

## APPENDIX A

### SEARCHES DONE FOR SQI LITERATURE PROJECT

between September and December 2003

AGRICOLA (10 years retrospective)  
CAB ABSTRACTS (10 years retrospective)  
SCISEARCH - SCIENCE CITATION INDEX

NEOS/UNIVERSITY OF ALBERTA LIBRARY CATALOGUE  
UNIVERSITY OF CALGARY LIBRARY CATALOGUE  
UNIVERSITY OF LETHBRIDGE LIBRARY CATALOGUE  
THE ALBERTA LIBRARY - CONSORTIUM CATALOGUE  
ALBERTA AGRICULTURE, FOOD & RURAL DEVELOPMENT CATALOGUE/HOLDINGS  
ALBERTA ENVIRONMENT CATALOGUE/HOLDINGS  
AGRICULTURE CANADA LIBRARY, VIA CISTI-CAL  
UNITED STATES DEPT. OF AGRICULTURE'S USDA-ARS TEKTRAN search  
NATIONAL LIBRARY OF CANADA / Canadian Institute of Scientific and Technical Information CISTI  
U. S. NATIONAL AGRICULTURE LIBRARY -- NAL CATALOGUE  
LIBRARY OF CONGRESS CATALOGUE

INTERNET: ASKJEEVES, GOOGLE, MSN search engines  
www AGENCIES' PUBLICATIONS: FAO, OECD, WORLD BANK  
AAFRD, USDA-ARS, NRCS, Soil Tilth Laboratory --STL, Soil Quality Institute  
Universities' websites: California, Idaho, Illinois, Iowa, Mississippi, Nebraska, Wisconsin  
Other Countries coverage:  
Germany, Italy, Poland, Portugal, Russia, Spain, Sweden, Switzerland  
Australia, New Zealand, Scotland, Wales, United Kingdom  
Argentina, Brazil, Ecuador, Uruguay, Paraguay, Mexico  
China, Phillipines  
India, Iraq, Pakistan

(The following databases could also be added to project searching, given further research/time; or if more international leads to SQI foreign-language publications and grey literature is needed:)

AGRIS INTERNATIONAL  
BIOSIS  
CONFERENCE PAPERS INDEX  
EI COMPENDEX  
ELSEVIER BIOBASE  
ENVIRONMENTAL BIBLIOGRAPHY  
EMBASE  
ENVIROLINE  
LIFE SCIENCES  
PAIS  
PASCAL

## APPENDIX A-2

### AGRICOLA -- Search History

Search History September 5, 2003 (clh)  
\* #6 #5 not #1 (60 records) [saved]  
#5 'soil index\*' or 'soil indices' (66 records) [saved]  
#4 soil\* and (index\* or indices) (6278 records)\*\*\*\*[could explore further....]  
#3 soil\* qual\* (590 records)  
\* #2 (SOIL-HEALTH) or (SOIL-QUALITY) or (SOIL-QUALITY-ASSESSMENT) or (SOIL-QUALITY-CLASSIFICATION) or (SOIL-QUALITY-INDEX) or (SOIL-QUALITY-INDEXXES) or (SOIL-QUALITY-INDICATORS) (49 records) [saved]  
#1 soil\* qual\* and (index\* or indices) (66 records) [saved]

Search History October 18, 2003 (clh)  
\* #2 'Doran-JW' in AU (64 records) [saved]  
#1 ((AU=Doran) in AU,CA) and (English in la) (172 records)

Search History December 01, 2003 (clh)  
\* #3 (rangeland\* or 'range land\*') and #1 (1 record) [saved]  
#2 (riparian or catchment) and #1 (1 record) [saved]  
#1 'soil quality' and assessment (76 records) [saved]

Search History December 01, 2003 (clh)  
\* #7 #5 and #2 (62 records) [saved]  
#6 #2 and #5 (62 records)  
#5 #4 and soil\* (538 records)  
#4 rangeland\* or 'range land\*' (2957 records)  
#3 #1 and #2 (71 records) [saved]  
#2 quality or assessment\* (61420 records)  
#1 riparian and soil\* (328 records)

Search History December 02, 2003 (clh)  
\* #2 'soil quality' and German in LA (0 records)  
#1 (('soil quality') in DE,ID) and (German in la) (0 records)

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### SCIENCE CITATION INDEX -- Search History

Some experts pursuing SQI research are John Doran and Susan Andrews of the USDA-ARS, Julian Dumanski for the World Bank. ONE SEARCH IN SCIENCE CITATION INDEX should get the majority of those interested in SQIndexing:

**Who has been citing the article below?** Published 1994 (work done in 1992).

**Defining and assessing soil quality** / by Doran, John W. and Parkin, T. B., Pages 3-22 IN: SSSA Special Publication no.35 entitled: Defining soil quality for a sustainable environment / edited by Doran, J. W./Coleman, D. C./Bezdicsek, D. F./Stewart, B. A. Soil Science Society of America, Inc. “

OCT 01 '03 03:47 SEARCHED DATABASE = **Science Citation Index-EXPANDED;**

**Timespan=1992-2003 Results (Articles 1 - 40+30)**

**Cited Reference Search Results-Summary,** October 1, 2003 by AAFRD Library

Cited Author=Doran J\* or Doran John W AND Cited Year=1994

Translation: between 1992 and 2003, Doran & Parkin's article was cited @70 times, according to SCIENCE CITATION INDEX (a database of ISI).

**SEARCHES FROM FILE 50, DIALOG : CAB ABSTRACTS** © 2003 Dialog, a Thomson business

Search #1: Soil Quality (Index(es) or (Indice(s) And pub > 1988  
Not Soil Quality Monitor(ing) Not articles from Agricola

Search #2: Soil Quality Assessment OR Soil Health  
And Indicator(s) or Indice(s) or Index(es) And Published after 1988  
NOT Search #1 or (Soil quality monitoring)  
Not articles included on Agricola

Search #3: Land Quality AND Index(es) OR Indice(s) OR Indicator(s) And Published after 1988  
Not results from Searches #1 and #2  
Not results from search on Agricola

Search #4: Soil quality (3n) indicator? ?

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**HIT RATES ON PRELIMINARY SQI (Database) Searches:**

Commercial/Agricultural databases:

AGRICOLA 66 + 49 + 64 + 62 + 71 + 44 + 60 + 76 + 8 = **500** LESS OVERLAP  
CAB 63 + 44 + 34 + 99 + 101 = **341** scanned, LESS OVERLAP for duplicates

LIBRARY CATALOG searches:

CISTI-CAL catalogs **87** less overlap [leads --not in SQ 'Park' but should be...]  
UofA/NEOS/Alberta AG LIB catalog/ **118**  
(including Olds College, Lakeland College/Alberta Environment/ARC)  
UofLethbridge **12**  
UofCalgary **26** ('leads', mainly mining/contamination)  
LCC @ **130** less overlap (@10-15% only; the rest are 'leads' or not relevant)

Publications Lists of Agencies 100s.....from @ 12 sites...[global in scope]

People's Bibliographies/References Cited lists:

From Jody's bibliography re SQ Monitoring, incorporated **157** items on indexes/indicators.  
..Davidson; others 100s...(less overlap)

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## INTERNET/WEB searches:

### MSN Searches:

"soil quality"	= 26,004	September 7, 2003
"soil quality indicator "	= 44	
"soil quality indicators"	= 350	
"soil quality index"	= 81	
"soil quality indexes"	= 4	
"soil quality indices"	= 46	
"soil health"	= 6,513	

with some overlap of search results (to be analyzed as to percentage...)

### Google Searches

"soil quality"	= 115,000	September 7, 2003
"soil quality indicator"	= 270	
"soil quality indicators"	= 1,670	
"soil quality index"	= <b>478</b>	
"soil quality indexes"	= <b>22</b>	
"soil quality indices"	= <b>246</b>	
"soil health"	= 21,700	

**--with @50% overlap of search results**

"soil" and within for "indices"	= 169,000	Oct.13, 2003
"suelos" and "indice*" [Spanish]	= <b>13</b> items	
"qualidade de solo" [Portuguese]	= @154 hits	Oct.04, 2003

**AltaVista** searches on "soil quality indices" (with overlap) = **117**

**AskJeeves** searches [tested for overlapping citations]

"soil quality index"	= <b>212</b>	
"soil quality indices" OR "indicators"	= 155 WITH OVERLAP	

--Only **88** relevant to project

- **44** overlapped thereafter with above sources...