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# Working Paper Series

Estimating Business and Management Journal Quality from the 2008 Research Assessment Exercise in the UK

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# Estimating Business and Management Journal Quality from the 2008 Research Assessment Exercise in the UK

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#### **Abstract**

The 2008 Research Assessment Exercise in the UK involved the peer review of over 12,500 research outputs in Business and Management, of which 92% were journal articles. Each output was graded on a 5-point scale from "world leading" to "no research contribution". These grades were accumulated for each department to provide an overall quality profile in terms of the proportions of its outputs in each category. The assessments of individual papers were not made public but the papers submitted by each department were. This data provides a major opportunity for addressing issues of concern about the evaluation of research and the effects of journal rankings, as well as the possibility of reconstructing the judgements made by the Panel about journal quality. Given the submission details and the resulting grade profile for each department, we have used linear programming to produce the best estimate of the grades awarded to papers from each journal that had more than three entries. This provides both a grade profile for each journal and a single quality estimate. The results are shown to have good validity in comparison with other journal rankings. Apart from providing a ranking of 700 journals based on the RAE results, the paper is also able to shed light on issues such as the accuracy and coverage of the ABS ranking; the degree of selectivity of submissions; the dispersion of grades for a journal; and differences between different subject areas.

**Key Words**: journal rankings, Research Assessment Exercise (RAE), research evaluation

#### 1. Introduction

There is an increasing drive towards measuring the research quality of academics whether it is for the purposes of promotions, jobs, or assessing the performance of departments and centres or even whole universities. Quality can only be judged through the activities and publications produced, especially journal papers as that, in Business and Management, is the primary currency. However, assessing the quality of individual papers by peer review is itself time consuming, requires expert(s) in the area, and there could be disagreement. Partly for these reasons, the quality of the journal that the paper is published in is often taken as a proxy for the quality of the paper itself. This then displaces the problem to judging the quality of journals (and assuming that all papers within are of equal quality) – hence the proliferation of journal rankings.

There are two main ways of generating rankings – stated preference (peer review), where some group of experts determines a ranking, and revealed preference where actual publishing behaviour is measured usually in terms of the citation impact factor (IF) or the h-index. A third approach is to statistically combine a set of already existing lists (Mingers and Harzing, 2007). There are many ranking lists available the Harzing website (http://www.harzing.com/) but for Business and Management the list produced by the Association of Business Schools (ABS) (http://www.the-abs.org.uk/?id=257) has become the

*de facto* standard. There are two major problems, however – the lists do not agree with each other, and in reality there will be a range of quality within any one journal.

However, the use of journal rankings as a proxy for quality is actually extremely contentious. For example, Paul (2007, 2008), who was a member of the 2008 RAE Panel, states that "One major conclusion appears to be that journal rankings are not a good indicator of the quality of any paper published in that journal, nor necessarily the combined quality of all the papers" (Paul, 2008, p. 324). Macdonald and Kam (2007), in a bitter critique, suggest that the whole would of academic publishing in management is one of gamesmanship and game playing with the so called quality journals simply reproducing standard, consensual research within a small elite community. Clarke and Wright (Clark and Wright, 2007), then editors of the *J. of Management Studies*, disagree and argue that journals do develop and change in response to their communities, and that the reviewing processes of high quality journals do in fact lead to high quality papers. Adler and Harzing (2009) provide another strong critique of the dysfunctional effects of academic ranking systems and journal rankings in particular. The main complaint is that they lead to a narrowing of the discipline, concentrating research into the narrow confines of established journals and discouraging innovation and interdisciplinary work.

In the light of these debates, the latest (2008) Research Assessment Exercise (RAE) provides a major opportunity to investigate the extent to which journal rankings are concordant with direct judgements of the quality of individual papers. The 2008 RAE differed in major ways from previous ones. Rather than assigning departments a single grade for their research quality as before (1, 2, 3B, 3A, 4, 5, 5\* in 2001), a quality profile was generated in terms of the proportion of the department's research that was judged to be on a scale from 4\* (world leading) to 0\* (unclassified). Full details of the RAE can be found in various reports issued by HEFCE (RAE, 2004, 2005, 2006) prior to it, and the results were announced in 2008 (RAE, 2008). Also available online are the subject overview report for the Business and Management Panel (RAE, 2009a); the complete submissions (RAE, 2009b); and the quality profiles (RAE, 2009c).

Quality itself was defined in terms of three characteristics – originality, significance and rigour – and the levels were:

- 4\*: Quality that is world-leading, that has become, or is likely to become, a primary point of reference in the field or sub-field.
- 3\*; Quality that is internationally excellent, that has become, or is likely to become, a major point of reference in the field or sub-field.
- 2\*: Quality that is recognised internationally, that has made, or will make, a contribution to knowledge, theory, policy or practice.
- 1\*: Quality that is recognised nationally, that has made or will make a limited contribution.
- Unclassified (0\*): Quality that falls below the standard of nationally recognised work or which does not meet the definition of research.

The requirement of the Panel was to assess a department's quality in terms of their submitted research outputs, the research environment and the esteem of the staff members. A profile

was generated for each and these were combined (70%, 20%, 10%) to produce the overall quality profile. As we are only concerned with the outputs the environment and esteem profiles will not be considered.

The Panel was therefore required to produce a quality grading for every single piece of work submitted, in this case 12,575 in the RAE database. This was clearly a huge task and the RAE only required that 25% be looked at in detail. The results that were made public consisted of the grade profile for each of the 90 institutions that submitted together with details of all the publications. However, the grades for individual outputs are not available.

Prior to the exercise, the Panel Chair (Professor Mike Pidd) made it clear on several occasions that the Panel did not intend to use journal ranking lists in making their judgements. He also stated that they expected to find a range of qualities within a single journal. What was not clear was how they would in fact grade outputs if they were only actually going to read a proportion of them. In the event, the Panel claimed that "most outputs were read in considerable detail" (RAE, 2009a, p. 5). This is clearly different to the 2001 RAE where the Panel "typically read 15%-30% of outputs in their sub-areas, with some reading as much as 75%" (Bessant et al., 2003, p. 53). It would seem to be a formidable task: 12,600 outputs to be read by 18 academics (700 each) over a just a few weeks, and informally it was suggested that in many cases just the abstract was read but nevertheless it does represent a major exercise in directly assessing the quality of research outputs. However, little is said in the review about precisely how the quality judgements were made, how the grade boundaries were determined, or the extent of consensus or dissensus.

The purpose of this paper is to try to use the peer review quality judgements made by the Panel to evaluate journal quality and journal ranking lists such as the Association of Business School's one. Geary et al (Geary, Marriott and Rowlinson, 2004) performed a similar task after 2001 although their approach was somewhat indirect. They assumed that staff in higher quality departments will tend to publish in higher quality journals and that therefore one could assess a journal's quality by the RAE grade of the departments that submitted it. Frequency counts were calculated for each journal and it was then awarded points on a 7-point scale corresponding to the RAE grades for each department that submitted it. An average score for the journal could then be calculated using the mean, mode or median. This method has obvious drawbacks: it does not discriminate that well between journals; the score for a department depends on things other than the research outputs; and it ignores the fact that there may be "islands" of excellence in otherwise weak departments.

A similar method could be used for 2008 based on the mean or GPA of the department's profile, but we are proposing a more sophisticated approach that attempts to reconstruct the Panels decisions from a knowledge of the outputs submitted and the quality profile awarded to them for each of the 90 departments. This is done using linear programming (LP). In brief, we create a set of decision variables for each journal that represent the 5 possible quality levels. We then use LP to find the values of those variables that minimise the difference between the estimated quality profile (calculated from the variables) and the actual quality profile awarded to each department. The approach is analogous to least squares regression but

with several thousand variables to be determined. The result is an estimate of the proportion of papers from a journal that were awarded the various levels of quality.

In the first section we compare the outputs submitted to the 2008 RAE with those from previous ones. We then describe the methodology including the mathematical model(s) developed, and the data cleaning and manipulation. Finally, we explore the results obtained and comment on their validity.

#### 2. Comparison of the 2008 and 2001 submissions

In this section we will just present the basic facts of the RAE submissions in comparison with previous ones without considering the quality levels. Note that the journal data has been the subject of a cleaning process which is described in the next section. In particular, papers that were submitted as internet journal publications, i.e., they had been published electronically but not in print, were allocated to the appropriate print journal.

Table 1 shows that since 1996 there has been a contraction of the number of submissions, and presumably departments, but an increase in the number of staff and publications submitted. Staff have increased by 43% but outputs by nearly 60%. More worryingly perhaps, journal papers have come to dominate the submissions reaching 90% in 2008. Other forms of research such as authored books, edited books and research reports are certainly not being submitted to the RAE, whether or not they are actually being produced. The number of different journal titles is also rising inexorably although it is not necessarily the case that they are all highly regarded as later results will show. The mean number of entries per journal and entries per institution has also risen significantly.

Table 1 Submission statistics for the last three RAEs Adapted from Geary et al (2004), Bence and Oppenheim (2004), RAE (2009a)

	1996	2001	2008
No of submissions	100	97	90
No. of staff submitted	2300+	3000+	3300
Total no. of outputs	8000+	9942	12575
No. of journal papers (% of total) <sup>a</sup>	5494 (69%)	7973 (80%)	11625 (92%)
No. of journal titles	1275	1582	1639
Mean outputs/journal	4.3	5.0	7.1
Mean outputs/institution	80.0	102.5	139.7

<sup>&</sup>lt;sup>a</sup> Totals differ slightly between different sources. Figures for 2008 are after data cleaning as described later

The dominance of journals can be seen more clearly in Table 2. Authored books and especially book chapters have fallen dramatically. This may well be attributable to comments by Panel members before the submission that one had to be careful with outputs that had not been peer reviewed, i.e., that were not in refereed journals. It will be interesting to see how

the REF (the next RAE) tackles this problem with its increased emphasis on the external impact of research not merely its scholarly impact.

Table 2 Number of publications by output type Adapted from Geary et al (2004), Bence and Oppenheim (2004), RAE (2009a). Categories with zero entries have been suppressed

Output Type	Description	1996	2001	2008
A	Authored book		431	285
В	Edited book		77	60
С	Chapter in book		863	332
D	Journal article		7973	11374
E	Conference contribution		295	85
G	Software		3	1
H	Internet publication		24	318
N	Research report for external body		80	98
Т	Other form of assessable output		184	22
	Total		9942	12575

Looking within the journals, it has always been the case that submissions follow the Pareto rule – a small number of journals account for a large proportion of the submitted outputs and vice versa.

Table 3 Dispersion of submitted journal outputs
Adapted from Geary et al (2004), Bence and Oppenheim (2004), RAE (2009a)

No. of entries per journal title	1996 % titles	2001 % titles	2008 % titles
1	51.0%	49.0%	42.9%
2	15.5%	16.0%	14.6%
3	8.5%	7.0%	8.7%
4	5.0%	5.0%	4.9%
5-10	11.5%	12.0%	14.0%
11-25	5.5%	7.0%	8.5%
> 25	3.0%	4.0%	6.3%

We can see from Table 3 that around 50% of the journals only have a single entry in the RAE although this proportion reduced in 2008. Over 70% of journal titles have 4 or less entries. On the other hand, a relatively small number of journals account for a high proportion of total

entries. The 105 most common journals between them account for 50% of the journal outputs submitted and as Figure 1 shows, the top 20% of journal titles account for almost 80% of the submitted outputs.

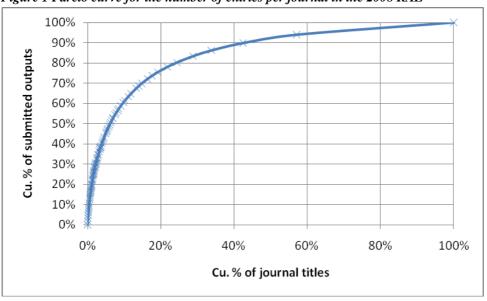
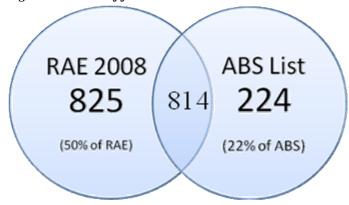


Figure 1 Pareto curve for the number of entries per journal in the 2008 RAE

Concentrating on these, we can compare the most popular journals with those from 2001. The 20 most frequently submitted journals from 2008 are listed in Table 4 along with their relative positions on the Geary equivalent for 2001. The "top twenty" represented 22 % of the 2008 outputs, compared to 20% of those in 2001. 15 journals have retained their place in the top 20, while five have slipped out - *Human Resource Management Journal, Industrial Relations Journal, Personnel Review, Applied Economics* and *Long Range Planning*. The top twenty journals cover most of the spectrum of business and management and it is interesting that two top journals classified as social science have entered – *Regional Studies* and *Research Policy*. All but *Service Industries Journal* are 3\* or 4\* in the ABS rankings.

In the light of the discussion in the introduction about rankings lists leading to standardisation, it is interesting to see what proportion of the journals submitted are actually included in the ABS list. Figure 2 shows that there were 825 journals in the RAE that are not in ABS; 224 journals in ABS that were not entered in the RAE; and 814 that were in both. The first figure shows that 50% of the RAE journals are not actually included in ABS which is the most comprehensive listing of B&M journals there is. There would seem to be two possible reasons: genuine business and management journals that ABS has not yet included, and journals that are not business ones. These would typically either be applications journals, e.g., health services or construction, or other relevant disciplines e.g., philosophy or social science. The latter examples could be seen as healthy interdisciplinary and applicability, or they could be seen as business schools being somewhat of a "dumping ground" for academics who do not fit well in other, more focussed, departments.

Figure 2Numbers of journals in the RAE and the ABS list



The issue of fragmentation within B&M submissions is important as Bence and Oppenheim discuss (2004). First, it is very difficult for Panel members to genuinely have expertise across such a wide range of subjects. The 2001 Panel expressed quite strong concerns about this problem (Bessant et al., 2003). This time the Panel overview was more sanguine but still concluded that "Some submissions ... seemed to be of little or no relevance to business and management studies and ... some submissions were an over-eclectic mix of outputs" (RAE, 2009a, p. 5). The second, related concern is that even if Panel members consider themselves competent to judge a paper they may downgrade it in comparison with similar papers in more core business journals. Some evidence relevant to this will be presented in the results section.

On the other side, we can see that 22% of the ABS journals were not actually submitted in the RAE. At first sight this seems quite high, especially given the large range of journals that were submitted. The main explanation is likely to be that they are the lower ranked journals which departments chose not to submit for fear of getting low quality gradings. This is confirmed when we see that of the 224 unsubmitted ABS journals over 80% are graded at 1\* or 2\*. In the results section it is shown that there is a lower proportion of 1\* journals in the submitted ABS journals than in the ABS list as a whole.

Table 4 Twenty journals most frequently submitted in the 2008Business and Management RAE Adapted from Geary et al (2004)

2008 Ran k	2001 Ran k	Journal Name	2008 Total	2001 Total	ABS Grad e	ABS subject area
1	2	Journal of Management Studies	219	116	4	GEN MAN
2	8	Human Relations	171	78	4	ORG STUD
3	3	Journal of the Operational Research Society	153	113	3	OR&MANSCI
4	5	European Journal of Marketing	146	90	3	MKT
5	10	Organization Studies	144	75	4	ORG STUD
6	14	European Journal of Operational Research	137	61	3	OR&MANSCI
7	6	International Journal of Operations and Production Management	134	85	3	OPS&TECH
8	9	International Journal of Human Resource Management	133	76	3	HRM&EMP
9	1	Journal of Marketing Management	125	127	3	FINANCE
9	11	Journal of Business Finance and Accounting	125	65	3	MKT
11	4	British Journal of Management	108	107	4	GEN MAN
12	13	Work, Employment and Society	103	64	4	HRM&EMP
13	7	British Journal of Industrial Relations	99	84	4	HRM&EMP
14		Regional Studies	97		4	SOC SCI
15		Research Policy	95		4	SOC SCI
16	16	Service Industries Journal	92	59	2	MKT
17		Critical Perspectives on Accounting	89		3	ACCOUNT
18	20	Organization	83	55	3	ORG STUD
19		Accounting, Organisations and Society	82		4	ACCOUNT
20		Journal of Business Ethics	81		3	ETH-GOV
20		Journal of Business Research	81		3	GEN MAN

### 3. Reconstructing the RAE quality evaluations

#### 3.1 The LP Model

Linear programming (LP) is a mathematical method which determines the values of a set of decision variables so as to maximise or minimise a linear function of those variables (the objective function) subject to a set of linear constraints. In our situation we know the quality profiles for each institution and we also know how many entries for each journal the institution submitted. We can then create two sets of variables – the grade profile for each journal and the estimated grade profile for each institution. The grade profile for a journal consists of five variables each of which represents the proportion of the journal's entries judged to be in a particular category  $(0^* - 4^*)$ . The sum of the 5 variables for a journal must sum to 1.

The estimated grade profiles for institutions are formed from the journal grades, weighted by the number of articles an institution submitted from each journal. The estimated profile is, for each institution at each grade, the sum of each journal grade at grade (0\*- 4\*) multiplied by the number of articles from the institution submitted from that journal divided by the total number of articles in that department's submission. The objective (function) is then to minimise the difference between the estimated profile and the actual profile for each institution by finding the best values for the journal grades. In other words, the model will try and replicate the decisions made by the RAE Panel in order to reproduce the institutional grade profiles.

#### Initial model (QP1)

Let:

j index the journals (j = 1 .. no. of journals) g index the grades 0\* - 4\* (g = 0 ... 4)i index the universities (i = 1 .. no. of institutions) e<sub>ig</sub> be the estimated proportion of research at grade g for university i  $p_{jg}\ be$  the estimated proportion of the outputs of journal j graded at grade g $u_{ig}% =\left( 1\right) \left( 1\right$ n<sub>ii</sub> be the number of entries of journal j submitted by university i

$$Min.\sum_{i} \sum_{g} \left(u_{ig} - e_{ig}\right)^{2} \tag{1}$$

s.t. 
$$e_{ig} = \frac{1}{\sum_{j} n_{ij}} \sum_{j} n_{ij} p_{jg}$$
 for each institution (i) and grade (g) (2)

$$\sum_{g} p_{jg} = 1 \qquad \text{for each journal } (j)$$

$$p_{jg} \ge 0$$

$$e_{jg} \ge 0$$

The objective function (1) minimises the squared differences between the actual and the estimated proportion of research outputs at each grade level for each department. Constraint (2) defines the estimated proportion in terms of the number of entries of a journal multiplied by the proportion of the journal at a particular grade and divided by the total number of entries for that department. Constraint (2) ensures that the grade proportions for each journal sum to 1. It is possible to formulate this model without explicitly using an estimated proportion variable, but we have done it this way for clarity.

As formulated, this is actually a quadratic program as the objective function is quadratic. Since solving large quadratic programs is generally computationally more expensive than linear ones an alternative model was produced with a linear objective minimising the absolute difference rather than the squared difference.

#### **Alternative model (AbsVal1)**

$$Min.\sum_{i} \sum_{\sigma} \left| \left( u_{ig} - e_{ig} \right) \right|$$

Although the absolute value function is itself non-linear it can be easily linearised by generating a new variable (err<sub>ig</sub>) and two new constraints:

$$Min.\sum_{i} \sum_{g} err_{ig} \tag{4}$$

s.t.

$$err_{ig} \ge \left(u_{ig} - e_{ig}\right) \tag{5}$$

$$err_{ig} \ge \left(e_{ig} - u_{ig}\right) \tag{6}$$

$$e_{ig} = \frac{1}{\sum_{i} n_{ij}} \sum_{j} n_{ij} p_{jg}$$
 for each institution (i) and grade (g) (2)

$$\sum_{g} p_{jg} = 1 \qquad \text{for each journal } (j)$$
 (3)

 $p_{ig} \ge 0$ 

 $e_{ig} \ge 0$ 

 $err_{ig} \geq 0$ 

Here constraints (4) and (5) between them ensure that *err* takes on only the positive difference between actual and expected.

A third model was also developed with the idea of determining a single integer quality grade for each journal rather than a grade profile. This was easy to achieve in the formulation by simply restricting the journal grade variables  $(p_{jg})$  to being 0-1 integers. The constraint that they must sum to 1 for each journal ensures that only one of the five possibilities will actually be 1 and so each journal will have only one grade level. This model (**MIP1**) proved very difficult to solve computationally.

#### 3.2 Cleansing the data

Each submitting institution used a pro-forma to enter details of their outputs. After the publication of the RAE 2008 outcomes, the details of the individual outputs were released. The spreadsheet <RA2> was downloaded from the business and management sub panel section of the RAE website. There were 12575 records in the data set. Each output had to be placed within one of twenty categories (summarised in Table 2).

The RA2 data was used to derive a list of all journals, along with the number of outputs from each journal, cross-referenced with the institutions submitting those outputs. As journal nomenclature can be imprecise, journal titles were checked to ensure that no journal is listed more than once ("The Journal of Example" and "Journal of Example" must be resolved, is there an error in one of the titles? Are there two distinct journals?). We also used the journal ISSNs which were part of the RAE data but again there was a good deal noise here: some were entered as text and some numeric; some were incorrect; and some journals actually have more than one ISSN. The online papers were treated as different category in the RAE data (type H) but we amalgamated those with their printed equivalents. The journal titles adopted in the ABS list of journals were used in preference to any other variants found in the RA2 data.

The next issue was what to do with the outputs that were not journal papers, in the main books and book chapters. We could not include each item individually as if it were a journal because the model only works to the extent that the same journal occurs in a number of submissions. We could simply leave them out which would increase the residual variation in the results but lose information. So, what we did was to include each type (authored book, book chapter etc) as if it were a journal. Thus all 285 authored books were included as if they were a single journal. This increased the accuracy of the model and also allowed us to see how these output types were treated by the RAE Panel. Were books rated highly or lowly? These categories (Book, Book Chapter, Edited Book, External Report and Other) represented 950 outputs (7.556% of the whole dataset).

We also had to decide what to do with all the journals that had only a small number of entries. The problem is that if the journal only occurs a small number of times it becomes essentially unconstrained and the model can use it simply to fill in unexplained variation. After some experimentation we decided to only include in the model those journals that had at least three entries. This meant excluding around 57% of the journal titles (see Table 2)

The final output of this process was a 2-dimensional array indexed by journal name and institution. The full list of cleaned data is available from the authors. As noted by Geary et al (Geary et al., 2004), the process of cleansing the RA2 data was the most intensive part of the project, and the results produced may not be identical to others attempting the same task. Using the ABS list as a standard and automating the search process errors are kept to a minimum.

#### 3.3 Solving the models

With the data arrays prepared and the linear programme constructed, the programme was coded using the OPL Studio 3.7 modelling language and solved by the CPLEX 8.0 optimizer. Several runs of different versions and sizes of the model were conducted. The final version of the AbsVal1 included 701 journals and 89 institutions. It included roughly 4,400 variables and 2,050 constraints. It solved in a few minutes and gave an objective function value of 23.6, i.e., the sum of all the 445 errors.

This model gave a grade profile for each journal but for the purpose of constructing a journal ranking and comparing it with existing ones it is more appropriate for each journal to have a single grade. There are several ways of achieving this: take the modal grade, i.e., the one with the largest proportion; calculate the mean grade (i.e., the GPA) and then round this to the nearest integer; or get the LP to calculate the best value with the integer version of the model (MIP1).

The integer version proved to be computationally very expensive. After running continuously for 35 days it had still not reached an optimal, fully integer solution. This is not unusual with models that have a large number of integer variables (3500 in our case). It had in fact converged to a near optimal which did not change significantly over 21 days but could not be shown to be the actual optimal.

After inspecting and comparing the results for the three different methods – mode, rounded mean, and MIP it was decided that the mode gave the fairest and most consistent results and so this has been used in the ranking comparisons, but the final table of results (Table 5) includes the grade profile for each journal and the MIP results.

#### 4. The Results

The full results are shown in Table 5 (at the end of the paper) for all the journals that were included in our model, i.e., those with at least three entries. We show the grade awarded based on the mode of the journal profile; the profile itself in terms of the proportions judged to be in each rank; the number of items submitted, the ABS rank where available and the subject classification. An alternative Table sorted into subject area is available from the website.

#### 4.1 Assessing the validity of the reconstruction

Before presenting the results in detail, it is important to evaluate their validity. Have we actually been able to capture something of the judgements made by the RAE Panel? This is a subjective question. Clearly, if the results were wholly at odds with our preconceptions of journal quality we might conclude that the results were not capturing anything meaningful. But we would not expect them to be identical with the existing rankings, partly because of noise in the data resulting from the non-journal outputs being removed, and partly because the Panel were clear that their results did not mirror the existing lists (RAE, 2009a, p. 1). So it is a matter of degrees of concordance.

We first consider the extent of concordance with existing journal rankings.

Table6 Correlations between reconstructed RAE grade and journal rankings (no. of observations)

	ABS 2009	Kent 2007	Geary median	ABS 1* or 4*
RAE grade	0.42 (574)	0.37 (575)	0.42 (416)	
ABS 2009		.69 (574)	0.48 (394)	
Kent 2007			0.49 (394)	
Geary median				
RAE grade 1* or 4*				.61 (183)

Table 6 shows the correlations between the reconstructed RAE grades and the ABS, Kent (Mingers and Harzing, 2007) and the Geary et al (Geary et al., 2004) rankings. Given the large numbers of observations (shown in parenthesis) all the correlations are highly significant. It is noticeable, however, that they are not as high as the correlations between the rankings themselves tend to be, as shown in the ABS documentation. We can see for example that the correlation between the Kent ranking and the ABS one is significantly higher. Nevertheless, it is clear that the RAE calculations are ranking journals in broadly the same way as the rankings. We also looked specifically at the extremes – the 1\* and 4\* journals. These had a higher correlation (0.609) perhaps showing that there is greater agreement about the best and worst journal and less about the boundary between 2\* and 3\*.

Some further evidence is shown by the treatment of non-journal outputs. As explained in the previous section, rather than totally ignore outputs such as books, book chapters and reports we included them as if they were a single journal. This generated a score for each of these categories so that we could see how the category was treated in comparison with the journals. The results are shown in Table 7.

Table 7 Reconstructed grades for non-journal outputs

Tuote / Reconstructed grades for non four har outputs										
Type	Modal grade	Mean grade	No of outputs	No. of institutions						
Authored book	2	2.37	285	68						
Book chapter	2	2.24	333	65						
Edited book	2	1.87	61	28						
External report	1	1.35	102	35						
Other	1	1.31	169	47						

In the third column we can see the mean grade awarded to each output type. From a validation perspective the order of these types is what we would have expected, i.e., authored books were graded most highly, going down through book chapters to other outputs being least valued. This again gives us a degree of confidence in the overall method. In terms of the actual numbers, there was a concern before the RAE that books would be downgraded because they were not refereed. This does seem to have happened in that one might expect that a quality book would be regarded more highly than a single paper and so books should

have achieved a high grading – at least 3\* or more. We can also see that external reports scored poorly which does not bode well for the REF trying to encourage the submission of work that has external impact.

Finally we look at the journals that come out top from our reconstruction in Table 8. In terms of our estimation, the best journals are those that have the highest proportion of 4\*, ideally 100% 4\*. In the Table we have selected all journals that have at least 90% 4\* and we have restricted it to those with at least 8 entries. This results in 32 journals and they are ordered in terms of the number of entries in the RAE. Firstly, all 32 journals are in ABS and only five were less that 3\* or 4\*. They were also generally ranked highly in other lists including Geary's analysis of the 2001 RAE and the citation impact (CI) factor. Interestingly, 17 of them are also included in the FT top-40 list of journals which is used to rank business schools worldwide. Of the rest of the FT-40 list, all but four were graded 3\*, those being *Human Resource Management (USA)*, *International J. of HRM*, *J. of Business Ethics*, and *J. International Business Studies* which were only graded 2\*. Table 8 also includes a sprinkling of the very top American journals such as *AMR*, *Management Science*, *Organization Science*, *HBR* and the *American Economic Review*. Given that these results have been generated purely by the model it does give us confidence that we are genuinely picking up the judgements of the RAE Panel.

Table 8 Top 32 journals from RAE (>=90% 4\* and >= 8 entries)

Table 8 Top 32 Journals J	%4*	%3*			•	Соон	-		ABC costor
Journal	% <b>4</b> *	<b>%3</b> *	Num ber	ABS grade	Kent	Gaer y	5- year Cl index	FT 40	ABS sector
Accounting,	100	0	82	4	4	6	2	У	ACCOUNT
Organisations and									
Society									
Journal of Financial	100	0	39	4	4	7	4	У	FINANCE
Economics									
International Journal of	92.9	7.1	37	3	2	6	3		GEN MAN
Management Reviews									
Journal of Applied	100	0	33	4	4	6.5	3	У	PSYCH
Psychology	04.0		22						ENT
Journal of Business	94.9	5.1	32	4	3	6	4	У	ENT-
Venturing	100	0	20	4			4		SMBUS
Academy of	100	0	30	4	2	6	4	У	GEN MAN
Management Review  Management Science	94.6	5.4	29	4	4	6	4		OR&MANS
ivianagement science	94.0	5.4	29	4	4	O	4	У	CI
Organization Science	100	0	28	4	4	6	4	.,	ORG STUD
_							4	У	
Management	100	0	27	3	2	6		У	IB&AREA
International Review	02.7	<i>C</i> 2	27	4	4		4		FINIANICE
Review of Financial Studies	93.7	6.3	27	4	4	7	4	У	FINANCE
Abacus	100	0	25	2	2	5			ACCOUNT
MIT Sloan Management Review	100	0	23	3	3	7	2	У	GEN MAN
Harvard Business	100	0	19	3	3	7	3		GEN MAN
Review	100	U	19	5	3	/	3	У	GEN IVIAN
Information Systems	100	0	18	3	3	6	3		INFO MAN
Journal	100	U	10	3	3	U	3		INI O IVIAN
Journal of the Academy	100	0	18	4	3	6	3		MKT
of Marketing Science	100	U	10	7	3	O	3		WIKI
American Economic	100	0	17	4	4	6.5	4	У	ECON
Review		-						,	
Journal of Marketing	100	0	17	4	4	7	4	У	MKT
Research								,	
International Journal of	95.7	4.3	14	4	3	6	2		ECON
Industrial Organization									
Fiscal Studies	100	0	13	2	1	5	2		ECON
Marketing Science	100	0	12	4	4	7	4	У	MKT
Journal of Consumer	100	0	11	4	4	7	4	•	MKT
Research	100	J	11	7	7	,	4	У	IVIIXI
Journal of International	100	0	11	3	3	7	4		ECON
Economics	100	J		3	3	•	7		LCOIN
California Management	100	0	10	3	3	6	2	У	GEN MAN
Review		-	-	-	-	-		1	
British Journal of	100	0	9	2	0	4.5			MGDEV&E
Guidance and									D
Counselling									
Journal of Accounting	100	0	9	4	4	5	4	У	ACCOUNT
Research									
			_	_	_	_			

Journal of Health	100	0	9	3	4	4	4	ECON
Economics					-		•	
Personnel Psychology	100	0	9	4	3		4	HRM&EMP
Mathematical Finance	94.2	8	9	3	3	7	3	FINANCE
Academy of	100	0	8	3	2	6	3	GEN MAN
Management Executive								
Journal of International	100	0	8	2	2			IB&AREA
Management								
Journal of	100	0	8	2	3	5		ECON
Macroeconomics								
Review of Economics	100	0	8	4	3	6	4	ECON
and Statistics								

#### 4.2 Comparing the RAE grades with the ABS ranking

As the ABS list has become the *de facto* standard for Business and Management and is used extensively, for better or worse, in making decisions about appointments, promotions and submissions, it is important to see how it compares with the reconstructed RAE grades.

Table 9 Proportions of journals in particular ranks comparing ABS with RAE grades

Note: we show the proportions in terms of % for ease of comparison but all Chi-Square tests were performed
on the underlying frequencies

		ABS Grades		RAE Estimated Grades				
	All journals	Journals not in RAE	Journals in RAE and our list	All our list	Journals not in ABS	Journals in ABS and our list		
4*	10%	4%	15%	17%	13%	18%		
3*	24%	12%	31%	29%	28%	31%		
2*	37%	39%	37%	28%	26%	28%		
1*	27%	45%	17%	23%	19%	22%		
0*				3%	13%	2%		
GPA	2.17	1.74	2.43	2.34	2.09	2.41		

Table 9 shows the proportions of journals awarded different grades from the ABS ranking and our RAE reconstruction. The first column shows the proportions in the total ABS list, whether or not they were submitted in the RAE, with a GPA of 2.17. Column 4 shows the proportions for all those journals in our RAE list (remembering that it excludes journals with less than 3 entries) with a GPA of 2.34. This is significantly higher (X<sup>2</sup>=31.3) than the ABS list but that is to be expected because of the selectivity exercised in submitting to the RAE (this will be discussed later). The proportion of 4\* and 3\* is higher, and 2\* and 1\* lower. A fairer comparison is to consider only those journals that are in common between ABS and our RAE list – columns 3 and 6. These two are in fact very similar with GPAs of 2.43 and 2.41

although there are significant differences ( $X^2=15.6$ ) within grades with the RAE giving more 4\* and 1\*, and less 2\*. In other words, the RAE gave more of the extreme grades.

We can also look at the distribution of differences between the RAE and ABS. Table 10 shows, for each RAE grade, the numbers of journals that were 0, 1, 2 or 3 grades away in ABS. So, of those journals graded 4\* in the RAE, 31 were also 4\* in ABS, 38 were 3\* in ABS, 32 2\* and 4 1\*. At the other end, 18 ABS 3\* were graded 1\* in the RAE and 3 4\* were graded 1\*. These were: *Accounting Review, Journal of Rural Studies* and *Organizational Research Methods* although they all had relatively small numbers of submissions.

Table 10 Differences between RAE 2008 and ABS

RAE 2008 Grade	ABS 2009 grade minus RAE 2008 Grade (absolute value)							
	0 1 2 3							
0*		2	9					
1*	51	51	18	3				
2*	69	73	18					
3*	75	84	16					
4*	31	38	32	4				
Grand Total	226	248	93	7				

#### 4.3 Selectivity of journal submission

We now move to the issue of selectivity of journal submission. On the one hand, as we saw in section 2, there were an increased number of journals entered into RAE 2008 and a significant number of these are not even in the ABS list. This suggests a wide range of material. However, at the same time there is continual pressure on institutions to submit only the best work and this pressure will grow. There is currently concern that increasingly the top business schools will limit their academics to publishing only in the top A-rated journals. Indeed, the Parliamentary Select Committee on Science and Technology raised these very concerns in a report in 2004:

"The perception that the RAE rewards publication in journals with high impact factors is affecting decisions made by authors about where to publish. We urge HEFCE to remind RAE panels that they are obliged to assess the quality of the content of individual articles, not the reputation of the journal in which they are published." (Select Committee on Science and Technology, 2004).

Guidelines recently issued concerning the 2013 RAE (the REF) (HEFCE, 2009) say that they aim to support quality rather than quantity and the number of academics and papers is likely

to reduce. This will lead to institutions focussing even more on those believed to be high quality journals.

The degree of selectivity can be seen from column 2 of Table 9 which shows the grade proportions in those ABS journals that were not submitted in the RAE. These are significantly different to the profile of ABS journals that were submitted ( $X^2=60.1$ ). We can see that 45% of those not submitted were 1\* while only 4% were 4\*. This clearly shows the extent to which attention was focussed on those ABS journals that are at least 2\*.

The possible results of this effect can also be seen in Figure 3 which is a scattergram of the proportion of an institution's submission in ABS journals on the x-axis and the GPA gained by institution on the y-axis. The correlation coefficient is highly significant (0.6) and it explains 36% of the variation in GPA by itself. Taken at face value this shows that the greater the concentration on ABS journals the better an institution did in its GPA. This certainly provides evidence that the RAE Panel grades papers from ABS (or at least mainstream business and management if not ABS *per se*) journals more highly than others.

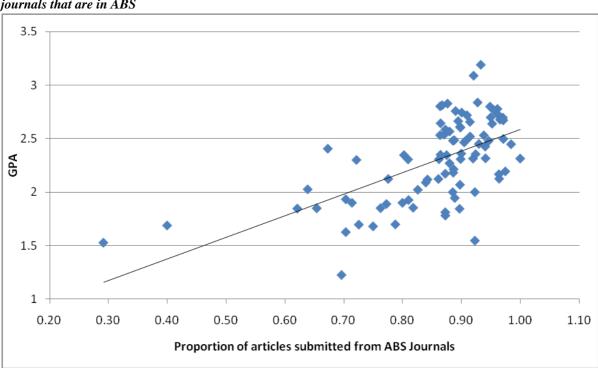


Figure 3 Scattergram showing association between GPA and proportion of an institution's submitted journals that are in ABS

There are other possible interpretations of this association. One might suppose that high quality institutions produce more papers that are in the mainstream of B&M anyway, and that there will be more papers available to be selected, so that the institution can choose mainly ABS ones. Whereas poor quality institutions have to make do with what papers they have, and may include more academics from the fringe areas. On this interpretation, the association would be indirect rather than causal – the high GPA and the high proportion of ABS both reflect underlying high quality rather than one causing the other. Alternatively, one could

interpret it reverse causality and as evidence for the selectivity effect mentioned above – the better quality institutions are more rigorous in limiting their staff to ABS-only journals.

We can get some more evidence directly from columns 5 and 6 of Table 9. This shows the distribution of RAE grades for ABS and non-ABS journals. Did the RAE Panel actually grade ABS journals higher than non-ABS ones? They are significantly different ( $X^2$ =36.3) but although there are fewer 4\* and 3\* than would be expected in the non-ABS journals, the biggest difference is that 13% of the non-ABS journals were allocated 0\* as opposed to only 2% of the ABS ones. In other words, according to our estimates a significant proportion of the non-ABS papers were considered to be of no research merit. This could be a legitimate response of the Panel to submissions that were not relevant to business and management. They state,

"In a very limited number of cases, such left-field outputs were given low grades because of their lack of relevance" (RAE, 2009a, p. 5)

But it could also reflect a conscious or unconscious bias towards recognised journals regardless of paper quality.

Overall, we feel that there is evidence both of extensive selectivity in submissions and possible bias in judgements.

#### 4.5 Dispersion of grades for a journal

Another issue in connection with journal rankings is the extent to which the RAE Panel would award all papers in a particular journal the same grade which would indicate that they simply went by the ranking of the journal. The Panel stated both before and after that they did not intend to do that, and the results do back them up to some extent.

Given that we are choosing the grade of a journal by its modal grade, i.e., the grade with the greatest proportion, we can measure the degree of dispersion by the percentage that is *not* in the modal grade. Journals with 100% in one grade will thus have zero dispersion. The greatest dispersion a journal could have is 66% with 34% being in the modal grade.

Table 11 shows the frequency distribution of dispersion. In fact the majority (62%) have been found to have 100% at a particular grade. Clearly this is only the estimate from our model and we do not know if this is the actual case but there is no reason for our model to choose 100% particularly and one would expect that it would do the best it could to match the grade profiles. So this evidence would suggest that many journals were seen as having only one quality level (although not necessarily the same as their ABS grading of course).

Table 11 Distribution of dispersion of journal grading

% outside the modal grade	Frequency
0	432
<=10	56
10<=20	43
20<=30	55
30<=40	46
40<=50	55
>50	8

Table 12 shows those journals that are ranked as 4\* in ABS but which have a high degree of dispersion in the RAE results. As can be seen, there are some well known journals here and most have a large number of entries so the results should be reliable. In many cases the split is just between two adjacent grades, e.g., *Organization Studies* or *J. Operations Management*, but in some cases it is split much more widely, e.g., *British J. of Social Psychology* or *Organizational Research Methods*. The top journals with little dispersion were shown in Table 8.

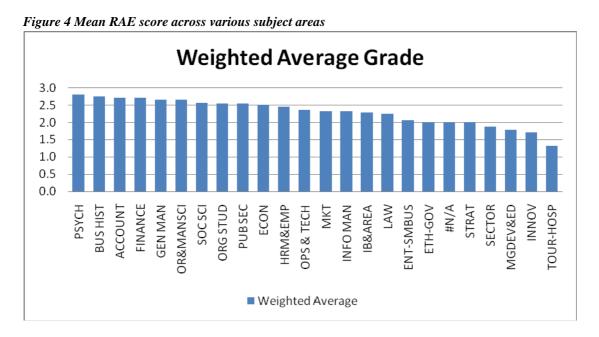
Table 12 ABS 4\* journals with a high degree of dispersion

Journal	4*	3*	2*	1*	0*	RAE	%	No. of
						Mode	dispersion	entries
Organizational Research	0.0	24.6	3.1	47.2	25.1	1	52.8	13
Methods								
Organization Studies	47.3	52.7	0.0	0.0	0.0	3	47.3	144
Industrial Relations: A	53.6	0.0	8.8	37.6	0.0	4	46.4	25
Journal of Economy and								
Society								
Strategic Management	0.1	54.7	45.2	0.0	0.0	3	45.3	38
Journal								
Journal of	0.0	44.5	55.5	0.0	0.0	2	44.5	26
Organisational								
Behaviour								
Journal of Econometrics	43.4	56.6	0.0	0.0	0.0	3	43.4	26
British Journal of Social	57.1	0.0	0.0	42.9	0.0	4	42.9	4
Psychology								
British Journal of	59.5	33.0	7.5	0.0	0.0	4	40.5	99
Industrial Relations								
Journal of Operations	39.7	60.3	0.0	0.0	0.0	3	39.7	31
Management								
Journal of Economic	0.0	60.7	39.3	0.0	0.0	3	39.3	11
Theory								
Public Administration	38.5	61.5	0.0	0.0	0.0	3	38.5	17
Review								
Games and Economic	62.5	37.5	0.0	0.0	0.0	4	37.5	7
Behaviour								
Social Science and	0.0	35.6	64.4	0.0	0.0	2	35.6	11

Medicine								
Journal of Product Innovation Management	0.0	34.1	65.9	0.0	0.0	2	34.1	14
Work, Employment and Society	0.0	72.7	27.3	0.0	0.0	3	27.3	103
Journal of Finance	27.1	72.9	0.0	0.0	0.0	3	27.1	49
Entrepreneurship, Theory and Practice	1.3	76.4	22.3	0.0	0.0	3	23.6	28
Leadership Quarterly	0.0	77.5	22.5	0.0	0.0	3	22.5	4
Journal of Occupational and Organizational Psychology	21.0	79.0	0.0	0.0	0.0	3	21.0	43
Business History	0.0	0.0	79.6	20.4	0.0	2	20.4	37
Journal of Marketing	79.6	20.4	0.0	0.0	0.0	4	20.4	18
Economic Journal	0.0	20.2	79.8	0.0	0.0	2	20.2	37
Regional Studies	0.0	15.4	84.6	0.0	0.0	2	15.4	97
British Journal of Psychology	0.0	0.0	85.0	0.0	15.0	2	15.0	3
MIS Quarterly	0.0	85.4	0.0	14.6	0.0	3	14.6	8
Quarterly Journal of Economics	0.0	12.9	87.1	0.0	0.0	2	12.9	6
Environment and Planning A	0.0	88.3	11.7	0.0	0.0	3	11.7	46

#### 4.6 Differences between subject areas.

It is of interest to look at the relative grading between subject areas. Reports from both the 2001 RAE (Bessant et al., 2003) and the 2008 RAE (RAE, 2009a) make it clear that the subjects were seen to have different levels of quality. So, to what extent is that borne out by the ratings? Figure 4 shows the mean journal grading by the ABS sector for the journal where it was in ABS. Those not in ABS have been given the title "#N/A".



The data show a significant difference from the highest sector, Psychology, with a weighted average score of 2.8 down to Tourism and Hospitality with a score of 1.3. The non-ABS journals have an average of 2.0. The ABS sectors are somewhat different to the subject groups that the RAE Panel report discusses. We can see that many of the long-established disciplines (e.g., Psychology) and management areas (e.g., Accounting and Finance, Operational Research and Organisational Studies) scored highly while newer and perhaps more applied areas (e.g., ethics, management development, innovation and tourism) did less well. Some surprises perhaps are the poor score for Strategy and perhaps the relatively high scores for General Management (which is a bit of a catch-all category) and Public Sector.

We want to look in more detail at specific subject areas and have chosen Operational Research as that is where we have expertise. Note that some more mathematical OR groups were submitted the Statistics and OR Panel so their contributions are not included here. Table 13 shows all OR journals ranked in terms of the RAE grade and then the number of entries. Those with a "-" in the ABS Grade column were not classified in the ABS list but we have added them in as they all would be considered as OR journals. There are seven 4\* journals although all but *Management Science* have small numbers and three do not appear in ABS. Some of these are likely to be due to the small sample, but *Decision Sciences*, *J. of Heuristics* and the *SIAM* journal are generally considered to be strong. In the 3\* journals comes *EJOR* with the second largest entry and a wide range of other journals, many with small entries. It is interestion that *Operations Research*, the other top US journal, has all its entries graded as 3\* rather than 4\*.

The next point of interest is the ranking of *J. of the Operational Research Society (JORS)* as 2\*. This has the largest entry (third highst in the whole RAE) and, together with *EJOR*, is the main publication outlet for UK academics who find it hard to publish in the US journals. *JORS* figured highly in the Geary analysis of the 2001 RAE because of their methodology which rated journals in terms of the departments which published in them. It happens that the largest groups of OR academics are at Lancaster and Warwick which were top rated in 2001 and so JORS secured a high grade. However, this was unrealistic in terms of the journal's world rating (Mingers and Harzing, 2007) as the current result shows. It is a surprise, however, that it has gained no 4\* work at all in our reconstruction. One other anomoly is the J. Optimization Theory and Applications (JOTA) which is a good journal although rated 2\* here. In fact, nearly 50% was graded 4\* but a slightly greater proportion was 2\*.

Table 13 Journals in OR/Management Science ranked by RAE grade and number of entries

Journal	RAE Grad e	Entrie s	4*	3*	2*	1*	0*	ABS Grade	Kent 2007 1* to 4*
Management Science	4	29	94.6	5.4	0.0	0.0	0.0	4	4
Group Decision and Negotiation	4	4	100	0.0	0.0	0.0	0.0	3	2

Operations Research Letters	4	4	100	0.0	0.0	0.0	0.0	2	3
Computational	4	3	100	0.0	0.0	0.0	0.0	-	-
Optimization and									
Applications									
Decision Sciences	4	3	100	0.0	0.0	0.0	0.0	3	3
Journal of Heuristics	4	3	88.4	0.0	0.0	0.0	11.6	-	-
SIAM Journal on	4	3	100	0.0	0.0	0.0	0.0	-	-
Optimization									
European Journal of	3	137	0.0	100	0.0	0.0	0.0	3	3
Operational Research									
Omega: The International	3	37	0.0	83.4	16.6	0.0	0.0	3	2
Journal of Management									
Science									_
Operations Research	3	20	0.0	100	0.0	0.0	0.0	4	4
Systems Research and	3	11	0.0	53.1	46.9	0.0	0.0	2	0
Behavioral Science									
Journal of the Royal	3	9	8.4	91.6	0.0	0.0	0.0	3	4
Statistical Society Series A									
(Statistics in Society)	2	7	0.0	100	0.0	0.0	0.0		
IEEE Transactions on Systems, Man, and	3	7	0.0	100	0.0	0.0	0.0	-	-
Cybernetics - Part A:									
Systems and Humans									
Mathematical	3	7	0.0	100	0.0	0.0	0.0	3	4
Programming	J	•	0.0	200	0.0	0.0	0.0	•	
Advances in Applied	3	5	0.0	100	0.0	0.0	0.0	3	3
Probability									
Annals of Operations	3	5	0.0	100	0.0	0.0	0.0	2	3
Research									
Journal of Combinatorial	3	4	0.0	100	0.0	0.0	0.0	-	-
Optimization									
Computational Statistics	3	3	0.0	100	0.0	0.0	0.0	-	-
& Data Analysis			0.0	02.0			0.0		
Discrete Applied Mathematics	3	3	0.0	92.0	0.0	0.0	8.0	-	-
Interfaces	3	3	0.0	100	0.0	0.0	0.0	2	2
Journal of the Operational Research	2	152	0.0	46.5	53.5	0.0	0.0	3	2
Society									
International Journal of	2	23	0.0	0.0	100	0.0	0.0	3	3
Forecasting	_							-	-
Computers and	2	20	0.0	15.9	84.1	0.0	0.0	2	2
Operations Research									
Journal of Forecasting	2	14	0.0	0.0	100	0.0	0.0	3	3
Theory and Decision	2	9	0.0	0.0	100	0.0	0.0	2	0
International	2	6	0.0	0.0	100	0.0	0.0	2	2
Transactions in			-	-		-	-		
Operational Research									
Journal of Optimization	2	5	40.9	0.0	59.1	0.0	0.0	-	-
Theory and Applications									
Applied Mathematics and	2	3	0.0	0.0	100	0.0	0.0	-	-
Computation									

Naval Research Logistics	1	6	0.0	0.0	0.0	50.3	49.7	3	2
OR Insight	1	4	0.0	0.0	19.5	80.5	0.0	-	-
Simulation Modelling Practice and Theory	1	3	0.0	0.0	0.0	100	0.0	-	-

#### 5. Conclusions

The 2008 RAE has been a huge exercise in peer review and the judgements that were made would have been extremely valuable in addressing some of the issues that surround the whole idea of journal rankings. Unfortunately, the gradings of individual outputs have been kept secret which was, in our view, both unnecessary and undesirable. What we have attempted to do in this paper is to reconstruct the judgements made by the RAE Panel at least at the level of individual journals although not at the level of papers. We have done this by developing a mathematical programming model that determines the best grade profiles to match the overall institutional profiles for all journals submitted that had at least three entries.

We have shown, both in terms of internal reliability and in terms of correspondence with existing ranking lists such as the ABS list, that the results we have generated have a high degree of plausibility. It is extremely unlikely that they do not represent to a reasonable degree the actual judgements made by the Panel although clearly we can never actually assess the extent of the residual error.

With these results, we have been able to comment on several issues that have arisen concerning the conduct and effects of the RAE, as well as produce an RAE-based ranking for around 700 journals in Business and Management and related areas. Many of these journals are not included in the ABS list. Care should be taken in interpreting the results, especially for journals that had few entries.

- Comparing the grades given by the RAE with those in ABS, on those journals that are
  in common the overall results are very similar in terms of the average grade awarded.
  However, there are differences in the proportions of each grade with the RAE giving
  more 4\* and 1\*, and there are differences for particular journals with some being two
  or even three grades apart.
- In terms of the RAE leading to selectivity, there is evidence in both directions. There were a very wide range of journals submitted, many of them not in ABS but many of these non-management journals were given a low rank. It is clear that there was selectivity in the submissions with relatively few ABS 1\* journals being submitted. There is also a clear association between the GPA awarded to an institution and the proportion of its submission that was in ABS journals although the direction and nature of the causality is unclear.
- The RAE Panel was clear that it was not grading papers on the basis of the journal they were published in. There is evidence that supports that since many journals, even top ones, had a degree of dispersion in their gradings. However, our results also

- produced 62% of journals with 100% in a single grade suggestion a considerable degree of uniformity in judgement.
- As expected, there were significant differences in the gradings given to different sectors with Psychology, Accounting and Finance, Management, and OR doing well and Management Development, Innovation, and Tourism faring worst.
- For non-journal outputs, our results show that books (GPA 2.4) and book chapters (GPA 2.2) gained grades that were commensurate with journals, but reports (GPA 1.4) and other forms of output (GPA 1.3) were seen as poor. This does not bode well for the REF and its focus on external research impact.

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#### Table 5Ranking of 700 journals based on a reconstruction of the 2008 RAE

\*The sectors come from mainly the ABS rankings. Where a journal is not in ABS we also looked on the Harzing website and categorised a few from that

	RAE Grade	Pro	portion	of enti	ries in e	ach	No. of Entri	ABS 2009 1* to	Gear y (medi	Kent 2007 1* to	RAE Grade (Integer	
Journal Title	(mode)	4*	3*	2*	1*	0*	es	4*	an)	4*	)	ABS sector*
Abacus	4	100	0	0	0	0	25	2	5	2	4	ACCOUNT
Academy of	4	100	0	0	0	0	8	3	6	2	3	GEN MAN
Management Executive												
Academy of Management Journal	3	0	100	0	0	0	43	4	6	4	4	GEN MAN
Academy of	4	100	0	0	0	0	30	4	6	2	4	GEN MAN
Management Review												
Academy of	3	0	100	0	0	0	12	3		4	3	MGDEV&ED
Management, Learning and Education												
Academy of Marketing	2	0	0	100	0	0	3	2		2	2	МКТ
Science Review												
Accounting and Business	3	38	62	0	0	0	52	3	6	2	4	ACCOUNT
Research Accounting Education	2	0	0	100	0	0	22	2	4		2	MGDEV&ED
	3	0	54	46	0	0	18	2	4		2	ACCOUNT
Accounting Forum Accounting Historians	4	87	13	0	0	0	8	2	4	1	4	BUS HIST
Journal	4	8/	13	U	0	0	٥	2		1	4	ו לוח כטמ
Accounting History	4	100	0	0	0	0	3	2	5.5		4	BUS HIST
Accounting Horizons	4	100	0	0	0	0	5	3	5.5	3	4	ACCOUNT
Accounting in Europe	1	0	0	0	78	22	3	1			1	ACCOUNT
Accounting Review	1	0	0	0	100	0	3	4		4	3	ACCOUNT
Accounting, Auditing	3	0	78	22	0	0	72	3	5	2	2	ACCOUNT
and Accountability Journal												
Accounting, Business and Financial History	1	0	0	22	78	0	15	2	6		1	BUS HIST
Accounting, Organisations and	4	100	0	0	0	0	82	4	6	4	4	ACCOUNT
Society	0					400						1100511050
Active Learning in Higher Education	0	0	0	0	0	100	3	1			2	MGDEV&ED
Administrative Science	3	0	100	0	0	0	6	4	6	4	2	GEN MAN
Quarterly												
Advances in Applied Probability	3	0	100	0	0	0	5	3		3	3	OR&MANSCI
Advances in Consumer	3	0	100	0	0	0	18	2	7	2	3	MKT
Research												
Advances in Developing Human Resources	2	0	0	76	0	24	7	2			2	MGDEV&ED
Advances in Industrial and Labor Relations	1	0	0	0	100	0	4	#N/A		#N/A	3	#N/A
Advances in	2	0	0	100	0	0	3	2		1	4	ACCOUNT
International Accounting								1				
Agricultural Economics	3	0	100	0	0	0	3	2			3	ECON
Al and Society	1	0	0	0	100	0	3	#N/A	4	#N/A	1	#N/A
American Economic Review	4	100	0	0	0	0	17	4	6.5	4	4	ECON
American Journal of	1	0	0	0	88	12	3	3		3	1	ECON
Agricultural Economics										_		
American Journal of Economics and	4	100	0	0	0	0	4	2	6	3	4	SOC SCI
Sociology  American Sociological	2	0	0	100	0	0	3	4	6	4	2	SOC SCI
Review	-			100				-			-	300 301

Annals of Finance	3	0	100	0	0	0	5	1			3	FINANCE
Annals of Operations	3	0	100	0	0	0	5	2	5	3	3	OR&MANSCI
Research			100			U			3	3		ONGWANSCI
Annals of Public and	3	0	100	0	0	0	8	2	4.5	3	3	ECON
Cooperative Economics												
Annals of Regional	2	0	0	100	0	0	3	2	7	2	1	SOC SCI
Science									_			
Annals of Tourism Research	3	0	100	0	0	0	42	4	5	3	3	TOUR-HOSP
Applied Economics	2	0	0	100	0	0	48	2	4	2	3	ECON
Applied Economics	2	0	0	100	0	0	15	1	4.5	1	4	ECON
Letters	2	U	U	100	U	U	15	1	4.5	1	4	ECON
Applied Financial	2	0	0	85	15	0	49	2	5	2	2	FINANCE
Economics						-						
Applied Financial	2	0	0	78	0	22	3	#N/A		#N/A	2	#N/A
Economics Letters												
Applied Mathematics	2	0	0	100	0	0	3	#N/A		#N/A	1	MIS, KM
and Computation Applied Psychology	4	100	0	0	0	0	4	#N/A		#N/A	4	#N/A
								· -	-	ļ <u>'</u>		•
Asia Pacific Business Review	2	22	0	78	0	0	11	2	5	1	1	IB&AREA
Asia Pacific Journal of	4	100	0	0	0	0	3	2	5	2	2	HRM&EMP
Human Resources								-		_	<del>-</del>	
Asia Pacific Journal of	4	100	0	0	0	0	5	3		2	4	GEN MAN
Management												
ASTIN Bulletin: Journal	2	0	0	100	0	0	4	#N/A		#N/A	2	#N/A
of the International												
Actuarial Association  Australasian Journal of	1	0	0	14	86	0	3	#N/A		#N/A	2	#N/A
Regional Studies	1	0	0	14	80	U	3	#11/74		#IN/A	2	#11/74
Australasian Marketing	2	0	0	100	0	0	3	1		1	1	MKT
Journal												
Benchmarking: An	3	0	100	0	0	0	3	1	5	1	1	OPS & TECH
International Journal	_		_		_		_					
Biometrical Journal	0	0	0	0	0	100	3	#N/A		#N/A	4	#N/A
BMJ (Clinical Research	4	61	0	0	39	0	8	#N/A	6	#N/A	4	#N/A
Ed.)	2	0	0	100	0	0	43	3	5	1	2	ACCOUNT
British Accounting Review	2	U	U	100	U	U	43	3	5	1	2	ACCOUNT
British Actuarial Journal	2	0	0	100	0	0	5	#N/A		#N/A	2	#N/A
British Food Journal	1	0	0	0	77	23	9	1	4		1	SECTOR
British Journal of Clinical	0	0	0	0	0	100	3	#N/A		#N/A	1	#N/A
Psychology						100		HIV/A		min/A	-	#14/7
British Journal of	0											
<b>Educational Technology</b>	U	0	0	0	49	51	5	2		2	0	INFO MAN
	Ů.	0								2		
British Journal of	4	100	0	0	49 0	51 0	5 9	2	4.5	2	0	INFO MAN MGDEV&ED
British Journal of Guidance and									4.5	2		
British Journal of Guidance and Counselling	4	100	0	0	0	0	9	2			3	MGDEV&ED
British Journal of Guidance and									4.5	3		
British Journal of Guidance and Counselling British Journal of	4	100	0	0	0	0	9	2			3	MGDEV&ED
British Journal of Guidance and Counselling British Journal of Industrial Relations British Journal of Management	4 3	100 59	0 33 100	7 0	0 0	0 0	9 99 108	2 4 4	5	3 2	3 4 3	MGDEV&ED HRM&EMP GEN MAN
British Journal of Guidance and Counselling British Journal of Industrial Relations British Journal of Management British Journal of Politics	4	100	0 33	7	0	0	9	2 4	5	3	3	MGDEV&ED HRM&EMP
British Journal of Guidance and Counselling British Journal of Industrial Relations British Journal of Management British Journal of Politics & International	4 3	100 59	0 33 100	7 0	0 0	0 0	9 99 108	2 4 4	5	3 2	3 4 3	MGDEV&ED HRM&EMP GEN MAN
British Journal of Guidance and Counselling British Journal of Industrial Relations British Journal of Management British Journal of Politics & International Relations	4 3 2	100 59 0	0 33 100 0	0 7 0 56	0 0 0 44	0 0 0 0	9 99 108 3	2 4 4 #N/A	5	3 2 #N/A	3 3 0	MGDEV&ED  HRM&EMP  GEN MAN  #N/A
British Journal of Guidance and Counselling British Journal of Industrial Relations British Journal of Management British Journal of Politics & International Relations British Journal of	4 3	100 59	0 33 100	7 0	0 0	0 0	9 99 108	2 4 4	5	3 2	3 4 3	MGDEV&ED HRM&EMP GEN MAN
British Journal of Guidance and Counselling British Journal of Industrial Relations British Journal of Management British Journal of Politics & International Relations	4 3 2	100 59 0	0 33 100 0	0 7 0 56	0 0 0 44	0 0 0 0	9 99 108 3	2 4 4 #N/A	5	3 2 #N/A	3 3 0	MGDEV&ED  HRM&EMP  GEN MAN  #N/A
British Journal of Guidance and Counselling British Journal of Industrial Relations British Journal of Management British Journal of Politics & International Relations British Journal of Psychology	4 3 2 2	100 59 0 0	0 33 100 0	0 7 0 56	0 0 0 44	0 0 0 0 15	9 99 108 3	2 4 4 #N/A	5	3 2 #N/A	3 3 0	MGDEV&ED  HRM&EMP  GEN MAN  #N/A  PSYCH
British Journal of Guidance and Counselling British Journal of Industrial Relations British Journal of Management British Journal of Politics & International Relations British Journal of Psychology British Journal of Social Psychology British Journal of	4 3 2 2	100 59 0 0	0 33 100 0	0 7 0 56	0 0 0 44	0 0 0 0 15	9 99 108 3	2 4 4 #N/A	5	3 2 #N/A	3 3 0	MGDEV&ED  HRM&EMP  GEN MAN  #N/A  PSYCH
British Journal of Guidance and Counselling British Journal of Industrial Relations British Journal of Management British Journal of Politics & International Relations British Journal of Psychology British Journal of Social Psychology British Journal of Sociology	4 3 2 2 4	100 59 0 0 0 57	0 33 100 0 0	7 0 56 85 0	0 0 0 44 0 43	0 0 0 0 15 0	9 99 108 3 3 4	2 4 4 #N/A 4 4 3	5 5 5.5	3 2 #N/A 2 1	3 4 3 0 2 1	MGDEV&ED  HRM&EMP  GEN MAN  #N/A  PSYCH  PSYCH  SOC SCI
British Journal of Guidance and Counselling British Journal of Industrial Relations British Journal of Management British Journal of Politics & International Relations British Journal of Psychology British Journal of Social Psychology British Journal of Sociology British Journal of Sociology British Tax Review	4 3 2 2 4 4	59 0 0 0 57 100	33 100 0 0 0	0 7 0 56 85 0 0	0 0 0 44 0 43 0	0 0 0 0 15 0	9 99 108 3 3 4 4	2 4 4 #N/A 4 4 3 2 2	5	3 2 #N/A 2 1 3	3 4 3 0 2 1 1 3	MGDEV&ED  HRM&EMP  GEN MAN  #N/A  PSYCH  PSYCH  SOC SCI  FINANCE
British Journal of Guidance and Counselling British Journal of Industrial Relations British Journal of Management British Journal of Politics & International Relations British Journal of Psychology British Journal of Social Psychology British Journal of Sociology British Tax Review Building Research &	4 3 2 2 4	100 59 0 0 0 57	0 33 100 0 0	7 0 56 85 0	0 0 0 44 0 43	0 0 0 0 15 0	9 99 108 3 3 4	2 4 4 #N/A 4 4 3	5 5 5.5	3 2 #N/A 2 1	3 4 3 0 2 1	MGDEV&ED  HRM&EMP  GEN MAN  #N/A  PSYCH  PSYCH  SOC SCI
British Journal of Guidance and Counselling British Journal of Industrial Relations British Journal of Management British Journal of Politics & International Relations British Journal of Psychology British Journal of Social Psychology British Journal of Sociology British Tax Review Building Research & Information	4 3 2 2 4 4 1 2	59 0 0 0 57 100 0	0 33 100 0 0 0	0 7 0 56 85 0 0 0	0 0 0 44 0 43 0 100 0	0 0 0 0 15 0 0	9 99 108 3 4 4 4	2 4 4 4 4 3 2 #N/A	5.5.5	3 2 #N/A 2 1 3 #N/A	3 0 2 1 1 3 2	MGDEV&ED  HRM&EMP  GEN MAN  #N/A  PSYCH  PSYCH  SOC SCI  FINANCE  #N/A
British Journal of Guidance and Counselling British Journal of Industrial Relations British Journal of Management British Journal of Politics & International Relations British Journal of Psychology British Journal of Social Psychology British Journal of Sociology British Tax Review Building Research &	4 3 2 2 4 4	59 0 0 0 57 100	33 100 0 0 0	0 7 0 56 85 0 0	0 0 0 44 0 43 0	0 0 0 0 15 0	9 99 108 3 3 4 4	2 4 4 #N/A 4 4 3 2 2	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3 2 #N/A 2 1 3	3 4 3 0 2 1 1 3	MGDEV&ED  HRM&EMP  GEN MAN  #N/A  PSYCH  PSYCH  SOC SCI  FINANCE

Health Organization									1			
Business Ethics: A	2	0	0	100	0	0	34	2	4	1	2	ETH-GOV
European Review	_	"	0	100	0	0	34		1	1		LIII-GOV
Business History	2	0	0	80	20	0	37	4	6	2	2	BUS HIST
Business History Review	3	31	69	0	0	0	5	3	6	2	2	BUS HIST
Business Process	2	0	0	100	0	0	13	1	4	1	3	OPS & TECH
Management Journal												
Business Strategy and	1	0	0	0	100	0	17	2	4.5	2	1	STRAT
the Environment			_		_	_		<u> </u>		<u> </u>		
California Management Review	4	100	0	0	0	0	10	3	6	3	2	GEN MAN
Cambridge Journal of	3	0	100	0	0	0	50	3	6	3	3	ECON
Economics			100				30					200.1
Canadian Journal of	4	100	0	0	0	0	5	3	6	3	4	ECON
Economics												
Capital and Class	2	0	0	100	0	0	10	2			2	SOC SCI
Career Development	2	0	0	100	0	0	5	1	4	1	2	HRM&EMP
International China Economic Review	2	0	0	100	0	0	5	2			2	IB&AREA
										401/0		
Climate Policy	1	0	0	37	63	0	3	#N/A		#N/A	2	#N/A
Communications of the ACM	3	43	57	0	0	0	13	3	6	4	1	INFO MAN
Communications of the AIS	4	62	0	0	38	0	3	2			4	INFO MAN
Comparative Economic Studies	2	0	0	100	0	0	5	#N/A		#N/A	1	#N/A
Competition and Change	2	0	0	100	0	0	13	2		2	2	GEN MAN
Computational	4	100	0	0	0	0	3	#N/A		#N/A	4	#N/A
Optimization and								,		•		
Applications												
Computational Statistics & Data Analysis	3	0	100	0	0	0	3	#N/A		#N/A	3	#N/A
Computers & Education	1	0	0	0	71	29	3	#N/A		#N/A	3	#N/A
Computers and	2	0	16	84	0	0	20	2	5.5	2	3	OR&MANSCI
Operations Research			•	400			10	2			2	C50700
Construction  Management and	2	0	0	100	0	0	10	2	5		3	SECTOR
Economics												
Consumption, Markets	3	0	100	0	0	0	20	2	5		3	MKT
and Culture												
Contemporary	3	4	96	0	0	0	7	3	6	3	4	ACCOUNT
Accounting Research Contributions to Political	1	0	0	0	71	29	4	2		2	1	ECON
Economy	-				/ -	23	-	_		_	1	LCOIV
Corporate Governance:	3	33	55	13	0	0	43	3		1	3	ETH-GOV
An International Review												
Corporate Governance:	2	0	0	100	0	0	5	1			2	ETH-GOV
The International Journal of Business in												
Society												
Corporate Ownership	2	0	0	100	0	0	3	#N/A		#N/A	1	#N/A
and Control		<u> </u>					<u> </u>		<u> </u>		ļ .	
Corporate Reputation Review	1	5	0	0	95	0	5	1	5	1	1	ETH-GOV
Creativity and	1	0	0	0	100	0	12	1	5	1	4	INNOV
Innovation Management									ļ			
Criminal Justice	1	6	0	0	94	0	3	#N/A	<u> </u>	#N/A	3	#N/A
Critical Perspectives on Accounting	2	0	0	100	0	0	89	3	5	2	2	ACCOUNT
Critical Perspectives on International Business	2	9	0	91	0	0	4	1			2	IB&AREA
Critical Social Policy	2	0	0	100	0	0	4	#N/A		#N/A	4	#N/A
Cross Cultural	1	0	0	18	82	0	4	1	3	2	3	IB&AREA
Management: An International Journal												
Culture and	3	0	100	0	0	0	16	2		2	3	ORG STUD
Organization												

	Ι 4	Ι ο			100		145	1 2	l -	1	Ι,	TOUR HOSE
Current Issues in Tourism	1	0	0	0	100	0	15	2	5		1	TOUR-HOSP
Decision Sciences	4	100	0	0	0	0	3	3	7	3	1	OR&MANSCI
Decision Support Systems	3	0	100	0	0	0	21	3	5	3	3	INFO MAN
Defence and Peace Economics	2	0	0	98	2	0	7	2	4		2	ECON
Derivatives Use, Trading and Regulation	2	0	0	100	0	0	3	1	5		2	FINANCE
Development in Practice	2	0	0	100	0	0	3	#N/A		#N/A	1	#N/A
Development Policy	2	0	0	100	0	0	3	#N/A		#N/A	2	#N/A
Review	_	Ŭ		100		Ů	3			<b>.</b>	_	<i></i>
Discrete Applied Mathematics	3	0	92	0	0	8	3	#N/A		#N/A	3	#N/A
<b>Ecological Economics</b>	3	0	100	0	0	0	13	3	5	3	3	ECON
Econometric Theory	3	0	100	0	0	0	6	3	6	3	2	ECON
Econometrica	3	0	100	0	0	0	5	4	6	4	2	ECON
Econometrics Journal	2	0	0	100	0	0	5	3			2	ECON
Economic and Industrial Democracy	2	0	25	75	0	0	27	3	4.5	2	2	HRM&EMP
Economic History Review	3	0	100	0	0	0	14	4	5.5	3	3	SOC SCI
Economic Inquiry	2	0	0	100	0	0	13	3	6	3	2	ECON
Economic Journal	2	0	20	80	0	0	37	4	6	4	2	ECON
Economic Modelling	1	0	0	37	63	0	7	2	5	1	4	ECON
Economic Policy	3	0	100	0	0	0	3	3	7	3	3	ECON
Economic Theory	3	0	100	0	0	0	12	3	7	3	3	ECON
Economica	2	0	0	100	0	0	21	3	6	3	2	ECON
Economics Letters	2	11	0	89	0	0	56	3	5.5		2	ECON
Economics of Education	4	72	28	0	0	0	6	2			3	ECON
Review Economics of	2	0	19	81	0	0	3	#N/A		#N/A	3	#N/A
Governance	2	Ü	19	01	Ü	Ü	,	#IN/A		#IN/A	3	#IN/A
Economics of Innovation and New Technology	2	0	26	74	0	0	6	2		2	2	ECON
Economics of Planning	1	0	0	0	70	30	6	1		2	1	ECON
Economics of Transition	3	0	100	0	0	0	9	1		2	3	ECON
Economy and Society	3	0	100	0	0	0	9	3	5	3	3	SOC SCI
Education and Training	1	0	0	0	100	0	12	1	4		1	MGDEV&ED
Educational Management	2	0	0	100	0	0	7	#N/A		#N/A	3	#N/A
Administration & Leadership												
Electronic Markets	4	62	0	0	0	38	4	1		1	4	SOC SCI
Emergence: Journal in Complexity Management	3	1	99	0	0	0	5	1	5		4	ORG STUD
Empirical Economics	3	0	62	38	0	0	3	2		2	3	ECON
Employee Relations	1	0	0	39	61	0	46	2	5	1	1	HRM&EMP
Energy Economics	1	0	0	0	100	0	3	2		2	1	ECON
Energy Journal	1	0	0	0	100	0	4	3			4	SECTOR
Energy Policy	1	0	0	0	100	0	16	#N/A	6	#N/A	1	#N/A
Enterprise and Society	1	0	31	0	69	0	10	3			2	BUS HIST
Entrepreneurship and Regional Development	2	0	4	96	0	0	24	3	5	1	2	ENT-SMBUS
Entrepreneurship, Theory and Practice	3	1	76	22	0	0	28	4	5	2	3	ENT-SMBUS
Environment and Planning A	3	0	88	12	0	0	46	4	5	3	3	SOC SCI
Environment and Planning C: Government and Policy	3	0	80	20	0	0	60	3	5	3	3	PUB SEC
Environment and	4	100	0	0	0	0	5	4	5	3	4	SOC SCI
	1			1			1 -	1				

	1			1		1	1	1		1	1	
Planning D: Society and Space												
Environmental and Resource Economics	1	0	0	0	100	0	5	2	5		1	ECON
Environmental	3	0	100	0	0	0	3	#N/A		#N/A	2	#N/A
Management Equal Opportunities	2	0	0	100	0	0	6	#N/A		#N/A	2	#N/A
International Ethics and Information	4	81	19	0	0	0	4	#N/A		#N/A	3	#N/A
Technology European Accounting	3	0	84	16	0	0	24	3	5	2	3	ACCOUNT
Review	3		84		U	U	24				3	ACCOUNT
European Business Review	1	0	0	0	100	0	19	2	3	2	1	GEN MAN
European Economic Review	3	0	100	0	0	0	19	3	6.5	3	3	ECON
European Educational Research Journal	1	0	0	0	100	0	3	#N/A		#N/A	1	#N/A
European Environment	2	0	0	62	0	38	5	#N/A	5	#N/A	1	#N/A
European Finance Review	3	0	100	0	0	0	5	3	7	2	3	FINANCE
European Financial	2	0	48	52	0	0	32	3	6	2	3	FINANCE
Management European Intellectual	3	0	95	0	3	2	3	#N/A		#N/A	1	#N/A
Property Review European Journal of	2	0	0	100	0	0	15	3	5	2	2	FINANCE
Finance European Journal of	4	100	0	0	0	0	3	#N/A		#N/A	4	#N/A
Housing Policy						Ů						
European Journal of Industrial Relations	2	0	22	78	0	0	32	3	4	2	3	HRM&EMP
European Journal of Information Systems	4	88	12	0	0	0	49	3	5	2	4	INFO MAN
European Journal of Innovation Management	1	0	0	14	86	0	4	1	5	1	2	INNOV
European Journal of Marketing	3	0	57	43	0	0	146	3	5	2	2	MKT
European Journal of Operational Research	3	0	100	0	0	0	137	3	6	3	3	OR&MANSCI
European Journal of	2	0	0	100	0	0	10	2		3	2	ECON
Political Economy European Journal of	4	91	0	9	0	0	5	3		3	3	PSYCH
Social Psychology European Journal of the	4	100	0	0	0	0	3	#N/A		#N/A	4	#N/A
History of Economic Thought		100					3				·	,,,,
European Journal of	1	0	0	0	100	0	12	2	5	1	2	PSYCH
Work and Organizational												
Psychology European Management	3	1	75	0	25	0	29	1	5	1	3	GEN MAN
Journal  European Management	3	0	100	0	0	0	7	1			3	GEN MAN
Review European Planning	1	0	0	0	100	0	11	2		3	1	SOC SCI
Studies European Review of	2	0	0	100	0	0	3	2	3	2	2	ECON
Agricultural Economics European Review of	3	0	100	0	0	0	4	#N/A		#N/A	2	ECONOMICS
Economic History										,,,,		
European Urban and Regional Studies	1	0	0	0	100	0	6	3			1	IB&AREA
Evaluation	1	0	0	0	100	0	3	2		1	1	SOC SCI
Expert Systems Expert Systems with	0	0	0	0	0 84	100	9	#N/A 3	6	#N/A 3	0	MIS, KM INFO MAN
Applications												
Facilities Feminist Economics	0 3	0	100	0	14	85 0	7	#N/A 3	5	#N/A	3	#N/A SOC SCI
reminist Economics	3	U	100	U	U	U	5	3			5	SUC SCI

Finance and Stochastics	4	100	0	0	0	0	4	3		2	4	FINANCE
Financial Accountability	4	77	0	23	0	0	30	3	5	1	4	FINANCE
and Management												
Financial Analysts Journal	3	0	100	0	0	0	13	3	6	3	3	FINANCE
Financial History Review	4	100	0	0	0	0	5	2			4	BUS HIST
Financial Management (USA)	4	100	0	0	0	0	4	3	6	3	2	FINANCE
Financial Markets, Institutions and	2	0	0	100	0	0	4	3		3	4	FINANCE
Instruments Fiscal Studies	4	100	0	0	0	0	13	2	5	1	1	ECON
Food Control	1	0	0	0	100	0	3	#N/A	3	#N/A	1	#N/A
								-		#IN/A		
Food Policy	1	0	32	11	57	0	8	2	4	1	1	SECTOR
Futures	2	0	0	100	0	0	19	2	4	2	2	SOC SCI
Fuzzy Sets and Systems	0	0	0	0	0	100	3	#N/A		#N/A	0	#N/A
Games and Economic Behaviour	4	62	38	0	0	0	7	4	6	2	4	ECON
Gender, Work and Organization	3	0	63	37	0	0	35	3	4	1	2	HRM&EMP
Geneva Papers on Risk and Insurance Theory	3	0	100	0	0	0	5	2	4	1	3	FINANCE
Geoforum	1	0	0	0	100	0	3	#N/A		#N/A	1	#N/A
Global Finance Journal	2	36	0	64	0	0	5	2		,	2	FINANCE
Governance: An	4	100	0	0	0	0	3	3			3	PUB SEC
International Journal of Policy and Administration												
Group Decision and Negotiation	4	100	0	0	0	0	4	3	5	2	4	OR&MANSCI
Harvard Business Review	4	100	0	0	0	0	19	3	7	3	4	GEN MAN
Health Care Management Science	1	0	0	0	100	0	4	1			1	SECTOR
Health Economics	2	0	0	100	0	0	6	2		2	3	ECON
Health Policy	2	0	0	100	0	0	3	#N/A	5	#N/A	3	#N/A
Health Services Management Research	1	0	0	0	100	0	13	1	5	1	1	SECTOR
Higher Education	3	0	72	28	0	0	3	#N/A		#N/A	3	PSM
Higher Education Quarterly	2	0	0	100	0	0	5	2			2	MGDEV&ED
Historical Studies in Industrial Relations	2	0	0	100	0	0	7	#N/A	5	#N/A	2	#N/A
History of Political Economy	4	100	0	0	0	0	6	2	5	3	4	ECON
Housing Studies	3	0	78	22	0	0	3	#N/A		#N/A	3	#N/A
Human Relations	3	9	91	0	0	0	171	4	5		3	ORG STUD
Human Resource Development	1	0	0	41	59	0	22	2	3		2	MGDEV&ED
International												
Human Resource Development Review	2	0	0	100	0	0	3	2			2	MGDEV&ED
Human Resource Management (USA)	2	0	0	100	0	0	13	4	5	3	2	HRM&EMP
Human Resource Management Journal	2	0	4	96	0	0	65	3	5	2	2	HRM&EMP
IEEE Transactions on Engineering Management	3	2	98	0	0	0	12	3		2	1	OPS & TECH
IEEE Transactions on Evolutionary Computation	4	100	0	0	0	0	4	#N/A		#N/A	4	#N/A
IEEE Transactions on Systems, Man, and Cybernetics - Part A:	3	0	100	0	0	0	7	#N/A		#N/A	3	#N/A
Systems and Humans												

r	1						1				1	1 .
IEEE Transactions on Systems, Man, and Cybernetics - Part C: Applications and Reviews	3	21	79	0	0	0	3	#N/A		#N/A	2	#N/A
IIE Transactions	4	100	0	0	0	0	4	#N/A		#N/A	4	
IMA Journal of Management Mathematics	0	0	0	0	1	99	7	2	6		0	OR&MANSCI
Industrial and Corporate Change	4	72	15	0	13	0	30	3	6	2	4	SOC SCI
Industrial and Labor Relations Review	2	0	0	100	0	0	10	3	5	3	2	HRM&EMP
Industrial Law Journal	3	0	100	0	0	0	8	3	4		1	LAW
Industrial Management and Data Systems	1	0	6	0	94	0	4	1		1	2	INFO MAN
Industrial Marketing Management	2	0	44	56	0	0	72	3	5	2	3	MKT
Industrial Relations Journal	3	0	55	45	0	0	60	2	5	1	2	HRM&EMP
Industrial Relations: A Journal of Economy and Society	4	54	0	9	37	0	25	4		3	2	HRM&EMP
Industry and Higher Education	3	0	81	19	0	0	8	1			3	MGDEV&ED
Industry and Innovation	1	0	0	0	77	23	7	2	6	1	1	INNOV
Information and Management	2	0	0	100	0	0	28	3	6	2	2	INFO MAN
Information and Organization	3	0	100	0	0	0	26	3		1	3	INFO MAN
Information and Software Technology	3	0	100	0	0	0	4	2			2	INFO MAN
Information Research	4	100	0	0	0	0	3	#N/A		#N/A	4	#N/A
Information Resources	2	0	0	100	0	0	3	1			2	INFO MAN
Management Journal Information Society	3	0	100	0	0	0	4	2		2	3	INFO MAN
Information System Frontiers	0	0	0	0	50	50	3	2			2	INFO MAN
Information Systems Journal	4	100	0	0	0	0	18	3	6	3	4	INFO MAN
Information Systems Management	2	0	0	100	0	0	3	2		2	2	INFO MAN
Information Systems Research	3	0	100	0	0	0	6	4	5.5	4	3	INFO MAN
Information Technology and People	1	0	0	0	100	0	13	2	6	2	1	INFO MAN
Information, Communication and Society	2	0	0	100	0	0	7	1	5		1	SOC SCI
INFORMS Journal on Computing	3	0	100	0	0	0	3	3			3	INFO MAN
Innovations in Education & Teaching International	1	0	0	0	100	0	4	#N/A		#N/A	1	#N/A
Insurance Mathematics and Economics	2	8	0	92	0	0	18	2		3	2	ECON
Integrated Manufacturing Systems	1	0	0	0	100	0	6	2	6	2	2	OPS & TECH
Intelligent Systems in Accounting, Finance and Management	1	0	0	0	100	0	7	2			1	FINANCE
Interacting with Computers	3	0	86	0	14	0	5	2	4		2	INFO MAN
Intereconomics	1	0	0	12	88	0	7	#N/A	6	#N/A	1	#N/A
Interfaces	3	0	100	0	0	0	3	2	7	2	2	OR&MANSCI
International Business Review	2	32	0	68	0	0	31	2	5	2	4	IB&AREA
International Economic Review	3	0	100	0	0	0	3	4	7	3	3	ECON

						1		1		1		1
International	3	0	100	0	0	0	3	1			3	ENT-SMBUS
Entrepreneurship and												
Management Journal	_			100					_			400011117
International Journal of Accounting	2	0	0	100	0	0	9	3	5	1	2	ACCOUNT
International Journal of Advanced	3	0	68	0	32	0	3	#N/A		#N/A	3	#N/A
Manufacturing												
Technology												
International Journal of Advertising	3	0	100	0	0	0	13	2	5	1	2	MKT
International Journal of	1	0	0	0	100	0	3	1			1	OPS & TECH
Agile Management Systems												
International Journal of	2	0	0	100	0	0	3	#N/A		#N/A	2	#N/A
Agile Manufacturing International Journal of	3	7	93	0	0	0	9	2	5		3	ACCOUNT
Auditing	3	<b>'</b>	33					_			3	Account
International Journal of Bank Marketing	1	0	21	0	79	0	10	1	4	1	1	MKT
International Journal of	2	0	0	100	0	0	5	#N/A		#N/A	2	#N/A
<b>Business Governance</b>	-			100						,,,,,	_	
and Ethics												
International Journal of Consumer Studies	1	0	0	0	58	42	19	1			1	MKT
International Journal of	1	0	0	0	100	0	10	2	4	1	1	TOUR-HOSP
Contemporary Hospitality Management												
International Journal of	1	0	0	0	100	0	4	1		1	1	IB&AREA
Cross Cultural	_				100		-	1		*	-	IDGAILLA
Management												
International Journal of	2	0	0	100	0	0	3	3		3	2	MKT
Electronic Commerce												
International Journal of Entrepreneurial	2	0	0	100	0	0	26	2	4	1	2	ENT-SMBUS
Behaviour and Research												
International Journal of Entrepreneurship and	1	0	0	36	64	0	6	2		1	2	ENT-SMBUS
Innovation												
International Journal of	1	0	4	0	96	0	11	1			1	ENT-SMBUS
Entrepreneurship and												
Innovation Management (IJEIM)												
International Journal of	1	0	0	0	100	0	10	2	6	3	1	FINANCE
Finance and Economics	0	0	0	0	2	07	1	2	-	1	1	ODE 9 TECH
International Journal of Flexible Manufacturing	0	0	0	0	3	97	3	2		2	1	OPS & TECH
Systems												
International Journal of Forecasting	2	0	0	100	0	0	23	3	5	3	1	OR&MANSCI
International Journal of	2	0	34	51	0	16	6	1	5		2	SECTOR
Health Care Quality Assurance												
International Journal of	3	0	100	0	0	0	5	#N/A	-	#N/A	3	#N/A
Healthcare Technology	. •	]		]				,		,		,.
and Management International Journal of	1	0	0	0	100	0	5	1	4		1	TOUR-HOSP
Heritage Studies	1		J	J	100	U	,		4			
International Journal of	1	0	0	27	73	0	17	2	2.5	2	2	TOUR-HOSP
Hospitality Management International Journal of	2	8	24	68	0	0	132	3	5	3	2	HRM&EMP
Human Resource												
Management	2	0	0	100	0	0	3	3	5	2	2	INIEO NAANI
International Journal of Human-Computer	2	J	U	100	J	0	3	5	٦	2	_	INFO MAN
Studies												
International Journal of Industrial Organization	4	96	4	0	0	0	14	4	6	3	4	ECON
International Journal of	1	0	0	0	100	0	26	2	4	2	1	INFO MAN
Information												

Management							1		1			1
International Journal of	1	0	0	0	100	0	3	#N/A		#N/A	2	#N/A
Information Technology	1	U	U	U	100	U	3	#IN/A		#IN/A	2	#IN/A
and Management												
International Journal of	3	0	100	0	0	0	20	2	5	2	2	INNOV
Innovation Management												
International Journal of	1	0	0	0	62	38	6	#N/A		#N/A	0	#N/A
Knowledge, Culture and												
Change Management							4-		_		2	0000 7500
International Journal of	4	55	45	0	0	0	15	2	5	2	3	OPS & TECH
Logistics Management International Journal of	3	0	73	15	13	0	22	2	5		3	OPS & TECH
Logistics: Research and		0	/3	13	13		22				3	OI 3 & TECH
Applications												
International Journal of	1	0	0	0	100	0	3	#N/A	4	#N/A	1	#N/A
Management												
International Journal of	2	0	39	55	5	0	9	1			1	GEN MAN
Management and												
Decision Making	2	0	0	100	0	0	3	1			2	MCDEVISED
International Journal of Management Education	2	0	0	100	U	U	3	1			3	MGDEV&ED
(IJME)												
International Journal of	4	93	7	0	0	0	37	3	6	2	4	GEN MAN
Management Reviews	]					-		1	1	-		
International Journal of	2	0	0	100	0	0	6	2	4	1	2	HRM&EMP
Manpower												
International Journal of	2	0	0	100	0	0	25	2	4	2	2	MKT
Market Research												
International Journal of	1	0	0	0	100	0	10	1			1	MKT
Nonprofit and Voluntary												
Sector Marketing International Journal of	3	40	60	0	0	0	134	3	5	2	4	OPS & TECH
Operations and		40	00				134	3			7	OI 3 & TECH
Production												
Management												
International Journal of	1	0	0	0	100	0	13	1	5	2	3	OPS & TECH
Physical Distribution and												
Logistics Management		_			_	_					_	
International Journal of Production Economics	3	0	77	23	0	0	60	3	5.5	2	3	OPS & TECH
International Journal of	3	0	85	0	15	0	71	3	5.5	3	3	OPS & TECH
Production Research	3	U	65	U	13	0	/1	3	3.3	3	3	OF3 & ILCII
International Journal of	0	0	0	0	0	100	3	1			0	OPS & TECH
Productivity and												
Performance												
Management												
International Journal of	2	0	0	93	7	0	32	2	5	1	2	OPS & TECH
Project Management		•	_	_	26	6.4						
International Journal of Psychophysiology	0	0	0	0	36	64	3	#N/A		#N/A	3	#N/A
International Journal of	4	53	47	0	0	0	3	2		2	4	PUB SEC
Public Administration		),	-'	"				_		_	7	. 00 520
International Journal of	2	0	0	83	17	0	44	2	4	2	2	PUB SEC
Public Sector												
Management	ļ											
International Journal of	2	0	0	100	0	0	16	2	5	2	2	OPS & TECH
Quality and Reliability												
Management	4	100	0	0	0	0	5	3	5	3	4	NAKT
International Journal of Research in Marketing	4	100	U	U	U	U	٥	3	٥	3	4	MKT
International Journal of	1	0	0	0	100	0	34	1	4	1	1	SECTOR
Retail and Distribution	-					-	1	1 -	]	1 -		
Management												
International Journal of	2	0	0	100	0	0	3	3	3.5	3	3	HRM&EMP
Selection and												
Assessment									<u> </u>		1	
International Journal of	2	0	47	53	0	0	17	2	5	2	2	SECTOR
Service Industry												
Management			<u> </u>		<u> </u>			<u> </u>				

International Journal of Sociology and Social	4	65	0	0	35	0	4	1			1	SOC SCI
International Journal of	2	0	0	97	3	0	4	#N/A		#N/A	1	#N/A
Stress Management International Journal of Technology and Human	3	0	100	0	0	0	3	#N/A		#N/A	2	#N/A
Interaction International Journal of Technology	2	0	0	100	0	0	33	2	5	2	3	OPS & TECH
Management International Journal of the Economics of	3	12	88	0	0	0	8	3	6	2	4	ECON
Business International Journal of	1	0	0	0	100	0	4	#N/A		#N/A	1	#N/A
International Journal of Theoretical and Applied Finance	4	100	0	0	0	0	7	2			4	FINANCE
International Journal of Tourism Research	1	0	0	30	70	0	29	2	4		1	TOUR-HOSP
International Journal of Urban and Regional	4	100	0	0	0	0	5	#N/A		#N/A	4	SOCIOLOGY
Research International Marketing Review	1	0	24	10	66	0	28	3	4.5	1	3	MKT
International Review of Administrative Sciences	0	0	0	4	10	86	7	2	4	2	2	GEN MAN
International Review of Applied Economics	1	0	0	0	100	0	12	2	4	3	1	ECON
International Review of Economics Education International Review of	1	38	0	0	100 62	0	3	#N/A 3		#N/A 1	4	#N/A FINANCE
Financial Analysis International Review of	1	0	0	0	100	0	4	2		2	1	LAW
Law and Economics International Review of	3	0	37	36	27	0	15	#N/A	5	#N/A	3	MARKETING
Retail Distribution & Consumer Research International Review of	2	0	0	79	21	0	13	1	5	1	2	MKT
Retail Distribution and Consumer Research												
International Small Business Journal International Studies of	1	0	32	17	68 83	0	51 18	3	5	2	2	ENT-SMBUS GEN MAN
Management and Organisation			0	17	83	0	16	2	5	2	1	GEN IVIAN
International Tax and Public Finance	2	0	0	100	0	0	4	2			2	FINANCE
International Transactions in Operational Research	2	0	0	100	0	0	6	2	7	2	1	OR&MANSCI
Internet Research	2	0	0	100	0	0	3	2	4		3	INFO MAN
Investment Management and Financial Innovations	1	0	0	30	70	0	3	1			1	FINANCE
Irish Journal of Management	1	0	0	0	100	0	4	#N/A		#N/A	0	#N/A
Journal of Accounting and Economics	4	100	0	0	0	0	5	4	7	4	4	ACCOUNT
Journal of Accounting and Organizational Change	1	0	0	0	100	0	3	1			3	ACCOUNT
Journal of Accounting and Public Policy	4	63	0	37	0	0	13	3	5	3	2	ACCOUNT
Journal of Accounting Research	4	100	0	0	0	0	9	4	5	4	4	ACCOUNT
Journal of Advanced Nursing	1	0	0	0	72	28	8	#N/A	7	#N/A	1	#N/A

Incomed of Advantision		Ι ο	100	I 0		0	1.4	1 2	l -			NAVE
Journal of Advertising	3	0	100	0	0	0	14	3	5	2	3	MKT
Journal of Advertising Research	1	25	10	0	64	0	14	3	4	2	3	MKT
Journal of Agricultural	3	0	100	0	0	0	10	2			3	ECON
Economics	3	U	100	U	U	U	10	2			3	ECON
Journal of Applied	3	0	100	0	0	0	6	2	4.5	1	3	ACCOUNT
Accounting Research		Ŭ	100			Ů		_	1.5	1		7.0000111
Journal of Applied	4	100	0	0	0	0	4	2	5		1	ORG STUD
Behavioral Science												
Journal of Applied	4	100	0	0	0	0	5	2	6.5	2	4	FINANCE
Corporate Finance												
Journal of Applied	3	0	100	0	0	0	12	3	6.5	3	3	ECON
Econometrics	_	400		•	_				6.5			DOVOL
Journal of Applied Psychology	4	100	0	0	0	0	33	4	6.5	4	4	PSYCH
Journal of Applied Social	0	33	0	25	0	42	3	2		2	4	PSYCH
Psychology		33		23		72		_		_	-	131011
Journal of Banking and	2	2	46	53	0	0	76	3	6	3	3	FINANCE
Finance												
Journal of Bionics	1	0	0	0	58	42	3	#N/A		#N/A	1	#N/A
Engineering												
Journal of Brand	1	0	0	0	100	0	6	1	4	1	1	MKT
Management		_	400	_			1.5	<u> </u>	6.5	<u> </u>		CENTA CO.
Journal of Business	3	0	100	0	0	0	16	4	6.5	4	2	GEN MAN
Journal of Business and	2	0	0	100	0	0	8	4	7	3	2	ECON
Economic Statistics Journal of Business and	2	0	0	100	0	0	15	2	5	1	3	MKT
Industrial Marketing	2	U	U	100	U	U	15	2	5	1	3	IVIKI
Journal of Business	2	0	6	79	15	0	81	3	3	2	2	ETH-GOV
Ethics	-			, ,			01			-	-	
Journal of Business	3	24	70	6	0	0	125	3	6	3	3	FINANCE
Finance and Accounting												
Journal of Business Law	3	0	100	0	0	0	7	2			3	LAW
Journal of Business	3	0	88	0	0	12	3	2		2	2	OPS & TECH
Logistics												
Journal of Business	2	0	9	91	0	0	81	3	6	3	2	GEN MAN
Research Journal of Business	4	95	5	0	0	0	32	4	6	3	4	ENT-SMBUS
Venturing	4	95	Э	U	U	U	32	4	О	3	4	EINT-SIVIBUS
Journal of Change	1	0	0	0	100	0	5	1			0	STRAT
Management	_							_				
Journal of Combinatorial	3	0	100	0	0	0	4	#N/A		#N/A	0	OR, MS, POM
Optimization												
Journal of Common	3	0	70	30	0	0	3	3	6	2	1	IB&AREA
Market Studies		2.0			_				_		2	50011
Journal of Comparative Economics	2	36	0	64	0	0	11	3	5	2	3	ECON
Journal of Computer	2	0	0	84	0	16	5	2			0	INFO MAN
Information Systems	-			0.		10		_				
Journal of Construction	3	0	100	0	0	0	3	#N/A		#N/A	1	#N/A
Engineering and												
Management			<u> </u>	<u> </u>	L	<u> </u>						
Journal of Consumer	2	0	0	97	3	0	15	2		2	2	MKT
Behaviour Journal of Consumer	4	100	0	0	0	0	11	4	7	4	3	NAVT
Research	4	100	0	U	0	0	11	4	'	4	3	MKT
Journal of Corporate	2	0	0	100	0	0	20	3	6	3	4	FINANCE
Finance	1 -		-		-	-				-	1	
Journal of Customer	1	0	0	0	70	30	3	1			0	MKT
Behaviour												
Journal of Derivatives	3	0	100	0	0	0	4	2	6	2	3	FINANCE
Journal of Development	4	100	0	0	0	0	7	3	6.5	3	4	ECON
Economics			ļ.,			L		<u> </u>		<u> </u>		
Journal of Development	3	0	100	0	0	0	13	3	5.5	3	2	SOC SCI
Studies  Journal of Econometrics	2	42	F 7	0	0	0	26	4	6	2	2	ECON
	3	43	57	0	0	0	26		6	3	3	ECON
Journal of Economic	2	0	0	100	0	0	15	3	6	3	3	ECON
Behaviour and	<u> </u>			l		<u> </u>	1		]	1	<u> </u>	

Organization		I	1	I	1			I	1	1	1	I
					_						_	
Journal of Economic	3	0	100	0	0	0	20	3	6	2	3	ECON
Dynamics and Control	2	0	0	100	0	0	10	4			3	COCCCI
Journal of Economic Geography	2	0	0	100	U	U	10	4			3	SOC SCI
Journal of Economic	1	0	0	0	100	0	10	1	4	2	1	ECON
Issues	_				100		10	1	-	_	_	LCOIV
Journal of Economic	2	0	0	100	0	0	4	4	4	4	3	ECON
Literature												
Journal of Economic	4	100	0	0	0	0	5	2			4	ECON
Methodology												
Journal of Economic	3	0	100	0	0	0	11	2	5	2	2	PSYCH
Psychology												
Journal of Economic	3	0	57	43	0	0	6	2	4	2	2	ECON
Studies												
Journal of Economic	3	0	61	39	0	0	11	4	7	4	2	ECON
Theory												
Journal of Economics	3	0	100	0	0	0	5	1		2	2	ECON
and Business	2	0	100	0		0	_	2	-	_		CTDAT
Journal of Economics	3	0	100	0	0	0	4	3	5	1	2	STRAT
and Management Strategy												
Journal of Education and	3	0	100	0	0	0	6	2	5	-	3	MGDEV&ED
Work			100					_				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Journal of Education	1	0	0	0	100	0	4	2	7	2	1	MGDEV&ED
Policy			_			_						
Journal of Empirical	4	56	0	44	0	0	14	3	6.5	3	2	FINANCE
Finance												
Journal of End User	2	0	0	59	41	0	5	#N/A	4	#N/A	3	MIS, KM
Computing												
Journal of Enterprising	1	0	0	0	100	0	3	1	4.5	1	1	ENT-SMBUS
Culture												
Journal of	2	0	0	100	0	0	8	4		3	3	ECON
Environmental												
Economics and												
Management Journal of	1	0	0	0	100	0	3	#NI / A		#NI/A	1	#N1/A
Environmental Planning	1	U	U	U	100	U	3	#N/A		#N/A	1	#N/A
and Management												
Journal of Epidemiology	1	0	0	0	100	0	3	#N/A		#N/A	3	#N/A
& Community Health								,		,		,
Journal of	2	0	0	100	0	0	5	1	4	1	3	MKT
Euromarketing												
Journal of European	2	0	0	100	0	0	4	2		2	2	SOC SCI
Economic History												
Journal of European	1	0	0	0	100	0	14	1	4	1	1	MGDEV&ED
Industrial Training						_			_			
Journal of European	1	25	0	31	45	0	10	3	5	3	4	PUB SEC
Public Policy	3	4.4	E.C.	0	0	0	12	2	6	3	3	ECON
Journal of Evolutionary Economics	5	44	56	U	١	U	12		0	3	5	ECON
Journal of Experimental	4	100	0	0	0	0	4	3	6	3	3	PSYCH
Social Psychology	"	100		3			-	,		,	,	13.01
Journal of Finance	3	27	73	0	0	0	49	4	7	4	3	FINANCE
Journal of Finance and	1	0	0	0	100	0	7	1	1		1	FINANCE
Management in Public	1	J		J	100		′	1			1	I IIVAINCE
Services	1											
Journal of Financial and				1		0	10	4	5.5	4	3	FINANCE
Journal Of Fillaticidi dilu	3	0	100	0	0				1 -	1	1	1
Quantitative Analysis	3	0	100	0	0							
	3	0	100	0	0	0	3	#N/A		#N/A	3	ECONOMICS
Quantitative Analysis				0			3	#N/A		#N/A	3	
Quantitative Analysis  Journal of Financial							3 39	#N/A	7	#N/A	3	ECONOMICS FINANCE
Quantitative Analysis Journal of Financial Econometrics Journal of Financial Economics	3	0 100	100	0	0	0		4		4	4	
Quantitative Analysis Journal of Financial Econometrics Journal of Financial Economics Journal of Financial	3	0	100	0	0	0			7			
Quantitative Analysis Journal of Financial Econometrics Journal of Financial Economics Journal of Financial Intermediation	3 4 2	0 100 0	100	0 0 35	0 0	0 0 32	39	3	7	4	2	FINANCE
Quantitative Analysis Journal of Financial Econometrics Journal of Financial Economics Journal of Financial Intermediation Journal of Financial	3	0 100	100	0	0	0	39	4		4	4	FINANCE
Quantitative Analysis Journal of Financial Econometrics Journal of Financial Economics Journal of Financial Intermediation Journal of Financial Regulation and	3 4 2	0 100 0	100	0 0 35	0 0	0 0 32	39	3	7	4	2	FINANCE
Quantitative Analysis Journal of Financial Econometrics Journal of Financial Economics Journal of Financial Intermediation Journal of Financial	3 4 2	0 100 0	100	0 0 35	0 0	0 0 32	39	3	7	4	2	FINANCE

According   Common   Common	Research							1		1		I	1
Services Research		1	0	0	0	100	0	6	1	4		0	NAKT
		1	U	U	U	100	U	0	1	4		0	IVIKI
		0	14	0	0	0	86	3	2	6	1	3	FINANCE
Stability	Services Research												
Journal of Fixed Income		3	0	100	0	0	0	4	#N/A		#N/A	3	#N/A
Journal of Forecasting													
Journal of Futures							_	-					
Markets													
Journal of General		3	0	100	0	0	0	21	3	5.5	3	3	FINANCE
Management		2	0	70	12	0	0	11	2	4	1	2	CEN MAN
Journal of Health   Economics   Federal   Fe		5	U	79	12	U	9	11	2	4	1	2	GEN WAN
Journal of Health		4	100	0	0	0	0	9	3	4	4	4	ECON
Organisation and Management	Economics												
Management		1	0	0	0	100	0	5	1			1	SECTOR
Journal of Health   Services Research and Policy   Poli	_												
Services Research and Policy   Services Research and Policy   Journal of Heuristics   4   88   0   0   0   100   0   3   81N/A   81N/A   1   81N/A		2	0	01	10	0	0	-	1	-		2	CECTOR
Policy		3	U	81	19	U	U	5	1	5		3	SECTOR
Dournal of Hospitality   2													
And Tourism	1	4	88	0	0	0	12	3	#N/A		#N/A	2	#N/A
And Tourism	Journal of Hospitality	2	0	0	100	0	0	3	#N/A		#N/A	1	#N/A
Journal of Industrial   2	and Tourism												
Ecology													
Journal of Industrial   1		2	0	0	100	0	0	4	2		3	3	SOC SCI
Economics		1	0	0	0	100	0	5	2	5.5	2	0	ECON
Dournal of Information   Science		1	U		U	100	U	,	3	3.3	3	0	LCON
Dournal of Information Technology		1	0	0	0	100	0	4	2		1	1	INFO MAN
Technology	Science												
Journal of Institutional and Theoretical Economics	Journal of Information	3	0	100	0	0	0	51	3	5	2	3	INFO MAN
And Theoretical Economics							_				<u> </u>		
Economics		4	100	0	0	0	0	4	2	6	2	4	ECON
Dournal of International Economics   2													
Economics		4	100	0	0	0	0	6	1	4		4	ECON
Journal of International   Accounting, Auditing and Taxation   Development   Dournal of International   Accounting, Auditing and Taxation   Development   Dournal of International	Interdisciplinary												
Accounting, Auditing and Taxation   2													
Augustion   Company   Co		3	0	100	0	0	0	3	2			3	ACCOUNT
Dournal of International Business Studies	J												
Business Studies		2	0	0	100	0	0	69	4	6	4	2	IB&AREA
Development		_			200							_	1367111271
Dournal of International   Economics   Dournal of International   Economics   Dournal of International   Dournal of Internation		1	0	0	0	100	0	5	1	5	1	1	ECON
Economics													
Dournal of International Entrepreneurship		4	100	0	0	0	0	11	3	7	3	3	ECON
Entrepreneurship		1	n	0	n	100	Λ	6	1			1	FNT_SMRIIS
Dournal of International Financial Management and Accounting		_				100		"	1			1	LIVI SIVIDOS
Financial Management and Accounting		3	42	58	0	0	0	3	2	6	1	3	FINANCE
Dournal of International Financial Markets,   Institutions and Money   Surprise   Surp	•												
Financial Markets,   Institutions and Money									<u> </u>				
Institutions and Money		2	0	0	100	0	0	15	3		1	2	FINANCE
Dournal of International   4   100   0   0   0   0   8   2   2   1   IB&AREA	l *												
Management         Image: Company of International Marketing	-	4	100	0	0	0	0	8	2	<u> </u>	2	1	IB&AREA
Marketing         Image: Company of International Money and Finance         Image: Company of International Money and Finance <td></td> <td></td> <td></td> <td>Ĺ</td> <td>Ĺ</td> <td>Ĺ</td> <td></td> <td>L_</td> <td></td> <td></td> <td></td> <td></td> <td></td>				Ĺ	Ĺ	Ĺ		L_					
Journal of International Money and Finance   3		2	0	0	100	0	0	15	3	6	3	2	MKT
Money and Finance         Second Street         Seco										<u> </u>	_		
Journal of Knowledge Management         2         0         42         58         0         0         11         2         2         ORG STUD           Journal of Labour Research         2         0         0         100         0         4         2         5         2         1         HRM&EMP           Journal of Law and         2         2         0         98         0         0         4         2         4         2         LAW		3	0	100	0	0	0	22	3	6	3	3	FINANCE
Management         Journal of Labour Research         2         0         0         100         0         4         2         5         2         1         HRM&EMP           Journal of Law and         2         2         0         98         0         0         4         2         4         2         LAW		2	n	42	5.0	0	0	11	2	1		2	ORG STUD
Journal of Labour Research         2         0         0         100         0         4         2         5         2         1         HRM&EMP           Journal of Law and         2         2         0         98         0         0         4         2         4         2         LAW			J	+4	50			**	-				01/03100
Research         Session of Law and 2         2         0         98         0         0         4         2         4         2         LAW		2	0	0	100	0	0	4	2	5	2	1	HRM&EMP
Society		2	2	0	98	0	0	4	2	4		2	LAW
	Society							<u> </u>		<u> </u>			

	1							1			T	1
Journal of	4	100	0	0	0	0	8	2	5	3	4	ECON
Macroeconomics Journal of	1	0	0	0	100	0	4	2	5	1	1	MKT
Macromarketing	1	U	U	U	100	U	4	2	5	1	1	IVIKI
Journal of Management	4	100	0	0	0	0	7	4	6	3	3	GEN MAN
Journal of Management	3	0	100	0	0	0	3	2		2	3	ACCOUNT
Accounting Research			100					_		_	3	Accoont
(American Accounting												
Association)												
Journal of Management	2	0	0	60	40	0	4	1	4	1	0	MGDEV&ED
Development												
Journal of Management	1	0	15	10	75	0	5	2	4.5		1	MGDEV&ED
Education								2	_	_		05111111
Journal of Management Inquiry	3	0	53	47	0	0	14	3	5	3	4	GEN MAN
Journal of Management	3	0	100	0	0	0	219	4	5	3	3	GEN MAN
Studies	3	0	100	0	U	U	219	4	٦	3	3	GLIN IVIAIN
Journal of Managerial	2	0	0	100	0	0	17	1	5	1	2	PSYCH
Psychology												
Journal of	3	40	55	5	0	0	13	2			3	OPS & TECH
Manufacturing												
Technology												
Management				_				_	_			
Journal of Marketing	4	80	20	0	0	0	18	4	5	4	3	MKT
Journal of Marketing	2	0	0	100	0	0	9	2	4	1	2	MKT
Communications Journal of Marketing	1	0	0	0	100	0	4	2		2	2	MGDEV&ED
Education	1	U	U	U	100	U	4	2		2	2	MGDEV&ED
Journal of Marketing	2	0	1	99	0	0	125	3	5	2	2	МКТ
Management	_		_				123			-	_	
Journal of Marketing	4	100	0	0	0	0	17	4	7	4	4	MKT
Research												
Journal of Mathematical	1	0	0	0	100	0	7	3		3	1	ECON
Economics	_								_			
Journal of Monetary	2	0	0	100	0	0	7	4	7	4	2	ECON
Economics Journal of Money, Credit	3	48	52	0	0	0	17	3	5.5	3	3	FINANCE
and Banking	3	40	32				17	3	3.3	3	3	TINANCE
Journal of Multinational	3	0	51	0	0	49	5	2		1	2	FINANCE
Financial Management												
Journal of Nonprofit &	2	0	0	100	0	0	4	#N/A	4	#N/A	2	MARKETING
Public Sector Marketing												
Journal of Nursing	1	0	0	0	100	0	3	#N/A		#N/A	1	#N/A
Management	3	21	79	0	0	0	42	4	5	3	3	DCVCII
Journal of Occupational and Organizational	3	21	/9	U	U	U	43	4	5	3	3	PSYCH
Psychology												
Journal of Occupational	4	90	10	0	0	0	6	2	6	1	3	PSYCH
Health Psychology							<u> </u>		<u> </u>	<u> </u>		
Journal of Operations	3	40	60	0	0	0	31	4	7	3	3	OPS & TECH
Management			<u> </u>		<u> </u>	<u> </u>	<u> </u>					
Journal of Optimization Theory and Applications	2	41	0	59	0	0	5	#N/A		#N/A	4	OR, MS, POM
Journal of	2	0	45	55	0	0	26	4	5.5	-	2	ORG STUD
Organisational	-		1 75				20	-	ر.ر		_	51.6 5100
Behaviour												
Journal of	2	0	0	100	0	0	22	2	5	1	3	ORG STUD
Organizational Change												
Management												
Journal of Peace	2	0	0	100	0	0	3	#N/A		#N/A	2	#N/A
Research	2		400					1			2	FINIANICS
Journal of Pension	3	0	100	0	0	0	3	1			3	FINANCE
Economics and Finance Journal of Personal	4	100	0	0	0	0	4	2	5	2	0	MKT
Selling and Sales	-	100					-	-				IVIIXI
Management												
Journal of Personality	4	100	0	0	0	0	6	4	6	4	4	PSYCH
and Social Psychology												
Journal of Policy	1	0	8	0	92	0	4	2		2	2	SOC SCI
-		•	•	•	•	•		•		•	•	

Modelling												
Journal of Political	4	100	0	0	0	0	3	4	6	4	3	ECON
Economy		100						-		-		LCOIV
Journal of Population	3	0	100	0	0	0	6	3		1	3	ECON
Economics												
Journal of Portfolio	3	0	100	0	0	0	13	2	6.5	2	3	FINANCE
Management												
Journal of Post	1	0	0	2	98	0	9	2	5.5	3	1	ECON
Keynesian Economics	2	_	0	100	0	0	40	4				NAU/T
Journal of Product and Brand Management	2	0	0	100	0	0	10	1	4	1	1	MKT
Journal of Product	2	0	34	66	0	0	14	4	6	3	4	INNOV
Innovation Management	_		34	00			1-7	-			-	INIVOV
Journal of Productivity	3	0	100	0	0	0	12	2	4	3	3	OPS & TECH
Analysis												
Journal of Property	2	0	0	100	0	0	4	#N/A		#N/A	2	#N/A
Research												
Journal of Public	4	100	0	0	0	0	7	4		2	4	PUB SEC
Administration:												
Research and Theory Journal of Public	3	5	95	0	0	0	11	3	5	3	3	ECON
Economics	] 3	ر	95	J		"	11	3		3	3	LCOIN
Journal of Public Policy	3	41	59	0	0	0	5	3		2	1	PUB SEC
and Marketing		-		-		_						
Journal of Purchasing	4	100	0	0	0	0	7	2			4	OPS & TECH
and Supply												
Management												
Journal of Real Estate	3	0	100	0	0	0	4	2		2	2	FINANCE
Finance and Economics		•	100	_		_		2				50050
Journal of Regional Science	3	0	100	0	0	0	3	3	4	3	2	SOC SCI
Journal of Regulatory	3	0	100	0	0	0	7	2	5.5	2	4	ECON
Economics	]	0	100	0			'		3.3		7	LCON
Journal of Retailing	4	100	0	0	0	0	6	4	5	3	4	MKT
Journal of Retailing and	1	0	0	0	100	0	10	1	5	1	1	MKT
Consumer Services	1				100			1		-	-	IVIKI
Journal of Risk and	3	0	100	0	0	0	6	2	5	2	2	FINANCE
Insurance												
Journal of Risk and	3	0	100	0	0	0	7	4	6	3	3	SOC SCI
Uncertainty	_	_		_		_		_			_	
Journal of Risk Research	3	0	100	0	0	0	8	2			3	SOC SCI
Journal of Rural Studies	1	0	0	0	100	0	13	4	4	3	1	SOC SCI
Journal of Service	2	0	7	93	0	0	15	3		2	2	SECTOR
Research	_	_	_			_		_			_	
Journal of Services	2	0	0	100	0	0	21	3	4	1	2	MKT
Marketing Journal of Small	1	0	0	12	88	0	32	2	4	1	1	ENT-SMBUS
Business and Enterprise	1	U	U	12	00	U	32	2	4	1	1	EINT-SIVIBUS
Development												
Journal of Small	3	0	100	0	0	0	9	3	5	2	3	ENT-SMBUS
Business Management												
Journal of Social Policy	3	0	100	0	0	0	9	3		3	3	PUB SEC
Journal of Sports	0	0	0	0	28	72	3	#N/A		#N/A	0	#N/A
Economics												
Journal of Strategic	3	0	100	0	0	0	21	3	6	2	2	INFO MAN
Information Systems	2	6	60	40	_		1.5	-	_	<u> </u>		NAUCT.
Journal of Strategic	3	0	60	40	0	0	41	2	5	2	2	MKT
Marketing Journal of Sustainable	1	0	0	0	100	0	17	1	5	1	1	TOUR-HOSP
Tourism	*				100		1′	1		*	*	10011-11034
Journal of Technology	1	0	0	0	100	0	3	#N/A	6	#N/A	0	#N/A
Transfer		-		-		_					1	'
Journal of the Academy	4	100	0	0	0	0	18	4	6	3	4	MKT
of Marketing Science												
Journal of the American	3	0	100	0	0	0	4	#N/A		#N/A	3	#N/A
Society for Information												
Science and Technology	2	0	0	00	10	0	0	2		1	1	ECON
Journal of the European	2	0	0	90	10	0	8	3	<u> </u>	1	2	ECON

Economic Association (JEEA)												
Journal of the Operational Research	2	0	46	54	0	0	152	3	6	2	2	OR&MANSCI
Society												
Journal of the Royal Statistical Society Series	3	8	92	0	0	0	9	3	4	4	2	OR&MANSCI
A (Statistics in Society)	_	_										
Journal of the Textile Institute	3	0	100	0	0	0	4	2			2	SECTOR
Journal of Transport	2	0	0	46	44	10	3	2	5	2	1	SECTOR
Economics and Policy					400		10					600.00
Journal of Transport Geography	1	0	0	0	100	0	10	2			1	SOC SCI
Journal of Travel Research	2	0	4	96	0	0	22	3	4	3	2	TOUR-HOSP
Journal of Vacation Marketing	1	0	0	0	100	0	3	1	4		1	TOUR-HOSP
Journal of Vocational Behavior	2	0	0	100	0	0	16	4	5	3	4	HRM&EMP
Journal of Vocational Education and Training	2	0	0	100	0	0	6	1			2	MGDEV&ED
Journal of World	3	0	100	0	0	0	32	3	6	3	3	IB&AREA
Business (formerly Columbia JWB)												
Journal on Chain and	2	0	0	100	0	0	3	#N/A		#N/A	3	#N/A
Network Science Knowledge and Process	3	0	100	0	0	0	7	1	5	1	3	OPS & TECH
Management	3	U	100	U		U	,	1	3	1	3	OF S & FECT
Knowledge Management Research	3	0	69	1	30	0	7	1		2	3	INFO MAN
and Practice  Kybernetes	0	0	0	0	0	100	3	#N/A		#N/A	0	#N/A
Kyklos	1	0	0	0	100	0	6	3	5	3	1	ECON
Labour Economics	3	23	77	0	0	0	10	3		3	4	ECON
Labour: Review of	3	0	100	0	0	0	3	1	6	2	3	HRM&EMP
Labour Economics and												
Industrial Relations Land Economics	1	0	0	0	100	0	4	3	5	2	1	ECON
Leadership	3	0	100	0	0	0	14	N	3	2	2	ORG STUD
Leadership and	2	0	18	52	30	0	5	1	4	1	2	ORG STUD
Organisational Development										_		
Leadership Quarterly	3	0	77	23	0	0	4	4	7	3	3	ORG STUD
Learning Organization	1	0	0	0	63	37	4	1			0	ORG STUD
Legal and Criminological Psychology	1	0	0	0	100	0	3	#N/A		#N/A	1	#N/A
Leisure Studies	1	0	8	0	92	0	7	2	4		1	TOUR-HOSP
Local Economy	2	0	0	100	0	0	15	2	4	2	2	SOC SCI
Local Government Studies	2	0	0	100	0	0	31	2	4.5	3	2	PUB SEC
Long Range Planning	3	0	100	0	0	0	47	3	5	2	3	STRAT
Macroeconomic	2	0	0	97	0	3	6	2			2	ECON
Dynamics  Management	2	0	3	97	0	0	34	3	6	3	3	ACCOUNT
Accounting Research									Ů.	3		
Management and Organisational History	3	0	100	0	0	0	5	1			2	BUS HIST
Management Decision	1	0	0	0	100	0	32	1	4	1	1	GEN MAN
Management International Review	4	100	0	0	0	0	27	3	6	2	4	IB&AREA
Management Learning	2	0	34	66	0	0	66	3	5	2	3	GEN MAN
Management Science	4	95	5	0	0	0	29	4	6	4	3	OR&MANSCI
Managerial and Decision	3	0	100	0	0	0	18	2	6	2	3	ECON
Economics												
Economics  Managerial Auditing	1	0	0	13	87	0	14	1	4	1	2	ACCOUNT

Journal		I								I		
	2	0	0	100	0	0	15	1	2	1	2	FINANCE
Managerial Finance	2	0	0	100	0	0	15	1	3	1	2	FINANCE TOUR-HOSP
Managing Leisure: An International Journal	1	0	0	0	100	0	4	1	4		1	TOUR-HOSP
Managing Service Quality	1	0	0	0	100	0	5	1	4	1	1	OPS & TECH
Manchester School	2	0	34	66	0	0	22	2	6	2	2	ECON
Manufacturing and	3	0	100	0	0	0	4	2		1	3	OPS & TECH
Service Operations												
Management (M& SOM)			_		22				_		2	650700
Marine Policy	2	0	0	68	32	0	8	2	5	3	2	SECTOR
Marine Resource Economics	1	0	0	0	100	0	7	#N/A		#N/A	1	#N/A
Marketing Intelligence and Planning	1	0	0	0	100	0	22	1	4	1	1	MKT
Marketing Letters	3	0	98	2	0	0	7	3	7	3	1	MKT
Marketing Review	1	0	0	0	100	0	7	1		1	0	MKT
Marketing Science	4	100	0	0	0	0	12	4	7	4	4	MKT
Marketing Theory	4	72	28	0	0	0	7	2		2	4	MKT
Mathematical Finance	4	94	6	0	0	0	9	3	7	3	4	FINANCE
Mathematical Programming	3	0	100	0	0	0	7	3	6	4	4	OR&MANSCI
Metroeconomica	4	100	0	0	0	0	5	#N/A		#N/A	4	#N/A
Milbank Quarterly	4	91	9	0	0	0	3	4			3	PUB SEC
MIS Quarterly	3	0	85	0	15	0	8	4	6	4	3	INFO MAN
MIT Sloan Management	4	100	0	0	0	0	23	3	7	3	4	GEN MAN
Review		100	Ü									02.11
National Institute Economic Review	3	0	100	0	0	0	5	2	6		1	ECON
Naval Research Logistics	1	0	0	0	50	50	6	3		2	1	OR&MANSCI
New Political Economy	1	0	12	0	88	0	5	2			1	SOC SCI
New Technology, Work and Employment	4	78	0	22	0	0	35	3	5	2	3	HRM&EMP
Non-Profit and Voluntary Sector	2	0	0	100	0	0	3	3		3	2	SECTOR
Quarterly Non-Profit Management	2	0	0	100	0	0	5	1	4	2	2	SECTOR
and Leadership	_			100		ľ		1		_	_	SECTOR
North American Actuarial Journal	2	0	0	100	0	0	6	#N/A		#N/A	2	#N/A
Occupational and Environmental Medicine	4	90	0	0	10	0	3	#N/A		#N/A	0	#N/A
Omega: The	3	0	83	17	0	0	37	3	5	2	3	OR&MANSCI
International Journal of Management Science												
Open Economies Review	1	0	0	0	100	0	4	1			1	ECON
Operations Research	3	0	100	0	0	0	20	4	7	4	4	OR&MANSCI
Operations Research Letters	4	100	0	0	0	0	4	2		3	4	OR&MANSCI
OR Insight	1	0	0	19	81	0	4	#N/A	4	#N/A	0	#N/A
Organization	3	0	100	0	0	0	83	3	5	3	3	ORG STUD
Organization Science	4	100	0	0	0	0	28	4	6		4	ORG STUD
Organization Studies	3	47	53	0	0	0	144	4	5	3	3	ORG STUD
Organizational Behaviour and Human	3	0	100	0	0	0	8	4	6	4	3	PSYCH
Decision Processes	<u> </u>						<u> </u>				<u> </u>	
Organizational Dynamics	4	100	0	0	0	0	5	3	5.5	3	4	ORG STUD
Organizational Research Methods	1	0	25	3	47	25	13	4		4	1	ORG STUD
Oxford Bulletin of Economics and Statistics	3	0	100	0	0	0	17	3	6	2	3	ECON
Oxford Economics Papers	3	0	100	0	0	0	18	3	6	3	3	ECON
Oxford Review of	3	0	100	0	0	0	5	2	6		2	ECON
23.0.0.000.00			-00		<u> </u>			_			_	

Economic Policy							1					
Pacific Basin Finance	4	100	0	0	0	0	4	2	5	1	4	FINANCE
Journal	*	100					*	_	,		4	TINAINCE
Parliamentary Affairs	1	0	13	0	87	0	5	2	4		2	SOC SCI
Personality and Social Psychology Bulletin	4	100	0	0	0	0	5	4	7	4	3	PSYCH
Personnel Psychology	4	100	0	0	0	0	9	4		3	4	HRM&EMP
Personnel Review	2	0	2	79	19	0	57	2	4	1	1	HRM&EMP
Philosophy of	1	0	0	0	100	0	6	#N/A		#N/A	1	#N/A
Management/Reason in Practice					100			,^		,	]	
Physica A: Statistical	2	0	0	100	0	0	5	#N/A		#N/A	2	#N/A
Mechanics and Its												
Applications		<u> </u>					1.5				1	
Policy and Politics	3	0	95	5	0	0	33	3	6	2	2	SOC SCI
Policy Studies	1	0	0	0	100	0	9	2	5	2	1	PUB SEC
Political Studies	4	100	0	0	0	0	3	2		2	4	SOC SCI
Post-Communist	1	0	0	0	100	0	3	1			1	ECON
Economies	1		100				-	шь:/-	4	461/5	1	451/5
Proceedings of the Institution of	3	0	100	0	0	0	7	#N/A	4	#N/A	3	#N/A
Mechanical Engineers - Part B: Journal of												
Engineering												
Manufacture									<u></u>			
Production and	4	100	0	0	0	0	7	3		2	3	OPS & TECH
Operations												
Management	2	0	E2	47	0	0	17	3	5	2	2	ODC 9 TECH
Production Planning and Control	3		53						5			OPS & TECH
Project Management Journal	1	0	0	0	100	0	5	2		2	1	OPS & TECH
Prometheus	0	0	0	0	47	53	10	2	5		2	SOC SCI
Psychology and	3	0	100	0	0	0	24	3	6	2	3	MKT
Marketing Public Administration and Development	2	0	0	100	0	0	4	2	5	2	2	PUB SEC
Public Administration Review	3	39	61	0	0	0	17	4	6	3	3	PUB SEC
Public Administration: An International Quarterly	3	0	65	35	0	0	78	3	6	3	2	PUB SEC
Public Choice	4	66	34	0	0	0	6	3	4	3	4	ECON
Public Integrity	1	0	0	0	100	0	3	#N/A		#N/A	4	#N/A
Public Management	2	0	0	100	0	0	28	2			2	PUB SEC
Review												
Public Money and Management	2	0	39	61	0	0	48	2	5	2	3	PUB SEC
Public Policy and Administration	2	0	0	71	29	0	22	2	4		1	PUB SEC
Qualitative Market Research	3	0	51	0	49	0	8	1	4	1	1	MKT
Qualitative Research in Organizations and Management	1	0	0	0	100	0	3	1			0	ORG STUD
Quality and Safety in Health Care	2	0	0	100	0	0	3	#N/A		#N/A	3	#N/A
Quantitative Finance	3	0	100	0	0	0	10	2			4	FINANCE
Quarterly Journal of Economics	2	0	13	87	0	0	6	4		4	3	ECON
Quarterly Review of	2	0	0	100	0	0	6	2		2	2	ECON
Economics and Finance R and D Management	2	0	0	100	0	0	25	3	4.5	2	2	INNOV
RAND Journal of	3	0	100	0	0	0	5	3	7	4	3	ECON
Economics Real Estate Economics	3	0	100	0	0	0	6	2			2	ECON
near Estate Economics	3	U	100	U	U	U	٥					ECUN

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Regional Science and Urban Economics	4	55	45	0	0	0	5	3	6	3	3	SOC SCI
Regional Studies	2	0	15	85	0	0	97	4	4	3	2	SOC SCI
Relations	1	43	0	0	57	0	4	#N/A		#N/A	1	#N/A
Industrielles/Industrial								•				
Relations												
Reliability Engineering	4	100	0	0	0	0	4	3	5	2	4	OPS & TECH
and System Safety Research Evaluation	3	0	100	0	0	0	3	#N/A		#N/A	2	#N/A
Research in the	4	100	0	0	0	0	3	3		3	4	SOC SCI
Sociology of	4	100	U	U	U	U	3	3		5	4	300 301
Organizations												
Research Policy	3	0	100	0	0	0	95	4	6	3	3	SOC SCI
Review of Accounting	3	0	100	0	0	0	9	4		3	3	ACCOUNT
Studies	2		100	_	_	_	-	2		2	2	FINIANICE
Review of Derivatives Research	3	0	100	0	0	0	5	2		3	3	FINANCE
Review of Development	1	0	0	41	59	0	3	#N/A		#N/A	2	#N/A
Economics								,		,		
Review of Economic	3	0	100	0	0	0	16	4	7	4	4	ECON
Studies Review of Economics	4	100	0	0	0	0	0	4	6	2	1	ECON
Review of Economics and Statistics	4	100	0	0	0	0	8	4	6	3	4	ECON
Review of Finance	4	100	0	0	0	0	3	2			0	FINANCE
Review of Financial	2	1	0	99	0	0	5	1		2	2	ECON
Economics												
Review of Financial	4	94	6	0	0	0	27	4	7	4	4	FINANCE
Studies	4	100	0	0	0	0	2	2		2	4	FCON
Review of Industrial Organization	4	100	0	0	U	0	3	2	5.5	2	4	ECON
Review of International	2	0	0	100	0	0	7	3			2	ECON
Economics												
Review of International	2	0	0	100	0	0	8	3			2	SOC SCI
Political Economy Review of Political	2	0	0	100	0	0	6	1			2	ECON
Economy	2	"	U	100	U	U	6	1			2	ECON
Review of Public	1	0	0	41	59	0	3	1			2	HRM&EMP
Personnel												
Administration Review of Quantitative	4	100	0	0	0	0	4	3	5	3	4	FINANCE
Finance and Accounting	4	100	U	U	U	U	4	3	5	3	4	FINANCE
Review of Social	3	0	100	0	0	0	5	2	5	2	4	SOC SCI
Economy												
Risk Analysis: An	2	0	0	100	0	0	10	4	5.5		2	SOC SCI
International Journal Scandinavian Actuarial	2	0	0	100	0	0	3	#N/A		#N/A	3	#N/A
Journal				100			3	#IN/A		#10/7	3	#13/7
Scandinavian Journal of	2	0	0	100	0	0	4	3		3	3	ECON
Economics					L		_	1		ļ	<u> </u>	
Scandinavian Journal of Management	1	0	0	0	100	0	6	2	6	2	1	GEN MAN
Science	4	100	0	0	0	0	4	#N/A		#N/A	4	#N/A
Science and Public Policy	3	0	82	18	0	0	8	2	5	2	1	SOC SCI
Scientometrics	3	0	100	0	0	0	3	#N/A		#N/A	3	#N/A
Scottish Journal of	2	0	0	71	29	0	24	2	5	3	2	ECON
Political Economy		Ľ	Ľ	L	L	Ľ	<u>_</u> '	L		Ľ	<u> </u>	
Service Industries	2	0	0	100	0	0	92	2	5	2	2	MKT
Journal		400	6					112.12		112.12		00.440.5511
SIAM Journal on Optimization	4	100	0	0	0	0	3	#N/A		#N/A	4	OR, MS, POM
Simulation Modelling	1	0	0	0	100	0	3	#N/A		#N/A	1	#N/A
Practice and Theory	_						-	,,,		,,,,	-	,.,
Small Business	3	12	64	24	0	0	42	3	6	2	3	ENT-SMBUS
Economics						0.5	<u> </u>			ļ		DOVOU
Small Group Research	0	0	0	0	21	80	4	2			2	PSYCH
Social Choice and	1	0	0	0	70	30	4	3		3	4	ECON
Welfare	<u> </u>	I							]	1	<u> </u>	<u> </u>

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Social Policy and Administration	1	0	0	0	100	0	4	3	4.5	3	1	PUB SEC
Social Policy and Society	0	0	0	0	13	87	3	#N/A		#N/A	1	#N/A
Social Science and Medicine	2	0	36	64	0	0	11	4	5.5	3	4	SECTOR
Society and Business Review	2	0	0	100	0	0	3	2			2	SOC SCI
Socio-Economic Review	1	0	0	0	100	0	6	2			1	SOC SCI
Sociological Review	3	49	51	0	0	0	20	3	5	3	3	SOC SCI
Sociology	2	0	10	90	0	0	24	3	5	3	2	SOC SCI
Sociology of Health & Illness	4	100	0	0	0	0	3	#N/A		#N/A	2	#N/A
Southern Economic Journal	3	0	100	0	0	0	9	3	5.5	3	3	ECON
Strategic Change	1	0	0	22	78	0	46	2	4	1	1	STRAT
Strategic Management Journal	3	0	55	45	0	0	38	4	6	4	2	STRAT
Stroke	0	0	0	0	9	91	3	#N/A		#N/A	1	#N/A
Structural Change and	3	0	100	0	0	0	4	#N/A	4	#N/A	3	#N/A
Economic Dynamics Studies in Economics	1	0	0	30	70	0	3	1			1	ECON
and Finance					70							
Studies in Higher Education	1	0	0	0	100	0	6	3			1	MGDEV&ED
Supply Chain Management: An	2	0	50	50	0	0	35	3	4		1	OPS & TECH
International Journal Systemic Practice and Action Research	2	0	0	100	0	0	13	2	4.5	2	2	ORG STUD
Systemica	0	0	0	0	10	90	6	#N/A		#N/A	1	#N/A
Systems Research and Behavioral Science	3	0	53	47	0	0	11	2	4		2	OR&MANSCI
Technological Forecasting and Social Change	3	0	100	0	0	0	14	3	4	1	2	SOC SCI
Technology Analysis and Strategic Management	2	0	0	100	0	0	38	2	5		2	STRAT
Technovation	2	0	0	100	0	0	41	2	5	1	3	INNOV
Telecommunications Policy	3	9	91	0	0	0	7	2	5		1	SECTOR
The Howard Journal of Criminal Justice	2	0	0	100	0	0	3	#N/A		#N/A	2	#N/A
The TQM Magazine	2	0	0	100	0	0	3	#N/A	4	#N/A	2	#N/A
Theory and Decision	2	0	0	100	0	0	9	2			2	OR&MANSCI
Theory Culture and Society	4	100	0	0	0	0	3	3		3	4	SOC SCI
Thunderbird International Business Review	1	0	0	0	100	0	8	2	5	1	1	IB&AREA
Time and Society	4	100	0	0	0	0	5	2			4	SOC SCI
Total Quality Management and Business Excellence	1	0	0	0	100	0	7	1			1	OPS & TECH
Tourism Analysis	1	0	0	0	100	0	4	2			1	TOUR-HOSP
Tourism and Hospitality	1	0	0	0	100	0	3	#N/A		#N/A	1	#N/A
Research			_	0.7			2					TOUR
Tourism and Hospitality: Planning and Development	2	0	5	95	0	0	3	2		2	4	TOUR-HOSP
Tourism Economics	1	0	0	0	100	0	7	2	4	1	1	TOUR-HOSP
Tourism Geographies	1	0	0	0	100	0	3	2			1	TOUR-HOSP
Tourism Management	2	0	0	100	0	0	42	3	5	2	2	TOUR-HOSP
Tourism Recreation Research	1	0	0	0	100	0	5	#N/A	4	#N/A	1	#N/A
Transfer: European Review of Labour and	3	0	100	0	0	0	3	#N/A		#N/A	1	#N/A

Research												
Transnational	4	97	0	3	0	0	7	2	5	1	2	IB&AREA
Corporations												
Transport Policy	1	0	0	33	67	0	4	#N/A	4	#N/A	3	#N/A
Transportation Research	3	0	100	0	0	0	11	3	4	3	1	SECTOR
Part A: Policy and												
Practice												
Transportation Research	3	0	100	0	0	0	5	4	4	3	2	SECTOR
Part B: Methodological												
Transportation Research	1	0	0	0	100	0	3	2	4	3	1	SECTOR
Part D: Transport and												
Environment												
Transportation Research	2	0	0	100	0	0	8	3	4	3	2	SECTOR
Part E: Logistics and												
Transportation Review	_	_			_			_	_	_	_	
Urban Studies	3	9	84	7	0	0	33	3	4	3	3	SOC SCI
Utilities Policy	1	0	0	0	100	0	10	#N/A		#N/A	1	#N/A
Venture Capital: An	4	45	0	14	41	0	8	2	4.5		2	ENT-SMBUS
International Journal of												
Entrepreneurial Finance												
Voluntas: International	2	0	0	100	0	0	7	2		2	2	SECTOR
Journal of Voluntary and												
Non-Profit Organisation												
Women in Management	1	0	0	0	100	0	16	1	4	1	1	GEN MAN
Review												
Work and Occupations	4	100	0	0	0	0	5	3	7	3	3	HRM&EMP
Work and Stress	3	25	42	25	8	0	13	3	6	2	2	PSYCH
Work, Employment and	3	0	73	27	0	0	103	4	5	3	3	HRM&EMP
Society												
World Development	3	0	100	0	0	0	17	3	6	3	2	SOC SCI
World Economy	1	0	49	0	51	0	25	2	5	2	1	ECON
World Review of	1	0	0	0	73	27	5	1			1	ENT-SMBUS
Entrepreneurship,												
Management and												
Sustainable												
Development												

