

Below specific quantitative and qualitative of the project results obtained from the different actions:

- **A1 - Creation of habitat and species database:**

- Two database which contained:
 - Province of Viterbo borders;
 - Flying photos georeferenced in scale 1:10.000 made in the years 2000;
 - Digital Elevation Model (DEM) of Lazio Region, 40 mt resolution;
 - The use of the soil;
 - Inclination (ensured from DEM) with FAO indication;
 - Hydrographic basin of Lazio Region;
 - Phitoclimatic zones of Lazio Region;
 - Geology of Lazio Region;
 - Municipal borders of Viterbo Province;
 - Protect area within Lazio Region;
 - Hydrographic ;
 - Woods belong to the land of Viterbo Province (2000);
 - Electrode holders (2000);
 - Road network (2000);
 - Spread and continuous urbanization;
 - Vegetal and structural elements;

- **A2 - Executive projects which contains:**

- General report;
- Planning instruments;
- Land placement;
- Characterization of the activity;
- Manual of vegetation care;
- Planting modality;
- Cost list and economic prospective;
- Maintenance planning;

- **A5 – training course for public employers;**

More than is employers had taken part in the training course.

- The training course was structured in 80hours:

- a. 56 hours of seminary and lessons;
- b. 24 hours of local visit;

Lesson treated:

- Italy environment policy;
- Community directives;
- Habitat directive, Natura 2000 network, LIFE projects,
- Regulation and management of Natura 2000 network;
- LIFE “Alta Tuscia” project;

- The SCI of Viterbo Province and their management planning;

SCI visited with LIFE projects:

- Laguna di Orbetello (GR);
- Saline di Tarquinia (VT);
- Alta valle dell'Albegna – Monte Labbro (GR).

- **A6 – Adhesion of certification for forestry management system recognized by EU.**

Heighten awareness activity within local companies.

Forestry certification, according to Pan European Forest Certification (PEFC) Protocol, for woods in Selva del Lamone, Regional Natural Reserve, through the society of certification AQA (Management consultant to certification).

Length of certification activity for 5 years since achievement.

- **C1 – Implementation of forestry measures.**

The measures activity was performed in an area 140 ha approssimately.

The activity estimated a mixture wood implementation, implementation of a fire prevention in the SCI areas, removal of some no local species as *Ailanthus altissima*, *Robinia pseudoacacia*, *Pinus nigra*, *Pinus pinaster*.

- **C2 - Implementation of light fencing.**

Implementation of 4 woods fences in 2 important area of SCI Vallerosa al allocation of two panels about the more important nature sites.

- **C3 – Restoration of the river banks of the Olpeta River and Mezzano Lake.**

Measures for improvement was about 350 meter of river bank of Olpeta River and 650 meters of shoreline of Mezzano Lake. Measures to remove no local plants (as Robinia) and cleaning inorganic and organic debris.

- **C4 – Implementation of phitodepuration measures on the banks of the Olpeta River and Mezzano Lake.**

Measures concern to plant a high numbers of plant (*Cyperus longus*; *Tipha latifolia*; *Eleocharis palustris*; *Phragmites australis*, *Iris pseudachorus*; *Ranunculus spp.*). It is was possible to cover all area of measure.

- **D1 – Yearly herbal grass-cutting in 24 hectare.**

Trough using hedge trimmer an mechanic equipment for grass cutting in the specific sit of SIC:

- Vallerosa – 4,8 ha;
- Montecalvo – 6,46 ha;
- Il Crostoletto – 5,2 ha;
- Latera Plane – 6,6 ha;
- Mezzano Lake – 4,9 ha;

It was possible observe the improvement of this measures on the successful spring.

- **D2 – Implementation of forest management measures.**

The measures were performed in all areas described in action C1, which was maintained with cleaning, grass-cutting, removal of non-local plants and removal of plants from areas for fire prevention.

- **D3 – Foot-path maintenance of Selva del Lamone and Mezzano Lake.**

The action was concluded with improvement of the foot-path network on the Reserve of Selva del Lamone, in the area of Olpetta River and Mezzano Lake. The entire project development was carried out in three phases, summer 2006, winter 2007, summer 2007. Foot-paths were opened and ensured for use by tourists and local residents.

- **D4 – River bank vegetation maintenance.**

Maintenance of the planting area of action C3 including grass-cutting, cleaning, etc... In this area it was decided to allocate 500 meters of fence to separate the livestock from the planting area.

- **D5 – Report about a monitoring bat population.**

Updating of bat population in the SIC Fiora-Olpetta River in the 2006 and 2007, with monitoring, identification and evaluation of several species of bat.

- **D6 – Report about monitoring of Mezzano Lake.**

Chemical and physical data and samples of sediments at different depths were collected to observe the cycle state of nutrients; biological samples of macroinvertebrate communities were collected to evaluate the health of the community.

- **E1 – Leaflets Production**

A production of leaflets for public distribution about natural resources European in these areas with Natura 2000 referring:

ACTION E1 production of leaflet, press and public distribution of 30.000 copies;

ACTION E2 production of brochures, press and public distribution of 8.000 copies;

ACTION E8 production of gadget, press and public distribution of 8.000 copies.

The public distribution involved the Local Public Authorities that had the measures implemented, Local Authorities of tourism, Several Kinds of Association, Schools and University of Viterbo

- **E3 – Creation of a website Natura 2000.**

The website: [http:// www.life-natura.viterbo.it/](http://www.life-natura.viterbo.it/), is in two languages Italian and in English. The website is frequently up to date with information concerning the project news including.

- E4 – Drawing up a graphic project for informative panels and boards .

The graphic project foreseen a several kinds of panel. Texts of these panel are reported SIC characteristics on the Tuscia land including species, habitat, a brief description of the project.

- E5 – Allocation of 16 panels.

Allocation of 16 informative panels in 4 local bodies that host the SIC area: allocated on the town centre border towns, and access roads to SIC area.

- E6 – Press conference meeting.

The first press conference was in march 24th 2005. The presentation of project for the local bodies, local authority, regional, environment ministry and European committee. The second press conference was for the information about conclusion of the project results works and forest certifications for Selva del Lamone, these news was publicated in press and web site.

- E7 – Production of Final Report for public distribution (1000 copies).

The report was pressed in 16 pages, in 1000 copies, divided in parts:

1. introduction;
2. Life Natura, others projects;
3. Local Areas and their features;
4. Aims and Actions;
5. List of exsting species and habitats;
6. Mains threat for the habitat and species in these measures areas;
7. Description of important community site and actions made;
8. Summary of actions;
9. Finals consideractions.

The public distribution of the report in two languages: Italian and English; involves all management Public bodies in Italy and public bodies in Viterbo.

- E9 – Public meeting for farmers.

Public meeting for farmers and sheep farmers to heighten avwareness about habitat, fauna and flora threat, informing the inappropriate use of fire, herbicide in locals with wate environment. The public meeting was performed at Rocca Farnese in the Valentano local body in dicember 14 th 2005. During the meeting informative material was distributed including the new policy of rural development; agriculturae and Natura Network 2000; CE directive code rules agricultural European fund.

- **F1 – Coordination structure activation.**

The coordination structure developed a diversify function and involved a large kind of employees, from several public management, including the University of Viterbo and Temi Society for planning. Since December 20th 2004 until the final of project a lot of plenary meeting was arranged with Regional Agency of Soil Defense – Ardis, National Body Forest Ranger, Mayors local bodies, farmes and managers from protect area.

- **F2 – Implementation of update data base report.**

Periodic update of the data base was completed with a monitoring activity and supervision. Further data was updated at last time including a photographic documentation.

- **F3 – Implementation of monitoring valuation of measures reports.**

1. In the conclusion report is described:
2. Aims actions;
3. Valuation of flora conservation status;
4. Analysis's methodology;
5. Elevation;
6. Distribution of the habitat of community interest;
7. Flora of the naturalistic interesting and biogeographic area;
8. Valutation about hight invertebrate conservation in environment water;
9. Macroinvertebrate in fresh water environment;
10. Biotic index in full;
11. Results;
12. Biologics indicates;
13. Conclusions;
14. Bibliography;
15. Technic report about insects condiction before the measures of re - naturalization;
16. Introduction;
17. Material and methods;
18. Survey station;
19. Fauna list;
20. Osservation of some species;
21. Ecological and fauna consideration;
22. Bibliography.

- **F4 – Final Report of measures evaluation.**

Final naturalistic information certify attest the situation and measures conclusions. Improvement of environments state was stimate aimed some year. The cleaning in the river banks filter acquire a strong structure for improvement and others. The project writers verity control. Monitoring measures has:

Action C1: forestry measures;

Action C2: allocation of fence protect to species to prevent tramplim the plants orchids;

Action C3: rever banks and shortlines restored;

Action C4: phytotherapeutic measures;

Action D1: period gross cutting habitat maintenance of community interest.

- **F5– production of Amministrative Report.**

A farein society quality provided the revision of badget, its control, and its rules.

DESCRIPTION ACTION A1

Below specific quantitative and qualitative of the project results obtained:

Description of the actions

Actions initials reference

Results obtained.

Creaction of habitat and species database

There are two database which contains:

- Management provincial of Viterbo border.
- Flyng photos georeferenced in scale 1:10.000 relative the year 2000.
- Digital elevation model (DEM) Regione Lazio (Body Regional Management) in 40 m. resolution.
- The use of the soil (Corine Land Cover 2005)
- Inclination (ensue from DEM) with FAO.
- Hydrographic basins managements – Regione Lazio.
- Phitoclimate zones from Lazio.
- Geology – Regione Lazio.
- Local Bodies border from Provincia di Viterbo.
- Hydrographic network.
- Protect area within Regione Lazio.
- Hydrographic bind.
- Woods belong to the land of Viterbo (2000) – DAF.
- Electrode holders.....
- Road network (2000).
- Settlement installation spread and continuous.
- Structurae elements “hedge” of Provincia di Viterbo.

DESCRIPTION ACTION A2: Description of the measures in the project.

The actions previous of project contains:

- General report (measures description, its motivation, laws, refers, compatibility with measuring device of the land planning, project chose philosophy);
- Land placement map scale in 1:10.000, 1: 4.000, and flyng photo;
- Floor plan of measures (map scala in 1:5.000 and photo local for documentation, tiptologies of measures with able legends);
- Measures characterization (in map scale 1:5.000, and local photo for documentation);
- Brochure for maintenance of cure care (showing in sectionin plant, and planting modality for vegetables essence regarding action C3 and C4);
- Cost list and economy prospective (with cost of work and infrastructure for action C2);
- Price list (cost for the equipment to install);
- Maintenance planning;
- Outsourcing charter.

DESCRIPTION ACTION A5: Training course for employees.

Technician Take part of the all Public Bodies and Lamone Natural Reserve taken part, in training course offering of land management belong to SIC.

The training course was structured in 80 heures divided in:

- 56 hour seminary and lessons in class;
- 24 hour local visit lessons;

In class lessons treated:

- Italy policy envoirement for the land nature preservation;
- “Legge Quadro” for protect area, and community directive;
- Directive for habitat and directive for birds; Nature Net 2000; Life Natura and envoirement projects;
- PDG – Regulation for management Natura Net 2000 careful study about Viterbo situation, valuation in ecology and ecology Net;
- Project Life “Alta Tuscia” preservation forescen actions, natural and lands aspects;
- Precedent project Life Natura executed in Italy;
- Policies and financials up dating regarding Natura Network 2000; Local National and Regional the SIC of Tuscia Viterbese and its planning management.

Below, the SIC place visited during the local visit lesson:

- Orbetello Lagoon in Grosseto;
- Project LIFE NATURA “Salt-mine”;
- Project LIFE NATURA “Albenga High Valley – Labbro Mount.

DESCRIPTION ACTION A6: Adhesion of certification for forestry management system e recognized by Europe.

Heighten awareness activity within local companies.

Forestry certification, according to Pan European Forest Certification (CPEFC) product.

For woods in Selva del Lamone Regional Nature Reserve.

Through the society of certification AQA srl (management consultant for certification in loco), Length certification activity for 5 years since achievement.

DESCRIPTION ACTION C1: Implementation of forestry measures:

The measures activity was performed in an area 140 ha approximately. The activity estimated a mixture wood implementation no local conifer wood thinning out Pino plants removal; implementation of a fire prevention in the helpless woody area SIC.

Removal of some no local species as Ailanthus altissima; Robinia pseudocacia; Pinus nigra var. laricius; Pinus pinaster.

DESCRIPTION ACTION C2: Implementation of light fencing.

Implementation of 4 wooden fences in 2 important area of the SIC Vallerosa and Crostoletto; allocation on 2 panels information about the more important nature sites.

DESCRIPTION ACTION C3: Restoration of the river banks of Olpeta River and shoreline of Mezzano Lake:

Measures for improvement was about 1350 metres river bank for Olpeta River and 650 of shoreline for Mezzano Lake. Measures to removal no local plants (as Robinia) inorganic, organic debris cleaning.

DESCRIPTION ACTION C4: Implementation of phitodepuration measures on the river banks on Olpeta Rivers and shoreline in Mezzano Lake.

Measures concerns to plant a high number of plantas (Cyperus longus; Tiphia latifolia; Eleocharis palustris; phragmites australis; Iris pseudachorus; Ranunculus spp.). it was possible to cover all area of measures.

DESCRIPTION ACTION D1: Yearly herbal gross cutting in 24 hectare.

Through using hedge trimmer and mechanical equipment, for herbal gross cutting in the specific SIC of SIC:

- Vallerosa – 4,8 ha;
- Montecalvo – 6,46ha;
- Il Crostoletto – 5,2 ha;
- Latera Plane – 6,6 ha;
- Mezzano Lake – 4,9 ha.

It was possible observe the improvement of this measures in the successful spring.

DESCRIPTION ACTION D2: Implementation of forest management measures.

The measures were performed in all areas described in action C1, works maintenance of cleaning, gross cutting, removal of ...local plants, removal of plants in the area fire prevention. A very important measure was to optimise the activity of action on C1, removal of conifer plants and ill plants. The area of measure was enlarged with ... area forestry that exceeded 110 hectares previously initially.

DESCRIPTION ACTION D3: Foot path maintenance of Selva del Lamone and Mezzano Lake.

The action was concluded with improvement of the foot path Network on the Reserve of Selva del Lamone, in the area of Olpeta River and Mezzano Lake. The entire project was developed in three phases: summer 2006, winter 2006/2007 and summer 2007. Foot paths were opened and ensured the use by tourists and local residents. In the specific case of Mezzano Lake, the action had a good cooperation of the owner and local Bodies. To reactivate one of the ancient paths along the Lake of Mezzano, it is divided into 4 small paths.

- "Lacioni" path with 3 km;
- "Crack Roses" path with 6 km;
- Link path for the fauna areas with 3 km;
- Mezzano Lake path with 3 km;

Better than previous projects the measures could improve 15 km.

River banks and shoreline maintenance.

Improvement of 1350 metres in riverbanks Olpeta River, improvement of 650 metres in shorelines for Mezzano Lake. Maintenance of the planting areas, including (gross cutting cleaning, watering), it was necessary to plant the following species: (*Cyperus longus*; *Tipha latifolia*, *Eleocharis palustris*; *Phragmites australis*; *Iris pseudachorus*; *Ranunculus* spp.).

In this area it was decided to allocate 500 metres of fence to separate bovine grazing and the rise area.

Report about a monitoring bat population.

Updating of bat population in this SIC Fiora – Olpeta; monitoring in 2006, and 2007 also their relative identification and valuation of several species of bat.

Report about monitoring of Mezzano Lake.

The quality of the waters of the lake was evaluated through the analysis of water and sediment. They were obtained data about precipitation, temperature of air and water, solar radiation, wind speed, relative humidity. Also was used a hydrometer that has measured the height of the water level.

