

.

ITALIAN ENVIRONMENTAL DATA YEARBOOK 2009





ANNEX



Yearbook Indicators Database (http://annuario.apat.it/)

Introduction

Environmental information management and dissemination are among the most important functions performed by the ISPRA.

The strategies adopted by the ISPRA ensure extensive dissemination of statistical information by making them available on-line. The *Environmental Indicators Database* plays an important role in this context. Created by APAT in 2004, it has a two-fold function: to support the production of the Environmental Data Yearbook and to supply information for consultation.

The Database – which currently contains 270 indicator fact-sheets subdivided by themes (atmosphere, biosphere, hydrosphere, waste, etc.) – is one of the widest-ranging and complete environmental data collections available in Italy.

The design of the indicator fact-sheet was arrived at by reviewing and analysing existing national and international literature on the standardisation and harmonisation of environmental reporting tools and comprises two parts:

- Indicator meta-data
- Data associated with the indicator

The Environmental Indicators Database presents the same characteristics as those indicated by SISTAN for *Statistical Information Systems*, with the result that it has been included in the National Statistical Programme for 2008-2010 and for 2011-2013.

Website access statistics are positive: in 2009 there were 27,000 distinct visitors $^{\scriptscriptstyle 1}$ and 37,000 visits.

Together with the preparation of the 2009 Yearbook, a new release of the *Environmental Indicators Database* was drawn up, in order to improve operational management while streamlining

¹ The item "distinct visitors" indicates the number of different during a given day. If a visitor accesses the site more than once during the day, then the number of visits and pages increases, but the number of "distinct visitors" stays the same



indicator processing and making the information collected easier to consult.

Prospects for development include a new consulting mode referred to as "Systematisation", which will make it possible to view timeseries from past Yearbooks, as well as the internationalisation of the Database.

Indicator database structure

The indicator database is a web-based application that allows you to manage and consult, with different access modes according to user profile, information relative to environmental indicators (metadata and associated data fact-sheets). It can be consulted at http://annuario.apat.it. or from the homepage of *www.isprambiente.it*. The client/server architecture of the application is designed to supply support to the yearbook preparation workflow and to interaction between users contributing to the edition. The application basically comprises a front end written in PHP while data are stored in a MySQL database server.

The application is designed for the management of metadata and indicator population data and permits the loading, memorisation and subsequent consultation of **indicator fact-sheets**.

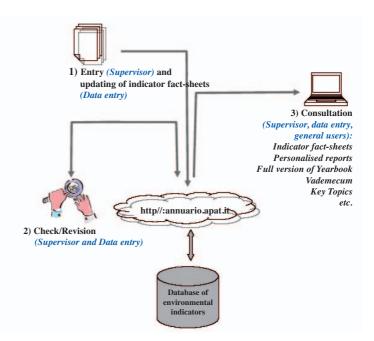
The compilation of the indicator fact-sheets for the various Thematic Areas and respective themes (Temi SINANet) makes it possible to draw up a series of documents, initially in electronic format, including the complete version of the Yearbook, Key Topics, Vademecum etc..

The application allows the contents to be managed according to the previously published "versions" of the Environmental Data Yearbook, thus permitting "historical data handling". Currently users can consult all indicator fact-sheets published from 2003 onwards. A "working version" of the database is created for every edition of the Environmental Data Yearbook, only accessible to users authorised to enter data and/or modify indicator fact-sheets. Each authorised user (*data entry*) is allocated one or more indicators by the thematic coordinator responsible. The updated fact-sheets are published after a



check/revision phase involving the yearbook user task force (supervisor) responsible for checking data together with the thematic coordinators.

During the iterative development process, fact-sheets can be "bulk loaded" and made non-modifiable if revised by the task force.

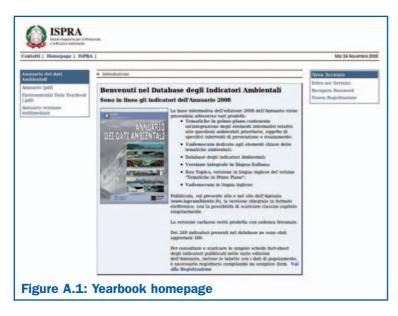


Consultation

Illustrated below is a guide exploring various functions of the "Yearbook indicator database" application.

The main page can be reached from http://annuario.apat.it and, as shown in Figure A.1, is divided into three sections: Environmental Data Yearbook (left part of page), Introduction (central part), Access Area (right part of page).





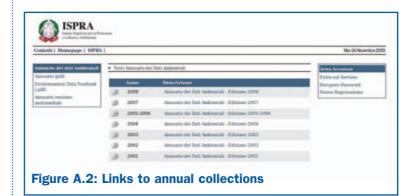
The "Environmental Data Yearbook" section gives you access to the main publications from 2001 to 2008: the menu heading "Annuario" takes you to the Italian-language publications divided by year; the menu heading "Environmental data yearbook" takes you to publications in English; lastly, the "Annuario versione multimediale" link takes you to the multimedia version.

The introduction (Figure A.1) contains a brief description of the information base and links that give you instant access to all the most recent publications. You can explore the single sections of the complete version and of the "Key Topics" in both Italian and English.

Finally, the "Area Accesso" is where users can login or register; a password recovery function is also featured.

Figures A.2 and A.3 show the pages of the annual collections in Italian. The number of products created, digitalised and available in pdf, changes from year to year in response to the aim of constantly improving products.





Contatti Homepage ISPRA					Mar 24 Novemb
Annuario del dati Ambientali	· Ter	eti Annuario dei Dati Ambientali			Area Accesso
Annuario (pdf) Environmental Data Yearbook Lpdf)		Descrizione	Coordinatore Lematico	Coordinatore statistice	Entra nel Servizio Recupero Password Nuova Registrazione
Annuario versione multimediale	38	Annuario dei Dati Ambientali 2008			Individ Registrations
	10	Vademecum 2008			
	1.00	Tematiche in primo piano 2008			

Users wishing to consult the indicator database in addition to publications must register with the system. The user-friendly interface allows users to register online by entering a username and password. The registration form shown in Figure A.4 requires users to compile required fields (username, name, surname, e-mail are all required for access and management of users) in addition to supplying optional information useful for defining profiles of users consulting the site.

Once registration is completed, users may begin navigating after login (Figure A.5), which involves entering the username selected and the password automatically generated by the system and sent to the e-mail address supplied during the registration phase.



infatti Homepage ISPRA	1		Mar 24 Novent
annario dei dati Ambientali	Schedu Utente / Nu	040	Area Accesso
Antourio (pdf) Environmental Duta Yearbook Gpdf) Annuario versione militimediale	Username	Password ******* La password è stata generata automaticamente dal sistema	Entra nel Servizio Recupero Password Naova Registrazione
	Nome	e vertà inviata all'indirizzo di posta elettronica inserito. Cognome	
	Mail	Telefono	
	Provincia Agrigento	Data Attivazione	
	Per quale attività si	ete interessati all'Annuario?	
	Denominazione dell ISPRA	a Società/Ente P P P P P P P P P P P P P	
	Salva Scheda		

Should users forget their username or password, the application includes a function that will send users their access credentials at their request.

ISPRA Inter Superior of	i Postczowe	
	Username Password Accedi	
Figure A.5: T	ne login page	

After login, users will be direct to the homepage, shown in Figure A.6, using the indicator menu on the left-hand side of the page they can consult consolidated indicators relative to the various editions of the Yearbook stored in the system.





After selecting the desired edition of the yearbook, users can view the indicators by clicking on "Index" button. The indicator index, shown in Figure A.7, is represented by a tree structure with firstlevel nodes that are thematic areas, second-level nodes that are SINAnet themes and leaves that are indicators. This page allows you to search for indicators by clicking on the elements in the index.

To carry out an advanced search, select "Indicator search" from the indicator menu on the left and fill in (Figure A.8) one or more of the fields in the indicator form, based on:

- the name of the indicator, or words or characters that are part of the name;
- words or characters that are part of the "description" field;
- words or characters that are part of the "purpose" field;



Contatti Homepage ISPRA		Mar 24 Novembre
Annuario dei dati	 Indice Indicatori 	Area Accesso
Ambientali Annonice (pdf) Environmential Data Yearbook: (pdf) Anturatro versione multitumediaie Bookunski indicatori Censu Anturatori Censu Anturatori Consulta Versioni Precedenti	Antileste e betessere Antileste e salate Bandeste e salate	Urenter submoor matteo Routo UB- Nose Conda Dersonale Lagout

Contatti Homepage ISPRA	1			Mar 24 Novembre 200
Annuario dei dati Ambientali	Ricerca Indicatori			Area Accesso
Annuario (pdf) Environmental Data Yoarbook (.pdf) Annuario versione miltimodialo	Nome Indicatore: Area Tematica: Tema SinaNet: Descrizione	Radiazioni non ionizzanti Campi elettronagnetici		Utente: salomone matteo Ruolo: UB - Base Scheda Personale Logost
Indicatori (Anno 2008) Indica Bookmark indicatori Cerra indicatori	Scopo	Avvia Ricerca	1	
Ferea indicatori		(Filtro Automatico) ne dell'indicatore e la ricerca si avvierà automati		-

The outcome of the search is a list of indicators meeting the prerequisites specified in advance by the user. Users may view the relative meta-data and data fact-sheet for each indicator (Figure A.9 and A.10). O STRA. EMPROVEMENT





Contaiti Themepage 15214.				Mar 24 Nove
Annuarin del garg Andrewick Annuarin (200) El processental Data Visationia (200) Annuari estaliani antimaniche	Nome I	ia Indicatore / Annuaria dei Dari Andonetali. Edizione 2006 Indicatore ANNI di VITA POENZIALI PERSI ATTRIBUTIRI STRADAZ STRADAZ Machine a chamoran Nacione Annuaria	AINCIDENTI	Arma Arrowson Utentie: calencies mat Raele: UB - Base Schola: Personale Exposit
Fadirectors (Assess 2000) Enderer Beckmark (addresser)	Desite	nne A Deurnnes B Deutsteanne Daty Osabhraines Indecin sociati	100 L	Report Criss Report Applerigt al Biologiach
Creve indicatori Versitetid (Annue 2004) Createlle Versied Presidenti	2	Numero di ordine visito 0 Thele Tabula 18.1. Mortalità, supertativa di vita, anni potenziali porta (2008) Ferenze (1572) Ferenza - Noto -	Disconsideration Sol176 Instance April Visconsilizzan Disconsilizzan	
opening.php (immagine JPEG, 968x601 pix: opening.php?file=TS1/3452ve_Sopalico1 pyli 2006 opening.php?file=TS1/3452ve_Sopalico1 pyli 2006		Nomen di sedhe visite 0 Table, Tabili 12.2 Pere in persentata dei PUL, per scolato estadio sei PUL per tatta is conse- anal 1997-2003 = 200 Feature 1922 100 Espenia - Neter -	Discontinue 14848 bytes Operational Descatored	
		Vanans di ordine sizen il Thele Paper I 8.1-Detellorizano per età dei PILL per dividente attradare a per tette la canasi di morte (2006) Fonde 1527 - 155 L'ogenda - Nale -	All Sectors	
		Naman di orgine vision 0 Thole Pigers 18.2. Distributione del PHL per incidenti studial vel PHL per titole le cause (2006) fonte: 1872 - 185 forgenza :- Nate -	Discontine 1990 bytes Anti-Vensiliens Described	
	h	Numers di ottime states 0 Tibile Pipini 18.3. Evolucione dei PVLL per incidente stratale respontato al PVLL per tatte le cause di mette	Universidates 40413 bytes	

The indicators can be selected using the "Add to Bookmark" function, which makes it possible to create a report (in html) with the



same structure and information found in the indicator fact-sheets of the Yearbook.

				202
nmarin dei dall Ambientali	 My Bookmark Indicatori 			Area Accesso
nnuario (pdf) nvironmental Data Yearbook	Atmosfera / Clima			Utente: salomone matteo Ruolo: UB - Base
pdf) nnuario versione	BILANCIO DI MASSA DEI GHIACCIAL (Anno Versione 2008)	2	-11	Scheda Personale
ultimediale	GIORNI CON GELO (Atato Versione 2008)		21	My Bookmark (3)
dicatori (Anno 2008) Idice	NOTEL TROPICALI (Anno Versione 2008)	8	10	Ny Bookmark (3) Svota Boomirk Civa Report
ookmark indicatori erca indicatori				
ersland (Anno 2008)				

Finished print in the month of July 2010 by Typolithography CSR - Via di Pietralata, 157 - 00158 Rome (ITALY) Phone 064182113 (r.a.) - Fax 064506671