



FINAL REPORT

Workshop Watershed Management Indicators

Buenos Aires, Argentina,
9 y 10 de Septiembre de 2010

Marzo 2011



Asociación
Argentina de
Ingeniería
Sanitaria



Instituto
Nacional del
Agua



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Nacional de
Cuyo



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INTRODUCTION

In order to ensure the successful implementation of Integrated Water Resources Management (IWRM), it must be monitored and evaluated at basin level. In this context, it is crucial to have data and indicators to monitor the actions associated with the proposed objectives and goals. It is also important to disseminate the said objectives and the indicators among users in order to implement a participatory process to water management. Effective water resources governance will depend on the sustainability of information systems for decision-making.

Basin organizations must devise their own information system by using the existing and usually scattered, incomplete, heterogeneous and poorly systematized information as well as by generating their own information through research. The problem in Argentina is that most of the pre-existing collected and processed information relates to physical spaces corresponding to jurisdictional boundaries that do not respond to specific basins.

A basin information system calls for skilled personnel capable of handling data management instruments and for the establishment of baseline and monitoring indicators.

The Workshop responded to the need to discuss these issues and agree on general criteria for improving or creating information systems for basin monitoring in Argentina.

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PURPOSE

To provide a forum to exchange information and to design and implement a strategic information system for decision making in the context of IWRM in Argentina.

OBJECTIVES

- Provide a reference framework for management indicators.
- Identify and agree on criteria to design basin management indicators for basin monitoring in the context of IWRM in Argentina.
- Assess data availability and accessibility to develop indicators.
- Define research needs to further improve the design of basin management indicators.

CONTENT

- **Introduction and conceptual framework:** Basin and basin management in the context of IWRM.
- **Methodological aspects:** management indicators. Basin management indicators. Approach, classification, development, restrictions. Governance indicators. Information systems, the need for reliable and accessible data.
- **Sustainability indicators in some specific areas of knowledge:** groundwater, drinking water and sanitation; water quality for irrigation.
- **Managers' experiences in basin monitoring through the use of indicators.**

METHODOLOGY

The Workshop was held on September 9 and 10, 2010. Participants devoted about 24 hours to comply with all scheduled activities.

Topics were discussed through interdisciplinary, intersectoral and inter-institutional analysis.

The workshop was organized along three dimensions:

- Presentation of the conceptual framework and of the methodological aspects of management indicators.
- Analysis of concrete experiences of national water resources managers.



- Group activities were based on specific instructions aimed at:
 - defining the objectives and actions to be monitored;
 - identifying indicators with special emphasis on timely frequency measurements;
 - assessing the availability of information and the existence of baselines to analyze the applicability of the selected indicators.



Group work results were discussed at plenary meetings where approaches, criteria y recommendations were presented.

FACILITATORS AND PARTICIPANTS

The Workshop was coordinated by Graciela Fasciolo (Instituto Nacional del Agua / Universidad Nacional de Cuyo) and Olga Cifuentes (Universidad Tecnológica Nacional).

Guest lecturers:

- Alejandro Drovandi (Instituto Nacional del Agua)
- Carlos Frank (Universidad Tecnológica Nacional)
- Claudia Rodriguez (Universidad Nacional de Rio Cuarto)
- Daniel Petri (Departamento Provincial de Aguas - Río Negro)
- Mario Salomón (Departamento General de Irrigación - Mendoza)
- Miguel Boyero (Comité Interjurisdiccional del Río Colorado)
- Oscar Vélez (Agua y Saneamientos Argentinos SA)
- Patricia Fernández (Departamento Provincial de Aguas - Río Negro)
- Patricia Puebla (Instituto Nacional del Agua)
- Universidad Nacional de Cuyo



The Course was addressed to researchers, academia, officials and operators from water resources management agencies in Latin America. Attendance was limited to a maximum of 30 participants to ensure personalized attention to specific needs.



Since attendance was restricted to a limited number of participants, out of a total of 54 pre-registered candidates, thirty were selected on the basis of their track records and performance. During the final registration stage, participants were asked to sign a note by means of which they committed themselves to make good use of the benefit they were granted. It should be pointed of the 30 participants that were selected, only one did not attend the Workshop.



Arg Cap-Net

NOTA N° 559 / 2010

Mendoza, 03 de Septiembre de 2010

SR. NÉSTOR BARRIONUEVO
PRESENTE

Como es de su conocimiento, Ud. ha sido seleccionado, **asignándosele una beca de matrícula, a participar del Taller de Indicadores de Gestión de Cuencas** que se desarrollará los días Jueves 9 y Viernes 10 de Septiembre de 2010.

Debido a que el proceso de selección de becarios para este taller se efectuó sobre la base de una evaluación de antecedentes y desempeños personales y que, en el mencionado proceso, atendiendo a la limitada cantidad de cupos disponibles, otros individuos han quedado marginados de participar, es que necesitamos contar con su compromiso de que efectuará un buen uso del beneficio que se le está otorgando. Básicamente queremos que nos manifieste su plena disposición para participar, en forma adecuada y sostenida, de todas las actividades previstas en el taller ya que el beneficio que Ud. posee implica que otro participante preinscripto en esta actividad se vea imposibilitado de participar.

Por otra parte, tenga presente que, aunque Ud. no lo haga, alguien estará pagando en su lugar la organización de este evento. Las instituciones que lo organizan han depositado en Ud. la confianza suficiente para garantizarle la participación en el **Taller de Indicadores de Gestión de Cuencas** sin que tenga que incurrir en costo alguno por inscripción.

Sin más por el momento, aprovecho la ocasión para enviarle un afectuoso saludo.

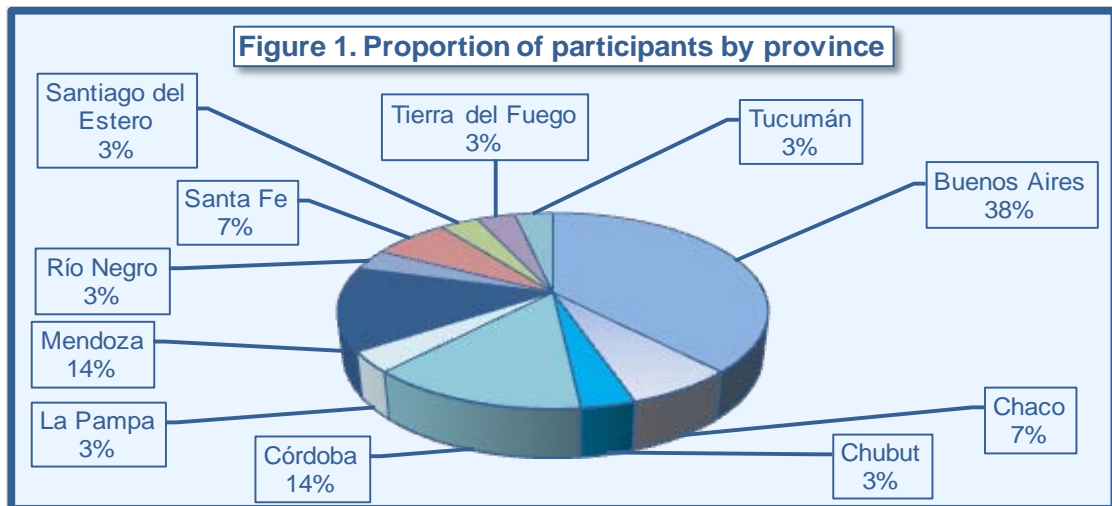
Firmo en conformidad, aceptando la beca que se me otorga y comprometiéndome a mantener una adecuada participación en el **Taller de Indicadores de Gestión de Cuencas** (Buenos Aires, 9 y 10 de Septiembre de 2010).

Firma:
Aclaración: NÉSTOR BARRIONUEVO
DNI: 22.962.485

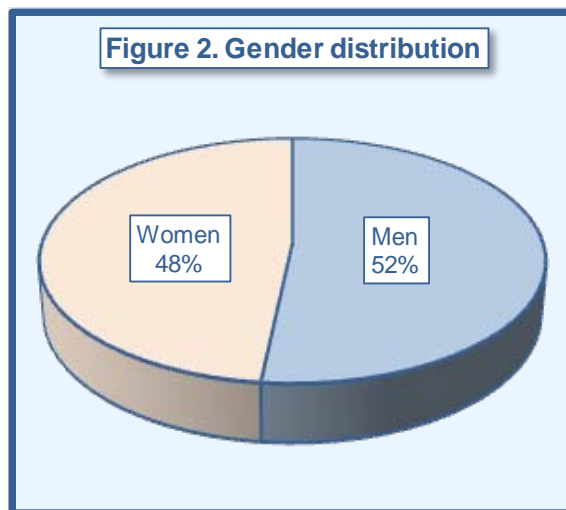
Valeria Mendoza
Secretaría Ejecutiva
Arg Cap-Net

Red Argentina de Capacitación y Fortalecimiento en la Gestión Integral de los Recursos Hídricos
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Workshop participants included agricultural engineers, civil engineers, accountants, etc. from different provinces of Argentina. Figure 1 shows the distribution of participants by Argentine's province.



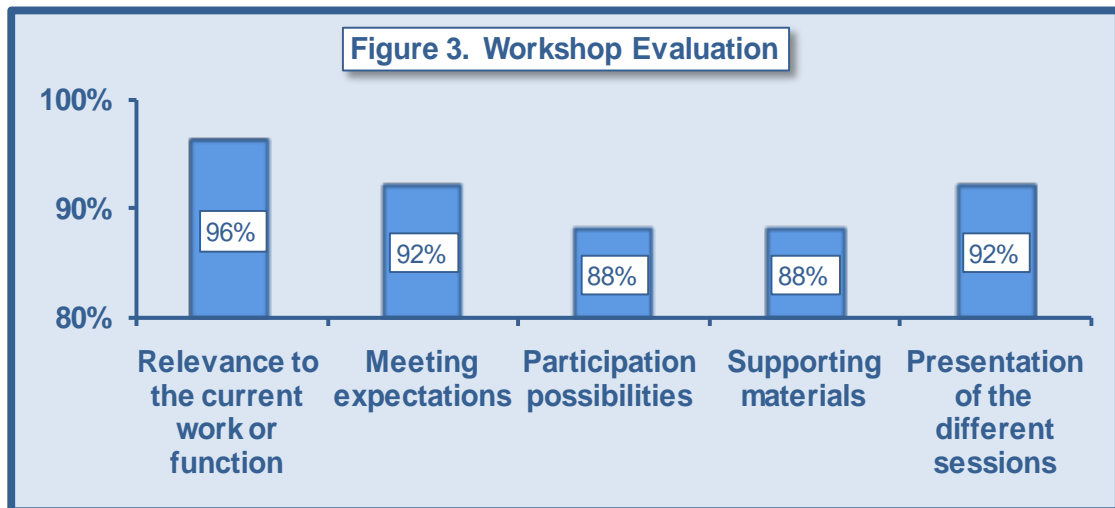
Distribution by gender is shown in Figure 2.



WORKSHOP EVALUATION

Participants were asked to complete a workshop evaluation form aimed at improving the quality and relevance of future activities. Twenty-five evaluation forms (accounting for 86% of the participants) were surveyed and processed.

A summary of the survey is shown in Figure 3. Ninety-six percent of the respondents stated that the workshop was relevant to their jobs or activities and 92% stated that the workshop reached their expectations and objectives.



Participation possibilities and study materials were rated as “highly satisfactory” (88%).

Open questions were also asked to invite comments and suggestions on course contents, facilitators, materials and organization. Some of the responses are summarized below.

WORKSHOP CONTENTS

Eight-eight percent of the respondents rated the workshop contents as very good (or excellent). Some of the answers read: “... very important contributions ...”; “... interesting work and interdisciplinary experiences ...”; “... very interesting and of international relevance...” Though only 2 participants rated course contents as good, they did not provide comments or suggestions that would help us to improve them in future courses.

FACILITATORS

Ninety-two percent of the respondents rated lecturers’ presentations as highly satisfactory. Some of them even highlighted the excellent disposition of the facilitators to keep the group active and to respond to queries. Some of the answers read: “... available at all times ...”; “... generated an interesting debate ...”; professionals are highly-trained and clear ...”

WORKSHOP ORGANIZATION

One hundred percent of the respondents highlighted the excellent disposition of Workshop organizers during the dissemination stage. They praised compliance with schedules and timetable,

Some of the answers read: "... organizers always ready to help ..."; "... everything was tidy and organized ..."; "... excellent without incurring in unnecessary expenditures ..."





With respect to the duration of the Workshop, 20% of the respondents suggested extending it by an extra day for additional group work and plenary meetings.

ANNEX I. ORGANIZERS' AND FACILITATORS' CONTACT INFORMATION

PICTURE - FIRST AND LAST NAME	UNIV. DEGREE	ORGANIZATION - EMAIL - PROVINCE
 BOLSINGER, Carlos (ORGANIZER)	Architect	AIDIS Argentina cbolsinger@aidisar.org BUENOS AIRES
 BOYERO, Miguel Ángel (LECTURER)	Engineer	Comité Interjurisdiccional del Río Colorado presidencia@coirco.gov.ar LA PAMPA
 CIFUENTES, Olga (ORGANIZER - LECTURER)	Civil Engineer Master's in Environmental Management of Urban Development	Universidad Tecnológica Nacional (UTN) ocifuentes@speedy.com.ar BAHIA BLANCA – BUENOS AIRES
 DROVANDI, Alejandro (LECTURER)	Agricultural Engineer Master's in Environmental Science and Technology	Instituto Nacional del Agua - Centro Regional Andino (INA-CRA) Universidad Nacional de Cuyo (UNCuyo) - Facultad de Ciencias Agrarias aledrovandi@ciudad.com.ar MENDOZA
 FASCILO, Graciela Elena (ORGANIZER - LECTURER)	Agricultural Engineer	Instituto Nacional del Agua – Centro de Economía, Legislación y Administración del Agua (INA-CELA) Universidad Nacional de Cuyo (UNCuyo) – Instituto de Ciencias Ambientales (ICA) gracielifasciolo@yahoo.com.ar MENDOZA
 FERNÁNDEZ Patricia (LECTURER)	Chemical Engineer Specialist in Environmental Engineering	Departamento Provincial de Aguas (DPA) pfernandez@dpa.rionegro.gov.ar RIO NEGRO
 FRANK, Carlos Francisco (LECTURER)	Engineer Master's in Information Management	Universidad Tecnológica Nacional (UTN) CONICET carlosfrank@criba.edu.ar BAHÍA BLANCA - BUENOS AIRES





PICTURE - FIRST AND LAST NAME	UNIV. DEGREE	ORGANIZATION - EMAIL - PROVINCE
 GALLOPIN, Gilberto (LECTURER)	PhD.in Ecology	Consultor Independiente gilberto.gallopin@fibertel.com.ar BUENOS AIRES
 MASSONE, Héctor (LECTURER)	"Lic" in Geology Dr. In Natural Sciences	Universidad Nacional de Mar del Plata hmassone@mdp.edu.ar MAR DEL PLATA -BUENOS AIRES
 MENDOZA, María Valeria (ORGANIZER)	"Lic." in Economics	Instituto Nacional del Agua – Centro de Economía, Legislación y Administración del Agua (INA-CELA) Universidad Nacional de Cuyo (UNCuyo) – Facultad de Ciencias Económicas secretaria@arqcapnet.org.ar MENDOZA
PETRI, Daniel A. (LECTURER)	Water Resources Engineer	Departamento Provincial de Aguas (DPA) dpetri@dpa.rionegro.gov.ar RÍO NEGRO
 PUEBLA, Patricia Liliana (ORGANIZER - LECTURER)	"Lic." in Administration	Instituto Nacional del Agua – Centro de Economía, Legislación y Administración del Agua (INA-CELA) Universidad Nacional de Cuyo (UNCuyo) – Facultad de Ciencias Económicas patpuebla@hotmail.com MENDOZA
 RODRIGUEZ, Claudia (LECTURER)	Veterinarian Dr. in Biological Sciences	UNRC – Facultad de Agronomía y Veterinaria crodriguez@ayv.unrc.edu.ar RÍO CUARTO - CÓRDOBA
 SALOMÓN, Mario (LECTURER)	"Lic." in Geography Master's in Basin Planning and Management	Asociación 1º Zona del Río Mendoza (ASIC) salomonmario@yahoo.com.ar MENDOZA
 VÉLEZ, Oscar (LECTURER)	Engineer	AySA oscar_r_velez@aysa.com.ar BUENOS AIRES

ANNEX II. PARTICIPANTS' PROFILE

PICTURE - FIRST AND LAST NAME	UNIV. DEGREE	ORGANIZATION - EMAIL - PROVINCE
 ARANCIBIA, Carmen (PARTICIPANT)	"Lic." in Chemistry	Secretaría de Ambiente y Desarrollo Sustentable de la Nación carancibia@ambiente.gob.ar BUENOS AIRES
 BARREDA, Miguel Alejandro (PARTICIPANT)	Agricultural Engineer Master's in Water Engineering	Instituto Nacional de Tecnología Agropecuaria (INTA) mumybarreda@arnet.com.ar CORDOBA
BARRIONUEVO, Néstor (PARTICIPANT)	"Lic." in Geographic Information Systems (under way)	Instituto Nacional de Tecnología Agropecuaria (INTA) nbarrionuevo@cnia.inta.gov.ar BUENOS AIRES
BASÁN NICKISH, Mario Héctor (PARTICIPANT)	Water Resources Engineer Master's in Irrigation Engineering	Instituto Nacional de Tecnología Agropecuaria (INTA) mbasan@correo.inta.gov.ar SANTIAGO DEL ESTERO
 BUCCHERI, Mauricio (PARTICIPANT)	"Lic." in Economics Master's in IWRM	Universidad Nacional de Cuyo (UNCuyo) - Institutos Multidisciplinarios mauriciobucheri@yahoo.com.ar MENDOZA
 CIPPONERI, Marcos (PARTICIPANT)	Hydraulic Engineer Civil Engineer	Universidad Nacional de la Plata ingmarcoscipponeri@yahoo.com.ar LA PLATA – BUENOS AIRES
DROVANDI, Alejandro (LECTURER - PARTICIPANT)	Agricultural Engineer Master's in Environmental Science and Technology	Instituto Nacional del Agua - Centro Regional Andino (INA-CRA) Universidad Nacional de Cuyo (UNCuyo) - Facultad de Ciencias Agrarias aledrovandi@ciudad.com.ar MENDOZA

PICTURE - FIRST AND LAST NAME	UNIV. DEGREE	ORGANIZATION - EMAIL - PROVINCE
 ESPINOSA ROJAS, Hebe Amparo (PARTICIPANT)	Civil Engineer	Dirección de Recursos Hídricos hebeamparo@gmail.com TUCUMÁN
FERNÁNDEZ Patricia (LECTURERA - PARTICIPANT)	Chemical Engineer Specialist in Environmental Engineering	Departamento Provincial de Aguas (DPA) pfernandez@dpa.rionegro.gov.ar RIO NEGRO
 FERNANDEZ, Rocío Luz (PARTICIPANT)	Civil Engineer PhD. In Hydraulics and Environmental Engineering	Universidad Nacional de Córdoba (UNC) rocioluz@yahoo.com CÓRDOBA
FIORITI, María Josefa (PARTICIPANT)	Geographer	Subsecretaría de Recursos Hídricos de la Nación mfiori@minplan.gov.ar BUENOS AIRES
 FRANK, Carlos Francisco (LECTURER - PARTICIPANT)	Engineer Master's in Information Management	Universidad Tecnológica Nacional (UTN) CONICET carlosfrank@criba.edu.ar BAHÍA BLANCA - BUENOS AIRES
 GÓMEZ, Miguel Ángel (PARTICIPANT)	Civil Engineer Dr. In Hydronomy	Secretaría de Ambiente y Desarrollo Sustentable de la Nación mgomez@ambiente.gob.ar BUENOS AIRES
 LÖSCH, Liliana Silvana (PARTICIPANT)	Biochemist Master's in Tropical Medical Sciences	Administración Provincial del Agua silvinalosch@yahoo.com.ar CHACO
LOZECO, Cristóbal Vicente (PARTICIPANT)	Water Resources Engineer Master's in IWRM	Universidad Nacional del Litoral (UNL) – Facultad de Ingeniería y Ciencias Hídricas plozeco@hotmail.com SANTA FE

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 MASSONE, Héctor (LECTURER - PARTICIPANT)	"Lic." in Geology Dr. In Natural Sciences	Universidad Nacional de Mar del Plata hmassone@mdp.edu.ar MAR DEL PLATA - BUENOS AIRES
 MATALÓN, María Patricia (PARTICIPANT)	Lawyer	Legislatura de la Provincia de La Pampa mpmatalon@yahoo.com.ar LA PAMPA
MOREYRA, Alejandra (PARTICIPANT)	Forest Engineer Dr. in Environmental Sciences	Instituto Nacional Tecnología Agropecuaria (INTA) amoreyra@correo.inta.gov.ar LA PLATA - BUENOS AIRES
OCAMPO, Alejandro Gregorio Felipe (PARTICIPANT)	Chemical Engineer Specialist in Environmental Engineering	Administración Provincial Del Agua agf_ocampo@yahoo.es CHACO
 PEREZ, Marcela Alejandra (PARTICIPANT)	Water Resources Engineer Master's in IWRM	Universidad Nacional del Litoral (UNL) - Facultad de Ingeniería y Ciencias Hídricas perezmarcelaa@gmail.com SANTA FE
 RODRIGUEZ, Victoria (PARTICIPANT)	"Lic." in Chemical Sciences Master's in Environmental Sciences	Secretaría de Ambiente y Desarrollo Sustentable vicrh@fibertel.com.ar BUENOS AIRES
 RODRIGUEZ, Claudia (LECTURERA - PARTICIPANT)	Veterinarian Dr. in Biological Sciences	UNRC – Facultad de Agronomía y Veterinaria crodriguez@ayv.unrc.edu.ar RÍO CUARTO - CÓRDOBA
 RUIZ, Marcía Andrea (PARTICIPANT)	Biochemist-Pharmacist Master's in Water Engineering	Instituto Nacional del Agua – Centro de la Región Semiárida (INA-CIRSA) marciarui74@yahoo.com CÓRDOBA

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 SALOMÓN, Mario (LECTURER - PARTICIPANT)	"Lic." in Geography Master's in Basin Planning and Management	Asociación 1º Zona del Río Mendoza (ASIC) salomonmario@yahoo.com.ar MENDOZA
 SARTOR, Aloma Silvia (PARTICIPANT)	Engineer Master's in Environmental Engineering	Universidad Tecnológica Nacional (UTN) aloma_sartor@hotmail.com BAHÍA BLANCA- BUENOS AIRES
SCHEFER, Juan Carlos (PARTICIPANT)	Engineer	Universidad Nacional del Sur (UNS) juancarlos.schefer@uns.edu.ar BAHÍA BLANCA - BUENOS AIRES
 SERRA, Juan José (PARTICIPANT)	Water Resources Engineer Master's in Water Resources in the Plains Dr. in Engineering	Universidad Nacional de la Patagonia San Juan Bosco (UNSP) juanjoseserra@gmail.com CHUBUT
 VÁZQUEZ, Mabel (PARTICIPANT)	Renewable Natural Resources Engineer (under way)	Dirección General de Recursos Hídricos mabel.18@hotmail.com TIERRA DEL FUEGO
VICH, Alberto Ismael (PARTICIPANT)	Water Resources Engineer	CRICYT aijvich@lab.cricyt.edu.ar MENDOZA

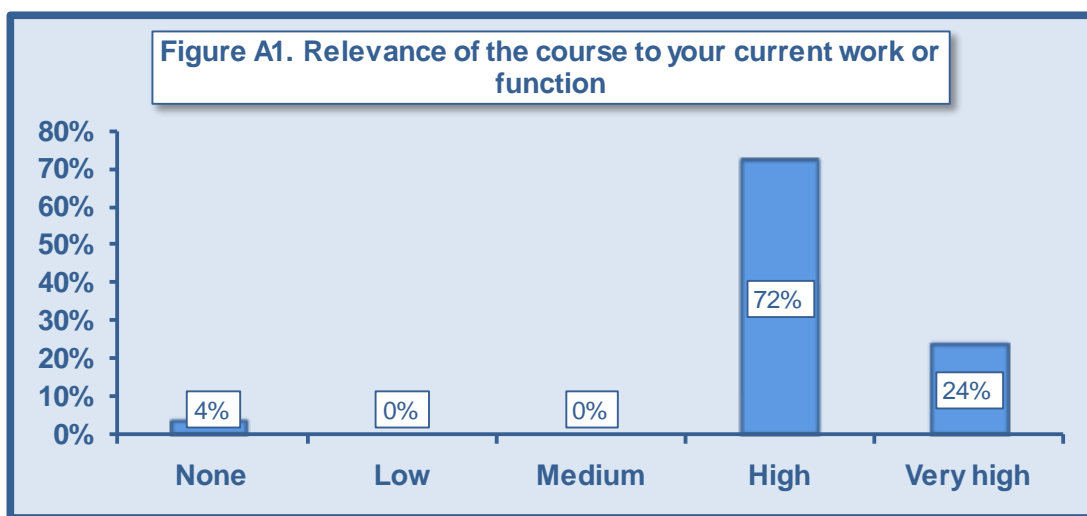
ANNEX III. TRAINING SCHEDULE

THURSDAY, SEPTEMBER 9	FRIDAY, SEPTEMBER 10
<p>08:30 to 09:00 Registration</p>	
<p>09:00 to 09:30 Opening session <i>Jorge Pilar (Arg Cap-Net)</i> <i>Javier Pascuchi (Representative of the Subsecretaría de Recursos Hídricos)</i></p>	<p>09:00 to 10:00 SESSION 5 Experiences of basin monitoring managers in the use of indicators Case 3. AySA (<i>Oscar Vélez</i>) Case 4. Basin inspection. Departamento General de Irrigación - DGI Mza (<i>Mario Salomón</i>)</p>
<p>09:30 to 10:00 Inaugural Lecture Evaluation of Sustainable Development (<i>Gilberto Gallopín</i>)</p>	
<p>10:00 to 10:30 SESSION 1 Introduction and conceptual framework Basin and basin management in the context of IWRM (<i>Daniel Petri</i>)</p>	<p>10:00 to 10:30 SESSION 6 Methodological Aspects Basin management indicators. Approach, classification, development, restrictions (<i>Graciela Fasciolo</i>)</p>
<p>10:30 to 11:00 Workshop methodology and dynamics (<i>Graciela Fasciolo</i>)</p>	<p>10:30 to 11:00 SESSION 7 Methodological Aspects Information systems, the need for reliable and accessible data (<i>Carlos Frank</i>)</p>
<p>11:00 to 11:30 Coffee break</p>	<p>11:00 to 11:30 Coffee break</p>
<p>11:30 a 12:00 hs. SESSION 2 Methodological Aspects Management indicators (<i>Patricia Puebla</i>)</p>	<p>11:30 a 15:00 hs. GROUP WORK (lunch will be served)</p>
<p>12:00 to 13:00 SESSION 3 Experiences of basin monitoring managers in the use of indicators Case 1. COIRCO (<i>Miguel Ángel Boyero</i>) Case 2. DPA Río Negro (<i>Patricia Fernández</i>)</p>	
<p>15:00 to 16:30 SESSION 4 Management indicators in some specific areas of knowledge Academic approach Case 1. Groundwater (<i>Héctor Massone</i>) Case 2. Drinking water and sanitation (<i>Olga Cifuentes</i>) Case 3. Water for irrigation (<i>Alejandro Drovandi</i>) Case 4. Lakes and reservoirs (<i>Claudia Rodriguez</i>)</p>	<p>15:00 to 16:00 PLENARY SESSION AND CONCLUSIONS</p>
<p>16:30 to 18:30 GROUP WORK</p>	
<p>18:30 to 19:00 PLENARY SESSION AND PARTIAL CONCLUSIONS</p>	

ANNEX IV. TRAINING EVALUATION REPORT

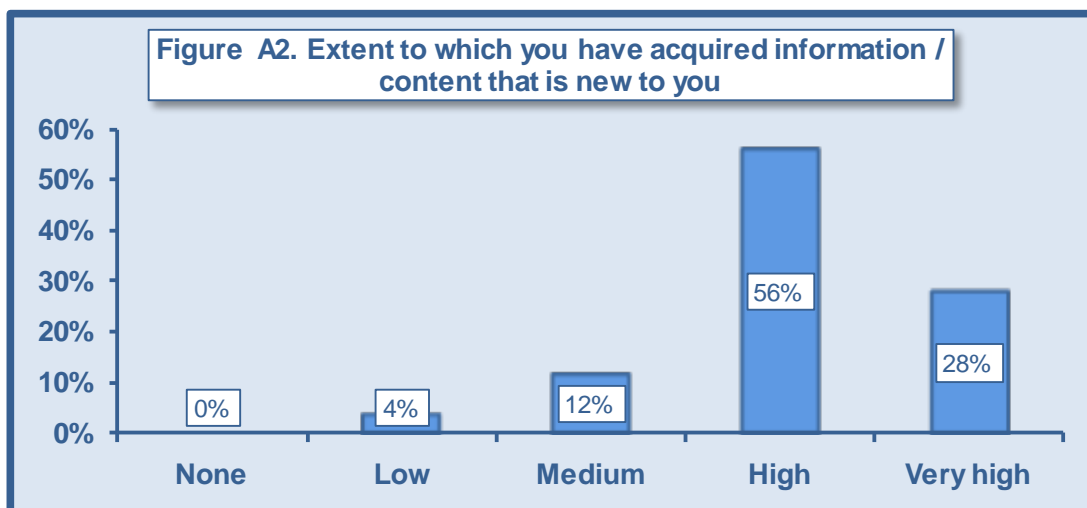
RELEVANCE OF THE WORKSHOP TO YOUR CURRENT WORK OR FUNCTION

None of the respondents rated it as low or medium, 96% percent of the participants rated it as high or very high. Only 1 participant (4%) stated that it had no relevance.



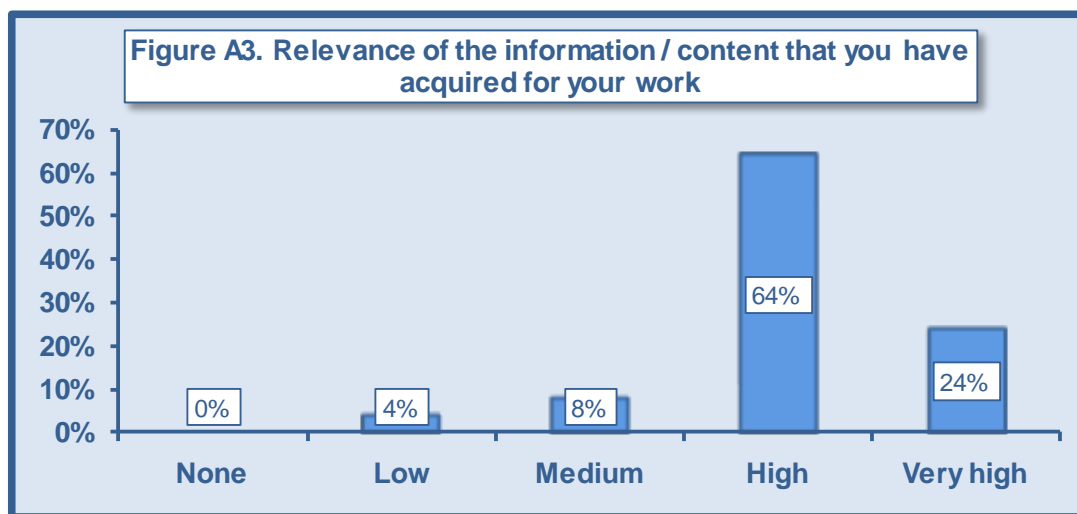
EXTENT TO WHICH YOU HAVE ACQUIRED INFORMATION

Eighty-four percent of the respondents rated it as high or very high, 12% rated it as medium and 4% rated it was low. No one stated that it had no relevance.



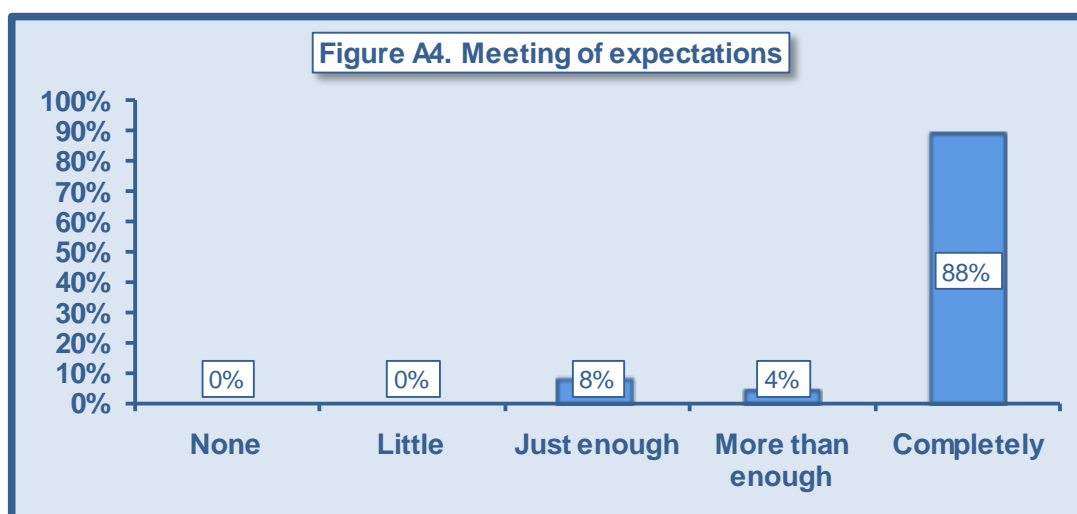
RELEVANCE OF THE INFORMATION / CONTENT THAT YOU HAVE ACQUIRED FOR YOUR WORK

Eighty-eight percent of the respondents rated it as high or very high, 8% rated it as medium and 4% rated it as low.



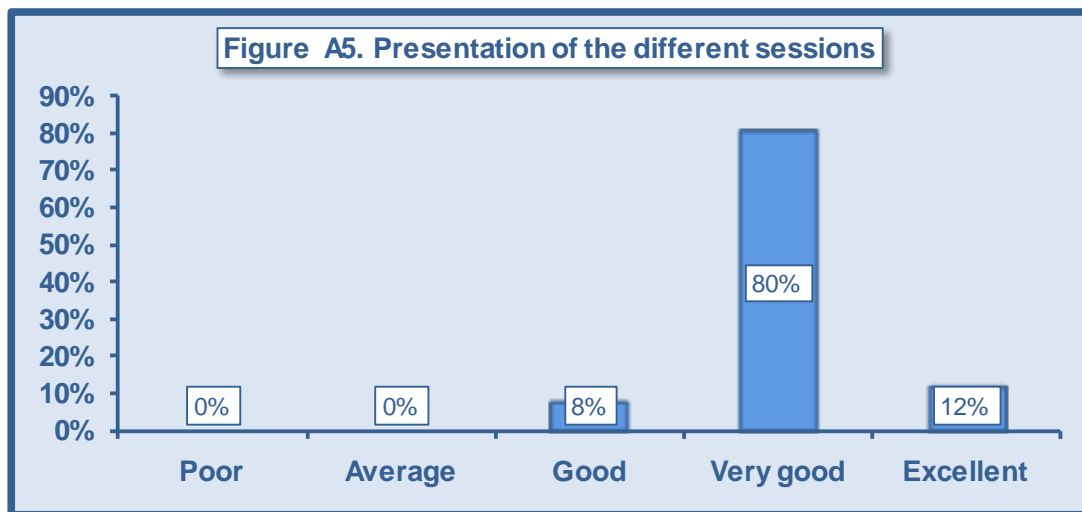
DID THE WORKSHOP REACH YOUR EXPECTATIONS AND OBJECTIVES?

Ninety-two percent of the respondents stated that they were completely satisfied or more than enough with the Workshop; 8% rated it as just enough and no one rated it as little. No one stated that it did not reach their expectations and objectives.



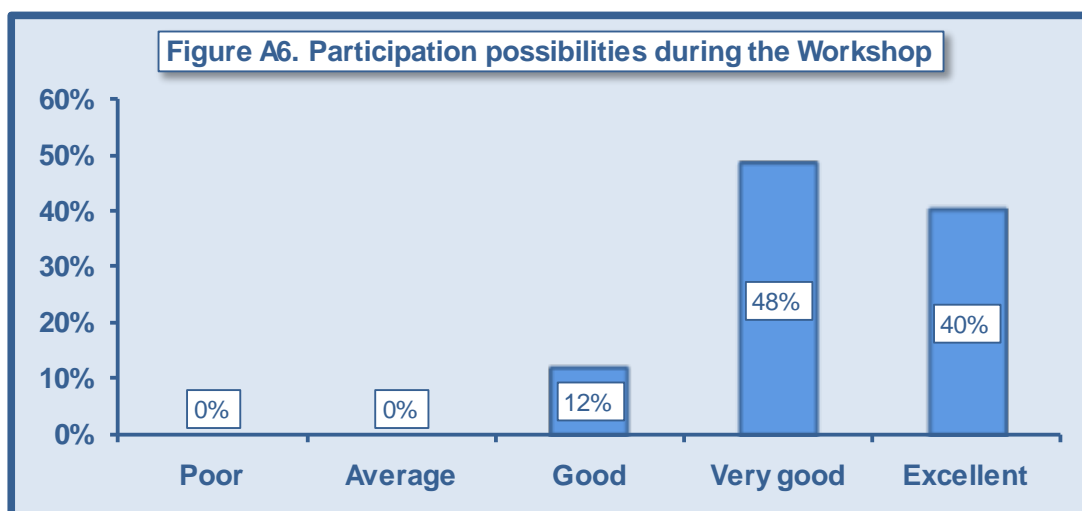
PRESENTATION OF THE DIFFERENT SESSIONS

Ninety-two percent of the respondents rated it as excellent or very good, 8% rated it as good and no one rated it as average or poor.



PARTICIPATION POSSIBILITIES DURING THE WORKSHOP

Eighty-eight percent of the respondents rated it as excellent or very good, 12% rated it as good and no one rated it as average or poor.



SUPPORTING MATERIALS

Eighty-eight percent of the respondents rated it as excellent or very good, 12% rated it as good and no one rated it as average or poor.

