

SOUTH PATAGONIA ARGENTINE HONEY: THE FIRST CONTROLLER DESIGNATION OF ORIGIN (CDO/DOC) HONEY IN LATIN AMERICA



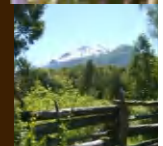
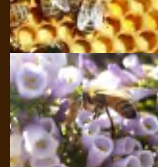
Vet. Claudio R. Marconi
ApiHuella - Apiculture Consultant Group



– **Miel Patagonia Sur Argentina**
Marconi; Fernández Ghía.; Lorenzo; Martz; Bonzón

INTRODUCTION

- "South Patagonia Argentine Honey" Program
- First Controller Designation of Origin (CDO/DOC)



South Patagonia Argentine Honey – Miel Patagonia Sur Argentina

Marconi; Fernández Ghia.; Lorenzo; Martz; Bonzón



INTRODUCTION



South Patagonia Argentine Honey – Miel Patagonia Sur Argentina

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AIMS

- Develop a Denomination of Origin
- Honey from Chubut (Andean and Extra Andean Region)
- Quality Assurance System that differentiates and protect the regional bee products



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AIMS

- Controlled by the Denomination of Origin Regulatory Board and their beekeeper adherent associations.

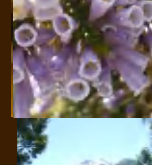


Asociación Civil
sin fines de lucro



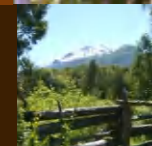
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METHODS

- Initial diagnosis
- Palynological research and characterization of honey
- Production and processing Standards
- Annual Program Audits
- Denomination of Origin Regulatory Board
- Technical Assistance and Training

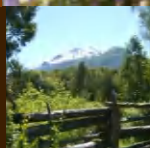


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METHODS INITIAL DIAGNOSIS (APRIL 2005)

- Workshop with Technicians and Provincial Referents.
- Differential Honey Icons research through Brainstorm.
- Available resources in every region of South Patagonia
- Data research.
- First conclusions.
- Institution and beekeeper´s compromise.
- Main achievement and Schedule redaction.



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Marconi; Fernández Ghía.; Lorenzo; Martz; Bonzón

METHODS PALYNOLOGICAL RESEARCH

- Dra. ALICIA E. FORCONE
- Biology PhD,
- Palinologic Labo
- Naturales, Univer
- Responsible for
- Control Laborat
- Producción de Ch

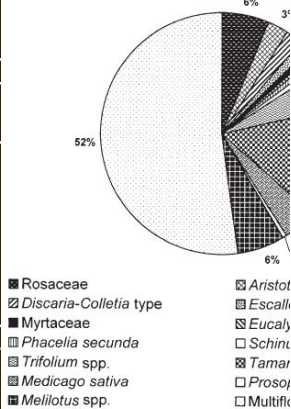


Figure 2. Honey from Chubut grouped 1 Multifloral honey - 52%; Monofloral honey (15%), Rosaceae (6%), Trifolium spp. (6%), Medicago sativa (4%), Aristotelia chilensis (3 (2%), Escallonia spp. (1%), Eucalyptus sp. (1' Phacelia secunda (1%), Prosopidastrum glob patagonica (1%).

Grana 44: 1
Palyno
Patagc
ALICIA FC

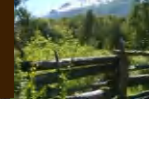
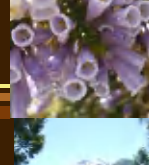
FLORA MELÍFERA DE LAS REGIONES PAMPEANA AUSTRAL Y PATAGONIA EXTRA-ANDINA



ALICIA FORCONE - ANA ANDRADA
(ex-aequo)

FACULTAD DE CIENCIAS NATURALES (SEDE TRELEW)
UNIVERSIDAD NACIONAL DE LA PATAGONIA SAN JUAN BOSCO
DEPARTAMENTO DE AGRONOMIA. UNIVERSIDAD NACIONAL DEL SUR

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and Francis
GRANA (part
The Charles



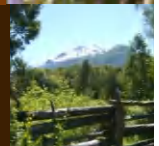
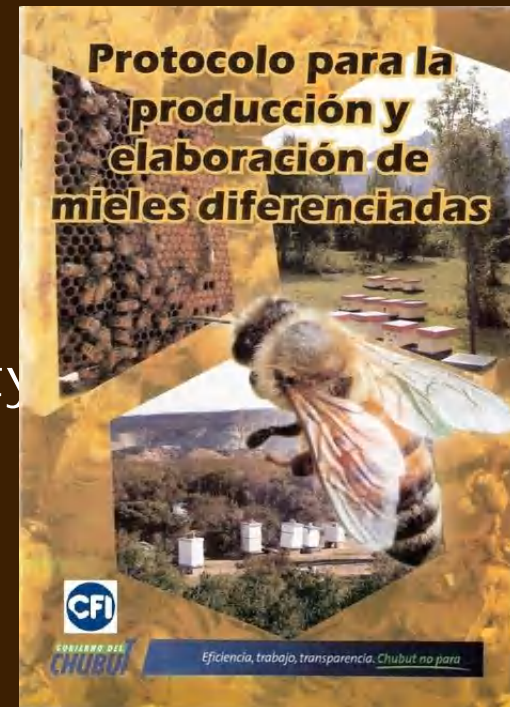
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METHODS PRODUCTION AND PROCESSING STANDARDS

- Developed with the main actors
- Under consensus
- Voluntary participation (opened)
- Adjusted to the tradition and reality
- Applying technology
- Process improvement

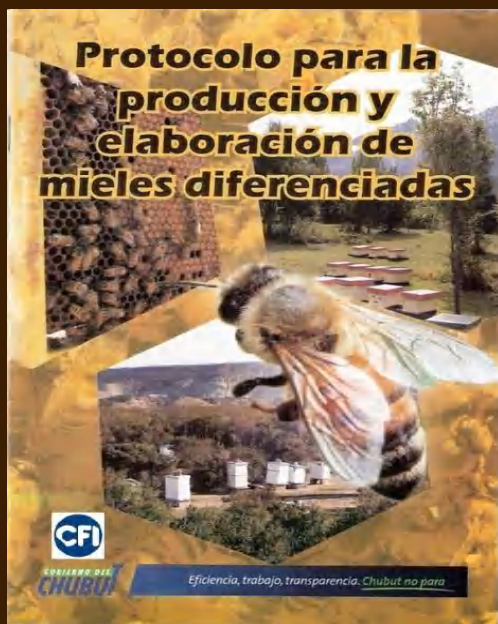


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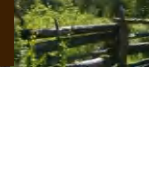
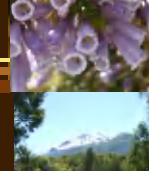
METHODS PRODUCTION AND PROCESSING STANDARDS

- Standard development stages (end of 2005)



Final
agreement
standard

Over
agreement



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METHODS ANNUAL PROGRAM AUDITS



Protocolo Piloto de Producción y Elaboración de Miel

Página 1 de 7

Vigencia: 18/11/2006

LC-001

FECHA DE VISITA:

N ° CODIGO VISITA:

Nº DE VISITA:

TIPO DE VISITA: 1º VISITA DIAGNOSTICO: ☐

VISITA SEGUIMIENTO: ☐

VISITA SORPRESA: ☐

OBJETIVO DE LA VISITA:

CONTROL GENERAL: ☐

CONTROL MANEJO: ☐

CONTROL COSECHA: ☐

CONTROL DE REGISTROS: ☐

CONTROL LEVANTAMIENTO NO CONFORMIDADES: ☐

NOTA: a lo largo de las visitas anuales deberán haberse verificado todos los puntos de la lista de chequeo completa.

1. Datos a relevar en todas las visitas:

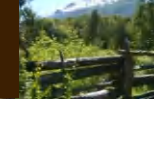
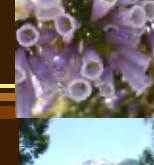
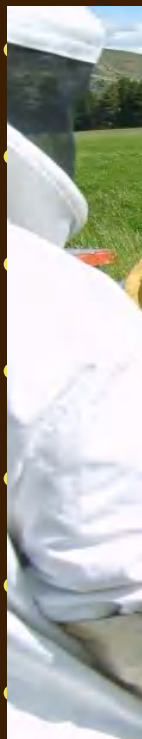
APIARIO	DATOS COLMENAS				OBSERVACIONES
	INFORMADOS	REGISTRADOS	ENCONTRADOS	UBICACIÓN / GPS	

REFERENCIAS:

N/A: NO APLICABLE EL PUNTO PROTOCOLO

N/C: NO CONFORME (NO CUMPLE PUNTO PROTOCOLO)

N/V: NO VERIFICADO DURANTE CONTROL REALIZADO



tion)
tions)

2006

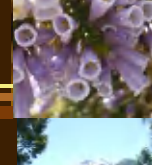


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METHODS DENOMINATION OF ORIGIN REGULATORY BOARD

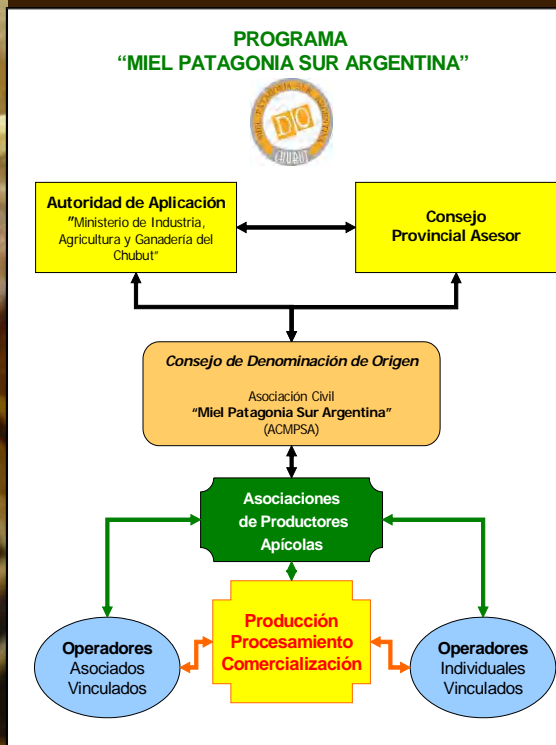
- Civil Association created in 2007
- “Miel Patagonia Sur Argentina” (MPSA)
- Gather together all the beekeepers of the Program
- Associated and independent beekeepers
- Always voluntary (opened)
- Recognized as a Regulatory Board of MPSA by the Competent Authority



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METHODS DENOMINATION OF ORIGIN REGULATORY BOARD

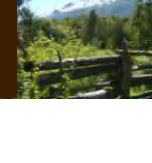
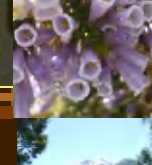


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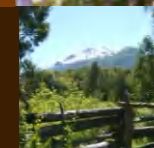
METHODS TECHNICAL ASSISTANCE AND TRAINING

- To operate the Program was implemented:
 - Training and Technical Assistance to all operators;
 - Rules of the Denomination of Origin Regulatory Board;
 - Standard agreement requirements to be controlled;
 - Annual Program Audits;
 - Improvements in community buildings of Honey Extraction;
 - Good Practices in the production and process honey (GAP´s and GMP´s).

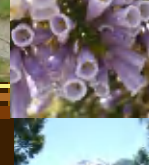


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METHODS TECHNICAL ASSISTANCE AND TRAINING



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METHODS TECHNICAL ASSISTANCE AND TRAINING



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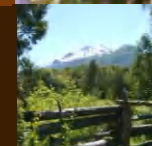
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METHODS TECHNICAL ASSISTANCE AND TRAINING



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RESULTS

- High representation of native flora distinguishes these honeys geographically.
- Controller Designation of Origin (CDO/DOC) Honey guaranteed through Quality Assurance Systems (QA)
- 35 beekeepers gathered in 4 associations (2700 beehives distributed in 90 apiaries)
- Market sale of honey with seal DOC obtained from the Andean and Extra Andean Region.

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RESULTS

High representation of native flora distinguishes these honeys geographically.

Grana, 2008; 000: 1–10



Pollen analysis of honey from Chubut (Argentinean Patagonia)

ALICIA FORCONE

Laboratorio de Palinología, Facultad de Ciencias Naturales, Universidad Nacional de la Patagonia San Juan Bosco (Sede Trelew), Trelew, Chubut, Argentina

Abstract

The pollen content of 140 samples collected between 1995 and 2004 was used to characterise the honey and determine the source of nectar that *Apis mellifera* L. uses in Chubut (Argentinean Patagonia). A diverse spectrum of 139 pollen types from 53 families was identified with the Asteraceae and Fabaceae being most frequent. Forty-eight per cent of the samples analysed were classified as monofloral, whereas the remaining were multifloral. Predominant pollen types were: *Tamarix gallica* L. (Tamaricaceae), in twenty-one samples; Rosaceae and *Melilotus* spp. (Fabaceae) in nine samples; *Trifolium* spp. (Fabaceae) in eight; *Medicago sativa* L. (Fabaceae) in six; *Aristotelia chilensis* (Molina) Stuntz (Elaeocarpaceae) in four; *Discaria-Colletia* (Rhamnaceae) in three; *Escallonia* spp. (Saxifragaceae) in two; *Eucalyptus* spp. (Myrtaceae), Myrtaceae, *Phacelia secunda* J. F. Gmel (Hydrophyllaceae), *Prosopidastrum globosum* (Hook & Arn) Burkart (Fabaceae), and *Schinus patagonica* (Phil) I. M. Johnst. (Anacardiaceae) in one sample. Thirty per cent of the identified pollen corresponded to native flora. Six native taxa made up 18% of the monofloral honey. They included: *Prosopidastrum globosum*, *Discaria-Colletia* type, *Phacelia secunda*, *Schinus patagonica*, *Aristotelia chilensis* and *Escallonia* spp. All of these are new monofloral types in Argentina. Characteristic pollen associations gave a geographical identity to these honeys.

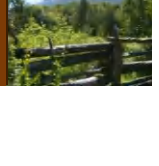
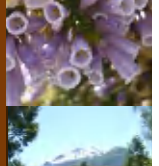
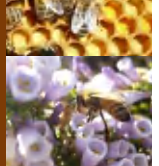
Keywords: *Melissopalynology, Patagonian honey, pollen, bee plants*



Fabiana imbricata
(Palo pinche)

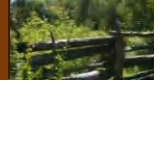
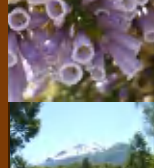
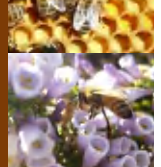
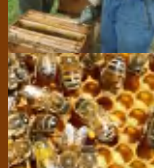
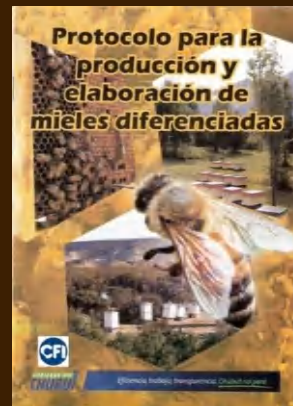
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RESULTS

Controller Designation of Origin Honey guaranteed through Quality Assurance Systems



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RESULTS

35 beekeepers gathered in 4 associations

2700 beehives distributed in 90 apiaries



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RESULTS

Market sale of honey with seal DOC
Andean and Extra Andean Region.



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CONCLUSION

A participatory Program and articulated between institutions is possible and can achieve the purpose for which it was created:

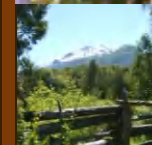
to differentiate and protect the regional bee products

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THANK YOU



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