

Application of user statistics and additional data for collection management of Wageningen University & Research digital library

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Wageningen UR Library



Life Sciences at Wageningen UR

- Wageningen UR for Quality of Life
 - Food and food production
 - Living environment
 - Health, lifestyle and livelihood

Physical Library



Library stacks



Digital library

Digital Library

[wageningen ur \(home\)](#) > [digital library](#)

[marco.vanveller@wur.nl](#) (Guest user!)

Wageningen UR Digital Library



The Wageningen UR Digital Library provides access to the collections of Wageningen UR Library, both electronic and in print. Subjects covered in these collections include Agrotechnology, Food and Food Production, Plant and Animal Sciences, Soil Science, Geo-information, Landscape and Spatial Planning, Water and Climate, Ecosystem Studies, Economics and Society. This web site offers access to the major sources of scientific information in these areas.

Thu. 5 Nov. 2009

[New FAQ item on off-campus access](#)

[Reaxys](#)

[Nature Nanotechnology: a new journal](#)

» more news

Upcoming events

Thu. 5 Nov. 2009
[Working with EndNote X2](#)

Tue. 10 Nov. 2009
[Information Literacy for PhD including EndNote Introduction](#)

» more events

Contact

Wageningen UR
Library (Service Desk)

- ▶ Portals
- ▶ Search
- ▶ User info and services
- ▶ My Library
- ▶ Special Collections
- ▶ FAQ
- ▶ News
- ▶ Calendar
- ▶ Organisation

Finding information

Novice users

- ▶ Portals - guides to the literature

Experienced users

- ▶ Search - bibliographic databases

Books and journals in the Library

- ▶ **Library Catalogue**
- ▶ E-journals A-Z
- ▶ Special Collections
- ▶ Textbooks and lecture notes

Wageningen UR publications

- ▶ Wageningen Yield



Using the (Digital) Library

- ▶ User info and services
- ▶ My Library
- ▶ Addresses and opening hours
- ▶ Online document ordering

Help

- ▶ Frequently asked questions
- ▶ Quick introduction (online demos)
- ▶ Service Desk
- ▶ Sitemap

Most used resources

- ▶ Scopus 
- ▶ Web of Science 

Search catalogue

Basic search

[search tips](#)

Search for:

? all fields ?

e.g. "wind energy", apple* OR pear*, economic* AND Smith, [more...](#)

AND all fields [choose category](#)

Limit options:

Years of publication: ? Type of document:

E.g. 198? or 19?? or 2004,2005,2006

Library: [choose library acronym](#)

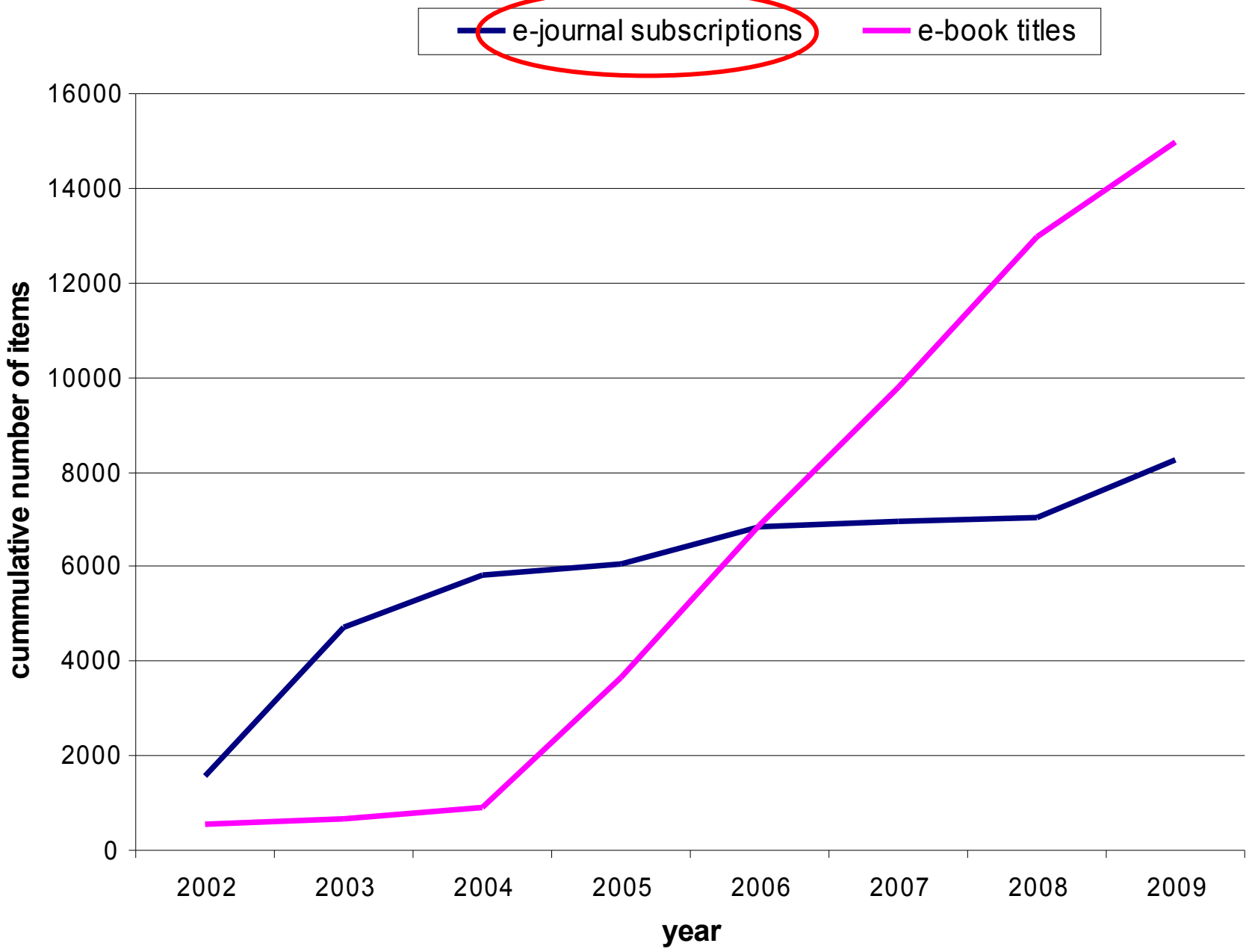
Electronic only Dutch English German French Spanish

Search

Disclosure to online information

- Websites and databases
 - a.o. bibliographies
- (student) reports
- E-books
- E-journals

- ...



Journals in catalogue

- Registration
 - catalogue number
- Classification data
 - category
 - keywords
- Holdings
 - WWW
- Other bibliographical (meta) data
 - e.g. title, ISSNs, publisher
- Access
 - link to journal at publisher's website

Journal subscriptions

- In packages
 - “big deals”
 - other packages
- Separate journals

- Registration in subscriptions database: Cardex
 - Subscription number
 - Catalogue number
 - Invoices over years
 - 2009
 - Estimated price

Journals in packages

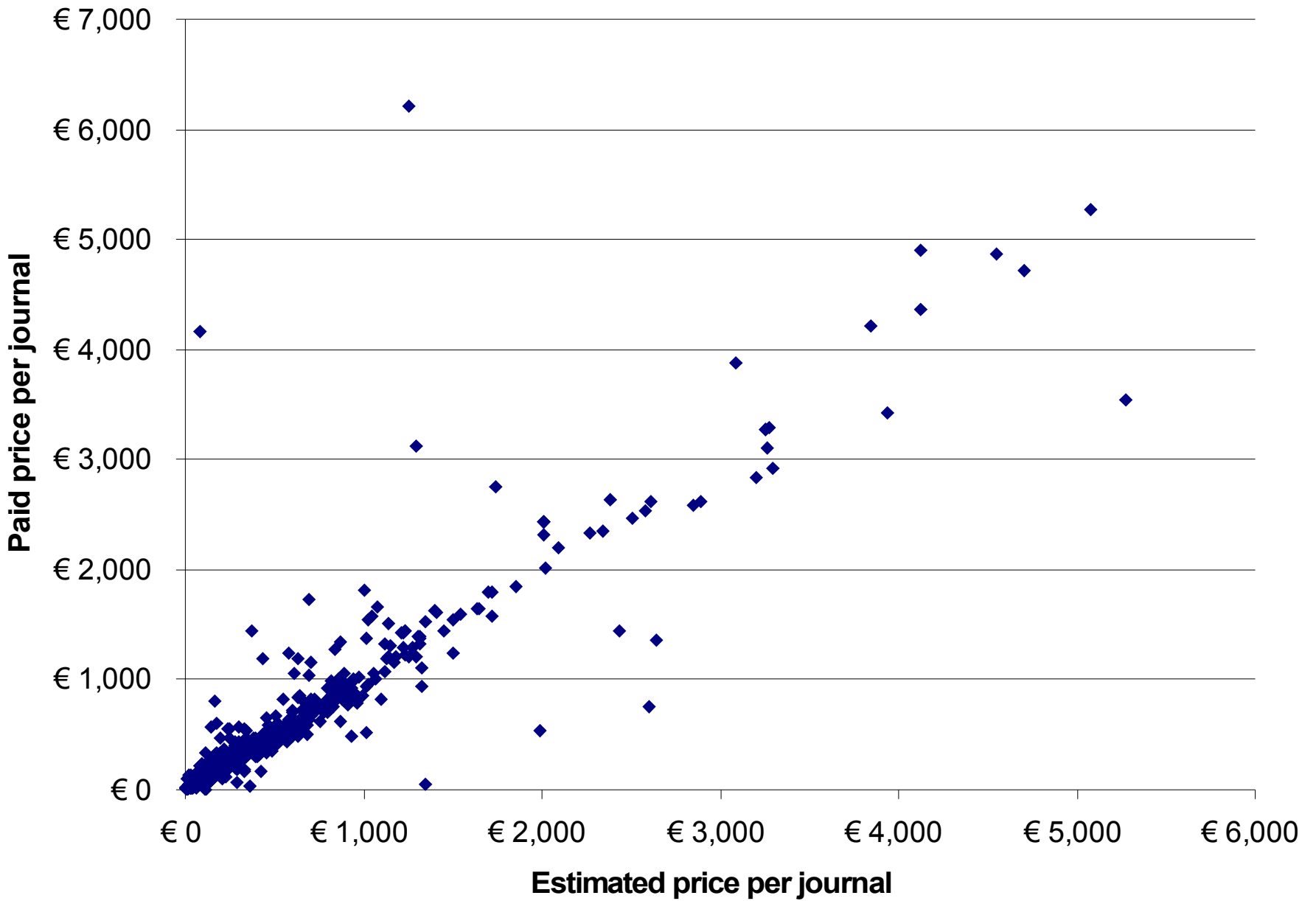
- “Big deals” with vendors in UKB consortium
 - UKB: Dutch consortium of 13 university libraries and the National Library of the Netherlands
 - Wageningen UR: 20 packages
- Other packages in deals between Wageningen UR and vendors
 - 17 packages
- Number of journals per package differs considerably
 - 2 to more than 1500

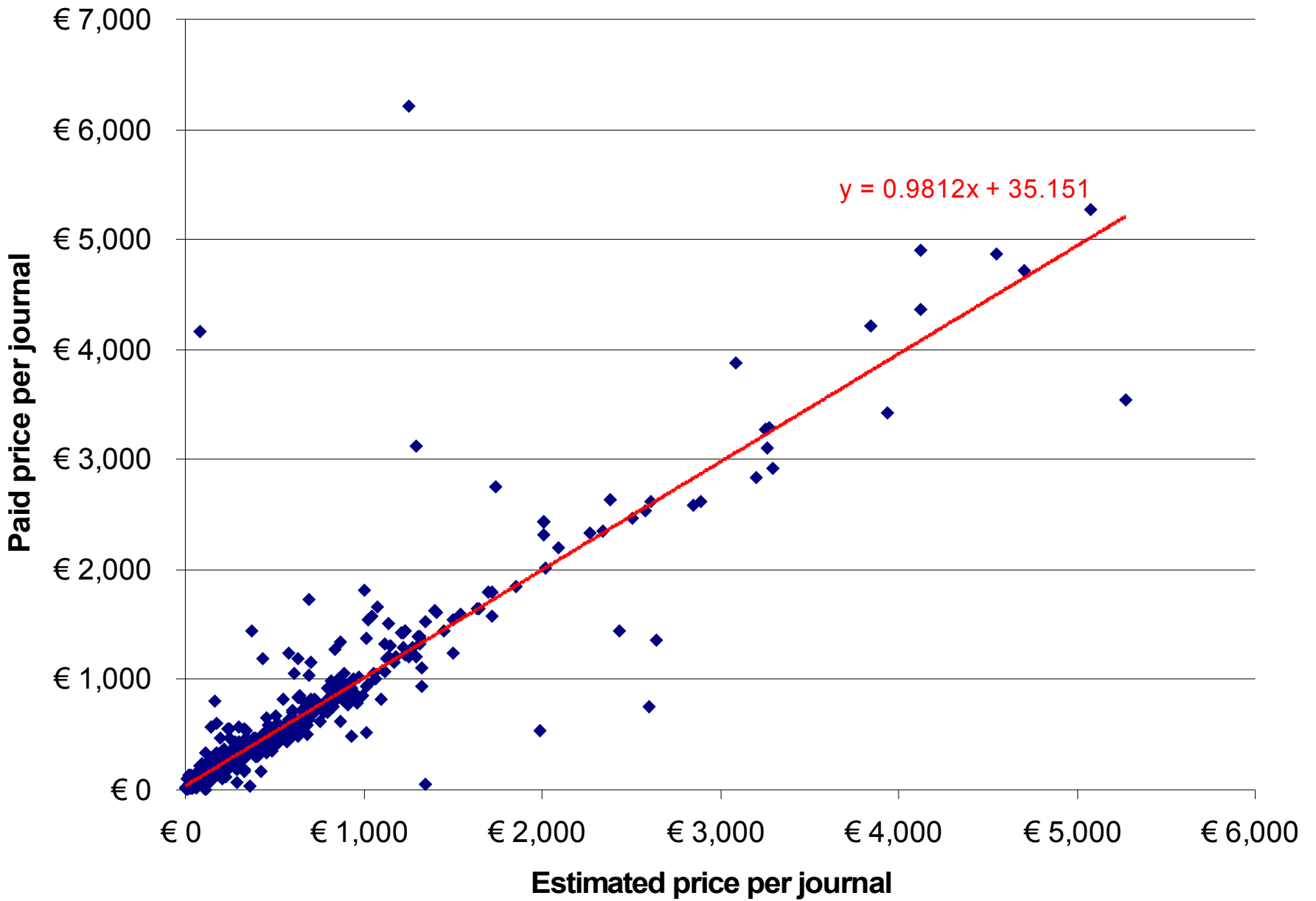
Separate journals

- Subscription with vendor per journal separately
 - publisher
 - scientific society
- Sometimes besides a package
 - redundancy
- Many vendors
 - Wageningen UR: 391 different vendors
- Often one title per vendor
 - Wageningen UR: almost 72% of vendors

Journal expenses

- Cardex contains information on estimated price
 - estimation based upon earlier years
 - complete
- Also, Cardex contains information on paid invoices in 2009
 - sometimes settlements with earlier invoices
 - incomplete (2009 not over yet)
- Needed: Price per journal
 - up to date (for 2009)
 - complete





Prediction of the price per journal in 2009

■ Separate journals

$$\hat{P}_{j,2009} = (0.9812 * P_j) + 35.151$$

$\hat{P}_{j,2009}$ = Predicted price for journal j in 2009

P_j = Estimated price for journal j

■ Journals in packages

- mean price per journal within package

Summary Prices of journals in 2009

	% total price	Number of journals	Price per journal	Standard error
Big deals	87	7892	€ 217	€ 174
Other packages	3	255	€ 715	€ 778
Separate journals	10	856	€ 490	€ 696
Total		9003	€ 257	€ 319



Wageningen UR Library Catalogue

Record number 56798
Title **Journal of avian biology**
Years/volumes Vol. 25-
Publisher Copenhagen : Munskgaard
Publication year 1994-
Continuation of [Ornis Scandinavica, ISSN 0030-5693](#)
ISSN 0908-8857
e-ISSN 1600-048X
Keyword(s) [birds / biology](#)
Category [Aves](#)
Publication type Journal 
Language en
Availability [INTERNET; ; Vol. 31\(2000\);](#)
[DEPOT; STACKS; NN31941; Vol. 25\(1994\)-35\(2004\);](#)
[INTERNET; ; Vol. 25\(1994\)-\(2001\).](#)

Comments

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[ToC alert via e-mail](#)

 [RSS feed](#)

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Dealing with redundancy

- Calculate price per journal based upon regression analyses
 - use mean price per journal for packages
- Make sure that title, print ISSN and online ISSN fields are as complete as possible
 - identification
- Combine redundant subscriptions to a single record for each journal
 - group by catalogue number
 - sum calculated prices per journal

Access to online journals

- Via SFX menu to vendor's website
 - bibliography
 - catalogue
 - Google Scholar



A screenshot of a web browser window showing the SFX menu for Wageningen UR Library. The browser title is "SFX by Ex Libris Inc. - Windows Internet Explorer". The address bar shows "http://library.wur.nl/sfx". The page content includes the Wageningen UR logo, the text "SFX menu", and a list of services provided by the library. The services listed are: "Full text available via Nature" with search fields for Year, Volume, Issue, and Start Page; "Hard copy version of publication available at FORUM: JOURNALS; Nature; Laatste jaar FORUM: STACKS; NN02709; Vol. 1(1869)-" with a link to library acronyms; "Request this publication from Wageningen UR Library"; "Add this publication to personal shortcuts in My Library"; and "Add Table Of Contents alert to My Library". The page also includes a language dropdown menu set to English and a help section.

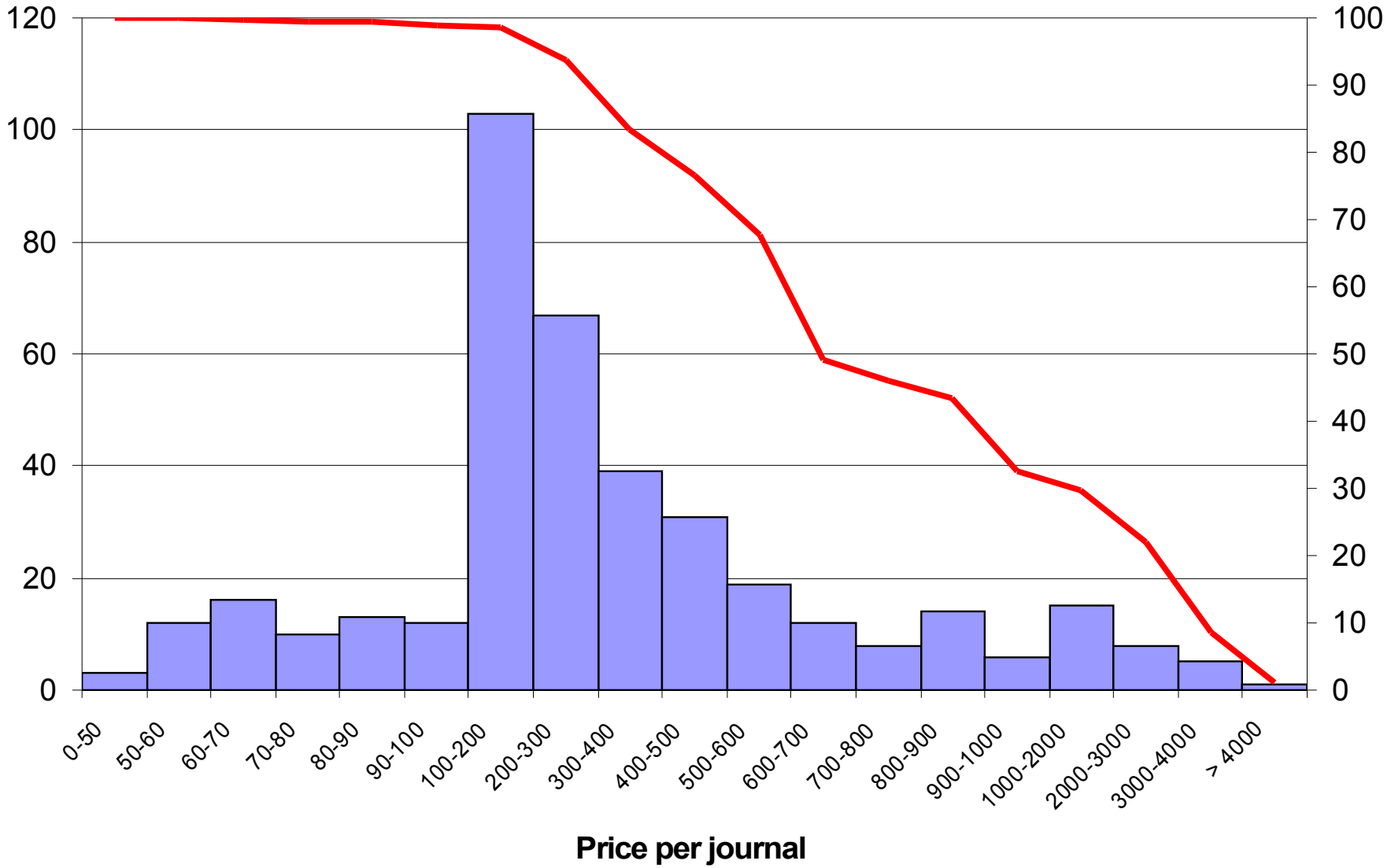
Access to online journals

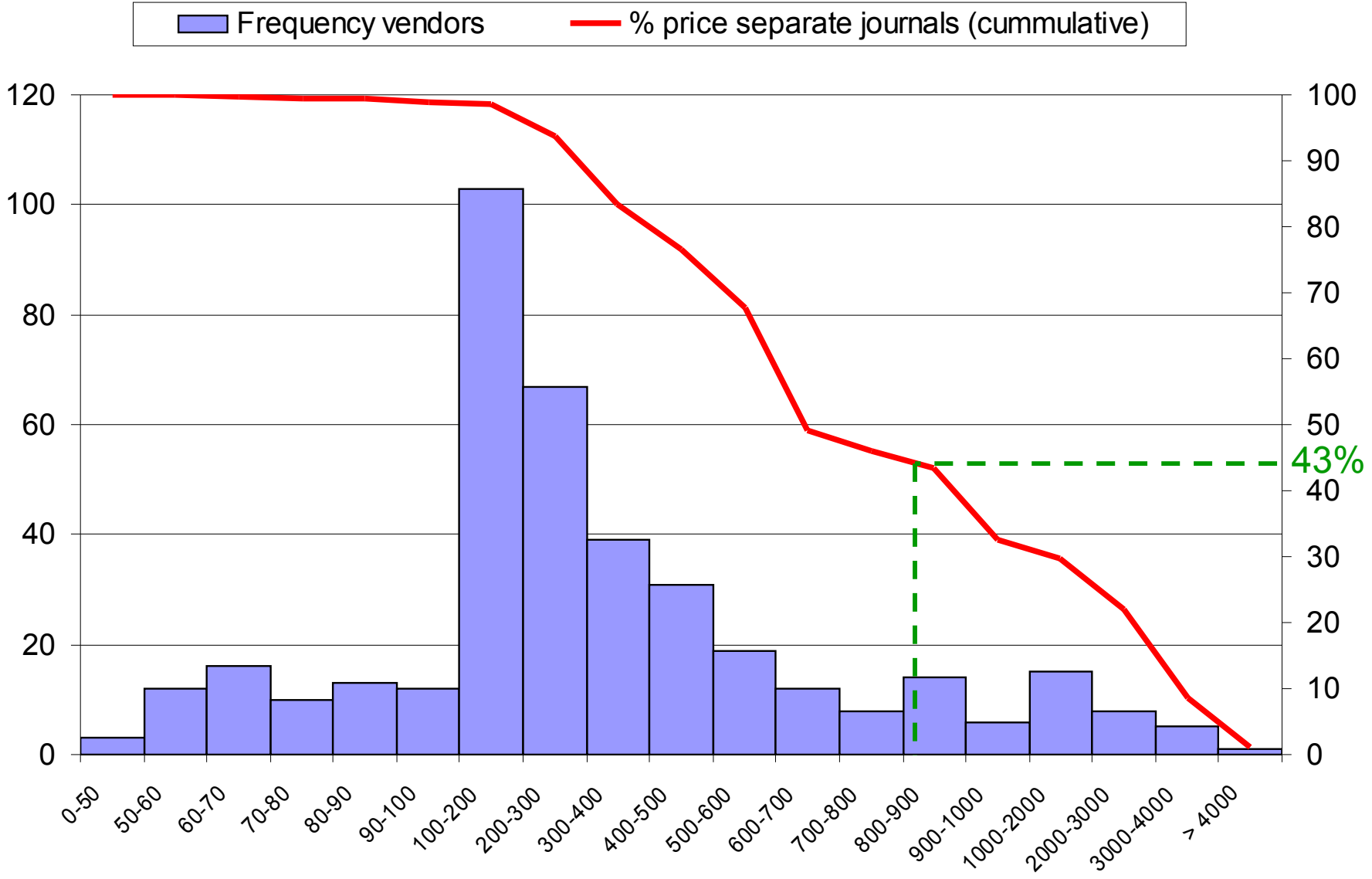
- Via SFX menu to vendor's website
 - bibliography
 - catalogue
 - Google Scholar
- Directly to vendor's website
 - consultation of journal website
 - DOI of article
 - alert from publisher

Measurement of usage for online journals

- SFX-server statistics for all journals
 - number of clickthroughs
 - per journal
 - incomplete measurement of usage
- Usage statistics for journals per vendor
 - number of article downloads (pdf plus html)
 - for each subscription separately
 - combination of subscriptions to journals
 - complete measurement of usage

Frequency vendors % price separate journals (cummulative)



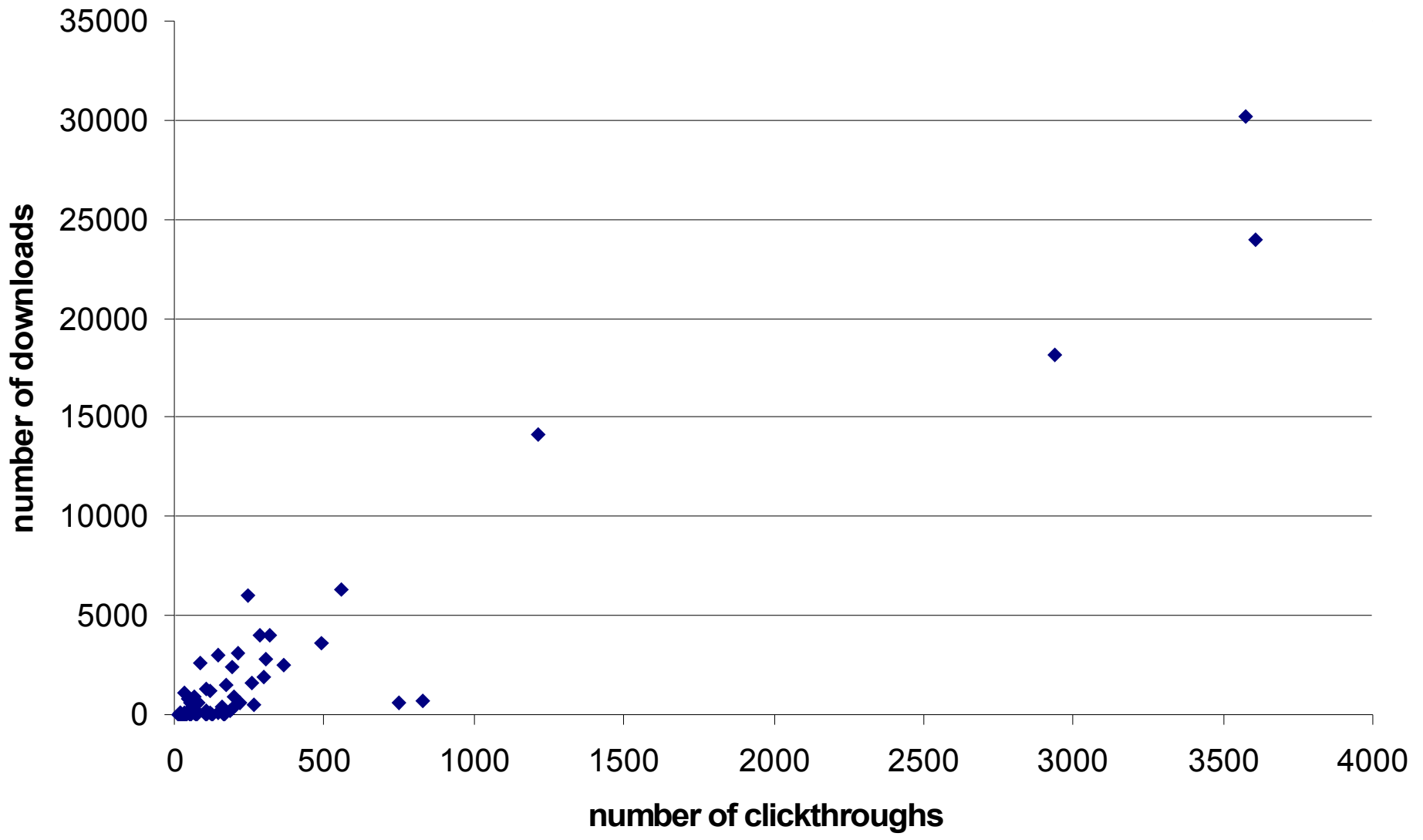


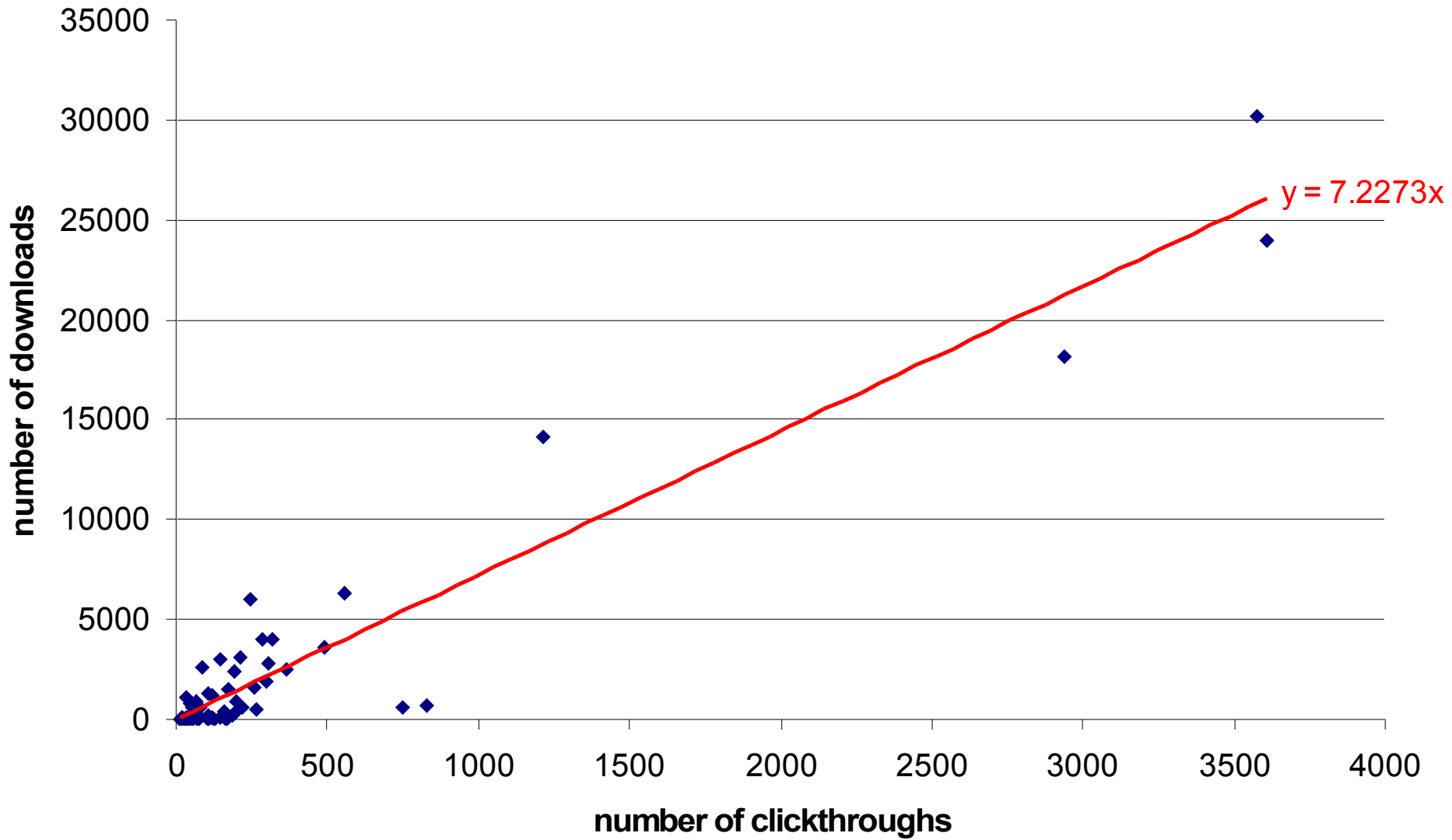
Price per journal

- 50 most expensive publishers
- 125 journals

Journal usage for most expensive vendors

- Only for 61 (out of 125) journals download statistics could be obtained from the vendors
 - complete measurement of usage
- Estimation of the number of downloads for the other 64 selected journals
 - SFX-server statistics
 - number of clickthroughs
 - “correction” for incompleteness





Prediction of the usage per journal

$$\hat{D}_j = 7.2273 * C_j$$

\hat{D}_j = Predicted number of downloads for journal j

C_j = Counted number of clickthroughs on SFX - server for journal j

- Apply only to journals for which no download statistics could be obtained
 - 59 journals with predicted number of downloads
 - 5 journals still without usage data

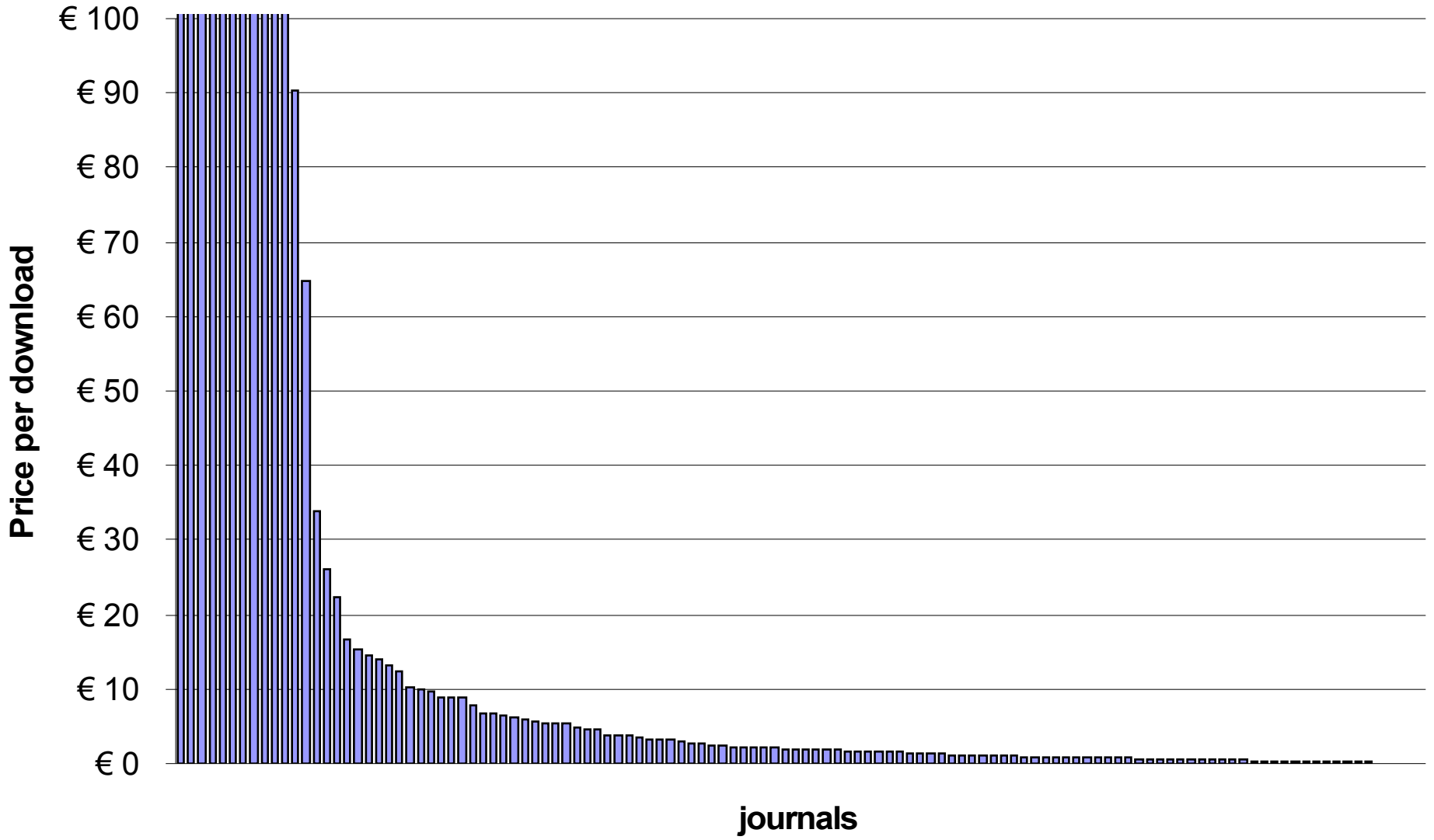
Connection between price and usage

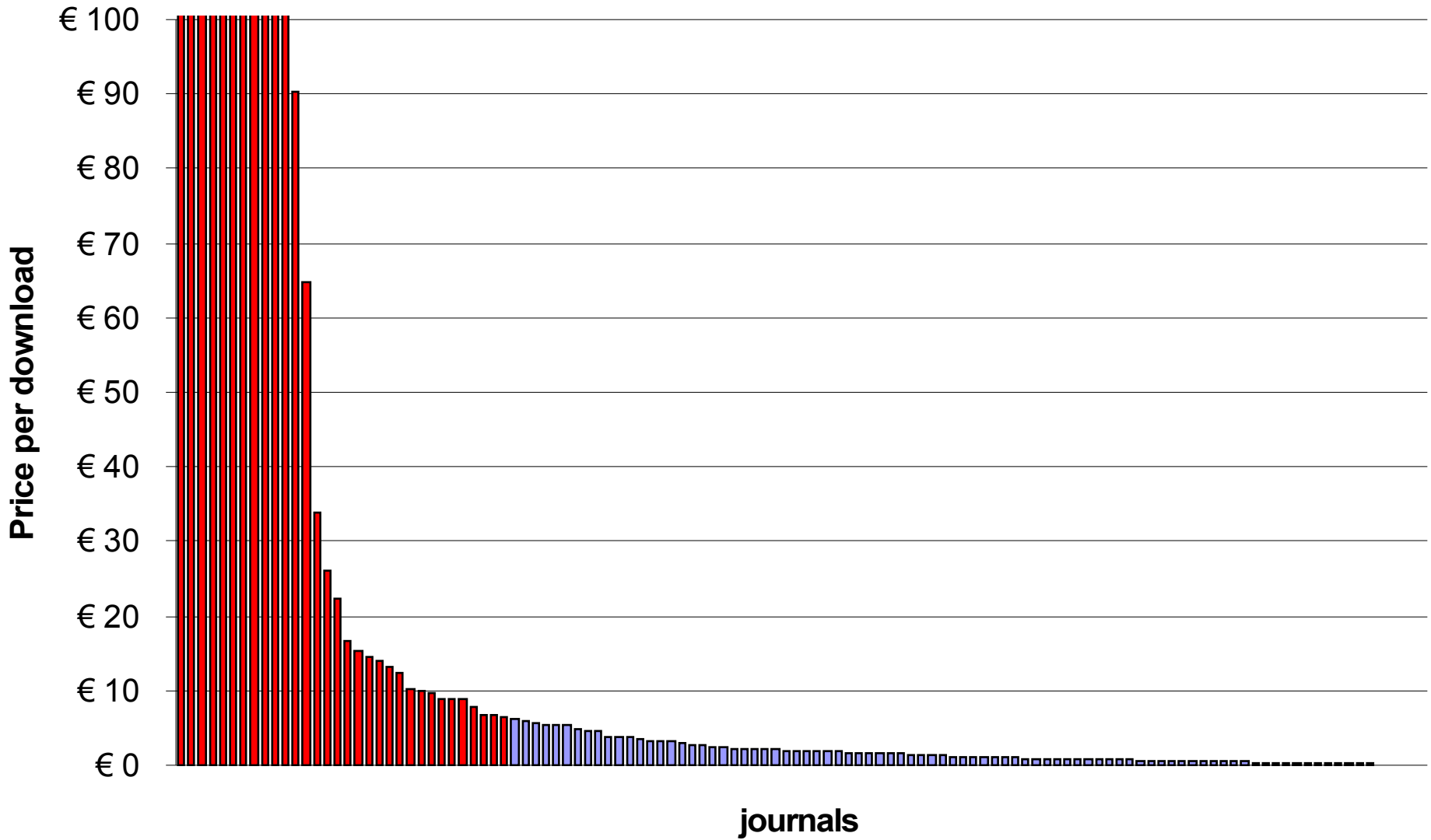
■ Connect tables

- (predicted) price per journal without redundancy
- (predicted) downloads per journal for subscriptions together

■ Identification of records to be connected

- print ISSN
- online ISSN
- title





32 journals > € 6.50 per download

Conclusions

- Subscriptions to online journals at Wageningen UR in packages and separate journals
- Cancellations per title only possible for separate journals
- Candidate journals for cancellation:
 - high paid price in recent year
 - prediction from estimated price per journal
 - low use
 - download statistics from vendor
 - prediction from SFX-server statistics

Thank you !

