

APPENDIX II: Refining the search string: search terms and results from Web of Knowledge
The following table lists the search terms tested during the scoping stage.

RESOURCE TERM	INSTITUTION/MANAGEMENT TERMS	OUTCOME TERM
Resource	Institution/al/	Performance
Hydro*	Organisation	Benefit
Water	Policy	Poverty
River	Governance	Poor
Basin	Legislation/Legal/Law	Efficient/Efficiency
Catchment	Reform	Equity/Equitable
Watershed	Administrate/tion	Resilient/ce
Aquifer	Bureaucracy	Vulnerable
Transboundary	Allocate/tion	Sustainable
Groundwater	Market	Capacity
Irrigate/Irrigation	Stakeholder	Access
Lake	Management	Security
‘Soil Water’	Right	Conflict
‘Green Water’	Common	Scarcity
Evapotranspiration	Participation/participatory	Economic
‘groundwater quality protection’	Decentralisation	Livelihood
‘groundwater quality control’	Adapt/Adaptive/Adaptation	Gender
	Sharing	Farm/Farming/Farmer
	Functionality	Cooperation
	Competition	Education
	Regulation	Sanitation
	Distribution	Health
	Pricing	‘Drinking water’
	Arrangement	Pro-Poor
	Demand	Flood
	Availability	Drought
	Abstraction	‘Climate Change’

RESOURCE TERM	INSTITUTION/MANAGEMENT TERMS	OUTCOME TERM
	Association	Quality
		Food
		Livestock
		Scarcity

The following table shows a sample of the iterations of the search string together with changes to the syntax, the number of papers returned, the presence of key authors and any relevant comments. This shows how the search string evolved through the scoping period. Key decisions in this process were to exclude geographic search terms and through the process of narrowing the question, drop terms such related to hydrology, floods and droughts.

SI	Syntax	Change to Syntax	Number of Hits	Key Authors?	Comments
1	(Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Sharing OR Distribut* OR Institut* OR Policy OR Arrangement) AND (Asia* OR ((Latin OR Central OR South) AND America*) OR Africa*) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River*) AND (Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Functionality OR Pro-Poor OR Conflict OR Cooperation OR Competition)		1,371	Few papers by key authors (Saleth, Dinar, Bauer, Rosegrant, Ward, Ringler, Shah etc).	Many relevant papers although very few related to law, economics, reform.
2	(Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Sharing OR Distribut* OR Institut* OR Policy OR Arrangement OR law OR Governance OR economic* OR market* OR participa*) AND (Asia* OR 'Latin America*' OR 'Central America*' OR 'South America*' OR Africa*) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer) AND (Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Functionality OR Pro-Poor OR Conflict OR Cooperation OR Competition)	Added: law, governance, economic*, participa*, aquifer. Removed double brackets and inserted 'Latin America*', 'central America' and 'south America*'	1,529	Few papers by key authors (Saleth, Dinar, Bauer, Rosegrant, Ward, Ringler,	Appear to be quite relevant. Still many on quite technical, hydrological aspects.

SI	Syntax	Change to Syntax	Number of Hits	Key Authors?	Comments
				Shah etc).	
3	(Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Sharing OR Distribut* OR Institut* OR Policy OR Arrangement OR law OR Governance OR economic* OR market* OR participa* OR Decentrali* OR Reform*) AND (Asia* OR 'Latin America*' OR 'Central America*' OR 'South America*' OR Africa*) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer) AND (Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Functionality OR Pro-Poor OR Conflict OR Cooperation OR Competition)	Added: Decentrali*, reform*	1,530		
4	(Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Sharing OR Distribut* OR Institut* OR Policy OR Arrangement OR law OR Governance OR economic* OR market* OR participa* OR Pric*) AND (Asia* OR 'Latin America*' OR 'Central America*' OR 'South America*' OR Africa*) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer) AND (Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Functionality OR Pro-Poor OR Conflict OR Cooperation OR Competition)	removed: Decentrali* and Reform*, added pric*	1,531		Decentralisation, pricing and reform are not very specific search terms and don't bring up further papers.
5	(Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Sharing OR Distribut* OR Institut* OR Policy OR Arrangement OR law OR Governance OR economic* OR market* OR participa* OR Pric*) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer) AND (Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Functionality OR Pro-Poor OR Conflict OR Cooperation OR Competition)	removed geographic criteria: (Asia* OR 'Latin America*' OR 'Central America*' OR 'South America*' OR Africa*)	24,334		Too many hits to assess. Suggest keeping geographic limits in search string. Many relevant papers but there remains a large amount on technical aspects of water management (modelling, agronomy etc) rather than papers focusing on institutions.
6	(Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Functionality OR Pro-Poor OR Conflict OR Cooperation OR Competition) AND (Asia* OR 'Latin America*' OR 'Central America*' OR 'South America*' OR Africa*) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Sharing OR Distribut* OR Institut* OR Policy OR Arrangement OR law OR Governance	Inverted the syntax to test for sensitivity of searching on the basis of outcomes, rather than water terms first.	1,531		By comparing duplicates with earlier searches in EndNote it can be shown that these are an almost identical set of papers. The search function is not sensitive to word the

SI	Syntax	Change to Syntax	Number of Hits	Key Authors?	Comments
	OR economic* OR market* OR participa*)				order in which the string is entered.
7	(Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Functionality OR Pro-Poor OR Conflict OR Cooperation OR Competition) AND (Asia* OR 'Latin America*' OR 'Central America*' OR 'South America*' OR Africa*) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Sharing OR Distribut* OR Institut* OR Policy OR Arrangement OR law OR Governance OR economic* OR market* OR participa* OR right*)	Add 'right*'	1,776	Some but not all key authors.	The term ' Right* ' captures 200 extra papers and should be included in the search string.
8	(Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Functionality OR Pro-Poor OR Conflict OR Cooperation OR Competition) AND (Asia* OR 'Latin America*' OR 'Central America*' OR 'South America*' OR Africa*) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR Arrangement OR law OR Governance OR economic* OR market* OR participa* OR right*)	Removed the term 'sharing'	1,773	Some but not all key authors.	The term ' sharing ' is not particularly sensitive (3 papers out of 1,776) so could be removed from the string.
9	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Functionality OR Pro-Poor OR Conflict OR Cooperation OR Competition) AND (Asia* OR 'Latin America*' OR 'Central America*' OR 'South America*' OR Africa*) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR Arrangement OR law OR Governance OR economic* OR market* OR participa* OR right*)	Added the term 'benefit'	1,816	Some but not all key authors.	Term ' benefit ' captured 30 extra papers and is therefore relatively sensitive. Suggest inclusion in search string.
10	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Functionality OR Pro-Poor OR Conflict OR Cooperation OR Competition) AND (Asia* OR 'Latin America*' OR 'Central America*' OR 'South America*' OR Africa*) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR Arrangement OR law OR Governance OR economic* OR market* OR participa* OR right*)	Added term 'groundwater'	1,962	Some but not all key authors.	Suggest inclusion of term ' groundwater ' despite extra technical papers as there are nearly 150 extra returns.

SI	Syntax	Change to Syntax	Number of Hits	Key Authors?	Comments
11	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Functionality OR Pro-Poor OR Conflict OR Cooperation OR Competition) AND (Asia* OR 'Latin America*' OR 'Central America*' OR 'South America*' OR Africa*) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR Arrangement OR law OR legal OR Governance OR economic* OR market* OR participa* OR right*)	added 'legal'	1,962	Some but not all key authors.	No additional hits - 'legal' will not be included in the search string.
12	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Functionality OR Pro-Poor OR Conflict OR Cooperation OR Competition) AND (Asia* OR 'Latin America*' OR 'Central America*' OR 'South America*' OR Africa*) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR Arrangement OR law OR legisla* Governance OR economic* OR market* OR participa* OR right*)	removed legal and added legisla*	1,968	Some but not all key authors.	An additional 6 papers. Suggest keep but remove if search engines cannot cope with a large number of terms.
13	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Functionality OR Pro-Poor OR Conflict OR Cooperation OR Competition) AND (Asia* OR 'Latin America*' OR 'Central America*' OR 'South America*' OR Africa*) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* Governance OR economic* OR market* OR participa* OR right*)	removed 'arrangement'	1,965	Some but not all key authors.	Removing the term arrangement has very limited effect. Suggest it is not included in search string.
14	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition) AND (Asia* OR 'Latin America*' OR 'Central America*' OR 'South America*' OR Africa*) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* Governance OR economic* OR market* OR participa* OR right*)	removed term 'functionality'	1,963	Some but not all key authors.	functionality has no effect. Suggest remove this from the search string.
15	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition) AND (Asia* OR 'Latin America*' OR 'Central America*' OR 'South America*' OR Africa*) AND (Transboundary OR Basin* OR Catchment	removed term 'distribut*'	1,729	Some but not all key authors.	Returned hits fell by nearly 250 papers. Suggest 'Distribut' is included as a search

SI	Syntax	Change to Syntax	Number of Hits	Key Authors?	Comments
	OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Institut* OR Policy OR law OR legisla* Governance OR economic* OR market* OR participa* OR right*)				term.
16	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Asia* OR 'Latin America*' OR 'Central America*' OR 'South America*' OR Africa*) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribu* OR Institut* OR Policy OR law OR legisla* Governance OR economic* OR market* OR participa* OR right*)	added 'distribut*' and 'poverty'	1,998	Some but not all key authors.	Suggest include term 'poverty'
17	(Benefit OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Asia* OR 'Latin America*' OR 'Central America*' OR 'South America*' OR Africa*) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribu* OR Institut* OR Policy OR law OR legisla* Governance OR economic* OR market* OR participa* OR right*)	Removed the term 'performance'	1,919	Some but not all key authors.	The term 'performance' returns approx 70 papers. Suggest include 'performance'
18	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Asia* OR 'Latin America*' OR 'Central America*' OR 'South America*' OR Africa* OR Nile OR Incomati OR Lake Chad OR Amazon OR Jordan OR Mekong OR Ganges OR Indus OR La Plata) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribu* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*)	added more specific place locations to test sensitivity to location using a few international river basins per continent. Added Nile, Incomati, Lake Chad, Amazon, Jordan, Mekong, Ganges, Indus, La Plata	2,915	Some but not all key authors.	This increased the number of terms markedly. Need to work on more specific location terms. Naming the river basin seems to return a far greater number of papers than naming the continent.
19	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Asia* OR 'Latin America*' OR 'Central America*' OR 'South America*' OR Africa* OR Nile OR Lake Chad OR Amazon OR Jordan OR Mekong OR Ganges OR Indus OR La Plata) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR	Test for location sensitivity: Removed 'Incomati'	2,914	Some but not all key authors.	Suggest remove Incomati as a search term.

SI	Syntax	Change to Syntax	Number of Hits	Key Authors?	Comments
	Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*)				
20	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Asia* OR 'Latin America*' OR 'Central America*' OR 'South America*' OR Africa* OR Nile OR Lake Chad OR Amazon OR Jordan OR Mekong OR Ganges OR Indus) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*)	Test for location sensitivity: removed 'La Plata'	2,895	Some but not all key authors.	Decreases by 20 papers. Low to medium sensitivity. Suggest to include ' La Plata ' if space in search fields.
21	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Asia* OR 'Latin America*' OR 'Central America*' OR 'South America*' OR Africa* OR Brazil OR Nile OR Lake Chad OR Amazon OR Jordan OR Mekong OR Ganges OR Indus) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*)	Test for location sensitivity: added an example country name - Brazil.	3,396	Some but not all key authors.	CONCLUSION: Search sensitive to country names rather than continents.
22	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Asia* OR 'Latin America*' OR 'Central America*' OR 'South America*' OR Africa* OR Brazil OR India OR Nile OR Amazon OR Jordan OR Mekong OR Ganges OR Indus) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*)	Remove Lake Chad and add India	4,176	Some but not all key authors.	
23	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Asia* OR 'Latin America*' OR 'Central America*' OR 'South America*' OR Africa* OR Brazil OR India OR China OR	Add China Remove La Plata	5,893	Some but not all key authors.	Returned hits become dominated by Chinese case study examples. Could be quite difficult

SI	Syntax	Change to Syntax	Number of Hits	Key Authors?	Comments
	Nile OR Amazon OR Jordan OR Mekong OR Ganges OR Indus) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*)				to assess? Many papers appear to be more technical/natural science rather than institutional.
24	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*) AND (('Latin America*' OR 'Central America*' OR 'South America*') OR (Argentina OR Bolivia OR Brazil OR Chile OR Colombia OR Ecuador OR French Guiana OR Guyana OR Paraguay OR Peru OR Suriname))	1st attempt to incorporate long geographic search string requires all location terms to be in 1 field and the remainder to be topic specific. Will Require 4 searches by region as only able to include 18 geographic terms at 1 time (i.e. Country name or river basin).	1,329	Some but not all key authors.	All references were exported to EndNote and duplicates removed. A total of 2,488 hits were returned.
25	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*) AND (('Latin America*' OR 'Central America*' OR 'South America*') OR (Uruguay OR Venezuela OR Belize OR Costa Rica OR El Salvador OR Guatemala OR Honduras OR Mexico OR Nicaragua OR Panama OR Amacuro))	Replaced countries with remaining from list and added 1 river basin.	1,272	Some but not all key authors.	
26	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*) AND (('Latin America*' OR 'Central America*' OR 'South America*') OR (Amazon OR Aviles OR Aysen OR Baker OR Barima OR Cancoso OR Lauca OR Carmen Silva OR Chico OR	Replaced countries with River Basins A-C	723	Some but not all key authors.	

SI	Syntax	Change to Syntax	Number of Hits	Key Authors?	Comments
	Catatumbo OR Chira))				
27	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*) AND (('Latin America*' OR 'Central America*' OR 'South America*') OR (Chuy OR Comau OR Corantijn OR Courantyne OR Cullen OR Essequibo OR Gallegos-Chico OR Jurado OR La Plata OR Lagoon Mirim OR Fagnano))	Replaced with Basins C-F	421	Some but not all key authors.	
28	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*) AND (('Latin America*' OR 'Central America*' OR 'South America*') OR (Titicaca-Poopo OR Maroni OR Mataje OR Mira OR Oiapoque OR Oyupock OR Orinoco OR Palena OR Pascua OR Patia OR Puelo))	replaced with Basins F-P	441	Some but not all key authors.	
29	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*) AND (('Latin America*' OR 'Central America*' OR 'South America*') OR (Titicaca-Poopo OR Maroni OR Mataje OR Mira OR Oiapoque OR Oyupock OR Orinoco OR Palena OR Pascua OR Patia OR Puelo))		552	Some but not all key authors.	
30	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*)	Search for Sub-Saharan Africa by country A-C)	1,315	Some but not all key authors.	Cannot search using French accents. Removed word Cote and

SI	Syntax	Change to Syntax	Number of Hits	Key Authors?	Comments
	AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*) AND ((Africa*) OR (Angola OR Benin OR Botswana OR Burkina Faso OR Burundi OR Cameroon OR Cape Verde OR Central African Republic OR Chad Or Comoros OR Congo))				also inserted option of Ivory Coast. Combined search total for SSA with duplicates removed is 2,732.
31	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*) AND ((Africa*) OR (Côte d'Ivoire OR Democratic Republic of the Congo Or Equatorial Guinea Or Eritrea Or Ethiopia Or Gabon Or Gambia Or Ghana Or Guinea OR Guinea-Bissau OR Kenya))	Searches by Country C-K	1,360	Some but not all key authors.	
32	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*) AND ((Africa*) OR (Lesotho OR Liberia Or Madagascar OR Malawi OR Mali OR Mozambique OR Namibia OR Niger Or Nigeria OR Rwanda Or Sao Tome and Principe))		Unidentified Server Error: only 11 papers retrieved.	Some but not all key authors.	
33	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*) AND ((Africa*) OR Senegal Or Sierra Leone OR Somalia OR South Africa OR Swaziland OR Togo Or Uganda OR United Republic of Tanzania Or Zambia OR Zimbabwe))	Countries S-Z	1,329	Some but not all key authors.	
34	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*)	Replaced country names with River Basin names A-C	1,206	Some but not all key authors.	

SI	Syntax	Change to Syntax	Number of Hits	Key Authors?	Comments
	AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*) AND ((Africa*) OR (Akpa OR Atui OR Awash OR Baraka OR Benito OR Ntem OR Bia OR Buzi OR Cavally OR Cestos OR Chiloango OR Congo OR Zaire OR Corubal))				
35	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*) AND ((Africa*) OR (Cross OR Cuvelai OR Etosha OR Gash OR Geba OR Scarcies OR Incomati OR Juba-Shibeli OR Komoe OR Kunene OR Chad OR Natron OR Turkana))	Changed River Basin Names	2,033	Some but not all key authors.	
36	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*) AND ((Africa*) OR (Limpopo OR Little Scarcies OR Loffa OR Lotagipi Swamp OR Mana-Morro OR Maputo OR Mbe OR Moa OR Mono OR Niger OR Nile))		1,470	Some but not all key authors.	
37	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*) AND ((Africa*) OR (Nyanga OR Ogooue OR Okavango OR Orange OR Oueme OR Ruvuma OR Sabi OR Sassandra OR Senegal OR St. John OR St. Paul OR Tano OR Umba))		1,330	Some but not all key authors.	
38	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*)		1,221	Some but not all key authors.	

SI	Syntax	Change to Syntax	Number of Hits	Key Authors?	Comments
	AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*) AND ((Africa*) OR (Umba OR Umbeluzi OR Utamboni OR Volta OR Zambezi))				
39	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*) AND ((Asia*) OR (Afghanistan OR Armenia OR Azerbaijan OR Bangladesh OR Bhutan Or Cambodia Or China Or Georgia OR India OR Indonesia OR Kazakhstan))	Added Asia and countries a-k	3,722	Some but not all key authors.	Combined total for Asia with duplicates removed is 6,360
40	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*) AND ((Asia*) OR (Kyrgyzstan OR Laos OR Malaysia OR Mongolia OR Myanmar OR Nepal OR North Korea Or Pakistan OR Philippines OR Russia* OR South Korea OR Sri Lanka OR Tajikistan OR Thailand))	Added remaining countries	1,298	Some but not all key authors.	
41	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*) AND ((Asia*) OR (Turkey OR Turkmenistan OR Uzbekistan OR Vietnam OR Iran OR IraqOR Jordan OR Lebanon OR Oman OR Syria OR Yemen OR West Bank OR Gaza OR Palestin*))		1,460	Some but not all key authors.	
42	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Transboundary OR Basin* OR Catchment OR	River Basins A-B	596	Some but not all key authors.	

SI	Syntax	Change to Syntax	Number of Hits	Key Authors?	Comments
	Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*) AND ((Asia*) OR (Amur OR An Nahr Al Kabir OR Aral Sea OR Asi OR Orontes OR Astara Chay OR Atrak OR BahuKalat OR Rudkhanehye OR Bangau OR Bei Jiang))				
43	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*) AND ((Asia*) OR (Amur OR An Nahr Al Kabir OR Aral Sea OR Asi OR Orontes OR Astara Chay OR Atrak OR BahuKalat OR Rudkhanehye OR Bangau OR Bei Jiang))	River Basins B-H	1,433	Some but not all key authors.	
44	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*) AND ((Asia*) OR (Kunes He OR Indus OR Irrawaddy OR Jenisej OR Yenisey OR Jordan OR Kaladan OR Karnaphuli OR Kowl E Namaksar OR Kura-Araks OR Lake Ubsa-Nur))	River Basins K-L	827	Some but not all key authors.	
45	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*) AND ((Asia*) OR (Ma OR Murgab OR Nahr El Kebir OR Ob OR Oral OR Ural OR Pakchan OR Pandaruan OR Pu Lun T'o OR Red OR Song Hong OR Saigon OR Salween))	River Basins L-Sa	1,139	Some but not all key authors.	
46	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Transboundary OR Basin* OR Catchment OR	River Basins S-T	629	Some but not all key authors.	

SI	Syntax	Change to Syntax	Number of Hits	Key Authors?	Comments
	Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*) AND ((Asia*) OR (Samur OR Sembakung OR Sepik OR Song Vam Co Dong OR Sujfun OR Sulak OR Tami OR Tarim OR Terek OR Tigris-Euphrates OR Shatt al Arab OR Tjeroaka-Wanggoe OR Tumen))				
47	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right*) AND ((Asia*) OR (Wadi Al Izziyah OR Yalu))	River Basins T-Y	551	Some but not all key authors.	
48	(Benefit OR Performance OR Quality OR Equit* OR Sustainab* OR Resilience OR Flood* OR Drought* OR Pro-Poor OR Conflict OR Cooperation OR Competition OR Poverty) AND (Asia* OR 'Latin America*' OR 'Central America*' OR 'South America*' OR Africa*) AND (Transboundary OR Basin* OR Catchment OR Watershed OR River* OR Aquifer OR Groundwater) AND (Water OR Hydro*) AND (Resource* OR Management OR Security OR Allocation OR Distribut* OR Institut* OR Policy OR law OR legisla* OR Governance OR economic* OR market* OR participa* OR right* OR irrigation)	Return to generic searches without geographic location filters. Add term irrigation to general search (not split by geographic region) to test sensitivity of term.	2,032	Some but not all key authors.	
1	Water AND Resource* AND Institut* AND Performance	Reduction to most basic search to target most relevant papers.	128	Yes - All	Highly relevant papers.
2	((Water OR Hydro*) AND Resource* AND Institut* AND (Performance OR Management OR Allocation))		1,640	Yes - All	While there are relevant papers, the use of the term 'hydro*' introduces a large number of technical papers on hydrology, modeling and engineering which are

SI	Syntax	Change to Syntax	Number of Hits	Key Authors?	Comments
					not relevant. Suggest this term is dropped from the search syntax.
3	Water AND Resource* AND (Institut* OR Policy OR Governance)	Remove the term 'Hydro*' and experiments with further institution terms.	5,574	Yes-ALL	Highly relevant papers.
4	Water AND Resource* AND (Institut* OR Policy OR Governance OR Law)		6,093	Yes-ALL	Highly relevant papers.
5	Water AND (Resource* OR River OR Basin) AND (Institut* OR Policy OR Governance OR Law)		8,287	Yes-ALL	Highly relevant papers.
6	Water AND (Resource* OR River OR Basin) AND (Institut* OR Policy OR Governance OR Law OR Security)		9,095	Yes-ALL	Relevant papers but larger proportion of irrelevant material.
7	Water AND (Resource* OR River OR Basin) AND (Institut* OR Policy OR Governance OR Law OR Reform)		8,389	Yes-ALL	Mainly relevant papers.
8	Water AND (Resource* OR River OR Basin) AND (Institut* OR Policy OR Governance OR Law OR Reform OR Organisation)		8,578	Yes-ALL	Mainly relevant papers.
9	Water AND (Resource* OR River OR Basin) AND (Institut* OR Policy OR Governance OR Law OR Reform OR Organisation OR Allocation)		10,769	Yes-ALL and a couple of extra papers per key author too.	Mainly relevant papers.
10	Water AND (Resource* OR River OR Basin OR Catchment OR Watershed OR Transboundary OR Groundwater OR Aquifer) AND (Institut* OR Policy OR Governance OR Law OR Reform OR Organisation OR Allocation OR Performance OR Development OR Market OR Economic OR Regulation)		41,618	All	More papers from all the key authors but VAST numbers of papers that are irrelevant.
11	Water AND (Resource* OR River* OR Basin* OR Catchment* OR Watershed OR Transboundary OR Groundwater OR Aquifer) AND (Institut* OR Policy OR Governance OR Law OR Reform OR Organisation OR Allocation OR Market OR Economic OR Regulation OR Legislation OR participat*) AND (Performance OR Development OR Benefit OR Poverty OR Indicator OR Resilience OR Vulnerability OR Sustainab* OR Demand)	(Institut* OR Policy OR Governance OR Law OR Reform OR Organisation OR Allocation OR Market OR Economic OR Regulation OR Legislation	11,233	Most but there are fewer papers for certain key authors	Far fewer papers, good level of relevance.

SI	Syntax	Change to Syntax	Number of Hits	Key Authors?	Comments
		OR participat*) AND (Performance OR Development OR Benefit OR Poverty OR Indicator OR Resilience OR Vulnerability OR Sustainab* OR Demand)		e.g. Molle, Molden, Falkenmark, Dinar.	
12	Water AND (Resource* OR River* OR Basin* OR Catchment* OR Watershed OR Transboundary OR Groundwater OR Aquifer) AND (Institut* OR Policy OR Governance OR Law OR Legislation OR Reform OR Organi*ation OR Allocation OR Market OR Economic OR Regulation OR Legislation OR participat* OR stakeholder) AND (Performance OR Development OR Benefit OR Poverty OR Indicator OR Resilience OR Vulnerability OR Sustainab* OR Demand OR Availability OR Access)	Corrected spelling of groundwater, added wildcards for the term 'organisation' to account for American spelling and added terms: stakeholder, Availability, Access.	12,783	As above.	More relevant than previous search and some key authors now have more papers.
13	Water AND (Resource* OR River* OR Basin* OR Catchment* OR Watershed OR Transboundary OR Groundwater OR Aquifer) AND (Institut* OR Policy OR Governance OR Law OR Legislation OR Reform OR Organi*ation OR Allocation OR Market OR Economic OR Regulation OR Legislation OR participat* OR stakeholder) AND (Performance OR Development OR Benefit OR Poverty OR Indicator OR Resilience OR Vulnerability OR Sustainab* OR Demand OR Availability OR Access OR Security OR Abstraction)	Add term security and Abstraction	12,736		Similar to above but returns greater number of irrelevant technical papers.
14	Water AND (Resource* OR River* OR Basin* OR Catchment* OR Watershed OR Transboundary OR Groundwater OR Aquifer OR Abstraction) AND (Institut* OR Policy OR Governance OR Law OR Legislation OR Reform OR Organi*ation OR Allocation OR Market OR Economic OR Regulation OR Legislation OR participat* OR stakeholder) AND (Performance OR Development OR Benefit OR Poverty OR Indicator OR Resilience OR Vulnerability OR Sustainab* OR Demand OR Availability OR Access OR Security OR Outcome)	Removed 'abstraction' included 'outcome'	13,448		
15	Water AND (Resource* OR River* OR Basin* OR Catchment* OR Watershed OR Transboundary OR Groundwater OR Aquifer OR Abstraction OR Scarcity) AND Market OR Regulat* OR Legislation OR participat* OR stakeholder OR Management OR Irrigation OR Association) AND (Performance OR Development OR Benefit OR Poverty OR Resilience OR Vulnerability OR Sustainab* OR Demand OR Availability OR Access OR Security) NOT (Australia* OR Canada OR Europ* OR France OR 'United Kingdom')	Added new words 'administration' and 'bureaucracy'. Also introduced a NOT phrase to exclude countries such as Australia, Canada and Europ etc.	19,456	14 papers by Molle (as opposed to 6-8 from other searches	Slightly more natural science in first few hits.

SI	Syntax	Change to Syntax	Number of Hits	Key Authors?	Comments
				and 10 from Dinar).	
16	Water AND (Resource* OR River* OR Basin* OR Catchment* OR Watershed OR Transboundary OR Groundwater OR Aquifer OR Irrigation) AND (Institut* OR Policy OR Govern* OR Legislat* OR Reform OR Administrat* OR Bureaucra* OR Allocation OR Market OR Regulat* OR stakeholder OR Management) AND (Performance OR Benefit OR Poverty OR Resilien* OR Vulnerab* OR Sustainab* OR Demand OR Access OR Security OR Conflict) NOT (Australia* OR Canada OR Europ* OR France OR 'United Kingdom' OR Spain OR German* OR California*)		12,897	Many.	
17	Water AND (Resource* OR River* OR Basin* OR Catchment* OR Watershed OR Transboundary OR Groundwater OR Aquifer OR Irrigation) AND (Institut* OR Policy OR Govern* OR Legislat* OR Reform OR Administrat* OR Bureaucra* OR Allocation OR Market OR Regulat* OR stakeholder OR Management) AND (Performance OR Benefit OR Poverty OR Resilien* OR Vulnerab* OR Sustainab* OR Demand OR Access OR Security OR Conflict Or Scarcity) NOT (Australia* OR Canada OR Europ* OR France OR 'United Kingdom' OR Spain OR German* OR California*)	scarcity	13,242		
18	Water AND (Resource* OR River* OR Basin* OR Catchment* OR Watershed OR Transboundary OR Groundwater OR Aquifer OR Irrigation) AND (Institut* OR Policy OR Govern* OR Legislat* OR Reform OR Administrat* OR Bureaucra* OR Allocation OR Market OR Regulat* OR stakeholder OR Management) AND (Performance OR Benefit OR Poverty OR Resilien* OR Vulnerab* OR Sustainab* OR Demand OR Access OR Security OR Conflict Or Scarcity) NOT (Australia* OR Canada OR Europ* OR France OR 'United Kingdom' OR Spain OR German* OR California*)	capacity' instead of 'demand'	13,349	Fewer papers by Molle, Falkenmark etc	
19	Water AND (Resource* OR River* OR Basin* OR Catchment* OR Watershed OR Transboundary OR Groundwater OR Aquifer OR Irrigation) AND (Institut* OR Policy OR Govern* OR Legislat* OR Reform OR Administrat* OR Bureaucra* OR Allocation OR Market OR Regulat* OR stakeholder OR Management) AND(Performance OR Benefit OR Poverty OR Poor OR Efficien* OR Equit* OR Resilien* OR Vulnerab* OR Sustainab* OR Capacity OR Access OR Security OR Conflict Or Scarcity) NOT (Australia* OR Canada OR Europ* OR France OR 'United Kingdom' OR Spain OR German* OR California*)	Poor, Equit* Efficient	17,000	Yes	Very relevant papers

SI	Syntax	Change to Syntax	Number of Hits	Key Authors?	Comments
20	Topic=(Water) AND Topic=((Resource* OR River* OR Basin* OR Catchment* OR Watershed OR Trans?boundary OR Groundwater OR Aquifer)) AND Topic=((Institut* OR Policy OR Govern* OR Legislat* OR Reform OR Administrat* OR Bureaucra* OR Allocat* OR Market* OR Stakeholder OR Management OR Organi?ation* OR Common)) AND Topic=((Performance OR Benefit OR Poverty OR Poor OR Efficien* OR Equit* OR Resilien* OR Vulnerab* OR Sustainab* OR Capacity OR Access OR Security OR Conflict OR Scarcity OR economic))	Removed NOT Terms as this filter will remove papers that compare countries within the scope of reference to developed countries.	21,330		
21	Topic=(Water) AND Topic=((Resource* OR River* OR Basin* OR Catchment* OR Watershed OR Trans?boundary OR Groundwater OR Aquifer)) AND Topic=((Institut* OR Policy OR Govern* OR Legislat* OR Reform OR Administrat* OR Bureaucra* OR Allocat* OR Market* OR Stakeholder OR Management OR Organi?ation* OR Common)) AND Topic=((Performance OR Benefit OR Poverty OR Poor OR Efficien* OR Equit* OR Resilien* OR Vulnerab* OR Sustainab* OR Capacity OR Access OR Security OR Conflict OR Scarcity OR economic)) Refined by: [excluding] Subject Areas=(BIOTECHNOLOGY & APPLIED MICROBIOLOGY OR GENETICS & HEREDITY OR SPORT SCIENCES OR REPRODUCTIVE BIOLOGY OR ENDOCRINOLOGY & METABOLISM OR SPECTROSCOPY OR OBSTETRICS & GYNECOLOGY OR MEDICAL INFORMATICS OR PALEONTOLOGY OR PSYCHOLOGY OR MEDICAL ETHICS OR GASTROENTEROLOGY & HEPATOLOGY OR TROPICAL MEDICINE OR METALLURGY & METALLURGICAL ENGINEERING OR PARASITOLOGY OR MEDICAL LABORATORY TECHNOLOGY OR IMMUNOLOGY OR GERIATRICS & GERONTOLOGY OR ROBOTICS OR VETERINARY SCIENCES OR ARCHAEOLOGY OR DENTISTRY, ORAL SURGERY & MEDICINE)	Experiments with removing papers using subject area filters.	19,204		Many relevant papers but there remain a large number of papers from outside the realm of water management. Suggest experiments with further exclusion filters.
22	Topic=(Water) AND Topic=((Resource* OR River* OR Basin* OR Catchment* OR Watershed OR Trans?boundary OR Groundwater OR Aquifer)) AND Topic=((Institut* OR Policy OR Govern* OR Legislat* OR Reform OR Administrat* OR Bureaucra* OR Allocat* OR Market* OR Stakeholder OR Management OR Organi?ation* OR Common)) AND Topic=((Performance OR Benefit OR Poverty OR Poor OR Efficien* OR Equit* OR Resilien* OR Vulnerab* OR Sustainab* OR Capacity OR Access OR Security OR Conflict OR Scarcity OR economic)) Refined by: [excluding] Subject Areas=(BIOTECHNOLOGY & APPLIED	Added further subject exclusions.	13,738		

SI	Syntax	Change to Syntax	Number of Hits	Key Authors?	Comments
	<p>MICROBIOLOGY OR GENETICS & HEREDITY OR SPORT SCIENCES OR REPRODUCTIVE BIOLOGY OR ENDOCRINOLOGY & METABOLISM OR SPECTROSCOPY OR OBSTETRICS & GYNECOLOGY OR MEDICAL INFORMATICS OR PALEONTOLOGY OR PSYCHOLOGY OR MEDICAL ETHICS OR GASTROENTEROLOGY & HEPATOLOGY OR TROPICAL MEDICINE OR METALLURGY & METALLURGICAL ENGINEERING OR PARASITOLOGY OR MEDICAL LABORATORY TECHNOLOGY OR IMMUNOLOGY OR GERIATRICS & GERONTOLOGY OR ROBOTICS OR VETERINARY SCIENCES OR ARCHAEOLOGY OR DENTISTRY, ORAL SURGERY & MEDICINE) AND [excluding] Subject Areas=(HEALTH CARE SCIENCES & SERVICES OR ENTOMOLOGY OR GENERAL & INTERNAL MEDICINE OR NEUROSCIENCES & NEUROLOGY OR GEOCHEMISTRY & GEOPHYSICS OR OPTICS OR THERMODYNAMICS OR EDUCATION & EDUCATIONAL RESEARCH OR EVOLUTIONARY BIOLOGY OR METEOROLOGY & ATMOSPHERIC SCIENCES OR ELECTROCHEMISTRY OR RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING OR ASTRONOMY & ASTROPHYSICS OR TOXICOLOGY OR SOCIAL WORK OR CHEMISTRY OR MYCOLOGY OR INFECTIOUS DISEASES OR ONCOLOGY OR SURGERY OR ACOUSTICS OR COMPUTER SCIENCE OR NUCLEAR SCIENCE & TECHNOLOGY OR CARDIOVASCULAR SYSTEM & CARDIOLOGY OR MATHEMATICAL & COMPUTATIONAL BIOLOGY OR LEGAL MEDICINE OR DERMATOLOGY OR PATHOLOGY OR ANATOMY & MORPHOLOGY OR HEMATOLOGY OR PEDIATRICS OR RESEARCH & EXPERIMENTAL MEDICINE OR EMERGENCY MEDICINE OR BIOCHEMISTRY & MOLECULAR BIOLOGY OR MICROSCOPY OR POLYMER SCIENCE OR PHYSIOLOGY)</p>				
23	<p>Topic=(Water AND (Resource* OR River* OR Basin* OR Catchment* OR Watershed OR Trans\$boundary OR Groundwater OR Aquifer OR Irrigat*)) AND Topic=((Institut* OR Policy OR Govern* OR Legislat* OR Reform OR Administrat* OR Bureaucra* OR Allocat* OR Market* OR Stakeholder OR Management OR Organi\$ation* OR Common OR Participat* OR Adapt* OR De-centrali*)) AND Topic=((Performance OR Benefit OR Poverty OR Poor OR Efficien* OR Equit* OR Resilien* OR Vulnerab* OR Sustainab* OR Capacity OR Access OR Security OR Conflict* Or Scarcity OR Economic OR</p>	<p>Irrigation (as a WR term) Adapt, de-centrali*</p>	26,350	Yes, all.	<p>Many very relevant papers returned. The addition of 'irrigation' in the WR brings papers on WUAs (no need to add the term 'user' specifically as this would be too general). Suggest</p>

SI	Syntax	Change to Syntax	Number of Hits	Key Authors?	Comments
	Livelihood*))				applying filters to this thread.
24	<p>(Water AND (Resource* OR River* OR Basin* OR Catchment* OR Watershed OR Trans\$boundary OR Groundwater OR Aquifer OR Irrigat*)) AND Topic=((Institut* OR Policy OR Govern* OR Legislat* OR Reform OR Administrat* OR Bureaucra* OR Allocat* OR Market* OR Stakeholder OR Management OR Organi\$ation* OR Common OR Participat* OR Adapt* OR De-centrali*)) AND Topic=((Performance OR Benefit OR Poverty OR Poor OR Efficien* OR Equit* OR Resilien* OR Vulnerab* OR Sustainab* OR Capacity OR Access OR Security OR Conflict* Or Scarcity OR Economic OR Livelihood*))</p> <p>Refined by: [excluding] Subject Areas=(TELECOMMUNICATIONS OR GENETICS & HEREDITY OR BIOPHYSICS OR PLANT SCIENCES OR INFORMATION SCIENCE & LIBRARY SCIENCE OR GENERAL & INTERNAL MEDICINE OR COMMUNICATION OR OCEANOGRAPHY OR NUCLEAR SCIENCE & TECHNOLOGY OR BIOTECHNOLOGY & APPLIED MICROBIOLOGY OR ARCHITECTURE OR METEOROLOGY & ATMOSPHERIC SCIENCES OR PHARMACOLOGY & PHARMACY OR GEOLOGY OR SPORT SCIENCES OR CHEMISTRY OR PEDIATRICS OR TOXICOLOGY OR ENDOCRINOLOGY & METABOLISM OR PATHOLOGY OR MEDICAL LABORATORY TECHNOLOGY OR GEOCHEMISTRY & GEOPHYSICS OR DENTISTRY, ORAL SURGERY & MEDICINE OR PHYSIOLOGY OR GERIATRICS & GERONTOLOGY OR ANATOMY & MORPHOLOGY OR SPECTROSCOPY OR ZOOLOGY OR MATERIALS SCIENCE OR PALEONTOLOGY OR PSYCHOLOGY OR GASTROENTEROLOGY & HEPATOLOGY OR SURGERY OR PARASITOLOGY OR MECHANICS OR COMPUTER SCIENCE OR PHYSICS OR OBSTETRICS & GYNECOLOGY OR BIOCHEMISTRY & MOLECULAR BIOLOGY OR DEVELOPMENTAL BIOLOGY OR THERMODYNAMICS OR CELL BIOLOGY OR MATHEMATICAL & COMPUTATIONAL BIOLOGY OR OPTICS OR VETERINARY SCIENCES OR MEDICAL INFORMATICS OR INSTRUMENTS & INSTRUMENTATION OR RESPIRATORY SYSTEM OR ARCHAEOLOGY OR EVOLUTIONARY BIOLOGY OR HEMATOLOGY OR BEHAVIORAL SCIENCES OR CONSTRUCTION & BUILDING TECHNOLOGY OR MEDICAL ETHICS)</p>		12,471		

SI	Syntax	Change to Syntax	Number of Hits	Key Authors?	Comments
25	(Water AND (Resource* OR River* OR Basin* OR Catchment* OR Watershed OR Trans\$boundary OR Groundwater OR Aquifer OR Irrigat*)) AND Topic=((Institut* OR Policy OR Govern* OR Legislat* OR Reform OR Administrat* OR Bureaucra* OR Allocat* OR Market* OR Stakeholder OR Management OR Organi\$ation* OR Common OR Participat* OR Adapt* OR De-centrali*)) AND Topic=((Performance OR Benefit OR Poverty OR Poor OR Efficien* OR Equit* OR Resilien* OR Vulnerab* OR Sustainab* OR Capacity OR Access OR Security OR Conflict* Or Scarcity OR Economic OR Livelihood* OR Gender))	Stakeholders suggested that we should include 'gender' as part of the outcome search string.	26,432		Relatively small increase in the number of papers.
26	Topic=(Water AND (Resource* OR River* OR Basin* OR Catchment* OR Watershed OR Trans\$boundary OR Groundwater OR Aquifer OR Irrigat*)) AND Topic=((Institut* OR Policy OR Govern* OR Legislat* OR Reform OR Administrat* OR Bureaucra* OR Allocat* OR Market* OR Stakeholder OR Management OR Organi\$ation* OR Common OR Participat* OR Adapt* OR De-centrali*)) AND Topic=((Performance OR Benefit OR Poverty OR Poor OR Efficien* OR Equit* OR Resilien* OR Vulnerab* OR Sustainab* OR Capacity OR Access OR Security OR Conflict* OR Gender OR Scarcity OR Economic OR Livelihood*)) Refined by: [excluding] Subject Areas=(TELECOMMUNICATIONS OR GENETICS & HEREDITY OR CONSTRUCTION & BUILDING TECHNOLOGY OR BIOPHYSICS OR PLANT SCIENCES OR COMMUNICATION OR INFORMATION SCIENCE & LIBRARY SCIENCE OR OCEANOGRAPHY OR MICROBIOLOGY OR NUCLEAR SCIENCE & TECHNOLOGY OR MATHEMATICS OR BIOTECHNOLOGY & APPLIED MICROBIOLOGY OR ARCHITECTURE OR METEOROLOGY & ATMOSPHERIC SCIENCES OR PHARMACOLOGY & PHARMACY OR GEOLOGY OR NEUROSCIENCES & NEUROLOGY OR PEDIATRICS OR SPORT SCIENCES OR CHEMISTRY OR TOXICOLOGY OR REPRODUCTIVE BIOLOGY OR ENDOCRINOLOGY & METABOLISM OR PHILOSOPHY OR PATHOLOGY OR GERIATRICS & GERONTOLOGY OR MEDICAL LABORATORY TECHNOLOGY OR PHYSIOLOGY OR GEOCHEMISTRY & GEOPHYSICS OR TROPICAL MEDICINE OR SPECTROSCOPY OR ZOOLOGY OR ANATOMY & MORPHOLOGY OR DENTISTRY, ORAL SURGERY & MEDICINE OR GASTROENTEROLOGY & HEPATOLOGY OR SURGERY OR PSYCHOLOGY OR PALEONTOLOGY OR PARASITOLOGY OR	With subject filters	11,956	Yes - All	This search returns useful papers and seems to return far fewer irrelevant papers.

SI	Syntax	Change to Syntax	Number of Hits	Key Authors?	Comments
	OBSTETRICS & GYNECOLOGY OR COMPUTER SCIENCE OR DEVELOPMENTAL BIOLOGY OR MECHANICS OR BIOCHEMISTRY & MOLECULAR BIOLOGY OR PHYSICS OR CELL BIOLOGY OR THERMODYNAMICS OR OPTICS OR MATHEMATICAL & COMPUTATIONAL BIOLOGY OR VETERINARY SCIENCES OR RESPIRATORY SYSTEM OR HEMATOLOGY OR MEDICAL INFORMATICS OR EVOLUTIONARY BIOLOGY OR ARCHAEOLOGY OR BEHAVIORAL SCIENCES OR MEDICAL ETHICS)				
	Topic=(Water AND (Resource* OR River* OR Basin* OR Catchment* OR Watershed* OR Transboundary OR Groundwater OR Aquifer OR Irrigat* OR Lake)) AND Topic=((Institut* OR Policy OR Govern* OR Legislat* OR Reform OR Administrat* OR Bureaucra* OR Allocat* OR Market* OR Stakeholder OR Manage* OR Organisation* OR Common OR Participat* OR Adapt* OR Decentrali*)) AND Topic=((Performance OR Benefit OR Poverty OR Poor OR Efficien* OR Equit* OR Resilien* OR Vulnerab* OR Sustainab* OR Capacity OR Access OR Security OR Conflict* OR Scarcity OR Economic OR Livelihood* OR Gender))	Re-introduced 'Lake' term. Also reduced the number of wildcard entries due to lemmitization/ UKUSA	67,490		Much too large a search. Need to apply filters.
	Topic=(Water AND (Resource* OR River* OR Basin* OR Catchment* OR Watershed* OR Transboundary OR Groundwater OR Aquifer OR Irrigat* OR Lake)) AND Topic=((Institut* OR Policy OR Govern* OR Legislat* OR Reform OR Administrat* OR Bureaucra* OR Allocat* OR Market* OR Stakeholder OR Manage* OR Organisation* OR Common OR Participat* OR Adapt* OR Decentrali*)) AND Topic=((Performance OR Benefit OR Poverty OR Poor OR Efficien* OR Equit* OR Resilien* OR Vulnerab* OR Sustainab* OR Capacity OR Access OR Security OR Conflict* OR Scarcity OR Economic OR Livelihood* OR Gender)) Refined by: [excluding] Subject Areas=(ENVIRONMENTAL SCIENCES ECOLOGY OR ZOOLOGY OR FOOD SCIENCE TECHNOLOGY OR RESPIRATORY SYSTEM OR PATHOLOGY OR PALEONTOLOGY OR BIODIVERSITY CONSERVATION OR TELECOMMUNICATIONS OR MARINE FRESHWATER BIOLOGY OR GEOCHEMISTRY GEOPHYSICS OR CARDIOVASCULAR SYSTEM CARDIOLOGY OR OCEANOGRAPHY OR IMAGING SCIENCE PHOTOGRAPHIC TECHNOLOGY OR TOXICOLOGY OR MATHEMATICS OR UROLOGY NEPHROLOGY OR PHARMACOLOGY PHARMACY OR BIOPHYSICS OR BIOCHEMISTRY	Applied subject filters	13,689		Search returns reduced to manageable level. Key authors present.

SI	Syntax	Change to Syntax	Number of Hits	Key Authors?	Comments
	MOLECULAR BIOLOGY OR PHYSICS OR METEOROLOGY ATMOSPHERIC SCIENCES OR ARCHITECTURE OR MATHEMATICAL COMPUTATIONAL BIOLOGY OR PARASITOLOGY OR GENERAL INTERNAL MEDICINE OR PHYSIOLOGY OR INSTRUMENTS INSTRUMENTATION OR NUCLEAR SCIENCE TECHNOLOGY OR LIFE SCIENCES BIOMEDICINE OTHER TOPICS OR INFORMATION SCIENCE LIBRARY SCIENCE OR GEOLOGY OR GASTROENTEROLOGY HEPATOLOGY OR RADIOLOGY NUCLEAR MEDICINE MEDICAL IMAGING OR ONCOLOGY OR DEVELOPMENTAL BIOLOGY OR DENTISTRY ORAL SURGERY MEDICINE OR PSYCHOLOGY OR MEDICAL LABORATORY TECHNOLOGY OR PLANT SCIENCES OR PEDIATRICS OR EVOLUTIONARY BIOLOGY OR DERMATOLOGY OR ANATOMY MORPHOLOGY OR CONSTRUCTION BUILDING TECHNOLOGY OR BIOTECHNOLOGY APPLIED MICROBIOLOGY OR COMMUNICATION OR CHEMISTRY OR OPTICS OR REMOTE SENSING OR AUTOMATION CONTROL SYSTEMS OR REPRODUCTIVE BIOLOGY OR IMMUNOLOGY OR GERIATRICS GERONTOLOGY OR ENDOCRINOLOGY METABOLISM OR VETERINARY SCIENCES OR THERMODYNAMICS OR MINING MINERAL PROCESSING OR MECHANICS OR MICROBIOLOGY OR TRANSPORTATION OR COMPUTER SCIENCE OR MATERIALS SCIENCE OR TROPICAL MEDICINE OR BEHAVIORAL SCIENCES OR CELL BIOLOGY OR OBSTETRICS GYNECOLOGY OR INFECTIOUS DISEASES OR SURGERY OR NEUROSCIENCES NEUROLOGY OR HEMATOLOGY OR GENETICS HEREDITY)				
	Water AND (Resource* OR River* OR Basin* OR Catchment* OR Watershed* OR Transboundary OR Groundwater OR Aquifer OR Irrigat* OR Lake) AND (Institut* OR Policy OR Govern* OR Legislat* OR Reform OR Administrat* OR Bureaucra* OR Allocat* OR Market* OR Stakeholder OR Manage* OR Organisation* OR Common OR Participat* OR Adapt* OR Decentrali*) AND (Performance OR Benefit OR Poverty OR Poor OR Efficien* OR Equit* OR Resilien* OR Vulnerab* OR Sustainab* OR Capacity OR Access OR Security	Stakeholder suggested 'groundwater quality protection' OR 'groundwater quality control'. Tested in WoK 12.09.11	67,491		Very few results related to groundwater protection returned when terms used in conjunction with the remainder of search string. Searches for groundwater terms alone

SI	Syntax	Change to Syntax	Number of Hits	Key Authors?	Comments
	OR Conflict* OR Scarcity OR Economic OR Livelihood* OR Gender OR 'groundwater quality protection'OR 'groundwater quality control')				produce numerous technical papers that are not relevant to this systematic review. Suggest search terms are not included.
	Water AND (Resource* OR River* OR Basin* OR Catchment* OR Watershed* OR Transboundary OR Groundwater OR Aquifer OR Irrigat* OR Lake) AND (Institut* OR Policy OR Govern* OR Legislat* OR Reform OR Administrat* OR Bureaucra* OR Allocat* OR Market* OR Stakeholder OR Manage* OR Organisation* OR Common OR Participat* OR Adapt* OR Decentrali*) AND (Performance OR Benefit OR Poverty OR Poor OR Efficien* OR Equit* OR Resilien* OR Vulnerab* OR Sustainab* OR Capacity OR Access OR Security OR Conflict* OR Scarcity OR Economic OR Livelihood* OR Gender OR farm OR farmer OR food OR crop OR livestock)	Stakeholder suggested adding terms: 'farm OR farmer OR food OR crop OR livestock'. Groundwater specific terms deleted.	99,243		This results in large numbers of irrelevant papers, and additional technical papers on soil management.
	Water AND (Resource* OR River* OR Basin* OR Catchment* OR Watershed* OR Transboundary OR Groundwater OR Aquifer OR Irrigat* OR Lake) AND (Institut* OR Policy OR Govern* OR Legislat* OR Reform OR Administrat* OR Bureaucra* OR Allocat* OR Market* OR Stakeholder OR Manage* OR Organisation* OR Common OR Participat* OR Adapt* OR Decentrali*) AND (Performance OR Benefit OR Poverty OR Poor OR Efficien* OR Equit* OR Resilien* OR Vulnerab* OR Sustainab* OR Capacity OR Access OR Security OR Conflict* OR Scarcity OR Economic OR Livelihood* OR Gender OR farm)	Deleted 'farmer, food, crop, livestock)	71,624		Reduces the number of technical papers and irrelevant papers. Suggest include 'FARM'
	Water AND (Resource* OR River* OR Basin* OR Catchment* OR Watershed* OR Transboundary OR Groundwater OR Aquifer OR Irrigat* OR Lake) AND (Institut* OR Policy OR Govern* OR Legislat* OR Reform OR Administrat* OR Bureaucra* OR Allocat* OR Market* OR Stakeholder OR Manage* OR Organisation* OR Common OR Participat* OR Adapt* OR Decentrali*)	Added 'drinking water' OR sanitation OR health OR nutrition OR education"	152,632		Large number of returns and many unrelated papers, particularly on WASH.

SI	Syntax	Change to Syntax	Number of Hits	Key Authors?	Comments
	AND (Performance OR Benefit OR Poverty OR Poor OR Efficien* OR Equit* OR Resilien* OR Vulnerab* OR Sustainab* OR Capacity OR Access OR Security OR Conflict* OR Scarcity OR Economic OR Livelihood* OR Gender OR farm OR 'drinking water' OR sanitation OR health OR nutrition OR education)				
	Water AND (Resource* OR River* OR Basin* OR Catchment* OR Watershed* OR Transboundary OR Groundwater OR Aquifer OR Irrigat* OR Lake) AND (Institut* OR Policy OR Govern* OR Legislat* OR Reform OR Administrat* OR Bureaucra* OR Allocat* OR Market* OR Stakeholder OR Manage* OR Organisation* OR Common OR Participat* OR Adapt* OR Decentrali*) AND (Performance OR Benefit OR Poverty OR Poor OR Efficien* OR Equit* OR Resilien* OR Vulnerab* OR Sustainab* OR Capacity OR Access OR Security OR Conflict* OR Scarcity OR Economic OR Livelihood* OR Gender OR farm OR evapotranspiration OR soil water OR green water)	evapotranspiration/soil water/green water	160, 166		Large number of additional papers on technical/natural aspects of agricultural management.
	Topic=(Water AND (Resource* OR River* OR Basin* OR Catchment* OR Watershed* OR Transboundary OR Groundwater OR Aquifer OR Irrigat* OR Lake)) AND Topic=((Institut* OR Policy OR Govern* OR Legislat* OR Reform OR Administrat* OR Bureaucra* OR Allocat* OR Market* OR Stakeholder OR Manage* OR Organisation* OR Common OR Participat* OR Adapt* OR Decentrali*)) AND Topic=((Performance OR Benefit OR Poverty OR Poor OR Efficien* OR Equit* OR Resilien* OR Vulnerab* OR Sustainab* OR Capacity OR Access OR Security OR Conflict* OR Scarcity OR Economic OR Livelihood* OR Gender OR Farm*)) Refined by: [excluding] Subject Areas=(ENVIRONMENTAL SCIENCES ECOLOGY OR RESPIRATORY SYSTEM OR FOOD SCIENCE TECHNOLOGY OR MATERIALS SCIENCE OR PATHOLOGY OR PALEONTOLOGY OR BIODIVERSITY CONSERVATION OR TELECOMMUNICATIONS OR MARINE FRESHWATER BIOLOGY OR ENERGY FUELS OR CARDIOVASCULAR SYSTEM CARDIOLOGY OR HEALTH CARE SCIENCES SERVICES OR GEOCHEMISTRY GEOPHYSICS OR TOXICOLOGY OR PHARMACOLOGY PHARMACY OR UROLOGY NEPHROLOGY OR OCEANOGRAPHY OR IMAGING SCIENCE PHOTOGRAPHIC TECHNOLOGY OR MATHEMATICS OR BIOPHYSICS OR BIOCHEMISTRY MOLECULAR BIOLOGY OR PARASITOLOGY OR GENERAL INTERNAL MEDICINE OR METEOROLOGY	Final String	72,977 prior to filtering, 13,594 after subject filters applied.		

SI	Syntax	Change to Syntax	Number of Hits	Key Authors?	Comments
	ATMOSPHERIC SCIENCES OR PHYSICS OR PHILOSOPHY OR MATHEMATICAL COMPUTATIONAL BIOLOGY OR ARCHITECTURE OR LIFE SCIENCES BIOMEDICINE OTHER TOPICS OR GASTROENTEROLOGY HEPATOLOGY OR NUCLEAR SCIENCE TECHNOLOGY OR PHYSIOLOGY OR INSTRUMENTS INSTRUMENTATION OR INFORMATION SCIENCE LIBRARY SCIENCE OR GEOLOGY OR RADIOLOGY NUCLEAR MEDICINE MEDICAL IMAGING OR ONCOLOGY OR DEVELOPMENTAL BIOLOGY OR NUTRITION DIETETICS OR PSYCHOLOGY OR DERMATOLOGY OR PLANT SCIENCES OR PEDIATRICS OR MEDICAL LABORATORY TECHNOLOGY OR FISHERIES OR EVOLUTIONARY BIOLOGY OR DENTISTRY ORAL SURGERY MEDICINE OR ANATOMY MORPHOLOGY OR OPTICS OR CHEMISTRY OR VETERINARY SCIENCES OR COMMUNICATION OR BIOTECHNOLOGY APPLIED MICROBIOLOGY OR CONSTRUCTION BUILDING TECHNOLOGY OR REPRODUCTIVE BIOLOGY OR GERIATRICS GERONTOLOGY OR ENDOCRINOLOGY METABOLISM OR REMOTE SENSING OR AUTOMATION CONTROL SYSTEMS OR ENTOMOLOGY OR IMMUNOLOGY OR THERMODYNAMICS OR MECHANICS OR INFECTIOUS DISEASES OR MINING MINERAL PROCESSING OR TROPICAL MEDICINE OR MICROBIOLOGY OR TRANSPORTATION OR COMPUTER SCIENCE OR CELL BIOLOGY OR HEMATOLOGY OR BEHAVIORAL SCIENCES OR OBSTETRICS GYNECOLOGY OR NEUROSCIENCES NEUROLOGY OR SURGERY OR GENETICS HEREDITY)				