FOREST FIRE PROTECTION PLAN
• 3.5 million inhabitants (20 per km$^2$ - 95% in cities)
• Temperate Climate - Rain: 1,200 mm/year, distrib. uniform)
• 17.5 million hectares. Gently undulating territory (maximum height: 513m SNM)
• Predominant vegetation: Grasslands
• Agricultural and Forestry Production (recent)
• Forests planted with Eucalyptus and Pine Trees (Export Destination)
  • 2 (+1) Cellulose Plants
  • Board Plants
  • Chipping (Pulp Chips)
  • Impregnated
  • Sawmills
  • Energy
1987 – LAW "FORESTAL"

• Promotes FORESTRY in FOREST FITNESS SOILS and LESS APTITUDE FOR OTHER USES.
• Protects the NATIVE FOREST.
• In conjunction with other laws, it prioritizes the care of the environment, good forestry practices, and the safety of people and goods.

FOREST AREA EVOLUTION - PERIOD: 1990 2018

<table>
<thead>
<tr>
<th>Hectares</th>
<th>1990</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implanted Forest</td>
<td>200,000</td>
<td>1,000,000</td>
</tr>
<tr>
<td>Native Forest</td>
<td>600,000</td>
<td>800,000</td>
</tr>
<tr>
<td>Total</td>
<td>800,000</td>
<td>1,800,000</td>
</tr>
</tbody>
</table>
FOREST FIRE PROTECTION PLAN
IMPLEMENTED AND FINANCED BY MORE THAN 100 PRIVATE COMPANIES, WITH THE COORDINATION OF THE ASSOCIATION OF FOREST OWNERS (SPF)
GENERAL OBJECTIVE:
PROTECTING FOREST HERITAGE

SPECIFIC OBJECTIVES:
Optimize and integrate resources
Improving responsiveness
Sharing and lowering protection costs
PERIOD: Summer - 15/12 to 31/03
DETECTION: 6 aircraft and 15 towers
PROTECTION: 800,000 hectares of effective forest (80% of planted forests)
16 out of 19 Departments
80% of the forests planted
3 Operational Bases:
  Alpha (East - Southeast)
  Bravo (North)
  Charlie (West - Southwest)
3 Central (Coordination and Dispatch)
3 Helicopters (Combat)
21 Brigadier Firefighters (Combat)
ACTIONS

PREVENTION
Preventive forestry, Training, Simulations, Communication Campaigns

DETECTION
Airplanes and Watchtowers, Industry and Community Workers

DEPLOYMENT, COORDINATION AND DISPATCH
Operational Bases / Heliportable Brigades (BRIF’s)

COMBAT
Helicopters with BRIF’s and Companie’s Resources
MANAGEMENT BASED ON:

- Manuals of Procedures
- Software
- Redundant communication systems
- Georeferenced mapps
- Fire Risk Index Calculation (IRIF)
- Real-time satellite tracking
- Companies resources for expanded combat
- State resources if necessary
- Evaluation and upgrade (continuous improvement)
SYSTEM RESOURCES
RESULTS

• Reduction of burned area (less than 20 hectares affected last summer)

• Collaboration among companies
  - Knowledge integration
  - Sharing resources and with external funding
  - Reducing risk

• Complementary work with the state, managing 1,100 foci per season

• Risk management (most fires originate from outside forests)

• Decision support (early and accurate detection)

• Safe work
IN SHORT:

A SYSTEM SELF-MANAGED BY THE PRIVATE SECTOR, ADAPTED TO ITS NEEDS AND AT A REASONABLE COST, WHICH IS DISTRIBUTED IN PROPORTION TO THE AREA OF EACH COMPANY
THE FORESTS ARE LIFE AND WORK, LET´S HELP TAKE CARE OF THEM.

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