Population in region: 3,929,000
Total regional area: 22,123 km²
Population density: 178 people/km²

Nine provinces

About 25% of the total PPP sell in Italy are sell in our Emilia-Romagna Region

SAU – ha | 1,000,000
Agricultural PLV | Euro 4,000,000,000
Phytosanitary Service Mission

Prevent and reduce the damages caused by plant adversities in a sustainable system where we want valorize the regional agricultural products.
ACTIVITY AND STRATEGIES OF SERVICE

- Implement programs of prophylaxis against harmful pests with high phytosanitary risk
- Attuare interventi di profilassi nei confronti di organismi ad elevato rischio fitosanitario

- Define innovative and compatible strategies of plant defense with the protection of the environment and high quality of agricultural production
- Definire strategie di difesa delle piante innovative e compatibili con la tutela dell’ambiente e produzioni agricole e di qualità

- Promote the production of high-quality of propagating material
- Promuovere la produzione di materiale di moltiplicazione regionale di alta qualità

- Contribute to the definition of phytosanitary standards (regional, national and Community)
- Concorrere alla definizione di norme fitosanitarie di valenza regionale, nazionale e comunitario

- Provide plant health specialist support
- Fornire supporti specialistici in materia fitosanitaria
Phytosanitary Service Organization

Director

Official Phytosanitary Control

- Application of regulations (EU, national and regional)
- Land monitoring
- Implementation decrees mandatory fight
- Inspection and certification in import, export and transit
- Authorizations and accreditations (Passports plants, RUP Production and trade of plants)
- Phytosanitary certification of propagating material

Supports

- Testing laboratories
- Plant Protection products
- Communication
- Secretary

Crop protection

- Preparation plant protection guidelines
- Coordinating programs for IPM and organic agricultural
- Forecasting and warning of plant health risks
- Plant protection in urban areas and forest
- Experiments and studies in the field of plant health

76 employees
Components of IPM system

- Research and experimentation
- Relations with the market
- Technical support to farmers
- Support systems for advisors
- Coordination of technical support
- Regulations for integrated production
- Relations with industry
- Voluntary IPM

Regione Emilia-Romagna
IMP surface in Emilia-Romagna Region

**Fruit and vegetable**

**Estimation**
- Blue: Contract between “Farm” and Regional administration
- Red: Farm apply IPM without a contract with Regional administration
- Yellow: Farm apply compulsory IPM
Extensive crops – cereal etc.

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**Estimation**

- Blue: Contract between “Farm” and Regional administration
- Red: Farm apply IPM without a contract with Regional administration
- Yellow: Farm apply compulsory IPM
Contract between “Farm” and Regional administration

Farm apply IPM without a contract with Regional administration

Farm apply compulsory IPM
Pesticide residuals

- Normally who applies IPM reduces:
  - total residuals
  - residual of single pesticide

- Any problem regarding limitation MRL and ArFD

- It is possible to increase numbers of pesticides residual
Pesticides

- According to the crop, 20-35% reduction in the amount used
- Improved impact on humans and the environment:
  - between 70 and 90% reduction in pesticides with high acute toxicity
  - between 40 and 95% reduction in pesticides with high chronic toxicity
- Strict respect for residue limits

IPM - Some results
IPM – Some results:
Application of biological products

- **Apple & pear (roughly 32,000 ha)**
  - Spread of *Antochoris nemoralis*
  - roughly 35,000 doses/ha/year of granulosis virus for codling moth control
  - 800 ha treated with entomopathogenic nematodes for codling moth control
  - 6000 ha using mating disruption technique
  - Use of *Bacillus subtilis* based products

- **Peach (roughly 30,000 ha)**
  - 24,000 ha using mating disruption technique

- **Other crops:**
  - mating disruption largely used
  - beneficial insects largely used in field and greenhouse
  - *Bacillus thuringiensis, Bacillus subtilis, Trichoderma, Azadiractin* ecc.largely used