



8th International Food Data Conference

“Quality Food Composition Data- Key for Health and Trade”

**Bangkok, Thailand
October, 2009**



***Project for developing Food Composition Data Base
for Argentine, Chile and Paraguay to strengthen the
international trade and consumers protection.
FAO TCP/RLA 310***


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8th International Food Data Conference





October 1-3, 2009

Bangkok, Thailand



MAIN OBJECTIVE

To update the national food composition tables and databases of Argentina, Chile and Paraguay,
To include this information in the Latin American food composition database



NATIONAL COUNTERPARTS

Argentina

- Dirección Nacional de Alimentos – SAGPyA
- Instituto Superior de Investigaciones Biológicas (INSIBIO), Universidad Nacional de Tucumán, CONICET

Chile

- Unidad de Alimentos y Nutrición, Ministerio de Salud
- Facultad de Ciencias Químicas y Farmacéuticas e Instituto de Nutrición y Tecnología de los Alimentos (INTA) de la Universidad de Chile

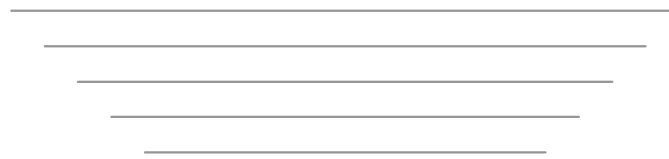
Paraguay

- Instituto Nacional de Alimentación y Nutrición (INAN) del Ministerio de Salud Pública y Bienestar Social.



SPECIFICS OBJECTIVES

- ✓ Training professionals from the 3 countries in food composition
- ✓ To elaborate a plan for the strengthening LATINFOODS National Chapters of Argentine, Chile and Paraguay
- ✓ To design national foods sampling plans
- ✓ To compile food composition data
- ✓ To perform a proficiency laboratory test
- ✓ To generate composition data of 5 priority food from each country
- ✓ To design and elaborate the national food composition databases



ACTIVITIES CARRIED OUT

- ① Three Subregional Workshops were developed:

Food Sampling Plans to generate food composition data

Tucumán, Argentine, February 2008

International Consultant : Dr. Joanne Holden

Results

- 22 professionals of the 3 countries were trained
- A *Sampling Manual* was developed



ACTIVITIES CARRIED OUT

Data Compilation for food composition tables

Santiago, Chile, April 2008

International Consultant : Dra. Elizabete Wenzel

Results

- 22 trained professionals
- Manual and Forms for Data Food Compilation were developed and used in this project



ACTIVITIES CARRIED OUT

Organization of food composition data base

Asunción, Paraguay, June 2008

International Consultant : Dr. Saturnino de Pablo

Results

- 16 trained professionals



ACTIVITIES CARRIED OUT

- ② Three National meetings for the discussion and approval the “*Action Plan for strengthening the institutionalization and management of the food composition*” were performed

✓ **Participants**

Government representatives, researches from universities, food industry representatives

✓ **Results**

Action plan for strengthening each National Chapter: Argentine, Chile and Paraguay, and working plan for period 2009/2011



ACTIVITIES CARRIED OUT

- ③ Three National Workshops:
“*Basic Principles to ensure the generation and compilation of good quality data in food composition*”

✓ **Organized by :** National Consultants

✓ **Date and Number of participants**

- Argentina: October 13-24 , 2008; 36
- Chile: October 29- November 7 , 2008 ; 48
- Paraguay: December 9-13, 2008 ; 23



ACTIVITIES CARRIED OUT

4 Analytical Proficiency Laboratory Test

- It was performed under the direction of Dr. Leonardo Merino, Swedish Food Agency
August –September 2008
- Three reference standard food matrixes were used in the assay
 - ✓ Meat base food for proximate analysis
 - ✓ A cereal for dietary fiber, sodium and iron
 - ✓ A juice for Vitamin C and betacarotene



ACTIVITIES CARRIED OUT

4 Laboratories participants

Analysis	Number of Laboratories		
	Chile	Argentina	Paraguay
Proximate	5	7	5
Dietary Fiber, sodium and iron	3	6	3
Vitamin C and betacarotene	2	6	3

- The results were discussed in each country



5 Compilation of food composition data



Code	Food Groups	N° compiled foods		
		Chile	Argentina	Paraguay
A	Cereals and derivates	6	14	77
B	Vegetables and derivates	16	38	17
D	Fats and Oils	15	10	13
E	Fish and seafood	10	37	
F	Meats and derivates	47	28	10
G	Milk and derivated	12	20	38
C	Fruits and derivates		1	32
H	Drinks			30

5 Compilation of food composition data



Code	Food Groups	N° compiled foods		
		Chile	Argentina	Paraguay
K	Sugar products	6	12	
N	Foods for special diets	16		
P	Native foods	15	21	
R	Processed foods	10	31	18
S	Prepared foods	47	31	
T	Legumes, seeds and derivates	12	9	15
J	Eggs and derivates		6	
	Total	251	258	250

ACTIVITIES CARRIED OUT

- 6** To develop sampling plans for 30 priority foods for each country

They were developed according to the statistical procedures developed in the Sampling Plan Workshop.



ACTIVITIES CARRIED OUT

- 7** Application of sampling plans and analysis of 5 selected priority foods by country

Argentina

FOOD	CLASSIFICATION	ANALYSIS	Samples
Aceite de girasol Sunflower oil	Homog.	Fatty acid profile	21
Pan Francés Bread	Heterog.	Proximate, Na, Fe, Folic acid	26
Carne Bovina (4 cortes) Beaf Meat	Homog.	Proximate, Fatty acid profile, Colesterol, Vit. A, Fe, P, Zn, Na	96 (24 x 4)
Naranjas var. Valencia Oranges	Heterog.	Proximate, Vit. C, Available Carbohydrates	10
Leche entera y descremada Whole and skim milk	Homog.	Proximate, Lactose, Fatty acid profile Na, K, Ca, P, Mg, Zn, Fe, Cu, Vit. A, β -carotene	9-11

ACTIVITIES CARRIED OUT



7 Application of sampling plans and analysis of 5 priority foods

Chile

FOOD	ANALYSIS	Samples
Margarina Marguerine	Proximate, Na, Fatty acid profile	13
Pan Marraqueta Bread	Proximate, Na, Fe, B1, B2	18
Pollo (sin piel) Chicken	Proximate, Fatty acid profile, Na, Fe, B1, B2	15
Papas Potato	Proximate, Vit. C	12
Empanadas	Proximate, Fatty acid profile, Na, Fe, B1, B2	18

ACTIVITIES CARRIED OUT



7 Application of sampling plans and analysis of 5 priority foods

Paraguay

FOOD	CLASSIFICATION	ANALYSIS	Samples
Carne Bovina (3 cortes) Beef Meat	Homog.	Proximate, Vit. C, A, B1, B2, Na, Fe	18
Aceite de soja, girasol y mezcla Soy, Sunflower and mix oil	Homog.	Proximate, Vit. C, A, B1, B2, Na, Fe	12
Mandioca Manioc	Heterog.	Proximate, Vit. C, A, B1, B2, Na, Fe	18
Chipa	Heterog.	Proximate, Vit. C, A, B1, B2, Na, Fe	12
Sopa Paraguaya Soup Paraguayan	Heterog.	Proximate, Vit. C, A, B1, B2, Na, Fe	21

LAST ACTIVITY

Subregional Workshop for evaluation and monitoring of project activities

✓ Date

- October 21-23th, 2009 – Jujuy, Argentina

✓ Objectives

- To analyze the obtained results
- To establish plan for monitoring future activities
- To prepare final report
- Provide guidelines for the National Workshops for evaluation and monitoring of project activities – November 2009



This project constitutes an important step for the food composition activities in Argentina, Chile and Paraguay.

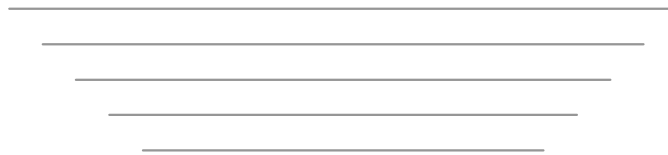
A permanent Government program has been proposed which would permit to establish and to maintain actualized the national Data Base contributing to strengthen the international trade and consumers protection.





The achievement of this project is an effort of the LATINFOODS National Chapters of the participating countries.

Their results allowed advance in the accomplishment of the objectives of the LATINFOODS three-year work plan and strengthen it as a regional technical cooperation network.



Our gratefulness to FAO and its Representatives by the support given to this project.

Our recognition to the Government Institutions of Argentina, Chile and Paraguay for their high compromise with this Project

