

HINARI/AGORA Study Results with 2008 Data

Sheri V. T. Ross

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The following report is an update to the results presented in the 2008 dissertation by Sheri V. T. Ross titled *The Scholarly Use of Journals Offered Through the Health Internetwork Access to Research Initiative (HINARI) and Access to Global Online Research in Agricultural (AGORA) Programs as Suggested by the Journal-Citing Patterns of Authors in the Least-Developed Nations*. The original dissertation is archived at <http://etd.lib.fsu.edu/theses/available/etd-08082008-171628/>.

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1.0 Africa

Table 1. Average Percent Change in Citations to HINARI Made by Eligible African Researchers

	HINARI Average 2001- 2002	HINARI Average 2003- 2008	HINARI Change	HINARI Average 2001- 2008	Comparison Average 2001-2008	HINARI- Comparison Difference
Eastern Africa	6.8435	13.1926	6.3492	15.1612	14.3054	0.8559
Middle Africa	8.3091	17.4452	9.1361	13.4131	1.9194	11.4937
Northern Africa	9.2727	22.2321	12.9593	18.9922	13.4996	5.4926
Southern Africa	52.4805	6.0355	-46.4450	17.6468	25.4394	-7.7926
Western Africa	-0.4830	18.3448	18.8279	13.6379	11.5232	2.1147

Table 1 describes sub-regional variation with respect to the average percent change in frequency before and after the initiation of the program. Four sub-regions demonstrate positive change and one demonstrates negative change. For the entire period of the study, four sub-regions reveal a greater average annual percent change in frequency to the HINARI set than to the Comparison set and one reveals a greater average change to the Comparison set than to the HINARI set.

Table 2. Average Percent Change in Citations to AGORA Made by Eligible African Researchers

	AGORA Average 2001- 2003	AGORA Average 2004- 2008	AGORA Change	AGORA Average 2001- 2008	Comparison Average 2001-2008	AGORA- Comparison Difference
Eastern Africa	12.1319	10.5989	-1.5331	11.1738	8.1942	2.9796
Middle Africa	15.8374	15.8271	-0.0103	15.8310	14.3054	1.5256
Northern Africa	4.7015	28.2478	23.5462	19.4179	13.4996	5.9183
Southern Africa	7.0644	18.7114	11.6470	14.3438	25.4394	-11.0957
Western Africa	10.1689	13.7374	3.5686	12.3992	11.5232	0.8760

Table 2 demonstrates sub-regional variation with respect to the average percent change in frequency before and after the initiation of the AGORA program, with three sub-regions demonstrating positive change and two demonstrating negative change. For the entire period of the study, four sub-regions reveal a greater average annual percent change in frequency to the AGORA set than to the Comparison set and one reveals a greater average change to the Comparison set than to the AGORA set.

Table 3. Results Summary by African Sub-regions

	Eastern Africa	Middle Africa	Northern Africa	Southern Africa	Western Africa
Q1: Has the frequency of citations to the HINARI set increased each year?	N	N	N	N	N
Q2: Has the frequency of citations to the AGORA set increased each year?	N	N	Y	N	N
Q3: Has the frequency of citations to the Comparison set increased each year?	N	N	N	N	N
Q4: Has the percent change in frequency of citations to the HINARI set increased each year?	N	N	N	N	N
Q5: Has the percent change in frequency of citations to the AGORA set increased each year?	N	N	N	N	N
Q6: Has the percent change in frequency of citations to the Comparison set increased each year?	N	N	N	N	N
Q7: Is the average percent change in frequency of citations to the HINARI set from 2003-2008 greater than that from 2000-2002?	Y	Y	Y	N	Y
Q8: Is average percent change in frequency of citations to the HINARI 2000-2008 greater than that of the Comparison set?	Y	Y	Y	N	Y
Q9: Is average percent change in frequency of citations to the AGORA set from 2004-2008 greater than that from 2000-2003?	N	N	Y	Y	Y
Q10: Is average percent change in citations to the AGORA 2000-2008 greater than that to the Comparison set?	Y	Y	Y	N	Y
Q11: Is there regional variation with respect to the frequency of and percent change in frequency of citations to the HINARI set?	Y	Y	Y	Y	Y

	Eastern Africa	Middle Africa	Northern Africa	Southern Africa	Western Africa
Q12: Is there regional variation with respect to the frequency of and percent change in frequency of citations to the AGORA set?	Y	Y	Y	Y	Y

1.1 Eastern Africa

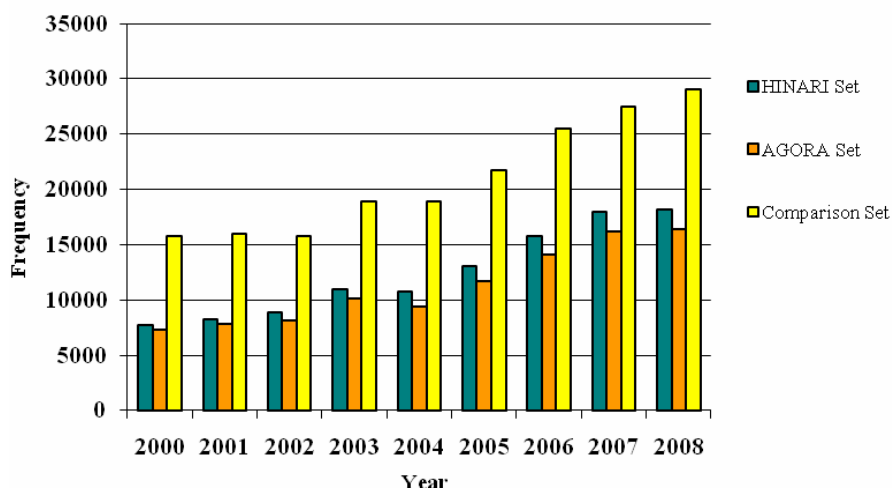


Figure 1. Frequency of Citations Made by Eligible Eastern African Researchers

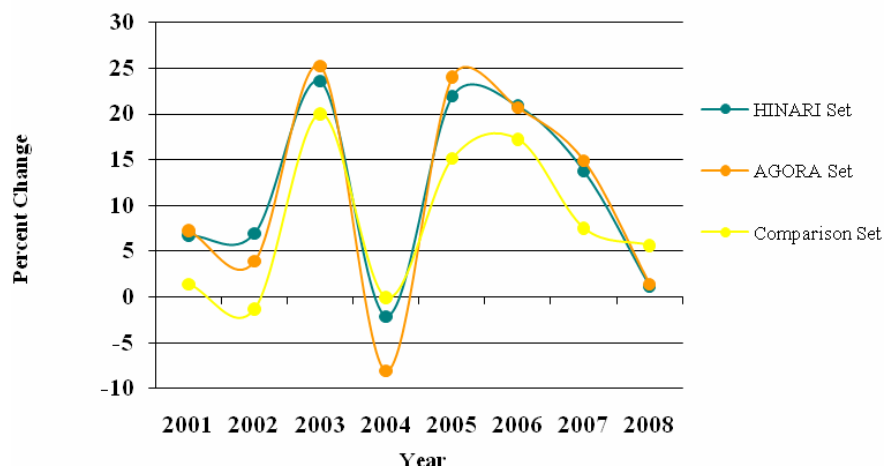


Figure 2. Percent Change in Frequency of Citations Made by Eligible Eastern African Researchers

Table 4. Average Percent Change in Frequency of Citations Made by Eligible Eastern African Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
6.3492	3.4112	-1.5331	2.9796

1.1.1 Burundi

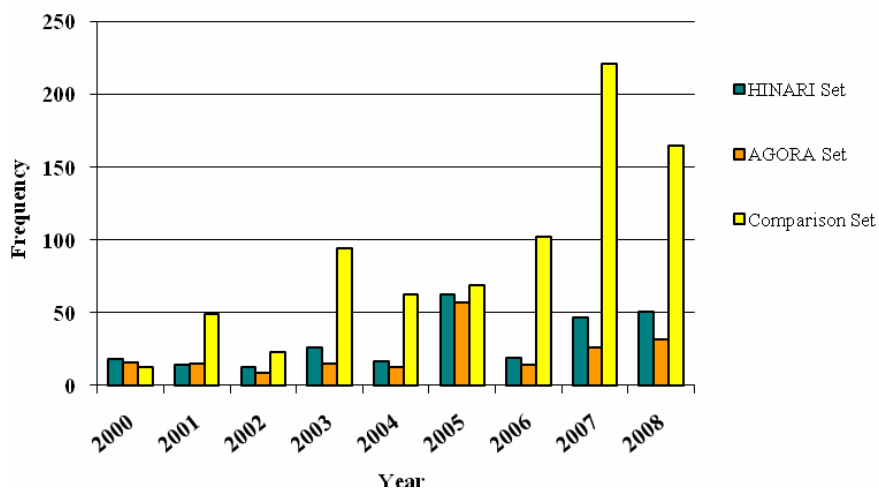


Figure 3. Frequency of Citations Made by Burundi Researchers

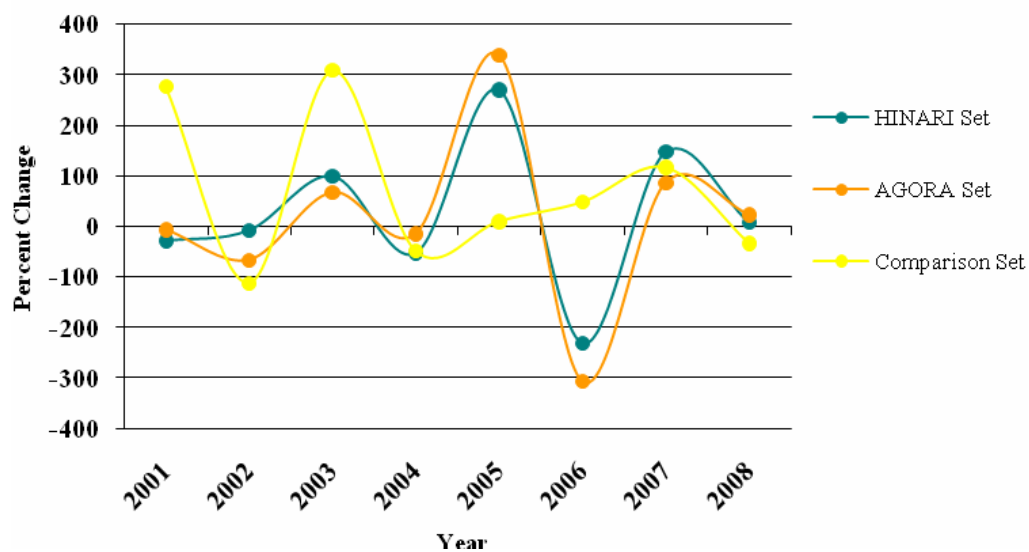


Figure 4. Percent Change in Frequency of Citations Made by Burundi Researchers

Table 5. Average Percent Change in Frequency of Citations Made by Burundi Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
58.4564	-44.7203	27.1673	-55.6734

1.1.2 Comoros

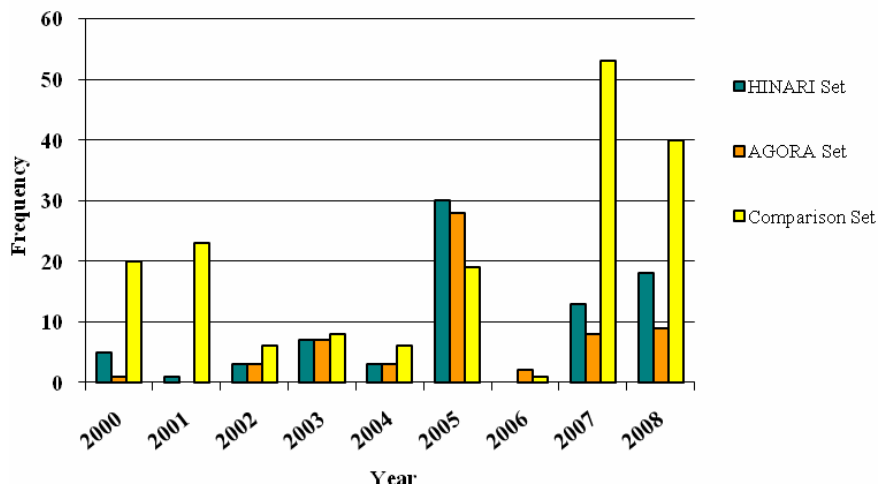


Figure 5. Frequency of Citations Made by Comoros Researchers

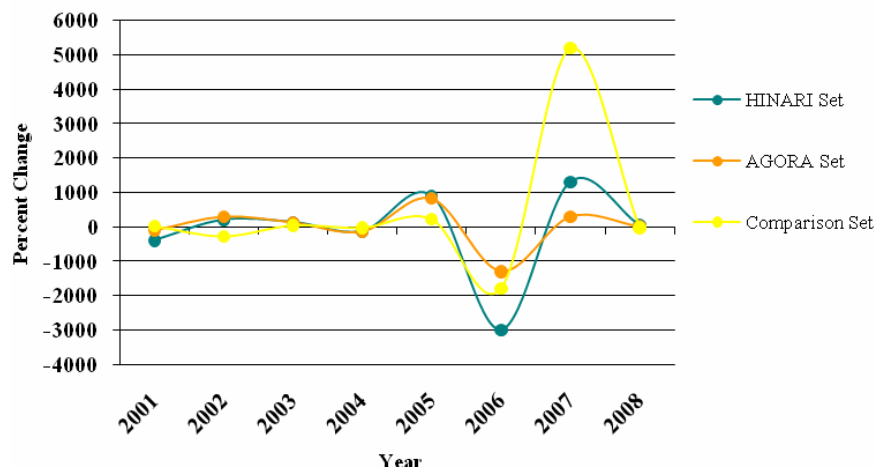


Figure 7. Percent Change in Frequency of Citations Made by Comoros Researchers

Table 6. Average Percent Change in Frequency of Citations Made by Comoros Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
-26.9231	-534.6715	-168.6111	-408.7500

1.1.3 Djibouti

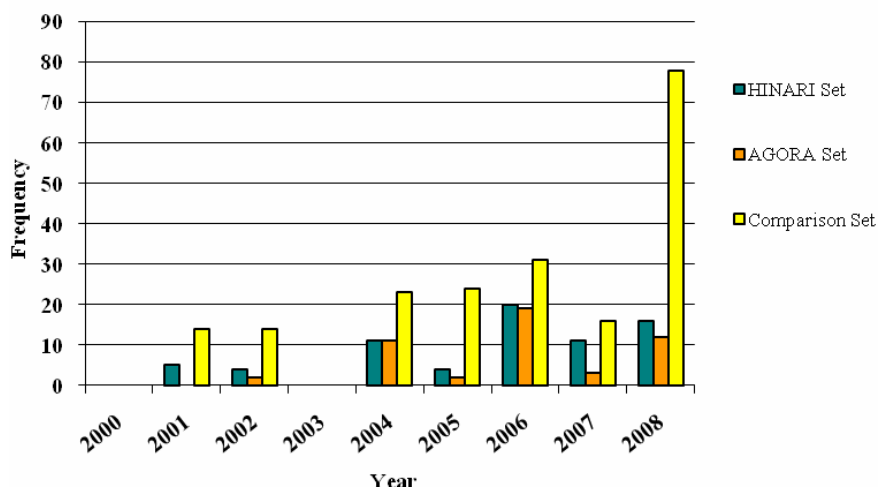


Figure 7. Frequency of Citations Made by Djibouti Researchers

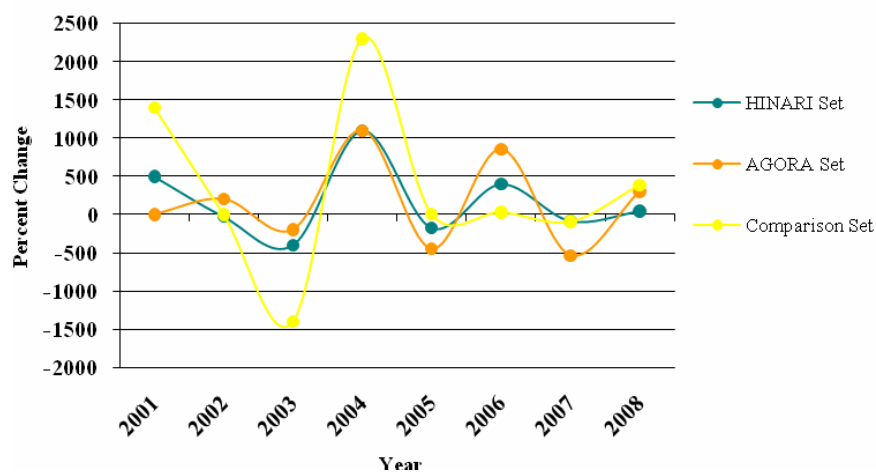


Figure 8. Percent Change in Frequency of Citations Made by Djibouti Researchers

Table 7. Average Percent Change in Frequency of Citations Made by Djibouti Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
-89.3939	-157.9535	253.3333	-170.0747

1.1.4 Eritrea

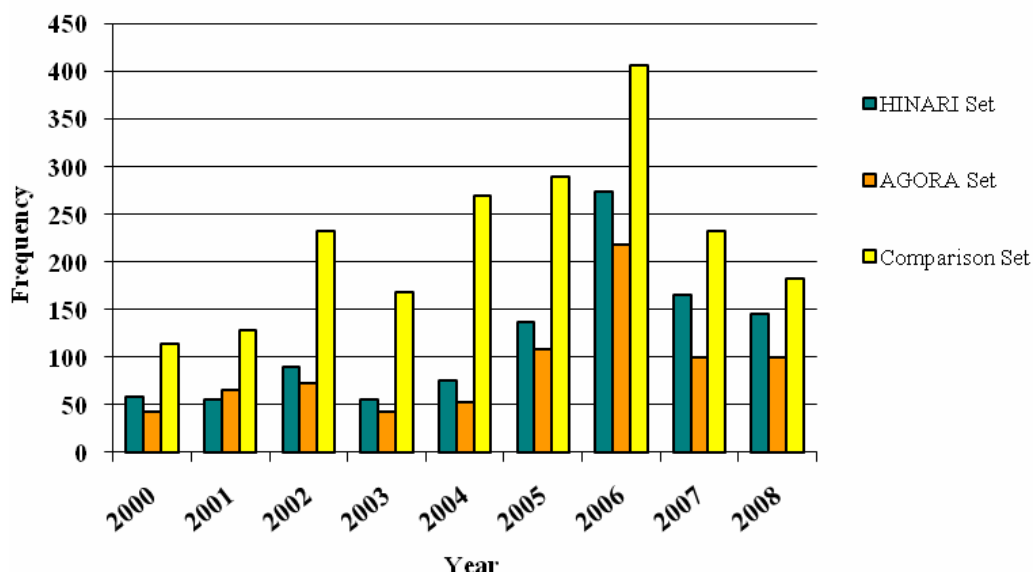


Figure 9. Frequency of Citations Made by Eritrea Researchers

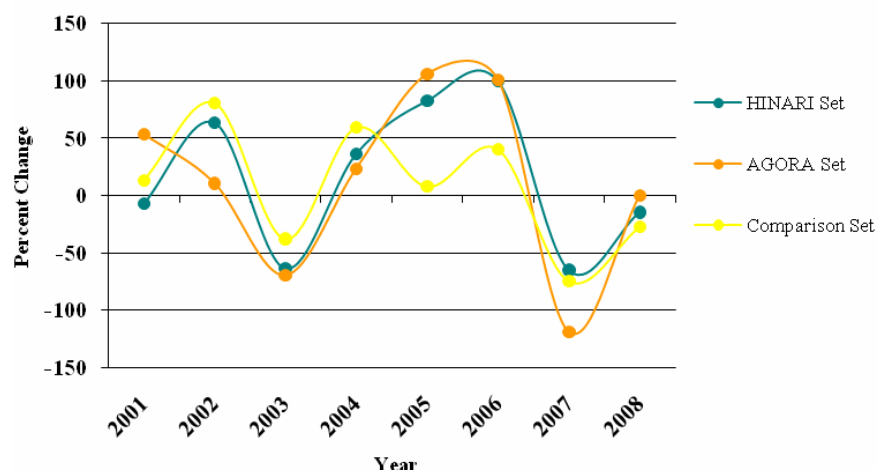


Figure 10. Percent Change in Frequency of Citations Made by Eritrea Researchers

Table 8. Average Percent Change in Frequency of Citations Made by Eritrea Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
-15.5400	8.8730	24.0577	5.4912

1.1.5 Ethiopia

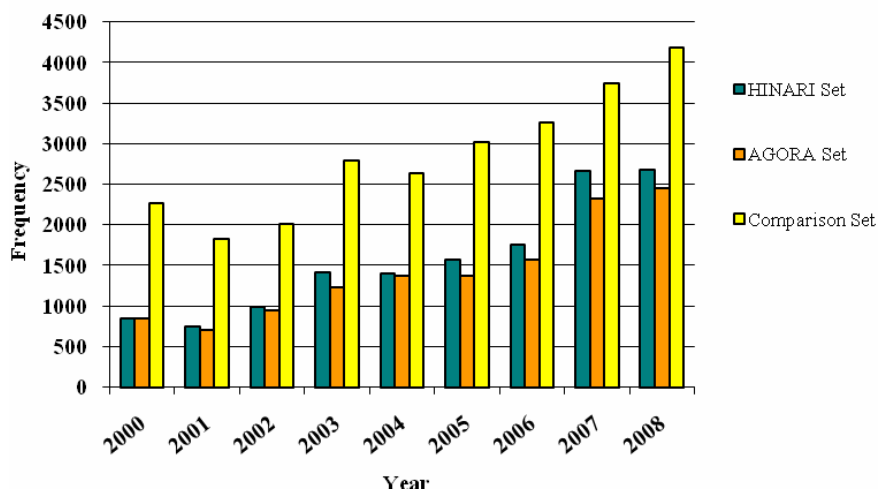


Figure 11. Frequency of Citations Made by Ethiopia Researchers

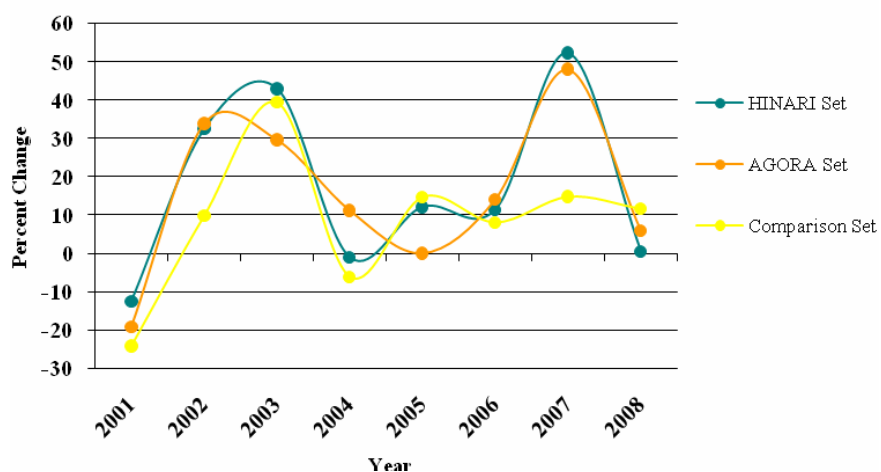


Figure 12. Percent Change in Frequency of Citations Made by Ethiopia Researchers

Table 9. Average Percent Change in Frequency of Citations Made by Ethiopia Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
9.7344	8.7674	1.0301	6.9377

1.1.5 Kenya

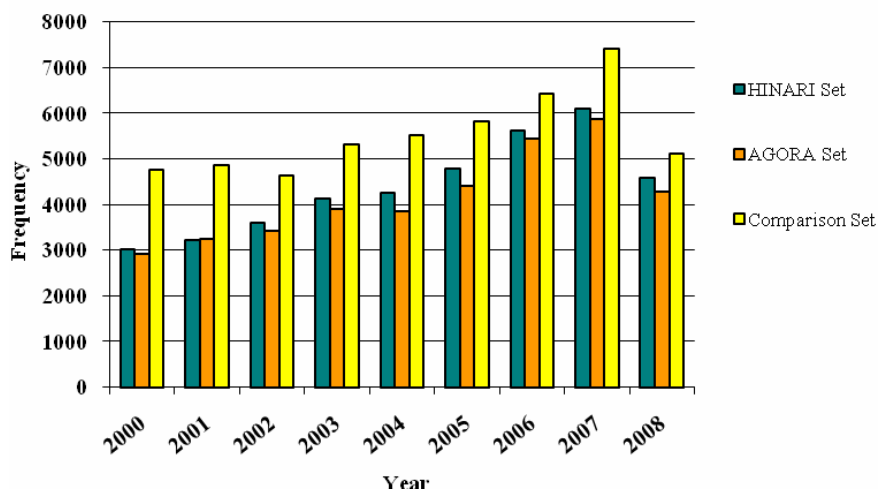


Figure 13. Frequency of Citations Made by Kenya Researchers

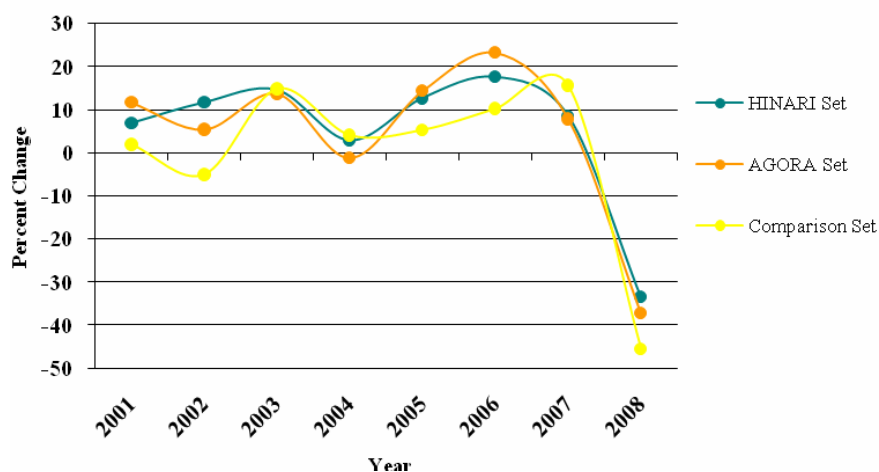


Figure 15. Percent Change in Frequency of Citations Made by Kenya Researchers

Table 10. Average Percent Change in Frequency of Citations Made by Kenya Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
-5.4909	4.9905	-8.8711	4.5682

1.1.6 Madagascar

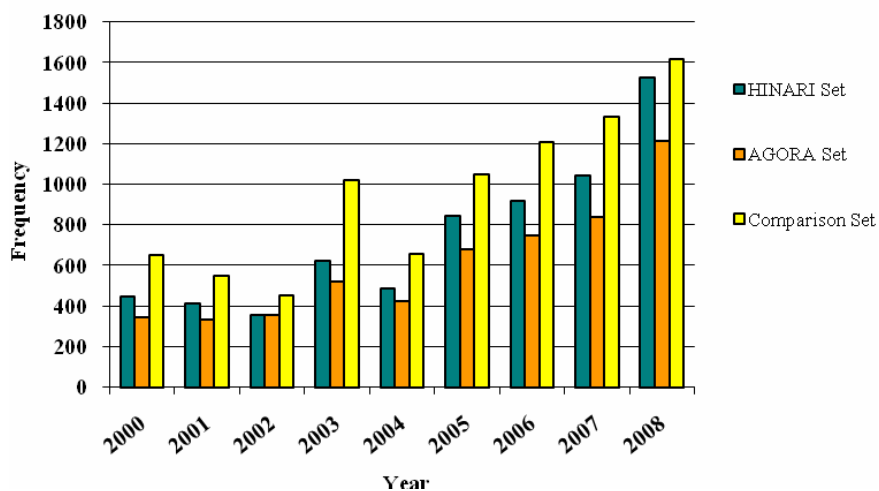


Figure 15. Frequency of Citations Made by Madagascar Researchers

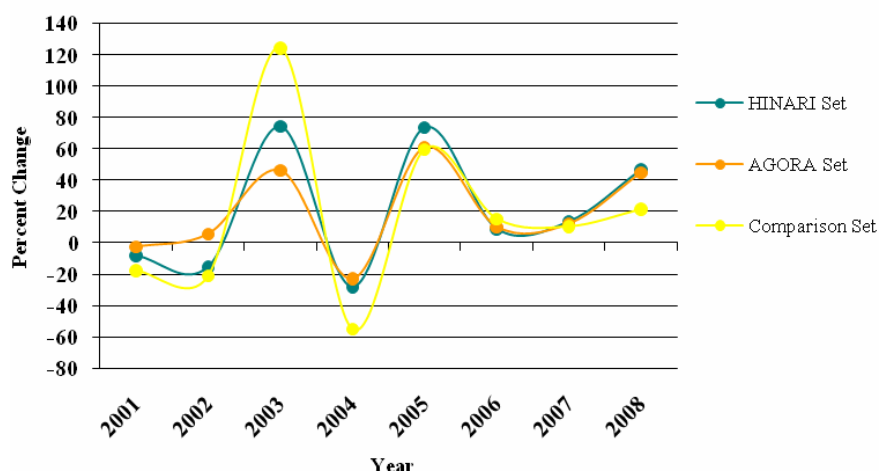


Figure 16. Percent Change in Frequency of Citations Made by Madagascar Researchers

Table 11. Average Percent Change in Frequency of Citations Made by Madagascar Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
43.2643	3.5205	4.6089	2.2197

1.1.7 Malawi

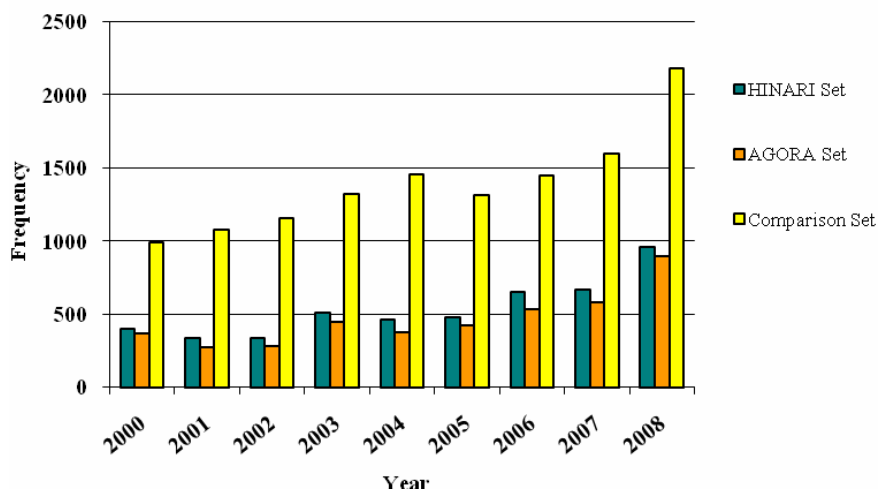


Figure 17. Frequency of Citations Made by Malawi Researchers

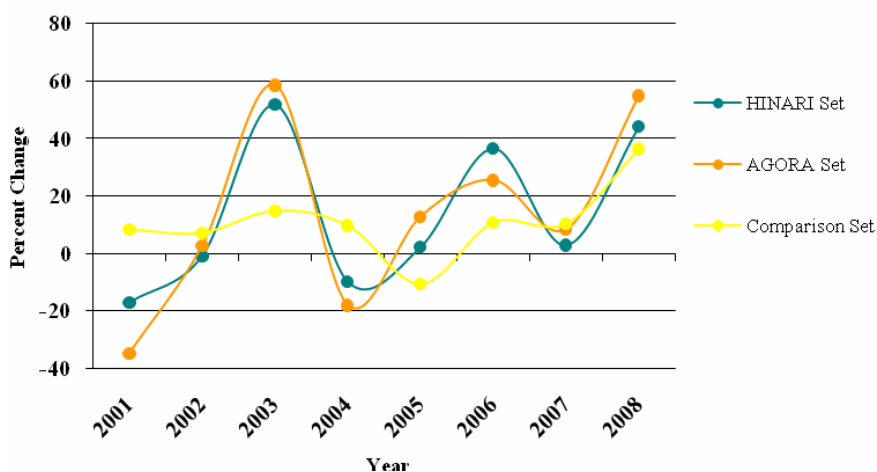


Figure 18. Percent Change in Frequency of Citations Made by Malawi Researchers

Table 12. Average Percent Change in Frequency of Citations Made by Malawi Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
30.2289	2.8637	7.8779	2.8957

1.1.8 Mozambique

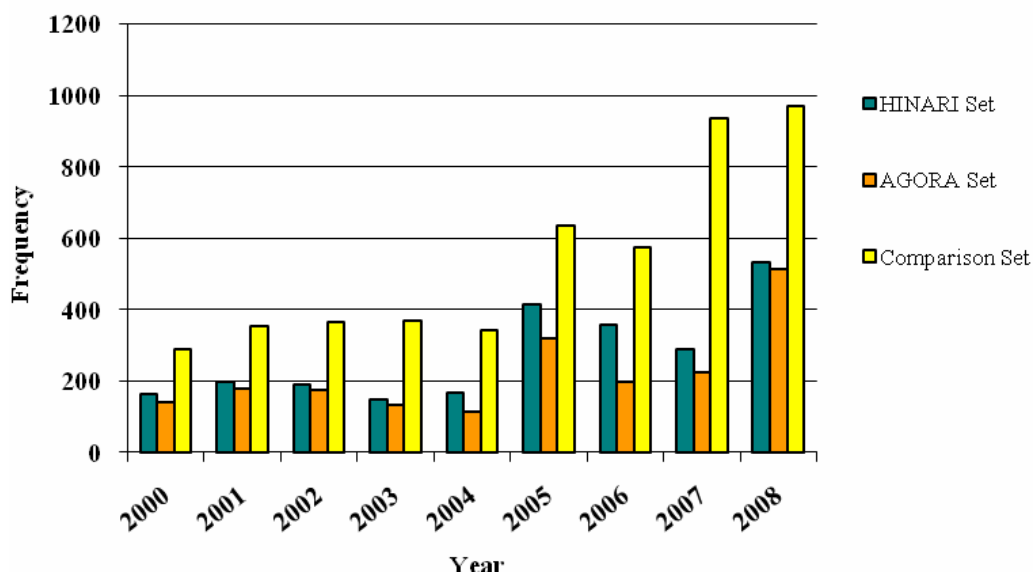


Figure 19. Frequency of Citations Made by Mozambique Researchers

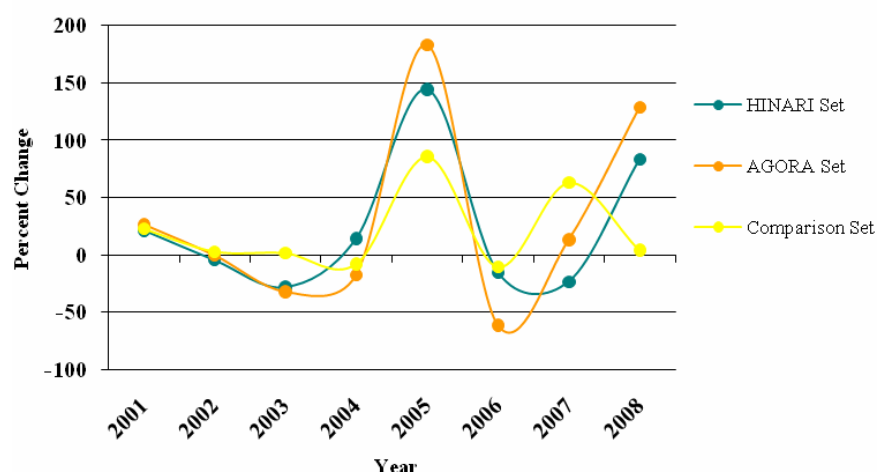


Figure 20. Percent Change in Frequency of Citations Made by Mozambique Researchers

Table 13. Average Percent Change in Frequency of Citations Made by Mozambique Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
20.8354	3.8508	51.2715	9.8098

1.1.9 Rwanda

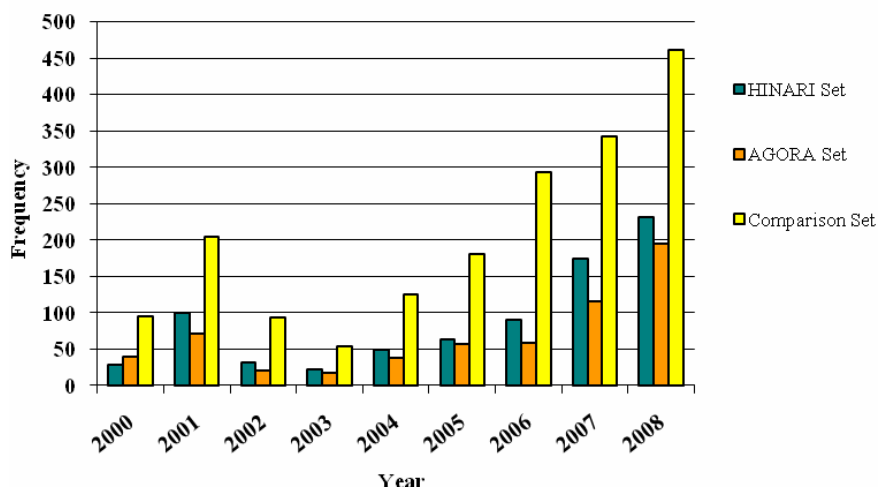


Figure 21. Frequency of Citations Made by Rwanda Researchers

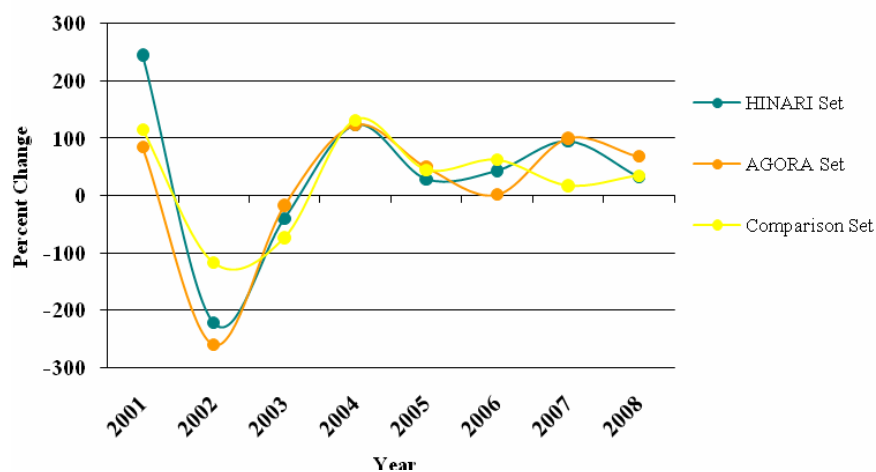


Figure 22. Percent Change in Frequency of Citations Made by Rwanda Researchers

Table 14. Average Percent Change in Frequency of Citations Made by Rwanda Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
35.4917	11.0472	133.0213	-7.9006

1.1.10 Somalia

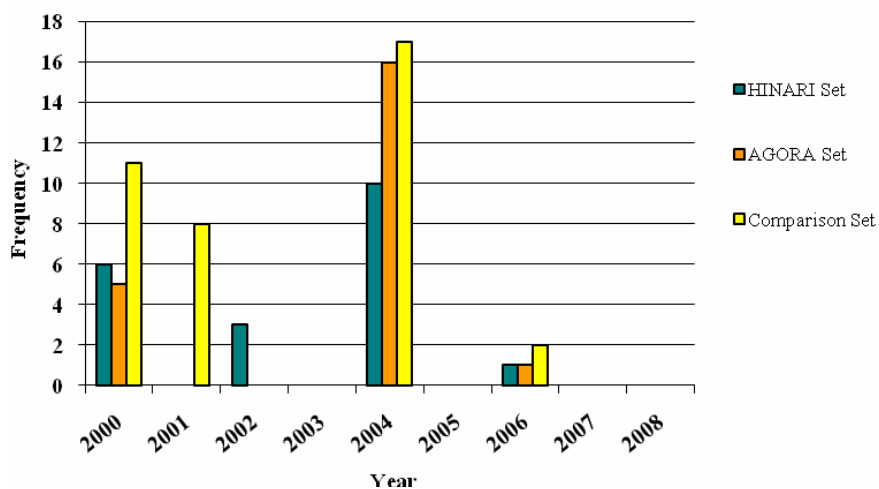


Figure 23. Frequency of Citations Made by Somalia Researchers

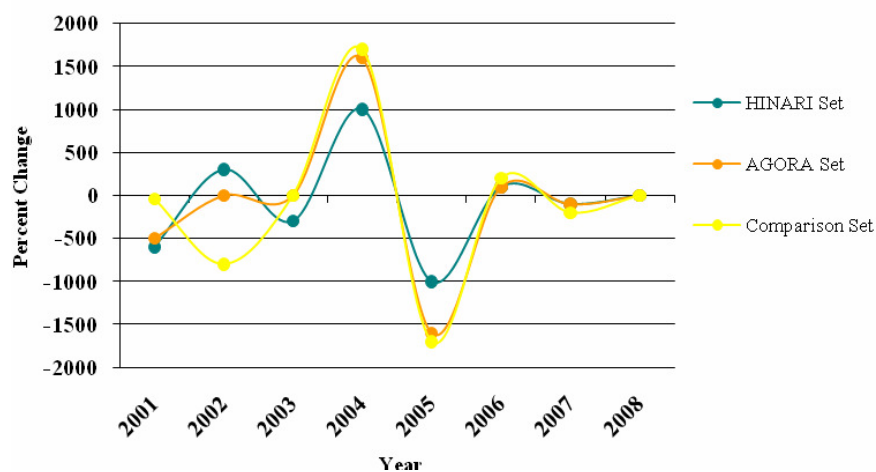


Figure 24. Percent Change in Frequency of Citations Made by Somalia Researchers

Table 11. Average Percent Change in Frequency of Citations Made by Somalia Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
100.0000	29.6875	166.6667	42.1875

1.1.11 Tanzania

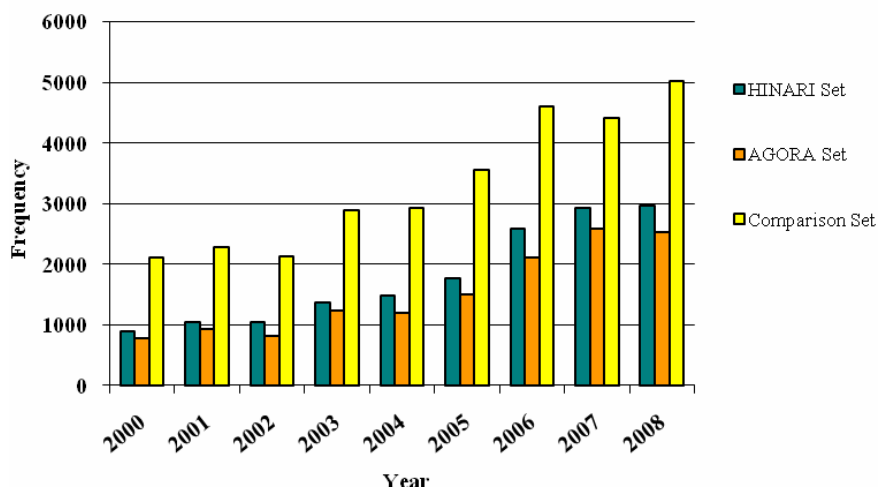


Figure 25. Frequency of Citations Made by Tanzania Researchers

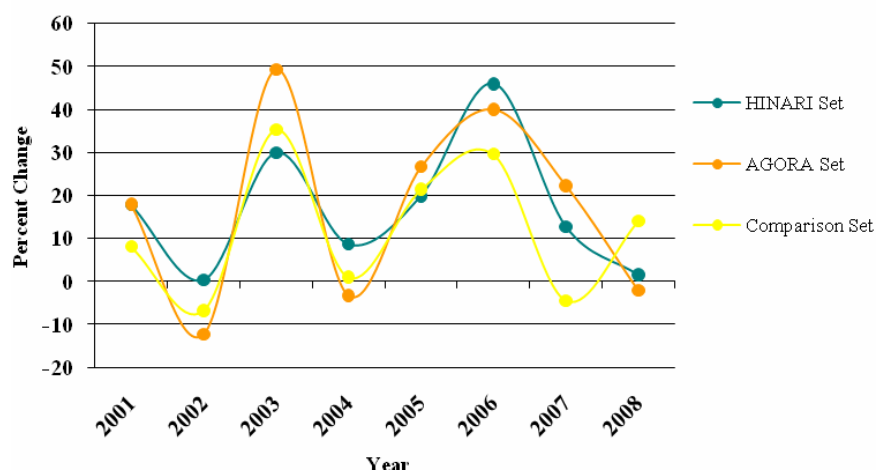


Figure 26. Percent Change in Frequency of Citations Made by Tanzania Researchers

Table 15. Average Percent Change in Frequency of Citations Made by Tanzania Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
10.6924	4.7935	-1.6192	5.0132

1.1.12 Uganda

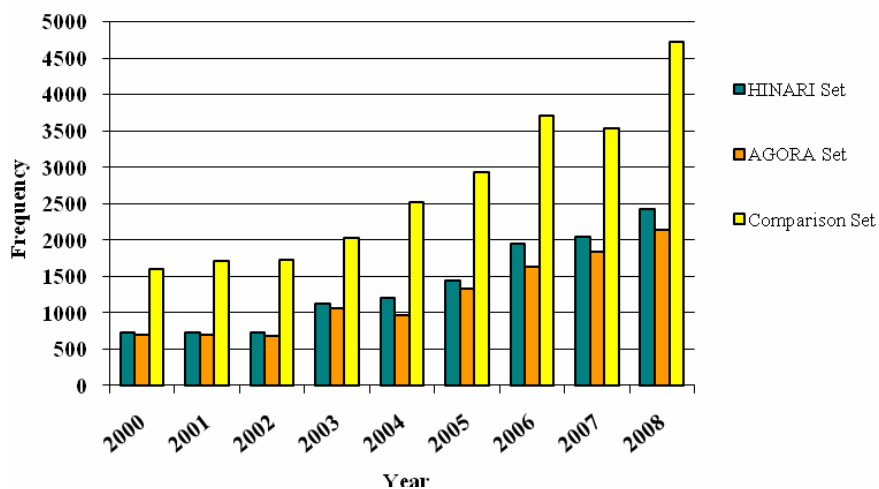


Figure 27. Frequency of Citations Made by Uganda Researchers

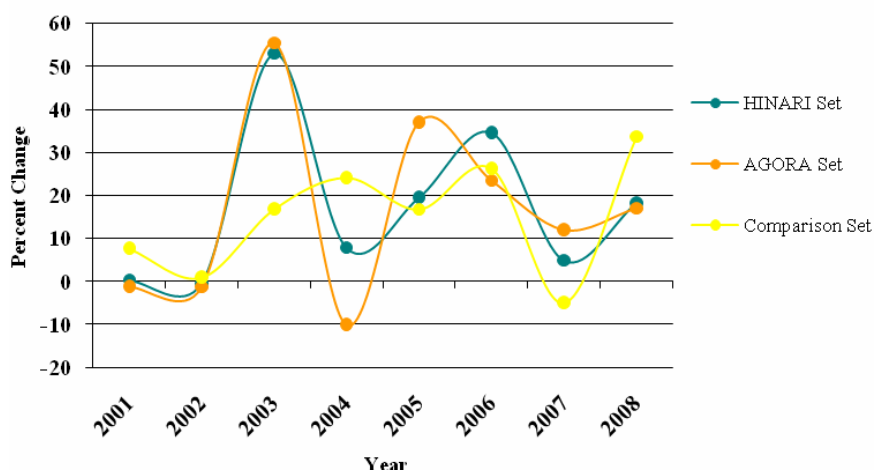


Figure 28. Percent Change in Frequency of Citations Made by Uganda Researchers

Table 17. Average Percent Change in Frequency of Citations Made by Uganda Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
23.1071	2.0574	-1.7180	1.3681

1.1.13 Zambia

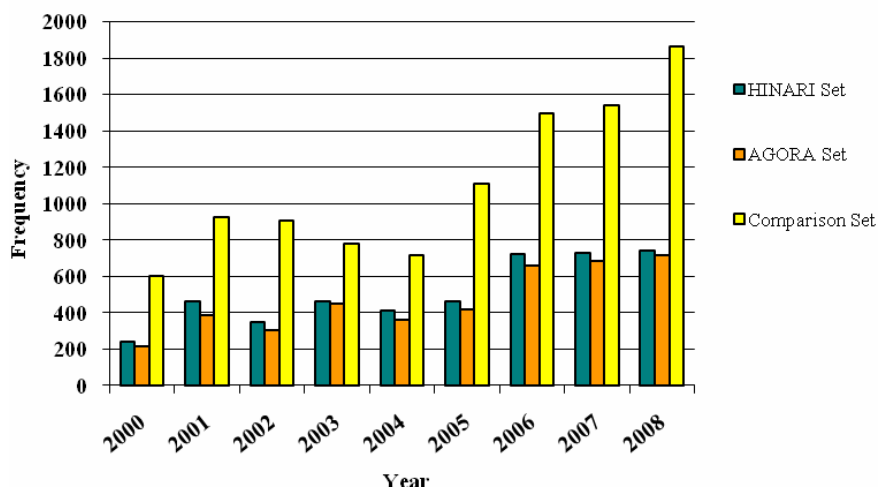


Figure 29. Frequency of Citations Made by Zambia Researchers

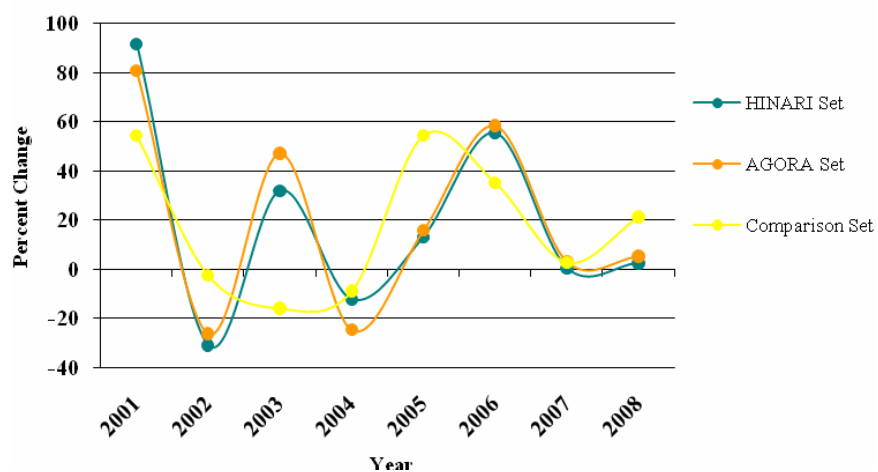


Figure 30. Percent Change in Frequency of Citations Made by Zambia Researchers

Table 18. Average Percent Change in Frequency of Citations Made by Zambia Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
-15.1576	1.3454	-22.2956	2.3841

1.1.14 Zimbabwe

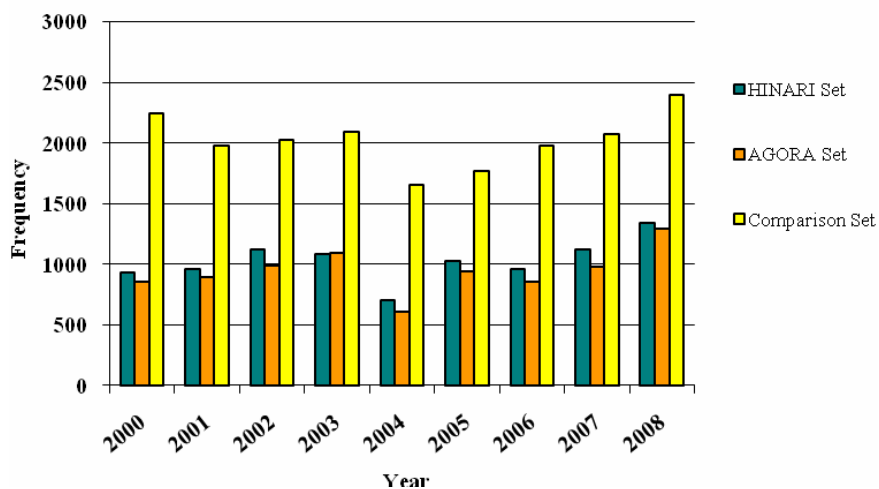


Figure 31. Frequency of Citations Made by Zimbabwe Researchers

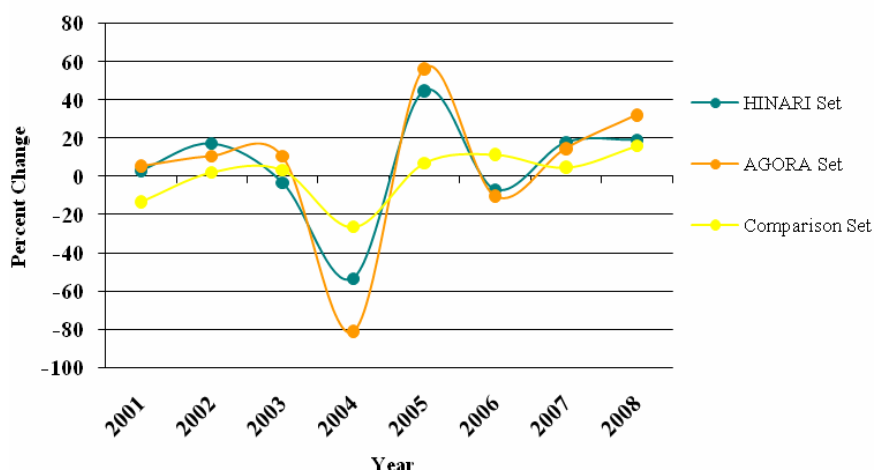


Figure 33. Percent Change in Frequency of Citations Made by Zimbabwe Researchers

Table 19. Average Percent Change in Frequency of Citations Made by Zimbabwe Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
-7.0106	4.0826	-6.4983	4.1073

1.2 Middle Africa

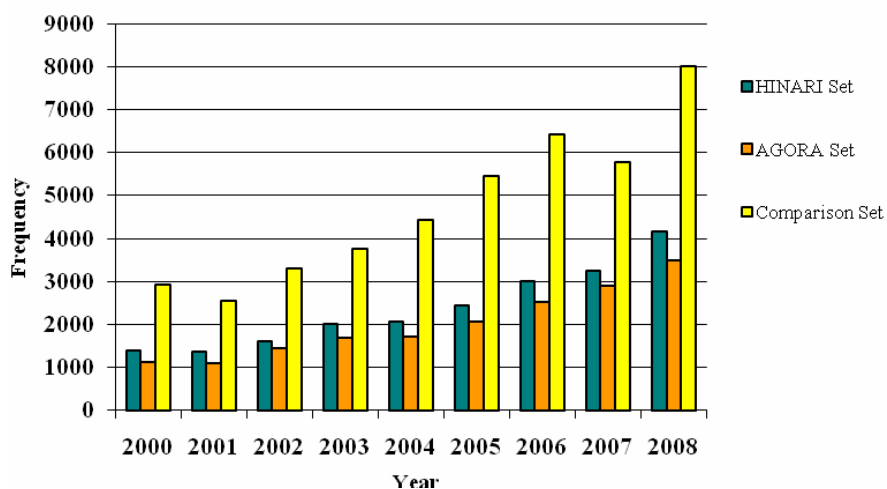


Figure 33. Frequency of Citations Made by Eligible Middle African Researchersⁱ



Figure 34. Percent Change in Frequency of Citations Made by Eligible Middle African Researchers

Table 20. Average Percent Change in Frequency of Citations Made by Eligible Middle African Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
9.1361	0.8559	-0.0103	1.5256

1.2.1 Angola

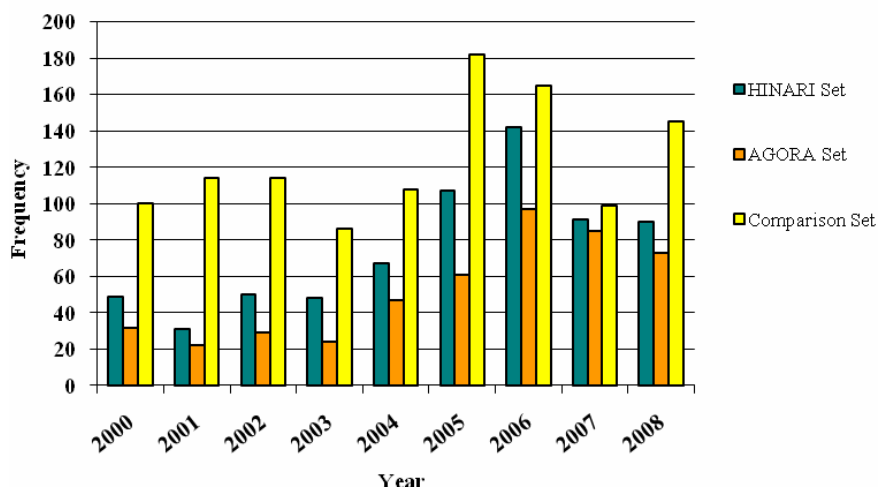


Figure 35. Frequency of Citations Made by Angola Researchers

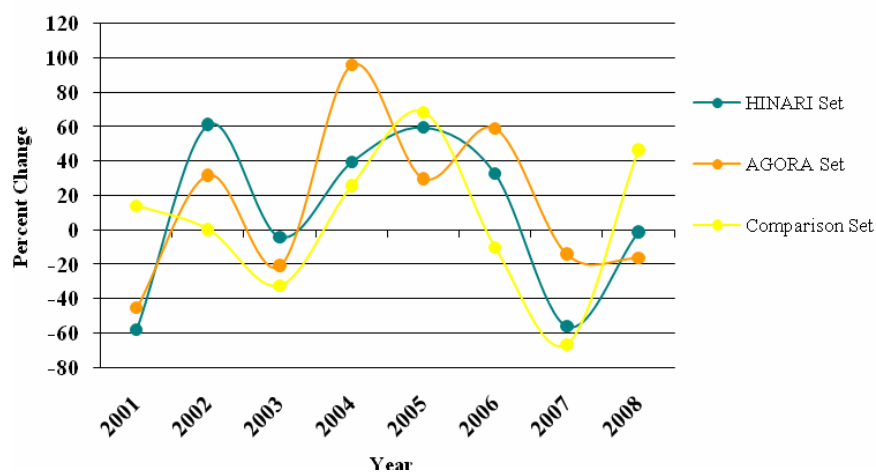


Figure 36. Percent Change in Frequency of Citations Made by Angola Researchers

Table 21 Average Percent Change in Frequency of Citations Made by Angola Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
10.1660	9.4414	42.3061	15.1554

1.2.2 Cameroon

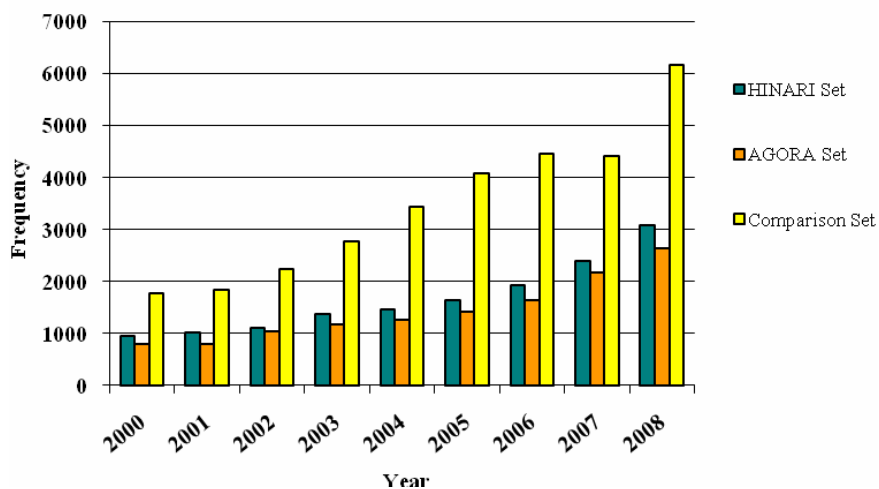


Figure 37. Frequency of Citations Made by Cameroon Researchers

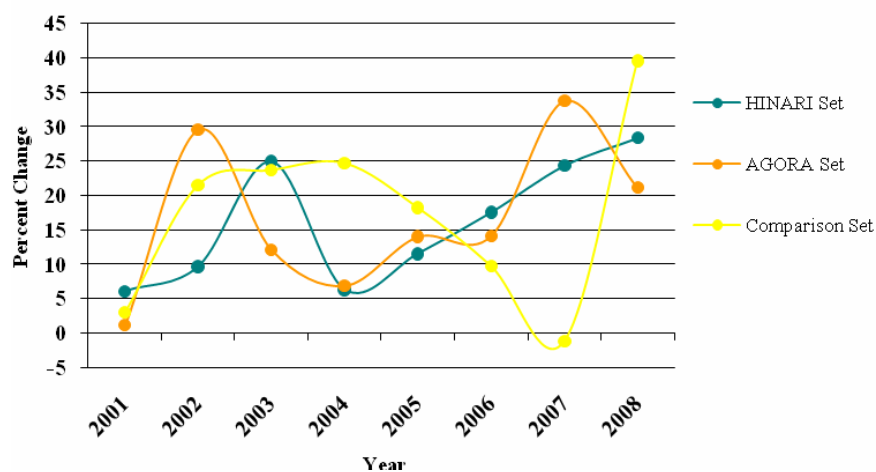


Figure 38. Percent Change in Frequency of Citations Made by Cameroon Researchers

Table 22. Average Percent Change in Frequency of Citations Made by Cameroon Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
10.9445	-1.3046	3.7176	-0.7927

1.2.3 Central African Republic

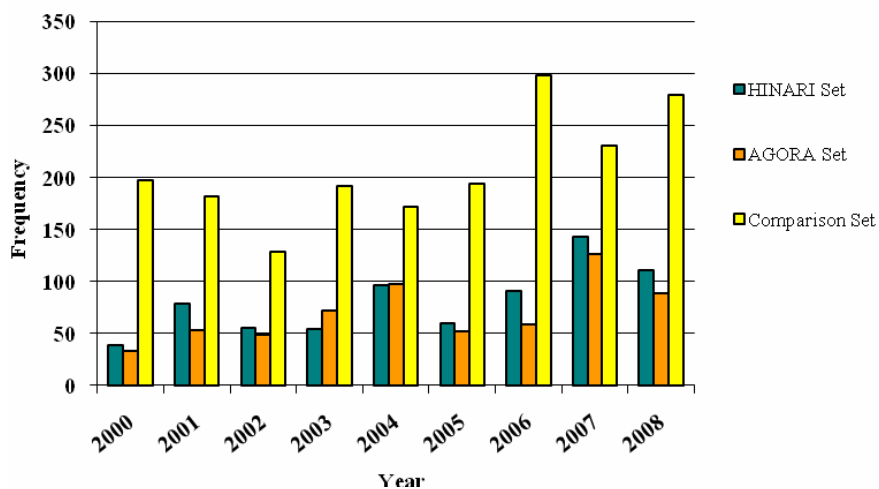


Figure 39. Frequency of Citations Made by Central African Republic Researchers

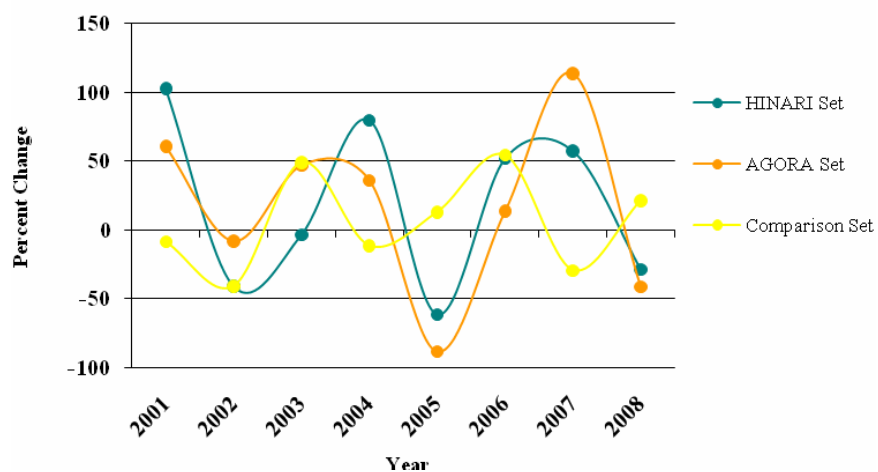


Figure 40. Percent Change in Frequency of Citations Made by Central African Republic Researchers

Table 23. Average Percent Change in Frequency of Citations Made by Central African Republic Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
-15.0397	13.7138	-26.5077	10.8071

1.2.4 Chad

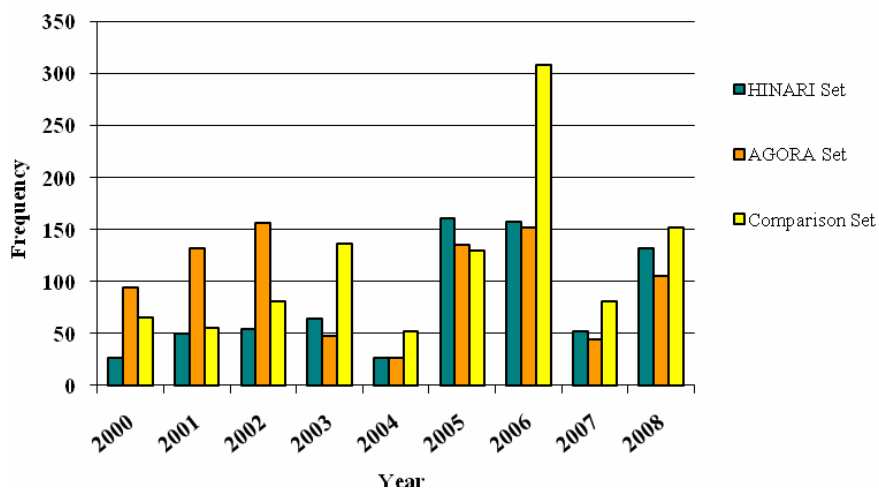


Figure 41. Frequency of Citations Made by Chad Researchers

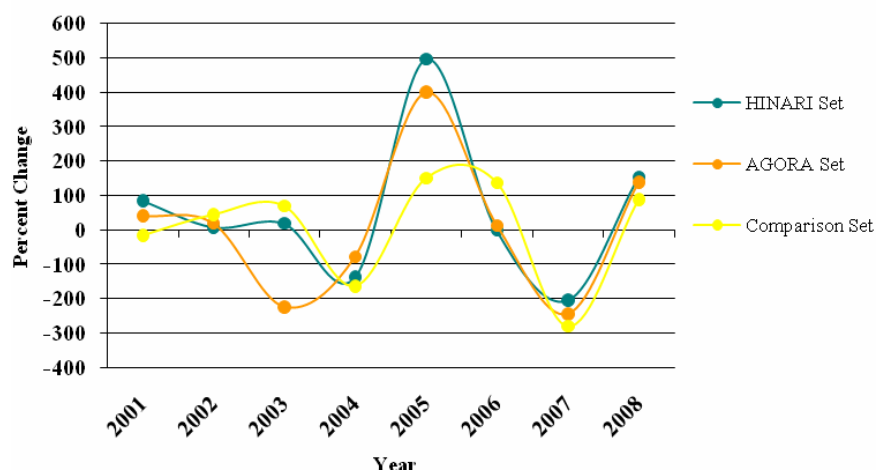


Figure 43. Percent Change in Frequency of Citations Made by Chad Researchers

Table 24. Average Percent Change in Frequency of Citations Made by Chad Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
7.7206	48.8110	101.0635	4.1285

1.2.5 Congo

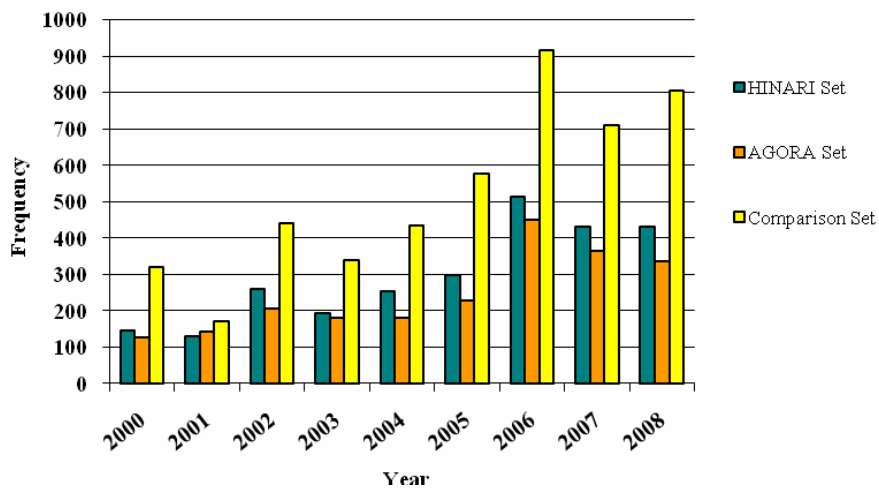


Figure 43. Frequency of Citations Made by Congo Researchers

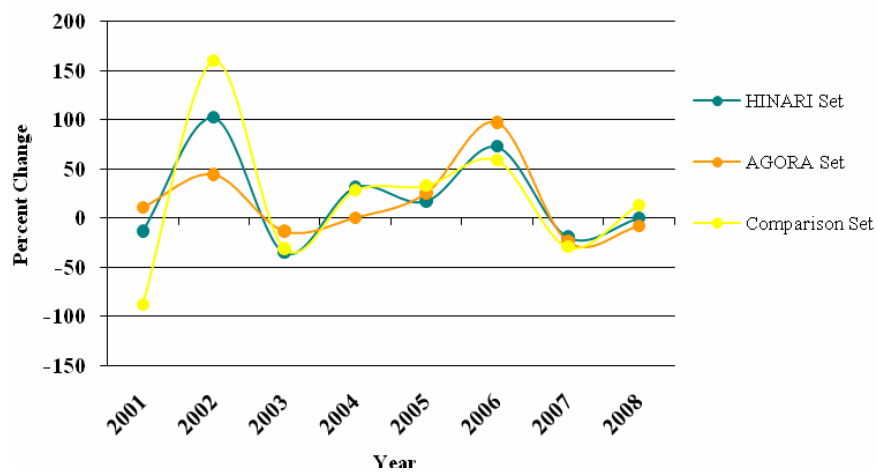


Figure 44. Percent Change in Frequency of Citations Made by Congo Researchers

Table 25. Average Percent Change in Frequency of Citations Made by Congo Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
-33.3567	1.3893	4.2325	-1.5068

1.2.6 Democratic Republic of the Congo

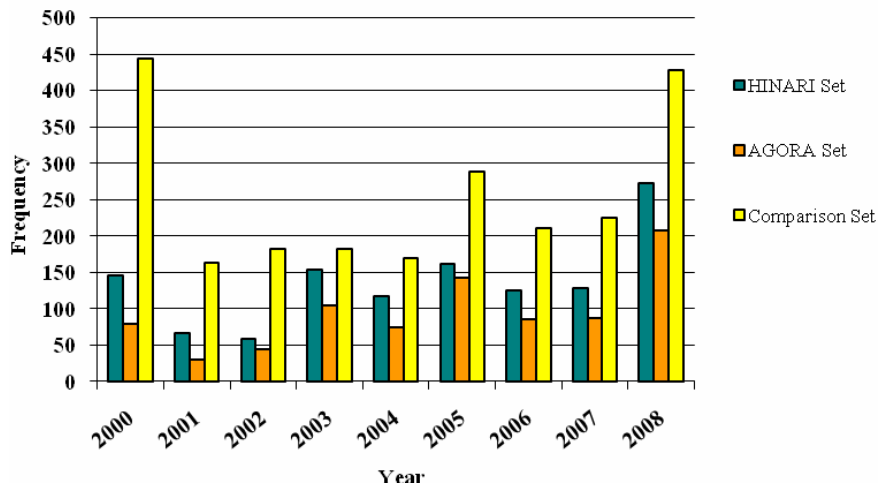


Figure 45. Frequency of Citations Made by Democratic Republic of the Congo Researchers

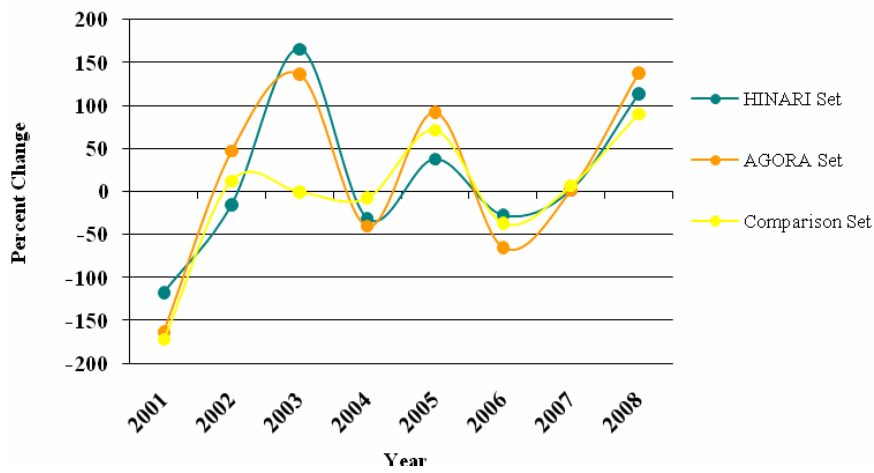


Figure 46. Percent Change in Frequency of Citations Made by Democratic Republic of the Congo Researchers

Table 26 Average Percent Change in Frequency of Citations Made by Democratic Republic of the Congo Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
109.8123	20.3289	18.5001	22.8117

1.2.7 Equatorial Guinea

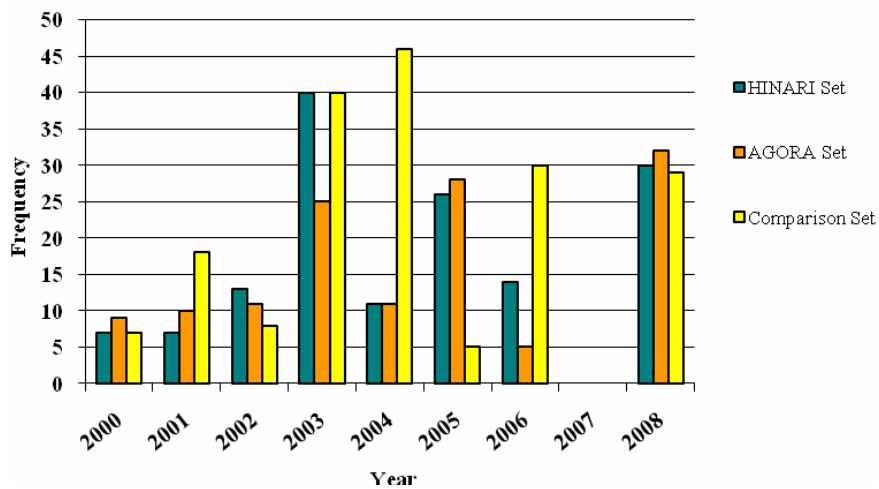


Figure 47. Frequency of Citations Made by Equatorial Guinea Researchers

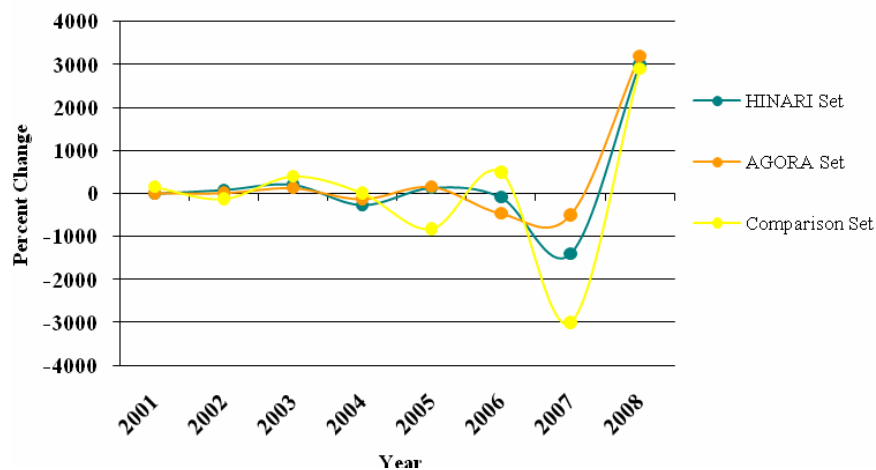


Figure 48. Percent Change in Frequency of Citations Made by Equatorial Guinea Researchers

Table 27. Average Percent Change in Frequency of Citations Made by Equatorial Guinea Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference
222.9271	206.6596	403.9933	298.5642

1.2.8 Sao Tome and Principe

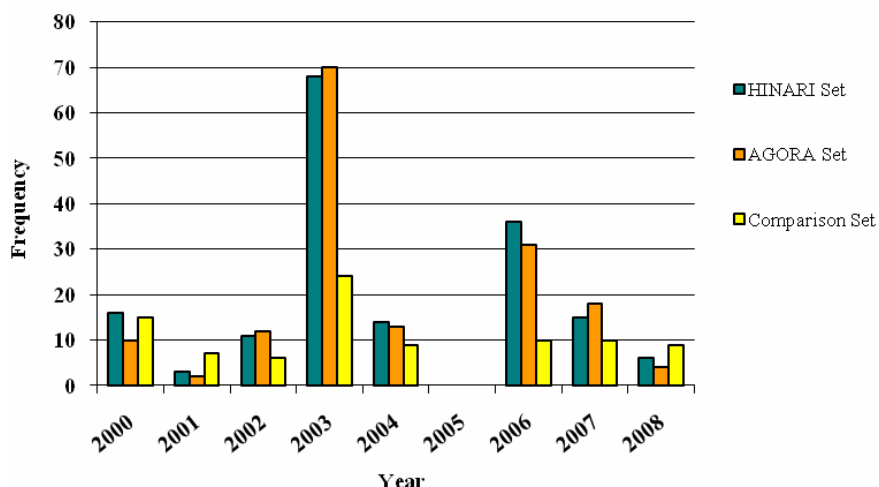


Figure 49. Frequency of Citations Made by Sao Tome and Principe Researchers

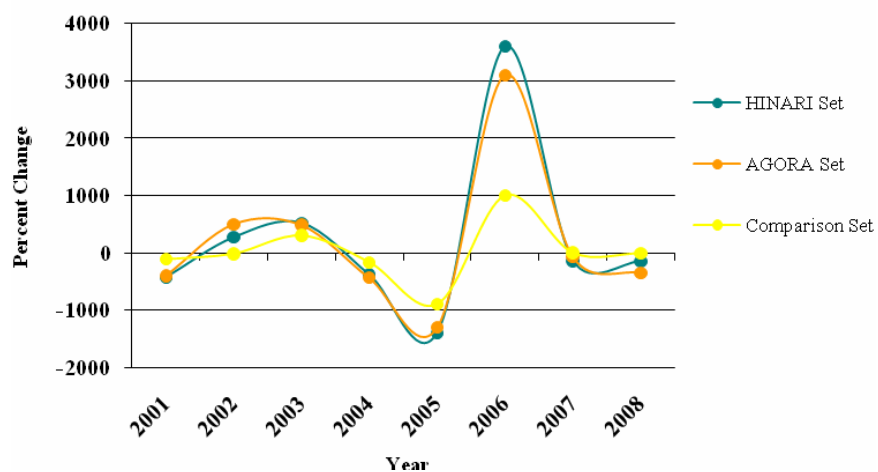


Figure 50. Percent Change in Frequency of Citations Made by Sao Tome and Principe Researchers

Table 28. Average Percent Change in Frequency of Citations Made by Sao Tome and Principe Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
423.7446	223.0664	-6.5812	178.9225

1.3 Northern Africa

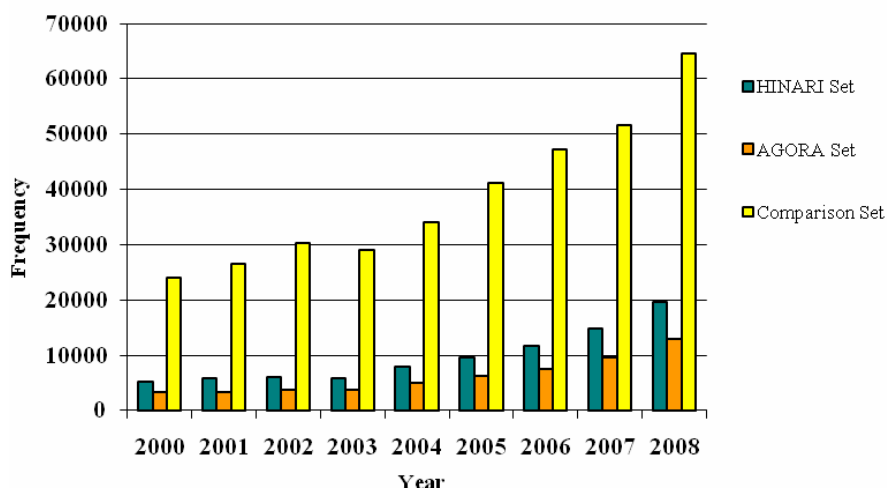


Figure 51. Frequency of Citations Made by Eligible Northern Africa Researchers

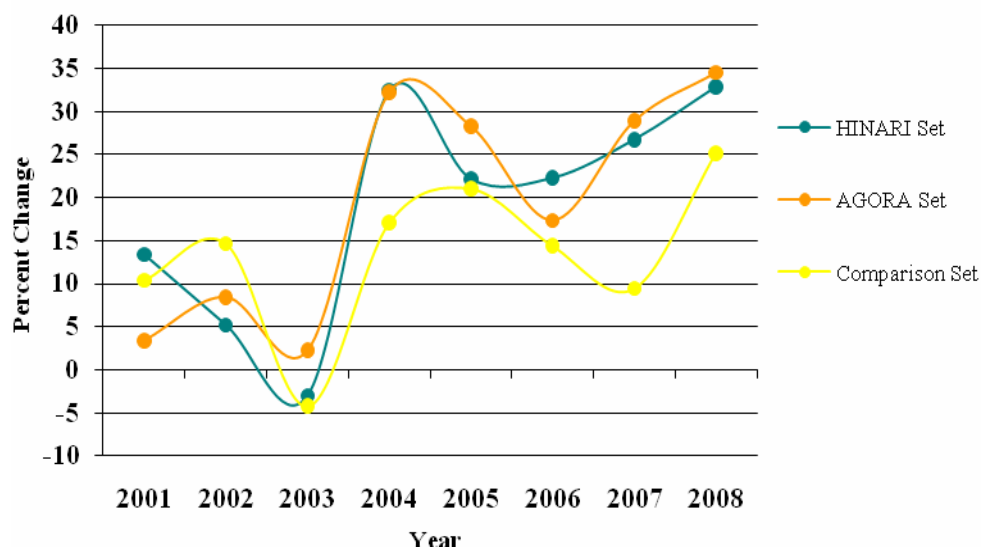


Figure 52. Percent Change in Frequency of Citations Made by Eligible Northern Africa Researchers

Table 29. Average Percent Change in Frequency of Citations Made by Eligible Northern Africa Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
12.9593	5.4926	23.5462	5.9183

1.3.1 Algeria

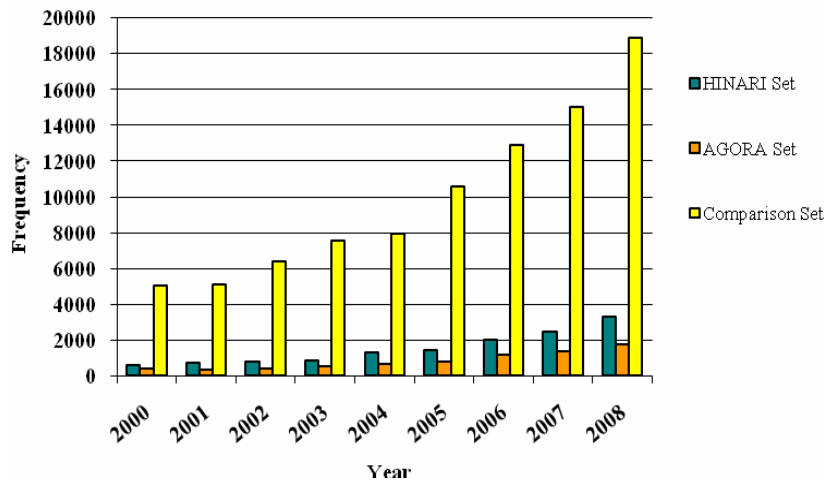


Figure 53. Frequency of Citations Made by Algeria Researchers

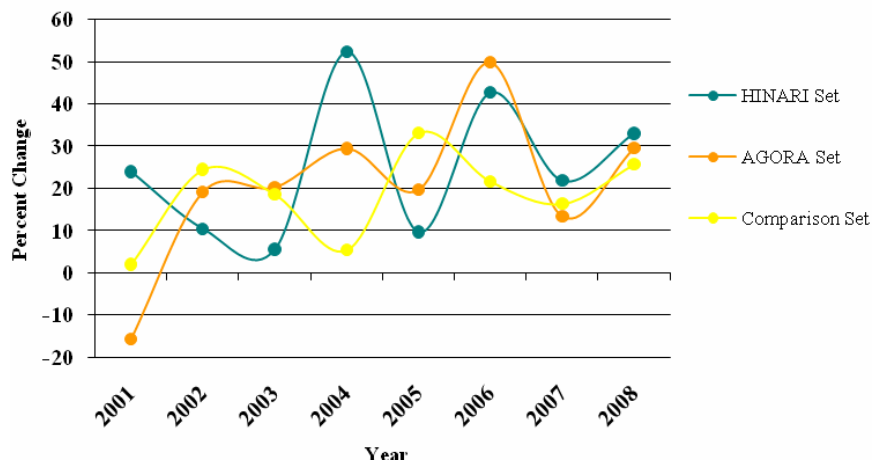


Figure 54. Percent Change in Frequency of Citations Made by Algeria Researchers

Table 30. Average Percent Change in Frequency of Citations Made by Algeria Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
10.3584	6.5436	20.4501	2.3306

1.3.2 Morocco

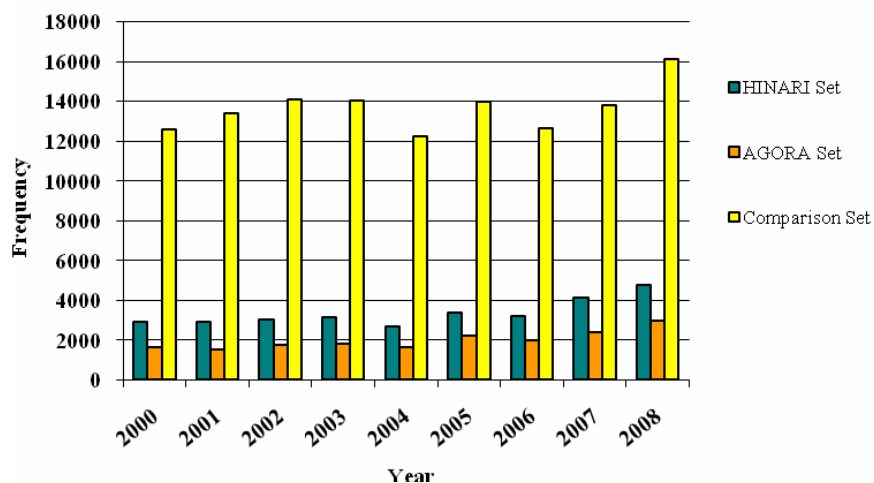


Figure 55. Frequency of Citations Made by Morocco Researchers

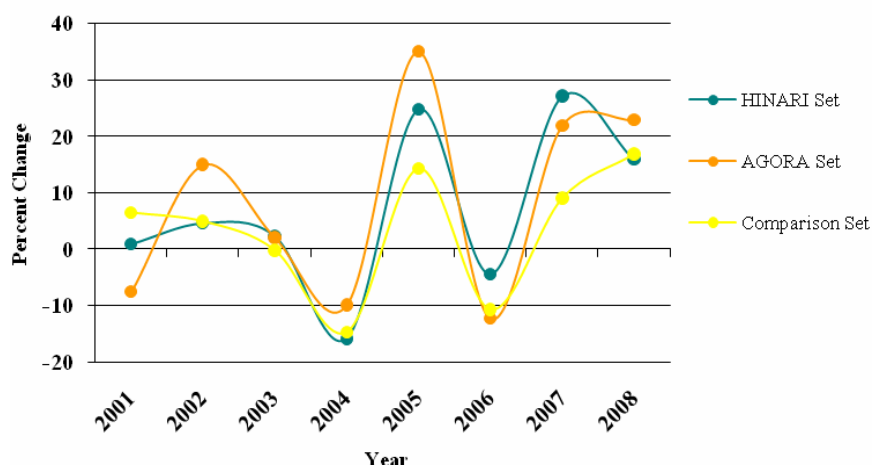


Figure 56. Percent Change in Frequency of Citations Made by Morocco Researchers

Table 31. Average Percent Change in Frequency of Citations Made by Morocco Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
5.5650	3.6610	8.4029	5.1558

1.3.3 Sudan

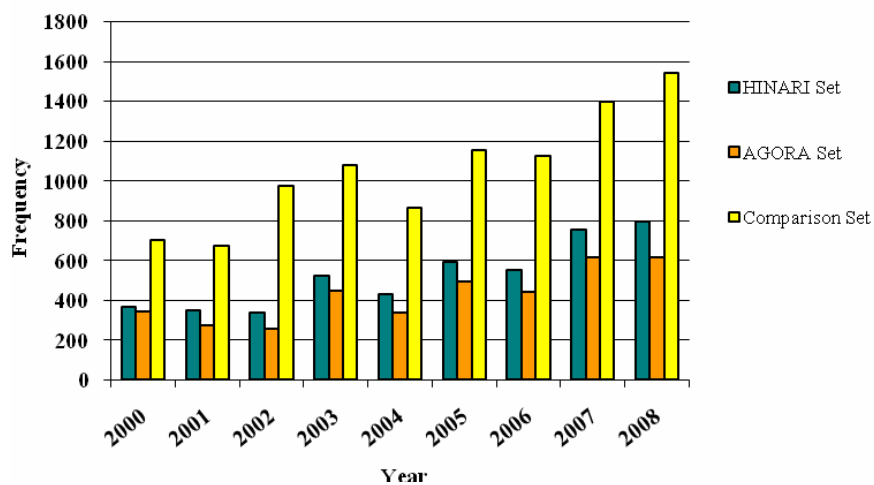


Figure 57. Frequency of Citations Made by Sudan Researchers

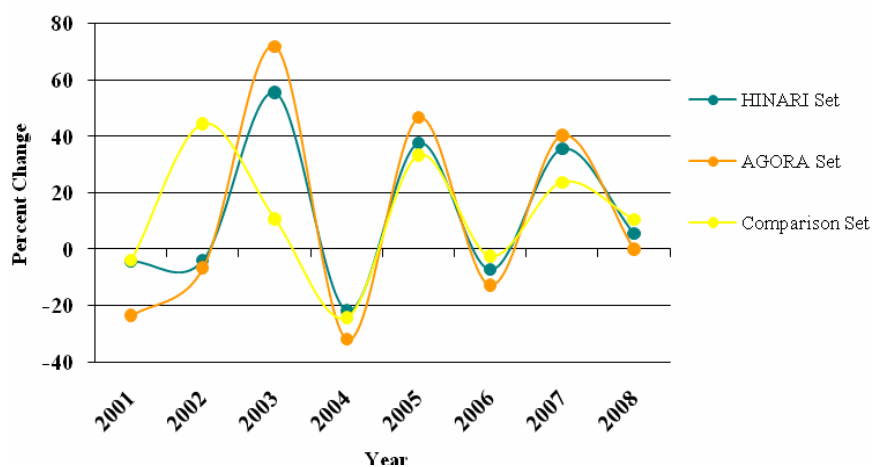


Figure 58. Percent Change in Frequency of Citations Made by Sudan Researchers

Table 32. Average Percent Change in Frequency of Citations Made by Sudan Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
21.6664	0.7008	-5.4902	-0.9476

1.3.4 Tunisia

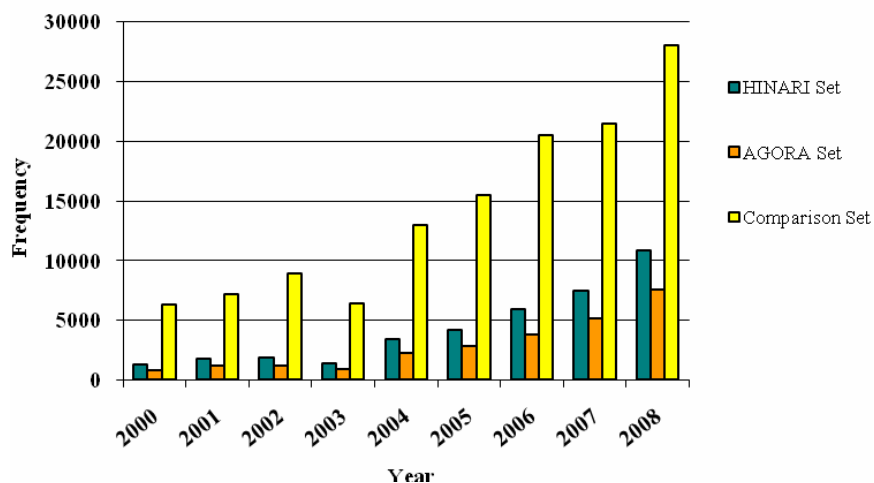


Figure 59. Frequency of Citations Made by Tunisia Researchers

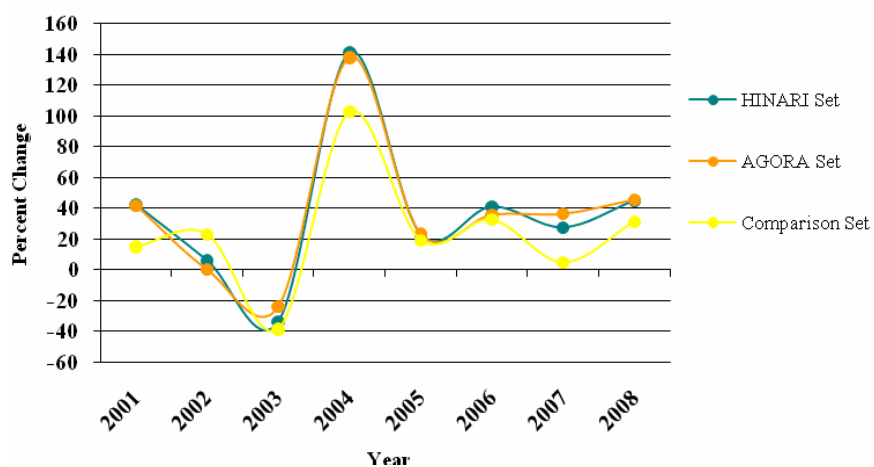


Figure 60. Percent Change in Frequency of Citations Made by Tunisia Researchers

Table 33. Average Percent Change in Frequency of Citations Made by Tunisia Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
16.5243	12.7212	49.6667	13.3836

1.4 Southern Africa

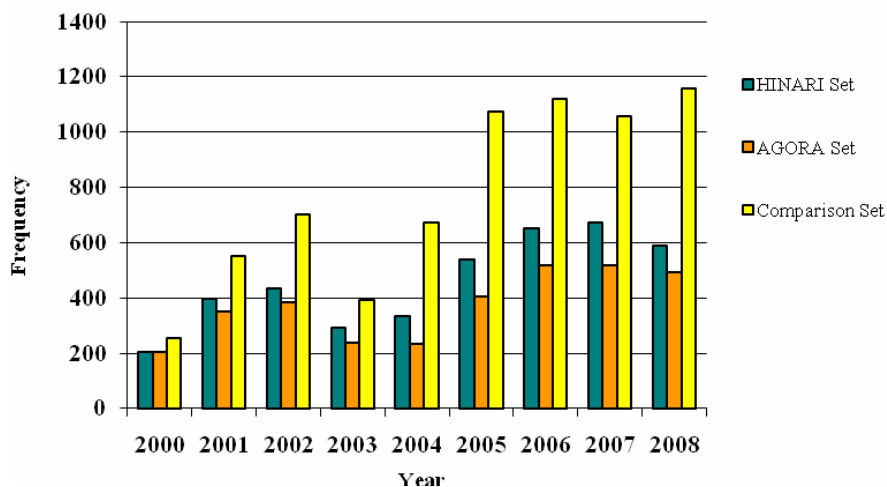


Figure 61. Frequency of Citations Made by Eligible Southern Africa Researchers

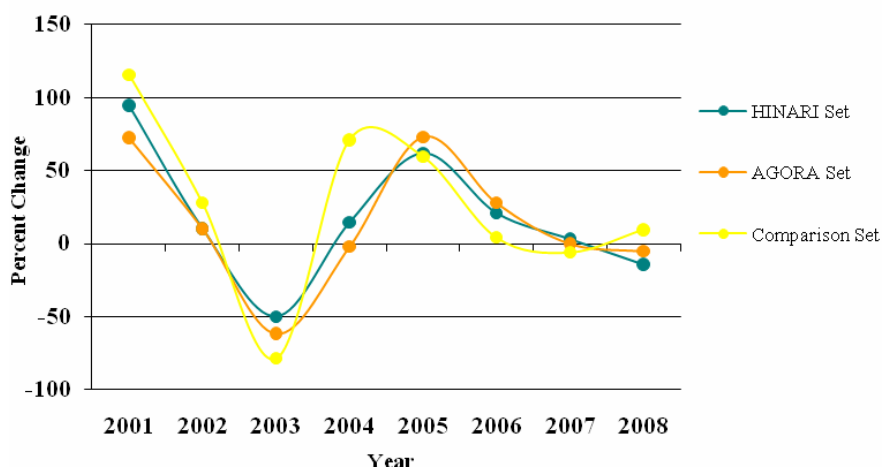


Figure 62. Percent Change in Frequency of Citations Made by Eligible Southern Africa Researchers

Table 34. Average Percent Change in Frequency of Citations Made by Eligible Southern Africa Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
-46.4450	-7.7926	11.6470	-11.0957

1.4.1 Lesotho

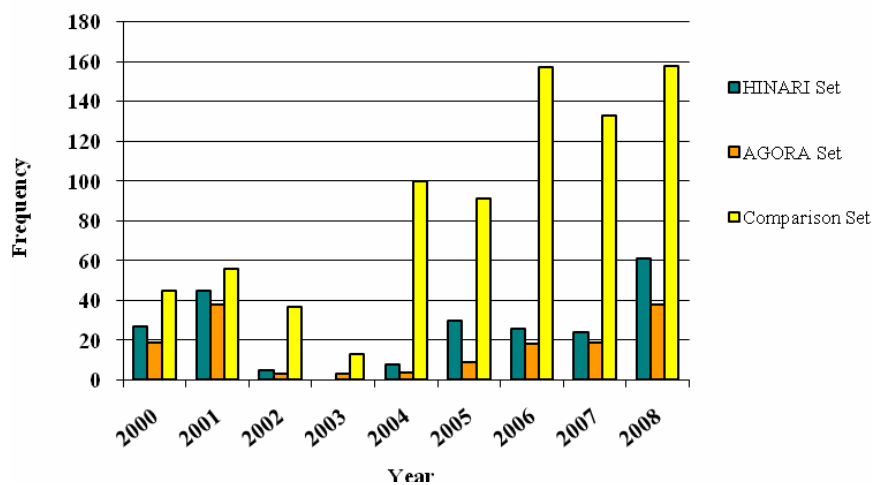


Figure 63. Frequency of Citations Made by Lesotho Researchers

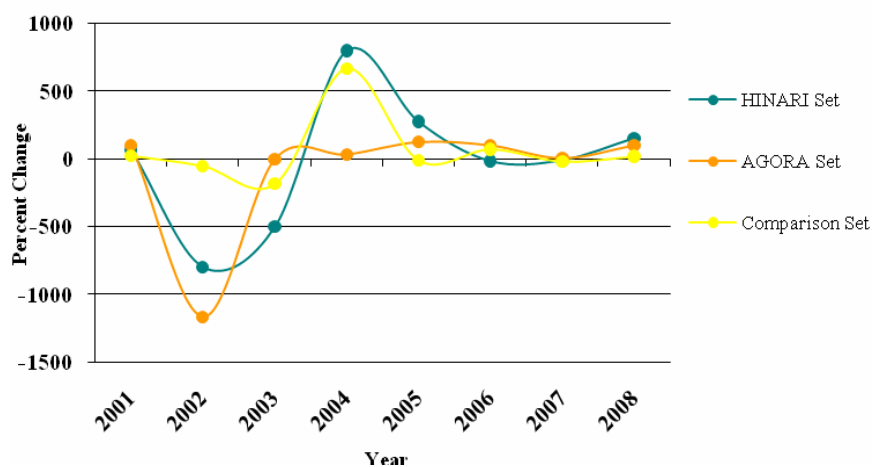


Figure 64. Percent Change in Frequency of Citations Made by Lesotho Researchers

Table 35. Average Percent Change in Frequency of Citations Made by Lesotho Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
484.2415	-68.6228	428.3333	-152.9844

1.4.2 Namibia

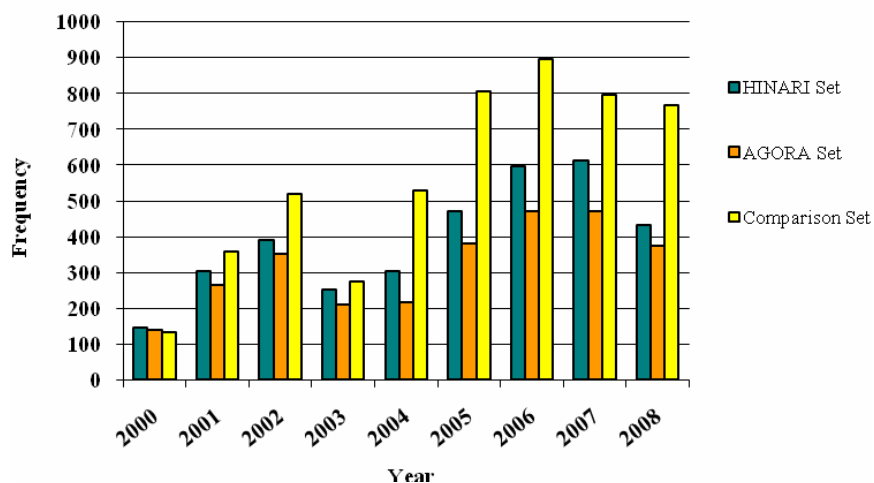


Figure 65. Frequency of Citations Made by Namibia Researchers

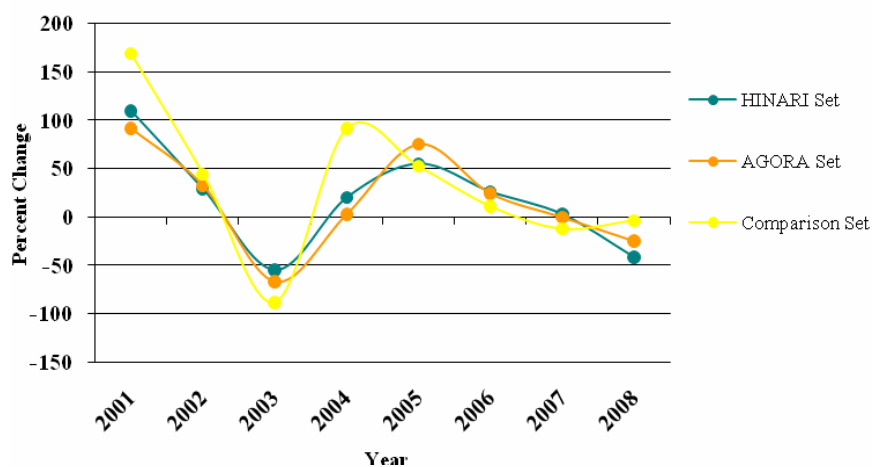


Figure 66. Percent Change in Frequency of Citations Made by Namibia Researchers

Table 36. Average Percent Change in Frequency of Citations Made by Namibia Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
-67.9623	-14.6374	-3.6089	-16.2648

10.1.4.3 Swaziland

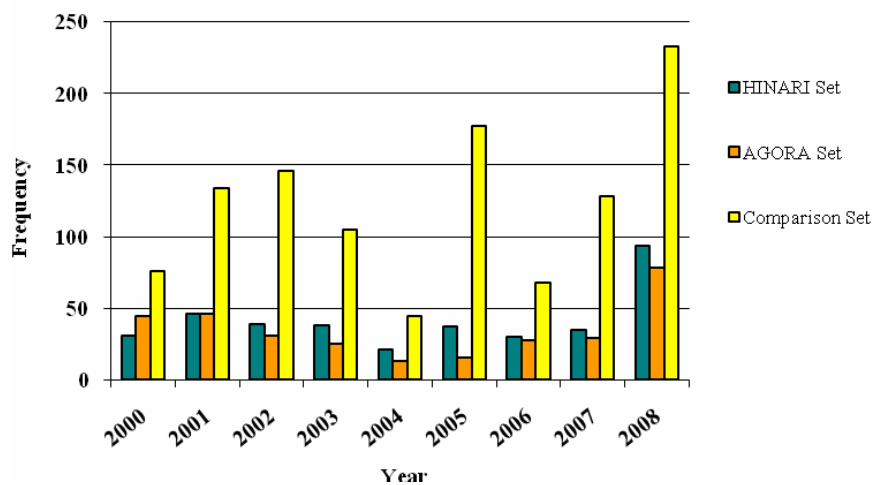


Figure 67. Frequency of Citations Made by Swaziland Researchers

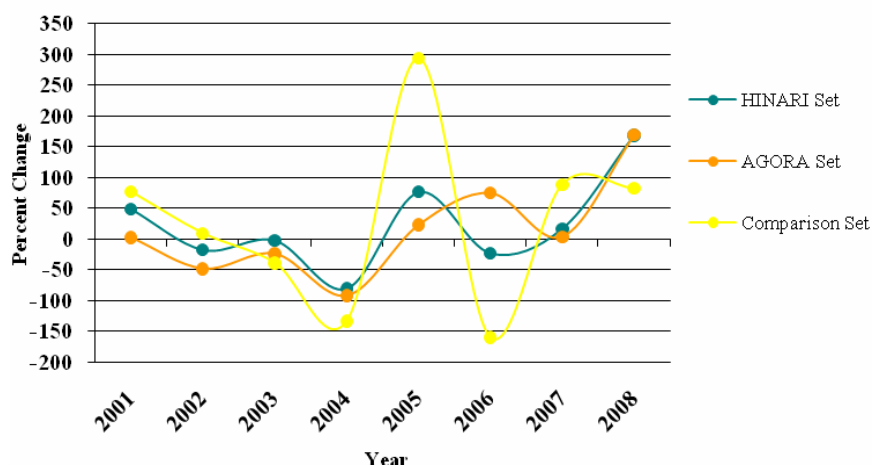


Figure 68. Percent Change in Frequency of Citations Made by Swaziland Researchers

Table 37. Average Percent Change in Frequency of Citations Made by Swaziland Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
10.5327	-3.9058	59.0495	-13.5068

1.5 Western Africa

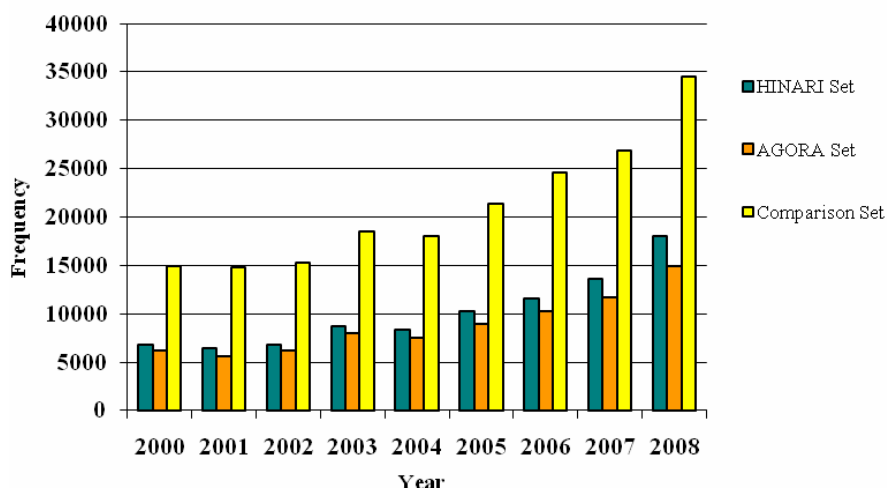


Figure 69. Frequency of Citations Made by Eligible Western Africa Researchers

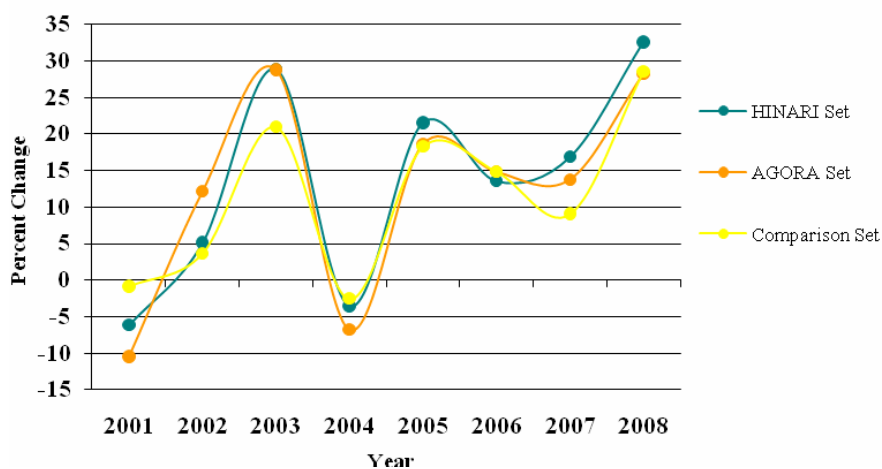


Figure 70. Percent Change in Frequency of Citations Made by Eligible Western Africa Researchers

Table 38. Average Percent Change in Frequency of Citations Made by Eligible Western Africa Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference
18.8279	2.1147	3.5686	0.8760

1.5.1 Benin

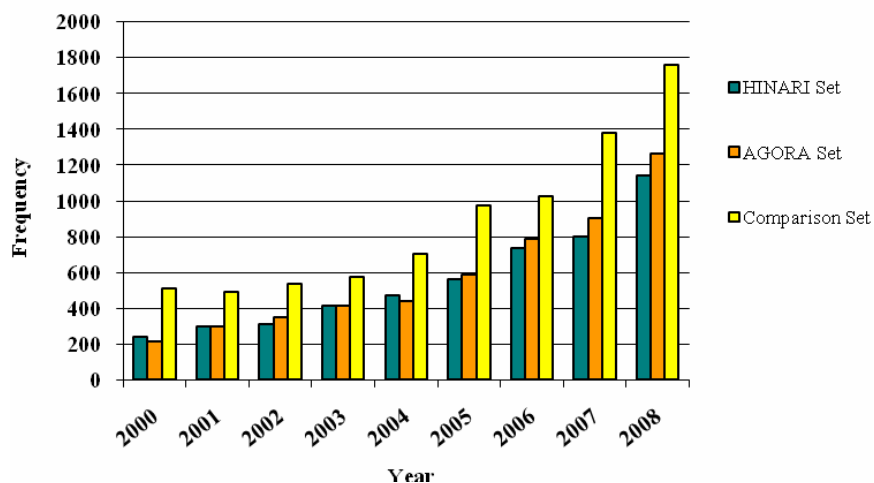


Figure 71. Frequency of Citations Made by Benin Researchers

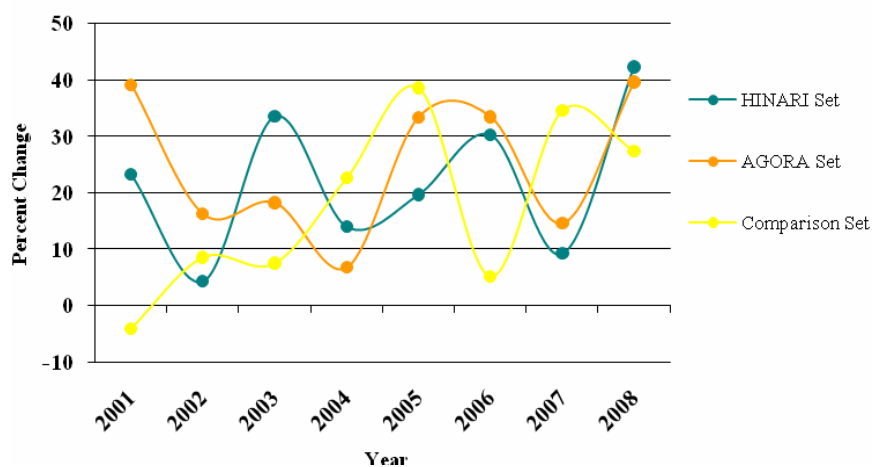


Figure 73. Percent Change in Frequency of Citations Made by Benin Researchers

Table 39. Average Percent Change in Frequency of Citations Made by Benin Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference
11.0356	4.5318	1.0240	7.6313

1.5.2 Burkina Faso

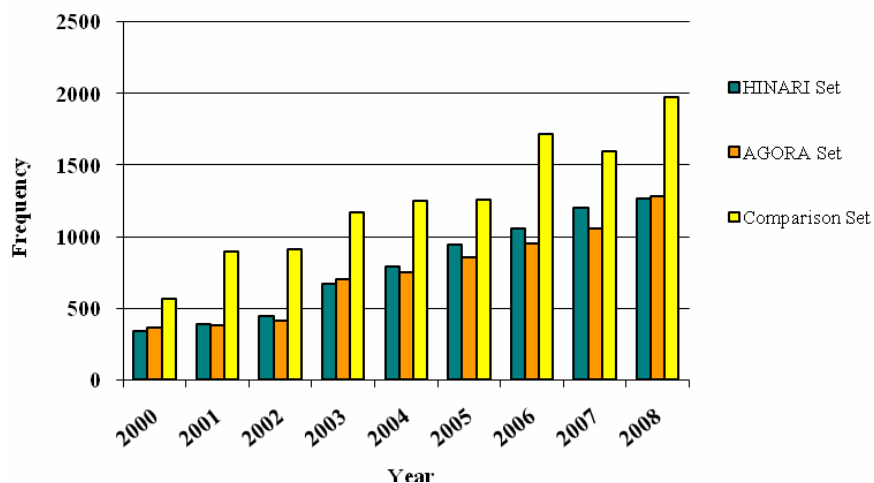


Figure 73. Frequency of Citations Made by Burkina Faso Researchers

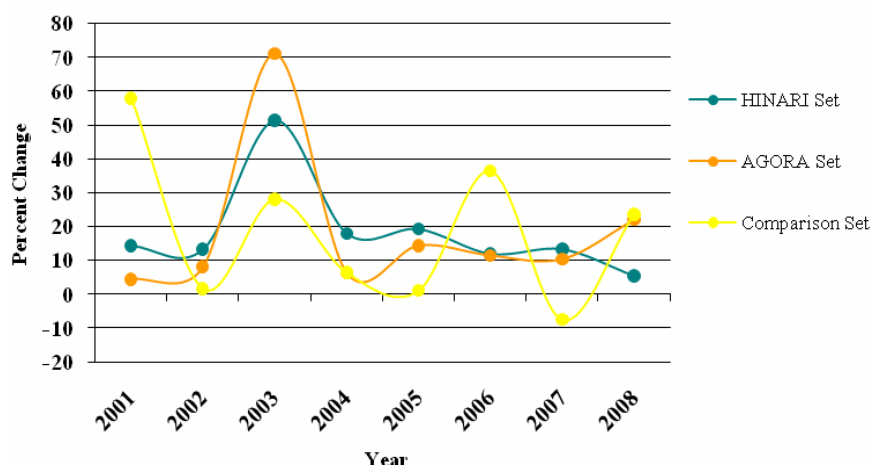


Figure 74. Percent Change in Frequency of Citations Made by Burkina Faso Researchers

Table 40. Average Percent Change in Frequency of Citations Made by Burkina Faso Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference
6.1073	-0.0681	-14.9842	0.0518

1.5.3 Cape Verde

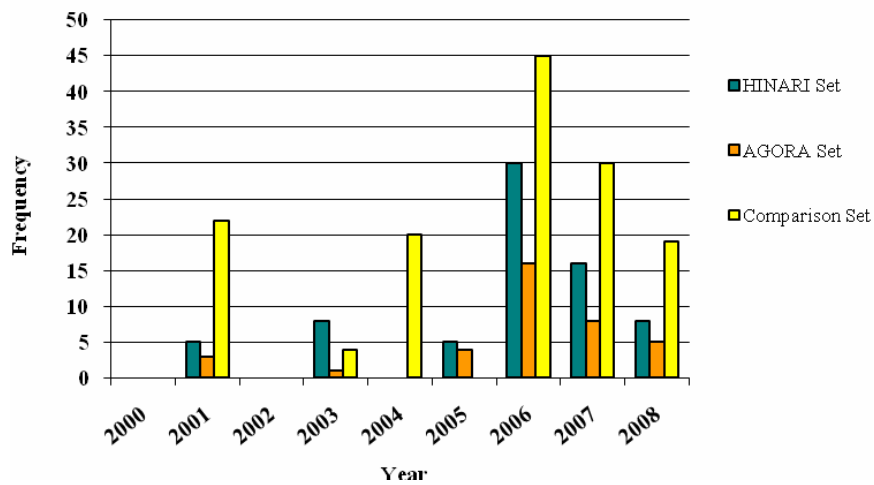


Figure 75. Frequency of Citations Made by Cape Verde Researchers

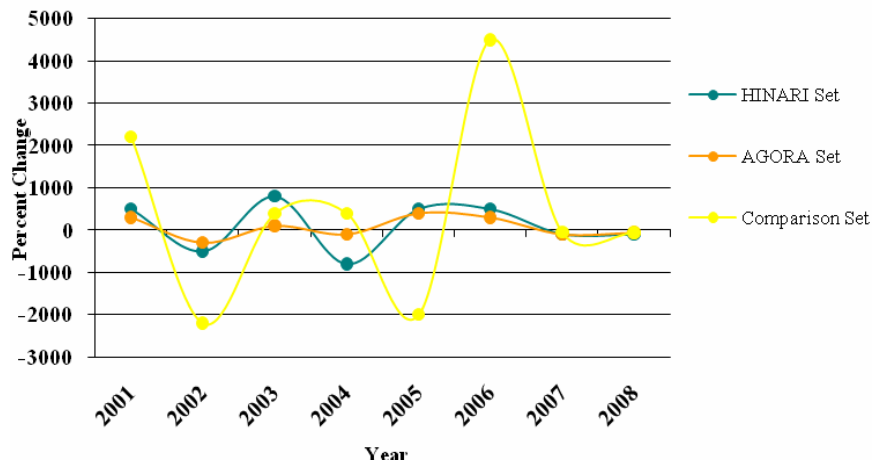


Figure 76. Percent Change in Frequency of Citations Made by Cape Verde Researchers

Table 40. Average Percent Change in Frequency of Citations Made by Cape Verde Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference
135.4167	-297.4507	54.6667	-331.5132

1.5.4 Cote Ivoire

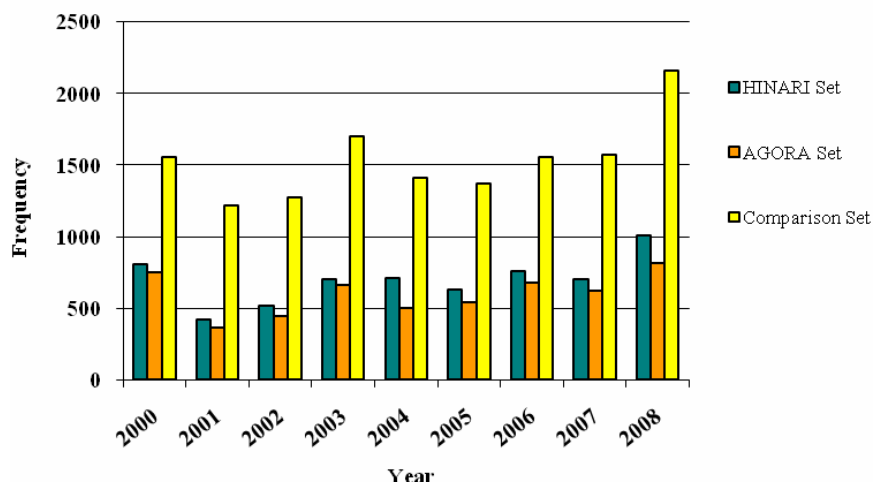


Figure 77. Frequency of Citations Made by Cote Ivoire Researchers

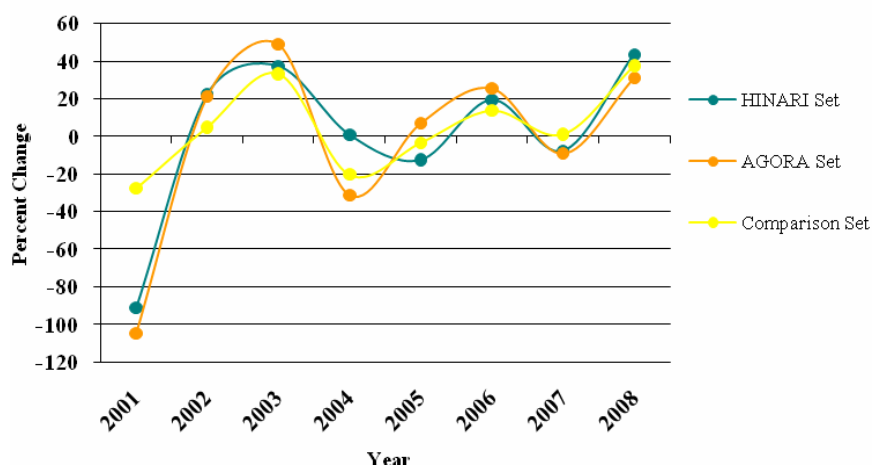


Figure 78. Percent Change in Frequency of Citations Made by Cote Ivoire Researchers

Table 42. Average Percent Change in Frequency of Citations Made by Cote Ivoire Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference
47.9279	-3.3807	16.2186	-6.3538

1.5.5 Gambia

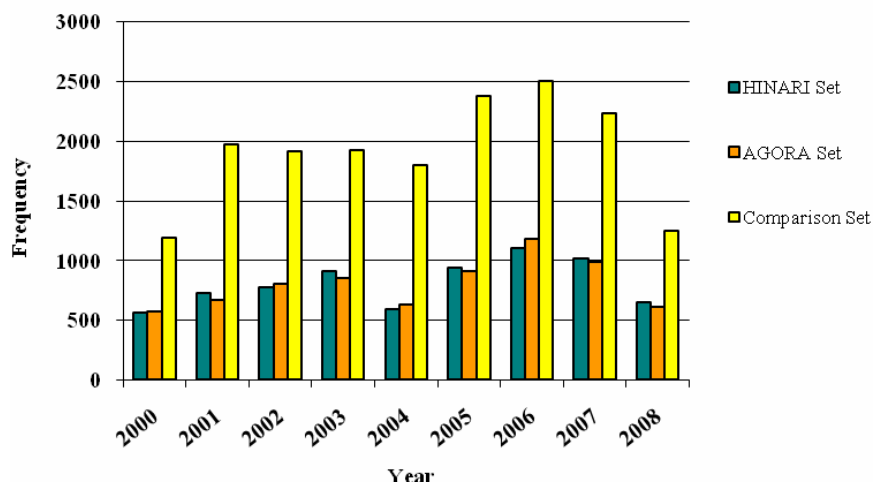


Figure 79. Frequency of Citations Made by Gambia Researchers

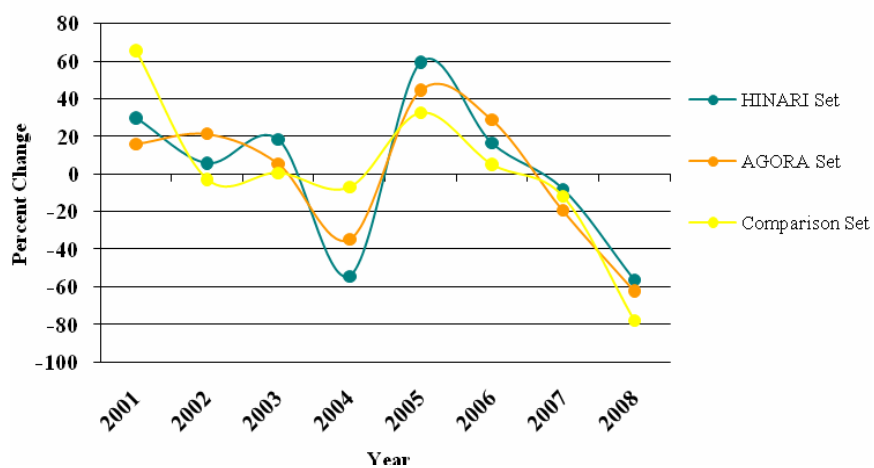


Figure 80. Percent Change in Frequency of Citations Made by Gambia Researchers

Table 43. Average Percent Change in Frequency of Citations Made by Gambia Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference
-21.8972	0.9533	-22.8548	-0.4665

1.5.6 Ghana

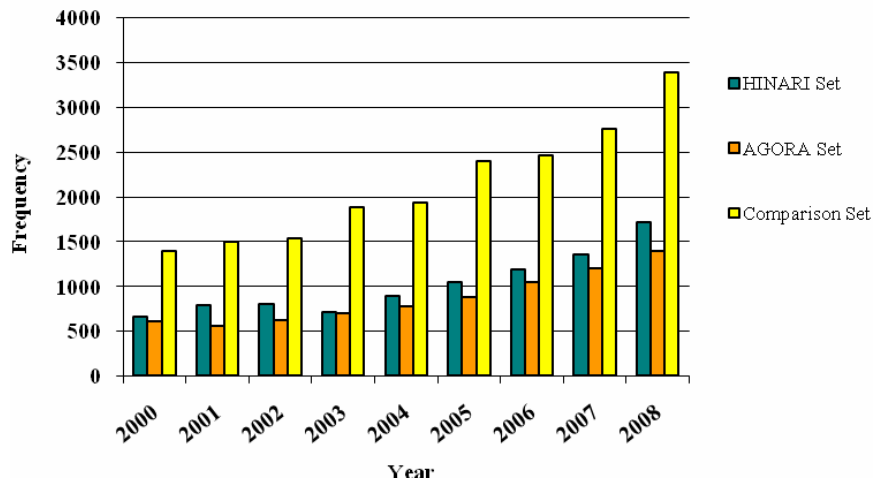


Figure 81. Frequency of Citations Made by Ghana Researchers

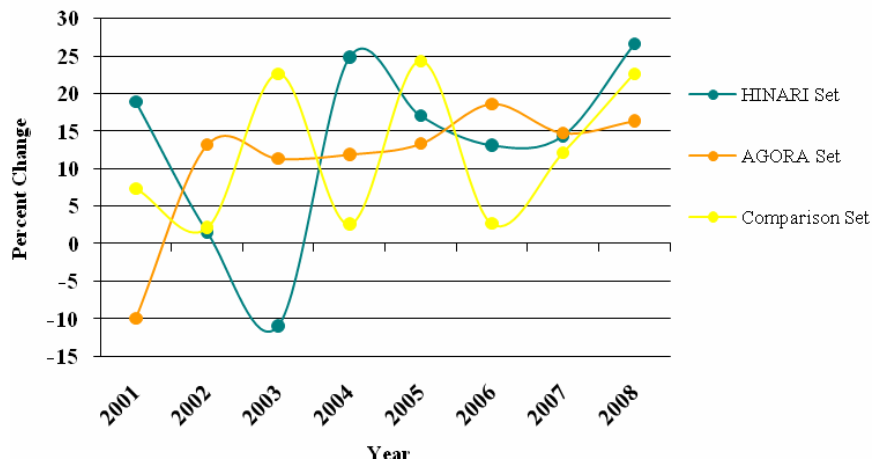


Figure 82. Percent Change in Frequency of Citations Made by Ghana Researchers

Table 44. Average Percent Change in Frequency of Citations Made by Ghana Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference
3.9621	1.1299	10.1348	-0.8533

1.5.7 Guinea

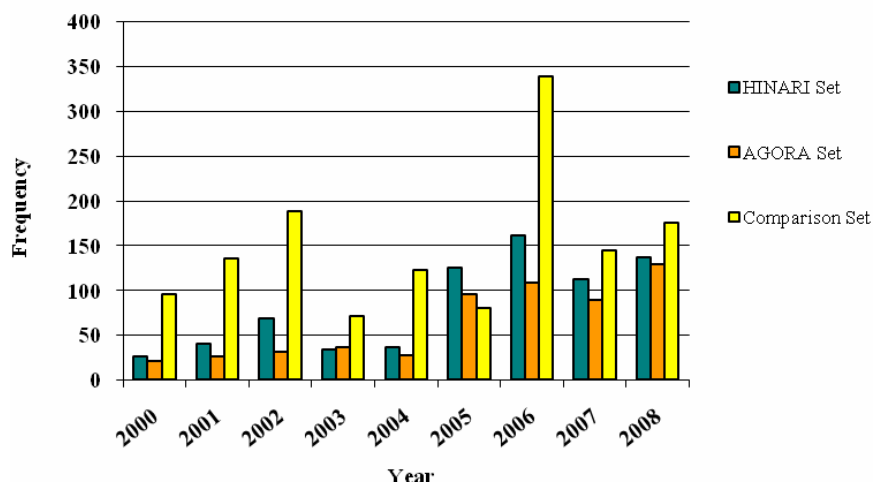


Figure 83. Frequency of Citations Made by Guinea Researchers

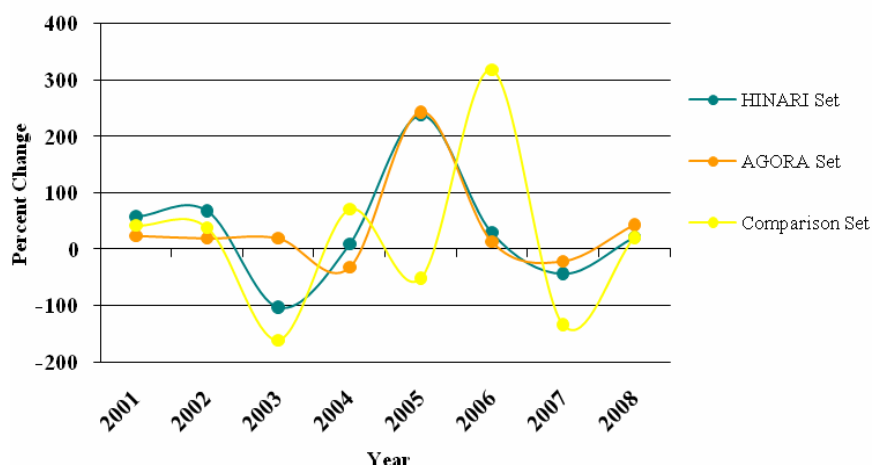


Figure 84. Percent Change in Frequency of Citations Made by Guinea Researchers

Table 45. Average Percent Change in Frequency of Citations Made by Guinea Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference
-37.7931	16.7492	28.4973	20.7107

1.5.8 Guinea-Bissau

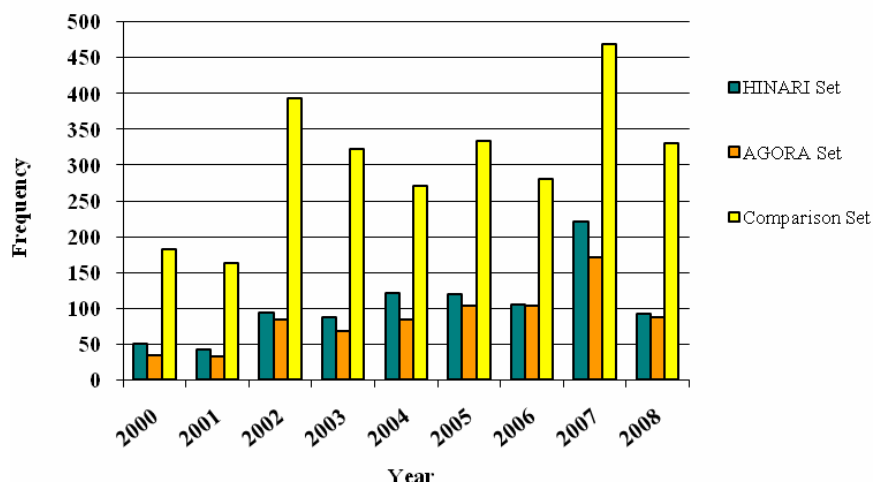


Figure 85. Frequency of Citations Made by Guinea-Bissau Researchers

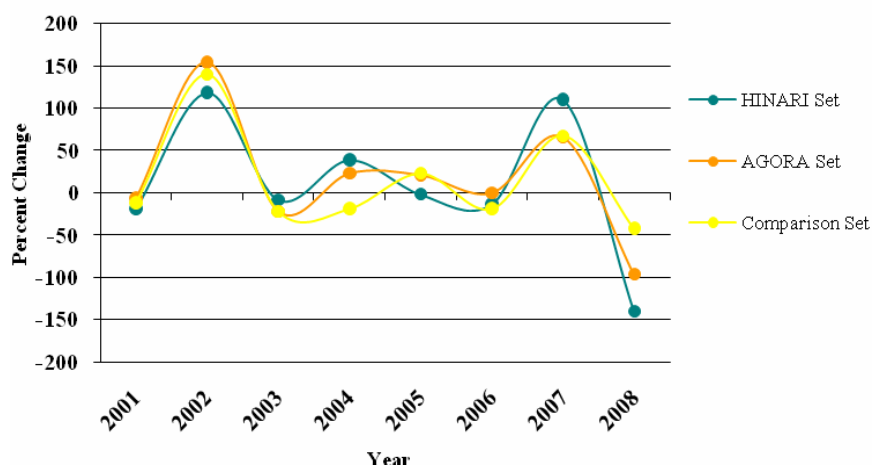


Figure 86. Percent Change in Frequency of Citations Made by Guinea-Bissau Researchers

Table 46. Average Percent Change in Frequency of Citations Made by Guinea-Bissau Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference
-52.2868	-3.7786	-39.4821	3.0087

1.5.9 Liberia

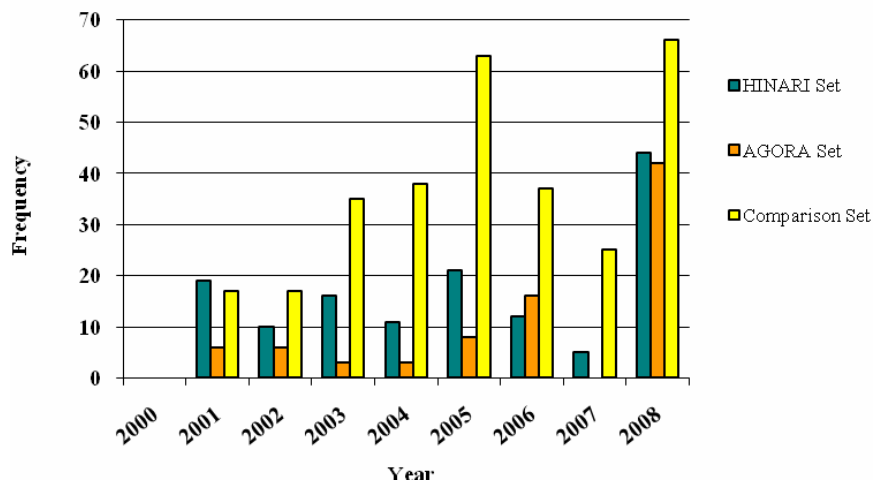


Figure 87. Frequency of Citations Made by Liberia Researchers

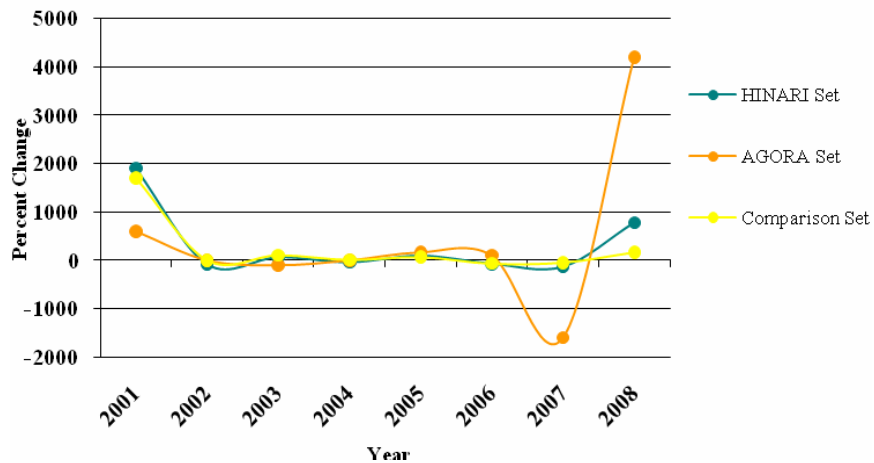


Figure 88. Percent Change in Frequency of Citations Made by Liberia Researchers

Table 47. Average Percent Change in Frequency of Citations Made by Liberia Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference
-793.2576	69.3102	406.6667	180.0867

1.5.10 Mali

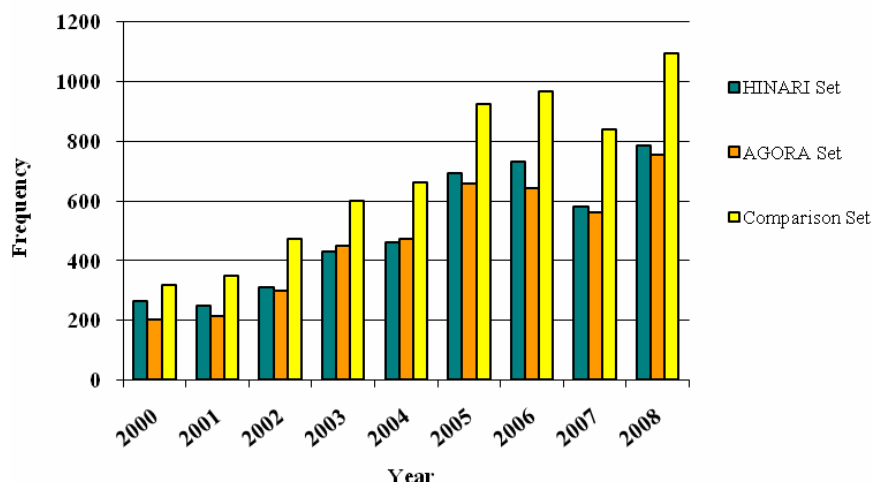


Figure 89. Frequency of Citations Made by Mali Researchersⁱⁱ

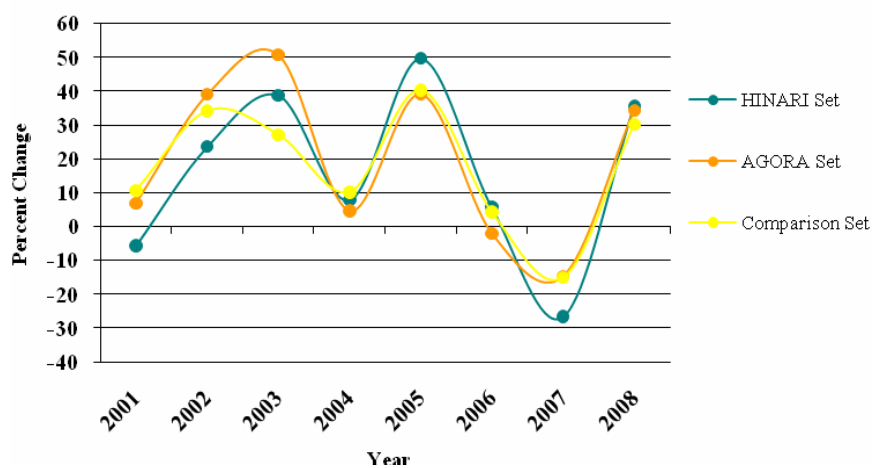


Figure 90. Percent Change in Frequency of Citations Made by Mali Researchers

Table 48. Average Percent Change in Frequency of Citations Made by Mali Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference
9.5316	-1.6055	-20.0023	2.0348

1.5.11 Mauritania

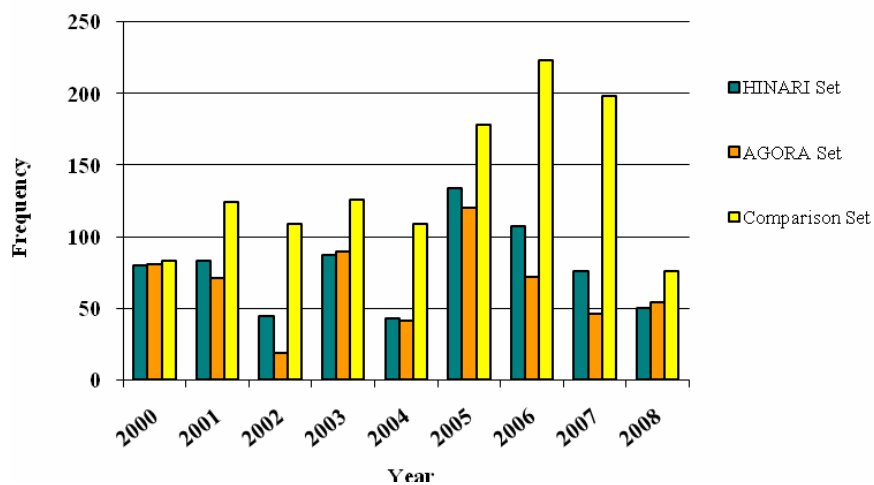


Figure 91. Frequency of Citations Made by Mauritania Researchers

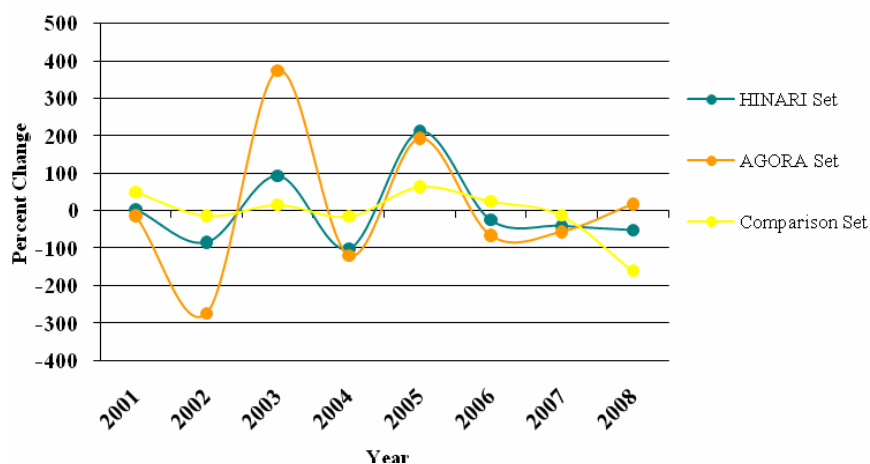


Figure 92. Percent Change in Frequency of Citations Made by Mauritania Researchers

Table 49. Average Percent Change in Frequency of Citations Made by Mauritania Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference
54.4493	6.6064	-35.1638	12.7777

1.5.12 Niger

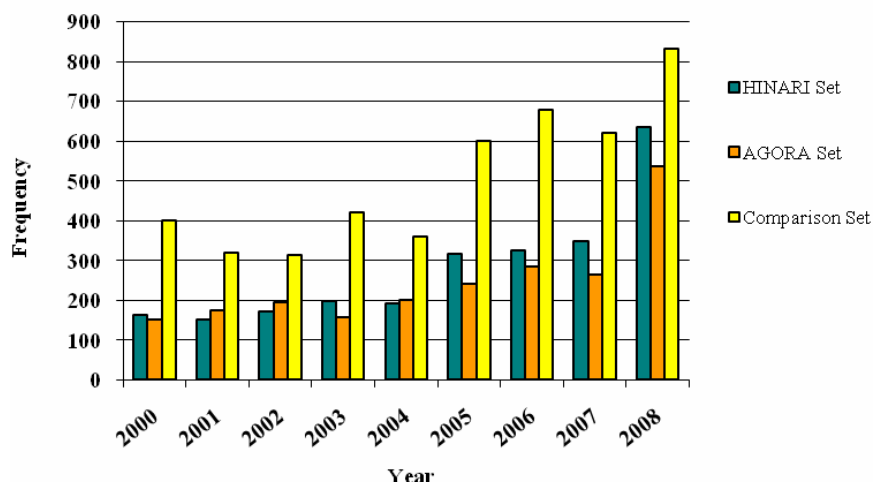


Figure 93. Frequency of Citations Made by Niger Researchers

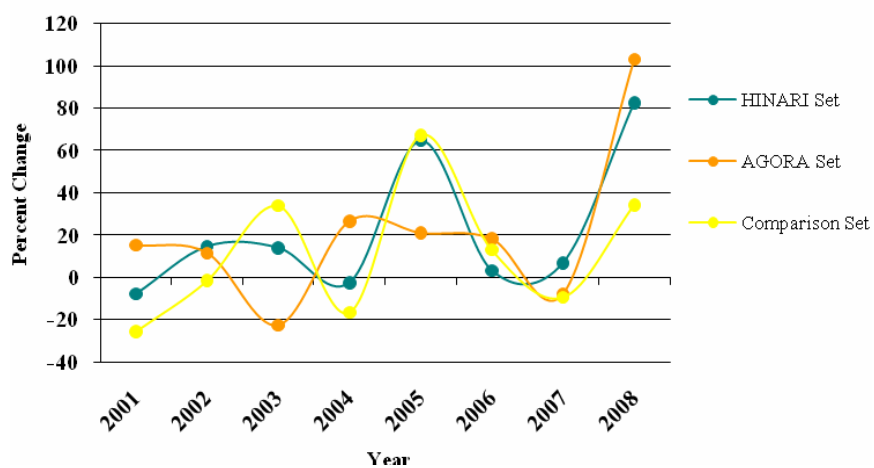


Figure 94. Percent Change in Frequency of Citations Made by Niger Researchers

Table 50. Average Percent Change in Frequency of Citations Made by Niger Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference
24.7281	10.0311	30.8579	8.7737

1.5.13 Nigeria

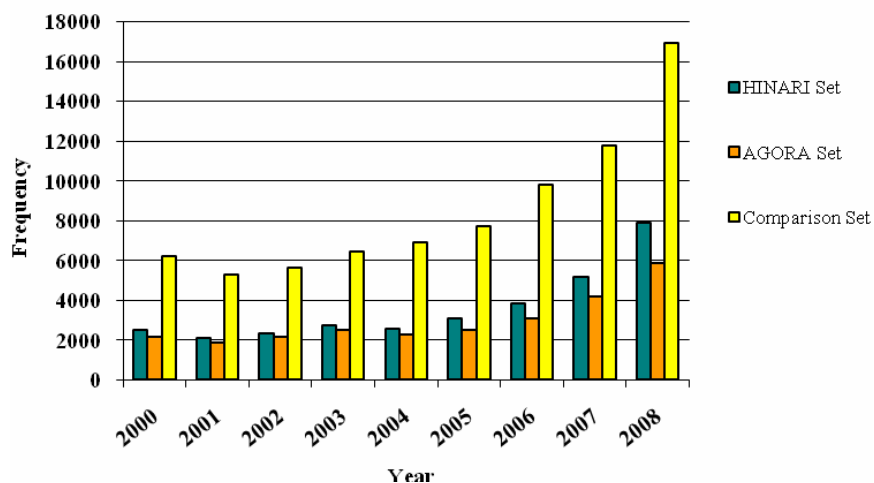


Figure 95. Frequency of Citations Made by Nigeria Researchers

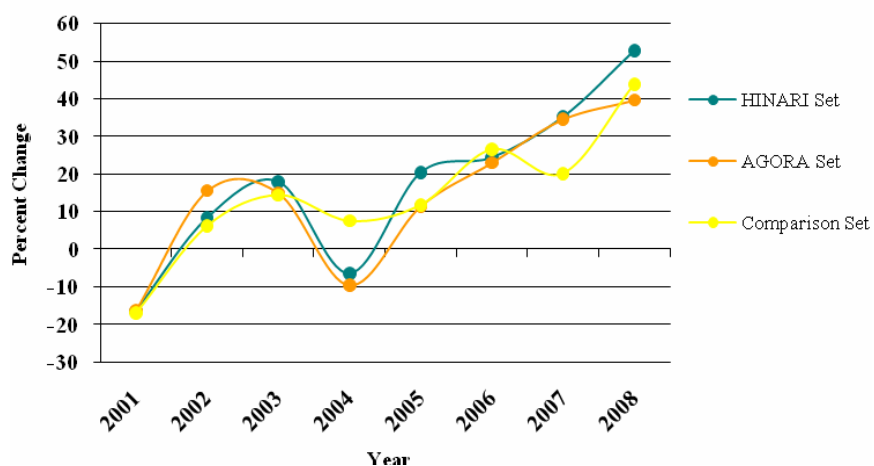


Figure 96. Percent Change in Frequency of Citations Made by Nigeria Researchers

Table 51. Average Percent Change in Frequency of Citations Made by Nigeria Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference
28.0853	2.8470	15.0883	0.0151

1.5.14 Senegal

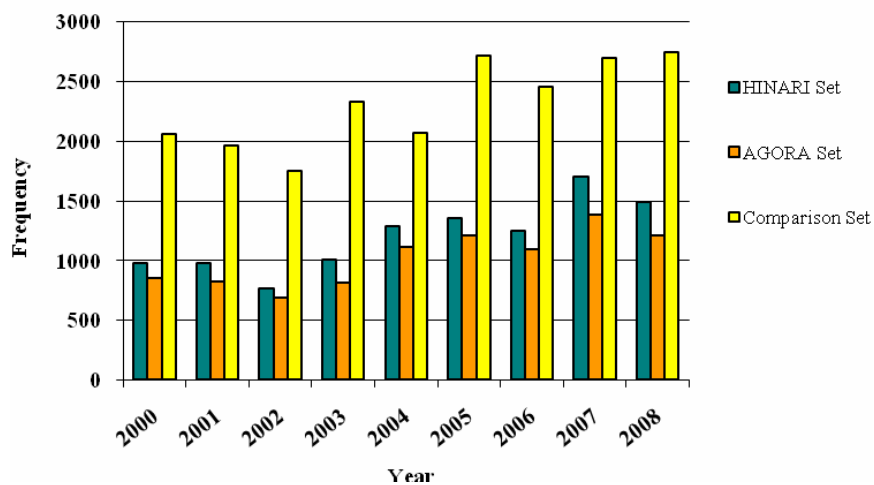


Figure 97. Frequency of Citations Made by Senegal Researchers

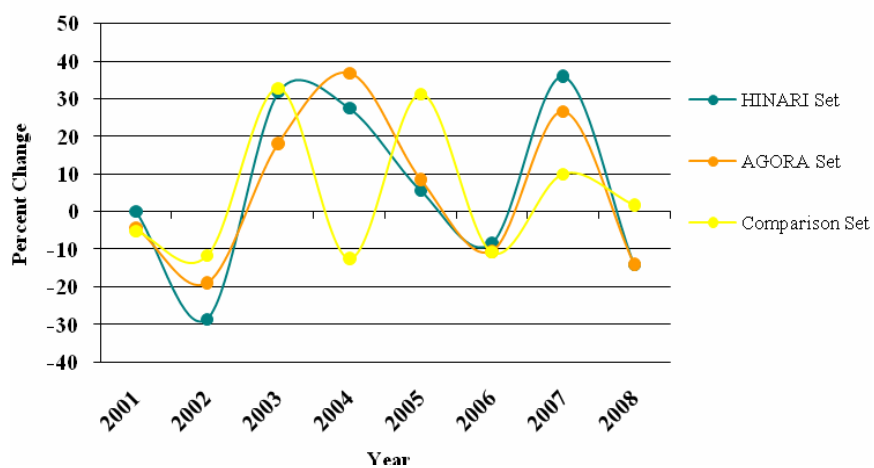


Figure 98. Percent Change in Frequency of Citations Made by Senegal Researchers

Table 52. Average Percent Change in Frequency of Citations Made by Senegal Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference
27.3318	1.7277	11.1911	0.8240

1.5.15 Sierra Leone

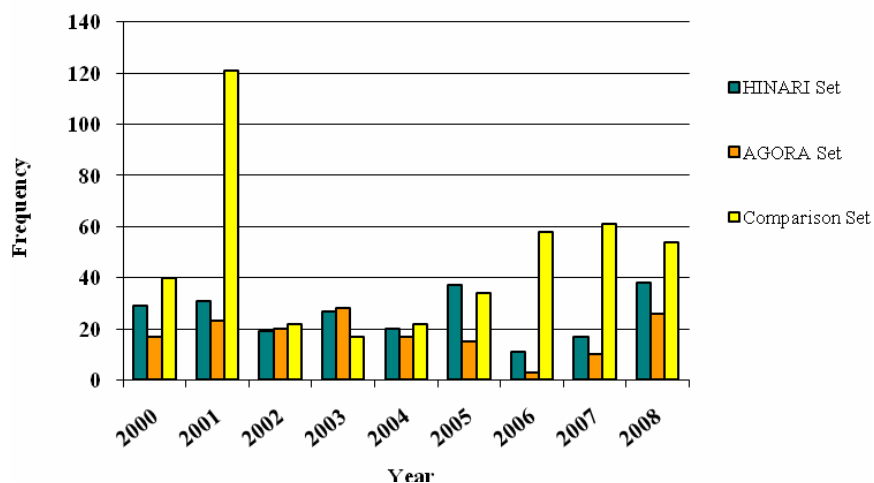


Figure 99. Frequency of Citations Made by Sierra Leone Researchers

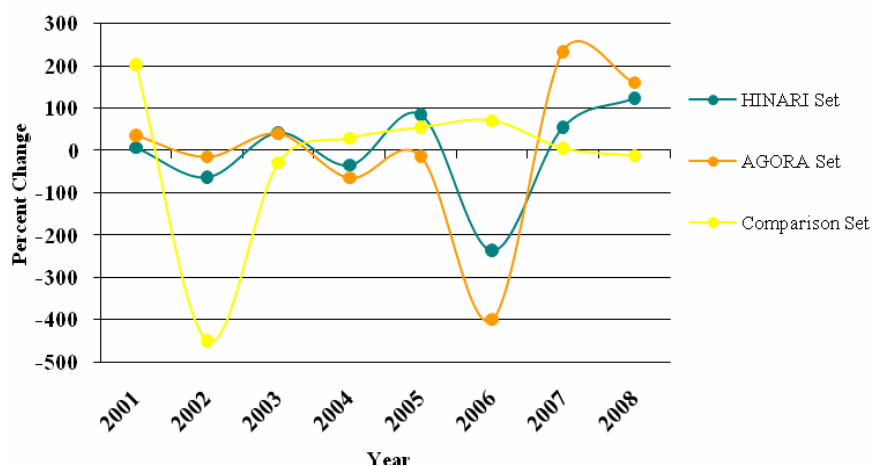


Figure 100. Percent Change in Frequency of Citations Made by Sierra Leone Researchers

Table 53. Average Percent Change in Frequency of Citations Made by Sierra Leone Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference
33.7668	13.4640	-37.0392	13.2181

1.5.16 Togo

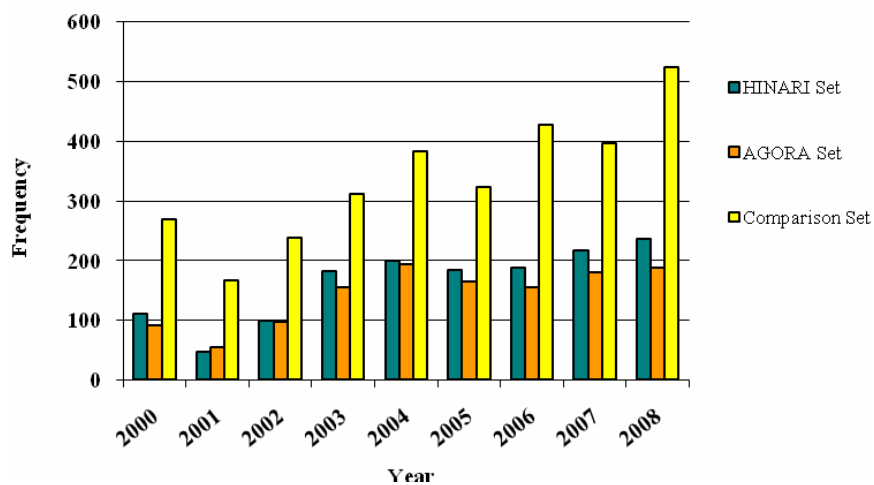


Figure 101. Frequency of Citations Made by Togo Researchers

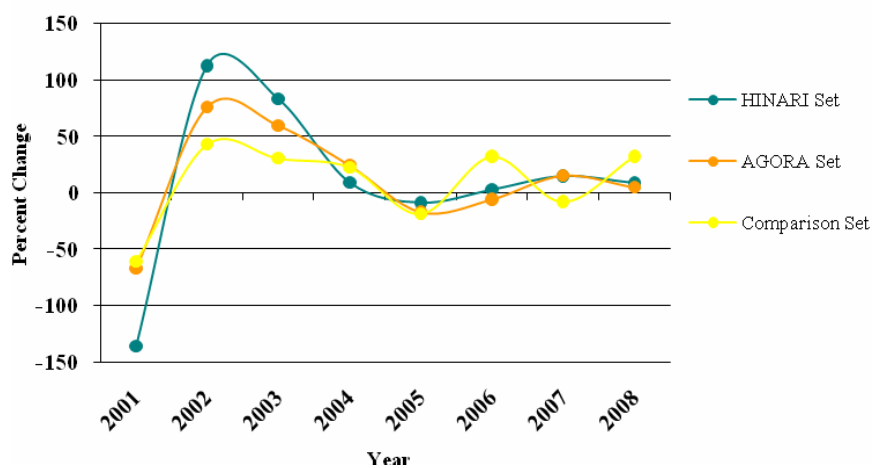


Figure 103. Percent Change in Frequency of Citations Made by Togo Researchers

Table 54. Average Percent Change in Frequency of Citations Made by Togo Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference
30.0158	1.6280	-18.5292	2.1991

2.0 America

Table 55. Average Percent Change in Citations to HINARI Made by Eligible American Researchers

	HINARI Average 2001-2002	HINARI Average 2003- 2008	HINARI Change Before- After	HINARI Average 2001- 2008	Comparison Average 2001-2008	HINARI- Comparison Difference
Caribbean America	10.6378	15.8162	5.1784	14.5216	9.8696	4.6520
Central America	-12.1220	22.7303	34.8524	14.0172	15.8909	-1.8737
South America	26.3456	15.9406	-10.4050	18.5418	12.9869	5.5549

Table 55 shows sub-regional variation with respect to the average annual percent change in frequency before and after the initiation of the program, with two sub-regions demonstrating positive change and one showing negative change. For the entire period of the study, two sub-regions reveal a greater average annual percent change in frequency of citations to the HINARI set than to the Comparison set and one shows a greater average percent change in citation frequency to the Comparison set than to the HINARI set.

Table 56. Average Percent Change in Citations to AGORA Made by Eligible American Researchers

	AGORA Average 2001- 2003	AGORA Average 2004- 2008	AGORA Change Before- After	AGORA Average 2001- 2008	Comparison Average 2001-2008	AGORA- Comparison Difference
Caribbean America	48.2227	-5.7402	-53.9630	14.4959	9.8696	4.6263
Central America	6.0797	14.8903	8.8106	11.5863	15.8909	-4.3046
South America	20.2684	16.7122	-3.5562	18.0458	12.9869	5.0589

Table 56 demonstrates sub-regional variation with respect to the average annual percent change in frequency before and after the initiation of the AGORA program, with two sub-regions demonstrating negative change and one showing positive change. For the entire period of the study, two sub-regions reveal a greater average annual percent change in frequency of citations to the AGORA set than to the Comparison Set and one reveals a greater average annual percent change in frequency citations to the Comparison set.

Table 57. Results Summary for Eligible American Researchers

	Caribbean America	Central America	South America
Q1: Has the frequency of citations to the HINARI set increased each year?	N	N	Y
Q2: Has the frequency of citations to the AGORA set increased each year?	N	N	Y
Q3: Has the frequency of citations to the Comparison set increased each year?	N	N	N
Q4: Has the percent change in frequency of citations to the HINARI set increased each year?	N	N	N
Q5: Has the percent change in frequency of citations to the AGORA set increased each year?	N	N	N
Q6: Has the percent change in frequency of citations to the Comparison set increased each year?	N	N	N
Q7: Is the average percent change in frequency of citations to the HINARI set from 2003-2008 greater than that from 2000-2002?	Y	Y	N
Q8: Is average percent change in frequency of citations to the HINARI 2000-2008 greater than that of the Comparison set?	Y	N	Y
Q9: Is average percent change in frequency of citations to the AGORA set from 2004-2008 greater than that from 2000-2003?	N	Y	N
Q10: Is average percent change in citations to the AGORA 2000-2008 greater than that to the Comparison set?	Y	N	Y
Q11: Is there regional variation with respect to the frequency of and percent change in frequency of citations to the HINARI set?	Y	Y	Y

	Caribbean America	Central America	South America
Q12: Is there regional variation with respect to the frequency of and percent change in frequency of citations to the AGORA set?	Y	Y	Y

2.1 Caribbean

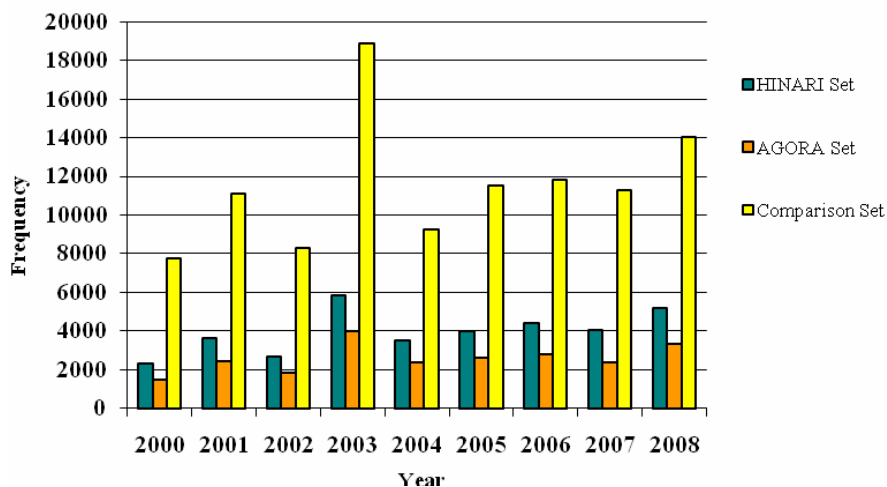


Figure 105. Frequency of Citations Made by Eligible Caribbean Researchers



Figure 106. Percent Change in Frequency of Citations Made by Eligible Caribbean Researchers

Table 58. Average Percent Change in Frequency of Citations Made by Eligible Caribbean Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
5.1784	4.6520	-53.9630	4.6263

2.1.1 Cuba

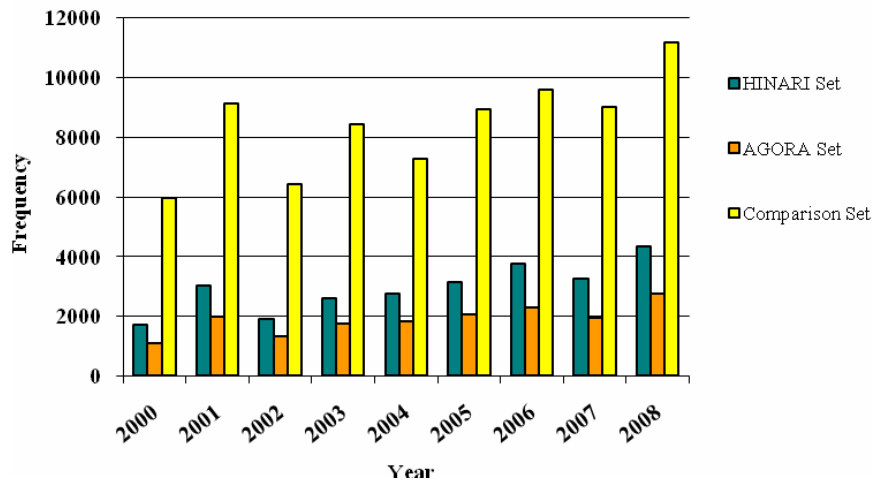


Figure 107. Frequency of Citations Made by Cuba Researchers

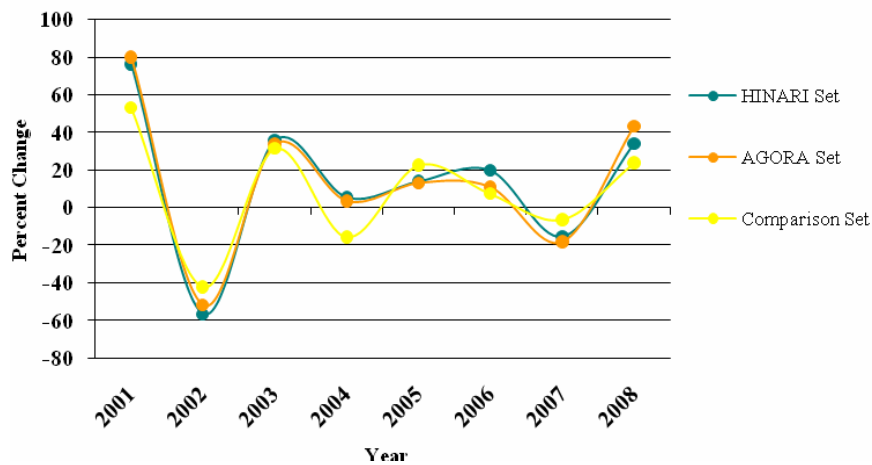


Figure 108. Percent Change in Frequency of Citations Made by Cuba Researchers

Table 59. Average Percent Change in Frequency of Citations Made by Cuba Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
5.6308	4.8831	-10.1422	5.1201

2.1.2 Dominican Republic

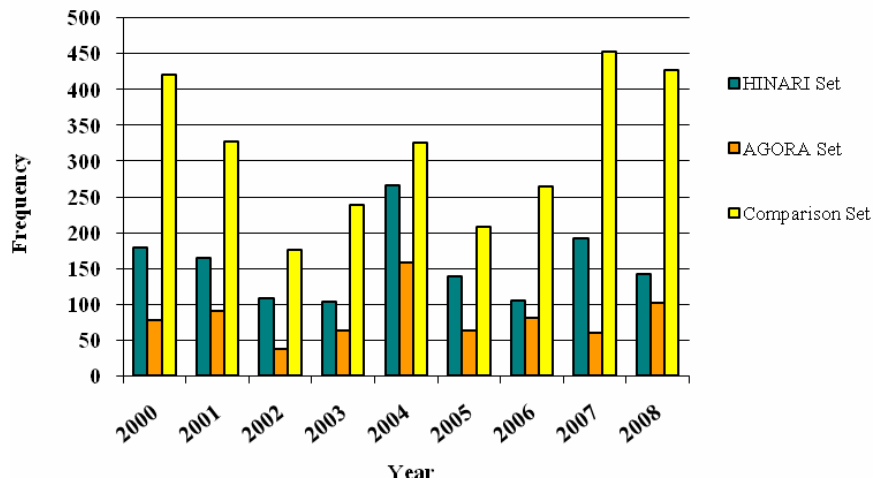


Figure 109. Frequency of Citations Made by Dominican Republic Researchers

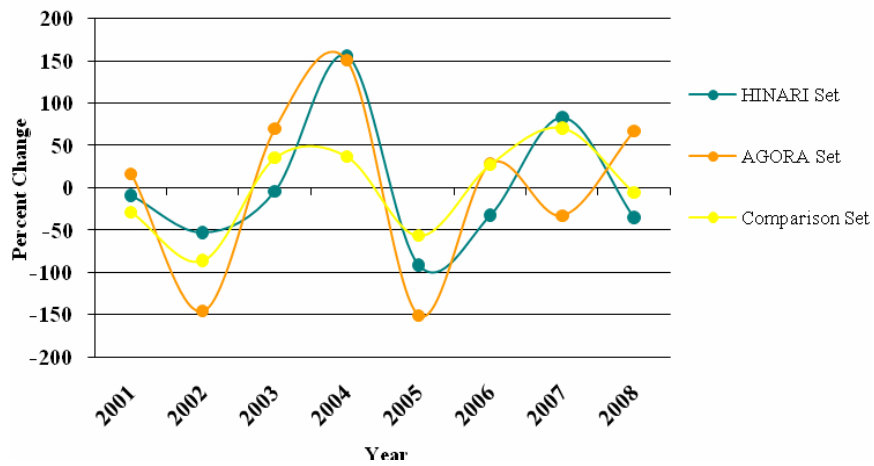


Figure 110. Percent Change in Frequency of Citations Made by Dominican Republic Researchers

Table 60. Average Percent Change in Frequency of Citations Made by Dominican Republic Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
43.5712	2.6135	32.2692	1.3680

2.1.3 Haiti

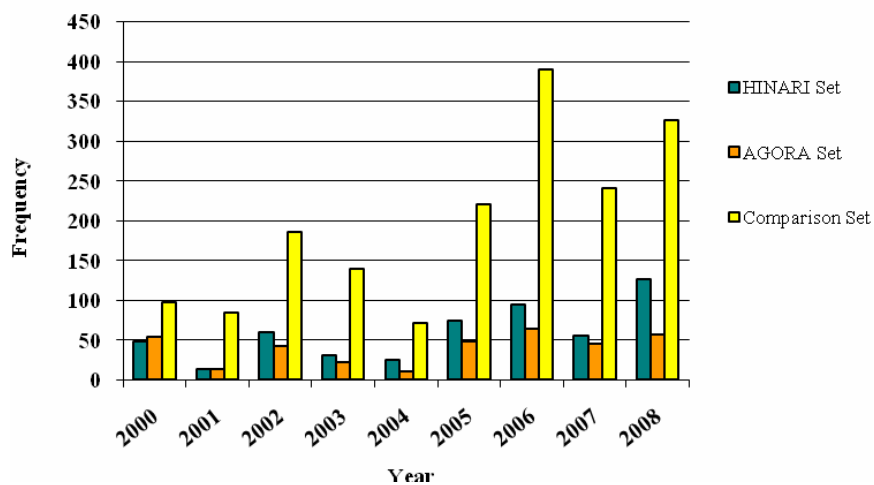


Figure 111. Frequency of Citations Made by Haiti Researchers

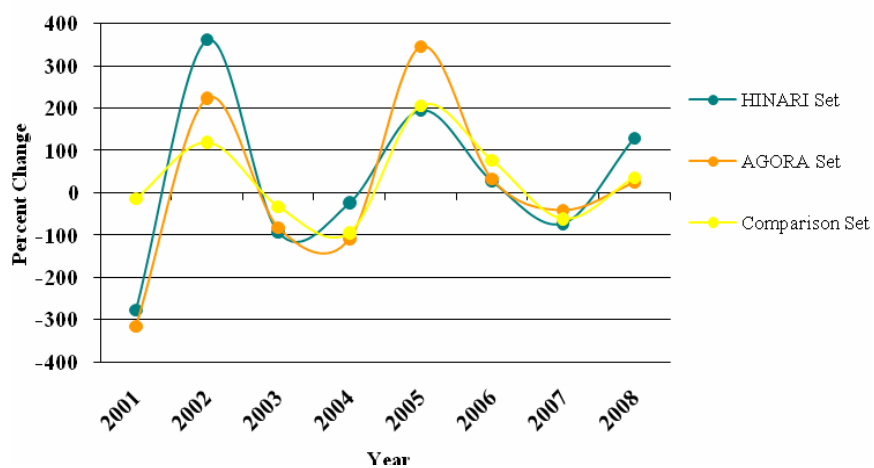


Figure 113. Percent Change in Frequency of Citations Made by Haiti Researchers

Table 61. Average Percent Change in Frequency of Citations Made by Haiti Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
-15.1088	1.7147	108.6305	-19.6728

2.1.4 Jamaica

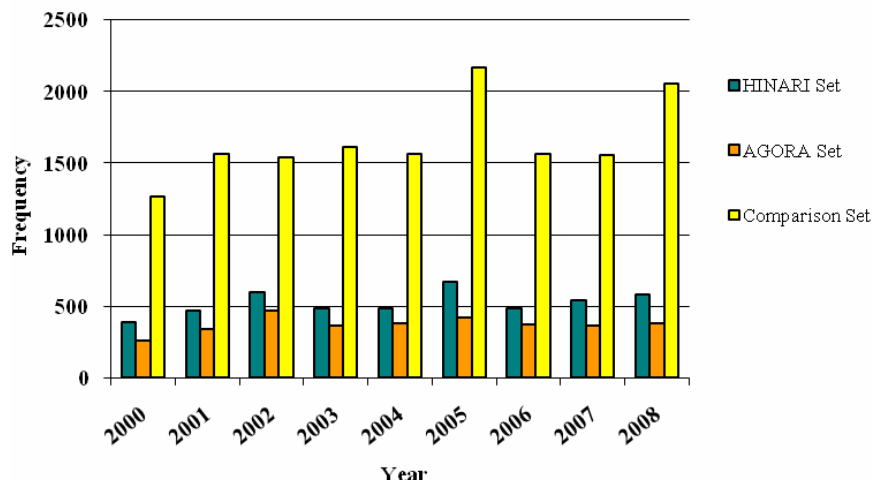


Figure 113. Frequency of Citations Made by Jamaica Researchers

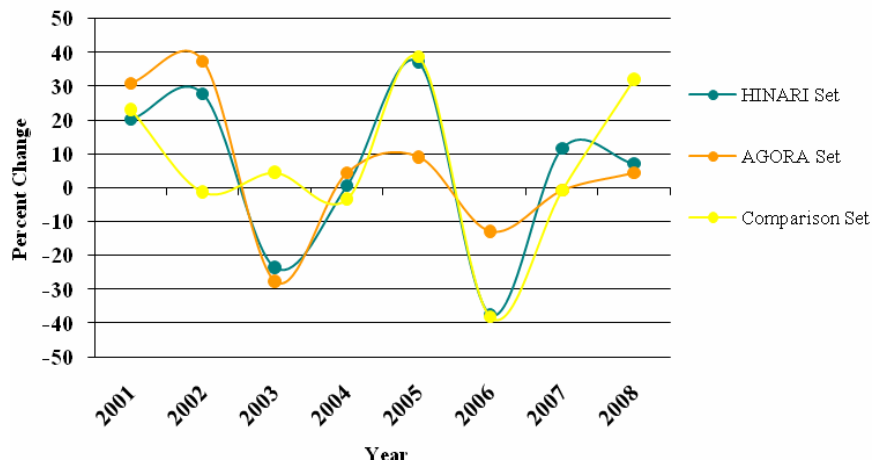


Figure 115. Percent Change in Frequency of Citations Made by Jamaica Researchers

Table 62. Average Percent Change in Frequency of Citations Made by Jamaica Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
-24.7607	-1.4239	-12.7212	-1.3167

2.2 Central America

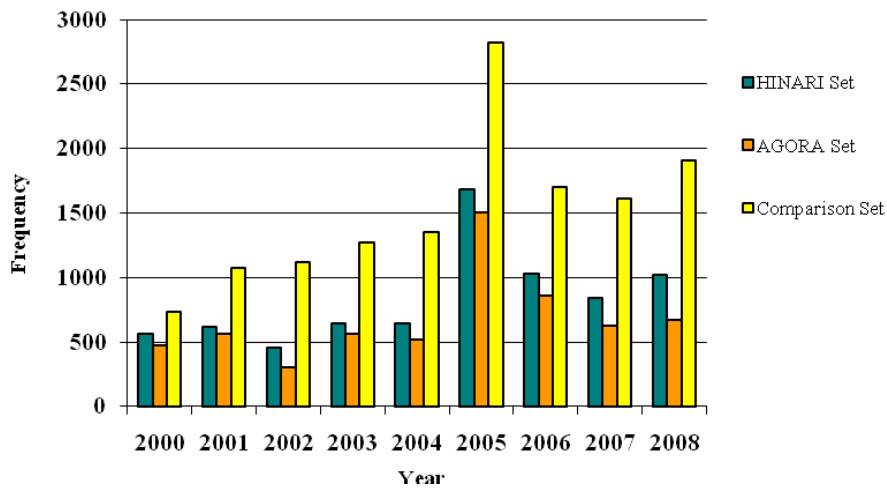


Figure 115. Frequency of Citations Made by Eligible Central American Researchers

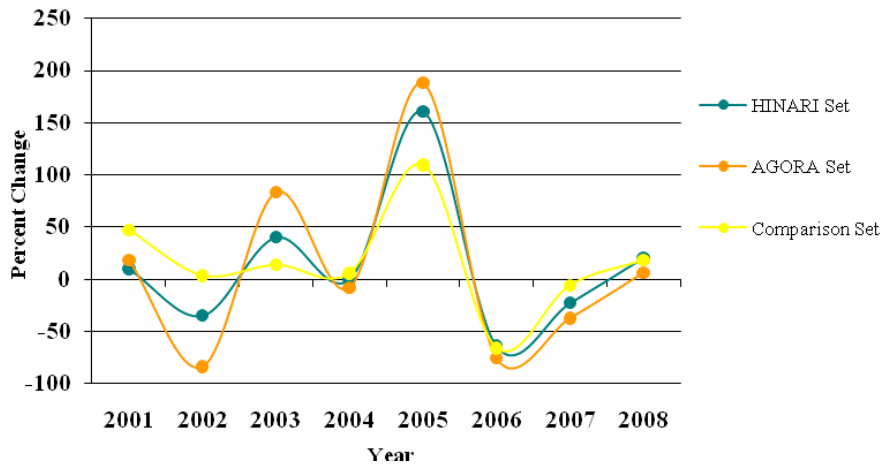


Figure 116. Percent Change in Frequency of Citations Made by Eligible Central American Researchers

Table 63. Average Percent Change in Frequency of Citations Made by Eligible Central American Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference
34.8524	-1.8737	8.8106	-4.3046

2.2.1 El Salvador

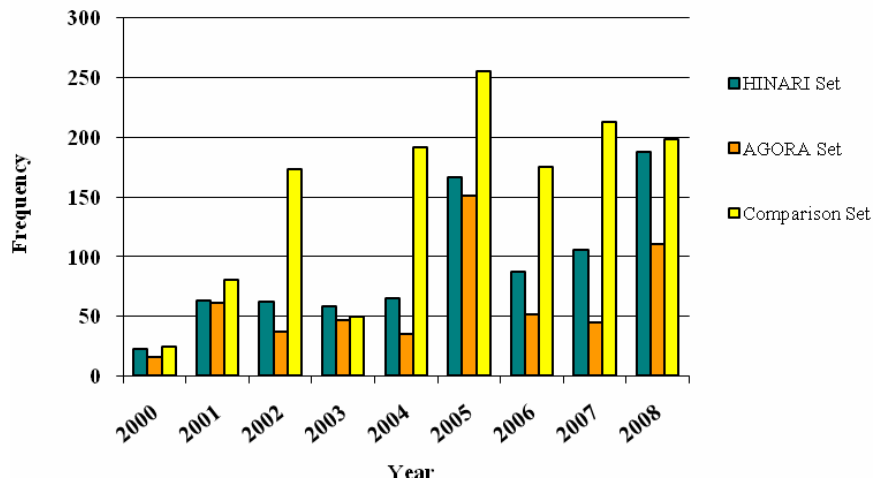


Figure 117. Frequency of Citations Made by El Salvador Researchers

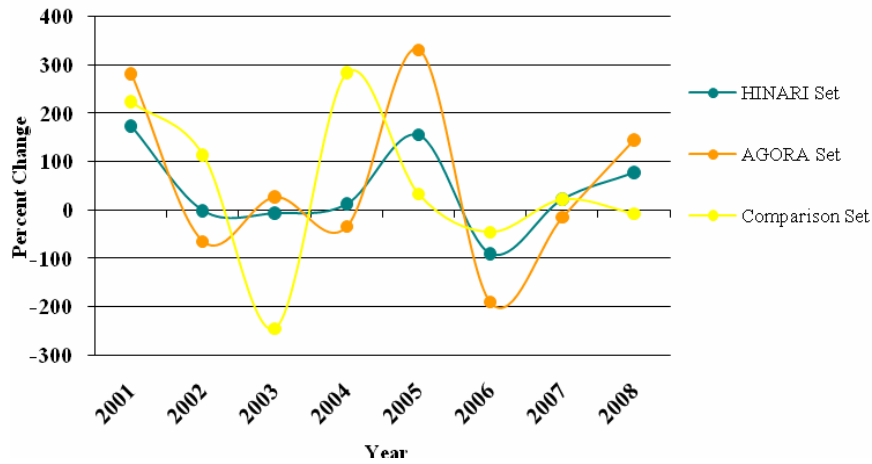


Figure 118. Percent Change in Frequency of Citations Made by El Salvador Researchers

Table 64. Average Percent Change in Frequency of Citations Made by El Salvador Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
-57.9917	-4.4459	-34.0080	12.7803

2.2.2 Guatemala

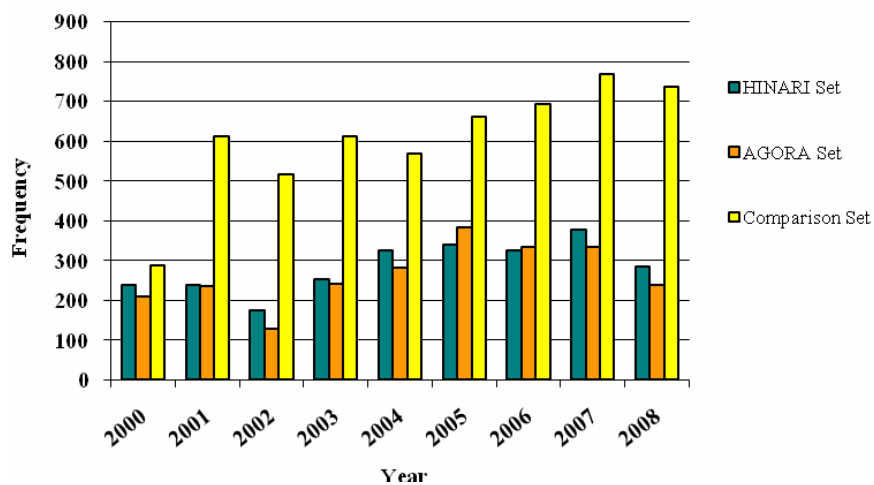


Figure 119. Frequency of Citations Made by Guatemala Researchers

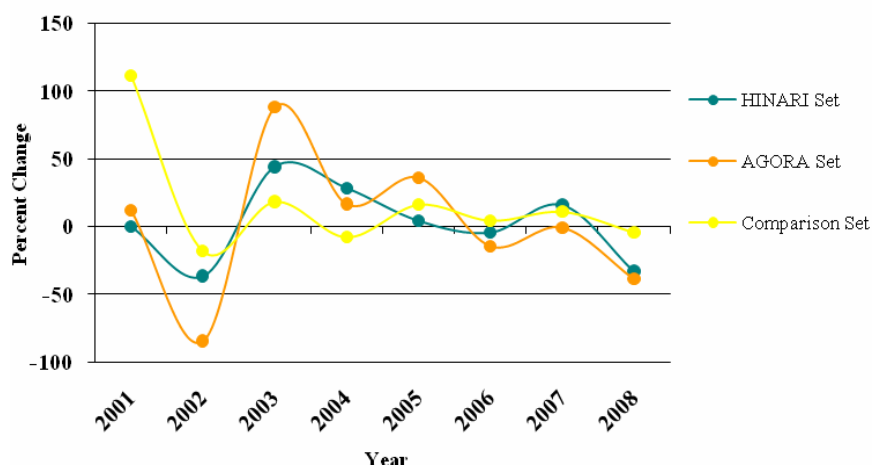


Figure 120. Percent Change in Frequency of Citations Made by Guatemala Researchers

Table 65. Average Percent Change in Frequency of Citations Made by Guatemala Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
27.4346	-14.0903	-5.4080	-14.6129

2.2.3 Honduras

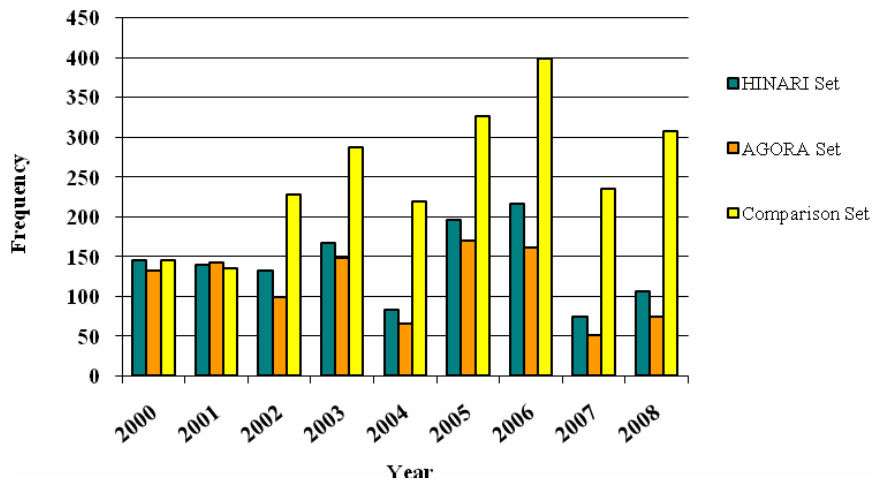


Figure 121. Frequency of Citations Made by Honduras Researchers

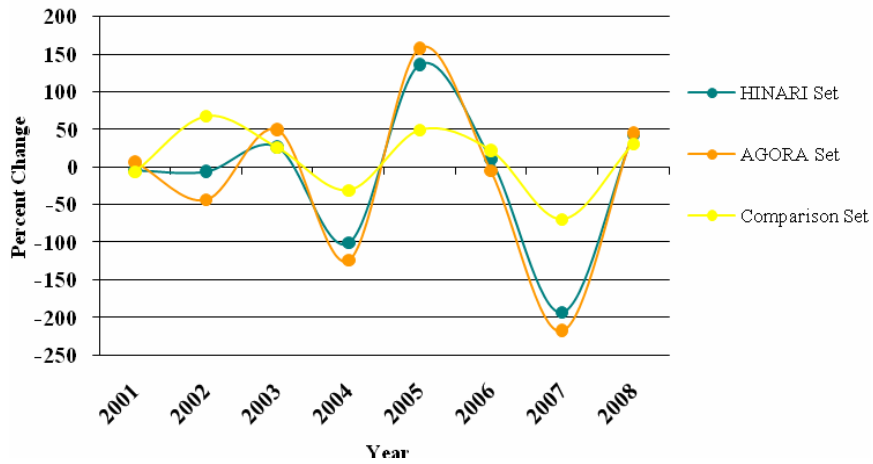


Figure 123. Percent Change in Frequency of Citations Made by Honduras Researchers

Table 66. Average Percent Change in Frequency of Citations Made by Honduras Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
-7.7986	-22.0272	-33.1066	-27.4209

2.2.4 Nicaragua

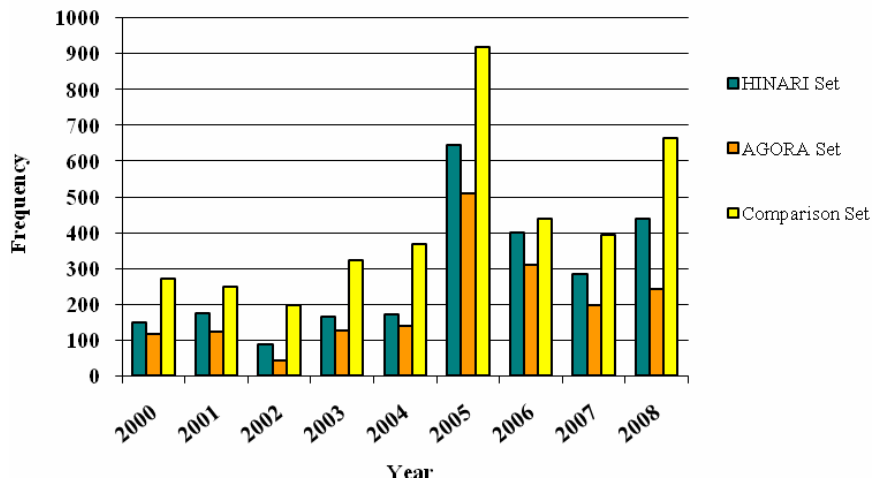


Figure 123. Frequency of Citations Made by Nicaragua Researchers

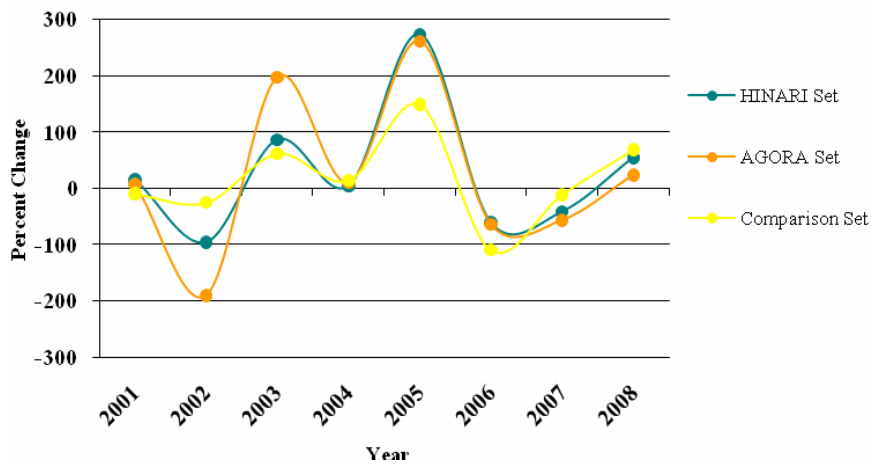


Figure 124. Percent Change in Frequency of Citations Made by Nicaragua Researchers

Table 67. Average Percent Change in Frequency of Citations Made by Nicaragua Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
92.8829	12.1737	30.2018	6.1294

2.3 South America

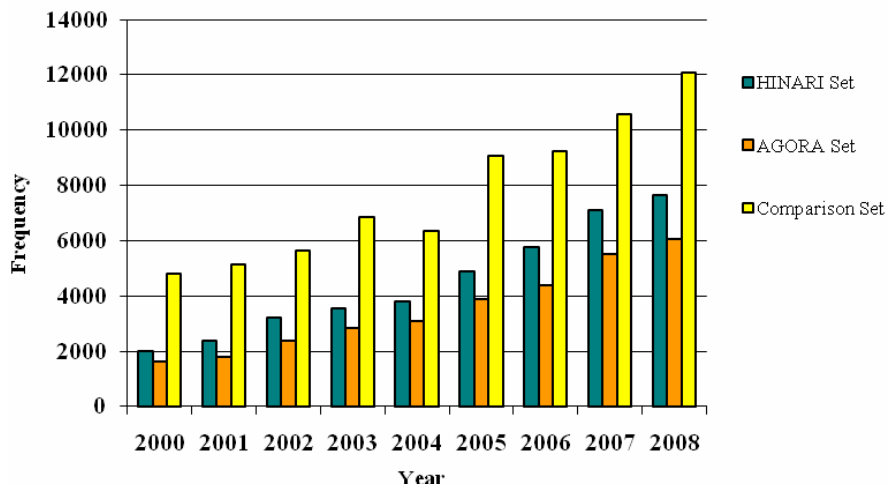


Figure 125. Frequency of Citations Made by Eligible South American Researchers

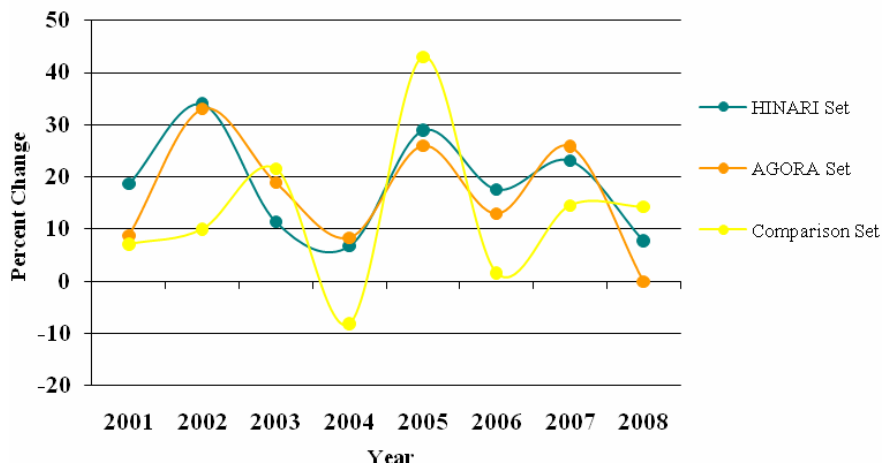


Figure 126. Percent Change in Frequency of Citations Made by Eligible South American Researchers

Table 68. Average Percent Change in Frequency of Citations Made by Eligible South American Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
-10.4050	5.5549	-3.5562	5.0589

2.3.1 Bolivia

Figure 127. Frequency of Citations Made by Bolivia Researchers

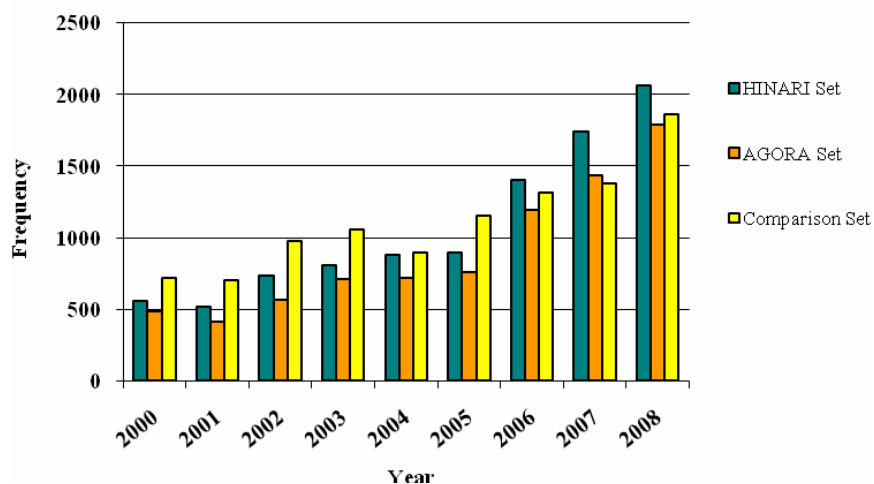


Figure 128. Percent Change in Frequency of Citations Made by Bolivia Researchers

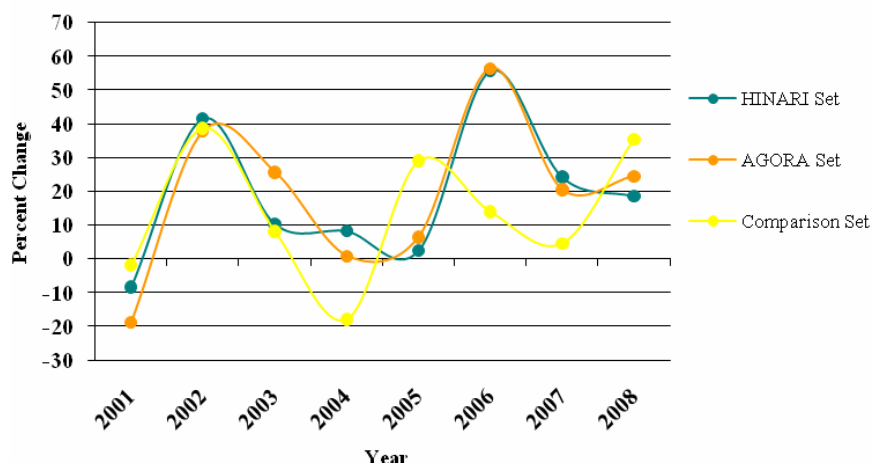


Table 69. Average Percent Change in Frequency of Citations Made by Bolivia Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
3.2892	5.3925	6.8265	5.4215

2.3.2 Ecuador

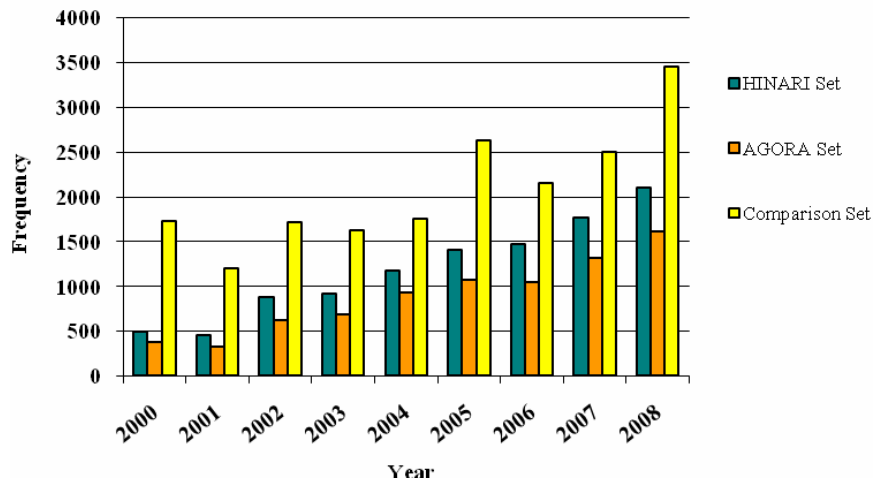


Figure 129. Frequency of Citations Made by Ecuador Researchers

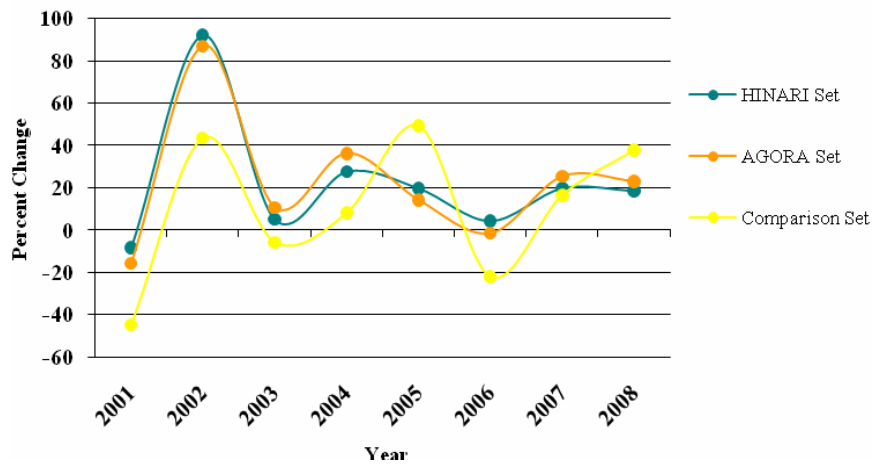


Figure 130. Percent Change in Frequency of Citations Made by Ecuador Researchers

Table 70. Average Percent Change in Frequency of Citations Made by Ecuador Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
-26.0974	12.0541	-7.9287	12.0705

2.3.3 Guyana

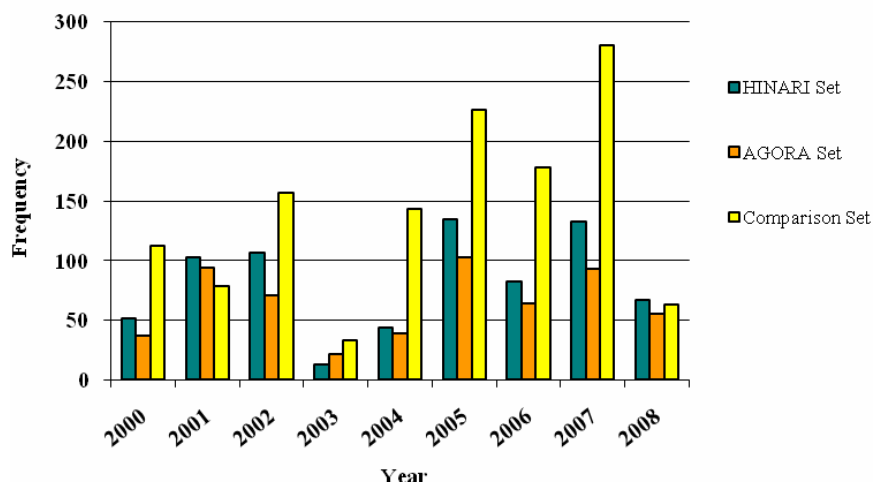


Figure 135. Frequency of Citations Made by Guyana Researchers

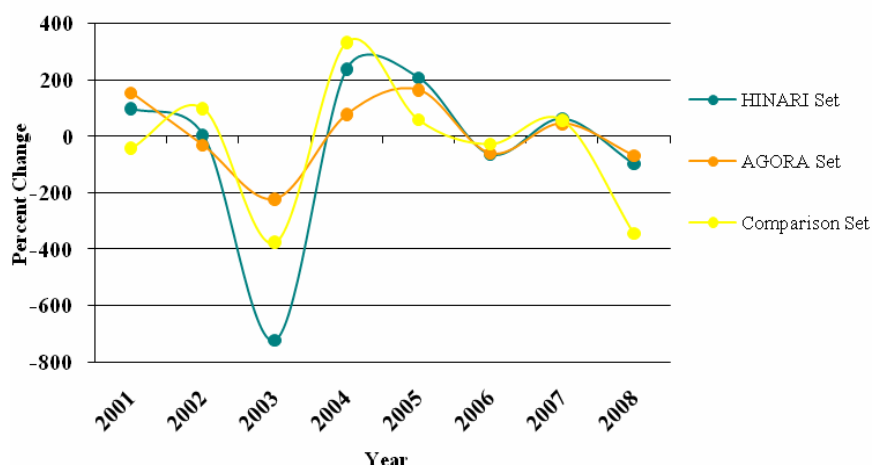


Figure 136. Percent Change in Frequency of Citations Made by Guyana Researchers

Table 71. Average Percent Change in Frequency of Citations Made by Guyana Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
-114.1042	-4.4070	65.0211	37.1399

2.3.4 Paraguay

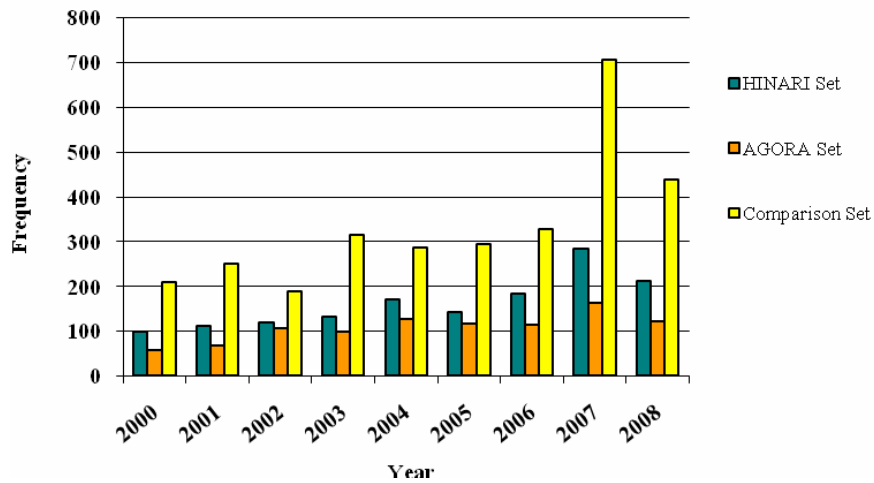


Figure 133. Frequency of Citations Made by Paraguay Researchers

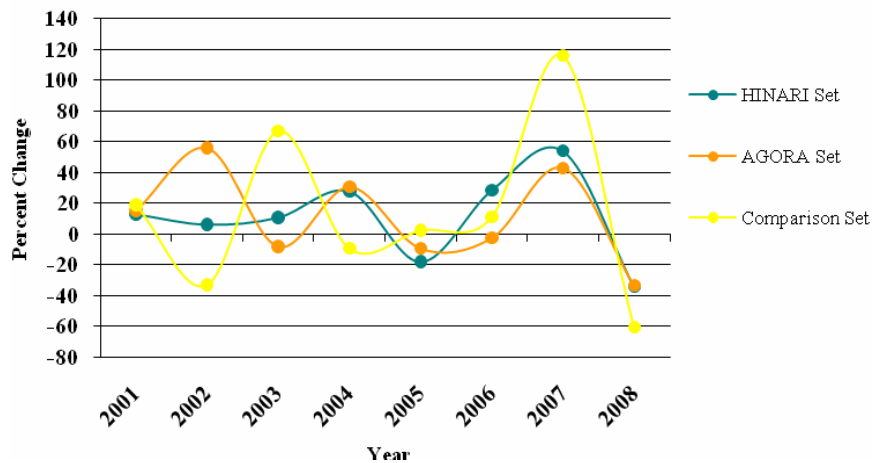


Figure 135. Percent Change in Frequency of Citations Made by Paraguay Researchers

Table 72. Average Percent Change in Frequency of Citations Made by Paraguay Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
1.8509	-3.0680	-15.4001	-2.6875

2.3.5 Peru

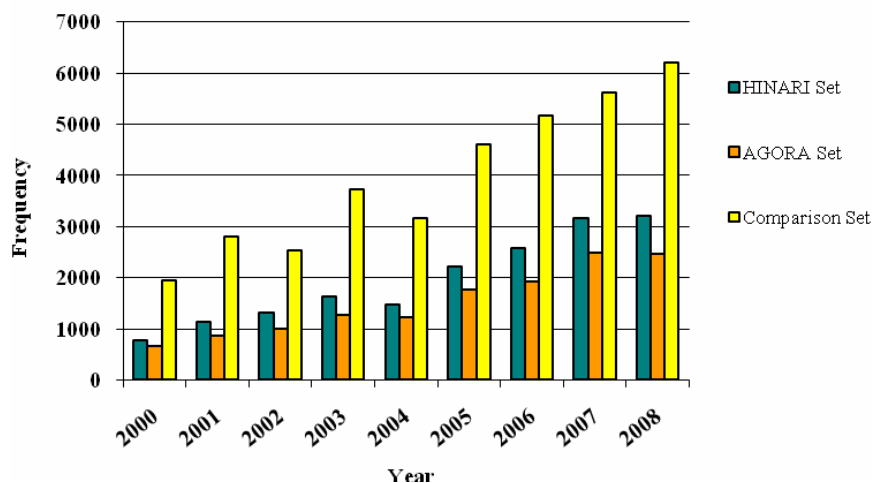


Figure 135. Frequency of Citations Made by Peru Researchers

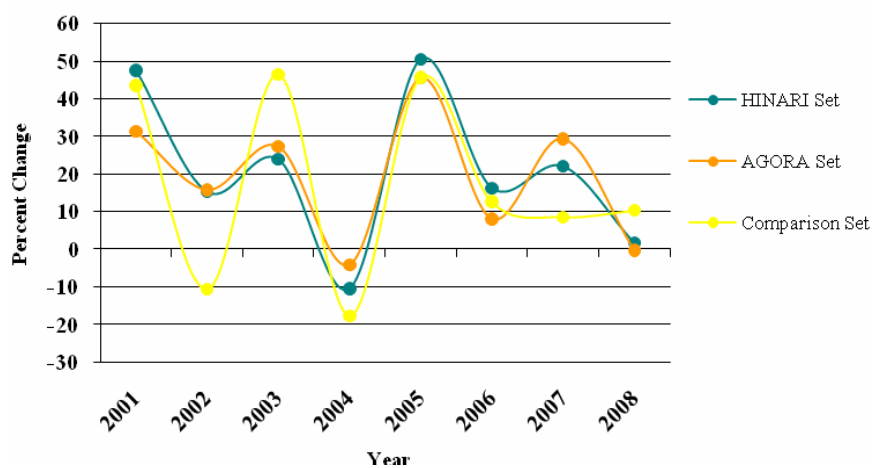


Figure 136. Percent Change in Frequency of Citations Made by Peru Researchers

Table 73. Average Percent Change in Frequency of Citations Made by Peru Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
-14.0929	3.4846	-9.1342	1.7789

2.3.6 Suriname

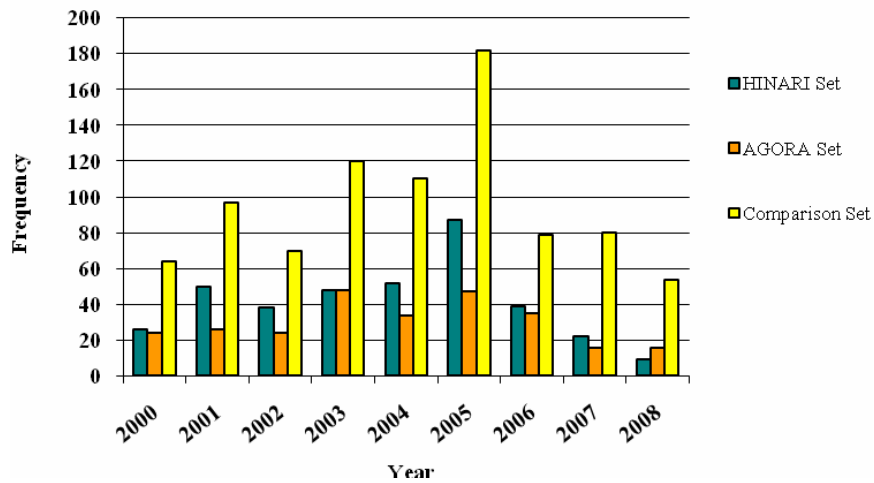


Figure 137. Frequency of Citations Made by Suriname Researchers

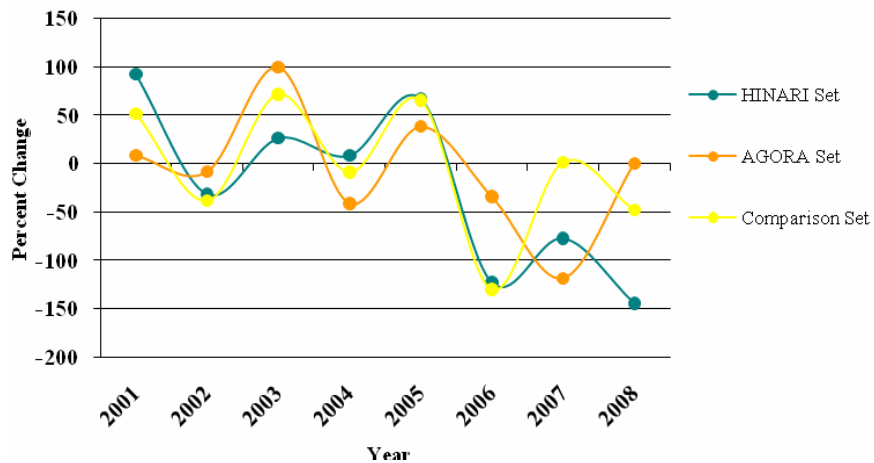


Figure 138. Percent Change in Frequency of Citations Made by Suriname Researchers

Table 74. Average Percent Change in Frequency of Citations Made by Suriname Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
-70.8373	-18.2037	-64.5287	-2.4373

3.0 Asia

Table 75. Average Percent Change in Citations to HINARI Made by Eligible Asian Researchers

	HINARI Average 2001- 2002	HINARI Average 2003- 2008	HINARI Change	HINARI Average 2001- 2008	Comparison Average 2001-2008	HINARI- Comparison Difference
Central Asia	5.1766	20.7327	15.5561	16.8437	13.0627	3.7810
Eastern Asia	1.5280	32.4258	30.8977	24.7013	16.3953	8.3060
South-eastern Asia	15.2673	11.6943	-3.5730	12.5875	3.8753	8.7123
Southern Asian	18.8038	19.2430	0.4392	19.1332	13.7530	5.3802
Western Asia	7.9281	13.6677	5.7396	12.2328	8.9356	3.2973

Table 75 shows sub-regional variation with respect to the average percent change in frequency before and after the initiation of the program, with four sub-regions demonstrating positive change and one demonstrating negative change. For the entire period of the study, all five regions reveal a greater average annual percent change in frequency to the HINARI set than to the Comparison set.

Table 76. Average Percent Change in Citations to AGORA Made by Eligible Asian Researchers

	AGORA Average 2001- 2003	AGORA Average 2004- 2008	AGORA Change	AGORA Average 2001- 2008	Comparison Average 2001-2008	AGORA- Comparison Difference
Central Asia	18.9437	17.2014	-1.7423	17.8548	13.0627	4.7921
Eastern Asia	28.7465	16.5107	-12.2358	21.0991	16.3953	4.7038
South-eastern Asia	28.9295	-0.2416	-29.1712	10.6976	3.8753	6.8223
South Asian	15.3796	18.5451	3.1656	17.3580	13.7530	3.6051
Western Asia	13.4056	9.8914	-3.5142	11.2092	8.9356	2.2736

Table 76 demonstrates sub-regional variation with respect to the average annual percent change in frequency of citations before and after the initiation of the AGORA program, with four sub-regions demonstrating negative change and one demonstrating positive change. For the entire period of the study, all five sub-regions reveal a greater average annual percent change in frequency of citations to the AGORA set than to the Comparison set.

Table 77. Results Summary for Eligible Asian Researchers

	Central Asia	Eastern Asia	South-eastern Asia	Southern Asia	Western Asia
Q1: Has the frequency of citations to the HINARI set increased each year?	N	N	N	Y	N
Q2: Has the frequency of citations to the AGORA set increased each year?	N	N	N	Y	N
Q3: Has the frequency of citations to the Comparison set increased each year?	N	N	N	N	N
Q4: Has the percent change in frequency of citations to the HINARI set increased each year?	N	N	N	N	N
Q5: Has the percent change in frequency of citations to the AGORA set increased each year?	N	N	N	N	N
Q6: Has the percent change in frequency of citations to the Comparison set increased each year?	N	N	N	N	N
Q7: Is the average percent change in frequency of citations to the HINARI set from 2003-2008 greater than that from 2000-2002?	Y	Y	N	Y	Y
Q8: Is average percent change in frequency of citations to the HINARI 2000-2008 greater than that of the Comparison set?	Y	Y	Y	Y	Y
Q9: Is average percent change in frequency of citations to the AGORA set from 2004-2008 greater than that from 2000-2003?	N	N	N	Y	N
Q10: Is average percent change in citations to the AGORA 2000-2008 greater than that to the Comparison set?	Y	Y	Y	Y	Y
Q11: Is there regional variation with respect to the frequency of and percent change in frequency of citations to the HINARI set?	Y	N	Y	Y	Y

	Central Asia	Eastern Asia	South- eastern Asia	Southern Asia	Western Asia
Q12: Is there regional variation with respect to the frequency of and percent change in frequency of citations to the AGORA set?	Y	N	Y	Y	Y

3.1 Central Asia

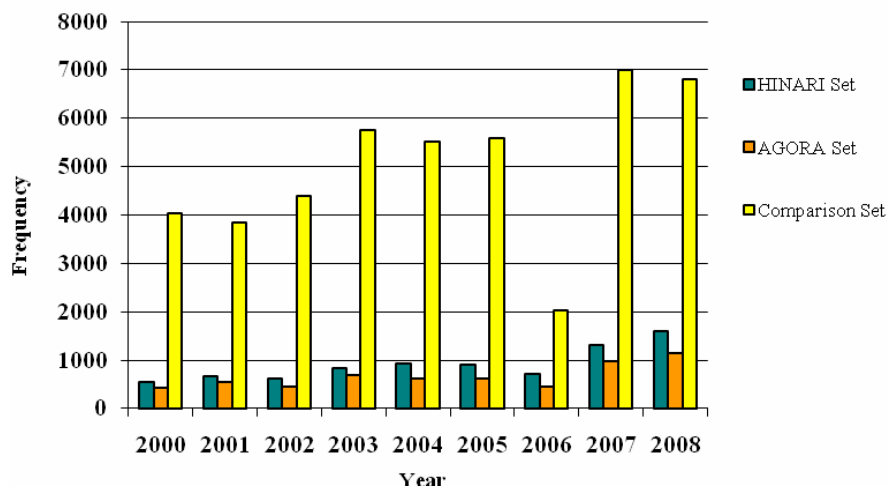


Figure 141. Frequency of Citations Made by Eligible Central Asian Researchers

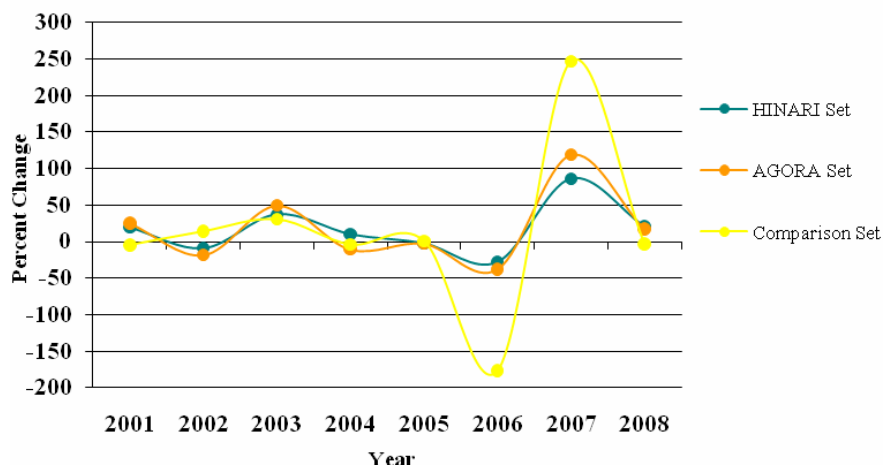


Figure 142. Percent Change in Frequency of Citations Made by Eligible Central Asian Researchers

Table 78. Average Percent Change in Frequency of Citations Made by Eligible Central Asian Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
15.5561	3.7810	-1.7423	4.7921

3.1.1 Kazakhstan

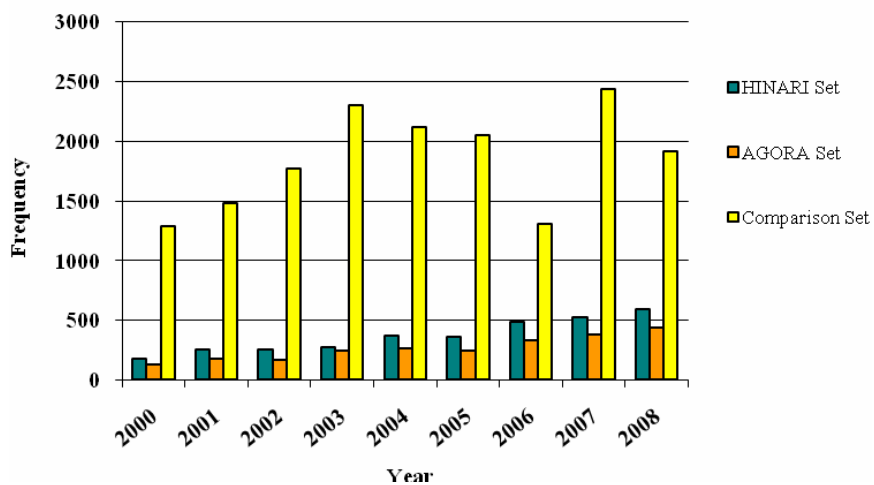


Figure 143. Frequency of Citations Made by Kazakhstan Researchers

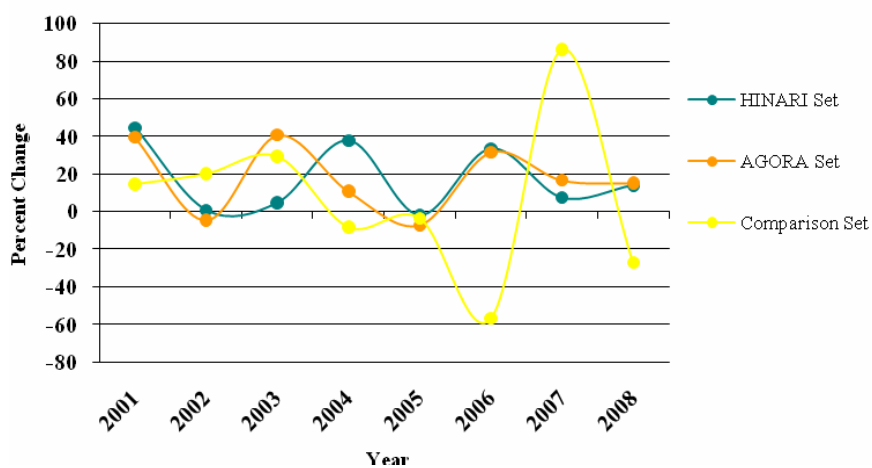


Figure 144. Percent Change in Frequency of Citations Made by Kazakhstan Researchers

Table 79. Average Percent Change in Frequency of Citations Made by Kazakhstan Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
-6.8260	10.7552	-11.8007	10.9860

3.1.2 Kyrgyzstan

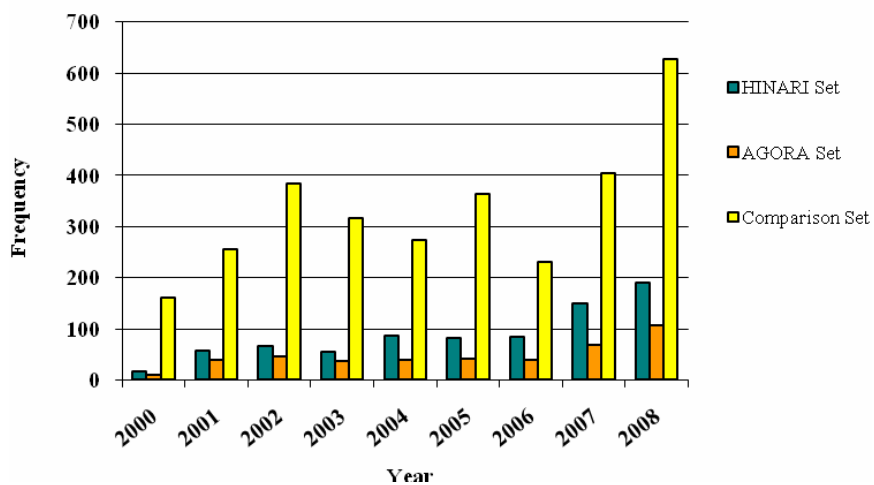


Figure 145. Frequency of Citations Made by Kyrgyzstan Researchers

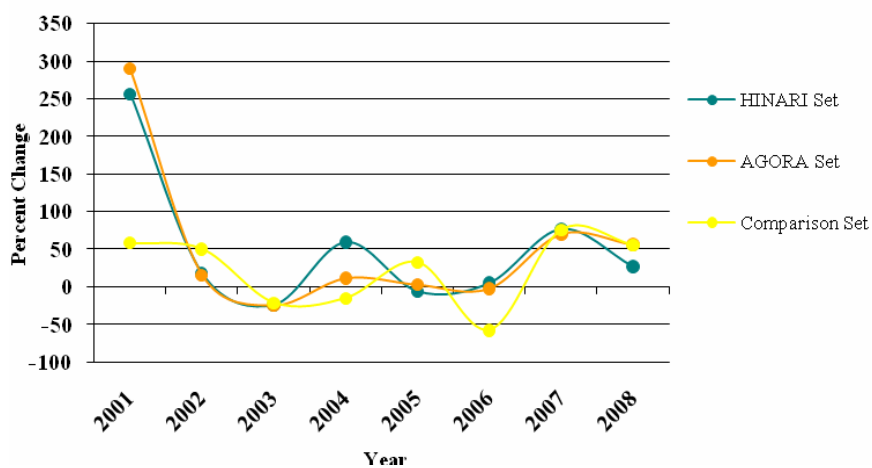


Figure 146. Percent Change in Frequency of Citations Made by Kyrgyzstan Researchers

Table 80. Average Percent Change in Frequency of Citations Made by Kyrgyzstan Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
-114.0490	29.2439	-66.0628	30.0559

3.1.3 Tajikistan

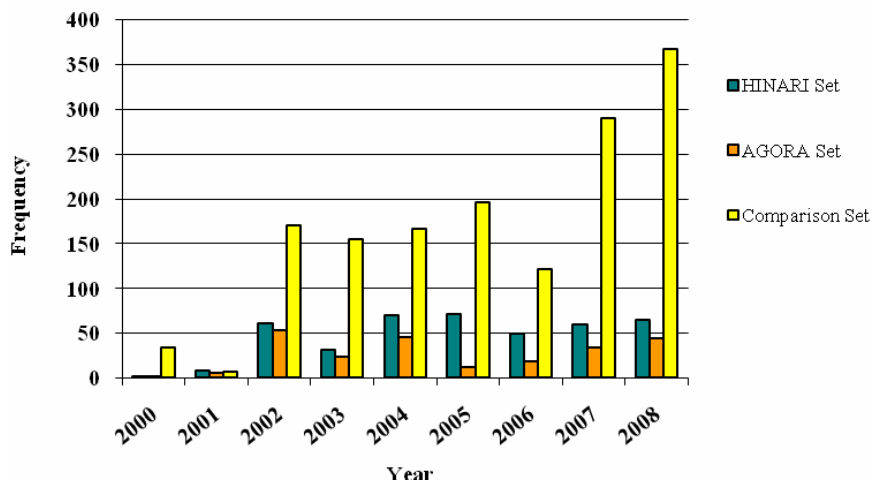


Figure 147. Frequency of Citations Made by Tajikistan Researchers

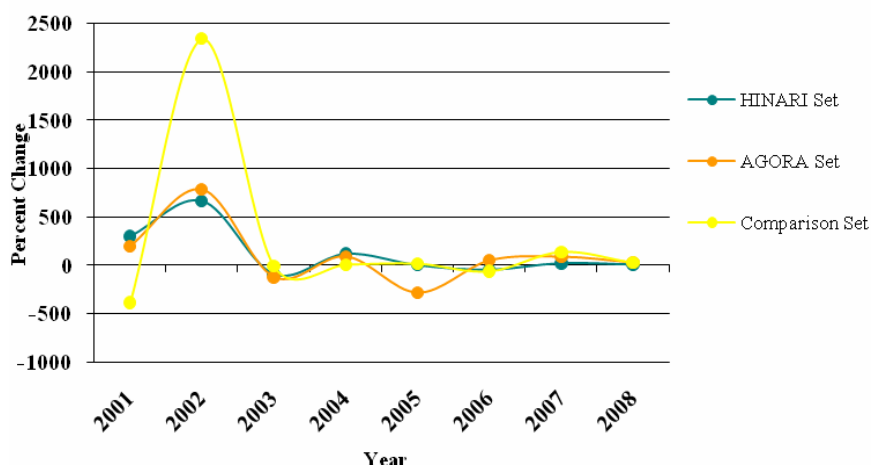


Figure 148. Percent Change in Frequency of Citations Made by Tajikistan Researchers

Table 81. Average Percent Change in Frequency of Citations Made by Tajikistan Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
-478.6770	-137.2784	-292.1732	-154.6289

3.1.4 Turkmenistan

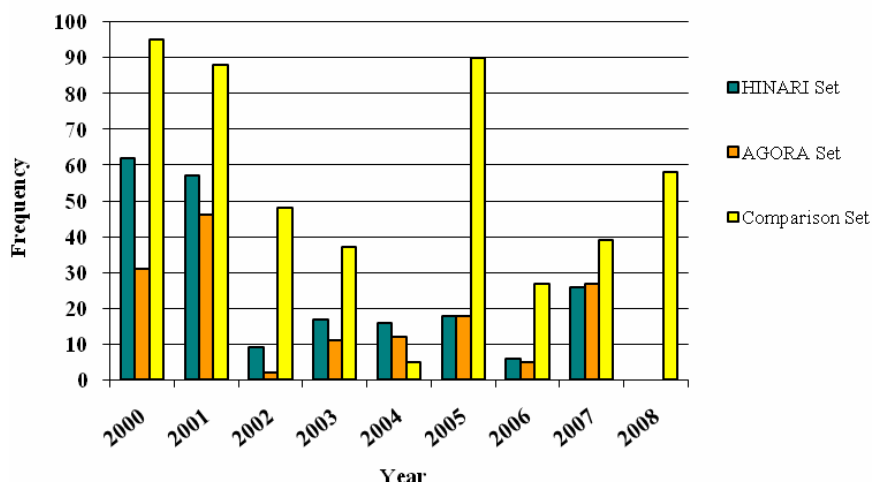


Figure 149. Frequency of Citations Made by Turkmenistan Researchers

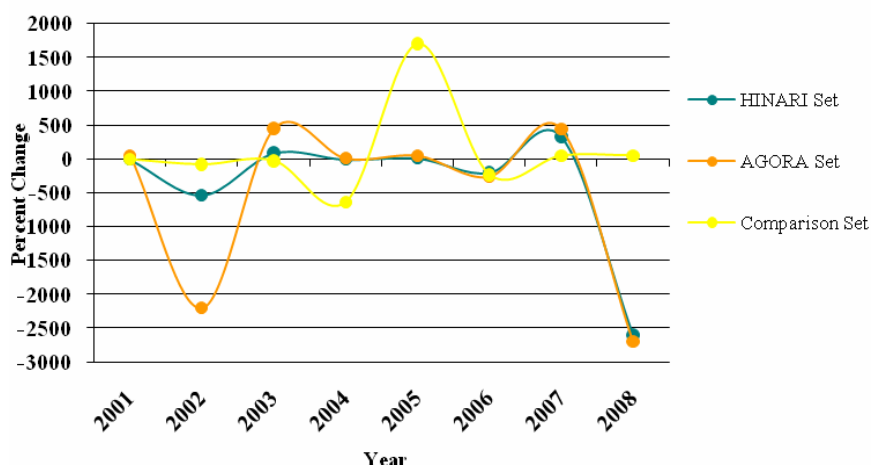


Figure 150. Percent Change in Frequency of Citations Made by Turkmenistan Researchers

Table 82. Average Percent Change in Frequency of Citations Made by Turkmenistan Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
-124.2020	-464.0556	75.0225	-620.1667

3.1.5 Uzbekistan

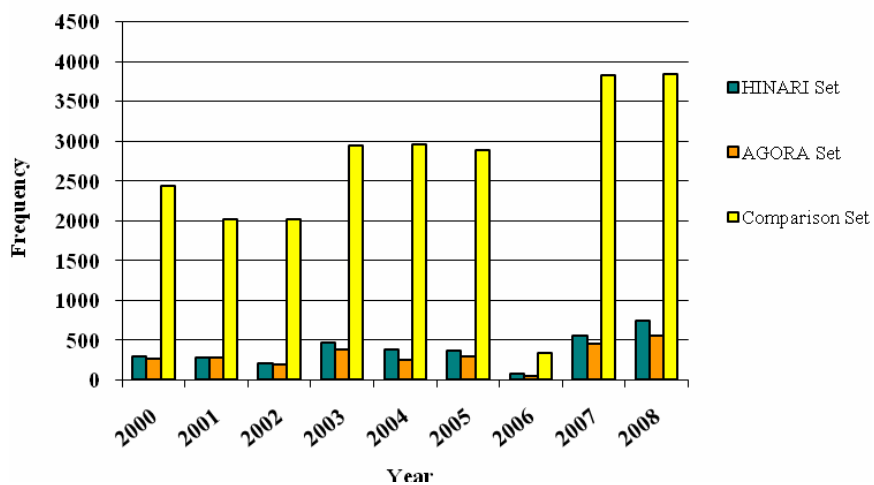


Figure 151. Frequency of Citations Made by Uzbekistan Researchers

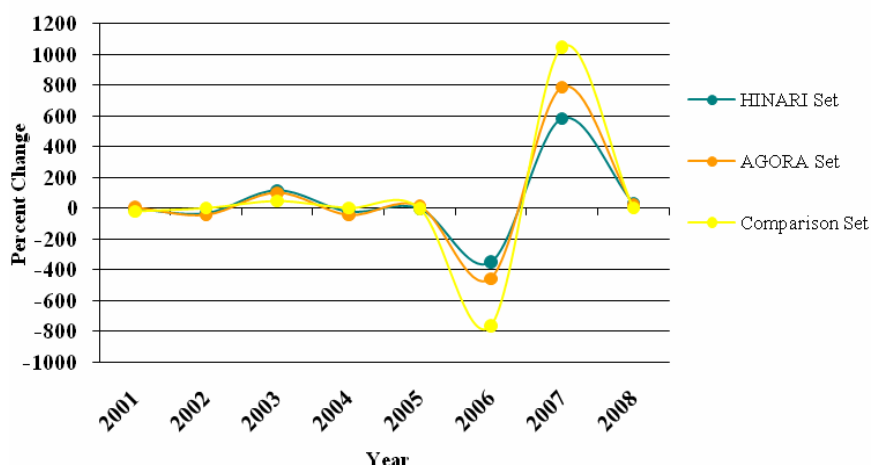


Figure 152. Percent Change in Frequency of Citations Made by Uzbekistan Researchers

Table 83. Average Percent Change in Frequency of Citations Made by Uzbekistan Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
77.8409	1.2705	43.1497	8.4165

3.2 Eastern Asia

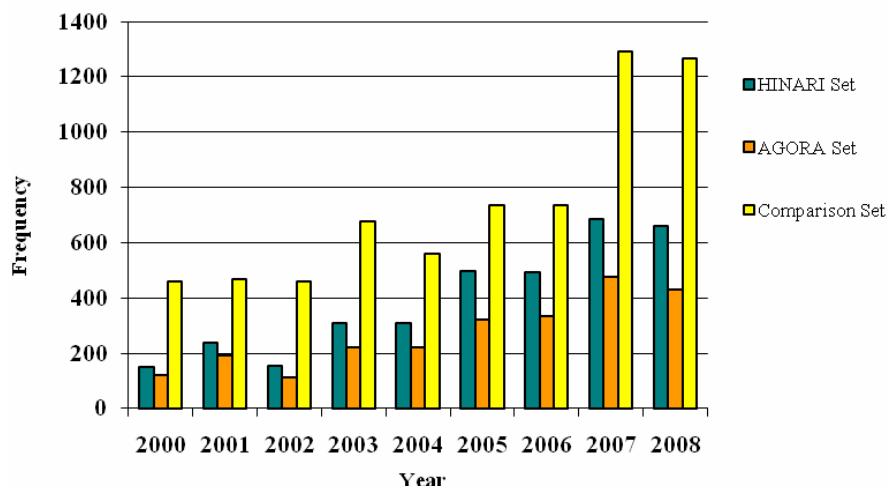


Figure 153. Frequency of Citations Made by Eligible Eastern Asian Researchers

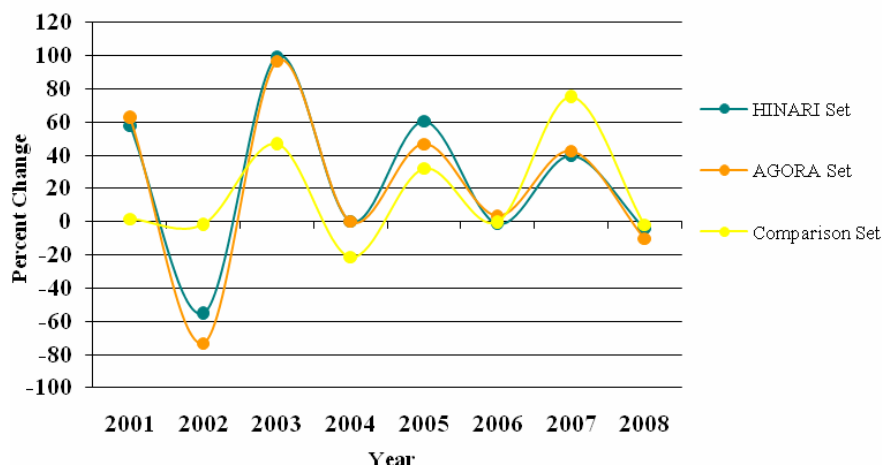


Figure 154. Percent Change in Frequency of Citations Made by Eligible Eastern Asian Researchers

Table 84. Average Percent Change in Frequency of Citations Made by Eligible Eastern Asian Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
30.8977	8.3060	-12.2358	4.7038

3.2.1 Mongolia

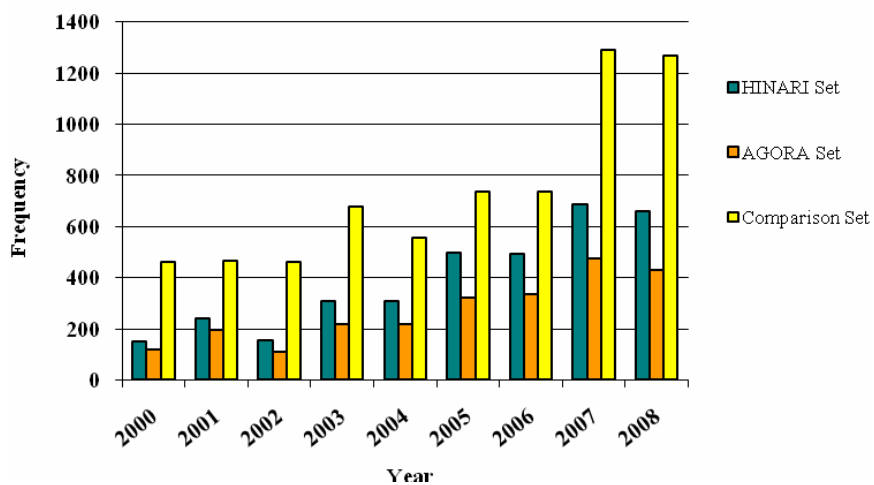


Figure 155. Frequency of Citations Made by Mongolia Researchers

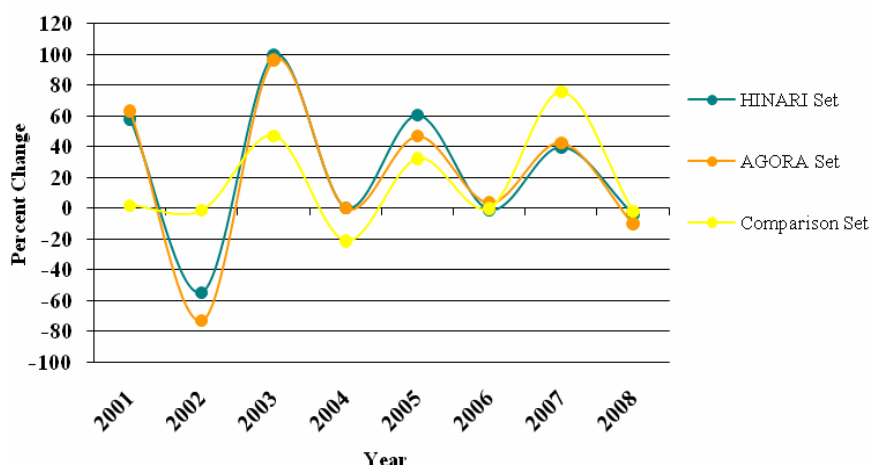


Figure 156. Percent Change in Frequency of Citations Made by Mongolia Researchers

Table 85. Average Percent Change in Frequency of Citations Made by Mongolia Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
30.8977	8.3060	-12.2358	4.7038

3.3 South-eastern Asia

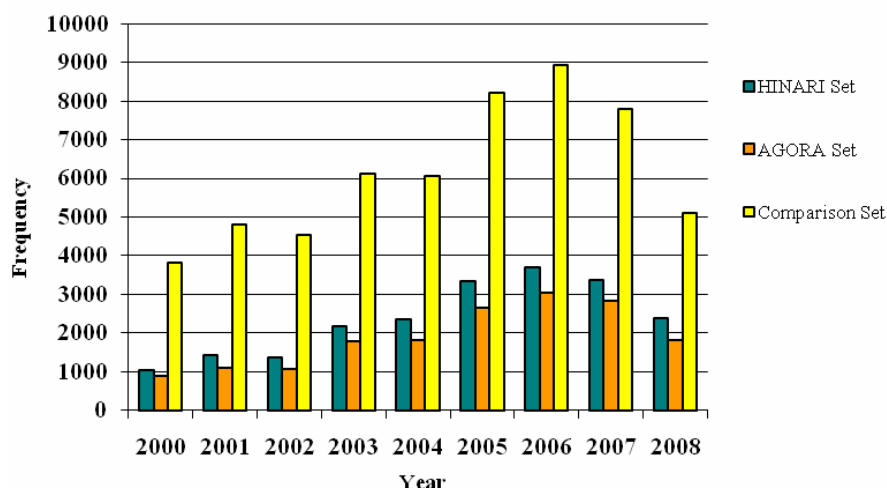


Figure 157. Frequency of Citations Made by Eligible South-eastern Asian Researchers

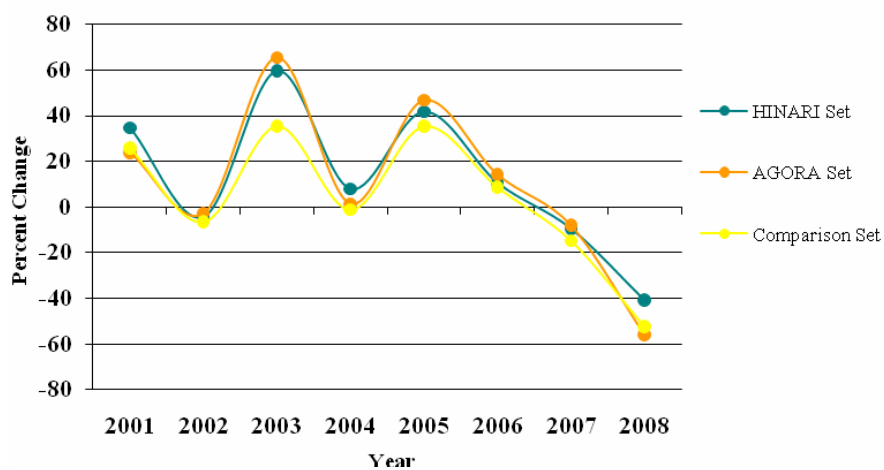


Figure 158. Percent Change in Frequency of Citations Made by Eligible South-eastern Asian Researchers

Table 86. Average Percent Change in Frequency of Citations Made by Eligible South-eastern Asian Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
-3.5730	8.7123	-29.1712	6.8223

3.3.1 Cambodia

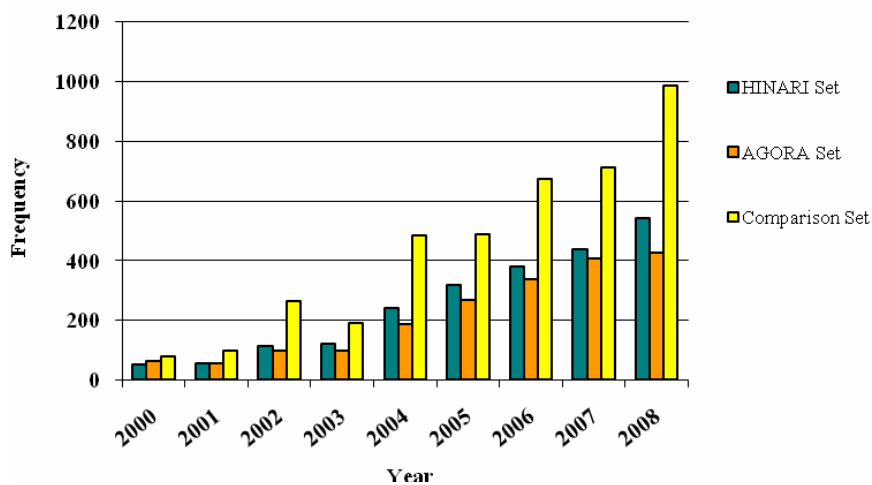


Figure 159. Frequency of Citations Made by Cambodia Researchers

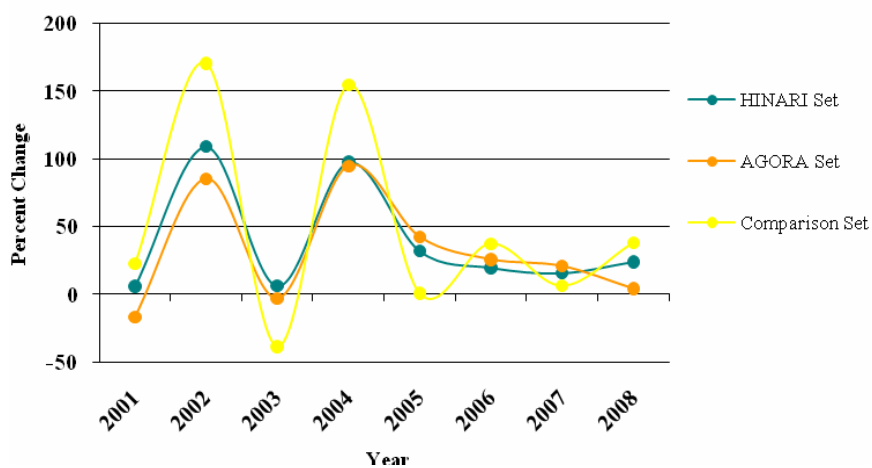


Figure 160. Percent Change in Frequency of Citations Made by Cambodia Researchers

Table 83. Average Percent Change in Frequency of Citations Made by Cambodia Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
-25.0102	-10.1852	15.7316	-17.2168

3.3.2 Laos

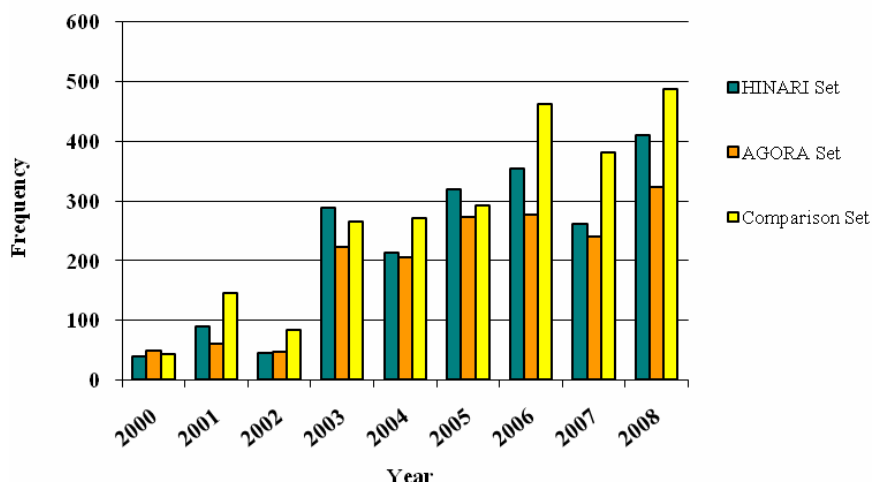


Figure 161. Frequency of Citations Made by Laos Researchers

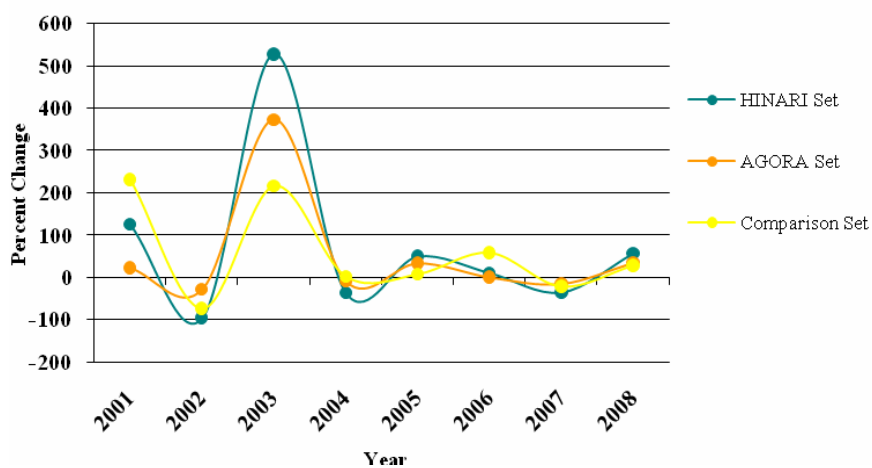


Figure 162. Percent Change in Frequency of Citations Made by Laos Researchers

Table 88. Average Percent Change in Frequency of Citations Made by Laos Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
81.1080	19.3618	-113.2408	-4.5420

3.3.3 Myanmar

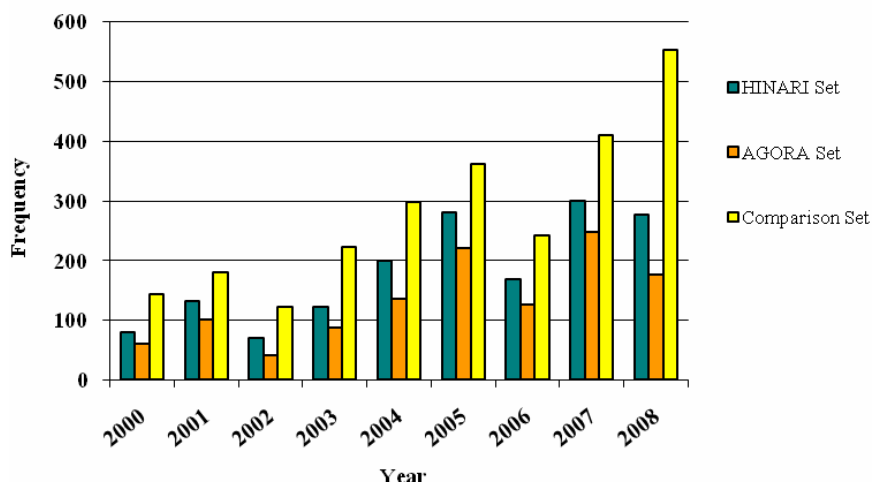


Figure 163. Frequency of Citations Made by Myanmar Researchers

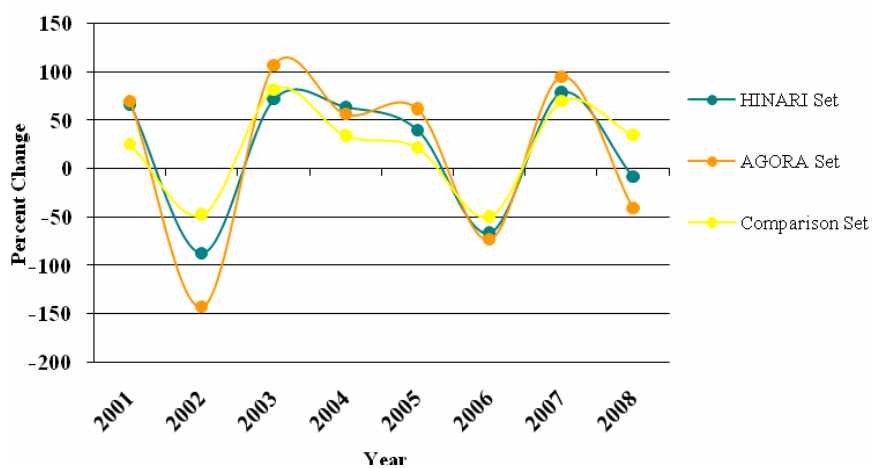


Figure 164. Percent Change in Frequency of Citations Made by Myanmar Researchers

Table 89. Average Percent Change in Frequency of Citations Made by Myanmar Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
40.4315	-1.4141	8.4164	-4.5119

3.3.4 Timor-Leste

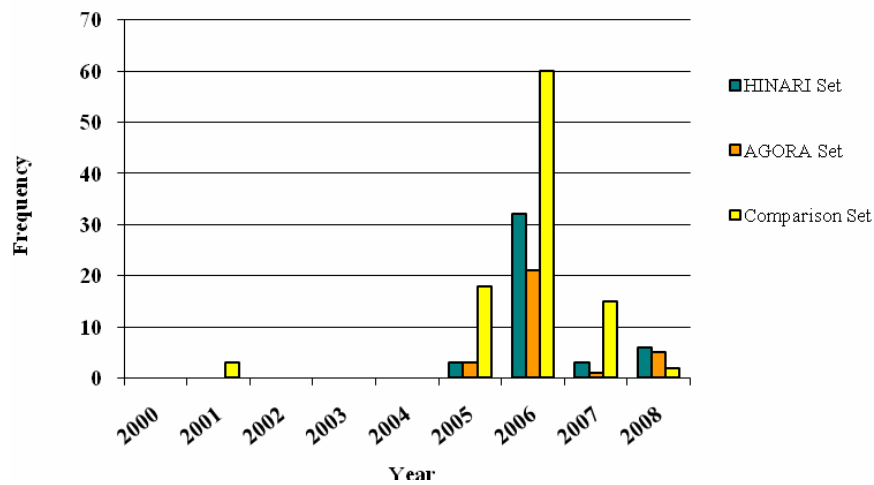


Figure 165. Frequency of Citations Made by Timor-Leste Researchers

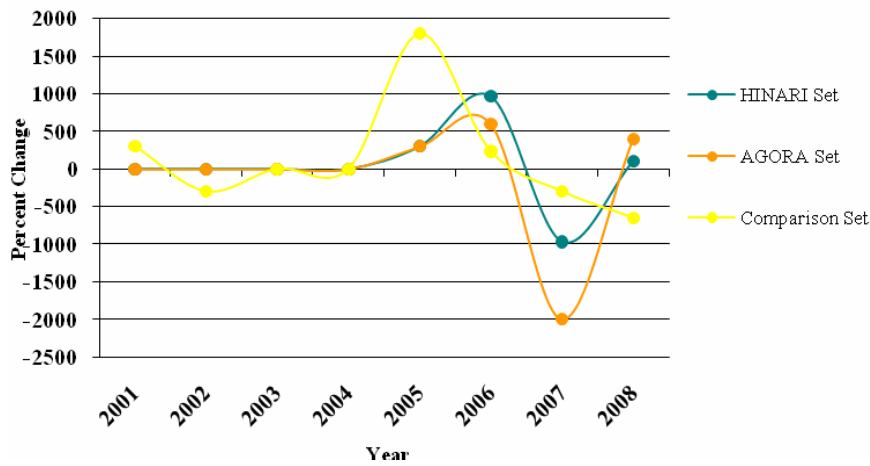


Figure 166. Percent Change in Frequency of Citations Made by Timor-Leste Researchers

Table 90. Average Percent Change in Frequency of Citations Made by Timor-Leste Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
66.6667	-85.4167	-140.0000	-222.9167

3.3.5 Viet Nam

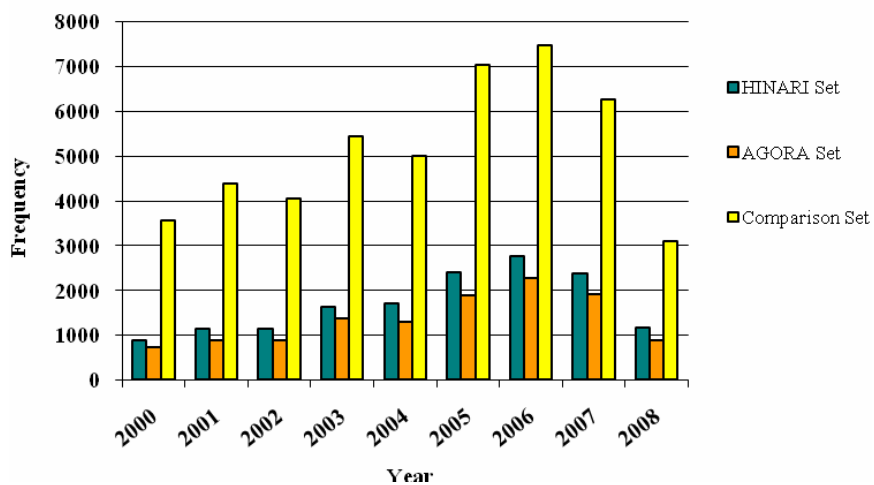


Figure 167. Frequency of Citations Made by Viet Nam Researchers

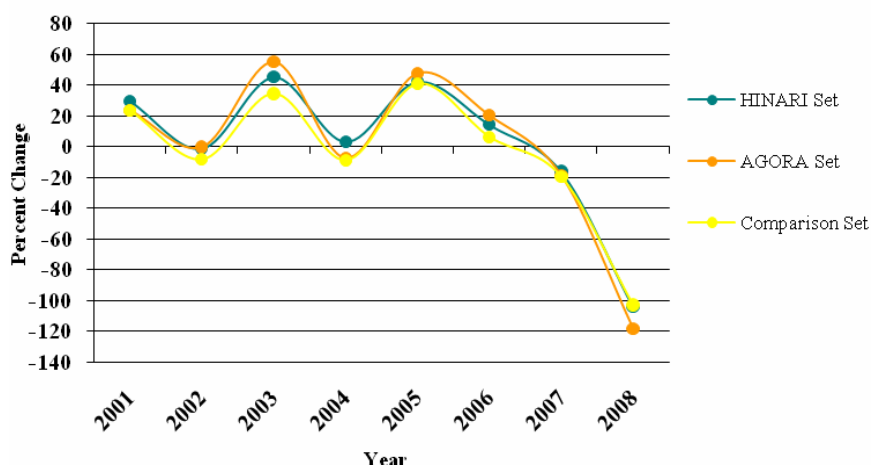


Figure 168. Percent Change in Frequency of Citations Made by Viet Nam Researchers

Table 91. Average Percent Change in Frequency of Citations Made by Viet Nam Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
-16.7883	6.0051	-41.4329	4.5894

3.3 Southern Asia

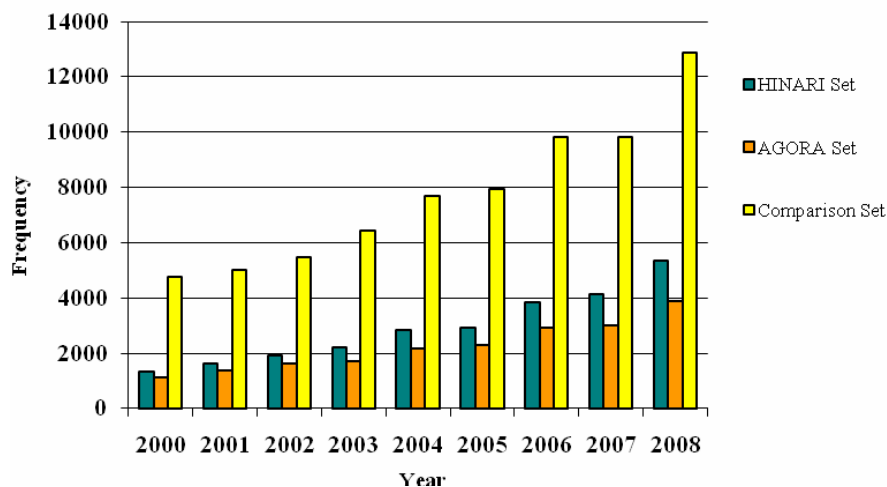


Figure 169. Frequency of Citations Made by Eligible Southern Asian Researchers

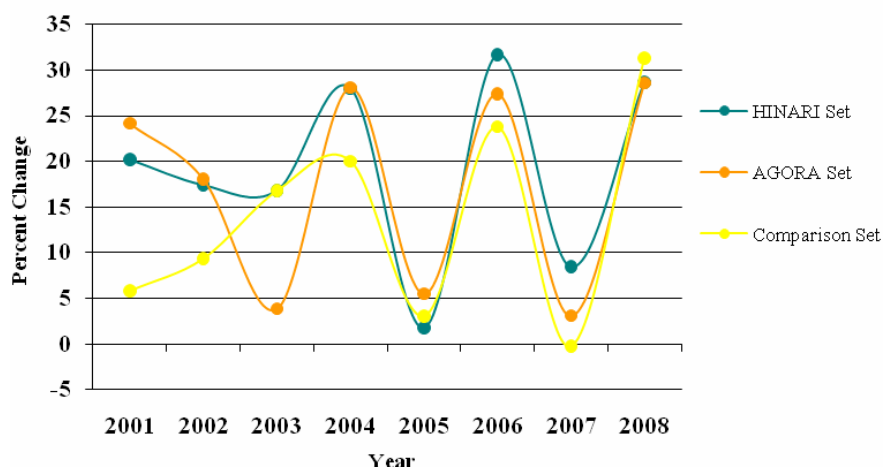


Figure 170. Percent Change in Frequency of Citations Made by Eligible Southern Asian Researchers

Table 92. Average Percent Change in Frequency of Citations Made by Eligible Southern Asian Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
0.4392	5.3802	3.1656	3.6051

3.4.1 Afghanistan

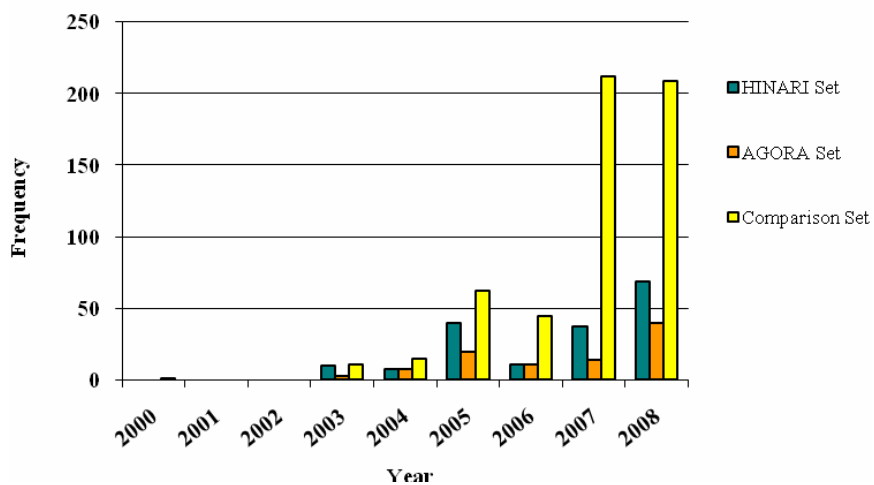


Figure 171. Frequency of Citations Made by Afghanistan Researchers

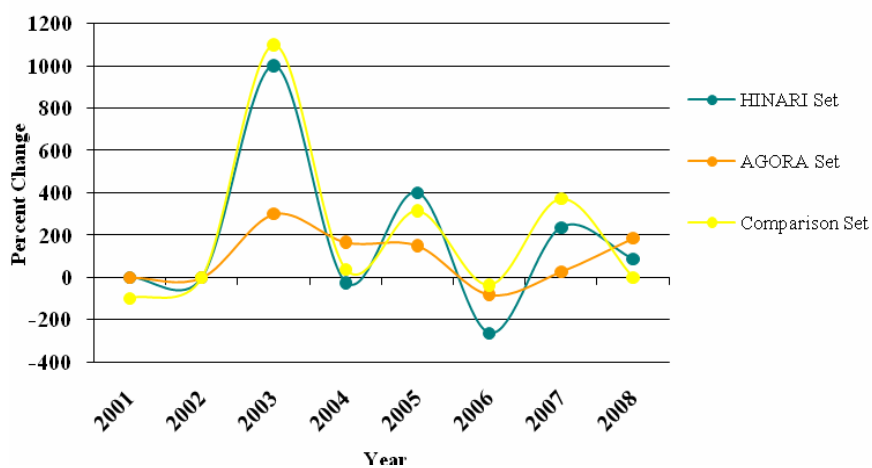


Figure 172. Percent Change in Frequency of Citations Made by Afghanistan Researchers

Table 93. Average Percent Change in Frequency of Citations Made by Afghanistan Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
239.0356	-30.9226	-10.4329	-116.7199

3.4.2 Bangladesh

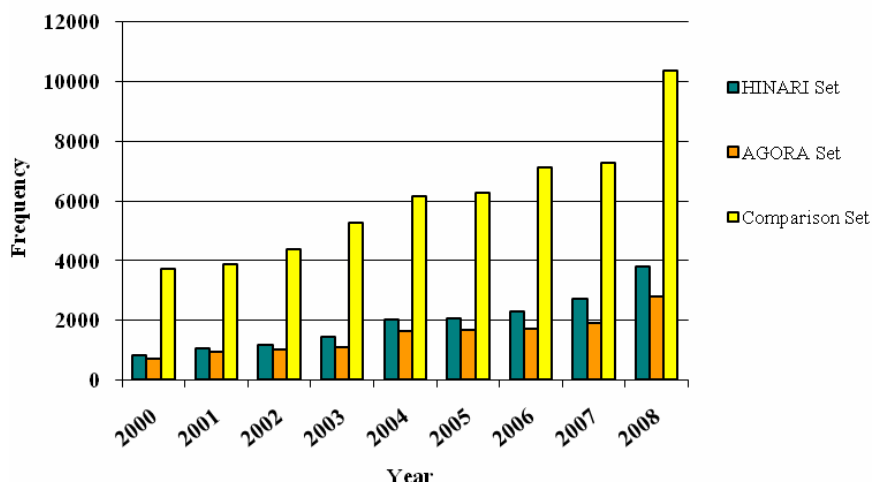


Figure 173. Frequency of Citations Made by Bangladesh Researchers

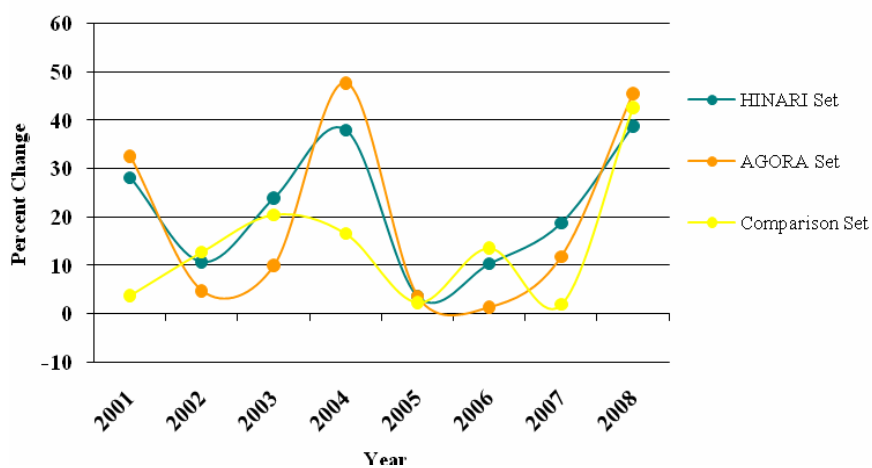


Figure 174. Percent Change in Frequency of Citations Made by Bangladesh Researchers

Table 94. Average Percent Change in Frequency of Citations Made by Bangladesh Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
2.8016	7.2734	6.2569	5.3895

3.4.3 Bhutan

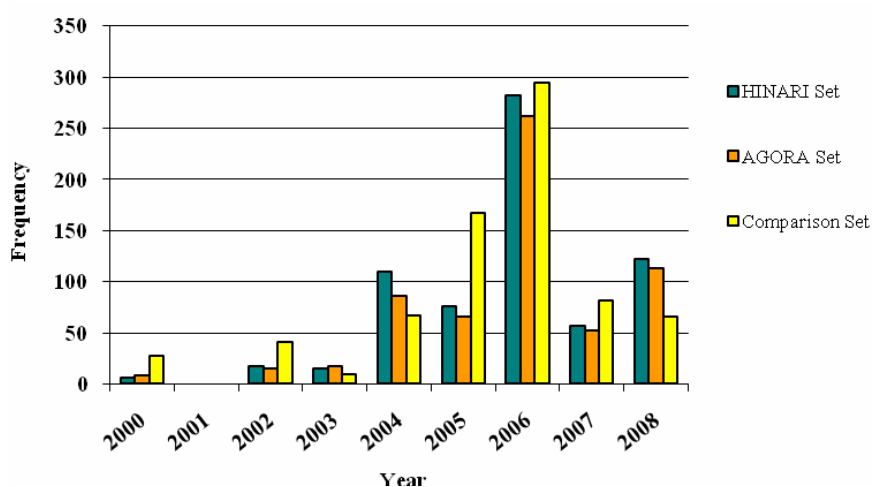


Figure 175. Frequency of Citations Made by Bhutan Researchers

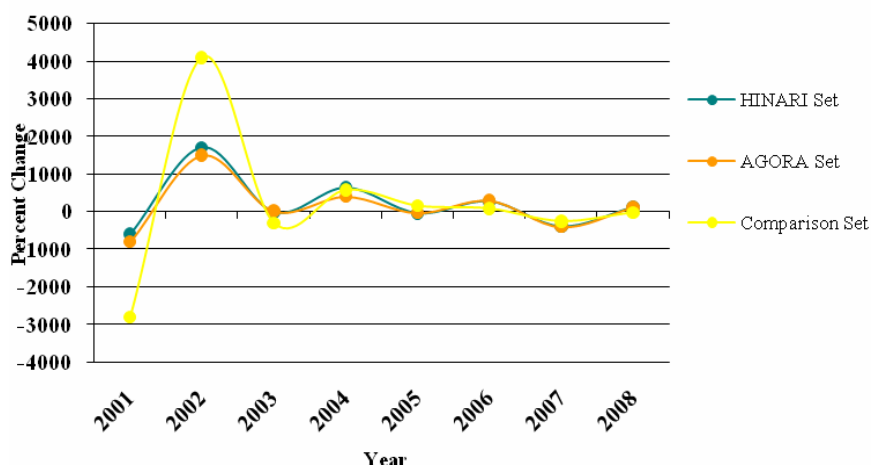


Figure 176. Percent Change in Frequency of Citations Made by Bhutan Researchers

Table 95. Average Percent Change in Frequency of Citations Made by Bhutan Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
-455.7310	20.3864	-160.5757	-50.3973

3.4.4 Maldives

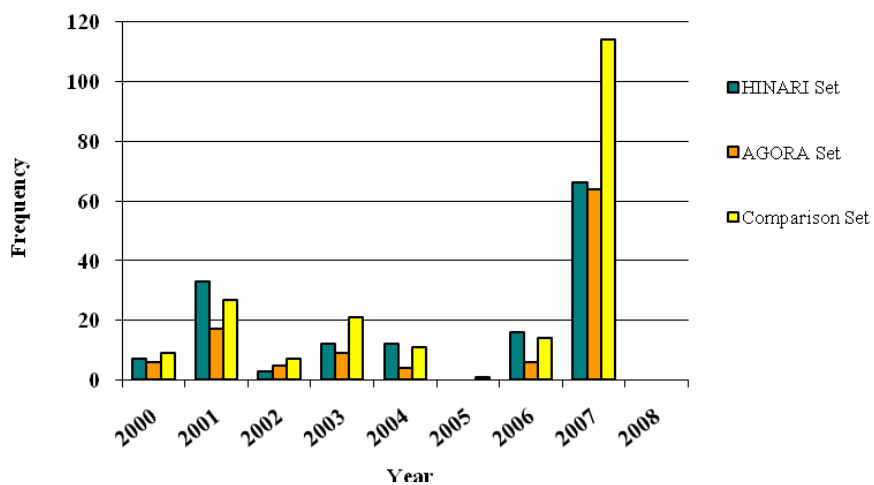


Figure 177. Frequency of Citations Made by Maldives Researchers

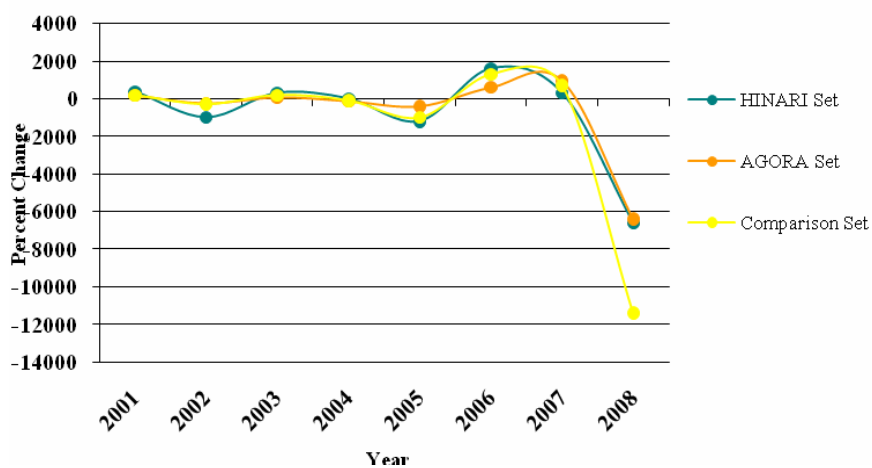


Figure 178. Percent Change in Frequency of Citations Made by Maldives Researchers

Table 96. Average Percent Change in Frequency of Citations Made by Maldives Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
-616.9643	518.2833	-1079.4444	628.4172

3.4.5 Nepal

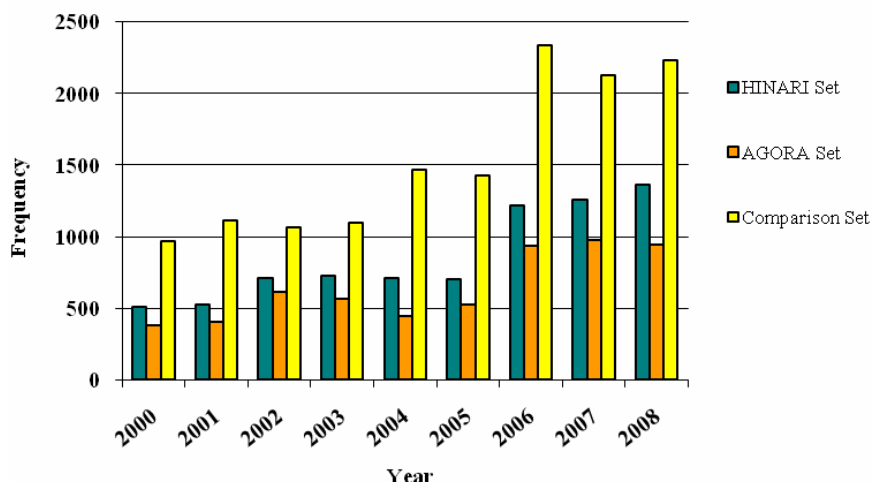


Figure 179. Frequency of Citations Made by Nepal Researchers

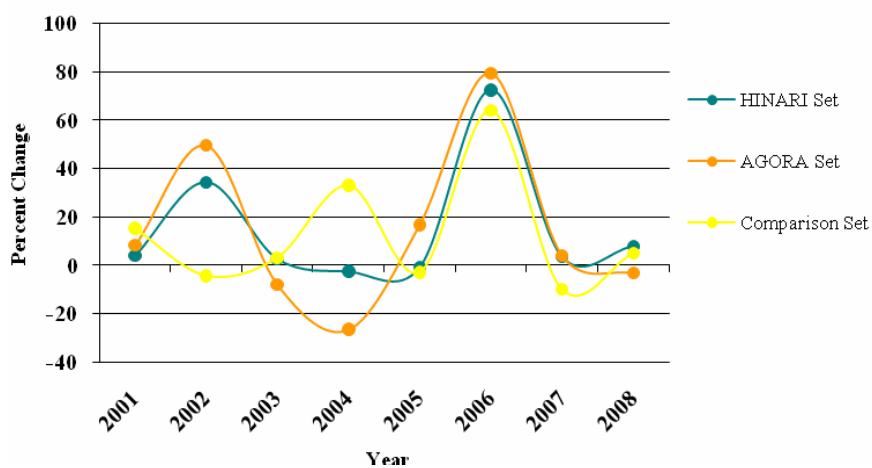


Figure 180. Percent Change in Frequency of Citations Made by Nepal Researchers

Table 97. Average Percent Change in Frequency of Citations Made by Nepal Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
-5.2749	2.2585	-2.5127	2.1099

3.5 Western Asia

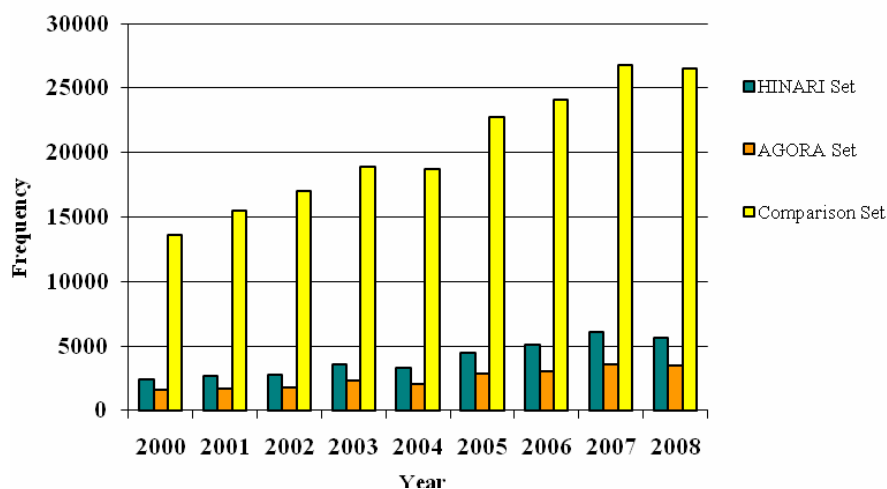


Figure 181. Frequency of Citations Made by Eligible Western Asian Researchers

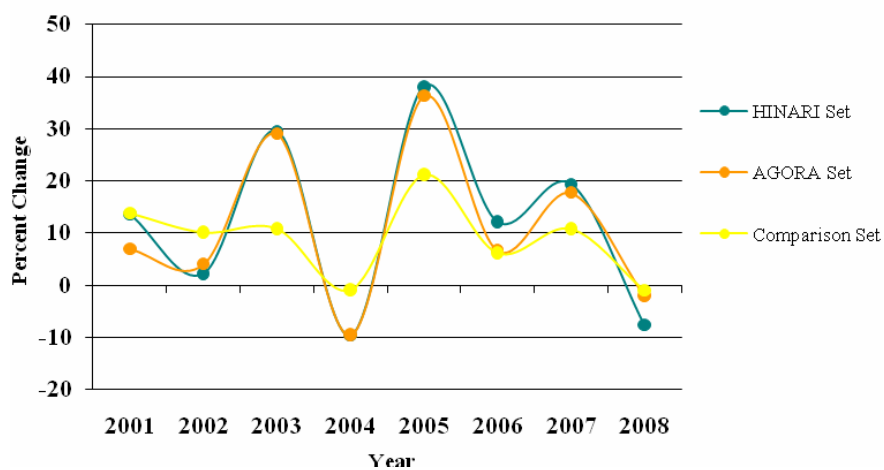


Figure 182. Percent Change in Frequency of Citations Made by Eligible Western Asian Researchers

Table 98. Average Percent Change in Frequency of Citations Made by Eligible Western Asian Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
5.7396	3.2973	-3.5142	2.2736

3.5.1 Armenia

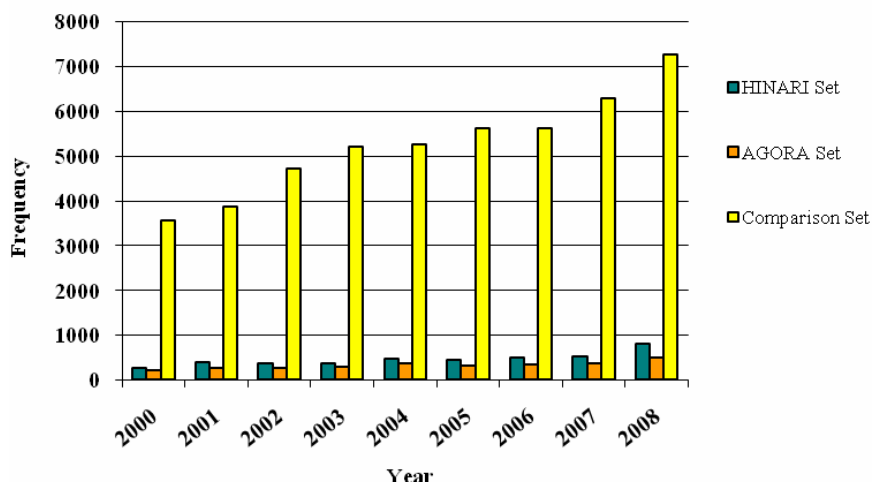


Figure 183. Frequency of Citations Made by Armenia Researchers

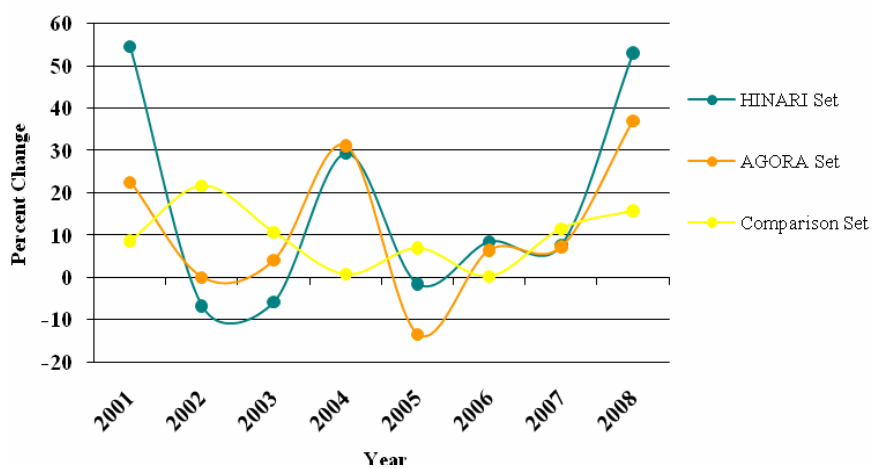


Figure 185. Percent Change in Frequency of Citations Made by Armenia Researchers

Table 99. Average Percent Change in Frequency of Citations Made by Armenia Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
-8.6712	7.8662	4.7931	2.3512

3.5.2 Azerbaijan

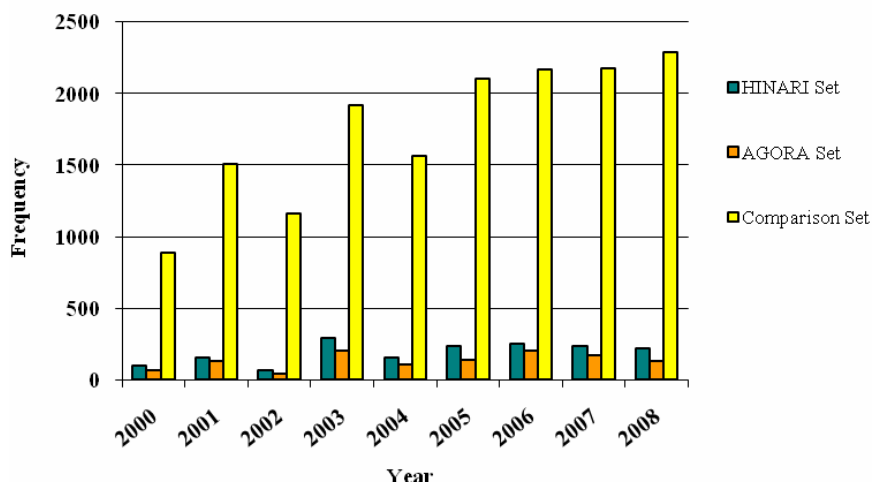


Figure 185. Frequency of Citations Made by Azerbaijan Researchers

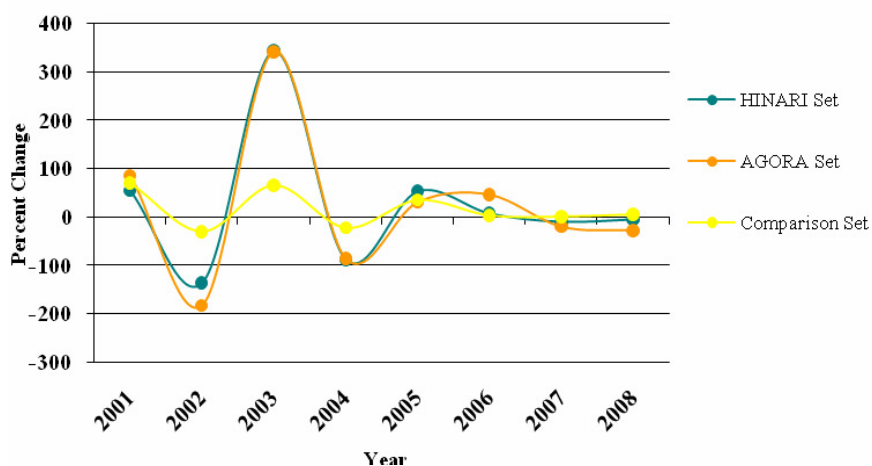


Figure 186. Percent Change in Frequency of Citations Made by Azerbaijan Researchers

Table 100. Average Percent Change in Frequency of Citations Made by Azerbaijan Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
91.3030	11.7744	-93.2491	7.4405

3.5.3 Georgia

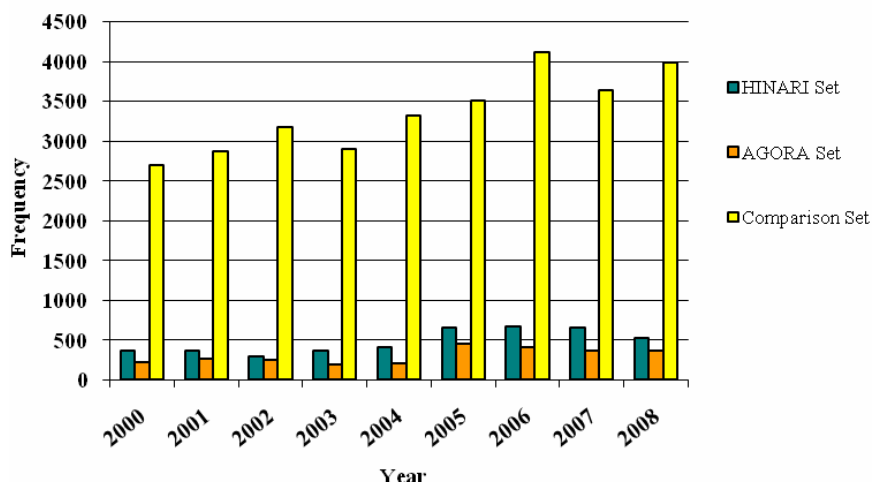


Figure 187. Frequency of Citations Made by Georgia Researchers

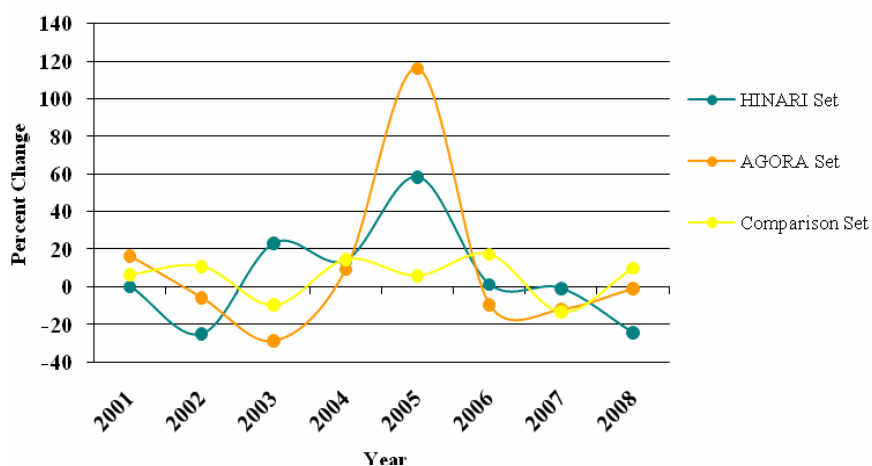


Figure 188. Percent Change in Frequency of Citations Made by Georgia Researchers

Table 101. Average Percent Change in Frequency of Citations Made by Georgia Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
24.4424	0.5408	26.7323	5.2880

3.5.4 Iraq

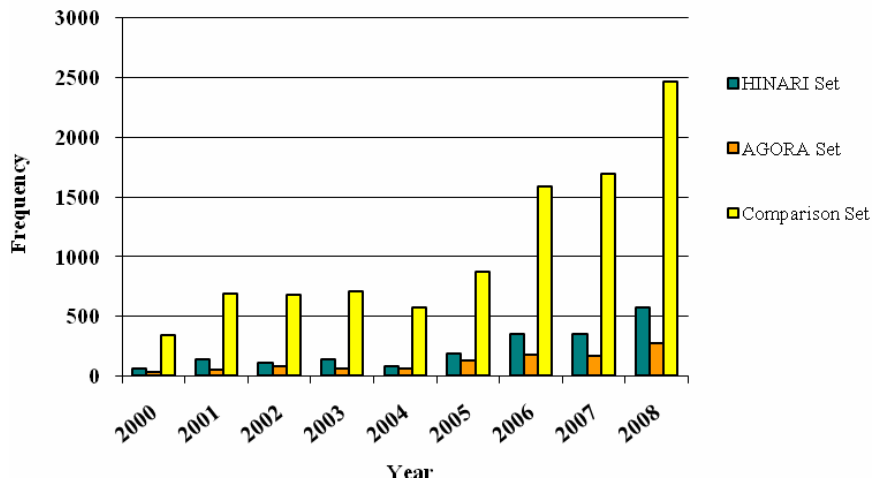


Figure 189. Frequency of Citations Made by Iraq Researchers

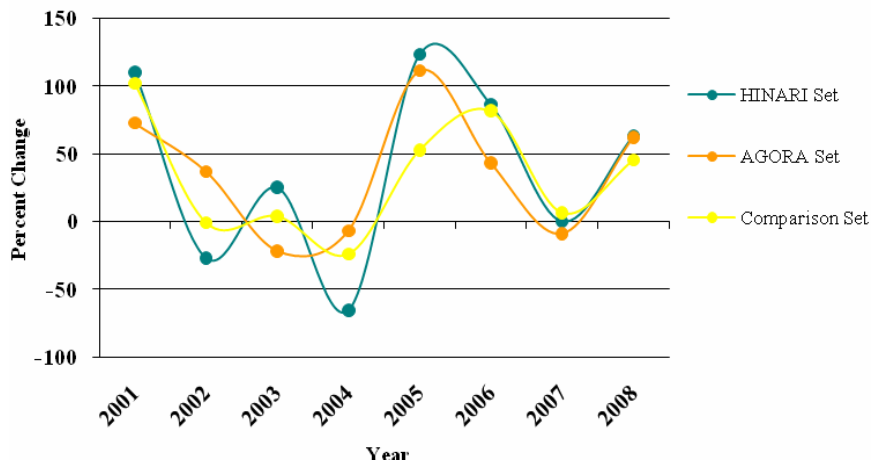


Figure 190. Percent Change in Frequency of Citations Made by Iraq Researchers

Table 102. Average Percent Change in Frequency of Citations Made by Iraq Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
-2.7747	6.1777	11.0886	2.7103

3.5.5 Jordan

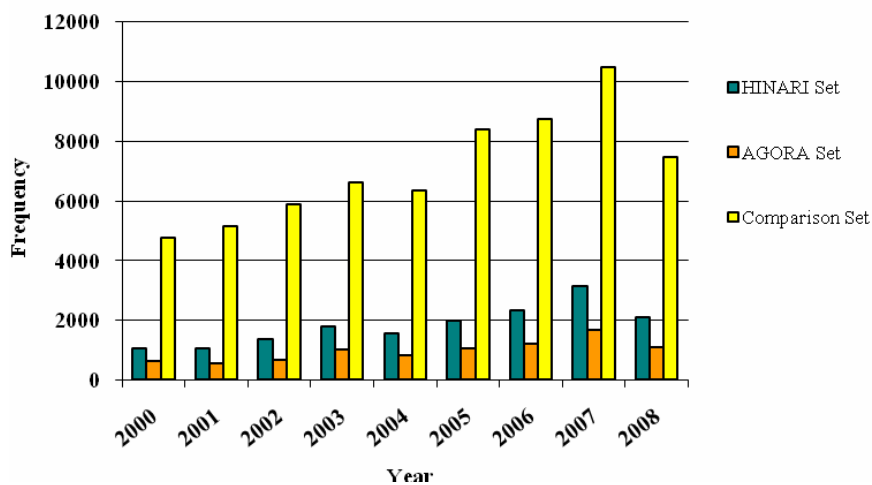


Figure 191. Frequency of Citations Made by Jordan Researchers

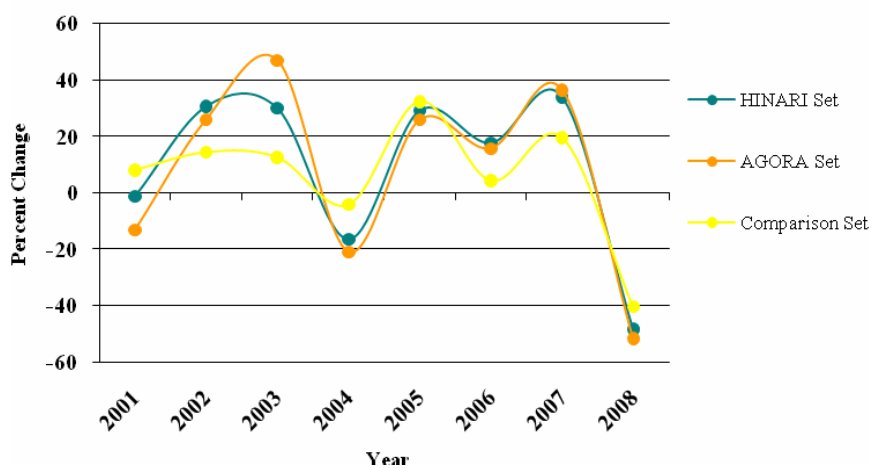


Figure 192. Percent Change in Frequency of Citations Made by Jordan Researchers

Table 103. Average Percent Change in Frequency of Citations Made by Jordan Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
-7.0018	3.5618	-18.8721	2.3182

3.5.6 Syria

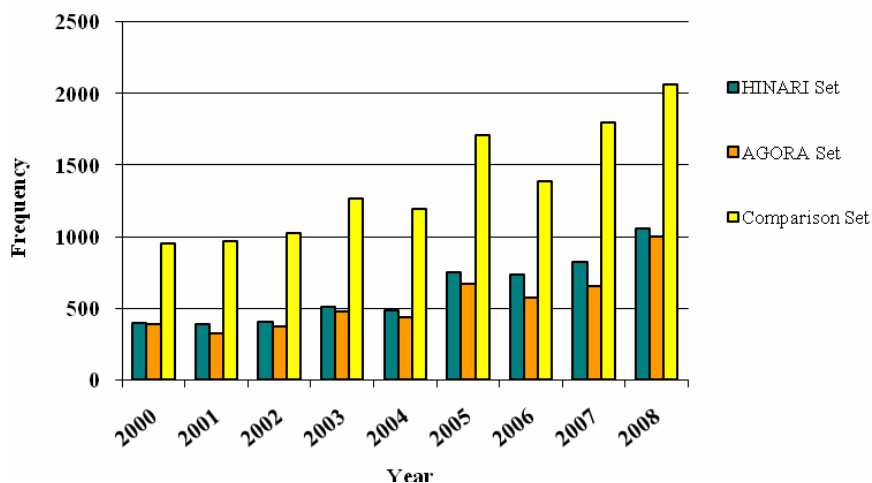


Figure 193. Frequency of Citations Made by Syria Researchers

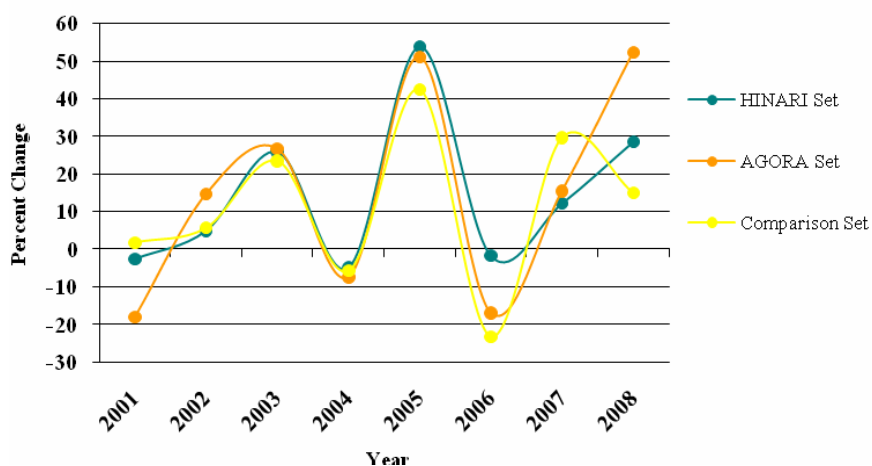


Figure 194. Percent Change in Frequency of Citations Made by Syria Researchers

Table 104. Average Percent Change in Frequency of Citations Made by Syria Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
17.7936	3.3614	11.1206	3.5683

3.5.7 West Bank – Gaza

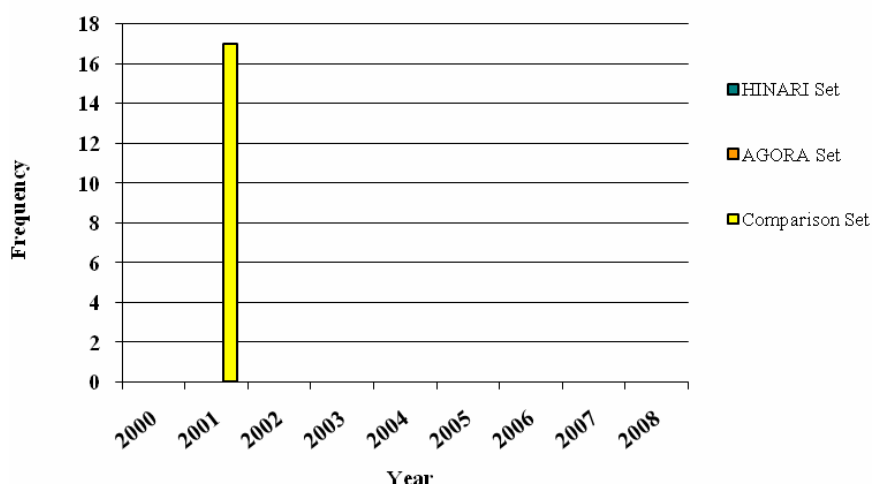


Figure 195. Frequency of Citations Made by West Bank – Gaza Researchers

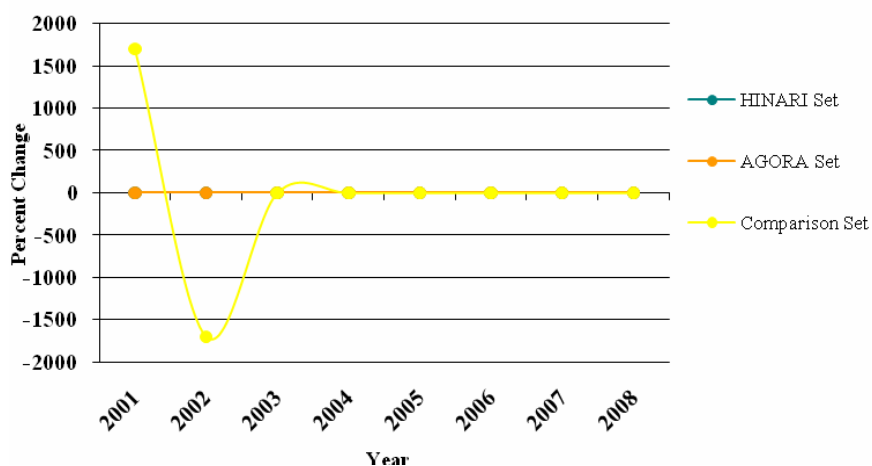


Figure 196. Percent Change in Frequency of Citations Made by West Bank – Gaza Researchers

Table 105. Average Percent Change in Frequency of Citations Made by West Bank – Gaza Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
0.0000	0.0000	0.0000	0.0000

3.5.8 Yemen

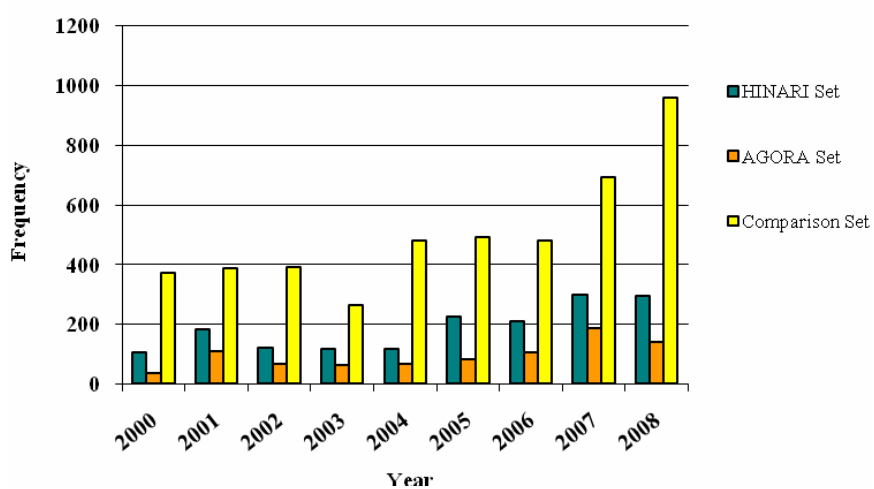


Figure 197. Frequency of Citations Made by Yemen Researchers

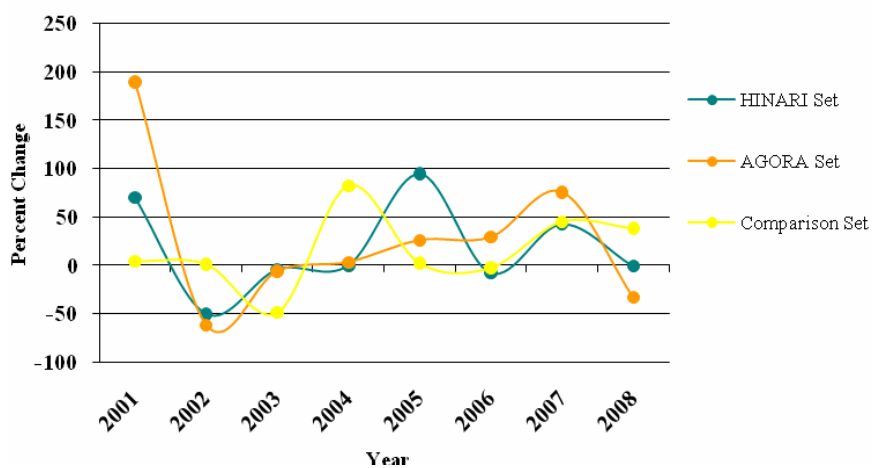


Figure 199. Percent Change in Frequency of Citations Made by Yemen Researchers

Table 106. Average Percent Change in Frequency of Citations Made by Yemen Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
10.8182	2.8100	-20.4532	12.5593

4.0 Europe

Table 107. Average Percent Change in Citations to HINARI Made by Eligible European Researchers

	HINARI Average 2001- 2002	HINARI Average 2003- 2008	HINARI Change	HINARI Average 2001- 2008	Comparison Average 2001-2008	HINARI- Comparison Difference
Eastern Europe	2.9448	12.7406	9.7957	10.2917	5.0512	5.2404
Southern Europe	18.2885	123.0007	104.7122	96.8226	79.9276	16.8950

Table 107 shows sub-regional variation with respect to the average percent change in frequency of citations before and after the initiation of the HINARI program. Both sub-regions demonstrate positive change. For the entire period of the study, both sub-regions reveal a greater average annual percent change in frequency to the HINARI set than to the Comparison Set.

Table 108. Average Percent Change in Citations to AGORA Made by Eligible European Researchers

	AGORA Average 2001- 2003	AGORA Average 2004- 2008	AGORA Change	AGORA Average 2001- 2008	Comparison Average 2001-2008	AGORA- Comparison Difference
Eastern Europe	9.7374	9.7740	0.0365	9.7603	5.0512	4.7090
Southern Europe	24.5509	130.3571	105.8062	90.6798	79.9276	10.7522

Table 4.19 demonstrates sub-regional variation with respect to the average annual percent change in frequency of citations before and after the initiation of the AGORA program, with one sub-region showing negative change and one showing positive change. For the entire period of the study, both sub-regions reveal a greater average annual percent change in frequency of citations to the AGORA set than to the Comparison set.

Table 109. Results Summary for Eligible European Researchers

	Eastern Europe	Southern Europe
Q1: Has the frequency of citations to the HINARI set increased each year?	N	Y
Q2: Has the frequency of citations to the AGORA set increased each year?	N	Y
Q3: Has the frequency of citations to the Comparison set increased each year?	N	N
Q4: Has the percent change in frequency of citations to the HINARI set increased each year?	N	N
Q5: Has the percent change in frequency of citations to the AGORA set increased each year?	N	N
Q6: Has the percent change in frequency of citations to the Comparison set increased each year?	N	N
Q7: Is the average percent change in frequency of citations to the HINARI set from 2003-2008 greater than that from 2000-2002?	Y	Y
Q8: Is average percent change in frequency of citations to the HINARI 2000-2008 greater than that of the Comparison set?	Y	Y
Q9: Is average percent change in frequency of citations to the AGORA set from 2004-2008 greater than that from 2000-2003?	Y	Y
Q10: Is average percent change in citations to the AGORA 2000-2008 greater than that to the Comparison set?	Y	Y
Q11: Is there regional variation with respect to the frequency of and percent change in frequency of citations to the HINARI set?	Y	Y

	Eastern Europe	Southern Europe
Q12: Is there regional variation with respect to the frequency of and percent change in frequency of citations to the AGORA set?	Y	Y

4.1 Eastern Europe

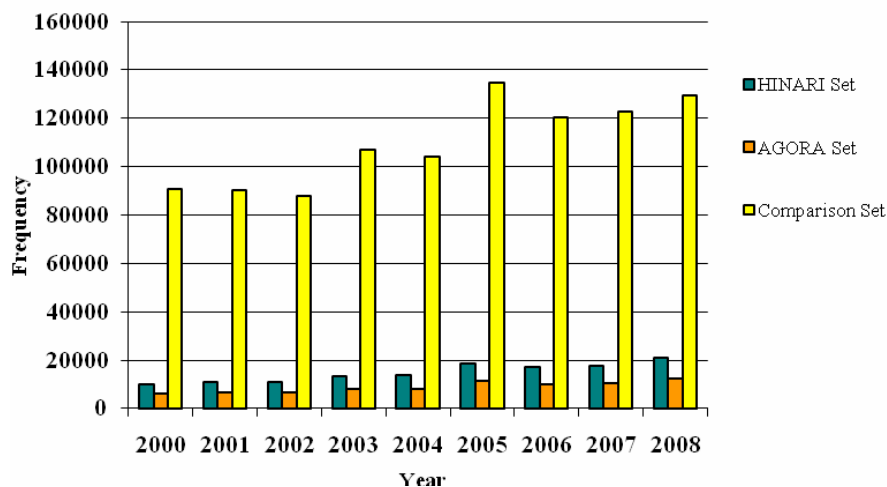


Figure 201. Frequency of Citations Made by Eligible Eastern European Researchers

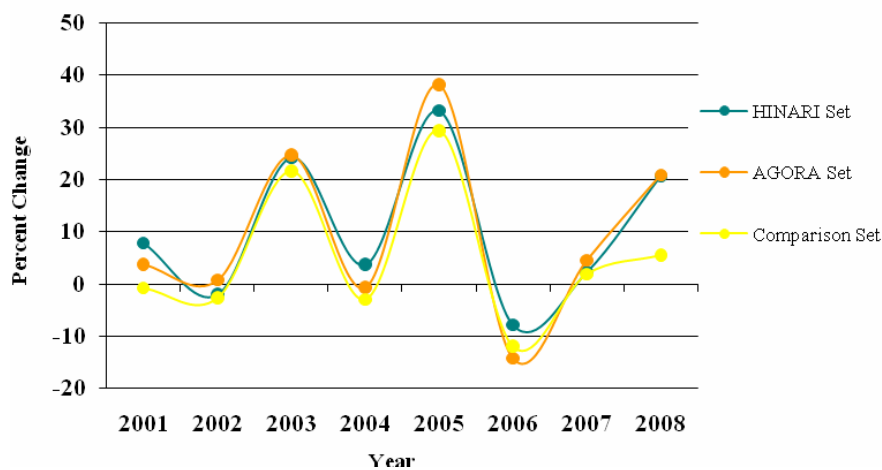


Figure 202. Percent Change in Frequency of Citations Made by Eligible Eastern European Researchers

Table 110. Average Percent Change in Frequency of Citations Made by Eligible Eastern European Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
9.7957	5.2404	0.0365	4.7090

4.1.1 Belarus

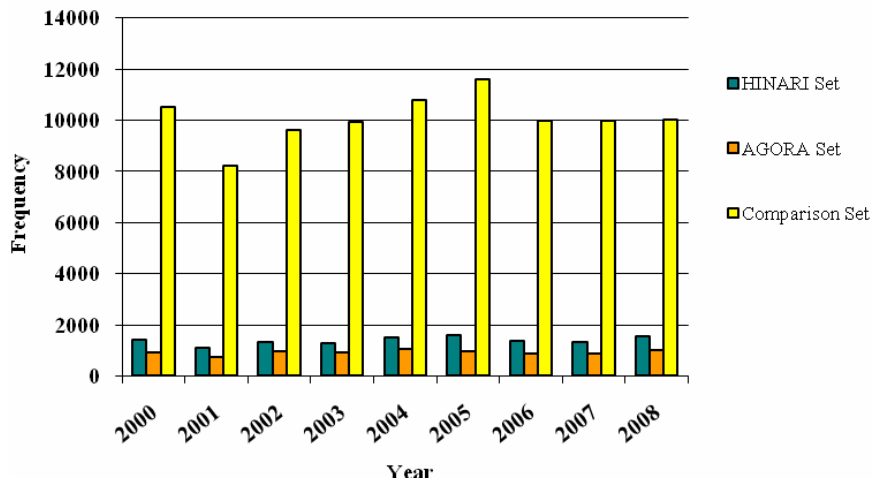


Figure 203. Frequency of Citations Made by Belarus Researchers

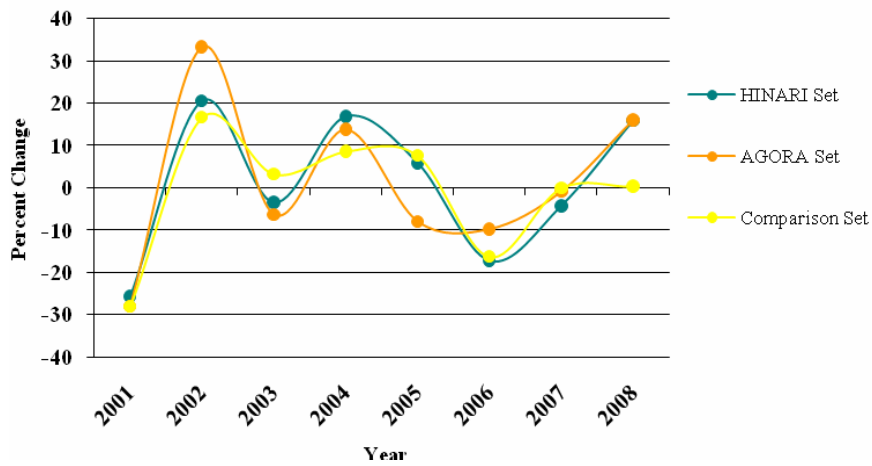


Figure 204. Percent Change in Frequency of Citations Made by Belarus Researchers

Table 111. Average Percent Change in Frequency of Citations Made by Belarus Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
4.8423	2.0568	2.5437	2.2298

4.1.2 Bulgaria

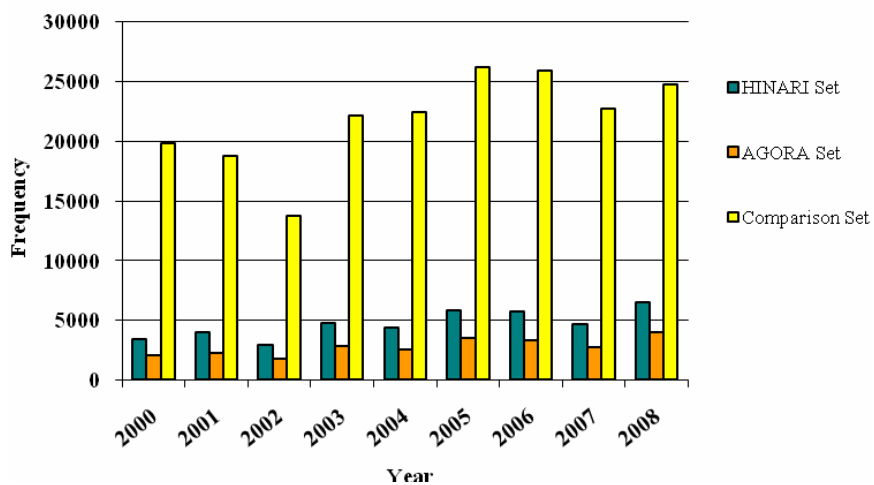


Figure 205. Frequency of Citations Made by Bulgaria Researchers

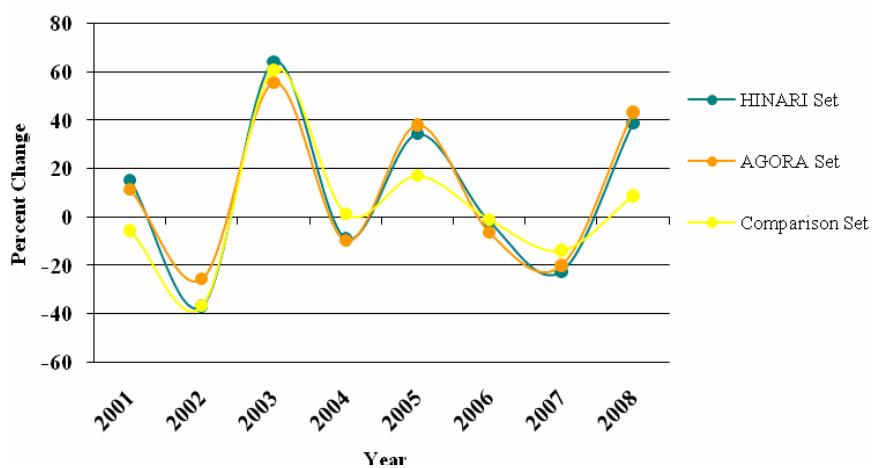


Figure 206. Percent Change in Frequency of Citations Made by Bulgaria Researchers

Table 112. Average Percent Change in Frequency of Citations Made by Bulgaria Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
28.1231	6.4527	-4.8244	6.9818

4.1.3 Moldova

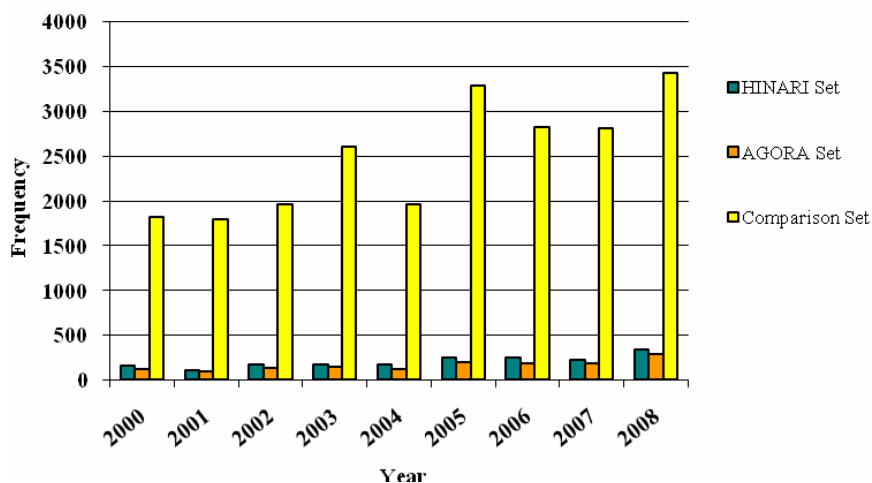


Figure 207. Frequency of Citations Made by Moldova Researchers

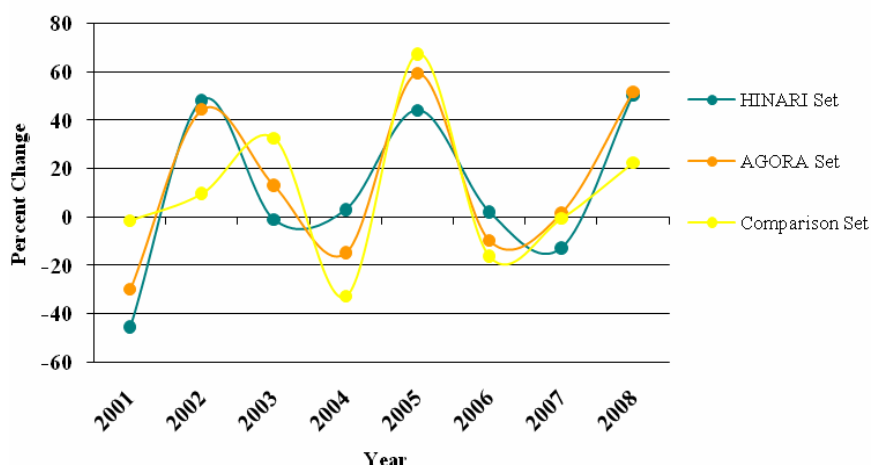


Figure 208. Percent Change in Frequency of Citations Made by Moldova Researchers

Table 113. Average Percent Change in Frequency of Citations Made by Moldova Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
12.9340	0.9172	8.4899	4.3810

4.1.4 Romania

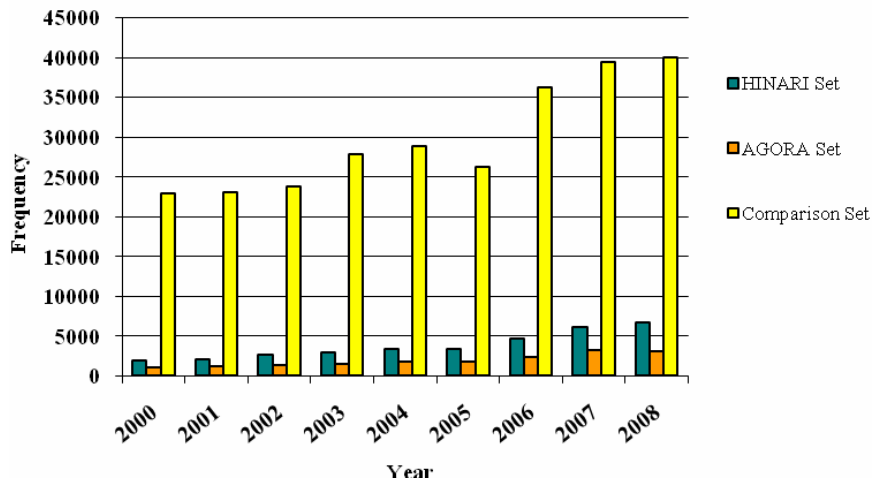


Figure 209. Frequency of Citations Made by Romania Researchers

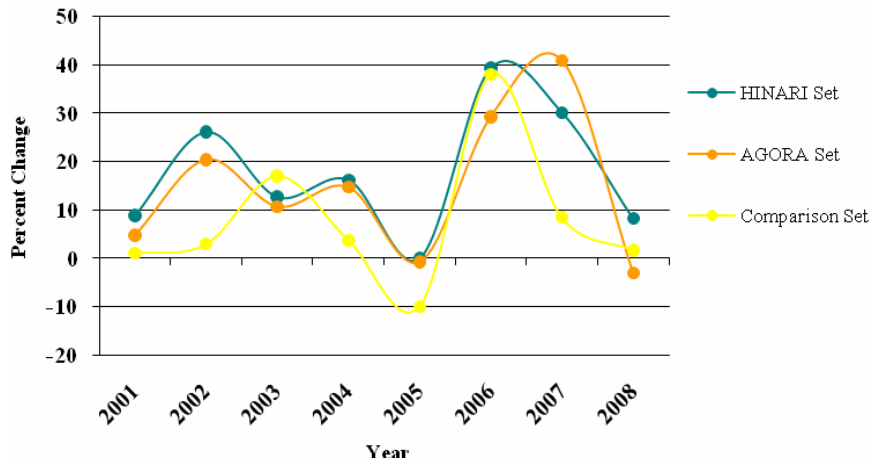


Figure 210. Percent Change in Frequency of Citations Made by Romania Researchers

Table 114. Average Percent Change in Frequency of Citations Made by Romania Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
0.2709	9.8584	4.2558	6.7432

4.1.5 Ukraine

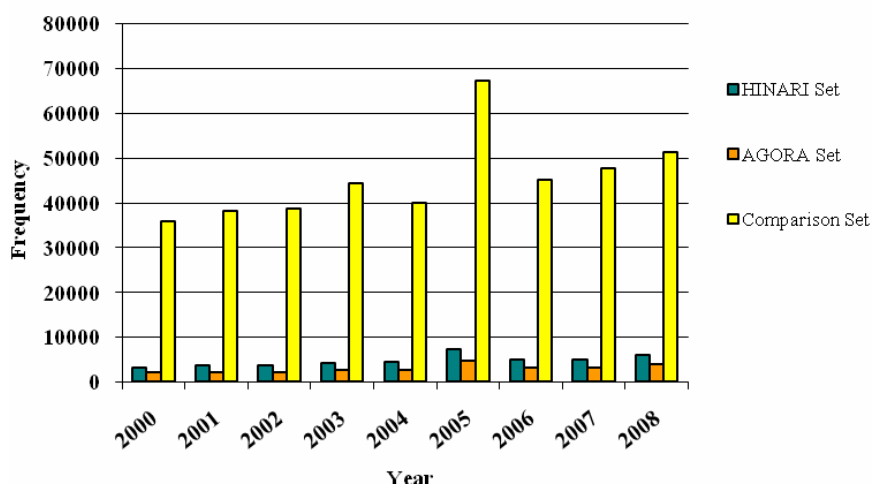


Figure 211. Frequency of Citations Made by Ukraine Researchers

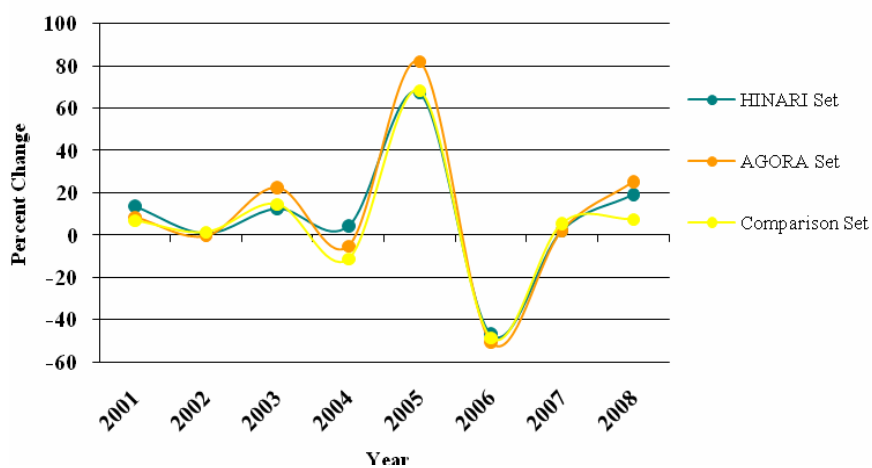


Figure 212. Percent Change in Frequency of Citations Made by Ukraine Researchers

Table 115. Average Percent Change in Frequency of Citations Made by Ukraine Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
2.5289	3.5887	0.4893	5.0294

4.2 Southern Europe

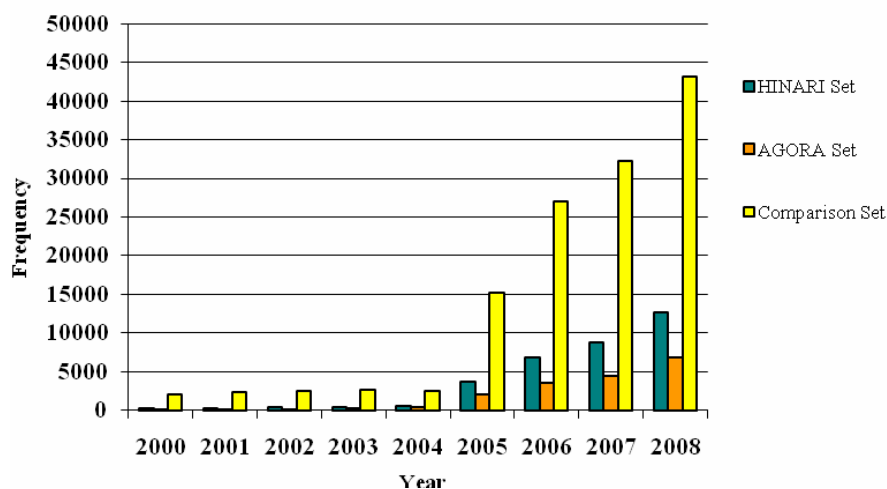


Figure 213. Frequency of Citations Made by Eligible Southern European Researchers

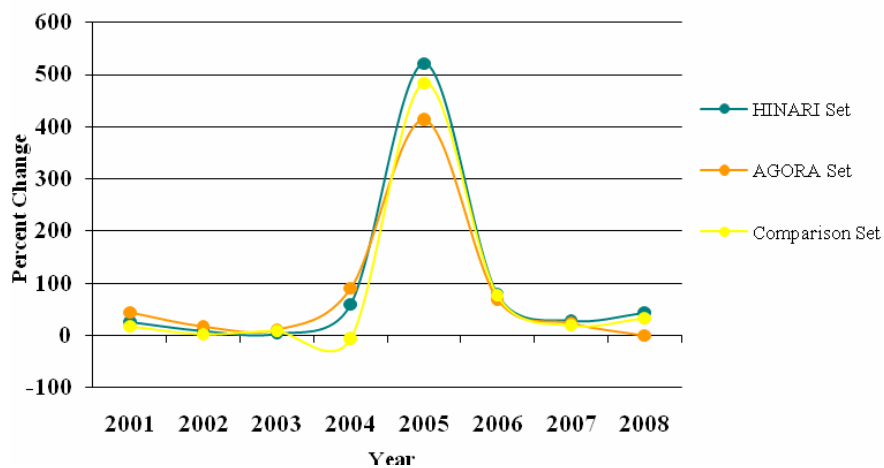


Figure 214. Percent Change in Frequency of Citations Made by Eligible Southern European Researchers

Table 116. Average Percent Change in Frequency of Citations Made by Eligible Southern European Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
104.7122	16.8950	105.8062	10.7522

4.2.1 Albania

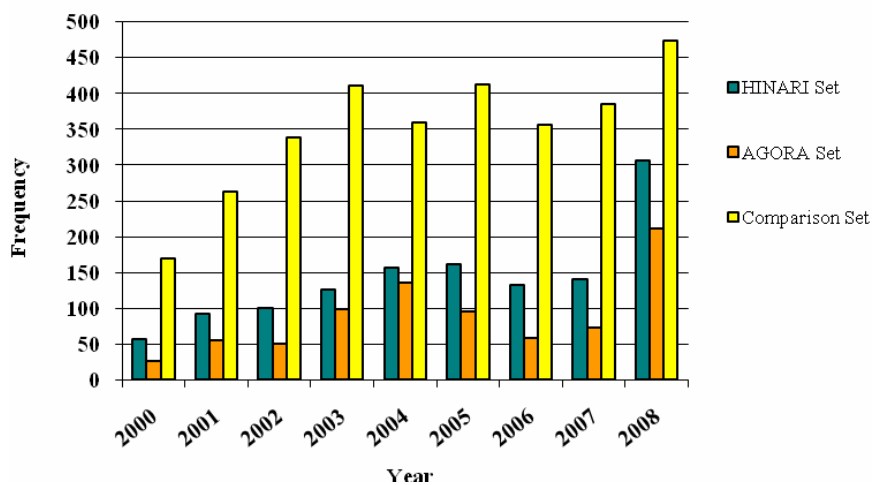


Figure 215. Frequency of Citations Made by Albania Researchers

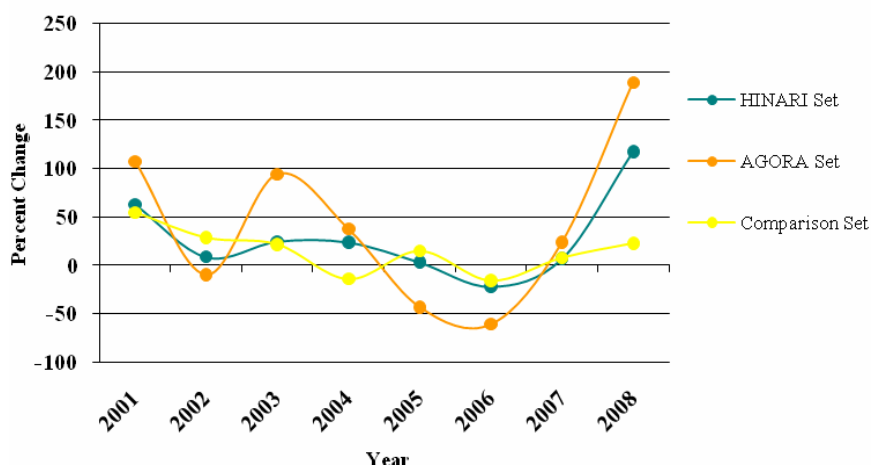


Figure 216. Percent Change in Frequency of Citations Made by Albania Researchers

Table 117. Average Percent Change in Frequency of Citations Made by Albania Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
-10.1557	13.2145	-34.7133	27.1625

4.2.2 Bosnia Herzegovina

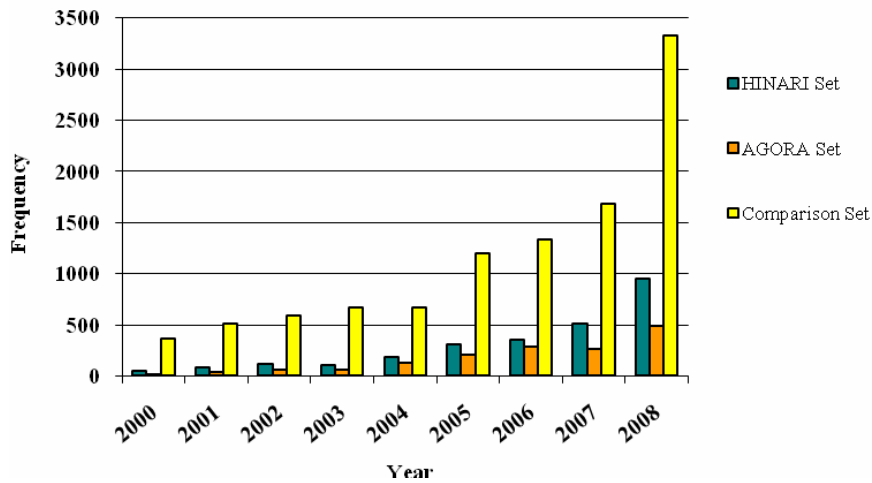


Figure 217. Frequency of Citations Made by Bosnia Herzegovina Researchers

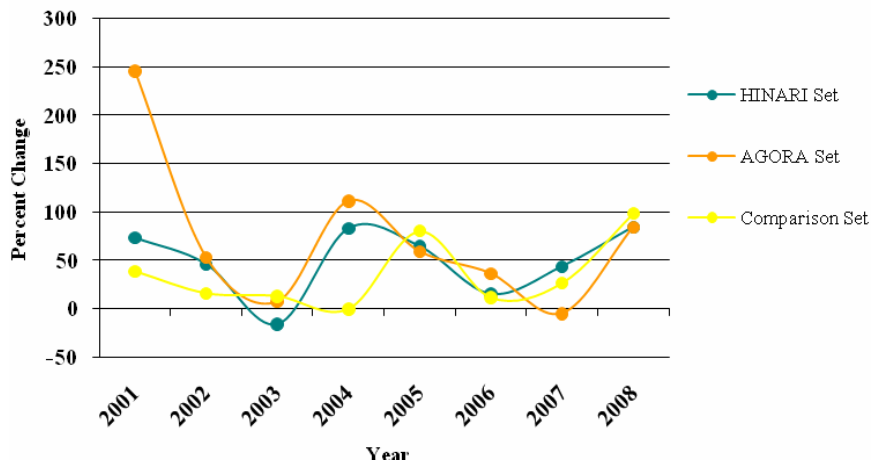


Figure 218. Percent Change in Frequency of Citations Made by Bosnia Herzegovina Researchers

Table 118. Average Percent Change in Frequency of Citations Made by Bosnia Herzegovina Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
-13.7921	13.6829	-44.6735	38.4170

4.2.3 Macedonia

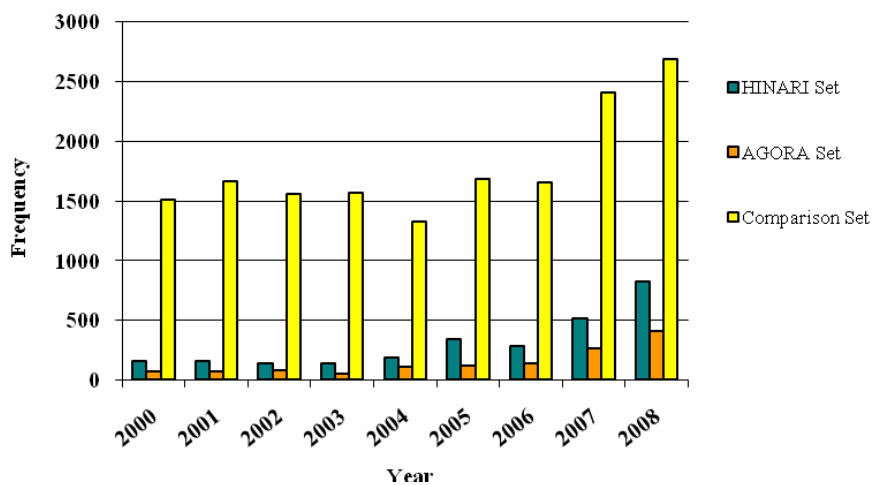


Figure 219. Frequency of Citations Made by Macedonia Researchers

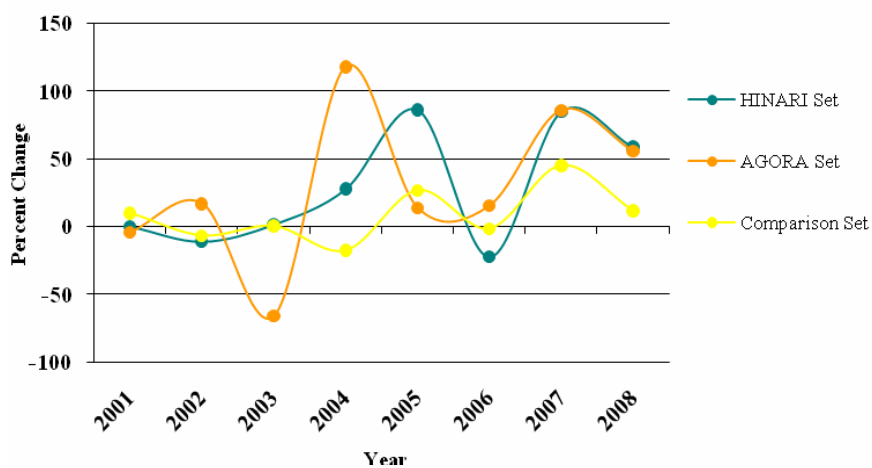


Figure 220. Percent Change in Frequency of Citations Made by Macedonia Researchers

Table 119. Average Percent Change in Frequency of Citations Made by Macedonia Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
45.1304	19.7486	75.5221	20.9613

4.2.4 Montenegro

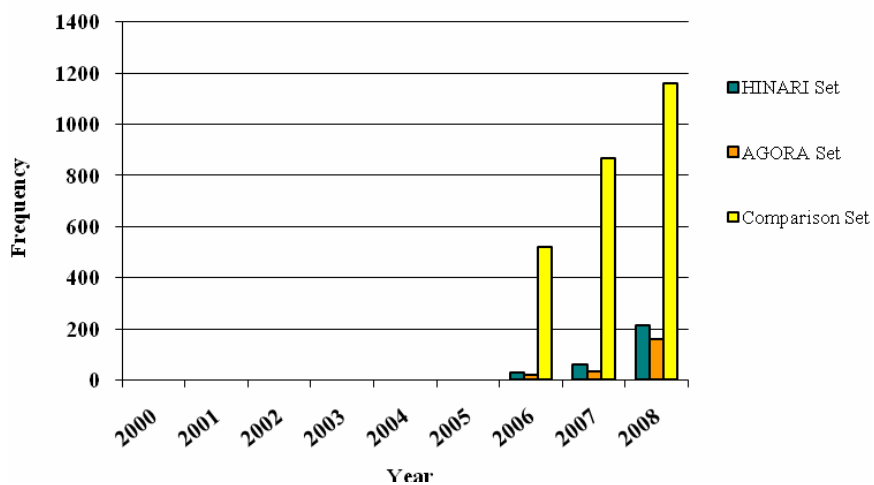


Figure 221. Frequency of Citations Made by Montenegro Researchers

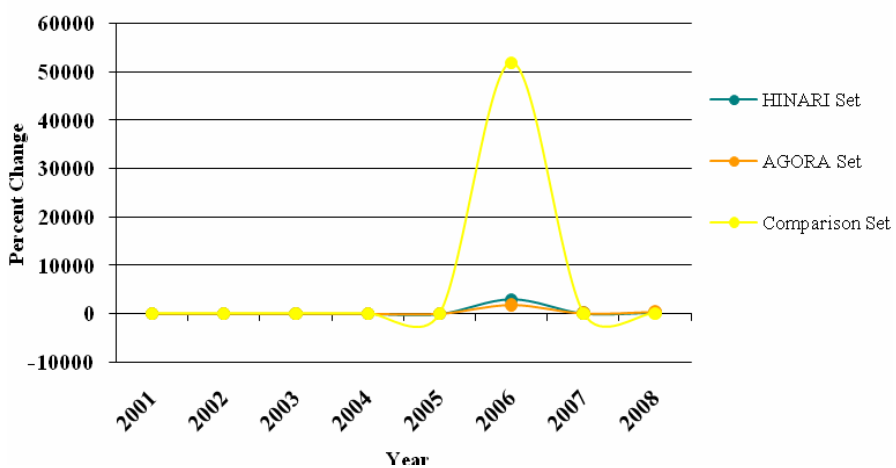


Figure 222. Percent Change in Frequency of Citations Made by Montenegro Researchers

Table 120. Average Percent Change in Frequency of Citations Made by Montenegro Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
544.0775	-6092.0237	454.3056	-6216.1409

4.2.5 Serbia

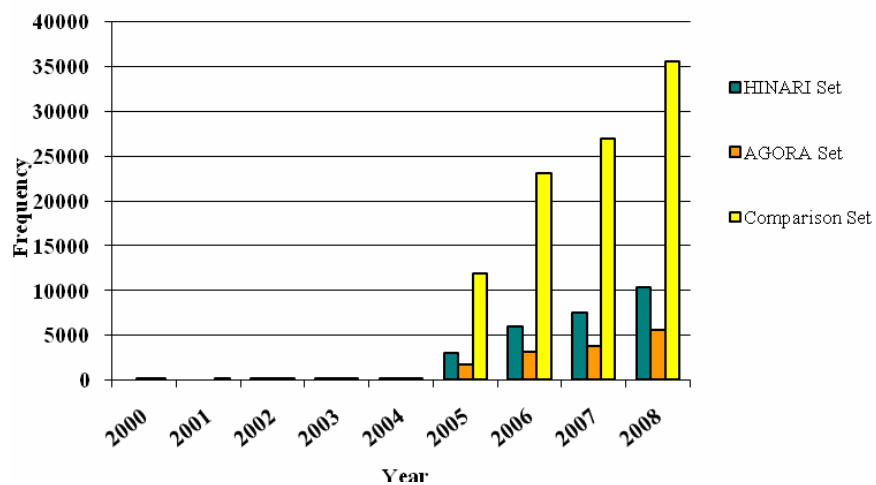


Figure 223. Frequency of Citations Made by Serbia Researchers

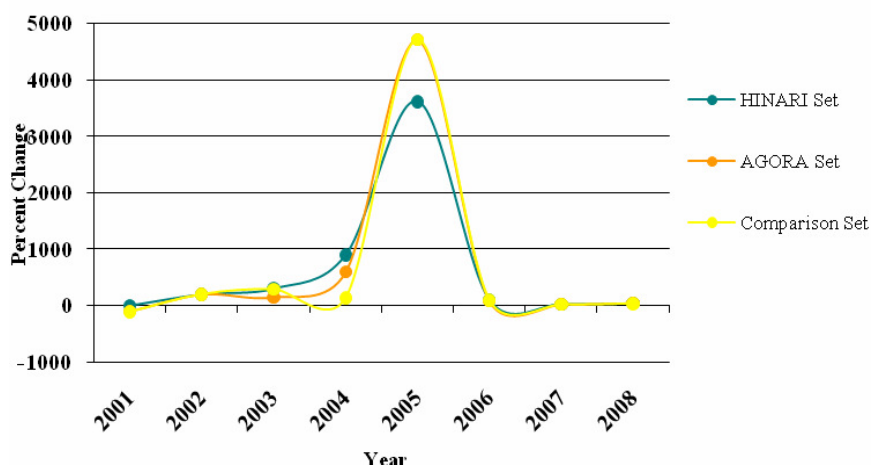


Figure 224. Percent Change in Frequency of Citations Made by Serbia Researchers

Table 121. Average Percent Change in Frequency of Citations Made by Serbia Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
730.2124	-23.4497	1009.5352	43.1838

5.0 Oceana

Table 122. Average Percent Change in Citations to HINARI Made by Eligible Oceanic Researchers

	HINARI Average 2001-2002	HINARI Average 2003- 2008	HINARI Change Before- After	HINARI Average 2001- 2008	Comparison Average 2001-2008	HINARI- Comparison Difference
Melanesia Oceana	9.5614	13.1445	3.5831	12.2487	10.5504	1.6983
Micronesia Oceana	-104.1667	-2.1860	101.9807	-27.6811	-56.2828	28.6017
Polynesia Oceana	37.5000	37.2826	-0.2174	37.3370	32.3242	5.0128

Table 122 describes sub-regional variation with respect to the average annual percent change in frequency of citations before and after the initiation of the HINARI program. Two sub-regions demonstrate positive change and one demonstrates negative change. For the entire period of the study, all three sub-regions reveal a greater average annual percent change in frequency of citations to the HINARI set than to the Comparison set.

Table 123. Average Percent Change in Citations to AGORA Made by Eligible Oceanic Researchers

	AGORA Average 2001- 2003	AGORA Average 2004- 2008	AGORA Change Before- After	AGORA Average 2001- 2008	Comparison Average 2001-2008	AGORA- Comparison Difference
Melanesia Oceana	3.5421	19.0218	15.4797	13.2169	10.5504	2.6665
Micronesia Oceana	91.2879	-41.6451	-132.9329	8.2048	-56.2828	64.4876
Polynesia Oceana	171.0496	-12.1817	-183.2313	56.5300	32.3242	24.2058

Table 123 demonstrates sub-regional variation with respect to the average percent change in frequency of citations before and after the initiation of the AGORA program, with two sub-regions demonstrating negative change and one sub-region demonstrating positive change. For the entire period of the study, all three sub-regions reveal a greater average annual percent change in frequency of citations to the AGORA set than to the Comparison set.

Table 124. Results Summary for Eligible Oceanic Researchers

	Melanesia	Micronesia	Polynesia
Q1: Has the frequency of citations to the HINARI set increased each year?	N	N	N
Q2: Has the frequency of citations to the AGORA set increased each year?	N	N	N
Q3: Has the frequency of citations to the Comparison set increased each year?	N	N	N
Q4: Has the percent change in frequency of citations to the HINARI set increased each year?	N	N	N
Q5: Has the percent change in frequency of citations to the AGORA set increased each year?	N	N	N
Q6: Has the percent change in frequency of citations to the Comparison set increased each year?	N	N	N
Q7: Is the average percent change in frequency of citations to the HINARI set from 2003-2008 greater than that from 2000-2002?	Y	Y	N
Q8: Is average percent change in frequency of citations to the HINARI 2000-2008 greater than that of the Comparison set?	Y	Y	Y
Q9: Is average percent change in frequency of citations to the AGORA set from 2004-2008 greater than that from 2000-2003?	Y	N	N
Q10: Is average percent change in citations to the AGORA 2000-2008 greater than that to the Comparison set?	Y	Y	Y
Q11: Is there regional variation with respect to the frequency of and percent change in frequency of citations to the HINARI set?	Y	Y	Y

	Melanesia	Micronesia	Polynesia
Q12: Is there regional variation with respect to the frequency of and percent change in frequency of citations to the AGORA set?	Y	Y	Y

5.1 Melanesia

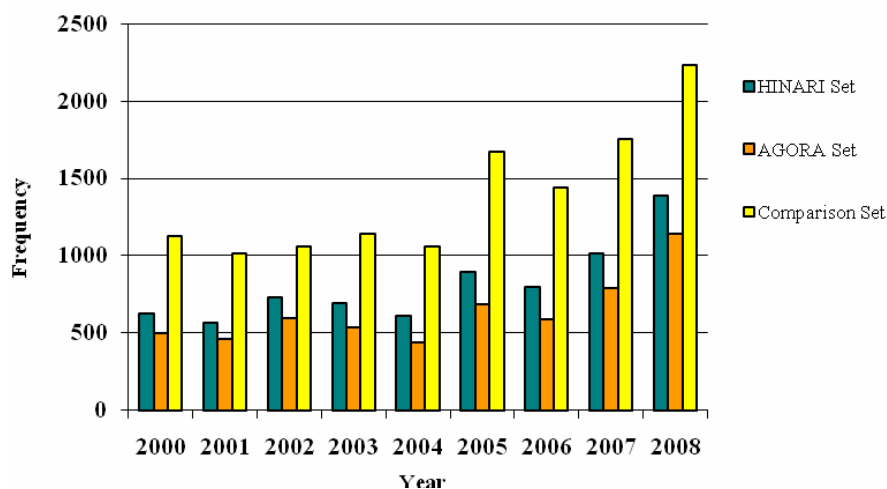


Figure 227. Frequency of Citations Made by Eligible Melanesian Researchers

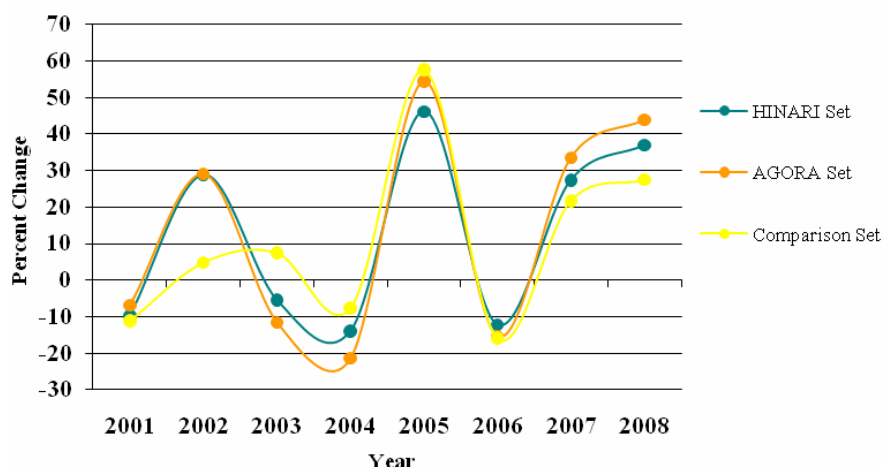


Figure 229. Percent Change in Frequency of Citations Made by Eligible Melanesian Researchers

Table 125. Average Percent Change in Frequency of Citations Made by Eligible Melanesian Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
3.5831	1.6983	15.4797	2.6665

5.1.1 Fiji

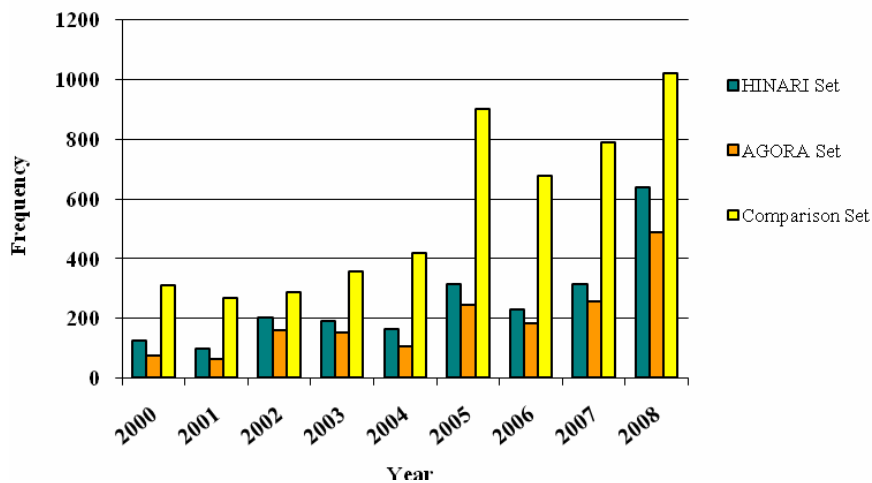


Figure 229. Frequency of Citations Made by Fiji Researchers

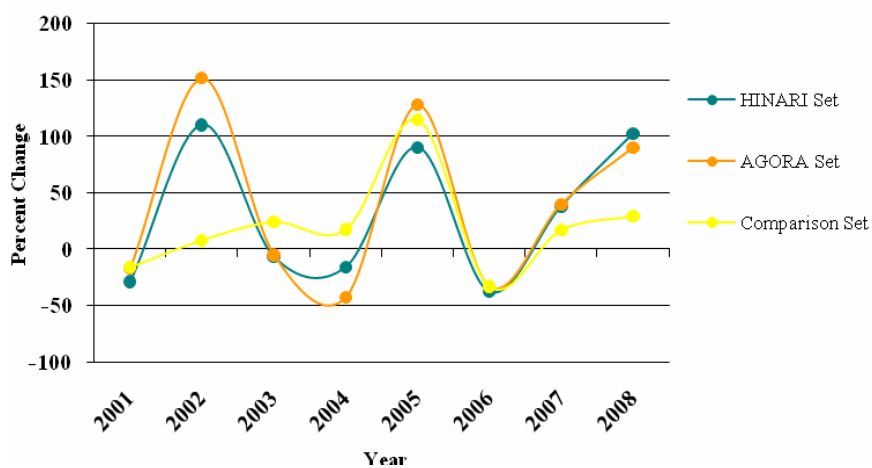


Figure 230. Percent Change in Frequency of Citations Made by Fiji Researchers

Table 126. Average Percent Change in Frequency of Citations Made by Fiji Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
-12.2687	11.4295	-6.6811	18.7825

5.1.2 Papua New Guinea

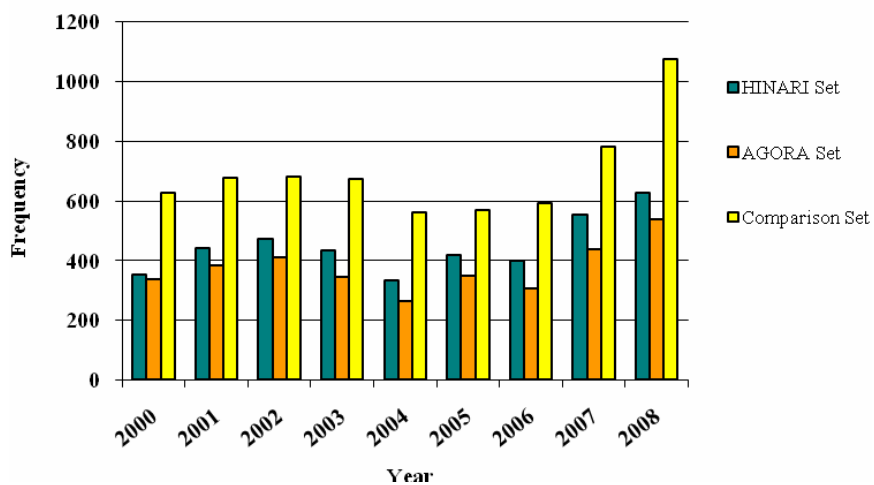


Figure 231. Frequency of Citations Made by Papua New Guinea Researchers

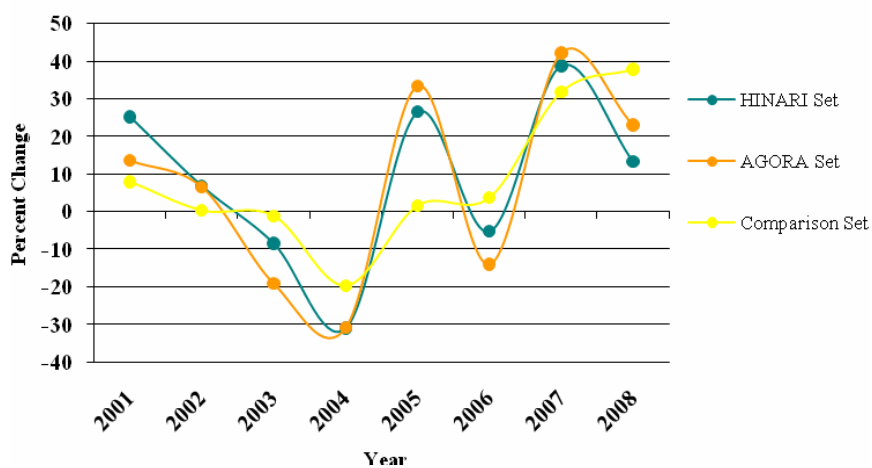


Figure 232. Percent Change in Frequency of Citations Made by Papua New Guinea Researchers

Table 127. Average Percent Change in Frequency of Citations Made by Papua New Guinea Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
-10.3470	0.4696	10.5013	-0.9145

5.1.3 Solomon Islands

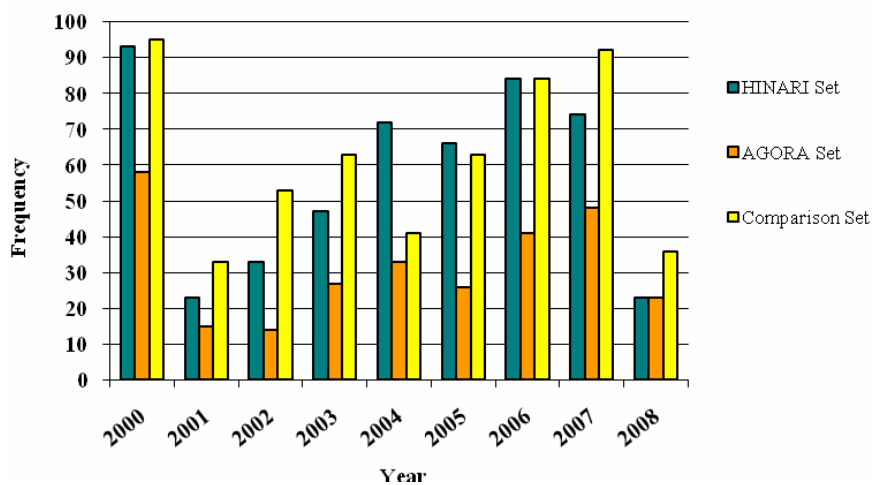


Figure 233. Frequency of Citations Made by Solomon Islands Researchers

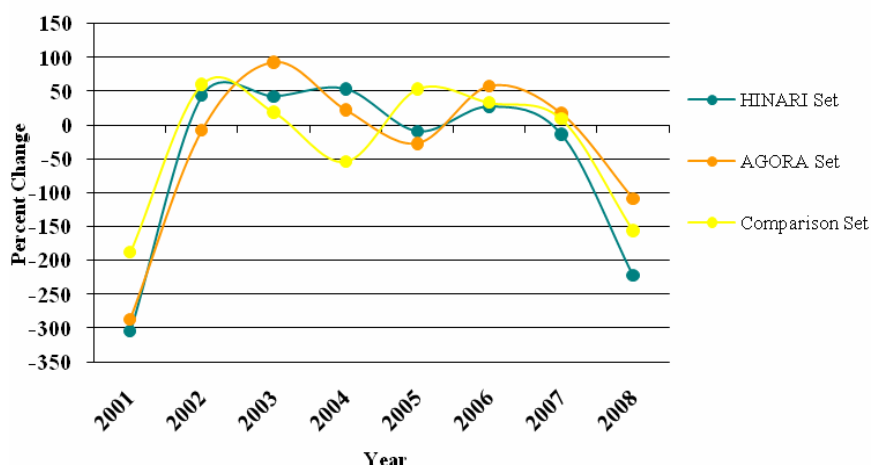


Figure 234. Percent Change in Frequency of Citations Made by Solomon Islands Researchers

Table 128. Average Percent Change in Frequency of Citations Made by Solomon Islands Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
110.1923	-20.1527	59.2579	-2.3100

5.1.4 Vanuatu

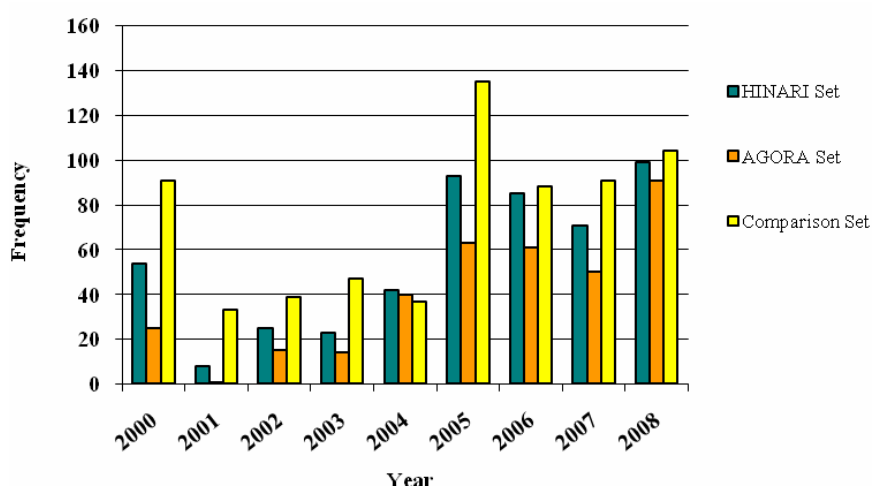


Figure 235. Frequency of Citations Made by Vanuatu Researchers

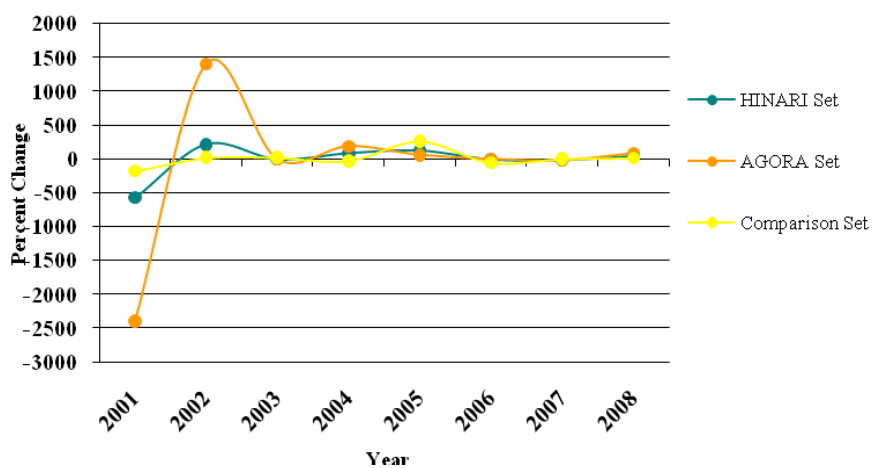


Figure 236. Percent Change in Frequency of Citations Made by Vanuatu Researchers

Table 129. Average Percent Change in Frequency of Citations Made by Vanuatu Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
215.5247	-27.7391	395.7014	-96.5335

5.2 Micronesia

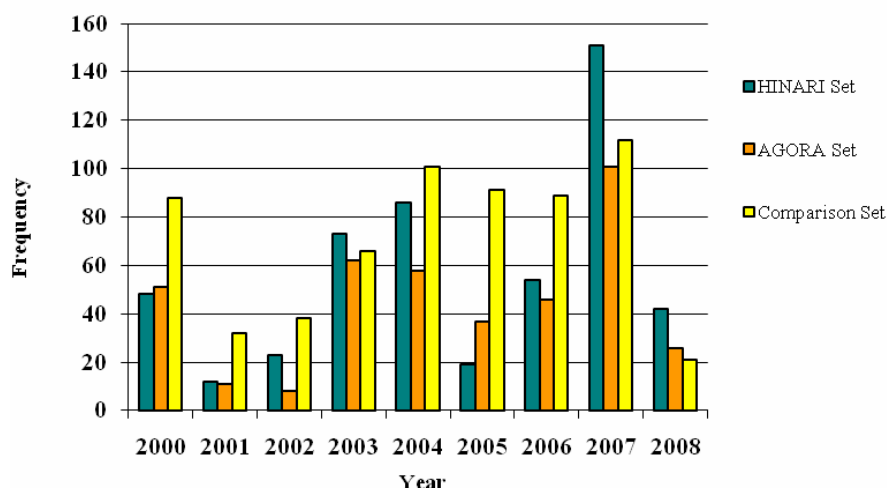


Figure 237. Frequency of Citations Made by Eligible Micronesia Researchers

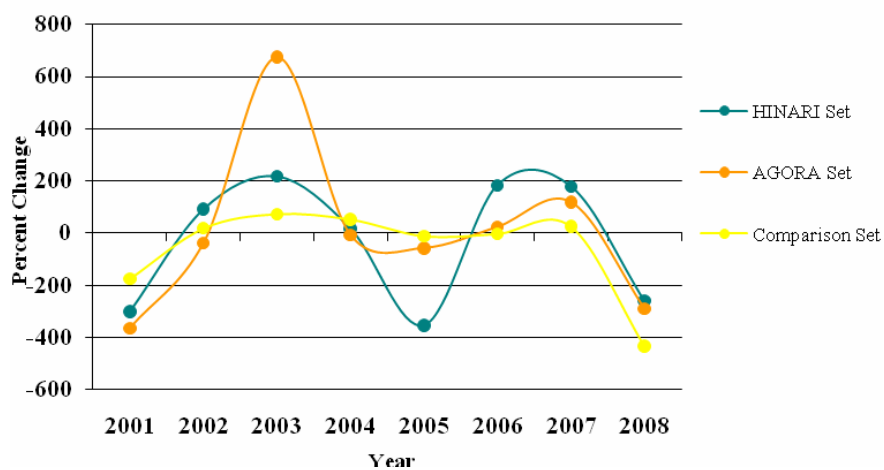


Figure 238. Percent Change in Frequency of Citations Made by Eligible Micronesia Researchers

Table 130. Average Percent Change in Frequency of Citations Made by Eligible Micronesia Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
101.9807	28.6017	-132.9329	64.4876

5.2.1 Kiribati

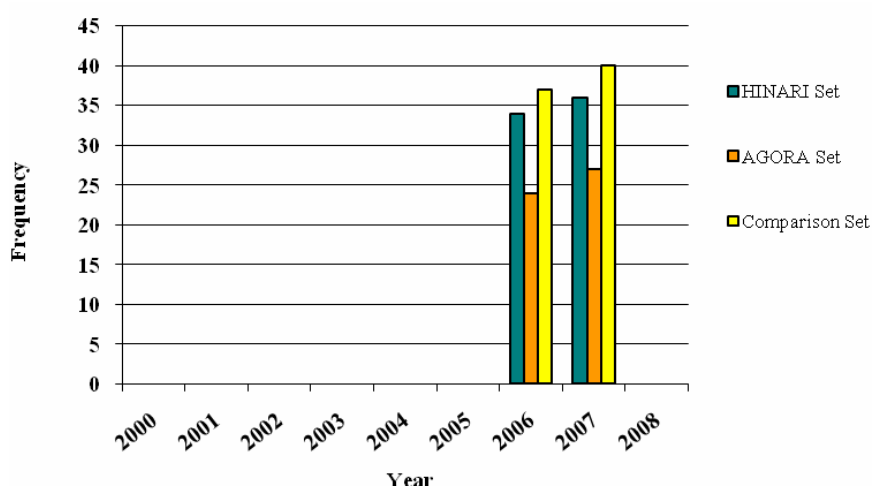


Figure 239. Frequency of Citations Made by Kiribati Researchers

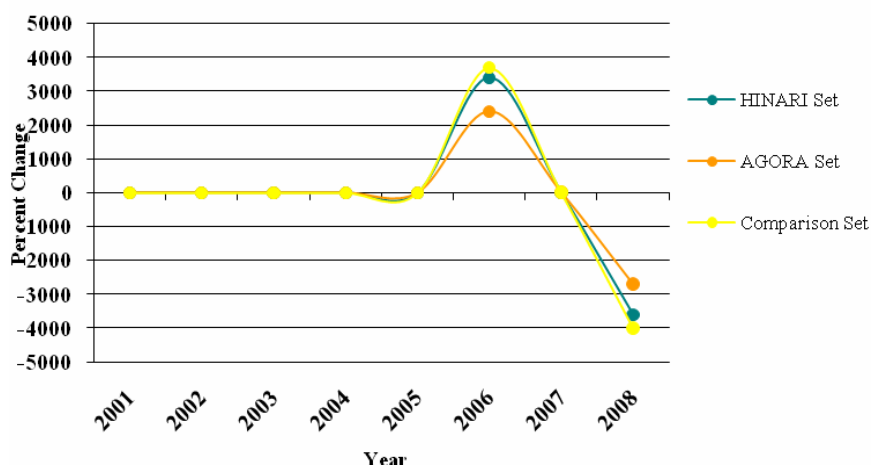


Figure 240. Percent Change in Frequency of Citations Made by Kiribati Researchers

Table 131. Average Percent Change in Frequency of Citations Made by Kiribati Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
-32.3529	12.2218	-57.5000	0.5490

5.2.2 Marshall Islands

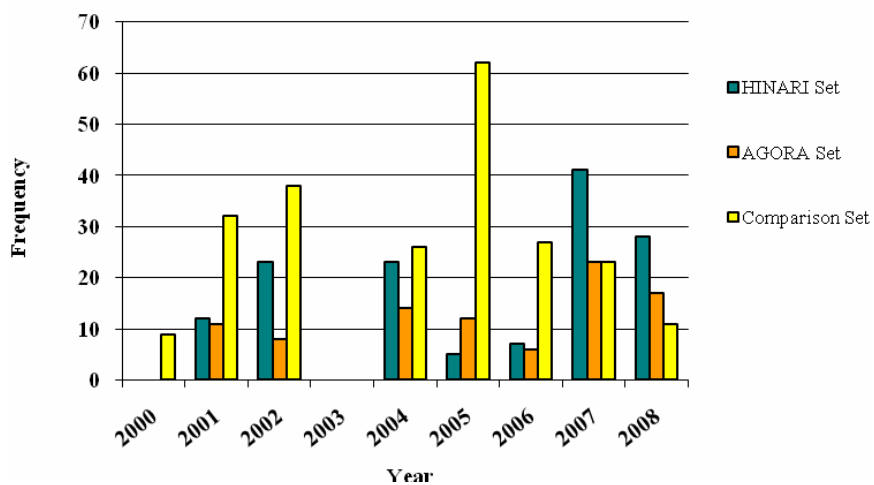


Figure 241. Frequency of Citations Made by Marshall Islands Researchers

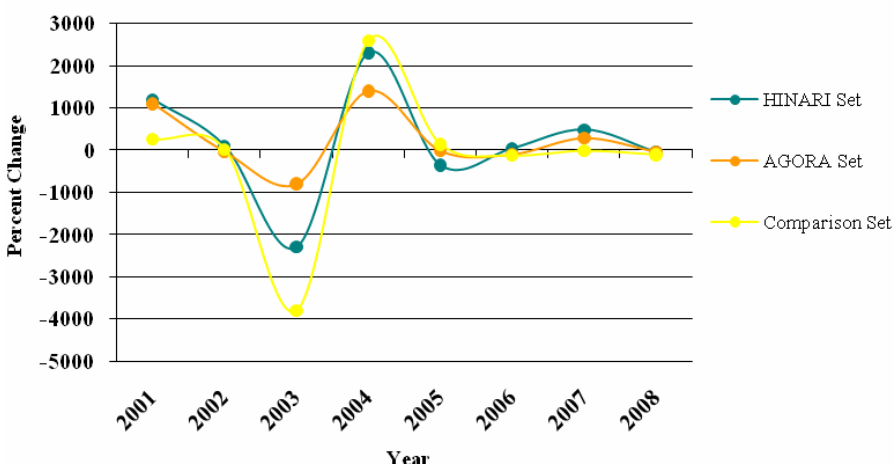


Figure 242. Percent Change in Frequency of Citations Made by Marshall Islands Researchers

Table 132. Average Percent Change in Frequency of Citations Made by Marshall Islands Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
-625.9524	306.7871	218.7745	354.6522

5.2.3 Federated States of Micronesia

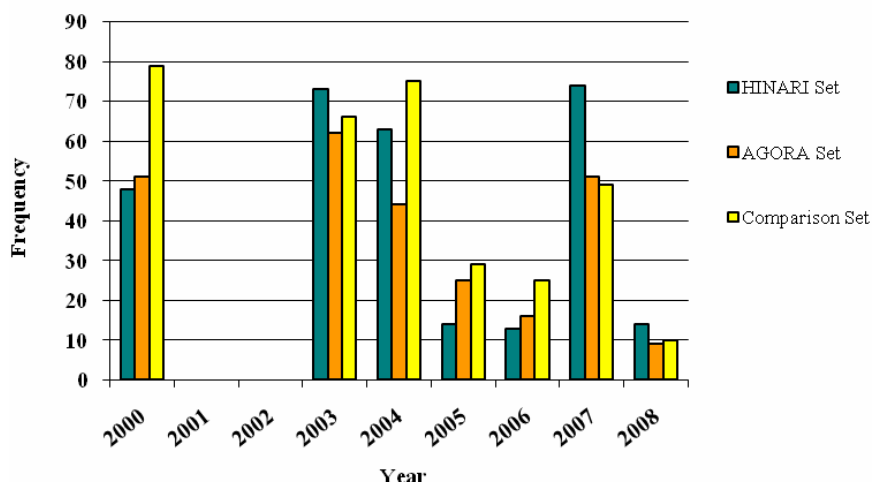


Figure 243. Frequency of Citations Made by Federated States of Micronesia Researchers

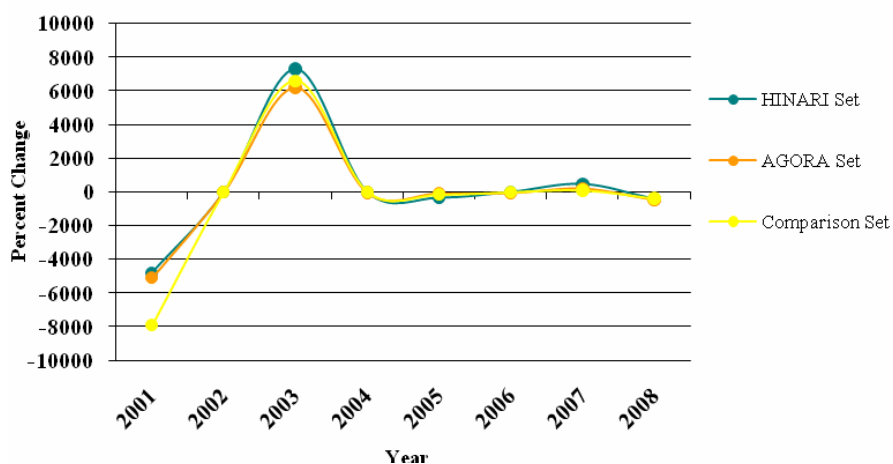


Figure 244. Percent Change in Frequency of Citations Made by Federated States of Micronesia Researchers

Table 133. Average Percent Change in Frequency of Citations Made by Federated States of Micronesia Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
3561.1823	490.2598	-450.8818	304.2386

5.3 Polynesia

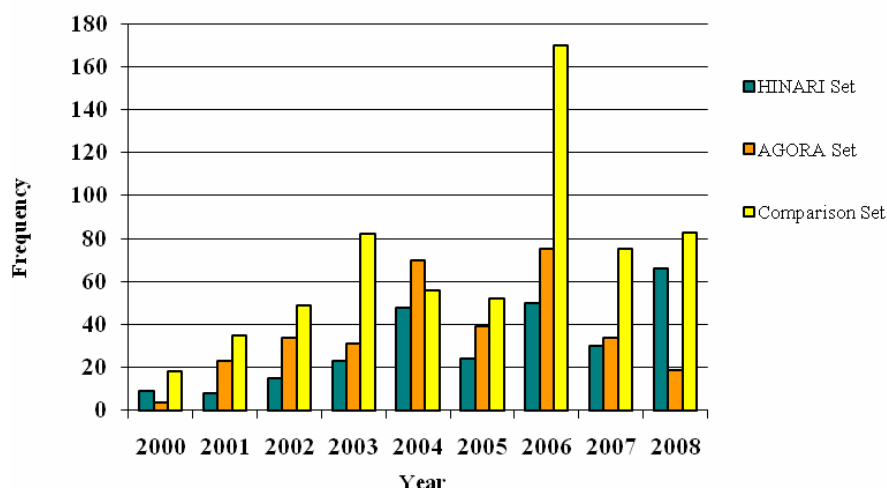


Figure 245. Frequency of Citations Made by Eligible Polynesian Researchersⁱⁱⁱ

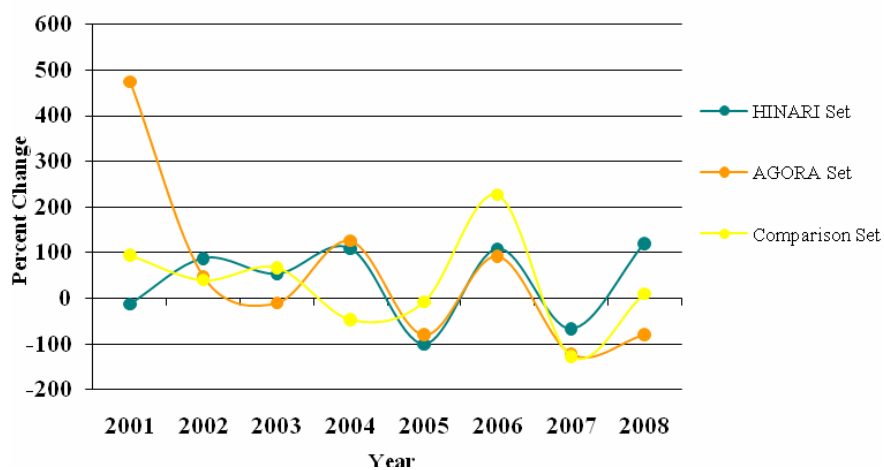


Figure 246. Percent Change in Frequency of Citations Made by Eligible Polynesian Researchers

Table 134. Average Percent Change in Frequency of Citations Made by Eligible Polynesian Researchers

HINARI Change from 2001-2002 to 2003-2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004-2008	AGORA-Comparison Difference 2001-2008
-0.2174	5.0128	-183.2313	24.2058

5.3.1 Samoa

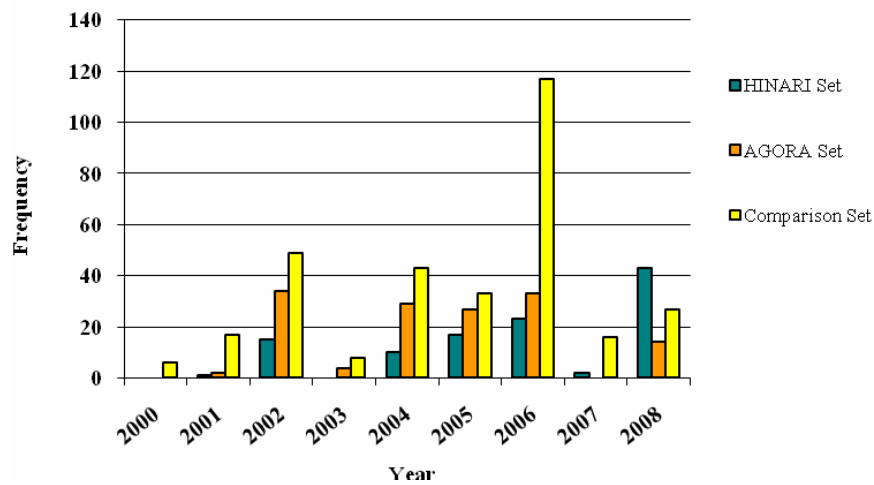


Figure 247. Frequency of Citations Made by Samoa Researchers

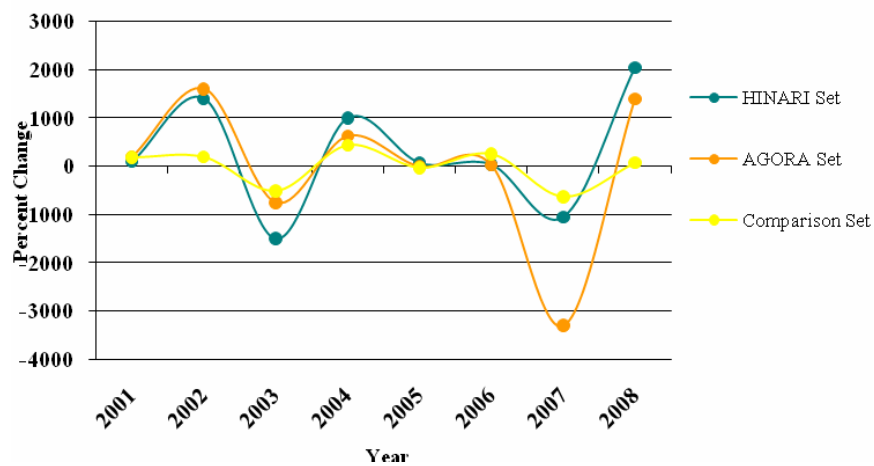


Figure 248. Percent Change in Frequency of Citations Made by Samoa Researchers

Table 135. Average Percent Change in Frequency of Citations Made by Samoa Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
-649.1176	268.3729	-602.0370	-21.0620

5.3.2 Tokelau

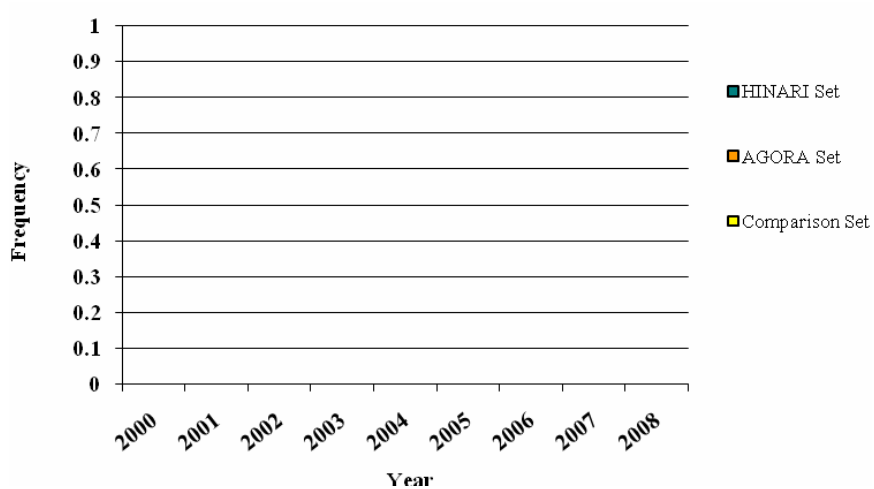


Figure 249. Frequency of Citations Made by Tokelau Researchers

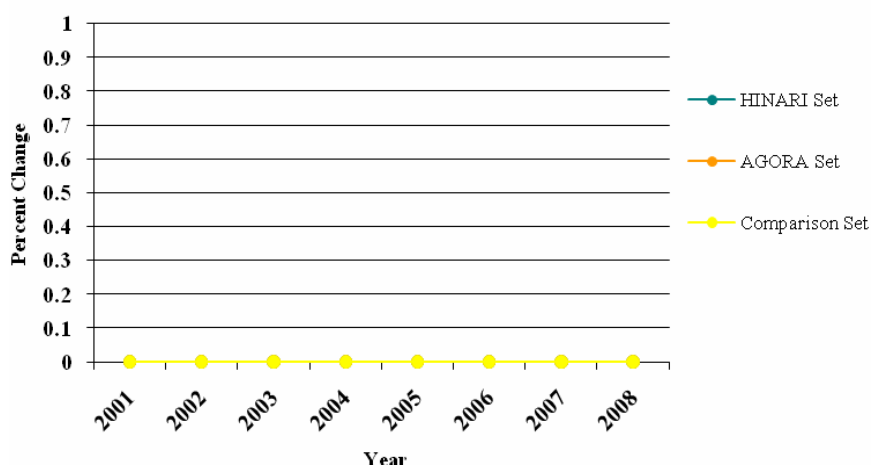


Figure 250. Percent Change in Frequency of Citations Made by Tokelau Researchers

Table 136. Average Percent Change in Frequency of Citations Made by Tokelau Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
0.0000	0.0000	0.0000	0.0000

5.3.3 Tonga

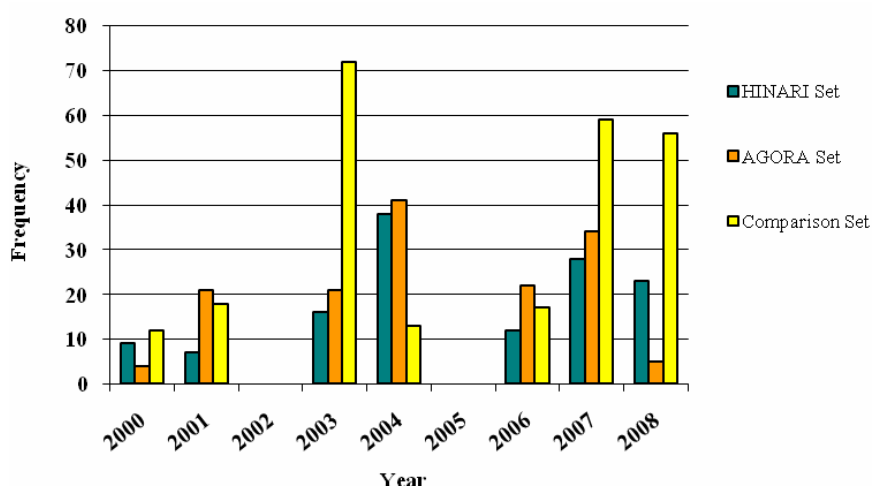


Figure 251. Frequency of Citations Made by Tonga Researchers

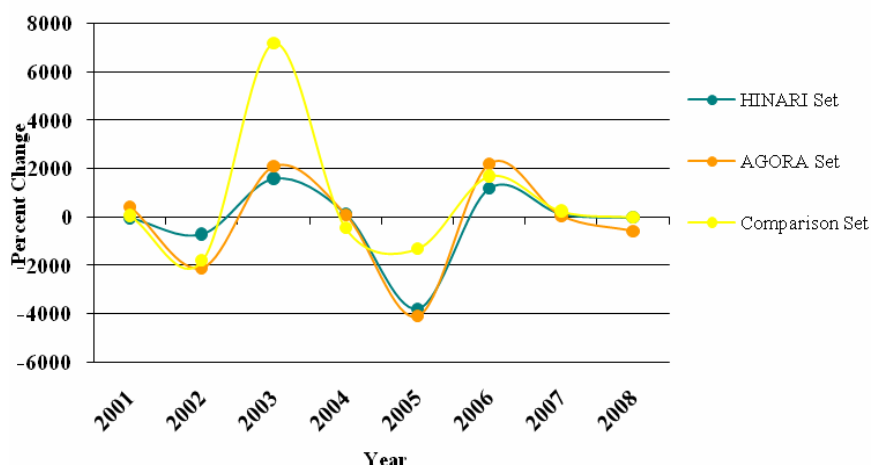


Figure 252. Percent Change in Frequency of Citations Made by Tonga Researchers

Table 137. Average Percent Change in Frequency of Citations Made by Tonga Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
239.1347	-889.6666	-607.7100	-942.8840

5.3.4 Tuvalu

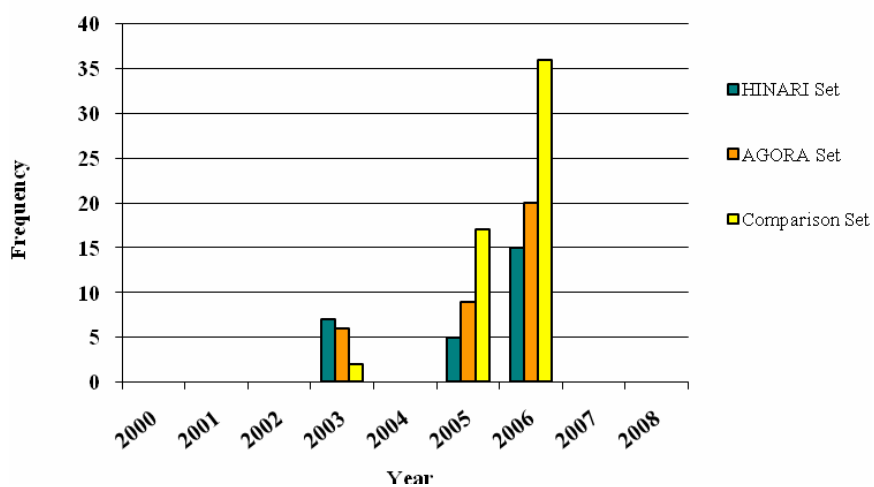


Figure 253. Frequency of Citations Made by Tuvalu Researchers

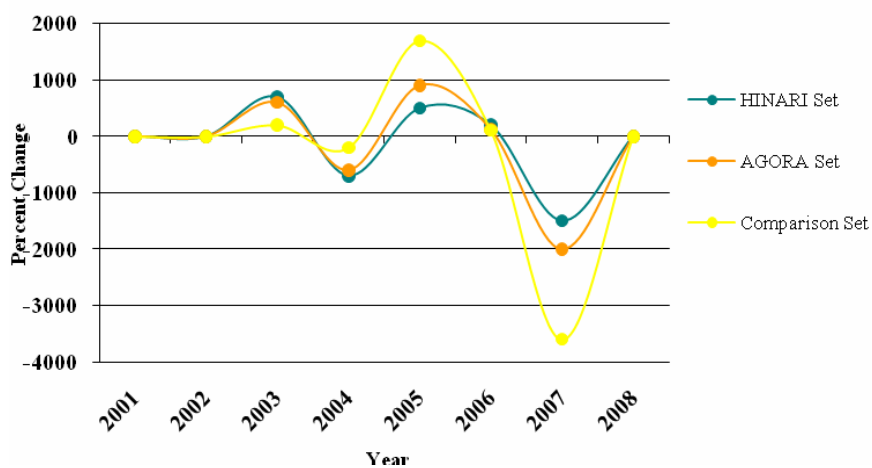


Figure 254. Percent Change in Frequency of Citations Made by Tuvalu Researchers

Table 138. Average Percent Change in Frequency of Citations Made by Tuvalu Researchers

HINARI Change from 2001-2002 to 2003- 2008	HINARI-Comparison Difference 2001-2008	AGORA Change from 2001-2003 to 2004- 2008	AGORA-Comparison Difference 2001-2008
-133.3333	123.5294	-515.5556	101.3072

-
- ⁱⁱ Data for the Middle Africa 2006 and 2007 AGORA set were corrected from the dissertation results.
 - ⁱⁱ Data for the Mali 2007 set were corrected from dissertation results.
 - ⁱⁱⁱ Data for the Polynesia 2007 set were updated from dissertation results.