

SADC REGIONAL PROGRAMME FOR RHINO CONSERVATION

TRAFFIC RHINO HORN AND PRODUCT DATABASE (RHPD) OPERATIONAL GUIDELINES (version 1.2)

Simon Milledge
TRAFFIC East/Southern Africa

*Improving security and management
of rhino horn stocks in SADC rhino range states
Semester 5 task 3.1-1.1*



COOPERAZIONE
ITALIANA

ITALIAN COOPERATION

AID 5064



IUCN
The World Conservation Union



SPECIES SURVIVAL COMMISSION
AFRICAN RHINO SPECIALIST GROUP

PUBLICATION CREDITS:

Title: TRAFFIC Rhino Horn and Product Database (RHPD): Operational Guidelines (version 1.2)
Author: Simon Milledge
Date: June 2002
Special acknowledgements: TRAFFIC

This report is an output from a task of the **SADC Regional Programme for Rhino Conservation**

ABOUT the SADC Regional Programme for Rhino Conservation:

The Programme is funded by the Italian Ministry of Foreign Affairs, Directorate General for Development Cooperation (Project AID 5064).

The Programme is contracted to CESVI and implemented through a regional consortium which comprises:

- The Secretariat of the Southern Africa Development Community (SADC)
- IUCN-ROSA (The World Conservation Union - Regional Office for Southern Africa)
- The IUCN African Rhino Specialist Group
- WWF-SARPO - (World Wide Fund for Nature - Southern Africa Regional Programme Office)
- CESVI (Cooperazione e Sviluppo)

The *Programme goal* is to contribute to maintain viable and well distributed metapopulations of Southern African rhino taxa as flagship species for biodiversity conservation within the SADC region.

The *Programme objective* is to implement a pragmatic regional rhino strategy within the SADC region following the acquisition of sound information on, firstly, the constraints and opportunities for rhino conservation within each range state and secondly, the constraints and opportunities for rhino metapopulation management at the regional level.

DISCLAIMER

The information, opinions and materials presented herewith do not necessarily reflect the official views of any of the organisations involved, including the Italian Ministry of Foreign Affairs, SADC, CESVI, IUCN-ROSA, WWF-SARPO, AfRSG or governments of SADC member countries.

CONTACT DETAILS FOR THE PROGRAMME:

Dr. Rob Brett
SADC Regional Rhino Programme Coordinator
IUCN-ROSA
6 Lanark Road Belgravia PO Box 745 Harare,
Zimbabwe
Tel: 263-4-728266 Fax: 263-4-720738
Email: robb@iucnrosa.org.zw

SADC Secretariat
Directorate of Food, Agriculture and Natural
Resources
P O Box 0095 Gaborone Botswana

CESVI Zimbabwe Office
9 Northwood Rise, Mt Pleasant, Harare,
Zimbabwe
TEL/ FAX: 263-4-882243, 884492, 850898
EMAIL: cesvi@africaonline.co.zw

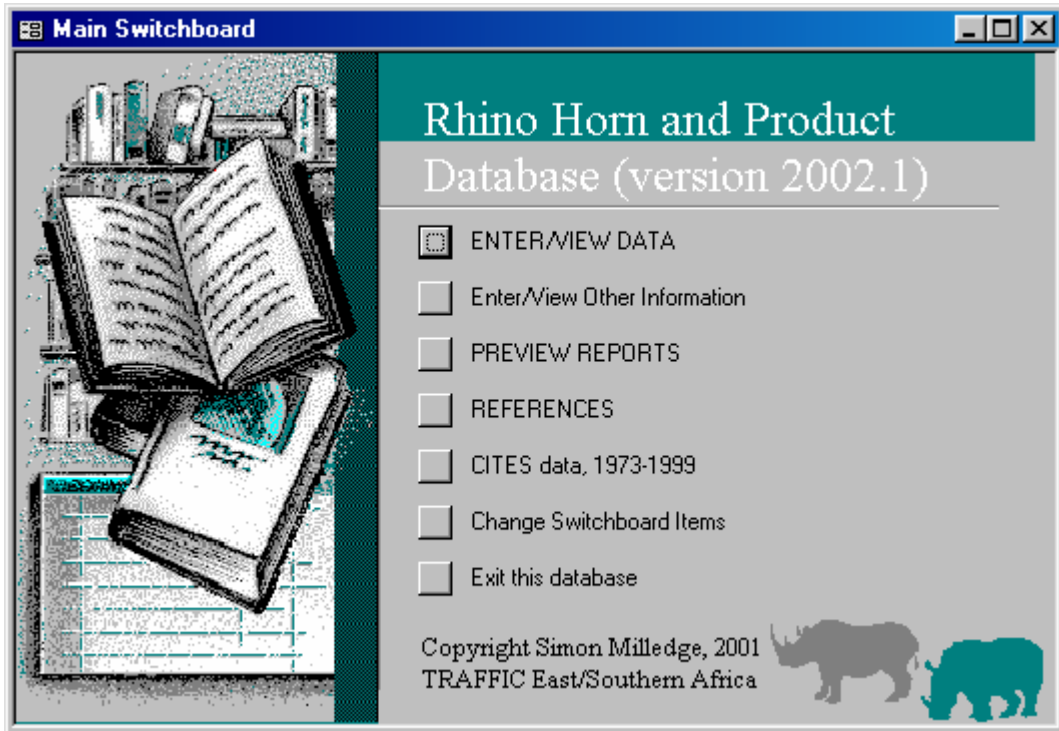
Ministero degli Affari Esteri
Direzione Generale per la Cooperazione allo
Sviluppo, Unità Tecnica Centrale
Viale Contarini (angolo Viale Farnesina)
00194 ROMA ITALY

PROGRAMME WEB SITE:

We invite you to visit our web site : www.rhino-sadc.org

1 RHPD MAIN SWITCHBOARD

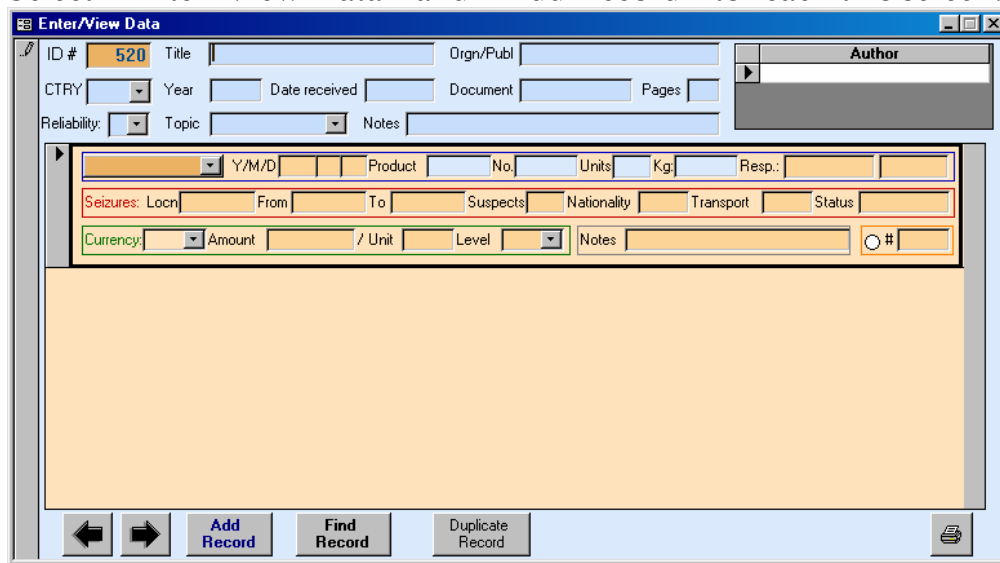
After opening the RHPD by clicking on the desktop icon the main menu looks as follows:



This screen allows access to the five main components of the database: Entering and viewing data; Entering and viewing other information; Report production; References; and CITES data. Use the mouse for navigation and <Tab> and <Shift> <Tab> to move between boxes.

2 ENTER/VIEW DATA

Select <Enter/View Data> and <Add Record> to reach this screen:



The Enter/View Data screen is divided into four main sections. Document details such as title, year, reliability and authorship are included in the top section; detailed descriptions of specific horn-related information is entered in the middle section; and the bottom section consists of various controls.

2.1 TOP SECTION: DOCUMENT DETAILS

ID# (autonumber)

As soon as you start entering information, the computer will automatically allocate a record identification number. This number should be written on the top right hand corner of the front page of the document for reference purposes.

Country (required)

Type in the two-letter ISO code for the country the document refers to. The computer automatically selects the country as letters are entered. However, in case of uncertainty the drop-down menu can be selected to view the full country names. This two-letter ISO country code should also be written in the bottom right corner of the front page of the document hard copy. It is recommended to file all documents for each country together, in order of ID#.

It should be noted that one particular document may have rhino related information pertinent to more than one country. In these cases, a separate entry (i.e. separate ID#) should be used for each country. This therefore requires a photocopy to be made for each country referred to.

Reliability (required)

This box is used to ascertain the accuracy or reliability of the data, useful in later analyses. Insert 1,2 or 3 depending on the source of data as follows:

- 1 Very reliable source (e.g. government wildlife or enforcement authority)
- 2 Reliable source (e.g. published scientific literature, TRAFFIC)
- 3 Least reliable source (e.g. newspapers, newsletters)

Title (required)

Type the title of the report, book, publication, newspaper article, etc. In the case of returned stock questionnaires or seizure forms, the phrase “Stock questionnaire” or “Seizure form” should be entered. Type ‘Untitled’ if there is no title.

Year (required)

The year in which the document was written should be entered here. Note that this is not necessarily the same as the year of the actual data itself. For example, a report produced in 2001 may include data from 1999 and 2000. The year should be entered as four digits, e.g. 1999.

Date received

The date of the document is inserted here if applicable. The full date is better known for documents such as newspaper articles, faxes and letters than reports and other publications. The format accepted is day/month/year (e.g. 02/04/00).

Topic

Using the drop-down menu, choose from one of the following options which best summarises the nature of the document:

Captive breeding	Illegal	Museums
Poaching	Populations	Private
Seizures	Stocks	Stocks & Seizures

If you choose to type in the topic, the computer automatically selects the correct topic as letters are entered. If none of the above apply to the document, another topic can be entered into the database by navigating to <Enter/View Other Information> and <Enter/View Topics> – section 3.

Organisation/Publication

In the case of published information, type the name of the publisher or the name of the journal or newspaper. For unpublished information, the name of the organisation or equivalent should be entered here. Details should include the volume, issue and page numbers, for example:

TRAFFIC Bulletin 14:1(37)
Pachyderm 11(23-25)

Document

The type of document is entered here. Generally, documents fall into one of the following:

Questionnaire	Form	Journal
Publication	Document	Newsletter
Newspaper	Email	Letter
Fax	Web site	Press release
Personal observation	Personal communication	

On occasion, it is necessary to combine document types, for example 'Questionnaire & Email' or 'Questionnaire and 2 letters'.

Pages

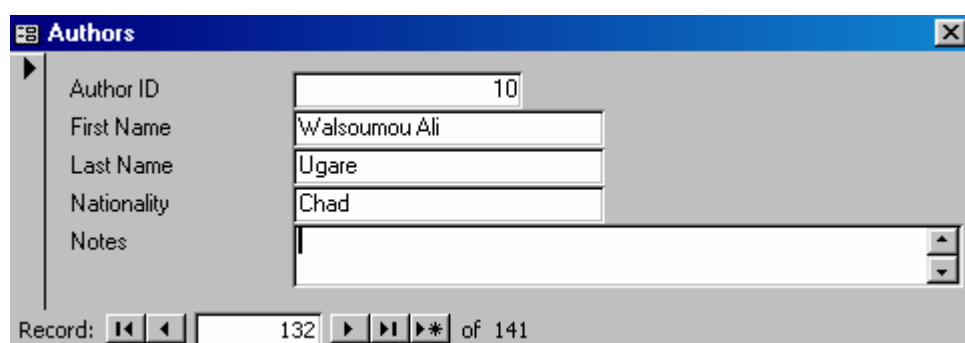
The total number of pages in the document is entered in this space.

Notes

Use this section to include any other relevant document details.

Author

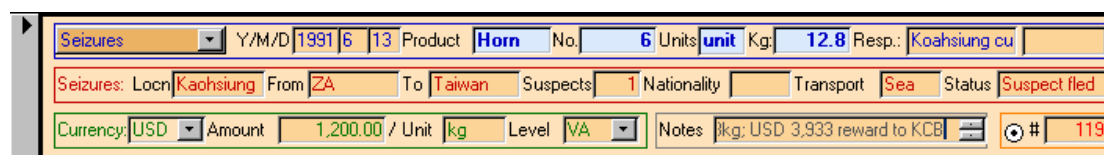
In the top right corner of the document details section, the author(s) details should be entered. Start by entering the surname of the first author and the computer should automatically complete the name as more letters are typed. If the computer does not contain the author details (the drop-down box can be used to help), double-click on the empty space and another box will appear labelled 'Authors'.



Enter the authors' names, nationality and any other notes accordingly. Once completed, close the 'Authors' box and enter the authors' details as detailed above. Repeat the process if the document has more than one author. If the document is not authored, select 'Anon'.

2.2 MIDDLE SECTION: DETAILED DESCRIPTIONS

After completing the document details, specific horn-related information should be entered in the middle section. The number of entries in this middle section is unlimited.



Each entry is made up of three lines.

The first line (inside blue box) is used for more general information:

Description

The first box should contain the most appropriate description of the data. The computer should automatically complete the description as more letters are typed, or alternatively the drop-down box can be used. Choose from one of the following:

Stocks held	information on government and private stockpiles
Stocks destroyed	information on destruction (e.g. burning) of stock
Stocks stolen	information on thefts from stockpiles
Stocks returned	information on stocks returned, either to stockpiles or to private individuals following a court case
Stocks sold	information on stocks sold legally
Seizures	information on seizures of illegal consignments
Dehorning	information on de-horning exercises
Found	information on rhino horn found
Captive	information on captive populations
Wild	information on wild populations
Other	other information
Poaching	information on poaching incidents
Illegal trade	general information on illegal trade dynamics
Reintroduction	information on re-introductions
Exported	information on export statistics
Imported	information on import statistics

Date

Next, enter the year of the data event, e.g. year of seizure; year of survey data. If known, the month and day should also be entered.

Products

This box is used for the item or product being described. For stock and seizure entries, this normally refers to one of the following:

Horn	Skin	Medicine	
Ear	Skull	Nail	Teeth

Alternatively, if the entry refers to a live population, reintroduction or poaching figures, one of the following may be used:

Rhino	Black	White
Indian	Sumatran	Javan

Number

Enter the total number of items described in the products box above.

Units

Select appropriate units. In the case of stocks and seizures, the most common units include:

Unit	Pcs	Pkts
Bottles	Boxes	

Other units used in relation to populations include:

Live	Carcass
------	---------

Kg

If known, enter the quantity in kilogrammes. Use up to two decimal figures.

Responsibility

The owner or location (in the case of stocks and populations) or agency responsible (in the case of seizures) should be entered here. For example, Pilanesburg NP, Police, Customs, Private sector, Kenya Wildlife Service, etc.

Seizures

The second line of each entry (inside red box) is used exclusively for seizures. In the appropriate boxes, detailed information is entered concerning: the location of the seizure; country of origin of seized products; country of destination of seized products; number of suspects; nationality of suspects; mode of transport; and status of case.

Price

Any reference to price information is entered in the third line (inside green box). Information that should be entered here includes:

Currency	use drop-down box to help
Amount	use up to two decimal places
Units	enter most appropriate units (e.g. kg, pc, animal, etc.)
Level	this is used to represent the level of trade. Use the drop-down menu to select one of the following:

PO	Poacher
MR	Middleman in range State
MT	Middleman in transit country
MC	Middleman in consumer country
MA	Manufacturer
RE	Retailer
ST	Sting operation

VA Valuation
EX Exporter
WH Wholesaler

Notes

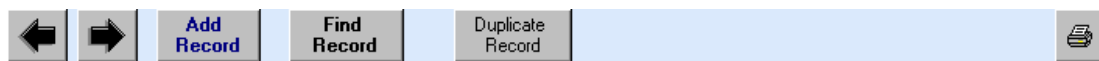
Include any other useful notes in this box, such as other contraband seized, smuggling techniques, names of people, etc..

Superseded entries

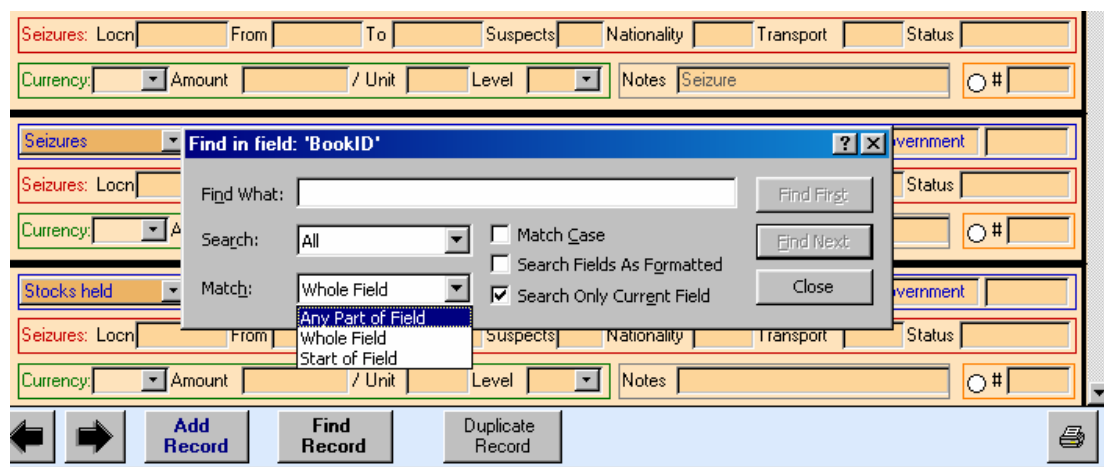
In the bottom right of each entry (inside red box) there is a check box which should be ticked if the entry is superseded by an entry from a different document (i.e. different ID#). In many cases, two or more entries from different documents may refer to the same incident; one is likely to be more reliable (see above) or accurate and should supersede the other. After checking this box, the ID# of the more accurate or relevant document should be entered in the adjacent box. This information becomes very important during reconciliation of entries – see section 4.1.

2.3 BOTTOM SECTION: CONTROLS

Finally, at the bottom of the Enter/View Data page, there are various controls that allow you to move forward and backward through documents, add a new record, print the page and duplicate an existing record (useful to save time when one document refers to more than one country).

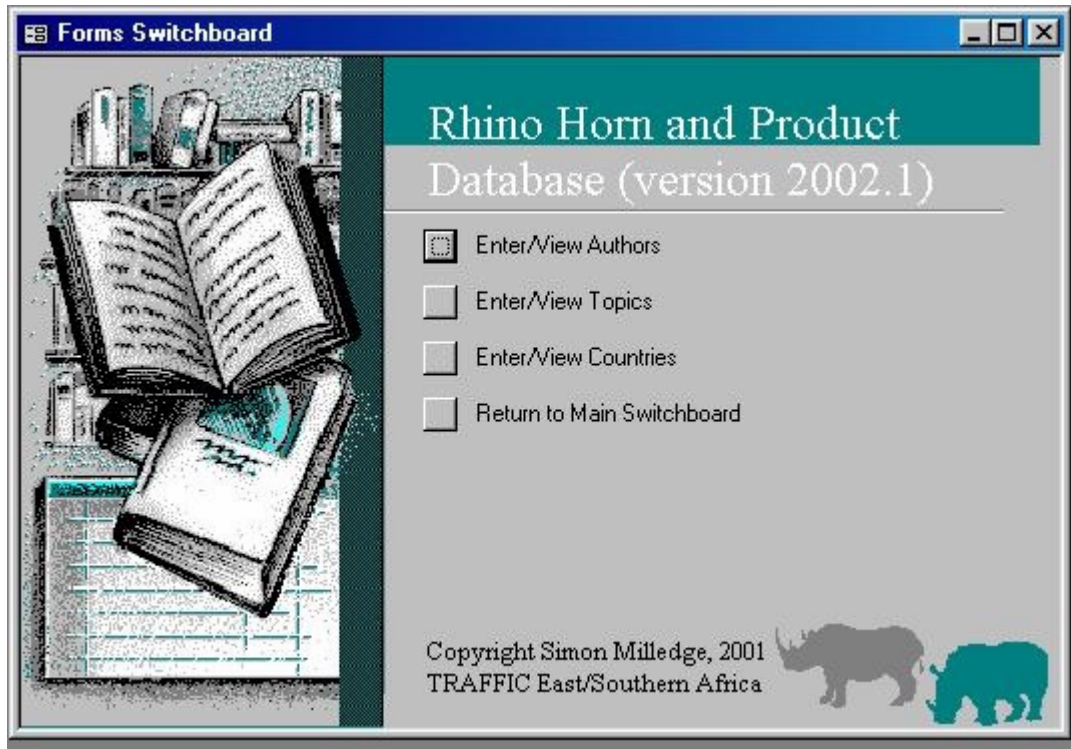


The <Find Record> function can be used to search through records. Before selecting this function, put the cursor on the field that you want to search, for example the <Title> or <Orgn/Publ>.



3 ENTER/VIEW OTHER INFORMATION

The second component appearing on the main menu allows the user to view, add or modify other important database information including authors, topics and countries.



3.1 ENTER/VIEW AUTHORS

The screenshot shows a window titled "Authors" with the following fields:

- Author ID: 69
- First Name: [Empty]
- Last Name: [Empty]
- Nationality: [Empty]
- Notes: [Empty]

At the bottom, there are navigation controls: "Record: [Previous] [Next] 1 [End] of 141".

3.2 ENTER/VIEW TOPICS

The screenshot shows a window titled "Topics" with the following fields:

- Topic ID: 1
- Topic: Stocks

At the bottom, there are navigation controls: "Record: [Previous] [Next] 1 [End] of 10".

3.3 ENTER/VIEW COUNTRIES

The screenshot shows a window titled "iso-codes" with the following fields:

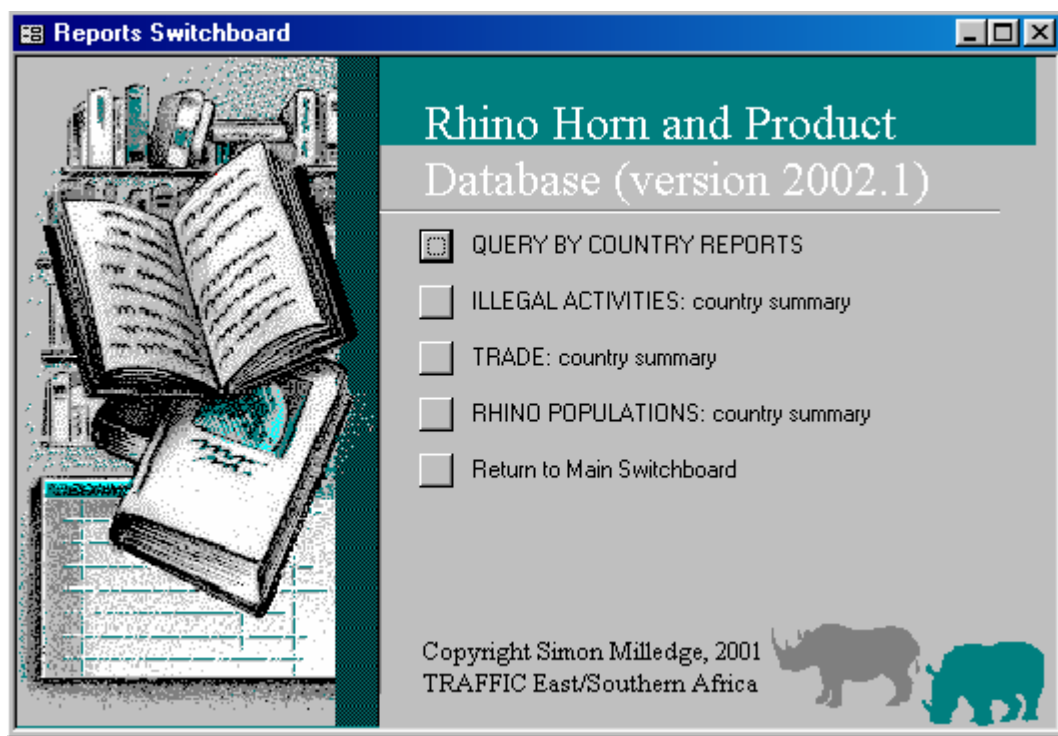
- CODE: AD
- COUNTRY: Andorra

At the bottom, there are navigation controls: "Record: [Previous] [Next] 1 [End]".

4 PREVIEW REPORTS

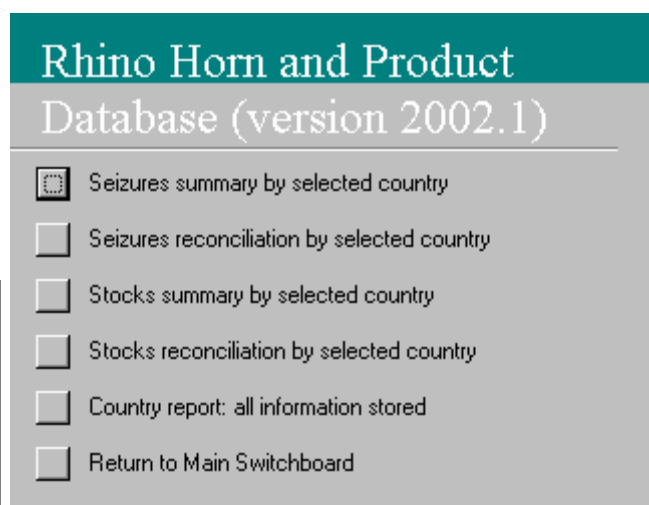
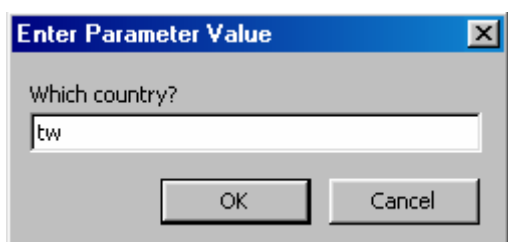
The RHPD has built in numerous queries, some still under development, that are linked to automatic reports. Other queries, not linked to reports, are not included in this version of the operational guidelines (version 1.2). The same applies to data export to GIS applications. These will be covered in a future version of the RHPD operational guidelines.

The main report menu contains four choices: Query by country; Illegal activities; Trade; and Rhino populations.



4.1 QUERY BY COUNTRY REPORTS

A further five report types are available when <Query by Country Reports> is selected. After selecting a report type, the two-digit ISO country code should be entered.



The two reconciliation reports (stocks and seizures) are used to reconcile entries in the RHPD, i.e. to ensure that there is no double counting and that the most reliable and accurate pieces of information are recognised.

TRAFFIC Rhino Horn and Product Database - Reconciliation

TW Taiwan

Date	Product	Reference	Quantity	Weight	Owner	Notes
Stocks destroyed						
/ /		488 <input checked="" type="checkbox"/> 502 (1)				Destroyed on six occasions
2001 / /	Horn	488 <input checked="" type="checkbox"/> 512 (1)			970 Private	Registered
2000 / /	Horn	512 <input type="checkbox"/> (2)			967.328 Total	
1999 / /	Horn	512 <input type="checkbox"/> (2)			970.628 Total	
1996 / /	Horn	480 <input checked="" type="checkbox"/> 511 (3)			1736	registered since 1989; NB figures do not seem to match other data
1994 /12 /17	Horn	481 <input type="checkbox"/> (2)	314 parts	76.68 households		2nd review registration
1994 /12 /17	Horn	481 <input type="checkbox"/> (2)	277 pcs	379.70 households		2nd review registration
1994 /12 /17	Horn	481 <input type="checkbox"/> (2)		1059.99		Total registered and marked after 1st and 2nd review
1994 /12 /17	Horn	481 <input type="checkbox"/> (2)		457.99 households		2nd review registration total
1994 /11 /	Horn	480 <input checked="" type="checkbox"/> 481 (3)		457.99		Marked, measured, photographed and entered into database
1994 /8 /20	Horn	511 <input type="checkbox"/> (2)		601.69 Private		1st registration total, registered (35% of original stock, represents 1720kg total), remaining 2 consumed, 4% (68.8kg) lost, 33% (567.6kg) unknown, 5% (86kg) due to different weight measures
1994 /8 /20	Horn	481 <input checked="" type="checkbox"/> 511 (2)		601.69		1st review registration total
1994 /8 /20	Horn	480 <input checked="" type="checkbox"/> 481 (3)		602		registered (35% of original stock, represents 1720kg total), remaining 23% (395.6kg) consumed, 4% (68.8kg) lost, 33% (567.6kg) unknown, 5% (86kg) due to different weight measures

The data is automatically sorted in order of data description, date and product. This report should then be printed out in Microsoft Word and the reconciliation process is conducted manually. If entries are repeated, tick the box and note the more relevant or accurate reference ID#. Sometimes, a new entry may have to be made to incorporate the details from several other, similar entries. After manually completing the reconciliation process – using the hard copies as reference material – any changes are then made directly in the RHPD using the <Enter/View Data> page. The relevant summary report is then selected from the <Query by Country Report> menu.

TRAFFIC Rhino Horn and Product Database

TW - Taiwan

	Number	Weight	Owner	Notes
STOCKS DESTROYED				
Horn				
1993	Subtotal: 18			
4 / 6 / 1993	18 unit	40		From #502, 135
1992	Subtotal: 20			
28 / 2 / 1992	20 unit	28.25		Burnt at Kaohsiung, from #502, 136
1991	Subtotal: 22			
5 / 10 / 1991	15 unit	39.9		Burnt at Keelung, all seizures from Taipei (9 horns, 22.1kg) & Kaohsiung (6 horns, 17.8kg)
30 / 1 / 1991	7 unit	6		Burnt at Tamsui, all seizures from Taipei Customs
STOCKS HELD				
Horn				
2000	Subtotal:			
/ / 2000		967.328	Total	
1999	Subtotal:			
/ / 1999		970.628	Total	
1994	Subtotal: 391			
17 / 12 / 1994	314 parts	76.68 households		2nd review registration
17 / 12 / 1994	277 pcs	379.70 households		2nd review registration

This summary report automatically removes the superseded entries (although leaves references to them) and summarises the most up to date information in order of description, year and product. The same process is used for reconciling and printing out summary country reports for both stock information and seizure information.

The <Country Report: All Information Stored> report contains all information pertaining to the chosen country, including reconciled and non-reconciled entries.

4.2 OTHER REPORTS

A further three reports may be selected which present the following information in order of country:

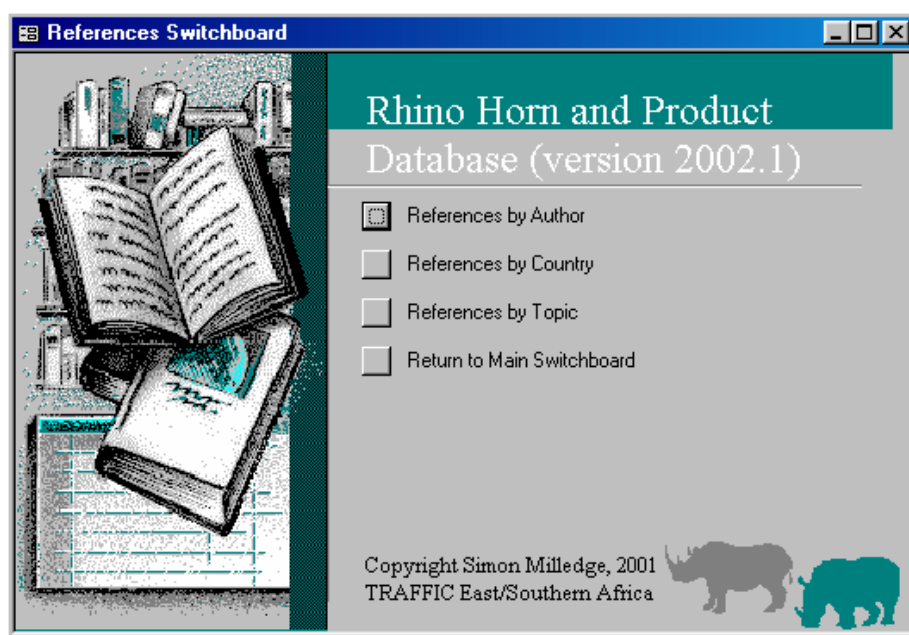
Illegal Activities – all data on seizures, thefts, poaching, intelligence, etc.

Trade – legal trade, imports and exports of live rhinos and trophies

Rhino Populations – wild and captive numbers, translocations, etc.

5 REFERENCES

The reference menu allows three separate reference reports to be viewed and printed:



These reports allow documents to be indexed rapidly according to author, country or topic:

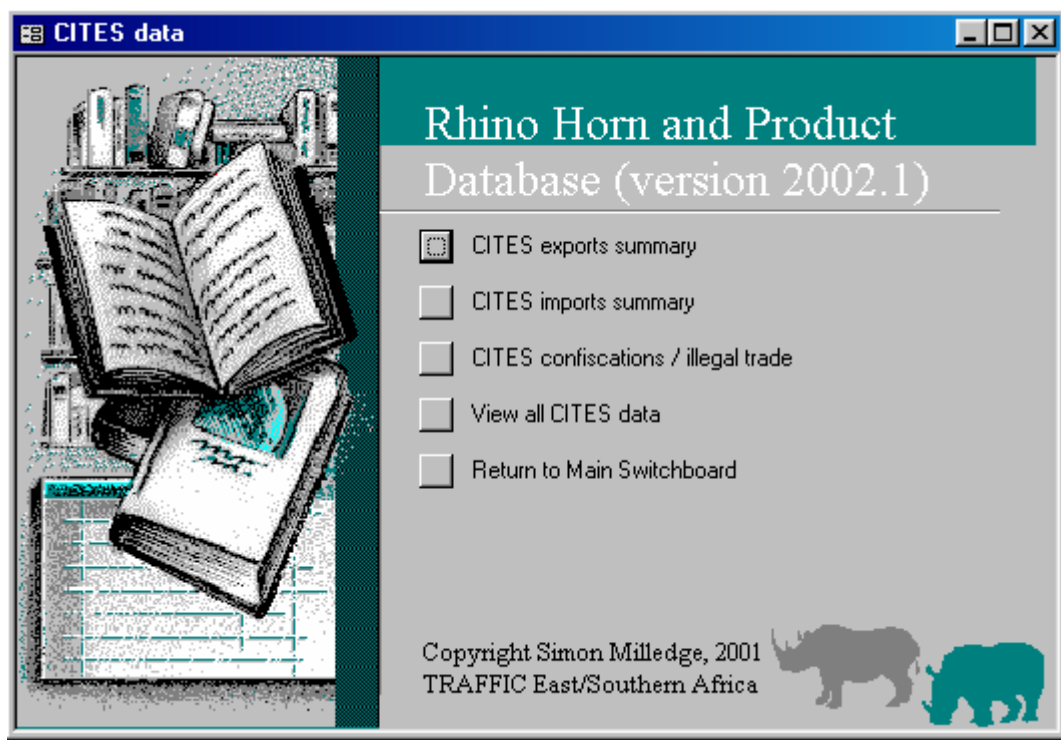
Name of author (any)	Year	Title of document	Organisation / Publisher	Topic	Type of document	Country	#	P
Blom, J	2000	Stock questionnaire	Free State	Stocks	Questionnaire	ZA	62	
Bodasing, Ashish	1999	Botswana Rhino Horn Stock	TRAFFIC E/S Africa	Stocks	Fax	BW	9	
Boing, W	2001	Report for Free State Province	Free State Province	Illegal	Report	ZA	416	Rep
Borner, Marcus	1983	Selous Aerial Survey 1981	Pachyderm 1:7	Populations	Journal	TZ	469	
Brand, Reinhard	2000	Stock questionnaire	CITES MA	Stocks	Questionnaire & letter	AT	6	
Brett, Rob	1998	Development of a Recovery Plan for the Western Black Rhinoceros	WWF	Populations	Document	CF	348	
	1998	Development of a Recovery Plan for the Western Black Rhinoceros	WWF	Populations	Document	CM	347	
	1991	Kenya Rhino Project Annual Report	Kenya Wildlife Service	Stocks	Document	KE	39	

References by Country

Country	#	Topic	Year	Title	Name of authors	Organisation / Publisher	Type of document
AO							
	349	Populations	1999	African Rhino	Brooks, Martin	IUCN Switzerland and UK	Publication
	349	Populations	1999	African Rhino	Enslie, Richard	IUCN Switzerland and UK	Publication
	232	Stocks & Seizures	1982	Run Rhino Run	Martin, Chysee Bradley	Chatto & Windus, London	Publication
	232	Stocks & Seizures	1982	Run Rhino Run	Martin, Esmond Bradley	Chatto & Windus, London	Publication
AT							
	6	Stocks	2000	Stock questionnaire	Brand, Reinhard	CITES MA	Questionnaire & letter
BE							
	7	Stocks	2000	Stock questionnaire	Hermans, Paul	CITES & Veterinary officer	Email
	27	Seizures	1995	Belgium	Anonymous,	TRAFFIC Bulletin 15:2(92)	Journal
	28	Seizures	1993	Belgium	Anonymous,	TRAFFIC Bulletin 13:3(108)	Journal

6 CITES DATA

The RHPD currently contains all CITES permit data from 1973 to 1999 but can be updated automatically from outputs delivered from UNEP-WCMC who manages the CITES permit database on behalf of the CITES Secretariat.



Four reports are produced from this menu, summarising all exports (data presented by both importing and exporting countries), imports (data presented by both importing and exporting countries), confiscated items and all data listed in order of year and taxon.

CITES Rhino horn and product exports

Country Summary

EXPORTING COUNTRY	DESCRIPTION	Declared exports	Exports according to importing nations
AE	horn products		3
	horns		100

AS	derivatives		
----	-------------	--	--

AT	horn carvings	1	
	horns	23	
	trophies	1	

CITES Rhino horn and product imports

Country Summary

IMPORTING COUNTRY	DESCRIPTION	Declared imports	Imports according to exporting nations
AR	horns		4
	trophies		5
AT	horns	32	23
	trophies	17	24

AT			4
----	--	--	---

CITES Rhino horn and product confiscations

Country Summary

Source of data	Description	Importing country	Exporting country	Country of origin	Exports/Imports	Quantity	Unit	Year
CA	derivatives	CA	XX		Imp data	200	boxes	1986
	horn carvings	CA	XX		Imp data	1		1985
	horn scraps	CA	XX		Imp data	9	boxes	1982

CZ	derivatives							
----	-------------	--	--	--	--	--	--	--

Year	Taxon	Data type	Source of data	Importer	Exporter	Origin	Term	Quantity	Unit	Purpose	Source
1976	Ceratotherium simum	Imp data	ZA	ZA	MW		horns	1			
1979	Ceratotherium simum	Imp data	ZA	ZA	NA		horns	57			
1979	Ceratotherium simum	Imp data	ZA	ZA	NA		horns	17	kg		
1979	Ceratotherium simum	Imp data	ZA	ZA	NA		horns	2			
1979	Ceratotherium simum	Imp data	ZA	ZA	ZM		horns	32			
1979	Ceratotherium simum	Imp data	ZA	ZA	ZW		horns	17			
1981	Ceratotherium simum	Imp data	ZA	ZA	GB		horns	1		P	
1981	Ceratotherium simum	Imp data	HK	HK	XX		horns	4			I
1981	Ceratotherium simum	Imp data	CA	CA	ZA		horns	1	pairs		
1981	Ceratotherium simum	Imp data	CA	CA	ZA		horns	1	pairs	H	
1981	Ceratotherium simum	Imp data	FR	FR	ZA		horns	2		H	
1984	Ceratotherium simum	Imp data	ZA	ZA	KE		horns	2		P	
1984	Ceratotherium simum	Imp data	ZA	ZA	ZW		horns	2		P	
1985	Ceratotherium simum	Imp data	ZA	ZA	ZW		horns	1		P	