

Usage Analysis of Electronic Information Resources: Sample of Hacettepe University Libraries

Outline

- ❑ Overview of Hacettepe University Libraries
- ❑ Methodology
- ❑ Results
 - ❑ Type of fulltext downloads
 - ❑ Distribution of most frequently used journals
 - ❑ Distribution of subjects of the downloaded journal titles
 - ❑ Correlation between download frequency and impact factor
- ❑ Discussion and conclusion

Hacettepe University Libraries

- Establishment – 1958
- Two libraries
 - Hacettepe
 - Medicine and health sciences
 - Beytepe
 - Science, engineering, social sciences, humanities ...
- Number of potential users - ~ 25,000
- Number of full-text electronic journals: 9997
- Year 2006 subscription - 46 databases
 - Role of the ANKOS

Method

- ❑ Determining the most used database
 - ❑ ScienceDirect
- ❑ Collecting related data
 - ❑ COUNTER
- ❑ Analyzing data sets
- ❑ Discussing results

COUNTER

ScienceDirect® and Scopus® Usage Reporting - 1a. Number of Successful Full-Text Article Request - Microsoft Internet Explorer

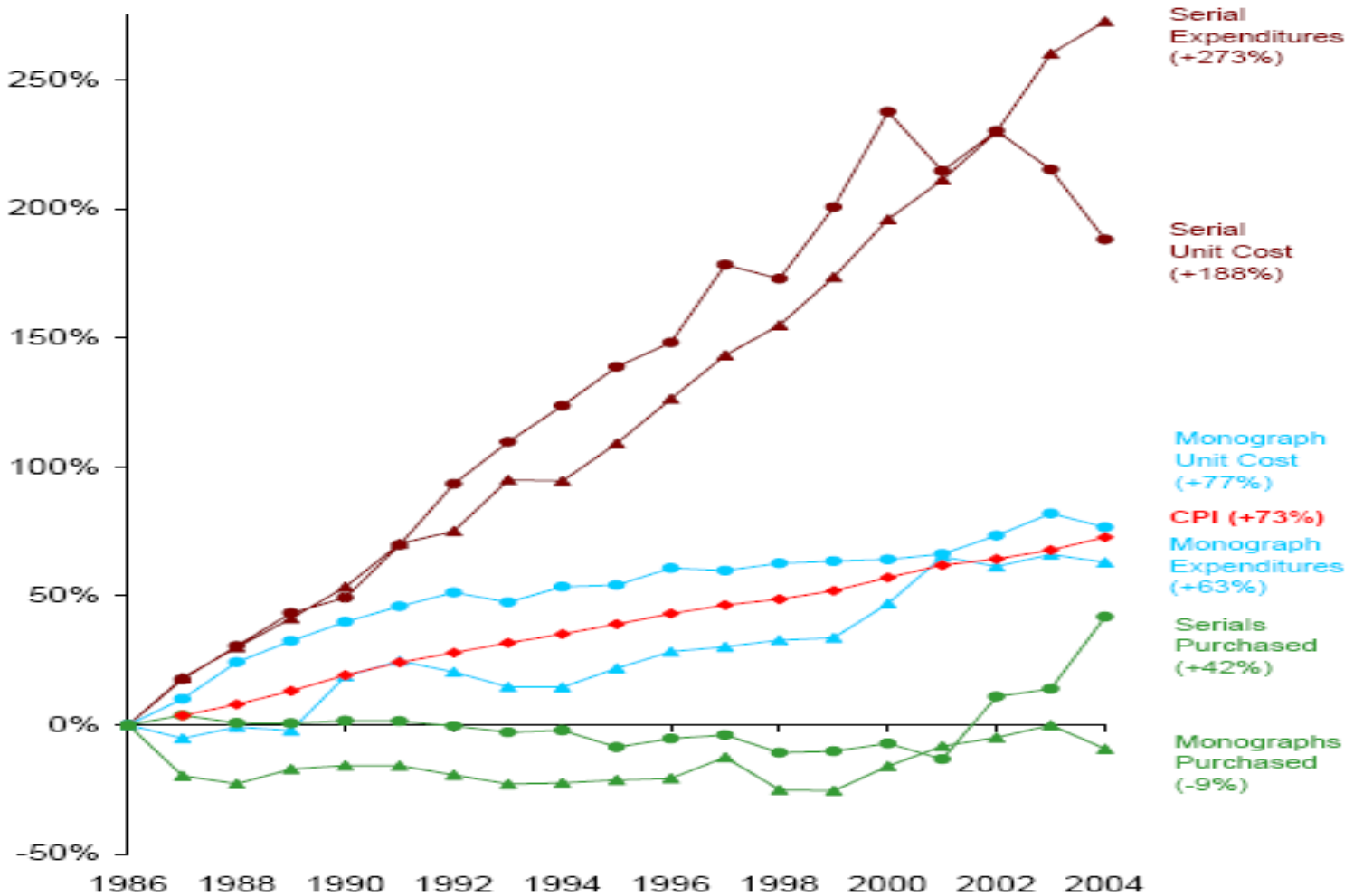
Address: http://usagereports.elsevier.com/asp/Main.aspx?evt=4001&src=Main.aspx.4001&reportViewMode=1&reportID=2515824D45377F6A0BF59EA78EFBD875&Main.aspx=-G82A501ES.Elsevier+ScienceDirect+Usage.0.&fb=0.361CB31B4EE839BA5CF019A143636A8F.1*.%2BUsage%2Bper%2Bjournal.8.0.0-8.7

Account: ANKOS - Hacettepe Universitesi: C000038678

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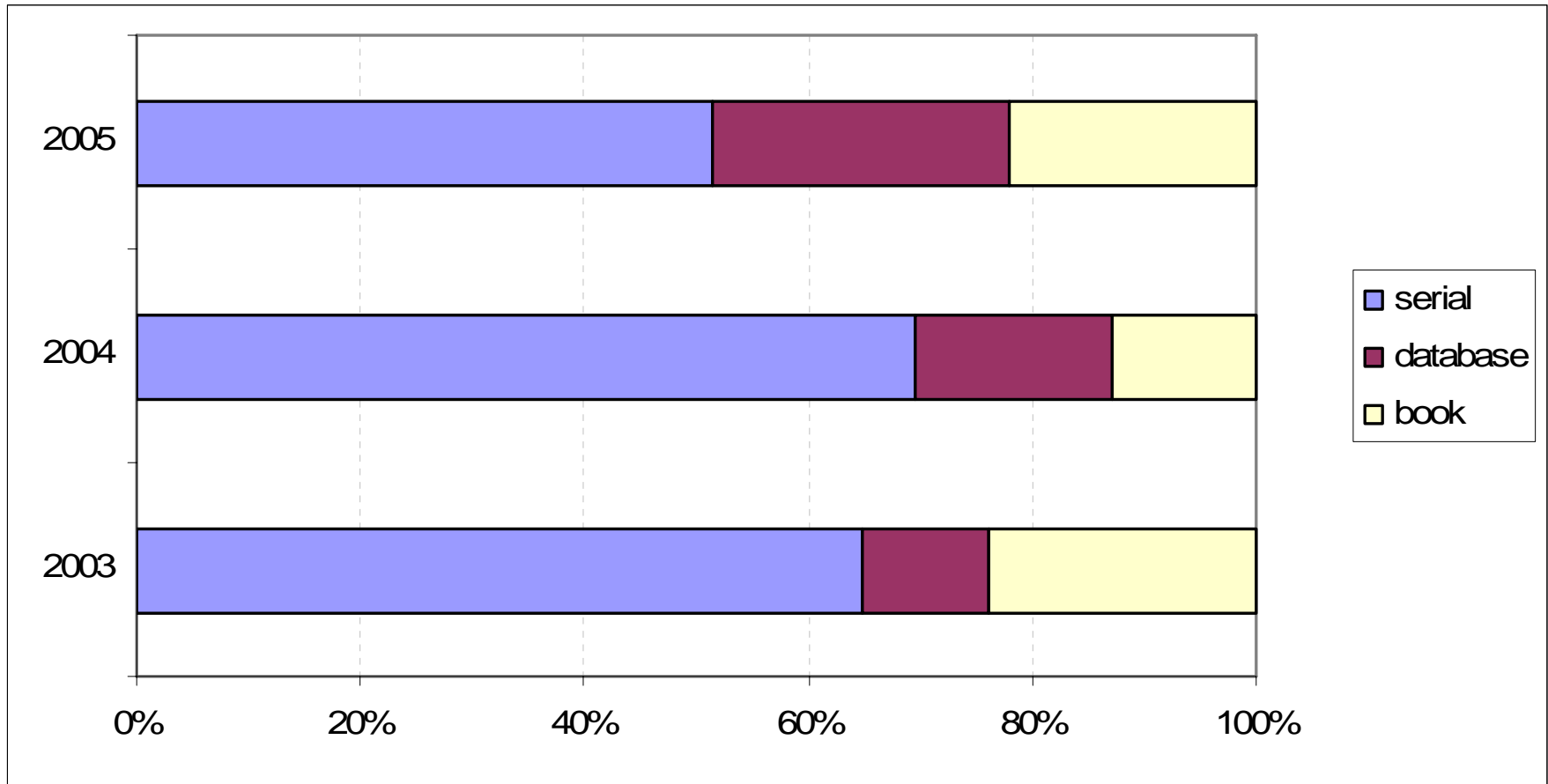
Journal	Publisher	Platform	Print ISSN	Online ISSN	Metrics	Jan-2005	Feb-2005	Mar-2005	Apr-2005	May-2005	Jun-2005	Jul-2005	Aug-2005	Sep-2005	Oct-2005	Nov-2005	Dec-2005	YTD Total	YTD HTML	YTD PDF
Total						21,760	21,115	29,400	26,057	24,927	21,080	20,501	16,671	18,850	25,664	27,232	33,367	286,624	80,898	205,726
Academic Radiology	Elsevier	ScienceDirect	1076-6332			8	9	3	3	11	6	20	22	11	22	9	16	140	55	85
ACC Current Journal Review	Elsevier	ScienceDirect	1062-1458			12	8	13	17	5	12	2	6	3	7	21	7	113	35	78
Accident Analysis & Prevention	Elsevier	ScienceDirect	0001-4575			1	5	12	0	7	2	34	15	15	6	38	16	151	75	76
Accident and Emergency Nursing	Elsevier	ScienceDirect	0965-2302			1	7	3	2	8	4	8	6	8	25	11	10	93	29	64
Accounting Forum	Elsevier	ScienceDirect	0155-9982			0	4	4	1	3	0	0	0	19	0	2	1	34	12	22
Accounting, Management and Information Technologies	Elsevier	ScienceDirect	0959-8022			0	1	0	3	1	0	0	0	1	0	0	0	6	3	3
Accounting, Organizations and Society	Elsevier	ScienceDirect	0361-3682			3	2	9	4	1	5	7	0	7	3	3	4	48	16	32
Acta Astronautica	Elsevier	ScienceDirect	0094-5765			1	1	3	4	1	2	0	2	1	2	12	0	29	11	18
Acta Biomaterialia	Elsevier	ScienceDirect	1742-7061			1	0	1	3	8	0	2	0	3	6	4	7	35	7	28
Acta Histochemica	Elsevier	ScienceDirect	0065-1281			5	2	3	1	2	0	1	10	1	7	8	7	47	20	27
Acta Materialia	Elsevier	ScienceDirect	1359-6454			2	4	8	10	10	5	1	3	0	6	3	9	61	14	47
Acta Metallurgica	Elsevier	ScienceDirect	0001-6160			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acta Metallurgica et Materialia	Elsevier	ScienceDirect	0956-7151			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acta Oecologica	Elsevier	ScienceDirect	1146-609X			4	0	1	3	9	16	2	0	4	2	1	9	51	15	36
Acta Psychologica	Elsevier	ScienceDirect	0001-6918			0	1	1	1	2	5	11	0	4	3	12	1	41	12	29
Acta Tropica	Elsevier	ScienceDirect	0001-706X			13	11	12	10	1	15	15	8	13	9	6	10	123	46	77
Acute Pain	Elsevier	ScienceDirect	1366-0071			0	1	0	0	3	1	1	0	0	0	0	4	10	1	9
Ad Hoc Networks	Elsevier	ScienceDirect	1570-8705			0	0	0	0	1	0	0	0	1	0	8	0	10	8	2
Addictive Behaviors	Elsevier	ScienceDirect	0306-4603			19	13	19	9	4	18	5	31	7	27	2	45	199	110	89
Additives for Polymers	Elsevier	ScienceDirect	0306-3747			1	3	0	1	0	0	1	0	2	0	1	0	9	3	6
Advanced Cement Based Materials	Elsevier	ScienceDirect	1065-7355			0	0	0	0	1	1	0	0	0	0	0	0	2	0	2
Advanced Drug Delivery Reviews	Elsevier	ScienceDirect	0169-409X			85	102	68	65	53	43	59	29	42	54	71	104	775	186	589
Advanced Energy Conversion	Elsevier	ScienceDirect	0365-1789			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Advanced Engineering Informatics	Elsevier	ScienceDirect	1474-0346			0	0	0	0	0	3	1	0	2	0	1	0	7	0	7

Serial Expenditures in ARL

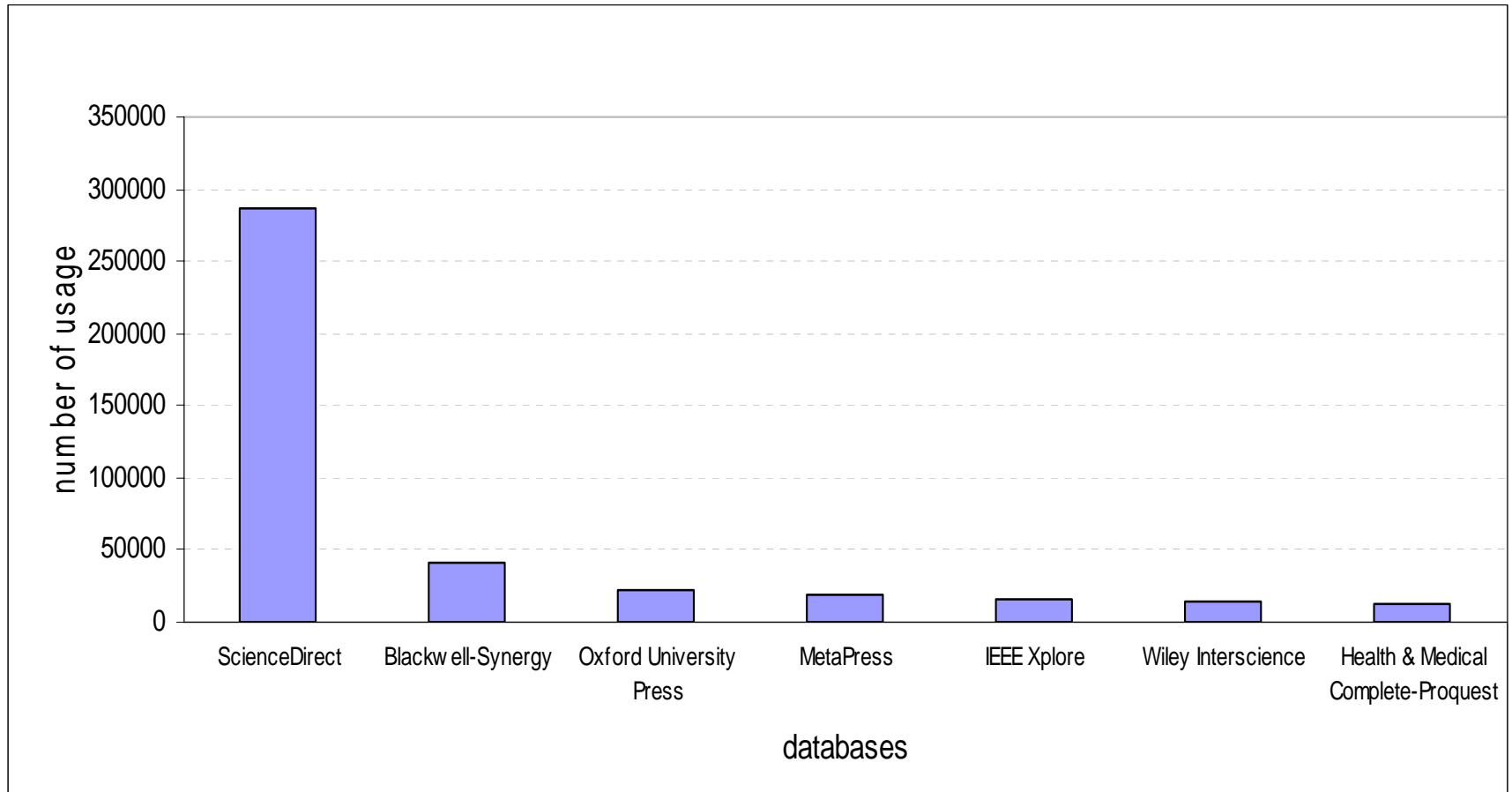


Source: ARL Statistics 2003-04, Association of Research Libraries, Washington, D.C.

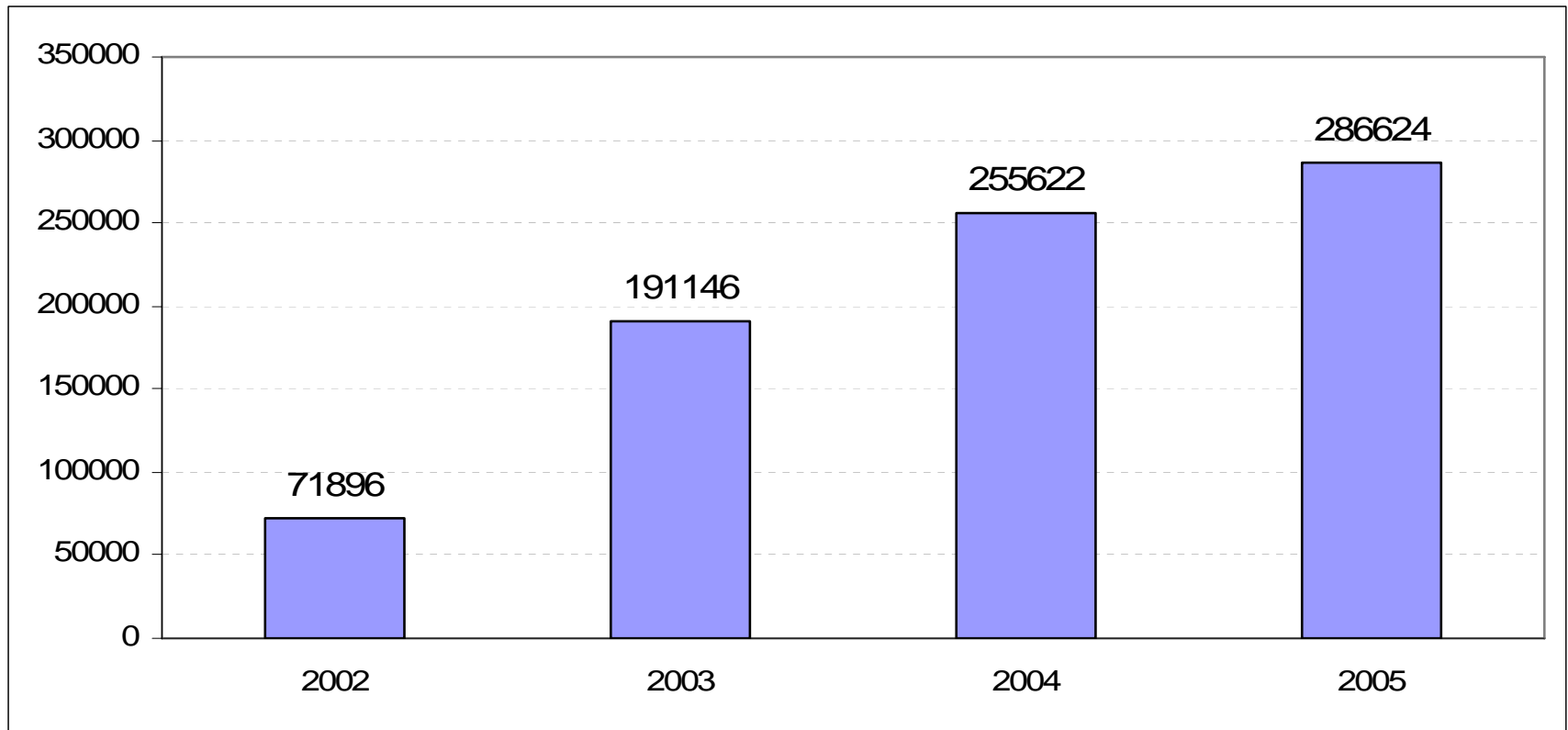
Budget of HU Libraries



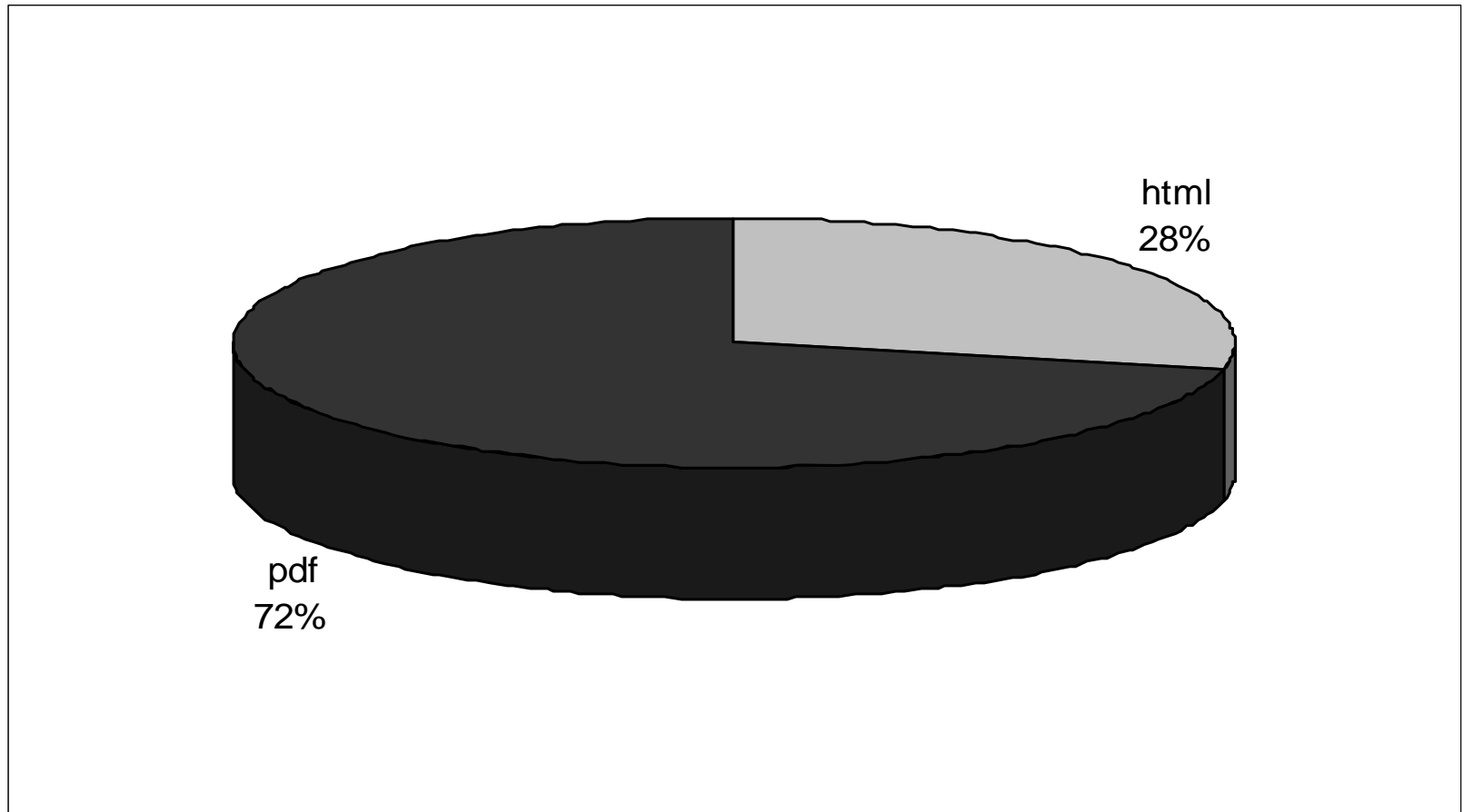
Usage of Databases



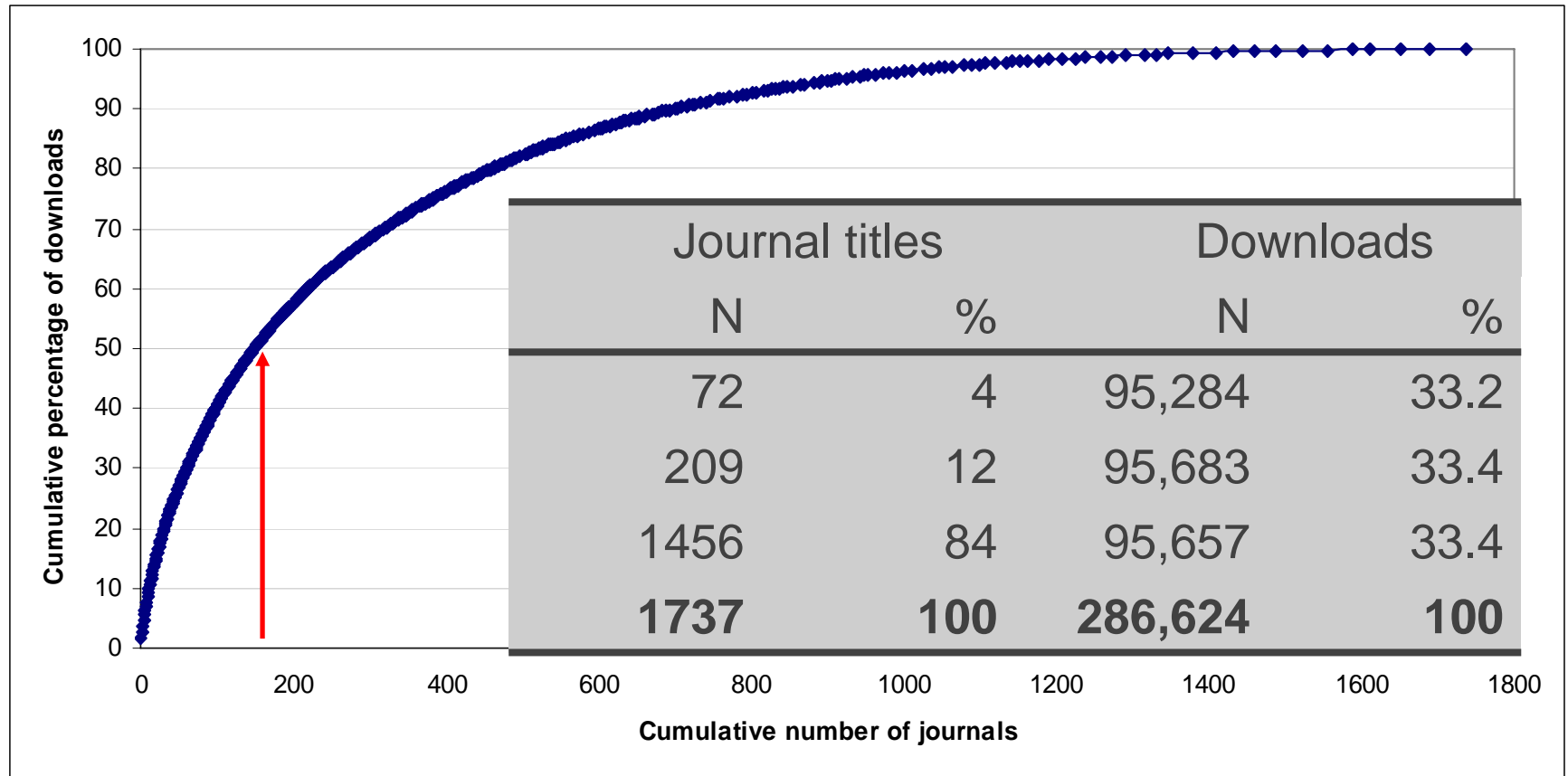
Usage of ScienceDirect by Year



Type of Downloads



Distribution of Downloads to Journals



Top Ten Journals

Journals	# of downloads
Lancet	4640
Journal of Chromatography A	3310
Biomaterials	2680
Food Chemistry	2597
Gynecologic Oncology	2562
American Journal of Obstetrics and Gynecology	2159
Journal of the American College of Cardiology	2152
Fertility and Sterility	2143
Analytica Chimica Acta	2083
Archives of Physical Medicine and Rehabilitation	2024

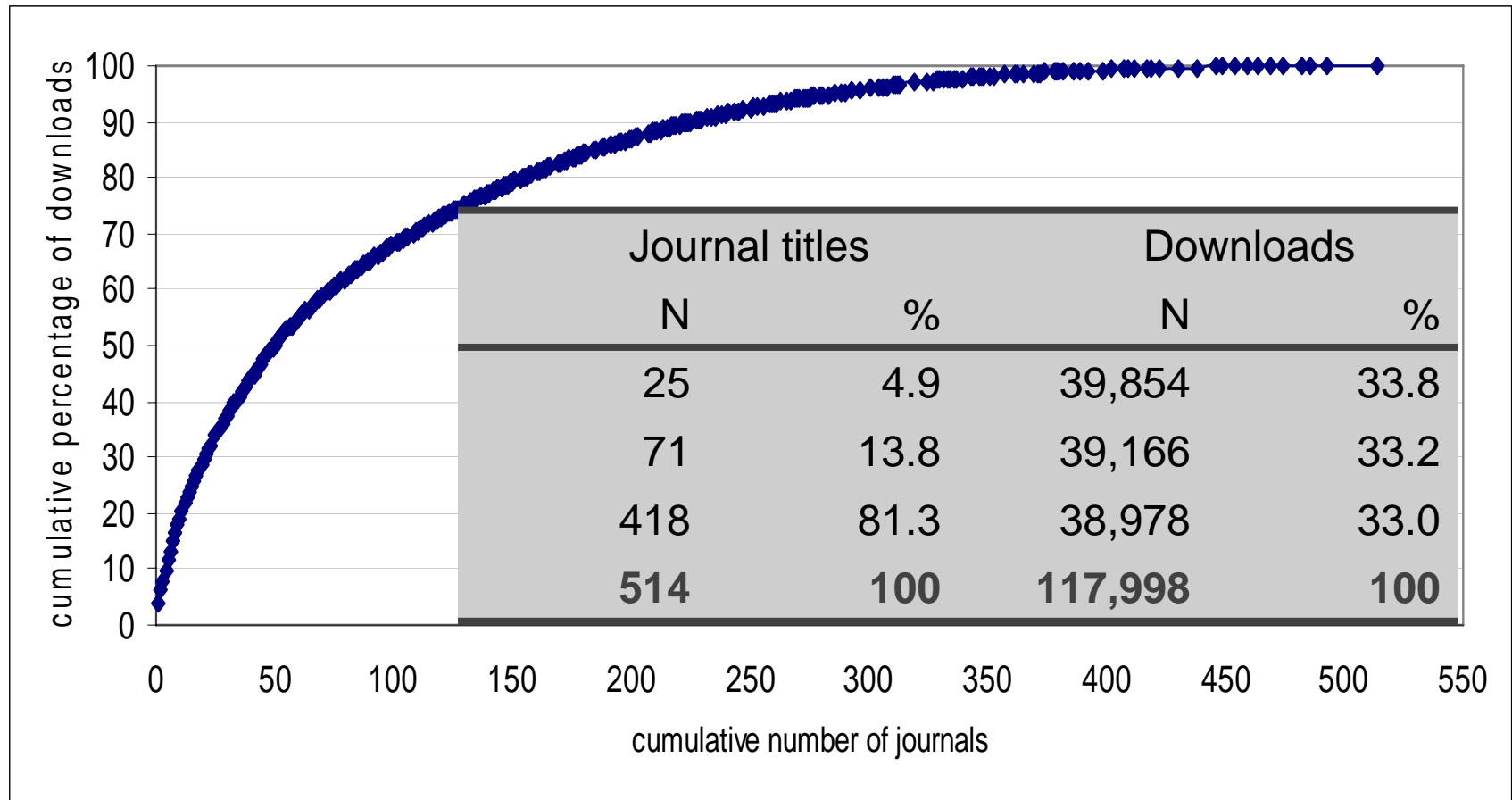
of Downloads & Journals

# of downloads	# of journals		cumulative # of journals		# of usage		cumulative # of usage	
	N	%	N	%	N	%	N	%
1-10	327	18.8	327	18.8	1631	0.6	1631	0.6
11-25	267	15.4	594	34.2	4482	1.6	6113	2.1
26-50	237	13.6	831	47.8	8723	3.0	14,836	5.2
51-100	266	15.3	1097	63.2	19,176	6.7	34,012	11.9
101-200	246	14.2	1343	77.3	35,227	12.3	69,239	24.2
201-300	140	8.1	1483	85.4	34,099	11.9	103,338	36.1
301-400	71	4.1	1554	89.5	24,932	8.7	128,270	44.8
401-500	41	2.4	1595	91.8	18,399	6.4	146,669	51.2
501-750	61	3.5	1656	95.3	37,770	13.2	184,439	64.3
751-1000	40	2.3	1696	97.6	33,628	11.7	218,067	76.1
> 1001	41	2.4	1737	100	68,557	23.9	286,624	100
Total	1737	100			286,624	100		

Subjects & Usage

Subjects	# of journals	%25	%33	%50	%75	# of usage	average usage per journal
Chemistry	104	4	6	12	27	31,939	307.1
Pharmacology	90	5	7	13	27	26,588	295.4
Neuroscience	114	7	10	18	40	26,293	230.6
Medicine	514	15	25	49	130	117,998	229.6
Chemical engineering	77	3	5	9	19	17,352	225.4
Biochemistry	307	12	19	37	85	64,387	209.7
Materials science	122	4	6	12	29	21,231	174.0
Earth sciences	91	3	4	8	20	15,761	173.2
Agricultural sciences	154	4	5	10	24	24,917	161.8

Distribution of Downloads to Medicine Journals



Correlations Between Impact Factor & Download Frequency

- All journals – Pearson's $r = .177$, $p = < .01$
- Nursing journals –
Pearson's $r = .756$, $p = < .01$
- Psychology journals –
Pearson's $r = .395$, $p = < .01$
- Environmental science journals –
Pearson's $r = .389$, $p = < .01$
- Most frequently downloaded top 30 journals –
Pearson's $r = .708$, $p = < .01$

Discussion and Conclusion

- ❑ Distribution of downloads to journal titles fit Bradford's Law of Scattering
- ❑ The overwhelming majority of journal titles were downloaded infrequently
- ❑ Impact factor can be useful about usage of electronic information resources
- ❑ Impact factor is not only indicator of the usage

Discussion and Conclusion

- ❑ Importance of electronic information resources
- ❑ Importance of usage analysis
- ❑ Impact of usage analysis on collection management
- ❑ Impact of usage analysis on consortiums
- ❑ Combination of user studies and usage analysis researches
- ❑ Comparative studies

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