.26%
UMAG	132	0.16%	UMAG	173	0.21%

PUCV	108	0.13%	UCM	162	0.20%
UCSC	107	0.13%	UTA	160	0.20%
UDA	38	0.05%	UDA	24	0.03%
UPLA	14	0.02%	UPLA	0	0.00%
UMCE	0	0.00%	UMCE	0	0.00%
TOTAL	18761	22.90%	TOTAL	21398	26.19%

2. WHICH TITLES DON'T GET CONSULTED?

All of the ACS titles have been consulted to a greater or lesser extent during 2010, ranging from 128 downloads for ACS Chemical Neuroscience to 9494 downloads for Journal of Agricultural and Food Chemistry for 2010. During 2009 only one title was not consulted and this was Biotechnology Progress. This title had 320 downloads during 2010.

Table 7 below shows the breakdown of usage by the number of articles 'requested' from a particular journal. An article request is the same as a full text download (HTML or PDF).

Table 7: Number of Journal titles with these number of requests in 2010 in each Tier

Table 7: Number of Journal titles with these number of requests in 2010 in each Tier		
Tier	Number of Journal titles with these number of requests in 2010 in each Tier	% of all titles in CINCEL Collection
0 Requests	0	0.00%
1-9 Requests	0	0.00%
10-49 Requests	0	0.00%
50-99 Requests	0	0.00%

100-199 Requests	1	2.70%
200-299 Requests	1	2.70%
300-399 Requests	2	5.41%
400-499 Requests	0	0.00%
500+ Requests	33	89.19%
Total:	37	100.00%

3. WHICH ARE THE MOST ACTIVE IP ADDRESSES?

ACS was unable to provide a breakdown of usage data by IP address.

It can be surmised that the most active IP addresses will relate to UCHILE, PUC , UDEC and USACH.

4. What is the rate of turnaways?

A turnaway means the situation where a user has tried to access an article but cannot do so because the article is associated with a journal title that is not included in CINCEL's collection.

ACS does not provide reports on the number of turnaways. However, statistics were produced by ACS for titles not included in the CINCEL agreement, some of which received usage.

For 2010, statistics have been received for 10 titles not in the CINCEL Collection. These titles received a total number of 6,790 downloads.

It should be noted that these titles may be subscribed to by individual institutions outside of the CINCEL agreement. Those titles marked with a * are previous titles of journals included in the CINCEL Collection. *ACS Catalysis* is a new title launching in 2011.

Table 8: Top 10 Non Collection titles for 2010

Table 8: Top 10 Non Collection titles for 2010	
2010	
Title	# Downloads
Journal of Chemical Education	3547
The Journal of Physical Chemistry *	1743
Industrial & Engineering Chemistry *	615
Industrial & Engineering Chemistry Process Design and Development *	273
Industrial & Engineering Chemistry Fundamentals *	193
The Journal of Physical Chemistry Letters	187
Industrial & Engineering Chemistry Product Research and Development *	98
ACS Medicinal Chemistry Letters	71
Chemical & Engineering News	61
ACS Catalysis	2
TOTAL	6790

Publisher: Annual Reviews (AR)

The main questions to answer were:

- 1 Which titles are the most demanded by each institution?
- 2 Which titles don't get consulted?
- 3 Which are the most active IP addresses?
- 4 What is the rate of turnaways?
- 5 What are the recommendations for Annual Reviews based on the usage analysis?

THE CINCEL COLLECTION

The AR CINCEL agreement is a Collection covering 35 titles in 2010 and 2009 and 34 titles in 2008. Six titles were not included in the CINCEL agreement in 2010 or previously. These were:

Annual Review of Chemical and Biomolecular Engineering
Annual Review of Condensed Matter Physics
Annual Review of Economics
Annual Review of Financial Economics
Annual Review of Food Science and Technology
Annual Review of Resource Economics

It was noted that some of the above titles are subscribed to separately by some CINCEL member institutions. Any usage data relating to these titles will be considered in Section 4 below.

Limitations

Mainly due to timing, only data relating to 2009 and 2010 has been collected and analyzed.

Summary Figures

Please see Table 1 below for the summary figures.

Table 1: Annual Reviews: Overview Consortium Expenditure and Usage			
Year	2008	2009	2010*
Total amount spent with this publisher	\$94,500.00	\$101,850.00	\$93,983.00
Total # Articles downloaded JR1	29,806	29,736	28,382
Average cost per download	\$3.17	\$3.43	\$3.32
# titles in CINCEL collection	34	35	35
Average cost per title	US\$ 2,779.41	US\$ 2,910.00	US\$ 2,685.23

*2010 usage is extrapolated for the year

Please note that the 2008 data shown in Table 1 relates purely to information provided by CINCEL.

The total number of articles downloaded in 2010 is predicted to reduce over 2009. However, since CINCEL paid less in 2010 for the content, then the average cost per download has reduced in 2010. The average cost per download in **2010** is predicted to be **US\$3.32**. This is down on the 2009 figure.

The content has remained the same from 2009 to 2010. The average cost per title has reduced in 2010 from the average cost per title in 2008 by 3%.

1. WHICH TITLES ARE MOST DEMANDED BY THE INSTITUTIONS?

1.1. Usage data at institutional level

The institutional usage data COUNTER JR1 reports for 2009 and 2010 are shown in the associated Excel files.

Using the COUNTER JR1 data, Institutional usage data templates were completed for 2009 and 2010 as shown in the associated Excel files. The following information was recorded and calculated in the template (spreadsheet) for each institution:

- Number of Full Text Article Requests for the year (PDF + HTML). The total figure for 2010 was extrapolated.

-
- Number of journal titles accessible*
 - The top 10 titles by usage (article requests)
 - The usage of each of the 10 titles previously mentioned
 - The percentage of use of each title of the total usage figure
 - The percentage of the total usage of the top 10 titles of the total usage figure
 - The number of journals with:
 - 0 Requests (a 'Request' means a full text article downloaded)
 - 1-9 Requests
 - 10-49 Requests
 - 50-99 Requests
 - 100-199 Requests
 - 200-299 Requests
 - 300-399 Requests
 - 400-499 Requests
 - 500+ Requests
 - A list of any titles with 3,000+ article requests

*The number of journals accessible for the publisher agreement was noted in the template as the same for each institution.

It was known that some institutions may subscribe separately outside the agreement to other titles - these titles would appear in the 'non-collection' tab of the spreadsheet for that institution.

Each CINCEL institution can therefore review its own usage data sheet and template to see which titles were the most and least used at institutional level.

1.2. Top Ten Titles by Usage across the Consortium

From 2009 to 2010 the titles in the top ten are fairly constant. Please see Tables 2 and 3.

Table 2: 2010 TOP 10 JOURNALS	2010 Article Requests (extrapolated)	% of Total Article Requests
Annual Review of Plant Biology	2808	10%
Annual Review of Biochemistry	1984	7%
Annual Review of Ecology, Evolution, and Systematics	1925	7%
Annual Review of Microbiology	1804	6%
Annual Review of Psychology	1559	5%
Annual Review of Physiology	1408	5%
Annual Review of Neuroscience	1381	5%
Annual Review of Entomology	1277	4%
Annual Review of Immunology	1183	4%
Annual Review of Medicine	1063	4%
Total Downloads for Top 10 in 2010	16,391	58%

Table 3: 2009 TOP 10 JOURNALS	2009 Article Requests	% of Total Article Requests
Annual Review of Plant Biology	2488	8%
Annual Review of Ecology, Evolution, and Systematics	2362	8%
Annual Review of Biochemistry	2066	7%
Annual Review of Psychology	2041	7%
Annual Review of Microbiology	1822	6%
Annual Review of Physiology	1556	5%
Annual Review of Neuroscience	1347	5%
Annual Review of Phytopathology	1246	4%
Annual Review of Entomology	1224	4%
Annual Review of Genetics	1155	4%
Total Downloads for Top 10 in 2009	17,307	58%

It was noted that in 2010 Immunology and Medicine have taken priority over Genetics and Phytopathology. However, usage in the top 10 titles has reduced in numbers of articles downloaded from 17,307 in 2009 to 16,391 for 2010 (extrapolated). 58% of all the usage by the CINCEL consortium can be found in these top ten titles.

1.3. Top Ten Most Shared Titles across the Consortium

Table 4 below shows the titles sorted by which are most shared by CINCEL members in 2010.

Table 4: Number of universities accessing a title during 2010

Title	# Universities using this title
Annual Review of Ecology, Evolution, and Systematics	18
Annual Review of Plant Biology	18
Annual Review of Microbiology	15
Annual Review of Psychology	15
Annual Review of Biochemistry	13
Annual Review of Physiology	12
Annual Review of Entomology	11
Annual Review of Sociology	10
Annual Review of Neuroscience	9
Annual Review of Nutrition	9
Annual Review of Anthropology	8
Annual Review of Cell and Developmental Biology	8
Annual Review of Immunology	8
Annual Review of Pharmacology and Toxicology	8
Annual Review of Phytopathology	8
Annual Review of Genetics	7
Annual Review of Medicine	7
Annual Review of Earth and Planetary Sciences	6
Annual Review of Fluid Mechanics	5

Annual Review of Astronomy and Astrophysics	4
Annual Review of Environment and Resources	4
Annual Review of Marine Science	4
Annual Review of Biophysics	3
Annual Review of Pathology: Mechanisms of Disease	3
Annual Review of Political Science	3
Annual Review of Public Health	3
Annual Review of Biomedical Engineering	2
Annual Review of Clinical Psychology	2
Annual Review of Materials Research	2
Annual Review of Physical Chemistry	2
Annual Review of Analytical Chemistry	1
Annual Review of Law and Social Science	1
Annual Review of Nuclear and Particle Science	1

The most shared titles were *Annual Review of Ecology, Evolution, and Systematics* and *Annual Review of Plant Biology*.

It was noted that there were two titles that appear in the top ten shared titles list (Table 4) that don't appear in the top ten list of titles by usage for 2010 (Table 2), namely:

Annual Review of Sociology

Annual Review of Nutrition

For information about which universities access each title please Table 4a below.

Table 4a : Top Ten Most Shared Titles in 2010 - Annual Reviews		
Title	2010 Usage	University
Annual Review of Ecology, Evolution, and Systematics	262	PUC
Annual Review of Ecology, Evolution, and Systematics	25	PUVC
Annual Review of Ecology, Evolution, and Systematics	270	UACH
Annual Review of Ecology, Evolution, and Systematics	26	UCT
Annual Review of Ecology, Evolution, and Systematics	48	UCSC
Annual Review of Ecology, Evolution, and Systematics	11	UCM
Annual Review of Ecology, Evolution, and Systematics	106	UCN
Annual Review of Ecology, Evolution, and Systematics	104	UNATOF
Annual Review of Ecology, Evolution, and Systematics	1	UDA
Annual Review of Ecology, Evolution, and Systematics	372	UCHILE
Annual Review of Ecology, Evolution, and Systematics	380	UDEC
Annual Review of Ecology, Evolution, and Systematics	41	ULAGOS
Annual Review of Ecology, Evolution, and Systematics	23	UMAG
Annual Review of Ecology, Evolution, and Systematics	4	UTA
Annual Review of Ecology, Evolution, and Systematics	40	UV
Annual Review of Ecology, Evolution, and Systematics	17	UFRO
Annual Review of Ecology, Evolution, and Systematics	155	USERENA
Annual Review of Ecology, Evolution, and Systematics	4	UBB
Annual Review of Ecology, Evolution, and Systematics	18	
Annual Review of Plant Biology	534	PUC
Annual Review of Plant Biology	97	PUVC
Annual Review of Plant Biology	136	UACH
Annual Review of Plant Biology	16	UCT
Annual Review of Plant Biology	8	UCSC
Annual Review of Plant Biology	28	UCM
Annual Review of Plant Biology	13	UNAP
Annual Review of Plant Biology	10	UTEM
Annual Review of Plant Biology	172	UNATOF
Annual Review of Plant Biology	698	UCHILE
Annual Review of Plant Biology	574	UDEC
Annual Review of Plant Biology	64	UMAG
Annual Review of Plant Biology	60	USACH

Annual Review of Plant Biology	146	UTALCA
Annual Review of Plant Biology	10	UTA
Annual Review of Plant Biology	112	UFRO
Annual Review of Plant Biology	90	USERENA
Annual Review of Plant Biology	14	UBB
Annual Review of Plant Biology	18	
Annual Review of Microbiology	132	PUVC
Annual Review of Microbiology	127	UACH
Annual Review of Microbiology	13	UCT
Annual Review of Microbiology	16	UCSC
Annual Review of Microbiology	30	UCN
Annual Review of Microbiology	32	UNAP
Annual Review of Microbiology	85	UTEM
Annual Review of Microbiology	98	UNATOF
Annual Review of Microbiology	452	UCHILE
Annual Review of Microbiology	353	UDEC
Annual Review of Microbiology	11	ULAGOS
Annual Review of Microbiology	6	UMAG
Annual Review of Microbiology	95	USACH
Annual Review of Microbiology	49	UTALCA
Annual Review of Microbiology	71	UFRO
Annual Review of Microbiology	15	
Annual Review of Psychology	347	PUC
Annual Review of Psychology	172	PUVC
Annual Review of Psychology	41	UCT
Annual Review of Psychology	32	UCSC
Annual Review of Psychology	52	UCN
Annual Review of Psychology	10	UNAP
Annual Review of Psychology	17	UTEM
Annual Review of Psychology	349	UCHILE
Annual Review of Psychology	176	UDEC
Annual Review of Psychology	5	ULAGOS
Annual Review of Psychology	55	USACH
Annual Review of Psychology	52	UTALCA
Annual Review of Psychology	115	UTA
Annual Review of Psychology	60	UV
Annual Review of Psychology	16	USERENA
Annual Review of Psychology	15	

Annual Review of Biochemistry	302	PUC
Annual Review of Biochemistry	30	PUVC
Annual Review of Biochemistry	211	UACH
Annual Review of Biochemistry	11	UCSC
Annual Review of Biochemistry	30	UCN
Annual Review of Biochemistry	248	UNATOF
Annual Review of Biochemistry	636	UCHILE
Annual Review of Biochemistry	341	UDEC
Annual Review of Biochemistry	2	UMAG
Annual Review of Biochemistry	12	UPLA
Annual Review of Biochemistry	42	USACH
Annual Review of Biochemistry	48	UTALCA
Annual Review of Biochemistry	17	UFRO
Annual Review of Biochemistry	13	
Annual Review of Physiology	314	PUC
Annual Review of Physiology	36	PUVC
Annual Review of Physiology	157	UACH
Annual Review of Physiology	29	UCM
Annual Review of Physiology	25	UCN
Annual Review of Physiology	13	UNAP
Annual Review of Physiology	95	UNATOF
Annual Review of Physiology	442	UCHILE
Annual Review of Physiology	4	ULAGOS
Annual Review of Physiology	8	UPLA
Annual Review of Physiology	29	USACH
Annual Review of Physiology	112	UV
Annual Review of Physiology	12	
Annual Review of Entomology	23	PUVC
Annual Review of Entomology	216	UACH
Annual Review of Entomology	26	UCT
Annual Review of Entomology	17	UNAP
Annual Review of Entomology	222	UDEC
Annual Review of Entomology	4	ULAGOS
Annual Review of Entomology	7	UMAG
Annual Review of Entomology	49	UTALCA
Annual Review of Entomology	53	UTA
Annual Review of Entomology	49	UFRO
Annual Review of Entomology	49	USERENA

Annual Review of Entomology		11
Annual Review of Sociology	349	PUC
Annual Review of Sociology	244	UCT
Annual Review of Sociology	25	UCN
Annual Review of Sociology	1	UMCE
Annual Review of Sociology	8	UNAP
Annual Review of Sociology	209	UDEC
Annual Review of Sociology	5	UPLA
Annual Review of Sociology	5	UTA
Annual Review of Sociology	22	USERENA
Annual Review of Sociology	4	UBB
Annual Review of Sociology		10
Annual Review of Neuroscience	472	PUC
Annual Review of Neuroscience	50	PUVC
Annual Review of Neuroscience	96	UACH
Annual Review of Neuroscience	24	UCM
Annual Review of Neuroscience	2	UDA
Annual Review of Neuroscience	452	UCHILE
Annual Review of Neuroscience	6	UPLA
Annual Review of Neuroscience	37	UTALCA
Annual Review of Neuroscience	60	UV
Annual Review of Neuroscience		9
Annual Review of Nutrition	5	UCSC
Annual Review of Nutrition	32	UCN
Annual Review of Nutrition	6	UNAP
Annual Review of Nutrition	428	UCHILE
Annual Review of Nutrition	5	ULAGOS
Annual Review of Nutrition	2	UMAG
Annual Review of Nutrition	61	UV
Annual Review of Nutrition	24	UFRO
Annual Review of Nutrition	6	UBB
Annual Review of Nutrition		9

1.4. Usage by Institution

How CINCEL institutions are currently making use of the AR content can be seen in Table 5. Five institutions account for 74.5% of all usage .

Table 5: Institutional usage of Annual Reviews content in 2010 and 2009

Institutions	2010 estimated Downloads	% of total	2009 downloads	% of total
UCHILE	7,799	27.54%	9,138	30.36%
PUC	5,858	20.69%	5,611	18.64%
UDEC	4,055	14.32%	3,430	11.40%
UACH	2,056	7.26%	2,051	6.82%
UNATOF	1,331	4.70%	1,908	6.34%
UV	958	3.38%	1,422	4.73%
USACH	895	3.16%	937	3.11%
PUCV	829	2.93%	691	2.30%
UTALCA	752	2.66%	1,032	3.43%
UFRO	595	2.10%	858	2.85%
Norte	574	2.03%	533	1.77%
UCT	571	2.02%	173	0.57%
USERENA	493	1.74%	592	1.97%
UTFSM	283	1.00%	189	0.63%
UCM	274	0.97%	317	1.05%
UTA	233	0.82%	171	0.57%
UNAP	180	0.64%	318	1.06%
UCSC	175	0.62%	243	0.81%
UMAG	151	0.53%	116	0.39%
ULAGOS	102	0.36%	183	0.61%
UBB	83	0.29%	149	0.50%
UPLA	53	0.19%	1	0.00%
UDA	17	0.06%	22	0.07%
UMCE	1	0.00%	0	0.00%
UTEM	1	0.00%	10	0.03%
Totals	28,319	100.00%	30,095	100.00%

It can be noted that with the exception of UCHILE, PUC and UDEC, no institutions are using AR content to any great extent.

Estimated overall usage for 2010 has dropped very little by only 1,776 downloads or by 0.06%.

Two institutions, UMCE and UTEM, have effectively not used the content at all in 2010 and a further 9 institutions are hardly using the content.

2. WHICH TITLES DON'T GET CONSULTED?

In 2010 all AR titles in the CINCEL collection were used to some extent.

Table 6 below shows the consolidated breakdown of usage by the number of articles 'requested' from a particular journal. An article request is the same as a full text download (HTML or PDF).

Table 6: Number of Journals titles with these number of requests in 2010 (extrapolated data used) in each Tier

Tier	Number of Journal titles with these number of requests in 2010 (extrapolated data used) in each Tier	% of all titles in CINCEL collection
0 Requests	0	0.00%
1-9 Requests	0	0.00%
10-49 Requests	1	2.86%
50-99 Requests	3	8.57%
100-199 Requests	0	0.00%
200-299 Requests	3	8.57%
300-399 Requests	4	11.43%
400-499 Requests	5	14.29%
500+ Requests	19	54.29%
Total:	35	100.00%

All titles have seen some use. There were 4 titles with less than 100 downloads in total in 2010. These are:

Annual Review of Nuclear and Particle Science

Annual Review of Analytical Chemistry

Annual Review of Law and Social Science
Annual Review of Computer Science

3. WHICH ARE THE MOST ACTIVE IP ADDRESSES?

Annual Reviews was unable to provide a breakdown of usage data by IP address. It can be surmised that the most active IP addresses will relate to UCHILE, PUC and UDEC.

4. WHAT IS THE RATE OF TURNAWAYS?

A turnaway means the situation where a user has tried to access an article but cannot do so because the article is associated with a journal title that is not included in CINCEL's collection.

The turnaway reports have been requested from the publisher in connection with these titles:

Annual Review of Chemical and Biomolecular Engineering
Annual Review of Condensed Matter Physics
Annual Review of Economics
Annual Review of Financial Economics
Annual Review of Food Science and Technology
Annual Review of Resource Economics

It is noted that some institutions currently subscribe separately to these titles outside the CINCEL agreement and therefore the turnaways reports should be considered in conjunction with the usage figures of the subscribing institutions to the same titles.

Users have tried to access the following titles in 2009 and 2010 as shown in Table 7:

Table 7 Denials of access to content outside the CINCEL consortium agreement

Title	Total 2009	Total 2010
Annual Review of Economics	1	65
Annual Review of Financial Economics	6	8
Annual Review of Resource Economics	23	35
Totals	30	108

The usage data analysis showed that some institutions had accessed these same titles via their own subscription as shown below by Table 8.

Table 8: Accesses to non-collection titles by certain institutions with their own subscription

Title	Total 2009	Total 2010
Annual Review of Economics	8	1
Annual Review of Financial Economics	0	0
Annual Review of Resource Economics	20	5
Totals	28	6

Publisher: Elsevier

The main questions to answer were:

- 1 Which titles are the most demanded by each institution?
- 2 Which titles don't get consulted?
- 3 Which are the most active IP addresses?
- 4 What is the rate of turnaways?

The CINCEL Collection

From the information provided by CINCEL the number of titles in each collection can be seen from Table A:

Table A: Number of titles available to CINCEL in the Freedom Collection (FC) each year of the agreement from information provided by CINCEL

FC2006	FC2007	FC2008	FC2009	FC2010
1818	1858	1956	2012	2059

Usage data for 2009 and 2010 was obtained from the JR1F reports. The 2008 data was obtained from the the individual JR1 reports and aggregated to give the same data as would the JR 1F usage report.

The JR1F report collects usage data for each title for each CINCEL member account for titles accessible to the CNICEL consortium. The number of titles in the CINCEL subscribed collection, accessible in 2009 was **2059**. The number of titles accessible to CINCEL in 2010 was **2142**. These numbers vary a little from the information provided by CINCEL but probably can be explained by titles that have moved in or out of the collection and where a title is comprised of 2 or more parts.

Each CINCEL member had access to exactly the same content in 2009 and 2010 using these reports.

Limitations

The 2008 consortium JR 1F usage data report could not be collected from the Elsevier website because it was not available, however the individual JR1 reports were collected and aggregated to give the same data as would the JR 1F usage report.

The Elsevier CINCEL consortium usage report as downloaded from Elsevier included usage for the Cell Press titles. Although these titles were not subscribed by all the consortium, the main titles used by a few subscribing institutions were Cell and Neuron. It was expected that this report would only show shared consortium level statistics in the JR1F report used (see http://www.info.sciverse.com/UserFiles/Files/sciencedirect/usagereports_qrg.pdf at Point 5).

The Cell Press usage was included in the overall analysis of CINCEL downloads but the title was excluded from the Top 10 list of titles in terms of use.

The total usage for Cell was:

Year 2008: 5.473
 Year 2009: 6.568
 Year 2010: 7.593

The total usage for Neuron was:

Year 2008 3.813
 Year 2009 5.233
 Year 2010: 4.927

Summary Figures

Please see Table 1 below for the summary figures.

Table 1: Elsevier: Overview Consortium Expenditure and Usage			
Year	2008	2009	2010
Total amount spent with this publisher	US\$ 3,122,616	US\$ 3,424,784	US\$ 3,752,271.32
Total # Articles downloaded	1,213,712	1,471,025	1,527,254
Average cost per download	US\$ 2.57	US\$ 2.33	US\$ 2.46
# titles in CINCEL collection (approx)	1956	2059	2142
Average cost per title	US\$ 1596.43	US\$ 1663.32	US\$ 1751.61

COUNTER Report JR1F was used to collect usage data for 2009 and 2010 downloads. This provided COUNTER compliant data and the best direct comparison of usage across all the titles in the CINCEL collection. Unfortunately this report was not available on Elsevier’s website for 2008. The 2008 consortium JR 1F usage data report could not be collected from the Elsevier website because it was not available, however the individual JR1 reports were collected and aggregated to give the same data as would the JR 1F usage report.

The number of titles in the CINCEL collection for 2009 and 2010 as shown in Table 1 is a reflection of the titles listed in the JR1F usage reports.

The total number of articles downloaded in 2010 has increased over 2009, showing a 3.8% increase and a 26% increase over 2008.

The average cost per download in 2010 has increased over 2009 from US\$ 2.33 to US\$ 2.46. The 2010 average cost per download is below the 2008 figure.

Overall the Elsevier content is providing good value for money when using a benchmark of US\$ 3.00.

The number of titles accessible in the CINCEL collection in 2010 over 2009 is higher by 83 titles and over 2008 is higher by 186 titles.

The average cost per title has increased by US\$ 155.18 or 9.7% from 2008 to 2010.

1. WHICH TITLES ARE MOST DEMANDED BY THE INSTITUTIONS?

1.1. Usage Data at institutional level

The institutional usage data JR1F reports for 2009 and 2010 are shown in the associated Excel files. These usage reports report on front file usage only.

Using the JR1F data, Institutional usage data templates were completed for 2009 and 2010 as shown in the associated Excel files. The following information was recorded and calculated in the template (spreadsheet) for each institution:

- Number of Full Text Article Requests for the year (PDF + HTML).
- Number of journal titles accessible*
- The top 10 titles by usage (article requests)
- The usage of each of the 10 titles previously mentioned
- The percentage of use of each title of the total usage figure
- The percentage of the total usage of the top 10 titles of the total usage figure
- The number of journals with:
 - 0 Requests (a 'Request' means a full text article downloaded)
 - 1-9 Requests
 - 10-49 Requests
 - 50-99 Requests
 - 100-199 Requests

- 200-299 Requests
- 300-399 Requests
- 400-499 Requests
- 500+ Requests
- A list of any titles with 3,000+ article requests

*The number of journals accessible for the publisher agreement was noted in the template as the same for each institution.

Each CINCEL institution can therefore review its own usage data sheet and template to see which titles were the most and least used at institutional level.

1.2. Top Ten Titles by Usage across the Consortium

The titles in the top ten for 2008, 2009 and 2010 by usage are shown below in Tables 2 and 3 and 4 below.

Table 2: 2010 Top 10 titles by usage(Excludes Cell)	2010 Article Requests	% of Total Article Requests
Aquaculture	26,228	1.73%
Food Chemistry	20,836	1.37%
The Lancet	17,163	1.13%
Bioresource Technology	16,273	1.07%
Journal of Food Engineering	11,995	0.79%
Hydrometallurgy	8,334	0.55%
Biochemical and Biophysical Research Communications	8,151	0.54%
Journal of Chromatography A	7,941	0.52%
Journal of Hazardous Materials	7,783	0.51%
Water Research	7,457	0.49%
Total	132,161	8.65%

Table 3: 2009 Top 10 titles by usage	2009 Article Requests	% of Total Article Requests
Aquaculture	27,966	1.90%
Food Chemistry	21,030	1.43%
The Lancet	17,141	1.17%
Bioresource Technology	12,989	0.88%
Journal of Food Engineering	12,431	0.85%
Journal of Hazardous Materials	8,901	0.61%
Water Research	8,608	0.59%
Biochemical and Biophysical Research Communications	8,115	0.55%
Desalination	8,040	0.55%
Hydrometallurgy	7,411	0.50%
Total	132,632	9.02%

Table 4:	2008 Article	% of Total
2008 Top 10 titles by usage	Requests	Article Requests
Aquaculture	23,390	1.93%
The Lancet	17,031	1.40%
Food Chemistry	15,066	1.24%
Bioresource Technology	11,219	0.92%
Journal of Food Engineering	9,876	0.81%
Water Research	9,117	0.75%
Journal of Chromatography A	7,041	0.58%
Forest Ecology and Management	7,023	0.58%
Chemosphere	6,642	0.55%
Biochemical and Biophysical Research Communications	6,562	0.54%
Total	112,967	9.31%

It can be seen from Tables 2 and 3 that *Journal of Chromatography A* replace *Desalination* in the top ten list of titles by usage in 2010 compared to 2009.

The total usage of 132,297 full text downloads for the top ten titles in 2010 is just lower than the figure of 132,632 for the top ten titles in 2009, or a decrease of 0.36% which is a minimal change.

8.65% of the consortium's usage in 2010 can be found in these top ten titles. During 2009 the top ten titles accounted for 9.02% of all usage.

For 2010 it was found that 95 titles received a total of over 3,000 or more downloads each, representing 4.44% of all the titles available (2142) and 33.16% of all the usage for 2010. These titles are shown in [Elsevier Appendix B](#).

195 titles received a total of over 2,000 or more downloads each, representing 7% of all the titles and 49% of the usage.

458 titles received a total of over 1,000 or more downloads each, representing 21.4% of all the titles and 73.5% of all the usage.

1.3. Top Ten Most Shared Titles across the Consortium

Table 5 below shows the titles that are most **shared** by consortium members in 2010.

In 2010 UNATOF had 2 accounts recorded (compared to 2009 when only one account was recorded). For this institution the amounts were collected and the combined amount shown for 2010.

The most shared title is *Food Chemistry* with 16 institutions using this title to some extent. It was noted that there were a number of titles that appear in the “Top ten most shared Elsevier titles in 2010” list (Table 4) that don’t appear in the “2010 Top ten titles by usage “ (Table 2). These 4 titles are: *Journal of Experimental Marine Biology and Ecology*, *Minerals Engineering*, *Fish & Shellfish immunology* and *Scientia Horticulturae*

Table 5: Top 10 most shared Elsevier titles in 2010

Title	Article Requests	Institution
Food Chemistry	2,555	PUC
Food Chemistry	1,910	PUCV
Food Chemistry	475	UCT
Food Chemistry	206	UNAP
Food Chemistry	576	UTFSM
Food Chemistry	53	UTEM
Food Chemistry	709	UNATOF
Food Chemistry	3,673	UCHILE
Food Chemistry	2,598	UDEC
Food Chemistry	474	ULAGOS
Food Chemistry	1,592	USACH
Food Chemistry	493	UTALCA
Food Chemistry	404	UV
Food Chemistry	2,299	UFRO
Food Chemistry	758	USERENA
Food Chemistry	881	UBB
Food Chemistry		16
Aquaculture	30	CONICYT
Aquaculture	6,017	PUC
Aquaculture	1,217	PUCV
Aquaculture	2,293	UACH
Aquaculture	1,962	UCT
Aquaculture	242	UCSC

Aquaculture	5,545	UCN	
Aquaculture	617	UNAP	
Aquaculture	1,092	UNATOF	
Aquaculture	3,045	UDEC	
Aquaculture	659	ULAGOS	
Aquaculture	156	UMAG	
Aquaculture	436	UV	
Aquaculture			13
Bioresource Technology	2,614	PUCV	
Bioresource Technology	527	UCT	
Bioresource Technology	248	UNAP	
Bioresource Technology	555	UTFSM	
Bioresource Technology	155	UTEM	
Bioresource Technology	3,812	UDEC	
Bioresource Technology	797	USACH	
Bioresource Technology	2,523	UFRO	
Bioresource Technology			8
Journal of Food Engineering	1,295	PUCV	
Journal of Food Engineering	473	UTFSM	
Journal of Food Engineering	543	UNATOF	
Journal of Food Engineering	381	ULAGOS	
Journal of Food Engineering	1,723	USACH	
Journal of Food Engineering	681	UFRO	
Journal of Food Engineering	1,050	USERENA	
Journal of Food Engineering	997	UBB	
Journal of Food Engineering			8
Journal of Hazardous Materials	837	PUCV	
Journal of Hazardous Materials	227	UCSC	
Journal of Hazardous Materials	74	UDA	
Journal of Hazardous Materials	1,517	UDEC	
Journal of Hazardous Materials	792	USACH	
Journal of Hazardous Materials	859	UFRO	
Journal of Hazardous Materials	18	CONSORT	
Journal of Hazardous Materials			7
Journal of Experimental Marine Biology and Ecology	878	UACH	
Journal of Experimental Marine Biology and Ecology	273	UCSC	
Journal of Experimental Marine Biology and Ecology	1,251	UCN	
Journal of Experimental Marine Biology and Ecology	798	UNATOF	

Journal of Experimental Marine Biology and Ecology	303	ULAGOS	
Journal of Experimental Marine Biology and Ecology	138	UMAG	
Journal of Experimental Marine Biology and Ecology			6
The Lancet	7,500	PUC	
The Lancet	906	UACH	
The Lancet	85	UCM	
The Lancet	5,518	UCHILE	
The Lancet	324	UV	
The Lancet	998	UFRO	
The Lancet			6
Minerals Engineering	21	CONICYT	
Minerals Engineering	1,212	UCN	
Minerals Engineering	698	UTFSM	
Minerals Engineering	742	UNATOF	
Minerals Engineering	84	UDA	
Minerals Engineering			5
Fish & Shellfish Immunology	22	CONICYT	
Fish & Shellfish Immunology	734	PUCV	
Fish & Shellfish Immunology	458	UCN	
Fish & Shellfish Immunology	936	USACH	
Fish & Shellfish Immunology			4
Scientia Horticulturae	871	PUCV	
Scientia Horticulturae	91	UCM	
Scientia Horticulturae	727	UTALCA	
Scientia Horticulturae	131	UTA	

1.4. Usage by Institution

How CINCEL institutions made use of all the Elsevier 2008, 2009 and 2010 content available online is as shown below in Table 6.

Three institutions, UCHILE, PUC and UDEC, account for 59.95% of the accesses in 2009 and the same institutions account for 59% of all of the usage in 2010. In 2008 they accounted for 63.18% of the total usage.

The first 16 institutions listed account for 97% of all the usage in 2010 and the same proportion in 2009 and 2008.

UACH has shown a significant increase in usage from 2009 to 2010 by 1.63%. Apart from this institution's increase in usage there was little change in usage patterns by the other institutions.

All institutions used some of the content. In 2010 UMCE and, CONICYT made very low use of the content. A new consortium account (C000061810), present in 2010 but not in 2009, registered very little downloads.

Table 6: Institutional usage of Elsevier content in 2010 and 2009

Institutions	2010 downloads JR1F	2010 as % of total	2009 downloads JR1F	2009 as % of total	Percentage of total use change from 2009 to 2010	2008 downloads JR1
UCHILE	378,400	24.78%	365783	24.87%	-0.09%	348079
PUC	306,407	20.06%	292470	19.88%	0.18%	236001
UDEC	217,445	14.24%	223539	15.20%	-0.96%	182820
UFRO	80,908	5.30%	71447	4.86%	0.44%	72526
UACH	95,329	6.24%	67902	4.62%	1.63%	33113
USACH	75,488	4.94%	66049	4.49%	0.45%	56039
PUCV	66,380	4.35%	63372	4.31%	0.04%	43348
UCN	47,078	3.08%	49765	3.38%	-0.30%	40271
UNATOF	34,580	2.26%	48299	3.28%	-1.02%	23058
UTALCA	41,696	2.73%	39651	2.70%	0.03%	30178
UTFSM	33,962	2.22%	34047	2.31%	-0.09%	21722
UV	34,615	2.27%	30999	2.11%	0.16%	21049
UCT	24,813	1.62%	27601	1.88%	-0.25%	23981
USERENA	16,833	1.10%	17173	1.17%	-0.07%	23176
UBB	15,003	0.98%	14533	0.99%	-0.01%	11023
UNAP	16,549	1.08%	11645	0.79%	0.29%	8930
UCM	6,149	0.40%	9236	0.63%	-0.23%	6338
UTA	7,684	0.50%	8227	0.56%	-0.06%	6178
ULAGOS	7,358	0.48%	7241	0.49%	-0.01%	6698
UCSC	6,833	0.45%	5951	0.40%	0.04%	5918
UMAG	3,733	0.24%	4545	0.31%	-0.06%	1608
UDA	2,469	0.16%	3608	0.25%	-0.08%	4567
UTEM	2,695	0.18%	2666	0.18%	0.00%	3488
UPLA	2,404	0.16%	2404	0.16%	-0.01%	245
UMCE	264	0.02%	1825	0.12%	-0.11%	1297
CONICYT	1,565	0.10%	1047	0.07%	0.03%	1140
CONSORT	614	0.04%				
Totals	1,527,254	100.00%	1,471,025	100.00%	3.82%	1,213,712

Estimated overall usage for 2010 has increased by 56,229 downloads over 2009, or nearly 4%. From 2008 to 2010 usage has increased by 25.8%.

2. WHICH TITLES DON'T GET CONSULTED?

In 2010 all 2142 available Elsevier titles were used to some extent across all CINCEL members.

Table 7 below shows the breakdown of usage by the total number of articles 'requested' for each journal. An article request is the same as a full text download (HTML or PDF).

Table 7: Number of journals with corresponding number of article requests.

Tier	Number of titles	% of Total Titles
0 Requests	0	0.00%
1-9 Requests	241	11.26%
10-49 Requests	298	13.92%
50-99 Requests	186	8.69%
100-199 Requests	257	12.00%
200-299 Requests	173	8.08%
300-399 Requests	139	6.49%
400-499 Requests	102	4.76%
500+ Requests	746	34.80%
Total:	2142	100.00%

The full list of 2010 titles sorted by usage from highest to lowest can be found in the spreadsheet "Report 1F 2010 All Institutions.xlsx" in tab "1F all by usage". Column AE in this spreadsheet shows the total of all the institutional usage per title.

It can be noted that with the exception of UCHILE, PUC and UDEC, no institutions are using Elsevier content to any great extent comparatively. UCHILE, PUC and UDEC account for around 60% of the total usage in 2010.

3. WHICH ARE THE MOST ACTIVE IP ADDRESSES?

Elsevier was unable to provide a breakdown of usage data by IP address.

It can surmise that the most active IP addresses will relate to UCHILE, PUC and UDEC.

4. WHAT IS THE RATE OF TURNAWAYS?

A turnaway means the situation where a user has tried to access an article but cannot do so because the article is associated with a journal title that is not included in CINCEL's collection.

Report JR 1E – “Unsubscribed Article Views” was reviewed for 2010. The Excel report is shown separately.

The list of titles was compared against CINCEL's list and except for 12 titles, all the titles are available to CINCEL anyway. It can surmise that a number of CINCEL users accessed this content in a different way and the usage has been recorded as a non-subscribed article view. The 12 titles not available in CINCEL's collection have one download each recorded.

Publisher: Nature PG

The main questions to answer were:

- 1 Which titles are the most demanded by each institution?
- 2 Which titles don't get consulted?
- 3 Which are the most active IP addresses?
- 4 What is the rate of turnaways?

THE CINCEL COLLECTION

The Nature PG CINCEL agreement is a Collection covering 31 titles in 2010, 31 titles in 2009 and 31 titles in 2008. This information was provided by CINCEL.

It was noted that the Nature Clinical Practice Series (8 titles) changed to Nature Reviews from 2009 and hence **usage data** has been collected for both the old and new title names.

It was decided to also include the title *Nature News* in the usage analysis. Although this is a non-subscribed title as such, all institutions had access to it and it was a very highly-used title generally. However, the total usage for *Nature News* in 2009 and 2010 has not been included in the figures showing in Table 1 below.

Overall, therefore, usage data was collected for 2008, 2009 and 2010 relating to **40** different titles.

CINCEL had an agreement in place with NPG for the period 2006-2008 and prior to the formation of the BEIC for a subscription to 17 titles at a total cost of US \$310,000 for two years, or US \$155,000 annually. The agreement covered the same 25 CINCEL members of the BEIC today. This cost was 100% funded by a grant under MECESUP. CINCEL had an additional subscription agreement in place with NPG for 14 titles at a cost of US \$394,901. The total of both subscriptions in 2008 was US \$549,901.

At the time the 2006-2008 agreement was concluded, NPG had little market penetration in Chile, so the 2006-2008 price was quite favorable to CINCEL. The jump in price to US \$710,851 in 2009 coincided with the formation of the BEIC, the expiration of the 2006-2008 agreement and NPG's more comfortable position in the Chilean market.

Limitations

The data for 2008, 2009 and 2010 was analyzed

Summary Figures:

Please see Table 1 below for the summary figures.

Table 1: Nature PG: Overview Consortium Expenditure and Usage			
Year	2008	2009	2010
Total amount spent with this publisher	\$549,901	\$710,851.00	\$753,508.87
Total # articles downloaded JR1	86,984	115,209	127,480
Average cost per download	\$6.32	\$6.17	\$5.91
# titles in CINCEL collection	31	31	31
Average cost per title	\$17,738.74	\$22,930.67	US\$24,306.73

The total number of articles downloaded each year showing in Table 1 excludes downloads for *Nature News*.

The total number of articles downloaded in 2010 has increased over 2009.

The average cost per download has reduced in 2010 over 2009 and also compared to 2008. However, at \$5.91 in 2010 this is a high cost per download when benchmarking against US\$3.00 used for other CINCEL agreements.

The number of titles in the collection remains at 31 (excludes *Nature News*)

The average cost per title has increased by \$1,376.96 or 6% from 2009 to 2010.

The average cost per title has increased by 37% from 2008 to 2010.

1. WHICH TITLES ARE MOST DEMANDED BY THE INSTITUTIONS?

1.1. Usage Data at institutional level

The institutional usage data COUNTER JR1 reports for 2009 and 2010 are shown in the associated Excel files.

Using the COUNTER JR1 data, Institutional usage data templates were completed for 2009 and 2010 as shown in the associated Excel files. The following information was recorded and calculated in the template (spreadsheet) for each institution:

- Number of Full Text Article Requests for the year (PDF + HTML). The total figure for 2010 was extrapolated.
- Number of journal titles accessible*
- The top 10 titles by usage (article requests)
- The usage of each of the 10 titles previously mentioned
- The percentage of use of each title of the total usage figure
- The percentage of the total usage of the top 10 titles of the total usage figure
- The number of journals with:
 - 0 Requests (a 'Request' means a full text article downloaded)
 - 1-9 Requests
 - 10-49 Requests
 - 50-99 Requests
 - 100-199 Requests
 - 200-299 Requests
 - 300-399 Requests
 - 400-499 Requests
 - 500+ Requests
- A list of any titles with 3,000+ article requests

*The number of journals accessible for the publisher agreement was noted in the template as the same for each institution.

Each CINCEL institution can therefore review its own usage data sheet and template to see which titles were the most and least used at institutional level.

1.2. Top Ten Titles by Usage across the Consortium

For 2008, 2009 and 2010 the titles in the top ten are shown below in Tables 2, 3 and 4.

Table 2: Top Ten Nature PG Titles by Usage in 2008		
TITLE	Article requests	% of total article requests
Nature	30564	32.10%
Nature News	8218	8.63%
Nature Reviews Neuroscience	5423	5.70%
Nature Reviews Molecular Cell Biology	5336	5.60%
Nature Reviews Microbiology	3969	4.17%
Nature Neuroscience	3551	3.73%
Nature Reviews Immunology	3099	3.26%
Nature Reviews Genetics	3058	3.21%
Nature Biotechnology	2959	3.11%
Total	66,177	69.51%

Table 3: Top 10 Nature PG titles by Usage 2009		
Title	Article Requests	% of Total Article Requests
Nature	41602	34%
Nature News	7020	6%
Nature Reviews Neuroscience	6333	5%
Nature Reviews Molecular Cell Biology	5062	4%
Nature Reviews Genetics	4417	4%
Nature Reviews Microbiology	4312	4%
Nature Neuroscience	3867	3%

Nature Reviews Cancer	3654	3%
Nature Biotechnology	3398	3%
Nature Reviews Immunology	3113	3%
Total Downloads for Top 10	82,778	68%

Table 4: Top 10 NPG titles by usage 2010

Title	Article Requests	% of Total Article Requests
Nature	45748	33%
Nature News	9464	7%
Nature Reviews Neuroscience	7213	5%
Nature Neuroscience	5425	4%
Nature Reviews Molecular Cell Biology	5159	4%
Nature Reviews Genetics	4479	3%
Nature Reviews Microbiology	4153	3%
Nature Reviews Immunology	3738	3%
Nature Medicine	3143	2%
Nature Biotechnology	3038	2%
Total Downloads for Top 10	91,560	67%

Nature was in top place by usage in every institution (except UTEM with no usage) accounting for 33% of all the usage overall in 2010.

From 2008 to 2009 to 2010 the top 10 titles are fairly consistent with only one title different between 2009 and 2010. *Nature Reviews Cancer* which was in 8th place in has been replaced by *Nature Medicine* in 2010 (also in 8th place in 2010).

Nature Neuroscience and *Nature Medicine* are both 'new' titles added to the CINCEL agreement for 2008, now showing in the Top Ten by usage.

Usage of the top 10 titles in 2010 has increased from 82,778 in 2009 to 91,560 in 2010. This is a 10.6% increase.

In 2010, 67% of all the usage by the consortium can be found in these top 10 titles compared to 68% in 2009.

Across the consortium, there were **28 different titles** appearing in the top ten by institution.

1.3. Top Ten Most Shared Titles across the Consortium

Table 5 below shows the titles that are most **shared** by consortium members in 2010.

The most shared title is not surprisingly *Nature* with 23 institutions using this title to the greatest extent. It was noted that there was one title that appears in the top eleven shared titles list (Table 5) that don't appear in the top ten list of titles by usage for 2010 (Table 4), namely: *Nature Protocols*

Table 5 : Top eleven shared titles		
Top 10 Journals	Article Requests	# of Institutions
Nature	11438	PUC
Nature	11069	UCHILE
Nature	6495	UDEC
Nature	2488	UACH
Nature	1877	USACH
Nature	1273	UV
Nature	955	USERENA
Nature	905	UCN
Nature	883	UNATOF
Nature	854	PUCV
Nature	833	UTALCA
Nature	617	UFRO
Nature	362	UTFSM
Nature	274	UCT
Nature	258	UCSC
Nature	241	UBB

Nature	206	UMAG	
Nature	169	UCM	
Nature	146	ULAGOS	
Nature	95	UTA	
Nature	79	UPLA	
Nature	56	UDA	
Nature	29	UTEM	
Nature	41602		23
Nature News	1914	UCHILE	
Nature News	1852	PUC	
Nature News	926	UDEC	
Nature News	495	USACH	
Nature News	317	UACH	
Nature News	214	USERENA	
Nature News	186	UTALCA	
Nature News	169	UCSC	
Nature News	135	UV	
Nature News	127	UCN	
Nature News	121	UTFSM	
Nature News	95	UFRO	
Nature News	94	PUCV	
Nature News	94	UNATOF	
Nature News	89	UBB	
Nature News	73	UCT	
Nature News	69	UMAG	
Nature News	15	ULAGOS	
Nature News	10	UTEM	
Nature News	10	UPLA	
Nature News	10	UTA	
Nature News	5	UDA	
Nature News	7020		22

Nature Reviews Genetics	1257	PUC	
Nature Reviews Genetics	996	UCHILE	
Nature Reviews Genetics	681	UDEC	
Nature Reviews Genetics	339	UACH	
Nature Reviews Genetics	282	USACH	
Nature Reviews Genetics	136	USERENA	
Nature Reviews Genetics	128	UV	
Nature Reviews Genetics	126	UTALCA	
Nature Reviews Genetics	104	UFRO	
Nature Reviews Genetics	93	UNATOF	
Nature Reviews Genetics	58	UMAG	
Nature Reviews Genetics	50	PUCV	
Nature Reviews Genetics	45	UBB	
Nature Reviews Genetics	43	UCN	
Nature Reviews Genetics	20	UCT	
Nature Reviews Genetics	19	ULAGOS	
Nature Reviews Genetics	19	UTA	
Nature Reviews Genetics	17	UCSC	
Nature Reviews Genetics	4	UDA	
Nature Reviews Genetics	4417		19
Nature Biotechnology	938	PUC	
Nature Biotechnology	764	UDEC	
Nature Biotechnology	285	UTALCA	
Nature Biotechnology	239	UACH	
Nature Biotechnology	214	UTFSM	
Nature Biotechnology	201	USERENA	
Nature Biotechnology	178	USACH	
Nature Biotechnology	172	UFRO	
Nature Biotechnology	148	UNATOF	
Nature Biotechnology	126	PUCV	
Nature Biotechnology	59	UDA	

Nature Biotechnology	37	UCSC	
Nature Biotechnology	17	UTA	
Nature Biotechnology	8	UCT	
Nature Biotechnology	5	UTEM	
Nature Biotechnology	4	ULAGOS	
Nature Biotechnology	3	UMAG	
Nature Biotechnology	3398		17
Nature Reviews Molecular Cell Biology	1737	PUC	
Nature Reviews Molecular Cell Biology	1185	UCHILE	
Nature Reviews Molecular Cell Biology	756	UDEC	
Nature Reviews Molecular Cell Biology	390	UACH	
Nature Reviews Molecular Cell Biology	204	UV	
Nature Reviews Molecular Cell Biology	146	USERENA	
Nature Reviews Molecular Cell Biology	101	UFRO	
Nature Reviews Molecular Cell Biology	99	UNATOF	
Nature Reviews Molecular Cell Biology	99	USACH	
Nature Reviews Molecular Cell Biology	90	UTALCA	
Nature Reviews Molecular Cell Biology	82	PUCV	
Nature Reviews Molecular Cell Biology	72	UTFSM	
Nature Reviews Molecular Cell Biology	32	UCM	
Nature Reviews Molecular Cell Biology	28	UCT	
Nature Reviews Molecular Cell Biology	19	UBB	
Nature Reviews Molecular Cell Biology	12	UCSC	
Nature Reviews Molecular Cell Biology	10	UPLA	
Nature Reviews Molecular Cell Biology	5062		17
Nature Reviews Neuroscience	2393	PUC	
Nature Reviews Neuroscience	2064	UCHILE	
Nature Reviews Neuroscience	625	UDEC	
Nature Reviews Neuroscience	302	UV	
Nature Reviews Neuroscience	282	UACH	
Nature Reviews Neuroscience	192	USACH	

Nature Reviews Neuroscience	89	UTFSM	
Nature Reviews Neuroscience	84	UCM	
Nature Reviews Neuroscience	84	UPLA	
Nature Reviews Neuroscience	76	UCN	
Nature Reviews Neuroscience	66	PUCV	
Nature Reviews Neuroscience	64	UNATOF	
Nature Reviews Neuroscience	7	UMAG	
Nature Reviews Neuroscience	3	ULAGOS	
Nature Reviews Neuroscience	2	UDA	
Nature Reviews Neuroscience	6333		15
Nature Reviews Cancer	1046	UCHILE	
Nature Reviews Cancer	1017	PUC	
Nature Reviews Cancer	613	UDEC	
Nature Reviews Cancer	296	UACH	
Nature Reviews Cancer	192	UV	
Nature Reviews Cancer	105	USACH	
Nature Reviews Cancer	103	UFRO	
Nature Reviews Cancer	85	USERENA	
Nature Reviews Cancer	69	UTFSM	
Nature Reviews Cancer	49	PUCV	
Nature Reviews Cancer	49	UCM	
Nature Reviews Cancer	24	UBB	
Nature Reviews Cancer	4	UMAG	
Nature Reviews Cancer	2	ULAGOS	
Nature Reviews Cancer	3654		14
Nature Reviews Microbiology	1552	UCHILE	
Nature Reviews Microbiology	851	UDEC	
Nature Reviews Microbiology	432	UACH	
Nature Reviews Microbiology	381	UFRO	
Nature Reviews Microbiology	276	USERENA	
Nature Reviews Microbiology	266	UNATOF	

Nature Reviews Microbiology	152	UV	
Nature Reviews Microbiology	125	UTFSM	
Nature Reviews Microbiology	88	PUCV	
Nature Reviews Microbiology	80	UTALCA	
Nature Reviews Microbiology	61	UBB	
Nature Reviews Microbiology	41	UCN	
Nature Reviews Microbiology	7	UTEM	
Nature Reviews Microbiology	4312		13
Nature Neuroscience	1784	PUC	
Nature Neuroscience	1491	UCHILE	
Nature Neuroscience	376	UV	
Nature Neuroscience	99	UCN	
Nature Neuroscience	56	UCM	
Nature Neuroscience	46	UPLA	
Nature Neuroscience	10	ULAGOS	
Nature Neuroscience	3	UTEM	
Nature Neuroscience	2	UDA	
Nature Neuroscience	3867		9
Nature Protocols	127	USACH	
Nature Protocols	113	UFRO	
Nature Protocols	102	UTALCA	
Nature Protocols	90	USERENA	
Nature Protocols	76	UNATOF	
Nature Protocols	52	UCN	
Nature Protocols	41	PUCV	
Nature Protocols	12	ULAGOS	
Nature Protocols	12	UPLA	
Nature Protocols	625		9
Nature Reviews Immunology	1935	UCHILE	
Nature Reviews Immunology	715	UDEC	
Nature Reviews Immunology	245	UACH	

Nature Reviews Immunology	106	UFRO	
Nature Reviews Immunology	48	UNATOF	
Nature Reviews Immunology	38	UCM	
Nature Reviews Immunology	14	UCSC	
Nature Reviews Immunology	8	UBB	
Nature Reviews Immunology	4	ULAGOS	
Nature Reviews Immunology	3113		9

1.4. Usage by Institution

How CINCEL institutions are currently making use of the Nature PG content is as shown below in Table 6. In 2010 three institutions (UCHILE, PUC and UDEC) account for 62.96% of all usage. Figures include downloads for *Nature News*.

Institution	Total usage 2010	% of 2010 total usage	Total usage 2009	% of 2010 total usage	% increase 2010 over 2009	Total usage 2008
UCHILE	38,642	28.22%	33,951	27.78%	13.82%	27,344
PUC	38,432	28.06%	33,708	27.58%	14.01%	27,796
UDEC	20,055	14.64%	17,583	14.39%	14.06%	13,801
UACH	10,689	7.81%	8,038	6.58%	32.98%	4,678
USACH	5,116	3.74%	4,463	3.65%	14.63%	3,802
UV	4,880	3.56%	3,766	3.08%	29.58%	4,312
UCN	2,682	1.96%	1,678	1.37%	59.83%	
UFRO	2,675	1.95%	2,476	2.03%	8.04%	
UNATOF	2,542	1.86%	2,236	1.83%	13.69%	
PUCV	2,380	1.74%	1,833	1.50%	29.84%	
UTALCA	2,049	1.50%	2,351	1.92%	-12.85%	
UTFSM	1,286	0.94%	1,199	0.98%	7.26%	

UNAP	1,163	0.85%	1,625	1.33%	-28.43%	
USERENA	1,152	0.84%	3,146	2.57%	-63.38%	
UCSC	626	0.46%	665	0.54%	-5.86%	
UBB	468	0.34%	562	0.46%	-16.73%	
UPLA	464	0.34%	393	0.32%	18.07%	
UMAG	392	0.29%	408	0.33%	-3.92%	
UCM	387	0.28%	795	0.65%	-51.32%	
ULAGOS	340	0.25%	221	0.18%	53.85%	
UCT	292	0.21%	609	0.50%	-52.05%	
UTA	119	0.09%	302	0.25%	-60.60%	
UDA	71	0.05%	140	0.11%	-49.29%	
UTEM	42	0.03%	81	0.07%	-48.15%	
UMCE	0	0.00%	0	0.00%	0.00%	
TOTAL	136,944	100.00%	122,229	100.00%	12.04%	95,202

One institution, UMCE, has not used the content at all in 2010.

In 2010, five institutions account for 82.46% of the total usage that year. These are UCHILE, PUC, UDEC, UACH and USACH.

In 2008 these same five institutions accounted for 81.32% of the total usage. It can be seen that there is a change of just over 1%.

The top ten institutions by usage in 2010 have all increased their usage in 2010 over 2009. Their combined usage in 2010 accounts for 94% of the total.

Fourteen institutions with over 1,000 downloads or more in total for 2010 accounts for 98% of all usage.

Overall usage for 2010 has increased by 14,715 downloads or by 12.04%.

Thirteen institutions have increased their usage for 2010 over 2009, of which ten are in the top ten by usage. At the bottom end of Table 5 there are a number of institutions where usage has dropped dramatically in 2010 compared to 2009.

2. WHICH TITLES DON'T GET CONSULTED?

In 2010, 4 Nature PG titles in the CINCEL collection of 31 titles did not make it into any institution's top ten by usage. These titles were:

Nature Reviews Clinical Oncology
Nature Reviews Gastroenterology and Hepatology
Nature Reviews Nephrology
Nature Reviews Urology

These titles are all 'new' CINCEL titles added for 2008.

The highest users of all the content used the above-mentioned titles in the following way in 2010:

UCHILE	1133 total downloads for all 4 titles	2.9% of UCHILE's total usage
PUC	1639 total downloads for all 4 titles	4.2% of PUC's total usage
UDEC	260 total downloads for all 4 titles	1.3% of UDEC's total usage
Total all 3:	3032 total downloads	

Table 7 below shows the breakdown of all the consortium's usage by the number of articles 'requested' from a particular journal. An article request is the same as a full text download (HTML or PDF).

Table 7: Number of Journal titles with these numbers of requests in 2010 in each Tier

Number of Journals with:	Number	% of Total
0 Requests	0	0.00%
1-9 Requests	0	0.00%
10-49 Requests	0	0.00%
50-99 Requests	1	2.50%
100-199 Requests	1	2.50%
200-299 Requests	2	5.00%
300-399 Requests	3	7.50%
400-499 Requests	3	7.50%
500+ Requests	30	75.00%
Total:	40	100.00%

3. WHICH ARE THE MOST ACTIVE IP ADDRESSES?

Nature PG provides IP activity usage reports for each institution.

Three reports were reviewed, for UCHILE, PUC and UDEC, being the institutions making most use of the content, to see if there were any IP addresses that were making more use of the content than other IP addresses listed for these organisations. The full details for these 3 institutions can be viewed in the spreadsheet called 'NPG IPs 2010'. Table 8 below shows the 2 most active IP addresses for each institution.

Institution	IP address	% of institutional total
PUC	146.155.155.20	33.82%
PUC	146.155.212.183	2.63%
UCHILE	200.89.69.67	10.66%
UCHILE	200.89.68.5	9.76%
UDEC	152.74.20.54	27.48%
UDEC	152.74.16.3	26.83%

In the case of UDEC it can be seen that 2 IP addresses account for over 50% of all their usage.

4. WHAT IS THE RATE OF TURNAWAYS?

A turnaway means the situation where a user has tried to access an article but cannot do so because the article is associated with a journal title that is not included in CINCEL's collection.

Nature PG does provide reports on the number of turnaways but they are only in relation to titles already licensed by CINCEL members.

However, statistics were produced by Nature PG for titles not included in the CINCEL agreement, many of which received usage. These usages have been stored in the usage data spreadsheets for each institution in a tab called 'non-subscriptions'. Also, some institutions had their own subscriptions to some of the non Collection titles and where this is the case the data relating to these subscriptions has been stored in the institutional data sheet in a tab called 'subs'.

Nature PG's academic and society titles include articles available on an Open Access model and this should be considered when reviewing non-subscribed usages. A Nature-branded title, *Nature Communications*, is also available on a hybrid Open Access model. Currently Nature PG is unable to separate out the Open Access usages from the paid-for usages and hence any analysis would be inaccurate at this stage.

The total usage for each of the non Collection titles is shown in Table 9 below. Please note therefore that the usage of institutions subscribing to any of these titles will be included in these figures along with any Open Access (free at point of use) articles downloaded.

Table 9 : Usage of non-collection titles	
Kidney International	3173
Heredity	2201
Journal of Investigative Dermatology	1881
British Journal of Cancer	1459
EMBO reports	1454
Cell Death and Differentiation	1449
Leukemia	1309
Clinical Pharmacology & Therapeutics	1268
British Dental Journal	1249
International Journal of Obesity	1186
Bone Marrow Transplantation	1156
Gene Therapy	1145
Modern Pathology	1127
Cell Research	1074
European Journal of Clinical Nutrition	1048
Molecular Psychiatry	1022
Journal of Cerebral Blood Flow & Metabolism	899
Molecular Therapy	899
Eye	823
European Journal of Human Genetics	804
Journal of Perinatology	714
Immunology and Cell Biology	713
Molecular Systems Biology	704

Laboratory Investigation	703
American Journal of Hypertension	655
Acta Pharmacologica Sinica	610
Journal of Human Hypertension	523
Hypertension Research	520
Asian Journal of Andrology	469
Mucosal Immunology	434
Nature Chemistry	368
Evidence-Based Dentistry	354
Cancer Gene Therapy	351
Journal of Human Genetics	319
Genes and Immunity	287
Nature Communications	267
Journal of Exposure Science and Environmental Epidemiology	263
International Journal of Impotence Research	214
Cellular & Molecular Immunology	203
Nature Digest	32
Lab Animal	18

Publisher: Oxford University Press (OUP)

The main questions to answer were:

- 1 Which titles are the most demanded by each institution?
- 2 Which titles don't get consulted?
- 3 Which are the most active IP addresses?
- 4 What is the rate of turnaways?

THE CINCEL COLLECTION

The OUP CINCEL agreement is a Collection covering 208 titles in 2010, 206 titles in 2009 and 201 titles in 2008. This information was provided by CINCEL.

A number of the titles are available on Open Access.

Limitations

Due to timing only 2009 and 2010 data have been analyzed.

Summary Figures

Please see Table 1 below for the summary figures.

Table 1: OUP: Overview Consortium Expenditure and Usage

Table 1: OUP: Overview Consortium Expenditure and Usage			
Year	2008	2009	2010
Total amount spent with this publisher	\$136,663	\$144,862	\$153,555
Total # articles downloaded JR1	79,473	89,703	83,826
Average cost per download	US\$1.72	US\$1.61	US\$1.83
# titles in CINCEL collection	201	206	208
Average cost per title	US\$ 679.92	US\$ 703.21	US\$738.25

Data concerning 2008 in Table 1 was provided by CINCEL.

The usage data reports for 2009 and 2010 were provided by the publisher.

The total number of articles downloaded in 2009 was 89,703.

The total number of articles downloaded in 2010 is predicted to decrease over 2009.

The average cost per download has increased for 2010 over 2009 but it can be seen that the average cost per download estimated for 2010 of US\$1.83 is showing good value in the context of other CINCEL agreements.

The Collection has increased in the number of titles by 5 titles for 2009 and by a further 2 for 2010.

The average cost per title has increased by \$58.33 or 9% from 2008 to 2010.

1. WHICH TITLES ARE MOST DEMANDED BY THE INSTITUTIONS?

1.1. Usage Data at institutional level

The institutional usage data COUNTER JR1 reports for 2010 are shown in the associated Excel files.

Using the COUNTER JR1 data, Institutional usage data templates were completed for 2010 as shown in the associated Excel files. The following information was recorded and calculated in the template (spreadsheet) for each institution:

- Number of Full Text Article Requests for the year (PDF + HTML). The total figure for 2010 was extrapolated.
- Number of journal titles accessible*
- The top 10 titles by usage (article requests)
- The usage of each of the 10 titles previously mentioned
- The percentage of use of each title of the total usage figure
- The percentage of the total usage of the top 10 titles of the total usage figure
- The number of journals with:
 - 0 Requests (a 'Request' means a full text article downloaded)
 - 1-9 Requests
 - 10-49 Requests
 - 50-99 Requests
 - 100-199 Requests
 - 200-299 Requests
 - 300-399 Requests
 - 400-499 Requests
 - 500+ Requests
- A list of any titles with 3,000+ article requests

*The number of journals accessible for the publisher agreement was noted in the template as the same for each institution.

Each CINCEL institution can therefore review its own usage data sheet and template to see which titles were the most and least used at institutional level.

1.2. Top Ten Titles by Usage across the Consortium

For 2010 the titles in the top ten are shown below. Please see Table 2.

Table 2: OUP 2010 Top 10 Journals

Table 2: OUP 2010 Top 10 Journals		
Top 10 Journals	2010 Article Requests	% of Total Article Requests
Journal of Experimental Botany	6562	7.83%
Nucleic Acids Research	4956	5.91%
Annals of Botany	3446	4.11%
Human Reproduction	3202	3.82%
Journal of Antimicrobial Chemotherapy	2834	3.38%
Bioinformatics	2777	3.31%
Nephrology Dialysis Transplantation	2604	3.11%
Brain	2545	3.04%
Molecular Biology and Evolution	2292	2.73%
ICES Journal of Marine Science: Journal du Conseil	2236	2.67%
Total Downloads for Top 10	33,454	39.91%

The top ten titles for 2009 are shown in Table 3.

Table 3: OUP 2009 Top 10 Journals		
Top 10 Journals	2009 Article Requests	% of Total Article Requests
Journal of Experimental Botany	6906	7.83%
Nucleic Acids Research	4326	5.91%
Human Reproduction	3034	4.11%
Nephrology Dialysis Transplantation	2425	3.82%
Cardiovascular Research	2199	3.38%
Brain	2132	3.31%
Journal of Antimicrobial Chemotherapy	2074	3.11%
Annals of Botany	2021	3.04%
Rheumatology	1662	2.73%
ICES Journal of Marine Science: Journal du Conseil	1661	2.67%
Total Downloads for Top 10	28,440	31.70%

In 2010, 2 new titles appear in the top ten: *Bioinformatics*, and *Molecular Biology and Evolution* replacing *Annals of Botany* and *Rheumatology*.

In 2010 there is an increase in usage of the top ten titles by usage from 31.7% of the total downloads in 2009 to nearly 40% of the downloads in 2010.

1.3. Top Ten Most Shared Titles across the Consortium

Table 4 below shows the titles that are most shared by consortium members in 2010.

The most shared title is *Journal of Experimental Botany* which is also the highest used title (see table 2) with 17 institutions using this title to some extent.

It was noted that there were a few titles that appear in the top ten shared titles list (table 3) that don't appear in the top ten list of titles by usage for 2010 (table 2), namely:

ELT Journal
 Journal of Plankton Research
 Plant and Cell Physiology
 Integrative and Comparative Biology

Table 4: 2010 Top Ten Most Shared Titles

Table 3: 2010 Top Ten Most Shared Titles	2010 Article Requests extrapolated	University using title and total
Journal of Experimental Botany	1580	PUC
Journal of Experimental Botany	268	PUCV
Journal of Experimental Botany	574	UACH
Journal of Experimental Botany	1360	UCHILE
Journal of Experimental Botany	36	UCM
Journal of Experimental Botany	24	UCSC
Journal of Experimental Botany	74	UCT
Journal of Experimental Botany	942	UDEC
Journal of Experimental Botany	212	UFRO
Journal of Experimental Botany	20	UNAP

Journal of Experimental Botany	43	UNATOF	
Journal of Experimental Botany	224	USACH	
Journal of Experimental Botany	300	USERENA	
Journal of Experimental Botany	30	UTA	
Journal of Experimental Botany	756	UTALCA	
Journal of Experimental Botany	2	UTEM	
Journal of Experimental Botany	48	UTFSM	
Journal of Experimental Botany	6494		17
Nucleic Acids Research	1042	PUC	
Nucleic Acids Research	88	PUCV	
Nucleic Acids Research	1457	UCHILE	
Nucleic Acids Research	13	UCM	
Nucleic Acids Research	43	UCN	
Nucleic Acids Research	647	UDEC	
Nucleic Acids Research	110	UFRO	
Nucleic Acids Research	11	ULAGOS	
Nucleic Acids Research	92	UNATOF	
Nucleic Acids Research	198	USACH	
Nucleic Acids Research	673	USERENA	
Nucleic Acids Research	240	UTALCA	
Nucleic Acids Research	38	UTFSM	
Nucleic Acids Research	101	UV	
Nucleic Acids Research	4753		14
Annals of Botany	180	PUCV	
Annals of Botany	461	UACH	
Annals of Botany	774	UCHILE	
Annals of Botany	46	UCM	
Annals of Botany	54	UCT	
Annals of Botany	544	UDEC	
Annals of Botany	109	UFRO	

Annals of Botany	18	UNAP	
Annals of Botany	82	USACH	
Annals of Botany	226	USERENA	
Annals of Botany	11	UTA	
Annals of Botany	275	UTALCA	
Annals of Botany	35	UTFSM	
Annals of Botany	2813		13
ICES Journal of Marine Science: Journal du Conseil	88	PUCV	
ICES Journal of Marine Science: Journal du Conseil	319	UACH	
ICES Journal of Marine Science: Journal du Conseil	203	UCN	
ICES Journal of Marine Science: Journal du Conseil	40	UCSC	
ICES Journal of Marine Science: Journal du Conseil	36	UCT	
ICES Journal of Marine Science: Journal du Conseil	682	UDEC	
ICES Journal of Marine Science: Journal du Conseil	55	ULAGOS	
ICES Journal of Marine Science: Journal du Conseil	36	UMAG	
ICES Journal of Marine Science: Journal du Conseil	56	UNAP	
ICES Journal of Marine Science: Journal du Conseil	360	UNATOF	
ICES Journal of Marine Science: Journal du Conseil	163	UV	
ICES Journal of Marine Science: Journal du Conseil	2038		11
ELT Journal	287	UACH	
ELT Journal	35	UBB	
ELT Journal	17	UCM	
ELT Journal	103	UCSC	
ELT Journal	56	UCT	
ELT Journal	2	UDA	
ELT Journal	59	ULAGOS	
ELT Journal	5	UMAG	
ELT Journal	40	UNAP	
ELT Journal	68	USERENA	
ELT Journal	7	UTA	
ELT Journal	679		11

Journal of Plankton Research	62	PUCV	
Journal of Plankton Research	337	UACH	
Journal of Plankton Research	74	UCN	
Journal of Plankton Research	25	UCSC	
Journal of Plankton Research	72	UCT	
Journal of Plankton Research	902	UDEC	
Journal of Plankton Research	70	ULAGOS	
Journal of Plankton Research	66	UMAG	
Journal of Plankton Research	125	UNATOF	
Journal of Plankton Research	131	UV	
Journal of Plankton Research	1865		10
Plant and Cell Physiology	71	PUCV	
Plant and Cell Physiology	12	UCM	
Plant and Cell Physiology	35	UCSC	
Plant and Cell Physiology	254	UDEC	
Plant and Cell Physiology	6	UMAG	
Plant and Cell Physiology	66	USACH	
Plant and Cell Physiology	94	USERENA	
Plant and Cell Physiology	28	UTA	
Plant and Cell Physiology	198	UTALCA	
Plant and Cell Physiology	2	UTEM	
Plant and Cell Physiology	766		10
Integrative and Comparative Biology	286	UACH	
Integrative and Comparative Biology	96	UCN	
Integrative and Comparative Biology	35	UCSC	
Integrative and Comparative Biology	2	UDA	
Integrative and Comparative Biology	13	ULAGOS	
Integrative and Comparative Biology	18	UMAG	
Integrative and Comparative Biology	70	UNATOF	
Integrative and Comparative Biology	37	USERENA	
Integrative and Comparative Biology	190	UV	

Integrative and Comparative Biology	746	9
Bioinformatics	631	PUC
Bioinformatics	47	UCN
Bioinformatics	10	UDA
Bioinformatics	499	UDEC
Bioinformatics	22	ULAGOS
Bioinformatics	124	USACH
Bioinformatics	374	UTALCA
Bioinformatics	41	UTFSM
Bioinformatics	1747	8
Journal of Antimicrobial Chemotherapy	661	PUC
Journal of Antimicrobial Chemotherapy	191	UACH
Journal of Antimicrobial Chemotherapy	808	UCHILE
Journal of Antimicrobial Chemotherapy	28	UCM
Journal of Antimicrobial Chemotherapy	808	UDEC
Journal of Antimicrobial Chemotherapy	88	USACH
Journal of Antimicrobial Chemotherapy	76	UTALCA
Journal of Antimicrobial Chemotherapy	2658	7

The total usage across these 10 titles amounts to 22,521 downloads of a total in 2010 of 83,826, or 27% of the total.

1.4. Usage by Institution

How CINCEL institutions are currently making use of the OUP content is as shown below in Table 5. In 2010, 3 institutions (UCHILE, PUC and UDEC) account for 66.63% of all usage. This compares with the same three in 2009 who accounted for 68.81% of the total usage. UACH appears to have increased their usage in 2010 and UTALCA has dropped some usage. Otherwise the picture is broadly similar, with a general trend of slightly lower usage in 2010 over 2009.

Table 5: Institutional Usage of OUP content in 2010 and 2009

2010			2009		
Institutions	2010 estimated downloads	% of total	Institution	2009 article downloads	% of total
UCHILE	25,812	30.79%	UCHILE	28,735	32.03%
PUC	19,855	23.69%	UPUC	20,138	22.45%
UDEC	10,188	12.15%	UDEC	12,850	14.33%
UACH	5,950	7.10%	UTALCA	4,808	5.36%
UTALCA	3,425	4.09%	UACH	4,739	5.28%
UV	2,651	3.16%	UV	2,921	3.26%
PUCV	2,329	2.78%	PUCV	2,468	2.75%
USACH	2,299	2.74%	USACH	2,183	2.43%
USERENA	1,772	2.11%	UFRO	2,033	2.27%
UNATOF	1,668	1.99%	UNATOF	1,463	1.63%
UFRO	1,645	1.96%	UCN	1,320	1.47%
UCN	1,588	1.89%	USERENA	819	0.91%
UCT	910	1.09%	UCSC	773	0.86%
UCSC	700	0.84%	UCM	763	0.85%
UBB	577	0.69%	UTA	666	0.74%
UTFSM	498	0.59%	ULAGOS	638	0.71%
ULAGOS	439	0.52%	UTFSM	622	0.69%
UCM	427	0.51%	UCT	609	0.68%
UNAP	420	0.50%	UBB	388	0.43%
UTA	296	0.35%	UNAP	282	0.31%
UMAG	233	0.28%	UMAG	263	0.29%
UDA	78	0.09%	UDA	109	0.12%
UPLA	42	0.05%	UTEM	59	0.07%
UTEM	19	0.02%	UPLA	54	0.06%
UMCE	5	0.01%	UMCE	0	0.00%
Totals	83,826	100.00%	2009	89,703	100.00%

Four institutions, UMCE and UTEM, UPLA and UDA have effectively not used the content at all in 2010 and a further 17 institutions are not making extensive use of the content (below 5000 downloads in 2010). Table 6, below, shows the usage for these bottom 21 institutions (84% of the institutions within CINCEL) which accounts for around 26 % of the total consortium usage for 2010 and 2009..

Table 6: Institutional Usage of OUP content in 2010 and 2009 (bottom 21 institutions)

2010			2009		
Institutions	2010 estimated downloads	% of total	Institutions	2009 downloads	% of total
UTALCA	3425	4.09%	UACH	4,739	5.28%
UV	2651	3.16%	UV	2,921	3.26%
PUCV	2329	2.78%	PUCV	2,468	2.75%
USACH	2299	2.74%	USACH	2,183	2.43%
USERENA	1772	2.11%	UFRO	2,033	2.27%
UNATOF	1668	1.99%	UNATOF	1,463	1.63%
UFRO	1645	1.96%	UCN	1,320	1.47%
UCN	1588	1.89%	USERENA	819	0.91%
UCT	910	1.09%	UCSC	773	0.86%
UCSC	700	0.84%	UCM	763	0.85%
UBB	577	0.69%	UTA	666	0.74%
UTFSM	498	0.59%	ULAGOS	638	0.71%
ULAGOS	439	0.52%	UTFSM	622	0.69%
UCM	427	0.51%	UCT	609	0.68%
UNAP	420	0.50%	UBB	388	0.43%
UTA	296	0.35%	UNAP	282	0.31%
UMAG	233	0.28%	UMAG	263	0.29%
UDA	78	0.09%	UDA	109	0.12%
UPLA	42	0.05%	UTEM	59	0.07%
UTEM	19	0.02%	UPLA	54	0.06%
UMCE	5	0.01%	UMCE	0	0.00%
TOTALS	22021	26.27%	23172		26%

2. WHICH TITLES DON'T GET CONSULTED?

Table 7 below shows the titles that weren't consulted. In 2010, 7 OUP titles in the CINCEL collection were not used at all.

Table 7: Non Consulted Titles in 2010
2010 (7 titles)
Brief Treatment and Crisis Intervention
IEICE - Transactions on Communications
IEICE - Transactions on Electronics
IEICE - Transactions on Fundamentals of Electronics, Communications and Computer Sciences
IEICE - Transactions on Information and Systems
Journal of the Royal Musical Association
Statute Law Review

Table 8 below shows the breakdown of usage by the number of articles ‘requested’ from a particular journal. An article request is the same as a full text download (HTML or PDF).

Table 8: Number of Journal titles with these number of requests in 2010 (extrapolated data used) in each Tier		
Tier	Number of Journal titles with these number of requests in 2010 (extrapolated data used) in each Tier	% of all titles in CINCEL Collection
0 Requests	7	3.37%
1-9 Requests	17	8.17%
10-49 Requests	53	25.48%
50-99 Requests	31	14.90%
100-199 Requests	29	13.94%
200-299 Requests	19	9.13%
300-399 Requests	8	3.85%
400-499 Requests	5	2.40%
500+ Requests	39	18.75%
Total:	208	100.00%

It can be noted that with the exception of UCHILE, PUC and UDEC, no institutions are using the OUP content to any great extent.

3. WHICH ARE THE MOST ACTIVE IP ADDRESSES?

OUP was unable to provide a breakdown of usage data by IP address. It can be surmised that the most active IP addresses will relate to UCHILE, PUC and UDEC.

4. WHAT IS THE RATE OF TURNAWAYS?

A turnaway means the situation where a user has tried to access an article but cannot do so because the article is associated with a journal title that is not included in CINCEL's collection.

OUP does not provide reports on the number of turnaways. However, statistics were produced by OUP for titles not included in the CINCEL agreement, some of which received usage.

For 2010, statistics have been received for 45 titles not in the CINCEL Collection. These titles received a total number of 4,627 downloads (extrapolated).

It should be noted that these titles may be subscribed to by individual institutions outside of the CINCEL agreement.

The Top 10 Non Collection titles for 2010 are shown in Table 9 below:

Table 9: Top 10 Non Collection titles for 2010	
2010	
Title	# Downloads
Tree Physiology	1542
JNCI: Journal of the National Cancer Institute	1348
Briefings in Functional Genomics	328
Molecular Plant	271
Epidemiologic Reviews	209
European Journal of Heart Failure	190
European Heart Journal Supplements	127
Neuro-Oncology	80
JNCI Monographs	67
Journal of Molecular Cell Biology	60

Publisher: Springer

The main questions to answer were:

- 1 Which titles are the most demanded by each institution?
- 2 Which titles don't get consulted?
- 3 Which are the most active IP addresses?
- 4 What is the rate of turnaways?

THE CINCEL COLLECTION

The Springer CINCEL agreement is a Collection covering 1482 titles in 2010, 1496 titles in 2009 and 1755 titles in 2008. This information was provided by CINCEL.

Limitations

The data for 2008, 2009 and 2010 was analyzed

Summary Figures:

Please see Table 1 below for the summary figures.

Table 1: Springer: Overview Consortium Expenditure and Usage			
Year	2008	2009	2010
Total amount spent with this publisher	\$610,000	\$628,300	\$647,149
Total # articles downloaded JR1	179,336	201,722	186,215
Average cost per download	\$3.40	\$3.11	\$3.48
# titles in CINCEL collection	1472	1496	1482
Average cost per title	\$347.58	\$419.99	\$436.67

The number of titles showing in Table 1 for 2008, 2009 and 2010 relates to the title matches found between the titles showing on the publisher's usage data reports and the titles listed as CINCEL collection titles in the list provided by CINCEL using the VLOOKUP function in Excel.

The total number of articles downloaded in 2010 is predicted to reduce over 2009.

The average cost per download has increased for 2010 over 2009.

The Collection has increased the number of titles by 24 for 2009 and has reduced the number of titles by 14 for 2010.

The average cost per title has increased by \$89.09 or 26% from 2008 to 2010.

1. WHICH TITLES ARE MOST DEMANDED BY THE INSTITUTIONS?

1.1. Usage Data at institutional level

The institutional usage data COUNTER JR1 reports for 2008, 2009 and 2010 are shown in the associated Excel files.

Using the COUNTER JR1 data, Institutional usage data templates were completed for 2008, 2009 and 2010 as shown in the associated Excel files.

The following information was recorded and calculated in the template (spreadsheet) for each institution:

-
- Number of Full Text Article Requests for the year (PDF + HTML). The total figure for 2010 was extrapolated.
 - Number of journal titles accessible*
 - The top 10 titles by usage (article requests)
 - The usage of each of the 10 titles previously mentioned
 - The percentage of use of each title of the total usage figure
 - The percentage of the total usage of the top 10 titles of the total usage figure
 - The number of journals with:
 - 0 Requests (a 'Request' means a full text article downloaded)
 - 1-9 Requests
 - 10-49 Requests
 - 50-99 Requests
 - 100-199 Requests
 - 200-299 Requests
 - 300-399 Requests
 - 400-499 Requests
 - 500+ Requests
 - A list of any titles with 3,000+ article requests

*The number of journals accessible for the publisher agreement was noted in the template as the same for each institution.

Each CINCEL institution can therefore review its own usage data sheet and template to see which titles were the most and least used at institutional level.

1.2. Top Ten Titles by Usage across the Consortium

For 2008 to 2010 the titles in the top ten are shown below. Please see Tables 2, 3 and 4.

Table 2: 2010 Top 10 Journals

Top 10 Journals	Article Requests	% of Total Article Requests
Marine Biology	3102	1.67%
Applied Microbiology and Biotechnology	2886	1.55%
Hydrobiologia	2134	1.15%
Journal of Applied Phycology	2063	1.11%
Intensive Care Medicine	2011	1.09%
Plant and Soil	2030	1.09%
Oecologia	1963	1.05%
Obesity Surgery	1764	0.95%
Veterinary Research Communications	1691	0.91%
Planta	1357	0.73%
Total Downloads for Top 10 in 2010	21,001	11.28%

Table 3: 2009 Top 10 Journals

Top 10 Journals	2009 Article Requests	% of Total Article Requests
Marine Biology	3802	1.88%
Applied Microbiology and Biotechnology	3037	1.51%
Hydrobiologia	2493	1.24%
Oecologia	2303	1.14%
Plant and Soil	2183	1.08%
Journal of Applied Phycology	2115	1.05%
Intensive Care Medicine	2112	1.05%
Obesity Surgery	1945	0.96%
Veterinary Research Communications	1891	0.94%

Pediatric Nephrology	1714	0.85%
Total Downloads for Top 10 in 2009	23,595	11.70%

Table 4: 2008 Top 10 Journals

Top 10 Journals	Article Requests	% of Total Article Requests
Marine Biology	3500	1.95%
Hydrobiologia	3382	1.89%
Diseases of the Colon & Rectum	2435	1.36%
Applied Microbiology and Biotechnology	2277	1.27%
Intensive Care Medicine	2231	1.24%
Oecologia	2192	1.22%
Pediatric Nephrology	1947	1.09%
Plant and Soil	1935	1.08%
Journal of Applied Phycology	1844	1.03%
Biodiversity and Conservation	1669	0.93%
Total Downloads for Top 10 in 2008	23,412	13.05%

From 2009 to 2010 the top 10 titles are fairly consistent with only one title different. *Planta* which was in 10th place in 2010 was in 19th place in 2009, and *Pediatric Nephrology* which was in 10th place in 2009 dropped to 13th place in 2010.

However, usage of the top 10 titles has reduced in numbers of articles downloaded from 23,595 in 2009 to 21,001 for 2010 (extrapolated). In 2010 11.28% of all of the usage by the consortium can be found in these top 10 titles.

For 2008, the top 10 list is mainly the same as in 2009 and 2010 but with *Diseases of the Colon and Rectum* in 3rd place (54th in 2009 and 111th in 2010) and *Diversity and Conservation* in 10th place (15th in 2009 and 11th in 2010).

1.3. Top Ten Most Shared Titles across the Consortium

Table 5 below shows the titles that are most **shared** by consortium members in 2010.

Table 4: 2010 Top Ten Most Shared Titles	2010 Article Requests	# universities using the title
Applied Microbiology and Biotechnology	2380	12
Hydrobiologia	1780	11
Marine Biology	2647	9
Journal of Applied Phycology	1264	9
Oecologia	1496	8
Plant and Soil	1444	8
Biodiversity and Conservation	690	6
Polar Biology	767	5
Plant Molecular Biology	714	4
World Journal of Microbiology and Biotechnology	620	4

The most shared title is *Applied Microbiology and Biotechnology* with 12 institutions using this title to some extent.

It was noted that there were a number of titles that appear in the top ten shared titles list (Table 5) that don't appear in the top ten list of titles by usage for 2010 (Table 2), namely:

- Biodiversity and Conservation
- Plant Molecular Biology
- Polar Biology
- World Journal of Microbiology and Biotechnology

Table 5a shows the institutional breakdown of the titles most shared by the consortium members.

Table 5a: 2010 Top Ten Most Shared Titles	2010 Article Requests extrapolated	University using title and total
Applied Microbiology and Biotechnology	107	UCN
Applied Microbiology and Biotechnology	190	UFRO
Applied Microbiology and Biotechnology	298	USACH
Applied Microbiology and Biotechnology	32	ULAGOS
Applied Microbiology and Biotechnology	478	UDEC
Applied Microbiology and Biotechnology	373	UCHILE
Applied Microbiology and Biotechnology	120	UNATOF
Applied Microbiology and Biotechnology	91	UTFSM
Applied Microbiology and Biotechnology	80	UNAP
Applied Microbiology and Biotechnology	40	UCT
Applied Microbiology and Biotechnology	144	UACH
Applied Microbiology and Biotechnology	427	PUCV
Applied Microbiology and Biotechnology		12
Hydrobiologia	170	UCN
Hydrobiologia	82	USERENA
Hydrobiologia	58	UV
Hydrobiologia	68	UMAG
Hydrobiologia	66	ULAGOS
Hydrobiologia	426	UDEC
Hydrobiologia	216	UNATOF
Hydrobiologia	71	UNAP
Hydrobiologia	38	UCSC
Hydrobiologia	155	UCT
Hydrobiologia	431	UACH
Hydrobiologia		11

Marine Biology	462	UCN	
Marine Biology	209	UV	
Marine Biology	102	UMAG	
Marine Biology	161	ULAGOS	
Marine Biology	456	UDEC	
Marine Biology	568	UNATOF	
Marine Biology	82	UNAP	
Marine Biology	101	UCSC	
Marine Biology	508	UACH	
Marine Biology			9
Journal of Applied Phycology	344	UCN	
Journal of Applied Phycology	53	UV	
Journal of Applied Phycology	88	UMAG	
Journal of Applied Phycology	85	ULAGOS	
Journal of Applied Phycology	152	UNATOF	
Journal of Applied Phycology	89	UNAP	
Journal of Applied Phycology	50	UCSC	
Journal of Applied Phycology	270	UACH	
Journal of Applied Phycology	133	PUCV	
Journal of Applied Phycology			9
Oecologia	103	UCN	
Oecologia	164	USERENA	
Oecologia	55	ULAGOS	
Oecologia	335	UDEC	
Oecologia	106	UNATOF	
Oecologia	42	UCSC	
Oecologia	203	UACH	
Oecologia	488	PUC	
Oecologia			8

Plant and Soil	62	USERENA
Plant and Soil	606	UFRO
Plant and Soil	17	UTA
Plant and Soil	101	UTALCA
Plant and Soil	275	UDEC
Plant and Soil	82	UCT
Plant and Soil	226	UACH
Plant and Soil	76	PUCV
Plant and Soil		8
Biodiversity and Conservation	84	USERENA
Biodiversity and Conservation	50	UMAG
Biodiversity and Conservation	65	ULAGOS
Biodiversity and Conservation	269	UDEC
Biodiversity and Conservation	47	UCT
Biodiversity and Conservation	175	UACH
Biodiversity and Conservation		6
Polar Biology	179	UMAG
Polar Biology	34	ULAGOS
Polar Biology	304	UDEC
Polar Biology	72	UCT
Polar Biology	179	UACH
Polar Biology		5
Plant Molecular Biology	98	USERENA
Plant Molecular Biology	121	UTALCA
Plant Molecular Biology	43	UNAP
Plant Molecular Biology	451	PUC
Plant Molecular Biology		4
World Journal of Microbiology and Biotechnology	358	UFRO
World Journal of Microbiology and Biotechnology	78	USACH

World Journal of Microbiology and Biotechnology	52	UNAP
World Journal of Microbiology and Biotechnology	132	PUCV
World Journal of Microbiology and Biotechnology		4

1.4.Usage by Institution

How CINCEL institutions are currently making use of the Springer content is as shown below in Table 6.

In 2010 three institutions (PUC, UCHILE and UDEC) account for 62.96% of all usage. This has remained fairly constant over the three year period with the same three institutions accounting for 63.33% of usage in 2009 and 60.94% in 2008.

Table 6: Institutional usage of Springer content in 2010, 2009 and 2008

Table 6: Institutional Usage of Springer content in 2010, 2009 and 2008							
Institutions	2010 estimated downloads	% of total	Percentage of use increase from 2009 to 2010	2009 downloads	% of total	2008 downloads	% of total
PUC	49788	26.74%	-3.41%	51544	25.55%	45750	25.51%
UCHILE	42900	23.04%	-7.76%	46508	23.06%	40781	22.74%
UDEC	24541	13.18%	-17.34%	29689	14.72%	22758	12.69%
UACH	10918	5.86%	-0.83%	11009	5.46%	10690	5.96%
USACH	6281	3.37%	-6.69%	6731	3.34%	8623	4.81%
UTALCA	6188	3.32%	-5.21%	6528	3.24%	3986	2.22%
UCN	5910	3.17%	-14.87%	6942	3.44%	6386	3.56%
UFRO	5806	3.12%	-10.99%	6523	3.23%	6357	3.54%
PUCV	5789	3.11%	-24.16%	7633	3.78%	6844	3.82%
UNATOF	5090	2.73%	4.32%	4879	2.42%	2048	1.14%
UV	3701	1.99%	23.33%	3001	1.49%	3797	2.12%
USERENA	3170	1.70%	17.28%	2703	1.34%	3706	2.07%
UTFSM	3152	1.69%	-19.94%	3937	1.95%	612	0.34%
UNAP	2647	1.42%	17.18%	2259	1.12%	2078	1.16%
UCT	2324	1.25%	3.61%	2243	1.11%	1449	0.81%
UCSC	1835	0.99%	-21.75%	2345	1.16%	2512	1.40%
ULAGOS	1462	0.79%	-36.10%	2288	1.13%	2352	1.31%
UMAG	1211	0.65%	-0.57%	1218	0.60%	1408	0.79%
UCM	996	0.53%	-29.41%	1411	0.70%	1152	0.64%
UBB	984	0.53%	3.58%	950	0.47%	630	0.35%
UTA	918	0.49%	7.24%	856	0.42%	405	0.23%
UDA	438	0.24%	-7.98%	476	0.24%	974	0.54%
UPLA	115	0.06%	109.09%	55	0.03%	1	0.00%
UTEM	50	0.03%	12400.00%	0	0.00%	0	0.00%
UMCE	1	0.00%	0.00%	1	0.00%	0	0.00%
Totals	186215	100.00%		201722	100.00%	179336	100.00%

Two institutions, UMCE and UTEM, have effectively not used the content at all in 2010 and a further 13 institutions are not making extensive use of the content (below 5000 downloads in 2010). Table 6a, below, shows the usage for these bottom 15 institutions (67% of the institutions within CINCEL) accounts for 12.35% of the total consortium usage for 2010.

Table 6a: Institutional Usage of Springer content in 2010 and 2009 (bottom 15 institutions)						
Institutions	2010 estimated downloads	% of total	2009 downloads	% of total	2008 downloads	% of total
UV	3701	1.99%	3001	1.49%	3797	18.02%
USERENA	3170	1.70%	2703	1.34%	3706	17.58%
UTFSM	3152	1.69%	3937	1.95%	612	2.90%
UNAP	2647	1.42%	2259	1.12%	2078	9.86%
UCT	2324	1.25%	2243	1.11%	1449	6.88%
UCSC	1835	0.99%	2345	1.16%	2512	11.92%
ULAGOS	1462	0.79%	2288	1.13%	2352	11.16%
UMAG	1211	0.65%	1218	0.60%	1408	6.68%
UCM	996	0.53%	1411	0.70%	1152	5.47%
UBB	984	0.53%	950	0.47%	630	2.99%
UTA	918	0.49%	856	0.42%	405	1.92%
UDA	438	0.24%	476	0.24%	974	4.62%
UPLA	115	0.06%	55	0.03%	1	0.00%
UTEM	50	0.03%	0	0.00%	0	0.00%
UMCE	1	0.00%	1	0.00%	0	0.00%
TOTALS	23004	12.35%	23743	11.77%	21076	100.00%

Overall usage for 2010 has dropped by 15,507 downloads or by 8%.

Nine institutions have increased their usage for 2010 over 2009, although it should be noted that at least 14 institutions' usage has decreased for 2010, dramatically so at UDEC (down 17.34%), PUCV (down 24.16%), UTFSM (down 19.94%), UCSC (down 21.75%), ULAGOS (down 36.10%) and UCM (down 29.41%).

2. WHICH TITLES DON'T GET CONSULTED?

In 2010, 44 Springer titles in the CINCEL collection were not used at all. For 2009, 47 titles were not consulted. Those titles which were not consulted for more than one year have been italicized in Table 7 below.

Table 7: Non Consulted Titles (those in italics are those which were not consulted for more that one year)	
2009 (47 titles)	2010 (44 titles)
<i>Acta Mechanica Solida Sinica</i>	Acta Linguistica Hungarica
<i>Annals of Diagnostic Paediatric Pathology</i>	<i>Acta Mechanica Solida Sinica</i>
Archives and Museum Informatics	Algebra Colloquium
<i>Baurechtliche Blätter: bbl</i>	<i>Annals of Diagnostic Paediatric Pathology</i>
Bioanalytical Reviews	Annals of Oncology
Biophysical Reviews	<i>Baurechtliche Blätter: bbl</i>
<i>Die Weltwirtschaft</i>	Best Practice Onkologie
Electronic Markets	CME: Premium-Fortbildung für die medizinische Praxis
<i>European Finance Review</i>	Datenschutz und Datensicherheit - DuD
Flexible Services and Manufacturing Journal	Der Urologe B
International Journal of Angiology	<i>Die Weltwirtschaft</i>
Journal für Betriebswirtschaft	<i>European Finance Review</i>
<i>Journal of Computer-Assisted Microscopy</i>	Geriatric Nephrology and Urology
Journal of Electronic Testing	HEPAC Health Economics in Prevention and Care
Journal of Near-Death Studies	Integrative Physiological and Behavioral Science
Journal of Systems Integration	Journal of Advancement in Medicine
<i>Lebanese Medical Journal</i>	Journal of Biomedical Science
<i>Lettera Matematica Pristem</i>	<i>Journal of Computer-Assisted Microscopy</i>

LISP and Symbolic Computation	Journal of Economic Interaction and Coordination
LO SCALPELLO - OTODI Educational	Journal of Gender, Culture, and Health
<i>Molecules</i>	<i>Lebanese Medical Journal</i>
<i>Obere Extremität</i>	<i>Lettera Matematica Pristem</i>
Optical Networks Magazine	<i>Molecules</i>
<i>Pädiatrie und Pädologie</i>	<i>Obere Extremität</i>
Pathologica	Order
<i>Personal Technologies</i>	<i>Pädiatrie und Pädologie</i>
<i>ProCare</i>	<i>Personal Technologies</i>
<i>Proteome</i>	Prävention und Gesundheitsförderung
<i>Psychiatrie und Psychotherapie</i>	<i>ProCare</i>
<i>Psychopraxis</i>	<i>Proteome</i>
<i>Psychopraxis</i>	<i>Psychiatrie und Psychotherapie</i>
Reproduktionsmedizin	<i>Psychopraxis</i>
<i>Review of Finance</i>	<i>Psychopraxis</i>
<i>Sciences of Soils</i>	<i>Review of Finance</i>
<i>Scientific Modeling and Simulation</i>	Revue Francophone de Psycho-Oncologie
<i>Software - Concepts & Tools</i>	<i>Sciences of Soils</i>
Spatial Cognition and Computation	<i>Scientific Modeling and Simulation</i>
System Familie	<i>Software - Concepts & Tools</i>
The Journal of Comparative Germanic Linguistics	Spektrum der Augenheilkunde
<i>Thexis Fachzeitschrift für Marketing</i>	<i>Thexis Fachzeitschrift für Marketing</i>
uwf - UmweltWirtschaftsForum	wohnrechtliche blätter: wobI
Wirtschaftsdienst	<i>Zphys-e.A</i>
Zeitschrift für Hochschulrecht, Hochschulmanagement und Hochschulpolitik: zfhr	<i>Zphys-e.B</i>
Zeitschrift für öffentliches Recht	<i>Zphys-e.C</i>
<i>Zphys-e.A</i>	
<i>Zphys-e.B</i>	

Table 8 below shows the breakdown of usage by the number of articles ‘requested’ from a particular journal. An article request is the same as a full text download (HTML or PDF).

Table 8: Number of Journals titles with these number of requests in 2010 (extrapolated data used) in each Tier

Table 8: Number of Journal titles with these number of requests in 2010 (extrapolated data used) in each Tier		
Tier	Number of Journal titles with these number of requests in 2010 (extrapolated data used) in each Tier	% of all titles in CINCEL Collection
0 Requests	44	2.97%
1-9 Requests	239	16.13%
10-49 Requests	516	34.82%
50-99 Requests	239	16.13%
100-199 Requests	207	13.97%
200-299 Requests	73	4.93%
300-399 Requests	60	4.05%
400-499 Requests	30	2.02%
500+ Requests	74	4.99%
Total:	1482	100.00%

It can be noted that with the exception of UCHILE, PUC and UDEC, no institutions have been using the Springer content to any great extent.

3. WHICH ARE THE MOST ACTIVE IP ADDRESSES?

Springer was unable to provide a breakdown of usage data by IP address.

It can surmise that the most active IP addresses will relate to UCHILE, PUC and UDEC.

4. WHAT IS THE RATE OF TURNAWAYS?

A turnaway means the situation where a user has tried to access an article but cannot do so because the article is associated with a journal title that is not included in CINCEL's collection.

Springer does not provide reports on the number of turnaways. However, statistics were produced by Springer for titles not included in the CINCEL agreement, some of which received usage.

For 2009 the list contains 872 titles not in the CINCEL Collection which received a total number of 9,011 downloads.
For 2010 the list contains 1190 titles not in the CINCEL Collection which received a total number of 11,324 downloads.

It should be noted that these titles may be subscribed to by individual institutions outside of the CINCEL agreement.

The Top 10 Non Collection titles are shown in Table 9 below:

Table 9: Top 10 Non Collection titles for 2009 and 2010			
2009		2010	
Title	# Downloads	Title	# Downloads (Extrapolated)
Applied Biochemistry and Biotechnology	409	Cellular and Molecular Life Sciences	1433
Canadian Journal of Anesthesia / Journal canadien d'anesthésie	361	Journal of Industrial Microbiology & Biotechnology	865
Clinical Orthopaedics and Related Research®	331	Clinical Orthopaedics and Related Research®	488
Estuaries and Coasts	289	European Journal of Wood and Wood Products	488
Evolution: Education and Outreach	264	Canadian Journal of Anesthesia / Journal canadien d'anesthésie	454
The Journal of Nutrition, Health and Aging	241	Environmental Geology	365
Archives of Pharmacal Research	213	Estuaries and Coasts	310
Biotechnology and Bioprocess Engineering	196	Applied Biochemistry and Biotechnology	302
Food and Bioprocess Technology	154	Chinese Science Bulletin	172
Neurotoxicity Research	149	Evolution: Education and Outreach	167

Publisher: Wiley Blackwell (WB)

The main questions to answer were:

- 1 Which titles are the most demanded by each institution?
- 2 Which titles don't get consulted?
- 3 Which are the most active IP addresses?
- 4 What is the rate of turnaways?

THE CINCEL COLLECTION

The WB CINCEL agreement is a Collection covering approximately 1291 titles in total in 2010, 1266 titles in 2009 and 1428 titles in 2008. This information was provided by CINCEL.

Limitations

Due to the change in platform at WB, usage data for 2009 and 2010 was collected via the older route/platform in order to provide a similar comparison to the data collected for 2008 (previously). At the time the data was collected, the 2010 data was available only up to August 2010 using this method. Collecting statistics via the new platform would have limited 2010 usage data to figures for one month at the time of collecting the data.

CINCEL provided a title list for Wiley and Blackwell separately. The publisher now no longer separates these titles in terms of purchasing and so combined usage data was collected for 2009 and 2010.

Due to the complexities of working with the lists and much time spent trying to obtain clean look up lists to work with, it was decided that for 2010, the comparison would be made using VLOOKUP to compare the complete usage data lists against the titles lists provided by CINCEL but no separation of 'collection' usage was made. It was noted that some of the titles reported on with usage would therefore relate to non-collection titles. This aspect is discussed further in the report below. For 2009 an attempt was made to only collect usage data relating to titles in the CINCEL collection. It is impossible to guarantee that all titles in the CINCEL collection have been captured due to the Wiley-Blackwell merger and the associated platform changes.

Summary Figures:

Table 1 below shows the summary figures. It shows the 2010 **actual** usage figure as 298,775 and the average cost per download of US\$5.38, which is still a high average cost per download. The earlier estimated figures which were produced for the interim report are in brackets.

Table 1: Wiley Blackwell: Overview Consortium Expenditure and Usage REVISED MARCH 2011			
Year	2008	2009	2010
Total amount spent with this publisher	US\$ 1,439,215.00	US\$ 1,522,681.00	US\$ 1,606,665.00
Total # Articles downloaded *	268,653	237,869	298,775 (232,562)
Average cost per download	US\$ 5.36	US\$ 6.40	US\$ 5.38 (US\$ 6.91)
# titles in CINCEL collection (approximate)	1428	1266	1291
Average cost per title	US\$ 1,007.85	US\$ 1,202.75	US\$ 1,244.51

**For 2010 usage was reviewed across all titles (1934) downloaded. For 2009 an attempt was made to only collect usage data relating to titles in the CINCEL collection. It is impossible to guarantee that all titles in the CINCEL collection have been captured. Please note that the 2008 data shown in Table 1 relates purely to information provided by CINCEL.*

Report JR1b was used for 2009 and 2010 downloads. This report shows usage for the 'front file'.

The number of titles in the CINCEL collection for each year was based on the title lists provided by CINCEL.

Due to titles transferring in and out of the collection the usage data reported on cannot be seen as exactly "like for like" from one year to the next.

The total number of articles downloaded in 2010 increased by 20% over 2009 and by 11% over 2008; however it went down by 11% from 2008 to 2009. The average cost per download in 2010 has dropped over 2009 due to increased usage yet it remains almost the same as in 2008.

The number of titles accessible in the CINCEL collection in 2010 over 2009 is slightly higher, but less than those available during 2008. The average cost per title has increased by US\$ 236 or 23.5% from 2008 to 2010.

1. WHICH TITLES ARE MOST DEMANDED BY THE INSTITUTIONS?

1.1. Usage Data at institutional level

The institutional usage data JR1b reports for 2009 and 2010 are shown in the associated Excel files. These usage reports report on front file usage only.

Using the JR1b data, Institutional usage data templates were completed for 2009 and 2010 as shown in the associated Excel files. The following information was recorded and calculated in the template (spreadsheet) for each institution:

- Number of Full Text Article Requests for the year (PDF + HTML). The total figure for 2010 was extrapolated.
- Number of journal titles accessible*
- The top 10 titles by usage (article requests)
- The usage of each of the 10 titles previously mentioned
- The percentage of use of each title of the total usage figure
- The percentage of the total usage of the top 10 titles of the total usage figure
- The number of journals with:
 - 0 Requests (a 'Request' means a full text article downloaded)
 - 1-9 Requests
 - 10-49 Requests
 - 50-99 Requests
 - 100-199 Requests
 - 200-299 Requests
 - 300-399 Requests
 - 400-499 Requests
 - 500+ Requests
- A list of any titles with 3,000+ article requests

*The number of journals accessible for the publisher agreement was noted in the template as the same for each institution.

Each CINCEL institution can therefore review its own usage data sheet and template to see which titles were the most and least used at institutional level.

1.2. Top Ten Titles by Usage across the Consortium

The titles in the top ten for 2009 and 2010 are shown below in Tables 2 and 3 below.

Table 2: 2010 TOP 10 JOURNALS	2010 Article Requests (extrapolated)	% of Total Article Requests
Journal of Clinical Periodontology	5382	2.31%
Monthly Notices of the Royal Astronomical Society	2109	0.91%
Annals of the New York Academy of Sciences	2030	0.87%
Periodontology 2000	1692	0.73%
Hepatology	1617	0.70%
Journal of Neurochemistry	1577	0.68%
Arthritis and Rheumatism	1280	0.55%
Molecular Ecology	1259	0.54%
Veterinary Surgery	1235	0.53%
International Endodontic Journal	1125	0.48%
Total	19,306	8.30%

Table 3: 2009 TOP 10 JOURNALS	2009 Article Requests	% of Total Article Requests
Annals of the New York Academy of Sciences	3004	1.27%
Monthly Notices of the Royal Astronomical Society	2460	1.04%
Journal of Clinical Periodontology	2393	1.01%
Periodontology 2000	1829	0.77%
Molecular Ecology	1610	0.68%
Epilepsia	1435	0.60%
Journal of Oral Rehabilitation	1374	0.58%
Biotechnology and Bioengineering	1362	0.57%
Journal of the American Geriatrics Society	1181	0.50%
Journal of Neurochemistry	1167	0.49%
Total	17,815	7.49%

It can be seen from Tables 2 and 3 that *Heptaology*, *Arthritis and Rheumatism*, *Veterinary Surgery*, and *International Endodontic Journal* replace *Epilepsia*, *Journal of Oral Rehabilitation*, *Biotechnology and Bioengineering* and *Journal of the American Geriatrics Society* in the top ten list of titles by usage in 2010 compared to 2009.

The total usage of 19,306 full text downloads for the top ten titles in 2010 is higher than the figure of 17,815 for the top ten titles in 2009, or an increase of 8.4%.

8.3% of all the consortium's usage in 2010 can be found in these top ten titles. During 2009 the top ten titles accounted for 7.51% of all usage.

Consortium level data (parent level data) was also collected which presumably includes usage data relating to Adolfo Ibáñez and Andrés Bello. However, it was found that 80% of the usage came from 357 titles. These titles are shown in [Wiley-Blackwell Appendix A](#).

1.3. Top Ten Most Shared Titles across the Consortium

Table 4 below shows the titles that are most **shared** by consortium members in 2010.

The most shared title is *Journal of Clinical Periodontology* with 8 institutions using this title to some extent. It was noted that there were a number of titles that appear in the top ten shared titles list (Table 4) that don't appear in the top ten list of titles by usage (Table 2).

	2010 Article Requests extrapolated	University using title and total
Table 4: 2010 Top Ten Most Shared Titles		
Angewandte Chemie International Edition	80	UCN
Angewandte Chemie International Edition	54	UTFSM
Angewandte Chemie International Edition	23	UNATOF
Angewandte Chemie International Edition	336	UDEC
Angewandte Chemie International Edition	146	USACH
Angewandte Chemie International Edition		5
Aquaculture Research	117	UCT
Aquaculture Research	143	UCN
Aquaculture Research	62	UNAP

Aquaculture Research	41	UNATOF	
Aquaculture Research	57	ULAGOS	
Aquaculture Research			5
Biotechnology and Bioengineering	627	PUCV	
Biotechnology and Bioengineering	35	UCT	
Biotechnology and Bioengineering	90	UCN	
Biotechnology and Bioengineering	83	UTFSM	
Biotechnology and Bioengineering	86	UFRO	
Biotechnology and Bioengineering			5
Clinical Oral Implants Research	149	PUCV	
Clinical Oral Implants Research	84	UCSC	
Clinical Oral Implants Research	302	USACH	
Clinical Oral Implants Research	165	UTALCA	
Clinical Oral Implants Research	149	UV	
Clinical Oral Implants Research	84	UFRO	
Clinical Oral Implants Research			6
International Endodontic Journal	158	PUCV	
International Endodontic Journal	137	UCSC	
International Endodontic Journal	501	UDEC	
International Endodontic Journal	173	UTALCA	
International Endodontic Journal	158	UV	
International Endodontic Journal			5
Journal of Applied Polymer Science	32	UTEM	
Journal of Applied Polymer Science	471	UDEC	
Journal of Applied Polymer Science	164	USACH	
Journal of Applied Polymer Science	15	UTA	
Journal of Applied Polymer Science	48	UBB	
Journal of Applied Polymer Science			5
Journal of Clinical Periodontology	213	PUCV	
Journal of Clinical Periodontology	185	UACH	
Journal of Clinical Periodontology	791	UCSC	

Journal of Clinical Periodontology	32	UNATOF
Journal of Clinical Periodontology	719	UCHILE
Journal of Clinical Periodontology	3020	UTALCA
Journal of Clinical Periodontology	212	UV
Journal of Clinical Periodontology	213	UFRO
Journal of Clinical Periodontology		8
Journal of Fish Biology	48	UCT
Journal of Fish Biology	129	UCN
Journal of Fish Biology	26	UNAP
Journal of Fish Biology	44	ULAGOS
Journal of Fish Biology	35	UPLA
Journal of Fish Biology		5
Journal of Food Science	62	UTFSM
Journal of Food Science	47	ULAGOS
Journal of Food Science	213	USACH
Journal of Food Science	141	UFRO
Journal of Food Science	186	USERENA
Journal of Food Science	93	UBB
Journal of Food Science		6
Monthly Notices of the Royal Astronomical Society	5	CONICYT
Monthly Notices of the Royal Astronomical Society	1074	PUC
Monthly Notices of the Royal Astronomical Society	161	PUCV
Monthly Notices of the Royal Astronomical Society	80	UCN
Monthly Notices of the Royal Astronomical Society	536	UCHILE
Monthly Notices of the Royal Astronomical Society	161	UV
Monthly Notices of the Royal Astronomical Society	95	USERENA
Monthly Notices of the Royal Astronomical Society		7
Periodontology 2000	234	UCSC
Periodontology 2000	879	UCHILE
Periodontology 2000	338	UTALCA

Periodontology 2000	147	UV
Periodontology 2000	95	UFRO
Periodontology 2000		5

1.4. Usage by Institution

How CINCEL institutions made use of all the Wiley Blackwell 2009 and 2010 content available online is as shown below in Table 5.

Four institutions, UCHILE, PUC, UDEC and PUCV account for 68.21% of the accesses in 2009 and the same institutions plus UACH and UTALCA (so 6 institutions) account for 79.74% of all of the usage in 2010.

UACH has shown a significant increase in usage from 2009 to 2010. Apart from this institution's increase in usage there is little change in usage patterns by other institutions.

UMCE and UTEM did not use the content at all in 2009. In 2010 UTEM and UDA made very low use of the content. Again UMCE made no use of the content.

Table 5: Institutional usage of Wiley Blackwell content in 2010 and 2009

Institutions	2010 estimated Downloads (all content)	2010 % of total	2009 downloads (limited to CINCEL Collection)	2009 % of total	Percentage of use increase from 2009 to 2010
PUC	72276	31.08%	75795	31.94%	-0.86%
UCHILE	50972	21.92%	56038	23.61%	-1.69%
UDEC	28176	12.12%	29909	12.60%	-0.48%
UACH	13709	5.89%	772	0.33%	5.56%
PUCV	12149	5.22%	15748	6.64%	-1.42%
UTALCA	10704	4.60%	8185	3.45%	1.15%
USACH	7580	3.26%	6413	2.70%	0.56%
UV	6614	2.84%	8942	3.77%	-0.93%
UFRO	5846	2.51%	6054	2.55%	-0.04%
UCN	4554	1.96%	5461	2.30%	-0.34%
UCSC	3626	1.56%	392	0.17%	1.39%
USERENA	3396	1.46%	3268	1.38%	0.08%

UTFSM	2022	0.87%	2503	1.05%	-0.18%
UCT	1995	0.86%	3008	1.27%	-0.41%
ULAGOS	1758	0.76%	2606	1.10%	-0.34%
UNATOF	1470	0.63%	3983	1.68%	-1.05%
UBB	1398	0.60%	2052	0.86%	-0.26%
UCM	1073	0.46%	1423	0.60%	-0.14%
UMAG	698	0.30%	966	0.41%	-0.11%
UNAP	651	0.28%	562	0.24%	0.04%
UTA	594	0.26%	1256	0.53%	-0.27%
UPLA	555	0.24%	646	0.27%	-0.03%
CONICYT	414	0.18%	148	0.06%	0.12%
UTEM	291	0.13%	0	0.00%	0.00%
UDA	41	0.02%	190	0.08%	-0.06%
UMCE	0	0.00%	0	0.00%	0.00%
Totals	232,562	100.00%	237,320	100.00%	

Overall usage for 2010 has dropped by 4,758 downloads over 2009, or around 2%. These are still the estimated data.

2. WHICH TITLES DON'T GET CONSULTED?

In 2010 the WB titles were used to a very limited extent across all CINCEL members.

CINCEL's collection of titles comprises around 1291 titles. The titles available in the 2010 usage data reports totaled 1934 titles, so a difference of 643 titles.

Table 6 below shows the breakdown of usage by the total number of articles 'requested' for each journal.

An article request is the same as a full text download (HTML or PDF). Table 6 uses consortium level data which may include data relating to Andrés Bello and Adolfo Ibáñez also. However, the full data give a basic overview of how the titles are used.

It can be seen that 396 titles or around 20% of all titles have not had any accesses. Only around 5% of the titles, or 104 titles, have seen usage of over 500 downloads each in 2010. This averages at around 19 downloads in a year per title per institution. **By any criteria this cannot be considered good usage.**

Table 6: Number of journals with corresponding number of article requests.

Tier	Number of Journal titles in tier	% of all titles in CINCEL collection
0 Requests	396	20.5%
1-9 Requests	377	19.5%
10-49 Requests	476	24.6%
50-99 Requests	207	10.7%
100-199 Requests	195	10.1%
200-299 Requests	81	4,2%
300-399 Requests	53	2.7%
400-499 Requests	45	2.3%
500+ Requests	104	5.4%
Total:	1934	100.00%

It can be noted that with the exception of UCHILE, PUC and UDEC, no institutions are using Wiley Blackwell content to any great extent. UCHILE, PUC and UDEC account for around 65% of the total usage in 2010.

3. WHICH ARE THE MOST ACTIVE IP ADDRESSES?

Wiley Blackwell was unable to provide a breakdown of usage data by IP address.

It can be surmised that the most active IP addresses will relate to UCHILE, PUC and UDEC.

4. WHAT IS THE RATE OF TURNAWAYS?

A turnaway means the situation where a user has tried to access an article but cannot do so because the article is associated with a journal title that is not included in CINCEL's collection.

The turnaway reports are not available.

It is noted that some institutions currently subscribe separately to these titles outside the CINCEL agreement and therefore a turnaways report if available should be considered in conjunction with the usage figures of the subscribing institutions to the same titles.

WILEY-BLACKWELL APPENDIX A - MOST USED TITLES IN 2010 WILEY BLACKWELL

MOST USED TITLES IN 2010 (to AUGUST 2010)

Title	Year to date PDF downloads
DATA INCLUDES ANDRES BELLO AND ADOLFO IBÁÑEZ	
Journal of Clinical Periodontology	3354
Annals of the New York Academy of Sciences	1717
Periodontology 2000	1677
Molecular Ecology	1590
Biotechnology and Bioengineering	1380
Monthly Notices of the Royal Astronomical Society	1350
Journal of Food Science	1202
Journal of Neurochemistry	1159
Hepatology	1133
Angewandte Chemie International Edition	1110
Epilepsia	1107
Clinical Oral Implants Research	1067
The Plant Journal	1051
Cancer	1012
Veterinary Surgery	998
Arthritis & Rheumatism	965
Molecular Microbiology	963
Conservation Biology	931
Journal of Biogeography	893
New Phytologist	890
Journal of Oral Rehabilitation	860
Ecology Letters	846
Journal of the Science of Food and Agriculture	845
The Laryngoscope	843

Title	Year to date PDF downloads
Aquaculture Research	828
Journal of Applied Microbiology	819
Ultrasound in Obstetrics and Gynecology	817
Pediatric Pulmonology	804
Journal of Fish Diseases	767
Journal of Cellular Physiology	742
International Endodontic Journal	720
Journal of Applied Polymer Science	715
FEMS Microbiology Letters	670
Dental Traumatology	665
European Journal of Neuroscience	660
Journal of Cellular Biochemistry	657
International Journal of Cancer	638
Journal of Fish Biology	600
Earthquake Engineering & Structural Dynamics	585
Acta Paediatrica	579
Plant, Cell & Environment	579
Journal of Phycology	566
Environmental Microbiology	564
American Journal of Physical Anthropology	559
Pediatric Anesthesia	544
Alimentary Pharmacology & Therapeutics	542
Architectural Design	541
Oikos	540
Evolution	537
FEMS Microbiology Ecology	537
British Journal of Dermatology	535
Physiologia Plantarum	535
PROTEOMICS	529
The Journal of Comparative Neurology	507
Transfusion	499
Chemistry - A European Journal	495

Title	Year to date PDF downloads
Global Change Biology	492
Medical Education	491
British Journal of Surgery	487
BJOG: An International Journal of Obstetrics & Gynaecology	485
Phytotherapy Research	475
Veterinary Radiology & Ultrasound	470
European Journal of Lipid Science and Technology	463
Journal of Neuroscience Research	462
Muscle & Nerve	462
Veterinary Anaesthesia and Analgesia	458
Electroanalysis	456
FEBS Journal	451
BioEssays	450
Letters in Applied Microbiology	448
Hydrological Processes	447
International Journal of Food Science & Technology	435
Anaesthesia	434
Reproduction in Domestic Animals	416
American Journal of Transplantation	414
Journal of Esthetic and Restorative Dentistry	412
Clinical Microbiology and Infection	401
Journal of Chemical Technology & Biotechnology	400
Journal of Cutaneous Pathology	395
Journal of Evolutionary Biology	395
Clinical Endocrinology	394
Prenatal Diagnosis	389
Advanced Materials	388
FEMS Microbiology Reviews	388
Journal of Gastroenterology and Hepatology	387
Allergy	386
Inflammatory Bowel Diseases	380
Global Ecology and Biogeography	378

Title	Year to date PDF downloads
American Journal of Medical Genetics Part A	377
Molecular Nutrition & Food Research	372
Journal of Ecology	370
Glia	365
British Journal of Haematology	359
European Journal of Immunology	356
Strategic Management Journal	353
Developmental Dynamics	351
Histopathology	348
Freshwater Biology	347
Journal of Applied Ecology	347
Journal of Oral Pathology & Medicine	345
Journal of Small Animal Practice	339
Veterinary Ophthalmology	339
Proteins: Structure, Function, and Bioinformatics	338
Functional Ecology	334
Developmental Medicine & Child Neurology	330
International Journal of Paediatric Dentistry	329
Journal of Surgical Oncology	326
Ecography	325
Journal of Animal Ecology	324
Clinical Anatomy	318
Pediatric Blood & Cancer	317
Immunological Reviews	316
Journal of Veterinary Emergency and Critical Care	315
Journal of Veterinary Pharmacology and Therapeutics	315
Microscopy Research and Technique	314
Journal of Child Psychology and Psychiatry	313
Journal of the American Geriatrics Society	313
Traffic	311
Austral Ecology	304
International Journal of Dermatology	301

Title	Year to date PDF downloads
Veterinary Dermatology	301
The Structural Design of Tall and Special Buildings	300
Annals of Neurology	299
Pest Management Science	297
Cellular Microbiology	296
Obesity Reviews	295
European Journal of Inorganic Chemistry	292
Electrophoresis	291
Movement Disorders	291
Community Dentistry and Oral Epidemiology	289
Biological Journal of the Linnean Society	287
BJU International	287
Aquaculture Nutrition	286
STEM CELLS	286
Teaching Statistics	284
European Journal of Neurology	282
Oral Diseases	282
Pediatric Diabetes	275
FEMS Yeast Research	274
Diversity and Distributions	273
Liver Transplantation	273
Pediatric Dermatology	273
Journal of Bone and Mineral Research	272
Acta Anaesthesiologica Scandinavica	271
European Journal of Dental Education	271
Journal of Thrombosis and Haemostasis	271
Journal of Prosthodontics	269
Nutrition Reviews	269
Journal of the American Society for Information Science and Technology	267
Seminars in Dialysis	266
Journal of Polymer Science Part A: Polymer Chemistry	265
British Journal of Pharmacology	262

Title	Year to date PDF downloads
Animal Conservation	260
Journal of Plant Nutrition and Soil Science / Zeitschrift für Pflanzenernährung und Bodenkunde	257
The Journal of Pathology	256
Academic Emergency Medicine	255
Molecular Ecology Resources	255
Rapid Communications in Mass Spectrometry	254
European Journal of Organic Chemistry	253
Alcoholism: Clinical and Experimental Research	252
AIChE Journal	251
Journal of Pharmaceutical Sciences	251
Molecular Reproduction and Development	251
Acta Psychiatrica Scandinavica	250
Head & Neck	249
Journal of Raman Spectroscopy	247
Statistics in Medicine	245
Clinical and Experimental Dermatology	244
Ethology	241
Human Mutation	240
International Journal of Climatology	240
Aquatic Conservation: Marine and Freshwater Ecosystems	239
Colorectal Disease	238
Marine Mammal Science	238
Journal of Integrative Plant Biology	237
International Journal of Quantum Chemistry	236
Journal of Computational Chemistry	235
Journal of the European Academy of Dermatology and Venereology	235
Starch / Stärke	233
American Journal of Medical Genetics Part A	232
Journal of Food Process Engineering	232
Molecular Ecology Notes	232
Photochemistry and Photobiology	232

Title	Year to date PDF downloads
Ground Water	228
Hippocampus	228
Journal of Biomedical Materials Research Part A	227
Journal of Advanced Nursing	225
European Journal of Biochemistry	223
Journal of Regional Science	221
American Journal of Hematology	220
Clinical & Experimental Immunology	220
River Research and Applications	220
IUBMB Life	216
Journal of Periodontal Research	215
International Journal of Eating Disorders	214
Journal of Medical Virology	214
Journal of Separation Science	211
Grass and Forage Science	210
Oral Microbiology and Immunology	202
Phytochemical Analysis	202
Ecological Entomology	200
Helicobacter	200
Journal of Orthopaedic Research	197
Yeast	197
Dermatologic Surgery	196
Liver International	194
Journal of Clinical Nursing	192
Plant Biology	190
Journal of Zoology	189
Diabetic Medicine	187
Bipolar Disorders	182
Journal of Applied Ichthyology	182
Journal of Physical Organic Chemistry	182
Child Development	181
Depression and Anxiety	181

Title	Year to date PDF downloads
Haemophilia	180
Journal of Basic Microbiology	180
Australian Veterinary Journal	178
European Journal of Oral Sciences	177
Respirology	177
International Journal of Osteoarchaeology	176
International Journal for Numerical Methods in Engineering	174
Journal of Marriage and Family	173
Restoration Ecology	173
American Journal of Human Biology	171
ChemInform	170
Clinical and Experimental Pharmacology and Physiology	170
Gerodontology	170
Neurogastroenterology & Motility	170
Biological Reviews	168
Biotechnology Journal	168
Entomologia Experimentalis et Applicata	168
Clinical & Experimental Allergy	165
Clinical Genetics	165
International Journal of Clinical Practice	165
Journal of Internal Medicine	165
Plant Pathology	165
Immunology	163
Pediatric Allergy and Immunology	162
British Journal of Clinical Pharmacology	161
ChemBioChem	161
The Prostate	161
Cancer Science	160
Journal of Animal Physiology and Animal Nutrition	160
Journal of Forensic Sciences	159
Invertebrate Biology	158
Dermatologic Therapy	157

Title	Year to date PDF downloads
Acta Neurologica Scandinavica	156
Comprehensive Reviews in Food Science and Food Safety	155
Annals of Applied Biology	154
Journal of Neuroendocrinology	154
Australian Journal of Grape and Wine Research	152
ChemPhysChem	152
Journal of the World Aquaculture Society	151
Synapse	151
Biopolymers	148
International Journal of Training and Development	148
Journal of Quaternary Science	148
Vox Sanguinis	147
Botanical Journal of the Linnean Society	146
Journal of Morphology	146
British Journal of Educational Technology	145
Packaging Technology and Science	145
Acta Physiologica	143
Fisheries Science	143
Journal of Paediatrics and Child Health	142
Macromolecular Chemistry and Physics	142
Advanced Functional Materials	141
Earth Surface Processes and Landforms	141
Family Process	141
JAWRA Journal of the American Water Resources Association	141
Magnetic Resonance in Medicine	141
Geophysical Journal International	139
Journal der Deutschen Dermatologischen Gesellschaft	139
Journal of Clinical Psychology	139
International Journal of Geriatric Psychiatry	138
Biofuels, Bioproducts and Biorefining	137
Animal Genetics	135
Marine Ecology	135

Title	Year to date PDF downloads
Journal of Magnetic Resonance Imaging	134
Small	134
Journal of Anatomy	133
Journal of Food Processing and Preservation	133
International Journal for Numerical Methods in Fluids	132
Headache: The Journal of Head and Face Pain	131
Journal of Research in Science Teaching	131
Journal of Traumatic Stress	131
Nephrology	130
Science Education	130
Journal of Cardiovascular Electrophysiology	129
Journal of Obstetrics and Gynaecology Research	129
Journal of Veterinary Internal Medicine	129
FEMS Immunology & Medical Microbiology	128
Journal of Applied Entomology	128
Diabetes, Obesity and Metabolism	126
Engineering in Life Science	126
Biotropica	125
Ibis	125
Journal of Polymer Science Part B: Polymer Physics	125
Pharmacoepidemiology and Drug Safety	125
Reviews in Medical Virology	125
Addiction	124
Sustainable Development	124
Annals of Human Genetics	123
Chemical Engineering & Technology - CET	123
Macromolecular Rapid Communications	123
Journal of Applied Social Psychology	122
American Journal of Reproductive Immunology	121
Chemistry & Biodiversity	121
International Journal of Andrology	121
Polymer International	121

Title	Year to date PDF downloads
Mycoses	120
Journal of Neurobiology	119
Molecular Plant Pathology	119
Biochemistry and Molecular Biology Education	118
European Journal of Soil Science	118
Fish and Fisheries	118
Medicinal Research Reviews	118
Developmental Neurobiology	117
Journal of Organizational Behavior	117
Advanced Synthesis & Catalysis	116
Monthly Notices of the Royal Astronomical Society: Letters	116
Animal Science Journal	115
Pediatric Transplantation	115
Pediatrics International	115
Scandinavian Journal of Medicine & Science in Sports	114
Archiv der Pharmazie	113
Systems Research and Behavioral Science	113
Zoologica Scripta	113
Biomedical Chromatography	112
Journal of the American Ceramic Society	111
Polymers for Advanced Technologies	111
Protein Science	111
Australasian Journal of Dermatology	110
The Breast Journal	110
Diabetes/Metabolism Research and Reviews	110
Environmental Toxicology	110
Journal of Food Biochemistry	110
Journal of Mass Spectrometry	110
Macromolecular Symposia	110
Evolution & Development	109
Flavour and Fragrance Journal	108
Mount Sinai Journal of Medicine	108

Title	Year to date PDF downloads
Soil Use and Management	108
International Journal of Dairy Technology	106
Journal of Experimental Zoology Part A: Comparative Experimental Biology	106
Neurourology and Urodynamics	106
American Journal of Medical Genetics Part C: Seminars in Medical Genetics	105
Cephalalgia	105
Phycological Research	105
APMIS	103
Psycho-Oncology	103
Journal of Cardiac Surgery	102
Journal of Heterocyclic Chemistry	102
The Anatomical Record	101
European Journal of Clinical Investigation	101
International Zoo Yearbook	101

TOTAL

115585

Total for all journals

144407

ELSEVIER APPENDIX B - JOURNALS WITH 3,000+ ARTICLE REQUESTS

Journals with 3,000+ Article Requests	Number	% of Total
Aquaculture	26,228	
Food Chemistry	20,836	
The Lancet	17,163	
Bioresource Technology	16,273	
Journal of Food Engineering	11,995	
Hydrometallurgy	8,334	
Biochemical and Biophysical Research Communications	8,151	
Journal of Chromatography A	7,941	
Journal of Hazardous Materials	7,783	
Cell	7,593	
Water Research	7,457	
Chemosphere	7,396	
Forest Ecology and Management	7,325	
Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology, and Endodontology	7,042	
Scientia Horticulturae	6,731	
American Journal of Obstetrics and Gynecology	6,596	
Postharvest Biology and Technology	6,581	
Minerals Engineering	6,228	
Journal of Experimental Marine Biology and Ecology	6,037	
Analytica Chimica Acta	5,964	
Journal of Oral and Maxillofacial Surgery	5,883	
Gastroenterology	5,880	

Journals with 3,000+ Article Requests	Number	% of Total
International Journal of Food Microbiology	5,869	
The Lancet Neurology	5,860	
Theriogenology	5,490	
Meat Science	5,461	
Fish & Shellfish Immunology	5,445	
LWT - Food Science and Technology	5,411	
Phytochemistry	5,177	
Journal of the American College of Cardiology	5,138	
FEBS Letters	5,130	
Science of The Total Environment	5,103	
Fertility and Sterility	5,072	
Vaccine	5,046	
Soil Biology and Biochemistry	5,009	
Food Research International	5,000	
Neuron	4,927	
Carbohydrate Polymers	4,859	
Trends in Ecology & Evolution	4,776	
Atmospheric Environment	4,693	
European Journal of Operational Research	4,640	
Talanta	4,605	
Brain Research	4,543	
Bioorganic & Medicinal Chemistry	4,480	
Neuroscience	4,463	
Process Biochemistry	4,351	

Journals with 3,000+ Article Requests	Number	% of Total
The Journal of Pediatrics	4,328	
Enzyme and Microbial Technology	4,327	
Biological Conservation	4,315	
Veterinary Microbiology	4,218	
Environmental Pollution	4,123	
Tetrahedron Letters	4,083	
Free Radical Biology and Medicine	4,016	
Journal of Ethnopharmacology	3,990	
Journal of Allergy and Clinical Immunology	3,976	
Biomass and Bioenergy	3,864	
Journal of Molecular Biology	3,823	
Tetrahedron	3,807	
Journal of Biotechnology	3,806	
Agricultural Water Management	3,780	
Physics of the Earth and Planetary Interiors	3,757	
American Journal of Orthodontics and Dentofacial Orthopedics	3,754	
International Journal of Oral and Maxillofacial Surgery	3,724	
Journal of the American Academy of Dermatology	3,709	
Marine Pollution Bulletin	3,703	
Renewable Energy	3,645	
International Journal of Pharmaceutics	3,607	
The Veterinary Journal	3,547	
Electrochimica Acta	3,541	
Journal of Hydrology	3,535	

Journals with 3,000+ Article Requests	Number	% of Total
Journal of Pediatric Surgery	3,498	
Aquacultural Engineering	3,495	
Animal Reproduction Science	3,470	
Veterinary Clinics of North America: Small Animal Practice	3,469	
Bioorganic & Medicinal Chemistry Letters	3,459	
Renewable and Sustainable Energy Reviews	3,421	
Chemical Engineering Science	3,419	
Trends in Plant Science	3,390	
Ecological Modelling	3,361	
Molecular Phylogenetics and Evolution	3,332	
Desalination	3,315	
Biomaterials	3,289	
Food Control	3,252	
Waste Management	3,209	
Ecological Economics	3,169	
Animal Feed Science and Technology	3,166	
Veterinary Parasitology	3,164	
Journal of Colloid and Interface Science	3,162	
European Journal of Pharmacology	3,117	
The Journal of Prosthetic Dentistry	3,110	
Trends in Food Science & Technology	3,068	
Food and Chemical Toxicology	3,048	
Current Opinion in Plant Biology	3,025	
Neuroscience Letters	3,022	

Journals with 3,000+ Article Requests	Number	% of Total
Biotechnology Advances	3,009	
Number of titles	95	4.44%
Number of articles:	506,382	33.16%