



## **Forest Resources and Technologies (FOREST) Project**

**Cooperative Agreement Number 118-A-00-00-00119-00**

### **Year Three Workplan**

**July 2002 to June 2003**

*Submitted to*

**United States Agency for International Development  
Moscow, Russia**

*Submitted by*

**Winrock International  
Chemonics International Inc.  
The Heron Group, LLC**

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## **I. Introduction**

The major goals of the Forest Resources and Technologies (FOREST) Project are to promote sustainable forestry management and preserve the Russian forests as a globally important carbon sink, as well as a critical habitat for rare and endangered species.

The Forest Resources and Technologies FOREST Project was designed as the result of discussions held at a workshop in December 1999 between USAID and Russian and international experts. The project was awarded to Winrock International, along with Chemonics International and The Heron Group, on July 21, 2000. Project start-up was conducted during late summer and fall 2000. In October 2000, the first FOREST Advisory Council meeting was convened in Khabarovsk, where 10 members gathered to identify the role of the Council, review a draft of the workplan, and establish the FOREST Project planning process. The initial workplan was finalized early December 2000 during the second Advisory Council meeting in Krasnoyarsk.

The initial workplan included activities from December 2000 to November 2001. The final contractual workplan submitted to USAID was adjusted to cover activities from December 2000 through June 2001 to reflect the contractual and funding cycle of USAID. The FOREST Project Year Two Workplan was submitted by Winrock and its partners and covered proposed activities, planned results, and targets from July 2001 to June 2002.

The FOREST Project Year Three Workplan submitted by Winrock and its partners covers proposed activities, planned results, and targets from July 2002 to June 2003. An initial draft was submitted for USAID's review and distributed to all Advisory Council members. Comments from Advisory Council members were incorporated into this final draft.

### **A. Overall Vision and Objectives**

The FOREST Project was designed through a participatory process that sought to build and expand on efforts supported by USAID in the past. The principle objectives and activities to be funded through the FOREST Project were identified to focus on four major components: fire prevention, pest monitoring, strengthening value-added processing of forest products by working with associations and exploring the potential of biomass energy. The project also conducts research and policy analysis, and provides grants to organizations for activities to support the FOREST goals. FOREST is a technical assistance project using paid and volunteer consultants.

The FOREST Project collaborates with key organizations working in sustainable forestry and environmental issues in Russia and other USAID projects supporting business development. These organizations include the World Bank's Pilot Sustainable Forestry Project, the United States Forest Service, the ROLL Project, and activities of the Russian Government. One of the roles of the Advisory Council is to ensure collaboration with new and ongoing activities relevant to the project's objectives and activities.

In addition to the stated goals of the project and the tasks described below, one of the major goals of the FOREST Project is to build the local capacity of individuals, organizations,

institutions, associations and private companies. For example, in some components, experts are paired with Russian consultants. In other cases, component teams conduct training and work closely with Russian institutions. This approach will ensure sustainability and result in the project using more Russian experts and consultants, and fewer international consultants over the life of the project.

Throughout the project, activities are designed to include women and minorities as beneficiaries of the project activities. Winrock is ensuring that gender and equity issues are addressed through hiring, training, and capacity building. During Year Three, a study will be conducted to assess strategies to promote inclusion of women and minority-owned forest products companies in business associations. Staff are also receiving training on gender analysis in project implementation by the USAID/Russia WID Fellow.

### **B. Overall Accomplishments**

Since the signing of the FOREST Project's contract in late July 2000, the main project office and two branch offices have been established, the Year One and Year Two Workplans were approved, and project activities were implemented during the first half of 2001 continuing through 2002. Additionally, contracts and Memorandum of Understanding (MOUs) have been signed with the major Russian partners. By the end of June 2002, the project will have the following intermediate results:

- Eighty-eight percent of 600 people surveyed recognized the FOREST fire prevention message "Eight out of ten forest fires are caused by people."
- Presented fire danger index on TV stations, developed and aired two television spots and six radio spots and two billboards.
- Trained 152 foresters and 200 teachers to promote fire prevention message in their community and to the students respectively.
- Developed five rest areas for forest users.
- Published the seminar proceedings on methods of monitoring forest pests of Siberia and the Far East.
- Collected and analyzed data from 750 traps placed in Krasnoyarski Krai, Irkutskaya Oblast, Tuva and Khakassia regions in summer 2001 using the help of 120 persons trained under the project.
- Placed 1,500 traps in Krasnoyarski, Khabarovski and Primorski Krai, Irkutskaya and Tomskaya Oblasts, Tuva and Khakassia in summer 2002.
- Developed a map of habitat quality for the Siberian moth in two leskhozoes in the Lower Angara region.
- Developed pheromone traps in Russia.
- Assisted 32 companies in the forest sector.
- Trained 35 people in association strategic planning.
- Established a forest products association on Sakhalin.
- Assisted Year One partner associations increased membership on average by 50% since their partnership with FOREST started, and Year Two partners by an average of 10%.

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- Facilitated agreement between a NTFP business and Korean firm \$50,000/per month to export “chuga” a popular fungus in Asia that is believed to prevent cancer.
- Trained seven association members in advocacy skills.
- Completed two business plans to present to investors for biomass boilers.
- Increased interest of banks to finance biomass and wood products sector.

### C. Russian Partners

FOREST has established formal or informal partnerships with numerous Russian organizations to achieve the project objectives (see list below). The partners’ roles are to help design, research, or implement specific activities. In many cases, the project staff are strengthening these organizations through training and technical assistance. The major Russian Partners and their roles are:

Name of Partners	Location	Component it Supports
Contact Group	Throughout five oblasts/krais	Forest Fire Prevention
Krai Committee of General and Extra-Curricular Education	Khabarovsk	Forest Fire Prevention
Institute of Advance Training for Ecological and Natural Management Specialist	Khabarovsk	Forest Fire Prevention
State Forest Service	Krasnoyarsk	Forest Fire Prevention
Krai Extra-Curricular Education Department	Krasnoyarsk	Forest Fire Prevention
Divnogorsk Technikum	Krasnoyarsk	Forest Fire Prevention
State Forest Service	Sakhalin	Forest Fire Prevention
Institute for Raising Skills for Educators	Sakhalin	Forest Fire Prevention
Krasnoyarsk Center of Forest Protection	Krasnoyarsk	Pest Monitoring
Irkutsk Center of Forest Protection	Irkutsk	Pest Monitoring
Tuva Center of Forest Protection	Tuva	Pest Monitoring
Khakassia Center of Forest Protection	Khakassia	Pest Monitoring
Russian Center of Forest Protection	Moscow	Pest Monitoring
V. N. Sukachev Institute of Forest, Siberian Branch Russian Academy of Sciences	Krasnoyarsk	Pest Monitoring Research
Far Eastern Forestry Research Institute	Khabarovsk	Pest Monitoring NTFP/SWP <sup>1</sup> Research
Moscow Forest University	Moscow	Pest Monitoring
Krasnoyarsk NTFP Association	Krasnoyarsk	NTFP/SWP
Far Eastern Association of Secondary Wood Product Manufacturers	Khabarovsk with activities throughout five oblast/krais	NTFP/SWP
Khabarovsk NTFP Association	Russia Far East	NTFP/SWP
Sakhalin Association of Forest Product Processors	Sakhalin	NTFP/SWP
Region 7 NTFP Association	Khabarovsk	NTFP
Forest Inventory Enterprise	Khabarovsk	NTFP/SWP
Pacific Institute of Geography		Research
Saint Petersburg Forest Ecological Center		Research
International Institute for Applied Systems Analysis		Research
Far Eastern Economics Research Institute	Khabarovsk	All Components
Ministry of Natural Resources	All Areas	All Components

<sup>1</sup> NTFP/SWP=non timber forest products/secondary wood processing

## **D. Advisory Council Role and Accomplishments**

In October 2000, the FOREST Project Advisory Council was formed and by-laws established. The Advisory Council meets semi-annually, and consists of the following members:

Valeriy Pavlovich Roschupkin, First Deputy Minister, Ministry of Natural Resources, Moscow	Vladimir Fyodorovich Chekhov, Deputy Chairperson, Committee of Natural Resources, Irkutskaya Oblast
Nickolai Alexeevich Andreev, Head, Department of Forest Management and Reforestation, Ministry of Natural Resources, Moscow	Alexander Mikhailovich Kotelnikov, Deputy Head, Department of Forest Industry Complex, Sakhalin Oblast Administration
Gennady Aleksandrovich Chekurdaev, Deputy Head, Committee of Natural Resources, Sakhalin Oblast	Alexander Nickolaevich Kulikov, Chairman, The Wildlife Foundation, Khabarovsk
*Vladimir Andreevich Zvantsev, Deputy Governor on Natural Resources, Head of the Main Department on Natural Resources, Krasnoyarski Krai	Vladimir Nickolaevich Vekshin, Deputy Head, Natural Resources Committee, Head, State Forest Service, Krasnoyarski Krai
Vladimir Mikhailovich Kolomytsev, Head, Department of Natural Resources, Khabarovski Krai	*Liz Mayhew, Program Coordinator, US Forest Service
Sergey Evgenievich Pstyga, Head, Department of Forest Resources, Primorski Krai	Andrei Vitimovich Selikhovkin, Deputy Head of the Forest Academy, Saint Petersburg
Sergei Mikhailov, Deputy Head of the Department for State Energy Supervision and Energy Conservation, Ministry of Energy, Moscow	Alexander Borisovich Levintal, Acting First Deputy Governor, Minister, Ministry of Economic Development and Foreign Relations, Khabarovski Krai
Andrey Kushlin, Senior Forestry Specialist, World Bank, ECSSD, Washington, DC, US	Natalya Leonidovna Velikodnaya, Chief Editor, NTV Channel Ecological TV Program, Moscow
Craig VanDevelde, FOREST Project Manager, Khabarovsk	Lyudmila Vikhrova, Environmental Division, USAID/Russia
Vitaliy Ivanovich Solodun, Acting Deputy Head, Committee of Forest Resources, Acting Head, State Forest Service, Primorski Krai	Carol Pierstorff, Chief, Environmental Division, Office of Business Development and Investment, USAID/Russia

\* New advisory council members joining the project in June 2002.

The Advisory Council has approved the Year One, Year Two, and Year Three Workplans and provided valuable input to each component. The Advisory Council will continue to operate for the life of the project.

## **E. Collaboration and Coordination with Other Organizations**

The FOREST Project maintains a keen interest in collaborating with other organizations. FOREST staff try to take advantage of opportunities that arise to share information and ideas. A summary of the past activities include:

- Inviting U.S. Forest Service (USFS) and World Bank representatives to join the Advisory Council.
- Communicating regularly with U.S. Forest Service International Programs on activities and ways to collaborate. For example, USFS has supported FOREST by requesting Pete Owston to spend time with a delegation of secondary wood processors who visited Seattle in May; and by providing USFS technical expert consultants to work under the volunteer component.
- Meeting with ROLL Project Staff in Moscow.

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- Meetings between FOREST staff and World Bank Pilot Project representatives to discuss coordination.
- Meeting with IUCN and WWF to explore ways to collaborate on policy and other issues.
- Meeting with the McGregor Project representatives to discuss potential areas for collaboration.
- Attending the Ad Hoc Working Group Meeting in Ulan Ude.

With the World Bank Pilot Sustainable Forestry Project approved, the two projects will identify ways to collaborate during the upcoming Advisory Council meeting. In addition, the FOREST Project will identify concrete ways to collaborate with the USFS.

### F. Overall Project Management Tasks in Year Three

The FOREST Project brings together diverse components, all working towards improving the sustainable management of the forests. There are several activities that will be completed during Year Three to improve project management, integration of activities, and reporting. These include the following:

**i. Complete Project Database that Tracks Results.** The current database is primarily for managing project activities (consultants, volunteers, etc). The final aspect is to add the key indicator fields so results can be aggregated across components.

#### Technical Assistance:

International	Months	Russian	Months
Fisher	1	Kouptsov	2
Moquin	1	Database Manager	2
Total	2	Total	4

**Other Resources Needed:** Software and computer for server.

**Deliverables:** Functioning database.

**Timetable:** Database program completed by October 2002.

**ii. Geographic Information System (GIS).** During Year Three GIS tools will be established to ensure components can share information and maps can be developed in Russian and English.

#### Technical Assistance:

International	Months	Russian	Months
		Russian Computer Expert	4
		GIS Manager	4
Total	0	Total	8

**Other Resources:** ArcInfo and ArcView Software; Server Space, input from the components; access to GPS Units.

**Deliverables:** Linked GIS system that shows maps of the five project regions.

**Timetable:** Basic GIS designed by September; most layers completed by December 2002.



## **II. Year Three Workplan**

Annual workplan development is an iterative process. Future plans and tasks are based on the previous year's successes and challenges so that lessons are quickly incorporated in the planning process. Component teams in coordination with Working Group members and Russian specialists have drafted this Year Three Workplan.

### **A. Component 1: Forest Fire Prevention**

#### **1. Background and Proposed Approach and Priorities**

According to official estimates, eight out of ten fires in the Russian Far East (RFE) and Siberia are caused by people. The FOREST Project is working to change behaviors and attitudes of people in the Russian Far East and Siberia to reduce the incidence of human-caused forest fires through a combination of targeted training and general awareness activities. The goal of this component is to reduce the number of human-caused fires in the five regions covered by the project. The Fire Prevention component has had marked success in Years One and Two and its innovative approach has been recognized by many as a valuable addition to the forest fire prevention program in Russia.

Changing behaviors is a complex process which takes time. The Forest Fire Prevention team draws upon communications research and practical experience from throughout the world as well as audience research and strategic communication planning to develop a systematic approach to behavioral change. FOREST works to involve and mobilize professional foresters and as many influential groups as possible in the five target areas, developing communication programs and advocates of forest fire prevention. These groups—forest services, mass media, schools, NGOs, associations, private sector organizations, community leaders, and others—will continue to be advocates long after the FOREST Project is finished and will create a multiplier effect, training and encouraging others in forest fire prevention behavior, thus sustaining the forest fire prevention program over the long term. Basic materials for mass media, forester training in communications, educating school aged children, and targeted groups campaigns have been prepared and distributed through more than 750 individuals and groups. In summary, the role of FOREST is to be a catalyst and facilitator to get others to promote forest fire prevention.

#### **2. Summary of Year Two Results**

Ten basic program tasks were identified in the Year Two workplan for this component. The planned targets were achieved in each task, and in many cases the number of activities and deliverables were exceeded. In all cases the process was participatory with our partners actively involved in each step.

During Year Two (the first full fire season for the FOREST Project), FOREST carried out the four major thrusts: general awareness, foresters, school aged children, and targeted groups in Khabarovski Krai. Communication programs were also initiated in both Krasnoyarski Krai and Sakhalin Oblast during the second year, exceeding the original workplan objectives.

FOREST has demonstrated results in getting the fire prevention message out. In March 2002 a follow-up survey was conducted of 600 randomly selected people in two of the target areas in

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Khabarovski Krai which included questions on their exposure to messages from the general awareness campaign. Ninety-two percent of respondents recalled hearing or seeing messages related to fire prevention. Eighty-eight percent of the respondents had seen or heard and remembered the message, “Eight out ten forest fires are caused by people” which was the campaign theme and repeated in all programs.

In addition, the Fire Prevention Component accomplished the following:

- Devoted increased mass media coverage to fire dangers and prevention information.
- Produced and aired two TV spots on two stations.
- Installed two billboards in strategic locations.
- Organized five community events.
- Made and loaned out two sets of bear and tiger costumes to community groups to use for public functions in addition to fact/tip sheets supplied for distribution.
- TV stations included information on the fire danger index as part of their weather and news programs.
- Awarded one Campaign Contract to promote fire safety behavior to the general public as well as to targeted populations.
- Completed two training of trainer manuals.
- Three rest areas are under development.
- Trained 200 teachers, 700 Junior Forest Rangers, and more than 29 Green Team students on spreading fire prevention message.
- Six fact sheets and five tip sheets produced.

### Russian Partners

Russian partners have been identified in each of the five krajs/oblasts, based upon recommendations from the forest services and the regional coordinators. Key partners in the three active regions include:

- Khabarovski Krai – Far East Department of the Ministry of Natural Resources, mass media, NGOs, Krai Committee of General and Extra-Curricular Education, leskhozoes, Institute of Advance Training for Ecological and Natural Management Specialist, Ecological/Biological Centers, and Junior Forest Rangers Teams.
- Krasnoyarski Krai – State Forest Service, mass media, NGOs, leskhozoes, Divnogorsk Technikum, and the Krai Extra-Curricular Education Department.
- Sakhalin Oblast – State Forest Service, Mass Media, NGOs, leskhozoes, and Institute for Raising Skills for Educators.

In addition, the Fire Prevention Contact Group includes more than 750 individuals/organizations who have expressed interest in helping promote forest fire prevention. This group is continually expanding in number and the types of activities they carry out.

### Working Group Formation

A working group in Khabarovski Krai consisting of forest service officials, mass media representatives, NGOs, and representatives from organizations involving school children was established during Year One. The working group provided advice and assistance in the design

and implementation of the various communication programs. This working group met twice during Year Two.

During Year Two the working group was modified to serve the program expansion into the five participating krajs/oblasts. The new working group consists of the five regional coordinators and one other key stakeholder from each krai/oblast. At the end of Year Two, a meeting was held with the new working group to discuss the Year Three workplan and how they can support its implementation.

### **3. Changes and Adjustments from the Year Two Workplan**

A few adjustments were made in the Year Two Workplan. In general, the Fire Prevention team exceeded targets for deliverables. Activities that varied from the workplan include:

- Two manuals were developed to train partners (teachers and foresters) to spread the fire prevention message. Fewer fact sheets were developed.
- An additional Knowledge/Attitude/Practice (KAP) Survey was conducted (in Sakhalin Oblast).
- Five rest areas developed (rather than two).
- A sustainability plan was developed.

### **4. Tasks for Year Three**

The basic structure of the Fire Prevention workplan for Year Three is the same as Year Two, with a few refinements. The Forest Fire Prevention Communications Program contains the same four basic tasks as last year – general awareness, foresters’ communications skills, school aged children, and targeted groups. The major effort and resources will be channeled through these four basic tasks.

The *Supporting Tasks for the Communications Program* has been refined somewhat. Task 5, Monitoring and Evaluation, is new. It includes the Year Two tasks related to audience research and monitoring fire data plus adding subtasks related to monitoring mass media exposure, the school aged children program, and the forester training program. This group also includes tasks related to supporting the development of rest areas, Contact Group, and the sustainability program (which was a separate group last year).

The matrix at the end of this section summarizes the workplan for Year Three. The next section gives brief explanations of these groups and tasks.

The communications programs will continue in Khabarovski Krai, Krasnoyarski Krai, and Sakhalin Oblast and initial steps will be made to expand the program into Irkutskaya Oblast and Primorski Krai. These programs will build upon the experience and materials/programs developed during the first two years.

### ***Forest Fire Prevention Communications Program***

The following four tasks make up the core communications programs for Component 1 directed at creating awareness and eventually changing behaviors of people thereby reducing the number of human-caused forest fires.

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**i. General Awareness.** The general awareness programs initiated during the first two years in Khabarovski Krai, Krasnoyarski Krai, and Sakhalin Oblast will continue and be expanded with more influential groups – mass media, NGOs, community groups, and others – becoming involved in the forest fire prevention education and communication programs. During Year Three, the general awareness program will be initiated in Irkutskaya Oblast and Primorski Krai. Some of the activities will include general awareness contracts to local groups, billboards, journalist competitions, including the fire danger index with weather and other mass media programs, community events, and other activities.

**Technical Assistance:**

International	Months	Russian	Months
Abbott (May/June 2003)	.5	Liamets (intermittent)	5.0
VanDevelde (intermittent)	1	Piven (intermittent)	4.3
		Kras. & Sak. C1 Reps (intermittent)	6.9
		Russian Consultants TBD	2.6
Total	1.5	Total	18.8

**Other Resources Needed:** Contracts to local groups to initiate and implement community communications programs, constructing billboards, printing materials, gathering fire index information, production of souvenirs, and travel within Khabarovski Krai and to the other participating krajs/oblasts.

**Deliverables:** Continuation of the general awareness communications programs in Khabarovski Krai, Krasnoyarski Krai, and Sakhalin Oblast and new programs initiated in Irkutskaya Oblast and Primorski Krai.

**Timetable:** Continuous from July 2002 through June 2003.

**Year Three Indicators and Targets:** Fire prevention communications programs operational in the five krajs/oblasts.

**ii. Strengthening Foresters' Communications Skills/Community Participation.** Foresters who are in contact with forest visitors and local communities are essential spokespeople for the forest fire prevention communications program. In the past, foresters were not trained in communications skills and community participation. During Year Two, this task was successfully launched in Khabarovski Krai. During Year Three this training program will continue in Khabarovski Krai and begin in Krasnoyarski Krai and Sakhalin Oblast. This task will involve finalizing the foresters' communication manual, continuing to produce extension aids, and preparing plans for Primorski Krai and Irkutskaya Oblast training programs for Year Four.

**Technical Assistance:**

International	Months	Russian	Months
Hilleman (Oct 2002 & Feb/Mar 2003)	1.7	Piven (intermittent)	2.3
		Liamets (intermittent)	1.4
		Kras. & Sak C1 Reps (intermittent)	6.4
		Khab. Admin. Assistant (intermittent)	4
		Local Training Consultants TBD	6
Total	1.7	Total	20.1

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**Other Resources Needed:** Training costs (facilities, materials, travel and per diem of participants); contract for printing the communication manual and extension aids; travel to other participating krais/oblasts.

**Deliverables:** The third round of training will be completed in Khabarovski Krai, training programs initiated in Krasnoyarski Krai and Sakhalin Oblast, communication manual finalized and printed; and forester training plans developed for Primorski Krai and Irkutskaya Oblast.

**Timetable:** Continuous from July 2002 through June 2003.

**Year Three Indicators and Targets:** Specialized communication training for 50 foresters in Khabarovski Krai, 100 foresters trained in Krasnoyarski Krai, 50 foresters trained in Sakhalin Oblast, communication manual, extension aids, and training plans for Primorski Krai and Irkutskaya Oblast.

**iii. Strengthening Organizations Involving School Aged Children.** This highly successful program will be continued in Khabarovski Krai, Krasnoyarski Krai, and Sakhalin Oblast, involving additional educators as it expands. Programs will be initiated in Irkutskaya Oblast and Primorski Krai working with organizations involving school aged children and training their staffs.

### Technical Assistance:

International	Months	Russian	Months
VanDevelde (intermittent)	3.3	Piven (intermittent)	.5
		Liamets (intermittent)	.5
		Kras. & Sak. C1 Reps (intermittent)	3.6
		Admin. Assistant (intermittent)	4.5
		Local Education Consultants TBD	7.4
Total	3.3	Total	16.5

**Other Resources Needed:** Cost of training seminars (facilities, travel and per diem by participants, materials, etc.), travel by trainers, trips to participating krais/oblasts, and contract for printing new teaching manual.

**Deliverables:** Training seminars in the five participating krais/oblasts and a new teacher manual.

**Timetable:** Continuous from July 2002 through June 2003.

**Year Three Indicators and Targets:** School aged program operating in Khabarovski Krai, Krasnoyarski Krai and Sakhalin Oblast with 500 educators involved in the program; school aged programs initiated in Irkutskaya Oblast and Primorski Krai with 50 educators involved in these new programs.

**iv. Targeted Groups Campaigns.** This task focuses on high-risk groups that cause forest fires. In Year Two, campaigns directed towards picnickers and hunters were implemented in selected areas of Khabarovski Krai. It is planned this program will continue with additional communication campaigns implemented for selected targeted groups in Khabarovski Krai, Krasnoyarski Krai, and Sakhalin Oblast working through NGOs, community groups, and other stakeholder groups (such as associations, etc.). This will involve contracting the local groups and producing banners and other materials for them to use.

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### Technical Assistance:

International	Months	Russian	Months
Abbott (May/June 2003)	.2	Liamets (intermittent)	.5
VanDevelde	.2	Piven (intermittent)	.5
		Kras. & Sak. C1 Reps (intermittent)	.8
Total	.4	Total	1.8

**Other Resources Needed:** Contracts issued to local groups through a competitive bidding process; contracts for printing banners, and other materials.

**Deliverables:** Targeted campaigns in Khabarovski Krai, Krasnoyarski Krai, and Sakhalin Oblast; and materials supporting these campaigns.

**Timetable:** July 2002 – October 2002 and March 2003 – June 2003.

**Year Three Indicators and Targets:** Three targeted campaigns identified and contracted to local groups.

### *Supporting Tasks for the Communications Program*

The tasks above are the core activities of the Forest Fire Prevention Communications Program. The following tasks are crosscutting and designed to support these core tasks. These are important in providing research information for designing the four communication programs, packaging information for dissemination through the core programs, monitoring implementation, and making recommendations for refinements, as well as creating sustainability for the overall forest fire prevention communication programs after the FOREST project is completed.

**v. Monitoring and Evaluation.** This is a new task for Year Three which merges from Year Two tasks related to public opinion polling/audience research and monitoring forest fires. Baseline KAP studies will be conducted in Irkutskaya Oblast and Primorski Krai in preparation to launch communications programs in those regions during Year Four. The forest fire monitoring will continue in Khabarovski Krai with an annual report written on the core impact indicator. This task also involves other activities which emerged during Year Two. These include monitoring the implementation of the school-aged program, and monitoring the foresters' community activities. The purpose of this task is to provide the Forest Fire Prevention Communication Program team and key stakeholders information on how to most effectively design and implement the core communications programs.

### Technical Assistance:

International	Months	Russian	Months
Abbott (US)	.4	Liamets (intermittent)	1.5
VanDevelde (intermittent)	.3	Piven (intermittent)	1.1
Hilleman (US)	.2	Khab. Admin Assistant (intermittent)	2.3
		Kras. & Sak. C1 Reps (intermittent)	1
		Local Consultants TBD	12.4
Total	.9	Total	18.3

**Other Resources Needed:** Contracts will be issued to polling firms for the baseline KAP studies in Irkutskaya Oblast and Primorski Krai, and to individuals for forest fire data collection and analysis in Khabarovski Krai.

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**Deliverables:** Baseline surveys will be completed in Irkutskaya Oblast and Primorski Krai; annual report on forest fire monitoring and percent human-caused fires in Khabarovski Krai; and reports on monitoring the school aged program and forester training program.

**Timetable:** Intermittently throughout Year Three.

**Year Three Indicators and Targets:** Two new KAP studies, forest fire monitoring report, and reports with recommendations on the school aged program and forester training programs.

**vi. Institutionalization of Public Awareness Program for Sustainability.** Based upon the experience gained in Year Two, this task will be modified and new approaches will be tested in Year Three. During the year, plans will be finalized for identifying resource groups in Khabarovski Krai, Krasnoyarski Krai, and Sakhalin Oblast that will maintain and distribute the fire prevention communication materials and programs developed by FOREST. The Fire Prevention team will provide some supporting materials to these centers and funds to establish the centers will be provided by the grants component. To help guide this program and the overall program implementation of the Fire Prevention Communication Program, a new inter-regional working group was formed during Year Two consisting of the existing regional coordinators and one representative of the contact group in each participating krai/oblast. There will be constant communications with the working group plus two 2-day meetings held with them to discuss program implementation and getting recommendations for the Year Four workplan. Both of the activities will be monitored and adjustments made in their implementation, if needed.

**Technical Assistance:**

International	Months	Russian	Months
VanDevelde (intermittent)	.8	Liamets (intermittent)	1.3
Woods (intermittent & March 2003)	.5	Piven (intermittent)	1.4
		Kras. & Sak. C1 Reps (intermittent)	1.5
Total	1.3	Total	4.2

**Other Resources Needed:** Materials for the resource centers for the sustainability program, grants from Component 7 for the centers, meeting costs (travel, per diem, meeting facilities, etc.) for two working group meetings.

**Deliverables:** Plans for establishing resource centers for continued dissemination of forest fire prevention communications materials. Two meetings held with the inter-regional working group.

**Timetable:** Intermittent throughout Year Three.

**Year Three Indicators and Targets:** Three resource centers identified and programs with them initiated; two meetings with the inter-regional working group; and a report evaluating the sustainability program and new working group.

**vii. Production and Distribution of Fact/Tip Sheets.** During Year Two this task was modified somewhat with attention put on gathering, digesting, and packaging information for the teachers' manual for the school aged program and for the communication manual for the foresters' training. While fact/tip sheet production was done, it was not at the scale originally envisioned. The information that has been packaged in the manuals plus other information will be packaged into fact sheets (for use by the Contact Group and other interested influential groups) and tip sheets (to be disseminated to the public and target groups).

## FOREST Project Year Three Workplan

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**Technical Assistance:**

International	Months	Russian	Months
VanDevelde (intermittent)	.4	Liamets (intermittent)	.5
		Piven (intermittent)	.7
		Russian Consultants TBD	4.3
Total	.4	Total	5.5

**Other Resources Needed:** Contracts for printing the fact/tip sheets.

**Deliverables:** Fact/tip sheets produced and distributed.

**Timetable:** Continuous from July 2002 through June 2003.

**Year Three Indicators and Targets:** Fifteen fact/tip sheets produced and distributed.

**viii. Support Development of Rest Areas.** During Year Two the procedures were developed for identifying and supporting the development of the forest rest areas with two grants approved by the FOREST Project Advisory Council and administered by the grant component. The Fire Prevention component monitored the construction and compliance with the terms of reference. During Year Three the Fire Prevention Component will continue to support this program in each of the krajs/oblasts working with the grant component. The Fire Prevention team will help identify areas and organizations to apply for grants, assist in selection of the grantees, and monitor construction and compliance with the terms of reference.

**Technical Assistance:**

International	Months	Russian	Months
Volunteer forester (March 2003)	2	Liamets (intermittent)	.5
VanDevelde (intermittent)	.2	Piven (intermittent)	.5
		Kras. & Sak. C1 Reps (intermittent)	1.8
Total	2.2	Total	2.8

**Other Resources Needed:** Volunteer US forester to assess progress and provide technical assistance. Supplemental materials produced by Component 1 will be provided to the grantees for the rest areas. These materials will be funded by other tasks in Component 1.

**Deliverables:** The volunteer will prepare a report on the progress made in establishing forest rest areas.

**Timetable:** Intermittently throughout Year Three.

**Year Three Indicators and Targets:** One progress report.

**ix. Increasing Participation and Information Exchange by Contact Group.** The Contact Group is the heart of the Fire Prevention Communication Program by serving as a catalyst and facilitator, getting influential groups to be communicators of forest fire prevention messages and programs. By the end of Year Two, there were more than 750 individuals/groups in the Contract Group. The number will continue to expand. At the end of the second year the information on these members of the Contact Group were kept in four databases. During Year Three these will be integrated into a single database which has sorting capabilities and can generate mailing lists. As the sustainability program progresses the appropriate names can be pulled off the database for the resource centers to continue providing information in their krai/oblast. The newsletter for the Contact Group will continue on a quarterly basis.



## FOREST Project Year Three Workplan

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### Technical Assistance:

International	Months	Russian	Months
VanDevelde (intermittent)	.1	Liamets (intermittent)	.3
		Piven (intermittent)	.3
		Local Consultants	2.5
Total	.1	Total	3.1

**Other Resources Needed:** The printing and distribution of the newsletter.

**Deliverables:** Additional members of the Contact Group, an integrated database, and quarterly newsletter.

**Timetable:** Continuous from July 2002 through June 2003.

**Year Three Indicators and Targets:** 1,200 total members in the Contact Group, one database, and four newsletters.

### *Administrative Tasks*

The following two tasks relate to administrative activities in program development, technical backstopping, and administrative and financial reporting for Component 1.

**x. Workplan/Program Development.** This task focuses on the development of the technical program related to the Fire Prevention Communication Program. The major focus will be on the development of the Year Four workplan which will involve the component team, working group, selected members of the Contact Group, and the FOREST Advisory Council.

### Technical Assistance:

International	Months	Russian	Months
Woods (March 2003 in the field)	.5	Liamets (March 2003)	.1
VanDevelde (March 2003)	.1	Piven (March 2003)	.1
		Kras. & Sak. Comp. 1 Reps (March 2003)	.3
Total	.6	Total	.5

**Other Resources Needed:** Travel of the Krasnoyarski Krai and Sakhalin Oblast Component 1 representatives to Khabarovsk for workplan development discussions.

**Deliverables:** Year Four workplan.

**Timetable:** Year Four workplan development in March 2003.

**Year Three Indicators and Targets:** Year Four Component 1 workplan.

**xi. Project Monitoring and Reporting.** This task involves the technical monitoring and backstopping of the field team and expatriate consultants as well as the administrative and financial monitoring and reporting for this component. The reporting involves monthly flash reports, quarterly reports, and an annual report which involve both the field team and home office staff.

### Technical Assistance:

International	Months	Russian	Months
Woods (intermittent in the U.S.)	.6	Liamets (intermittent)	.3
Slattery (intermittent in the U.S. and Dec. in the field)	.4	Piven (intermittent)	.3
VanDevelde (intermittent)	.7	Kras. & Sak C1 Reps (intermittent)	1
		Filina (intermittent)	1
Total	1.7	Total	2.6

## FOREST Project Year Three Workplan

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**Other Resources Needed:** None

**Deliverables:** Technical backstopping and reviewing technical reports, scopes of work for contracts and consultants, briefing and debriefing expatriate consultants, guiding field team in adjusting the workplan to meet unexpected situations; monthly flash reports; quarterly progress reports; annual report; and financial reports.

**Timetable:** Continuously from July 2002 through June 2003.

**Year Three Indicators and Targets:** Technical support and backstopping to field team, monthly flash reports, quarterly progress reports, annual report, and financial reporting.

**FOREST Project Year Three Workplan**

**Component 1 Year Three Tasks**

<b>Task</b>	<b>Activity Months</b>	<b>Persons/ Institutions Involved</b>	<b>Person Months</b>	<b>Travel</b>	<b>Other Inputs (meeting costs, equipment, etc.)</b>	<b>Deliverables</b>	
<b><i>FOREST FIRE PREVENTION COMMUNICATION PROGRAMS</i></b>							
i.	General Awareness	Continuous	Ludmila Liamets Dmitry Piven Russian Consultants Eric Abbott Cari Ann VanDevelde	18.8 Russian 1.5 International	Domestic travel	Russian production costs and contracts to local groups	Public awareness programs implemented in five krais/oblasts
ii.	Strengthen Foresters' Communications Skills/Community Participation	Continuous	Dmitry Piven Ludmila Liamets Russian Consultants Dan Hilleman	20.1 Russian 1.7 International	Domestic travel	Training and production costs	200 foresters trained
ii.	Strengthening Organizations Involving School Aged Children	Continuous	Dmitry Piven Ludmila Liamets Training Consultants Cari Ann VanDevelde	16.5 Russian 3.3 International	Domestic travel	Production and training costs	550 Educators involved
iv.	Targeted Groups Campaigns	Continuous	Ludmila Liamets Dmitry Piven Eric Abbott Cari Ann VanDevelde	1.8 Russian 0.4 International	Domestic travel	Production costs and contracts to local groups	3 campaigns implemented by local groups
<b><i>SUPPORTING TASKS FOR THE COMMUNICATIONS PROGRAM</i></b>							
v.	Monitoring & Evaluation	Continuous	Dmitry Piven Ludmila Liamets Local Consultants Kras & Sak C1 Reps Eric Abbott Harry McClellan Cari Ann VanDevelde Dan Hilleman	18.3 Russian .9 International		Contracts to polling firms, and fire data collection	2 KAP baseline studies Annual summary report on fires Program monitoring reports

## FOREST Project Year Three Workplan

	<b>Tasks</b>	<b>Activity Months</b>	<b>Persons/ Institutions Involved</b>	<b>Person Months</b>	<b>Travel</b>	<b>Other Inputs (meeting costs, equipment, etc.)</b>	<b>Deliverables</b>
vi.	Institutionalization of Public Awareness Program for Sustainability	Continuous	Ludmila Liamets Dmitry Piven Kras. & Sak C1 Reps Cari Ann VanDevelde John Woods	4.2 Russian 1.3 International	Domestic travel	Materials for resource centers	Plan for sustainability and new inter-regional working group
vii.	Production and Distribution of Fact/Tip Sheets	Continuous	Russian Consultants Local Consultants Cari Ann VanDevelde Ludmila Liamets Dmitry Piven	5.5 Russian 0.4 International		Printing and distribution of fact/tip sheets	15 fact/tip sheets
viii.	Support Development of Rest Areas	Continuous	Dmitry Piven Kras. & Sak. C1 Reps Volunteer forester Cari Ann VanDevelde	2.8 Russian 2.2 International		Volunteer forester	Progress report
ix.	Increasing Participation and Information Exchange by Contact Group	Continuous	Ludmila Liamets Dmitry Piven Local Consultants Cari Ann VanDevelde John Woods	3.1 Russian 0.1 International		Printing & distribution newsletter	1,200 total Contact Group members Integrated database Quarterly newsletter
<b>ADMINISTRATIVE TASKS</b>							
x.	Workplan/Program Development	March 2003	Dmitry Piven Ludmila Liamets Kras. & Sak. C1 Reps John Woods Laura Slattery Cari Ann VanDevelde Harry McClellan Eric Abbott	0.5 Russian 0.6 International	Domestic travel		Year Four workplan

**FOREST Project Year Three Workplan**

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	<b>Tasks</b>	<b>Activity Months</b>	<b>Persons/ Institutions Involved</b>	<b>Person Months</b>	<b>Travel</b>	<b>Other Inputs (meeting costs, equipment, etc.)</b>	<b>Deliverables</b>
xi.	Project Monitoring and Reporting	Continuous	Ludmila Liamets Dmitry Piven Kras. & Sak C1 Reps Laura Slattery John Woods Cari Ann VanDevelde	2.6 Russian 1.7 International			Technical backstopping Monthly flash reports Quarterly reports Annual report Financial reports

## **B. Component 2: Pest Monitoring**

### **1. Background and Proposed Approach and Priorities**

The FOREST Project is introducing an integrated pest monitoring methodology to track forest insect pest populations to increase the ability of the Ministry of Natural Resources to prevent pest outbreaks. The implementation of the new pest monitoring methodology in the Russian Far East is extremely important not only for saving Russian forests, but, also for protecting forests outside of Russia as well. In the light of past experience with the Asian gypsy moth being introduced into the U.S. via grain ships arriving from several ports in the Russian Far East, it is in the best interest of the U.S. economy to monitor for incipient outbreaks of the Siberian moth and resultant activity by wood boring insects in the Primorski and Khabarovski Krai. Accordingly, the Primorski and Khabarovski Krai Centers for Forest Protection and the FOREST Project initiated monitoring in that area in Year Two.

The methodology focuses on monitoring habitat preferred by the Siberian moth within the vast territories of Siberia and the Russian Far East. The methodology also uses geographic information system technology, and contemporary sampling methods such as pheromone traps. The approach has been proven in other countries to be a more cost effective and reliable system for tracking outbreaks of moths and beetles than traditional survey techniques.

### **2. Summary of Year Two Results**

During Year Two of the project, pheromone traps were widely introduced into the pest monitoring systems in Kasnoyarski Krai, Khabarovski Krai, Primorski Krai, Irkutskaya and Tomskaya Oblasts, and the Republics of Tuva and Khakassiya. The Pest Monitoring Team also developed a database to monitor results, trained 126 people (partners and consultants) in specific aspects of the methodology, and published forest protection and public awareness literature.

In developing the Year Three Workplan, the Component 2 team proposes to continue the work of previous years. Priorities for work in Year Three remain essentially the same.

#### Russian Partners

The FOREST Project has worked successfully to include a diverse group of Russian partners in Component 2. At present, partners include Centers of Forest Protection of Krasnoyarski and Primorski Krai, Irkutskaya and Tomskaya Oblast, Republics Tuva and Khakassiya, Khabarovsk Seed-Breeding and Forest Management Center and the Russian Center of Forest Protection in Moscow, all of which are part of the Ministry of Natural Resources of the Russian Federation. Other partners include the V. N. Sukachev Institute of Forest, and Institute of Animal Systematics and Ecology, both from the Siberian Branch, Russian Academy of Sciences and the Far East Institute of Forestry Research, Institute of the Chemical Tools of Plant Protection and Moscow Forest University.

#### Working Group Formation

The Component 2 Working Group is fully formed and is composed of representatives from each of the Russian partners listed above, the Component 2 coordinator, as well as two representatives from The Heron Group. The Working Group Leader is Dr. Lubov S. Matusevich and the Component 2 Russian Coordinator is Dr. Yuri N. Baranchikov. In Year Two 2 meetings were held on November 2001 in Krasnoyarsk and on April 2002 in Khabarovsk.

**3. Changes and Adjustments from Year Two Workplan - None**

**4. Tasks for Year Three**

There are four logical categories of tasks: Planning and Coordination, Site Selection, Field Monitoring, and Data Analysis and Decision-Support System<sup>2</sup>. The following tasks are broken down under these categories.

***Planning, Coordination and Public Awareness***

This task includes all activities related to maintaining a collaborative approach with our Russian partners in short- and long-term planning of each year’s work to achieve our goal. This includes participating in scheduled Working Group meetings in November and April, planning the next year’s work, attending Advisory Council meetings in June and December, organizing and holding technical workshops, and other forms of communication to keep Component 2 focused and able to take advantage of the annual results and accomplishments.

**i. Planning and Coordination.** The purpose of this task is to maintain a high level of coordination, cooperation, and collaboration between the Component 2 team and all other participating partners. This includes all forms of communication and reporting, such as Working Group meetings, seminars, workshops, telephone, fax, and email. It also includes but is not limited to monthly, quarterly, and annual reporting of results, and the development of an annual workplan.

**Technical Assistance:**

<b>International</b>	<b>Months</b>	<b>Russian</b>	<b>Months</b>
McFadden	3	Baranchikov	4
Sharov	3	Matusevich	1
Total	6	Total	5

**Other Resources Needed:** Communication costs, meeting facilities, international and domestic transportation, translation costs.

**Deliverables:** Annual workplan, Working Group meetings, seminars, reports including monthly, quarterly, and annual.

**Timetable:** Working group meetings are scheduled for November and April; annual workplan drafted in May for June Advisory Council meeting.

**Year Three Indicators and Targets:** Two Working Group Meeting minutes, one annual workplan, and eight monthly, three quarterly, and one annual report produced and delivered in a timely manner.

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<sup>2</sup> Data analysis consists of running the moth capture data through several geostatistical routines to understand the significance, if any, of the spatial distribution of the trap captures and what this means in terms of population density of the target insect. A Decision-Support System is a mathematical model that converts the geostatistical analysis of population density into a set of alternatives for the manager to consider in making a decision on forest management given the possibility of an outbreak. The logical categories provide the following: 1) a coherent plan for maximizing opportunities for collecting the best data in a given year; 2) applying techniques to define the best habitat and thereby reduce the total area that must be sampled; 3) actual collection of data in the field based on 1&2; and 4) analyzing the data to understand population behavior and to predict potential outbreaks.

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**ii. Public Awareness.** This task is to make the general public aware of the work being conducted in the Pest Monitoring Component. It will include newspaper releases, TV and radio interviews, brochures, scientific papers, presentations and posters. Deliverables will make the general public aware of progress and hopefully will result in protection of pheromone traps in the forests. By informing the public about the issue, the methodology will be readily accepted in Russia.

### Technical Assistance:

International	Months	Russian	Months
		Baranchikov	1
		Kondakov	2
		Yurchenko	2
		Consultants TBD	4
Total	0	Total	9

**Other Resources Needed:** Communication and publication production costs.

**Deliverables:** Fact sheets, posters, recommendations and brochures that describe component activities to reduce the threat of large outbreaks of forest insect pests.

**Timetable:** Continuous July 2002 through June 2003.

**Year Three Indicators and Targets:** Public awareness plan prepared and approved; 10 documents (fact sheets, brochure, recommendation hand-out) prepared, 100,000 disseminated in total.

### Site Selection

These activities allow specialists to understand more about the factors that influence habitat selection by forest insect pests and the use of technologies such as GIS that assist in reducing the total geographical area that must be monitored.

**iii. Delineate Regions of Siberian Forests.** Staff will develop maps delineating regions of Siberian forests near the Yenisey River and in Irkutskaya Oblast with the different forest protection activities. The territory of Primorski Krai will be divided into regions according to the risk and severity of defoliation caused by the main forest pest species. The areas will be classified into regions with different susceptibility to defoliation. The classification will be based on climate, vegetation and landscape characteristics and will take into account historical data on the frequency of outbreaks and level of defoliation. The purpose of this classification is to develop a basis for region-specific strategies in monitoring the abundance of insect defoliator populations. Maps of risk areas will contribute to better planning for placement of traps to detect moth population increases.

### Technical Assistance:

International	Months	Russian	Months
		Kondakov	3.5
		Cherkashin	3
		Consultants TBD	3
Total	0	Total	9.5



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**Other Resources Needed:** Communication, domestic travel, per diem, and map production costs.

**Deliverables:** Maps of forest protection activities in Krasnoyarski Krai and Irkutskaya Oblast; the map of Primorski Krai indicating areas with different potential risk of defoliation by insect forest pests.

**Timetable:** Maps completed by May 2003.

**Year Three Indicators and Targets:** Three completed maps.

**iv. Identify Habitat Quality.** The testing of the algorithm for delineating regions with various habitat qualities for the Siberian moth in selected leskhozoes will be accomplished. In the previous years, the project developed maps of habitat quality for the Siberian moth in three leskhozoes of Krasnoyarski Krai. This map is based on GIS analysis of historical defoliation maps and various landscape characteristics. The map will assist by showing high quality habitat thereby reducing labor that would otherwise be needed to sample insects in lower quality sites.

### Technical Assistance:

International	Months	Russian	Months
		Kondakov	1.5
		Cherkashin	1.5
		Consultants TBD	1
Total	0	Total	4

**Other Resources Needed:** Map production, map field testing costs, domestic travel.

**Deliverables:** Map of Siberian moth habitats in Motyginiski and Yeniseiski leskhozoes of Krasnoyarski Krai.

**Timetable:** Maps completed by November 2002.

**Year Three Indicators and Targets:** One map detailing moth habitats in the central part of Krasnoyarski Krai.

### Field Monitoring

This task includes all field data collection work.

**v. Compare Larval Density and Moth Captures by Traps with Different Pheromone Concentrations.** The relationship between moth counts in pheromone traps with different pheromone concentration and larval density in the tree crowns will be tested in a field experiment. The work will be done in Khabarovski Krai in the regions with a high outbreak population of Siberian moth and in Khakassiya with the consistently sparse population. The traps with different pheromone concentrations (ranging from 100 to 0.01 mkg/dispenser) will be placed in a line in ABCABC sequence with the distance of 500 m between traps. They will be placed in June and collected in September simultaneously with larvae sampling in the tree crowns. The results will allow the determination of the optimal concentration of pheromone. Under this concentration the moth captures should closely depict the larvae density in the adjacent stands.

### Technical Assistance:

International	Months	Russian	Months
		Consultants Institute of Forest	1
		Consultants FE Forestry Inst.	1
		Consultants TBD	1
Total	0	Total	3

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**Other Resources Needed:** Traps and pheromones, domestic travel, field personnel.

**Deliverables:** A report describing the numerical relationship between moth counts, larvae density, and pheromone concentration.

**Timetable:** Field work will be completed and analyzed by November 2002.

**Year Three Indicators and Targets:** The optimal concentration of pheromone in traps will be determined.

**vi. Siberian Moth Population Monitoring in Different Regions of Siberia.** Pheromone traps will be placed in sampling plots for monitoring larval density of the Siberian moth in Krasnoyarski Krai (50 traps), Irkutskaya (100 traps) and Tomskaya Oblasts (100 traps). Traps will be placed at the end of June and collected in September by the staff of the regional Centers for Forest Protection. The larvae density will be determined on the average of at least half of plots, which is sufficient to determine numerical relationships to male moth captures in traps.

**Technical Assistance:**

International	Months	Russian	Months
		Krasnoyarsk Center FP	1
		Tomsk Center FP	2
		Irkutsk Center FP	2
Total	0	Total	5

**Other Resources Needed:** Traps and pheromones, transportation of traps, domestic travel.

**Deliverables:** Development of the monitoring grid in Irkutskaya and Tomskaya Oblasts. New data on the numerical relationship between moth counts of the Siberian moth and larval density on trees.

**Timetable:** The traps will be set till June 30<sup>th</sup> and collected in September 2002.

**Year Three Indicators and Targets:** Report on data collected on larval and moth density; monitoring grid maintained in three regions of Siberia.

**vii. Siberian Moth Population Monitoring in Different Regions of the Russian Far East.** The Component 2 team will extend the pheromone technology to the Russian Far East. The Siberian moth populations in Khabarovski and Primorski Krai's will be monitored by traps. The staff of the local Centers for Forest Protection will put 100 traps on the sample plots in Khabarovski, 250 traps on the sample plots in Primorski Krai, and 20 traps in Sakhalin. The larvae density will be determined on part of the plots. Results will validate the concept that the methodology can be used in different regions of Siberia/Russian Far East without modification.

**Technical Assistance:**

International	Months	Russian	Months
		Primorski Center FP	2
		Khabarovsk Center FM	2
		Consultants Far East FM Institute	2
Total	0	Total	6

**Other Resources Needed:** Traps, pheromones, transportation of traps, domestic travel GPS Units.

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**Deliverables:** Data on the numerical relationship between moth counts of the Siberian moth and larval density on trees in the Far East.

**Timetable:** Work will be completed by November 2002.

**Year Three Indicators and Targets:** Report on data collected in Khabarovsk, Primoriye and Sakhalin on larval and moth density. Monitoring grid maintained in two regions of the Russian Far East.

**viii. Pheromone Monitoring of Siberian Moth and Gypsy Moth in Areas with Continuous Pest Distribution.** During Year Two, 250 sites were selected and 500 traps were placed in an area of approximately 150x250 km. This area is located to the west from the Yenisey River, from the line Krasnoyarsk-Achinsk in the north to the city of Abakan in the south. The northern half of the selected area belongs to Krasnoyarski Krai and the southern part to the Republic of Khakassiya. The sites form a semi-uniform grid with an inter trap distance of 10-15 km. The grid closely follows the system of roads. At this site, two pheromone traps are placed: one for Siberian moth, the other for gypsy moth. Trap placement and removal is performed with the help of local forest protection staff. Spatial location of each trap was recorded by GPS. In addition, vegetation characteristics were recorded. In August, traps will be removed, moths counted, and all specimens will be sent to the Sukachev Institute of Forest for quality control on identification. Moth captures should reflect densities of moths in different areas.

### Technical Assistance:

International	Months	Russian	Months
		Institute of Forest	2
		Consultants TBD	2
Total	0	Total	4

**Other Resources Needed:** GPS units; supplies (traps, pheromones); training of trappers in GPS methodology and in trap assembly; transportation of trappers and other field personnel to trap sites.

**Deliverables:** Data on moth counts in pheromone traps collected.

**Timetable:** Traps placed in Year Two will be collected by August 20, 2002. Traps to be placed in the field for sampling in Year Four will be completed by June 30, 2003.

**Year Three Indicators and Targets:** Report of data on Siberian and Gypsy Moths in Krasnoyarski Krai and Republic of Khakassiya.

### *Data Analysis and Decision-Support System*

This includes all activities on data management, analysis, summarization, modeling, and development of decision support systems.

**ix. Data Analysis and Decision-Support System.** Spatially referenced data on moth catches in pheromone traps are converted to GIS format and analyzed using geostatistics. As a result, the project can detect potential problem areas where interpolated moth counts are high. Sampling of larvae (or eggs masses for the gypsy moth) will be planned in areas with very high moth counts. Thresholds for placing intensive grids of traps and for larval sampling will be determined from additional work on the relationship between moth counts in traps and larval density in the next generation. Results obtained will be used for mapping potential risk of defoliation in forests.

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Results of data analysis are the focal point of all fieldwork to test the methodology. Results will be compared to hypotheses of methodology.

### Technical Assistance:

International	Months	Russian	Months
		Consultants Institute of Forest	4
Total	0	Total	4

**Other Resources Needed:** GIS software, geostatistical software.

**Deliverables:** Maps of moth counts in pheromone traps; interpolated maps of moth counts; maps of potential risk areas.

**Timetable:** Data analysis will be completed by December 2002.

**Year Three Indicators and Targets:** Report including all data entered and analyzed.

**x. Refine Database and Maintain Website.** A free-access database on the abundance of forest pest insects will be placed on the Component 2 website. Results on sampling of forest pest insects will be integrated in a regional database using Microsoft Access and will be available for access from the FOREST Project website. Maps on pest abundance and trends in population numbers in monitored regions will be added. In addition, the website will serve to document progress in achieving expected results across the entire Component.

### Technical Assistance:

International	Months	Russian	Months
		Baranchikov	0.5
		Consultants Institute of Forest	4
Total	0	Total	4.5

**Other Resources Needed:** GIS software, database software.

**Deliverables:** Web site with database access and maps.

**Timetable:** Continuous July 2002 – June 2003.

**Year Three Indicators and Targets:** Website operational and maintained with latest results available.

**xi. Inter-Regional Seminar on Forest Pest Monitoring.** Two inter-regional seminars on methods for monitoring forest pests will be conducted. The Component team will invite leaders of regional Centers for Forest Protection of Siberia and Far East, interested personnel working in forest protection, and leading scientists in the area of monitoring of forest pest insects. Using results and experience of Year Two, the project will transfer new methods of pest monitoring, data management and analysis, and methods for decision-making on pest control. Seminar proceedings will document current status of pest monitoring and will be published in Russian language for forest protection staff in Siberia to use. Annual seminars will be organized in cooperation with the World Bank.

### Technical Assistance:

International	Months	Russian	Months
		Baranchikov	.5
		Kondakov	1.5
		Consultants TBD	2
Total	0	Total	4

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**Other Resources Needed:** Partial travel compensation for participants, meeting expenses, proceedings publication and distribution.

**Deliverables:** Seminar organized, proceedings published.

**Timetable:** The seminars are planned for November 2002 and for April 2003.

**Year Three Indicators and Targets:** Two seminars organized, one proceedings published in Russian language and 500 distributed.

## FOREST Project Year Three Workplan

### Component 2 Year Three Tasks

Tasks	Activity Months	Persons/ Institutions Involved	Person Months	Travel	Other Inputs (meeting costs; equipment etc.)	Deliverables
i. Planning and Coordination	Jul-Jun	Max McFadden Alexei Sharov Y.Baranchikov	5 Russian 6 International	International and domestic travel	Meeting expenses	Reports on Working Group meetings, seminars and workshops. Annual Plans of Work and Budgets. Monthly, quarterly, and annual reports.
ii. Public Awareness	Jul-Jun	Institute of Forest, Consultants	9 Russian		Publication costs	Brochures, press releases, posters.
iii. Delineate Regions of Siberian Forests	May	Institute of Forest, Consultants	9.5 Russian	Domestic travel	Map Production	Maps of Krasnoyarsk and Irkutsk showing areas of potential risk of defoliation by Siberian and gypsy moths.
iv. Identify Habitat Quality	May	Institute of Forest, Consultants	4 Russian	Local transportation	Map production	Map of Siberian Moth habitats in Ileskhoz
v. Compare Larval Density and Moth Captures by Traps with Different Pheromone Concentrations	Aug	Institute of Forest, Far East Forestry Research Institute	3 Russian	Local transportation	Traps, pheromones	Report describing the numerical the relationship between moth counts and habitat quality.
vi. Siberian Moth Population Monitoring in Different Regions of Siberia	Nov	Centers of Forest Protection: Krasnoyarsk, Tomsk, Irkutsk	5 Russian	Local transportation	Traps, pheromones	Data on the numerical relationship between moth and larval counts in Krasnoyarsk.
vii. Siberian Moth Population Monitoring in Different Regions of RFE	September	Centers of Forest Protection: Vladivostok, Khabarovsk, FEF Research Institute	6 Russian	Local transportation	Traps, pheromones, GPS units.	Data on the numerical relationship between moth counts of the Siberian moth and larval density.

**FOREST Project Year Three Workplan**

**Component 2 Year Three Tasks Continued**

<b>Tasks</b>	<b>Activity Months</b>	<b>Persons/ Institutions Involved</b>	<b>Person Months</b>	<b>Travel</b>	<b>Other Inputs (meeting costs; equipment etc.)</b>	<b>Deliverables</b>
viii. Pheromone Monitoring Siberian Moth and Gypsy Moth in Area with Continuous Pest Distribution	Sept	Institute of Forest, Consultants	4 Russian	Local transportation	Traps, pheromones, GPS units.	Report on the data of moths in traps
ix. Data Analysis and Decision Support Systems	Dec	Institute of Forest, Consultants	4 Russian		GIS software, geostatistical software	Maps of moth counts in traps; maps of potential risk areas
x. Refine and Maintain Website	Jul-Jun	Webmaster, Consultants	4.5 Russian		Software	Data access via the Web
xi. Inter-Regional Seminar on Forest Pest Monitoring	Dec May	Institute of Forest, Consultants	4 Russian	Domestic travel	Travel for participants, publication of proceedings	Proceedings of seminar

## **C. Component 3: Non-Timber Forest Products and Secondary Wood Processing**

The goal of this component is to increase the value of forest products as a way to improve sustained economic development and encourage sustainable forest management. The component focuses on two sectors—non-timber forest products and secondary wood processing—and works through associations.<sup>3</sup> FOREST strengthens forest sector associations to represent and serve their members, and helps their members increase the value of their products. With technical assistance and training, FOREST assists companies to increase efficiency, identify markets, and improve quality of their products.

### **1. Background and Proposed Approach and Priorities**

A significant amount of Russia’s timber products are exported in a raw form. This not only promotes increased harvesting, but it also hurts the Russian economy. Jobs are lost to companies in other countries that process and sell Russia’s raw materials. Siberia and the Russia Far East have the potential of increasing employment and earnings through increasing value-added processing and sustainable forest management.

This component works through associations and assists the businesses to add value to their products. FOREST can reach a greater number of beneficiaries by working with wood and non-timber forest products associations rather than working with individual companies. Associations ensure sustainability as they represent a practical depository for skills, knowledge, and linkages.

This component has a three-tiered approach:

- Strengthen associations
- Strengthen association member businesses
- Provide information and assistance that can benefit the entire sector

### **2. Summary of Year Two Results**

The strategy for Years One and Two were to focus on working with associations, surveying members, and identifying their problems. This was done in conjunction with examining the products and assessing the potential of export. FOREST has worked with and supported five associations (two wood processing and three NTFP associations) and has completed the domestic and international portion of the market studies.

#### **Associations**

Supporting Associations has been well received (something the industry wants and needs) and lays the groundwork for long-term changes. The first two years of the project focused on developing association strategic plans, holding annual meetings, collecting data on association members, and providing direct support as requested. For example, in Year Two training in advocacy was conducted. Year Three will include identifying at least one more association to receive support, and focusing on membership support and financial sustainability. Where

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<sup>3</sup> The FOREST Project Year One workplan proposed a target to increase the value of products harvested per hectare by 5% in the areas worked. This indicator is currently under discussion in terms of feasibility and appropriateness for achievement of the overall Project objectives. While we have retained it for now, Year Three will begin with an evaluation and discussion of indicators that may be more appropriate, drawing on USAID Strategic Objectives as well as FOREST Project and Winrock International indicators.



appropriate, FOREST will draw upon experts from existing association partners to support the new associations.

### **Strengthening Businesses**

The forest sector has the potential of boosting the economic development of Siberia and the Russia Far East. FOREST has focused on supporting the sector by 1) assisting companies as per their request and 2) systematically identifying companies with the greatest potential of adding value to their products (by retooling or adding equipment). The approach has been to:

- Assess members (what they produce, what their problems are, etc) and compiling information in a database. Forty-seven companies have been offered the consulting services of FOREST. Twenty-five have accepted the offer.
- Conduct a market studies. The initial market study conducted by local consultants summarized the current products/species used (throughout all five oblasts/krais where FOREST works). International consultants assessed the current and potential capacity and have identified key products that have the potential for export.

With a clear understanding of the regions' production, quality, quantity, and potential, the second phase of the market studies will identify key markets for value-added products.

Based on the initial findings, FOREST can best support **secondary wood processing** by focusing on:

1. improving local capacity in managing and maintaining equipment – especially saws;
2. working with exporters of raw logs to either cut and dry their own wood or sell it to local processors;
3. developing business plans for companies and helping them secure financing;
4. exploring new product production by developing feasibility plans;
5. supporting key companies willing to retool or increase value-added processing based on the findings for export based on international market demand;
6. linking companies with potential to interested buyers of Russian wood products;
7. targeting key companies with the capacity to export products to target countries by attending and displaying products at international trade shows; and
8. improving companies' basic management skills.

Based on the initial findings, FOREST can best support **non-timber forest product processing** by focusing on:

1. reviewing local market studies to understand key products of the area;
2. completing the international market study by identifying the top five (both volume and economic value) NTF products per region that have the potential for greater marketing potential;
3. identifying key markets for the top products (identify if any have a market in the US/Europe and if the value-added processing for Asia bound products could be done in Russia);
4. strengthening the value-added processing of the key products – in many cases it may be as simple as grading the products locally;
5. ensuring production quality and quantity for export or domestic markets, which requires formation of cooperatives to give producers strengths in numbers; and
6. exploring new ways to process or package key products such as pine nuts, mushrooms, and ferns which could be sold both domestically and internationally.

**3. Changes or Adjustments from Year Two Workplan**

**Association Twinning**

Due to the highly competitive nature of the secondary wood processing sector in the United States, associations have demonstrated limited interest in teaming with Russian partners whom they see as potential competitors --the U.S. industry is currently losing business to the Chinese. FOREST will continue to look for partners for the associations, but most likely it will be trade associations rather than industry associations.

**Support Women and Minority Owned Businesses in the Forest Products Industry**

A scope of work was developed to assess how FOREST can ensure that women equally benefit from the project. Initially an U.S. expert or intern was sought. However the decision was made to switch to from an international consultant to a Russia or NIS consultant. Candidates will be reviewed in July/August of 2002.

**4. Tasks for Year Three**

In Year Three FOREST will continue to support existing associations and choose at least one new association partner. With associations that have been partners for one or two years already, the activities will focus on making the associations self-sustaining, and increase their ability to provide services to their members (business services, policy advocacy, etc.).

FOREST will also continue to support development of the forest products industry overall in the region, through market studies, increased support to women- and minority-owned businesses, and a sector-based workshop to bring together the private businesses, government and possibly finance institutions to look at working together to reach the potential of developing the forest sector.

The primary focus will be to provide effective technical and business support services to companies -- via the associations and directly, and through both training workshops and individual consultations. Through technical assistance, training, and collaboration with other programs, FOREST will increase businesses' efficiency, waste reduction, product quality, export contacts, ability to write writing business plans and access financing (loans and non-bank financial institutions). FOREST will build on the successful activities from Years One and Two such as sending delegations to international trade shows and conducting hands-on training in practical areas such as saw filing.

***Tasks to Support Associations***

**i. Identify Associations to Work with in Year Three.** Based on the activities of the first two years, FOREST staff will select at least one new association to work with in Year Three, bringing the total number of FOREST partner associations to six. The project will request applications from associations, evaluate the applications, and select the candidate that most closely fits the criteria established in Year One, with emphasis placed on demonstrated sustainability.

**Technical Assistance:**

<b>International</b>	<b>Months</b>	<b>Russian</b>	<b>Months</b>
Martin (Home Office Coordinator)	.5	Volkova	1
Total	.5	Total	1

## FOREST Project Year Three Workplan

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**Other Resources Needed:** Domestic travel and communication.

**Deliverables:** At least one association selected, MOUs signed.

**Timetable:** Associations identified by August 30, 2002, MOU signed by September 2002.

**Year Three Indicators and Targets:** Total of six associations will be identified, six MOUs signed.

**ii. Update Directories and Databases of Association Members, and Create Websites for Year Three Partner Associations.** Directories and databases of the association members will be developed for the new associations and updated for existing association partners. This database will allow users access information in response to queries (e.g., by name, location, product, capacity, species, technology, etc.) either through the FOREST Project website or by individual electronic copies. A baseline survey that was developed in Years One and Two will be adapted to obtain information needed for the establishment and refinement of the association databases. Specifically, the survey will collect up-to-date information on organizational capacity, performance, product lines, technology, and baseline data. At the same time, additional information will be sought about problems and needs – both those experienced by individual organizations and those that affect the entire sector. Directories and databases will be accessible through websites created for and maintained by association partners.

### Technical Assistance:

International	Months	Russian	Months
Martin	.5	Dudko	1.5
		Lazarenko	1.5
		Milyutina	1
		Consultants TBD	4
Total	.5	Total	8

**Other Resources Needed:** Survey enumerators; database and website development software.

**Deliverables:** Up-to-date databases in hard and electronic formats for each association and websites created for Year Three partners.

**Timetable:** Completed database for each association on website by February 2003, 150 electronic and hard copies of databases produced and distributed to members by April 2003.

**Year Three Indicators and Targets:** Completion of a total of six association databases, assessment of at least three problems with feasible solutions, 150 electronic and hard copies of databases distributed to association members, and two new websites created.

**iii. Facilitation of Annual Association Meetings.** The FOREST Project will help facilitate annual association meetings with support leveraged from local government, industry, and other donor-supported projects. The annual meetings will provide a participatory forum to discuss association priorities and to initiate development of short-, medium-, and long-term strategic plans to become self-sufficient, sustainable organizations. In addition, associations' problem and needs assessment will be assessed. The association members will also be encouraged to invite non-members to at least some of the annual meeting sessions to increase awareness and understanding of the purpose of the association, its objectives, and benefits accruing to its members. An annual report covering the discussion content and decisions taken at the meeting will be prepared and distributed to all members. This task will strengthen the associations, help assess the problems that the association members are facing, and be a key step in building the networks of the associations and their members.

### Technical Assistance:

## FOREST Project Year Three Workplan

International	Months	Russian	Months
Consultants TBD	1	Volkova	2.5
Martin	1	Milyutina	2.5
		Lazarenko	.5
		Consultants TBD	4
Total	2	Total	9.5

**Other Resources Needed:** Funds for travel, per diem, meeting facilities, annual report editing and publication.

**Deliverables:** Annual meetings convened, annual reports produced and distributed.

**Timetable:** Meetings convened by March 2003; annual reports produced and distributed by May 2003.

**Year Three Indicators and Targets:** Six association meetings held, six annual reports produced and distributed to members. Specific needs of members identified for each association.

**iv. Development of Updated One-Year Strategic Plans.** The FOREST Project helps associations develop strategic plans that will ensure the organizations' ability to provide services and to be self-sustaining. The association members will receive training in strategic planning development. The strategic plans will identify organizational objectives, such as increased capacity to offer services, increased membership, and increased revenues from membership fees, eligibility for grants, and other sources of income. Draft strategic plans will be distributed to association members for review and comment in preparation for discussion at annual association meetings for creation of final updated strategic plans.

### Technical Assistance:

International	Months	Russian	Months
Consultant TBD	.5	Volkova	1
Martin	.5	Milyutina	.5
		Lazarenko	.5
		Dudko	3
		Consultant TBD	1
Total	1	Total	6

**Other Resources Needed:** Preparation of training materials, development of training of trainer modules, training facility, per diem, travel.

**Deliverable:** Strategic plans developed.

**Timetable:** Draft or refined strategic plans completed by January 2003.

**Year Three Indicators and Targets:** Total of four updated strategic plans and two new strategic plans completed. Specific needs of associations identified.

**v. Support Associations.** During the first two years of the project, several challenges were identified that association partners currently face. These challenges such as association income and increased services to members will be addressed during Year Three. In addition, Year One and Two Associations will be evaluated based on the prior support provided. FOREST will dedicate technical support and resources for institutional capacity building for six partner associations.

## FOREST Project Year Three Workplan

### Technical Assistance:

International	Months	Russian	Months
Martin	2	Volkova	2
		Milyutina	1
		Consultant TBD	1.5
Total	2	Total	4.5

**Other Resources Needed:** Travel, per diem, computer equipment, training, communication.

**Deliverables:** Evaluation association support to date, reports from consultants with specific recommendations on the specific issues identified.

**Timetable:** Associations baseline survey in August of 2002 for data on current income, membership, and amount of services, six associations equipped with computers and basic telecommunication, April 2003 follow-up survey of associations.

**Year Three Indicators and Targets:** Associations will increase membership by an average of 15% during the year, associations will increase income by an average of 5% during the year, and associations will increase services by an average of 10% during the year.

### *Tasks to Support Association Members*

**vi. Support Association Members.** During the first two years of the project, several obstacles facing association member companies were identified. These obstacles will be addressed in two ways: common problems will be addressed through training seminars; and individual problems will be addressed through individual expert consultations. Specific tasks that will receive high priority include technical processing and equipment improvement, product marketing and packaging, assisting in writing international business plans, and assistance linking companies with strong business plans and management to financing. The FOREST Project will use both paid consultants and volunteers in this task, in a combination of seminar training and individual technical advice, and will coordinate with and link companies to other organizations that provide business assistance in the region. Project staff will work closely with the associations' member companies to monitor the results of the training for practical application.

### Technical Assistance:

International	Months	Russian	Months
Consultants TBD	5	Dudko	5.5
Martin	4.5	Lazarenko	5
		Milyutina	2
		Consultant TBD	12
Total	9.5	Total	24.5

**Other Resources Needed:** International travel and training costs.

**Deliverables:** Training program established for association members in at least three different topics.

**Timetable:** Continuous from July 2002 through June 2003.

**Year Three Indicators and Targets:** Ten association member companies trained in writing and possess international standard business plans; two companies securing finance; 10 companies with new sales contracts for processed forest products; 10 association members more efficient in processing or using more effective marketing techniques.

## FOREST Project Year Three Workplan

**vii. Delegation to International Trade Shows (Non-Timber Forest Products and Secondary Wood Products).** International trade shows are key forums for producers to sell their products on the international market. During the first two years, the FOREST Project sent individuals to learn about different products on the international market and quality standards for exporting, and to display association members' products. Since this activity has proven to increase networking among associations and businesses, heighten awareness of Russian products on the international market, and provide valuable insight to international standard of quality, FOREST will send association members again in Year Three. Specifically, this task will support associations and their members to prepare for and make linkages to international markets.

### Technical Assistance:

International	Months	Russian	Months
Uptagrafft	.5	Lazarenko	3.50
Pagan	.5	Volkova	3.25
Martin	1	Milyutina	2.50
		Consultant TBD	2
TBD Consultant	1	Interpreters	2
Total	3	Total	13.25

**Other Resources Needed:** International travel costs for delegation, product preparation, and trade show booth registration.

**Deliverables:** Participation in international trade show.

**Timetable:** Schedule depends on international trade show exhibits.

**Year Three Indicators and Targets:** Twenty-four association members attending international trade shows. Five companies purchasing equipment or selling their products based on visiting the trade show.

### *Tasks That Support the Forest Products Industry*

**viii. Market Information Studies.** During the second year, targeted market studies focusing on selected NTFPs and secondary wood products were conducted to understand domestic and international demand for products and competition that the Russian Far East and Siberia face from other regions and countries. Additional NTFP international may be conducted based on the output of the findings of the first phase. In addition, if preliminary assessment shows Moscow and Europe to be potential markets for Siberian and Russia Far East Products, then a more in-depth study of this area will be done. The focus of market studies will be defined in consultation with partner associations and their members. Special attention will be given to niche and high value markets. Findings will be published in reports and also compiled into a database. This task will provide information key to the producers to identify potential products.

### Technical Assistance:

International	Months	Russian	Months
Herbs Research Foundation	1	Consultant TBD	2
Martin	1	Lazarenko	.5
Wood Resources International	1	Volkova	1.75
		Milyutina	.5
Total	3	Total	4.75

## FOREST Project Year Three Workplan

**Other Resources Needed:** Travel and per diem, Internet research.

**Deliverable:** Reports on domestic and international markets; database with contact information and specifications of domestic and international buyers.

**Timetable:** Report completed September 2002.

**Year Three Indicators and Targets:** Ten companies linked with markets for their products. Information from reports available on the web.

**ix. Support Women and Minority Owned Businesses in the Forest Products Industry.** The FOREST Project is committed to support all sectors of society and during Year Three, will conduct a study on the current and potential role of women and minorities in profitable aspects of the forest products industry (wood and non-timber). This study will lead to recommendations on how the project can address these under-represented groups as beneficiaries of project activities. Suggestions may include: encouraging businesses to join existing associations, have associations provide specific assistance and training to women and minority owned businesses, form cooperatives, or form specific associations to address the needs. This task will support the objective of increasing value-added processing, and supports the FOREST Project's focus on gender.

**Technical Assistance:**

International	Months	Russian	Months
Martin	.5	Dudko	2
		Milyutina	2
		Consultant TBD	1.5
Total	.5	Total	5.5

**Other Resources Needed:** International and domestic travel.

**Deliverable:** A report with recommendations how FOREST can increase women and minorities as beneficiaries.

**Timetable:** Survey completed by October 2002, training continuous.

**Year Three Indicators and Targets:** Baseline survey, one women and/or minority owned business identified to receive training, 10 women and/or minorities trained, and 20% of FOREST beneficiaries to be women.

**x. Sector Based Workshops.** The problems with the non-timber forest products and secondary wood processing will only be solved when all players – the government, training institutions, associations, and businesses – work together. The conventional view is that Russian companies are in competition with each other, when in fact the competition is foreign processors. If the different players in the sector can work together to support each other, then Siberia and the Russia Far East may be able to out-compete the foreign processors, and bring jobs and money to the region. FOREST proposes to conduct a workshop that will bring together the different players, including international consultants, businesses, associations and government officials, to promote exchanges and possible solutions/action plans for the region's problems.

**Technical Assistance:**

International	Months	Russian	Months
Martin	.5	Policy consultant	1
Wood Resources International	.5	Volkova	.5
Herbs Research Foundation	.5	Lazarenko	.5
		Consultant Facilitator	3
Total	1.5	Total	5

## FOREST Project Year Three Workplan

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**Other Resources Needed:** International and domestic travel, meeting costs.

**Deliverable:** Workshop proceedings including commitments/action plans from the various subsectors (government, associations, businesses).

**Timetable:** SWP and NTFP workshop conducted by April 2003.

**Year Three Indicators and Targets:** Two workshops, five problems identified with mutual agreement on practical solution/action plan that will be implemented.



**FOREST Project Year Three Workplan**

**Component 3 Year Three Tasks**

<b>Tasks</b>	<b>Activity Months</b>	<b>Persons/Institutions Involved</b>	<b>Person Months</b>	<b>Travel</b>	<b>Other expenses (meetings, facilities, etc.)</b>	<b>Deliverables</b>
i. Identify Associations to Work with in Year Three	August – September 2002	Volkova, Martin	1 Russian .5 international	Domestic travel	Communication costs	Total of 6 associations will be identified, 6 MOUs signed
ii. Update Directories and Databases of Association Members	July 2002- April 2003	Lazarenko Milyutina Consultants TBD Dudko Martin	8 Russian .5 international	Domestic travel	Survey enumerators; database and website development software	Completion of a total of 6 association databases including at least 150 entries, completion of association problem and need assessment identifying at least 3 problems with feasible solutions, 150 electronic and hard copies of databases distributed to association members. Two Web sites created.
iii. Facilitation of Annual Association Meetings	Dec 2002- May 2003	Volkova, Lazarenko Consultants TBD Milyutina, International consultants TBD, Martin	9.5 Russian, 2 international	Domestic and international travel	Meeting facilities, annual report editing and publication	Six association meeting held, six annual reports produced and distributed to members
iv. Development of Updated One-Year Strategic Plans	July 2002 -January 2003	Milyutina, Lazarenko, Dudko Consultant TBD International consultants TBD, Martin	6 Russian, 1 international	Trips both domestic and abroad	Preparation of training materials, development of training of trainer modules, training facility	Total of 4 updated strategic plans + 2 new strategic plans completed.

**FOREST Project Year Three Workplan**

<b>Tasks</b>	<b>Activity Months</b>	<b>Persons/Institutions Involved</b>	<b>Person-months</b>	<b>Travel</b>	<b>Other expenses (meetings, facilities, etc.)</b>	<b>Deliverables</b>
v. Support Association Tasks	August 2002 – April 2003	Volkova Milyutina Consultants TBD Martin	4.5 Russian 2 international	Trips both domestic and abroad	Training, communication	Associations will increase membership by an average of 15% during the year, associations will increase income by an average of 5% during the year, and associations will increase service by an average of 10% during the year.
vi. Support Association Members	July 2002 – June 2003	Lazarenko Milyutina Consultant TBD Dudko International consultants TBD, Martin	24.5 Russian, 9.5 international	Trips both domestic and abroad	Training costs	10 association member companies trained in writing and possesses international standard business plans; 2-3 companies securing finance; 10 companies with new sales contracts for processed forest products; 10 association members more efficient in processing or using more effective marketing techniques

**FOREST Project Year Three Workplan**

<b>Tasks</b>	<b>Months</b>	<b>Persons/Institutions Involved</b>	<b>Person-months</b>	<b>Travel</b>	<b>Other expenses (meetings, facilities, etc.)</b>	<b>Deliverables</b>
vii. Delegation to International Trade Shows (Non-Timber Forest Products and Secondary Wood Products)	Schedule depends in international trade shows exhibits	Pagan Uptagraft Martin International consultant TBD Lazarenko Volkova Milyutina Consultants TBD Interpreters Martin	13.25 Russian, 3 international	Trips both domestic and abroad	Costs for delegation, product preparation and trade show booth registration	24 association members attending international trade shows, 5 companies purchasing equipment or selling their products based on visiting the trade show
viii. Market Information Studies	September 2002	Herbs Research Foundation Consultant TBD Wood Resources International Lazarenko Volkova Milyutina Dudko	4.75 Russian, 3 international	Intl and domestic trips	Internet research	NTFP study completed and 150 reports disseminated to association members
ix. Support Women and Minority Owned Business in the Forest Products Industry	October 2002	Dudko Milyutina Consultant TBD Martin	5.5 Russian .5 international	Domestic trips		Baseline survey, 1 woman and/or minority owned business identified to receive training, 10 women and/or minorities trained. 20% of FOREST beneficiaries are women.

**FOREST Project Year Three Workplan**

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<b>Tasks</b>	<b>Months</b>	<b>Persons/Institutions Involved</b>	<b>Person-months</b>	<b>Travel</b>	<b>Other expenses (meetings, facilities, etc.)</b>	<b>Deliverables</b>
x. Sector Based Workshops	April 2003	Wood Resource International Herbs Research Foundation Policy consultant Volkova Lazarenko Consultant Facilitator Martin	5 Russian, 1.5 international	Intl and domestic trips	Meeting costs	2 workshops, 5 problems identified with mutual agreement on practical solution/action plan that will be implemented

## **D. Component 4: Biomass Energy**

### **1. Background and Proposed Approaches and Priorities**

The objective of this component is to promote environmentally friendly energy sources through the conversion of wood wastes. Biomass energy is a potential substitute for environmentally hazardous energy sources, such as coal and diesel fuel. Other benefits of using biomass energy include providing energy to those communities and municipalities outside the power grid, diminishing forest level fuel load which helps prevent forest fires, and bringing economic benefits to areas through increased income and community development.

### **2. Summary of Year Two Results**

A significant amount of work has been done in Year Two. Site visits and interviews were conducted and analysis was completed to assess the market potential of biomass energy in the five FOREST Project regions. Through these activities, information was collected on potential biomass sources, as well as on available technologies and key institutions interested in biomass energy in the region. The results of the analysis show conclusively that biomass energy production is a viable alternative in Siberia and the Russia Far East.

Last fall, a workshop was held in Khabarovsk, which brought Russian forest industry leaders, key experts, and regional authorities together. Experts of the forestry industry and fuel and energy complex presented reports on the potential use of biomass energy in Siberia and the Far East, which sparked discussions on the results of the FOREST Project biomass energy assessment. Both the workshop proceedings and the biomass energy market assessment will be published and available in Russian and English.

The workshop also identified three “first-tier” industries that were prepared to take next steps in building cogeneration and/or dry kiln and boiler projects. These companies are JSC “Terneyles” in Primorski Krai, LLC “Igirma-Tairiku” in Irkutskaya Oblast, and JSC “Eniseyles” in Krasnoyarski Krai. In conjunction with the FOREST Project, Russian engineering companies have developed feasibility and investment studies for each of the companies listed above. Second tier industries interested in biomass energy were also identified, but will need training and technical support to develop business plans of sufficient quality to be attractive to investors.

In June 2002, the FOREST Project brought together companies and potential sources of financing to discuss investment in the construction of dry kilns and/or co-generation power plants using biomass energy. In addition, the workshop brought together interested organizations to share their experiences of three first tier companies in developing investment studies with financial and consulting assistance obtained from the FOREST Project.

#### Russian Partners

FOREST closely partners with local public organizations, municipal utilities, engineering companies, engineers, research workers, manufacturers, financial institutions and other organizations to identify the options for using biomass energy in the region.

#### Formation of the Working Group

A Biomass Component Working Group will be formed after the June 2002 financial workshop. Discussions are continuing with companies and regional representatives as to the composition of the Working Group. Current plans are to invite two representatives – one from the forest industry and one from the krai/oblast administration - from each of the four regions where the component

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## FOREST Project Year Three Workplan

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is currently working (Krasnoyarski, Khabarovski, Primorski Krai and Irkutskaya Oblast). If the Component extends its activities to Sakhalin, two more representatives from this region will be invited to participate in the Working Group. The Working Group will hold its first meeting in October 2002.

### **3. Changes and Adjustments from the Year Two Workplan**

In order for the Biomass Component Team to focus on putting together the financial workshop and to ensure that the identified companies meet their deadline to complete their investment studies, the study tour to bring representatives from companies, engineering organizations, and universities from Russia to the USA to visit biomass energy facilities has been delayed.

### **4. Tasks for Year Three**

Collaboration with companies in implementing biomass energy projects and with their respective design firms demonstrate that there is a need to train experts in engineering and in operating biomass energy systems. Whereas forestry and energy industries have had a great deal of experience developing and operating different kinds of energy systems, experience in biomass energy systems is limited to a few installations in the region. FOREST plans to solicit bids from additional interested second tier organizations interested in participating in the development of biomass energy investment studies to be financed in collaboration with the FOREST Project. Representatives from some of the selected companies will be invited to the USA to participate in a study tour of biomass energy facilities.

Based on the results of Year Two and the need for continuation, focus will be on the following activities:

- Support first tier companies
- Support second tier companies
- Increase interest among mid- and small-scale companies in biomass energy
- Provide training to increase expertise in engineering and operating biomass energy facilities in the region
- Acquisition of data

#### ***Support First Tier Companies***

First tier companies have been identified because they show a high level of interest in establishing an environmentally friendly biomass energy plant coupled with financial and technical resources and ability to make this now theoretical energy practice for Russia a reality.

**i. Development of Final Engineering Plans Including Bid Documentation and Construction Site Plan.** The FOREST Project will solicit the expertise of an international consultant specializing in engineering and the construction of biomass-fired small-scale cogeneration plants. The expert will provide technical assistance and guidance in the creation of the final engineering plans along with local experts. The engineering plans will also include a construction plan, budget analysis, and procurement guidelines.

## FOREST Project Year Three Workplan

### Technical Assistance:

International	Months	Russian	Months
Miles	.5	Khodos	1
Kadyszewski	.5	Consultant TBD	1
Consultant TBD	1.5		
Total	2.5	Total	2

**Other Resources Needed:** Meeting expenses, domestic and international travel to project sites, per diem, etc.

**Deliverables:** Construction site plans with budget analyses and procurement guidelines.

**Timetable:** Continuous from August 2002 through June 2003.

**Year Three Indicators and Targets:** Two fast track companies will be provided assistance with final engineering plans including construction site plans, budget analysis, and bid documents.

**ii. Construction, Commissioning and Start-up of the Biomass Facility.** During the construction and commissioning of the biomass small-scale cogeneration plants, consultants with expertise in the construction and operation of such facilities will be needed to assist with acceptance tests and preparation of operation and maintenance procedures, as such plants are pilot projects for Siberia and the Far East.

### Technical Assistance:

International	Months	Russian	Months
Kadyszewski	.5	Khodos	1
Miles	.5	Shkonda	1
		Paramonova	2.5
Consultant TBD	1	Consultant TBD	1
Total	2	Total	5.5

**Other Resources Needed:** Meeting expenses, international and domestic travel, per diem, training expenses, etc.

**Deliverables:** Recommendation report constructing the biomass facilities, operation manual for such small-scale cogeneration plant.

**Timetable:** November 2002-April 2004 (this will continue into Year Four).

**Year Three Indicators and Targets:** Two recommendation reports and one operation manual.

### *Support Second Tier Companies*

**iii. Identify Second Tier Companies to Support.** Interest of companies from Year Two will be considered as well as requesting additional companies that demonstrate interest in constructing biomass energy facilities. FOREST staff will visit the most promising companies to conduct a preliminary analysis of their financial and technical state, estimation of the demand for biomass-fired energy facilities in the region, and sign Memorandums of Understanding (MOUs) with companies and design firms.

## FOREST Project Year Three Workplan

### Technical Assistance:

International	Months	Russian	Months
Huang	.25	Khodos	3
Miles	.5	Shkonda	2.5
		Paramonova	2
Vartanov	.5	Consultant TBD	.5
Total	1.25	Total	8

**Other Resources Needed:** Meeting expenses, international and domestic travel, per diem, etc.

**Deliverables:** Identified second tier companies, sign Memorandum of Understanding, identify potential design firms.

**Timetable:** Continuous from July 2002 – June 2003.

**Year Three Indicators and Targets:** Three second tier companies identified and MOU signed, three design firms contracted.

**iv. Development of Investment Study.** The development of a full investment study according to international standards needs to be prepared after the design firms prepare technical and financial evaluation of the company. This is for securing funding to finance the construction of the biomass facility. The international consultant will provide training and financial models to Russian consultants while working in Russia.

### Technical Assistance:

International	Months	Russian	Months
Consultants TBD	2	Khodos	1
Kadyszewski	.25	Paramonova	.5
		Shkonda	4
		Ivanchikov	2
		Consultant TBD	2
Total	2.25	Total	9.5

**Other Resources Needed:** International and domestic travel, per diem, translators, meeting expenses, design firms, etc.

**Deliverables:** Completed investment studies available to be presented to potential investors.

**Timetable:** Continuous July 2002 through June 2003.

**Year Three Indicators and Targets:** Three new investment studies completed.

**v. Workshop on Biomass Facility Construction Financing Possibilities.** To attract financing, the second tier companies will present their investment studies at this workshop where potential investors learn about investment opportunities. This is one avenue for companies to obtain secure financing for the development/construction of the biomass facility. The workshop will include one day of training for Russian financing institutions on the evaluation of business plans for biomass energy investments.

### Technical Assistance:

International	Months	Russian	Months
Vartanov	1	Shkonda	2.25
Kadyszewski	.25	Ivanchikov	1.5
Huang	.25	Khodos	1
Consultant TBD	1	Paramonova	1
Total	2.5	Total	5.75



## FOREST Project Year Three Workplan

**Other Resources Needed:** International and domestic travel, per diem, meeting expenses, translation, editing and duplication of investment studies.

**Deliverables:** Workshop with investors and second tier companies in attendance.

**Timetable:** Workshop May 2003.

**Year Three Indicators and Targets:** One workshop conducted, at least one investor identified for a second tier company.

### *Increase Interest Among Mid- and Small-Scale Companies*

**vi. Dissemination of Information on the Potential to Use Biomass Energy.** Potential partners will be informed of the successes of first tier and second-tier projects via different means of communication – the Internet, mass media, and through members of the Working Group and members of the Advisory Council. Team members and their partners will take part in conferences held in Russia on non-conventional and renewable energy resources, energy savings, and other issues related to biomass energy use.

#### **Technical Assistance:**

International	Months	Russian	Months
Miles	.25	Khodos	1
Vartanov	.25	Shkonda	.5
Huang	.25	Paramonova	2
Total	.75	Total	3.5

**Other Resources Needed:** Domestic travel, per diem, registration fees, communication, publications, internet capabilities.

**Deliverables:** Working Group meeting, list of potential partners, conference attendance.

**Timetable:** Continuous July 2002 – June 2003 based upon conference schedule, Working Group meeting in October 2002.

**Year Three Indicators and Targets:** Twenty potential partners attending conference.

**vii. Data Collection.** Data will be collected from potential partner companies including basic requirements for biomass facilities. Data collection will be via the Internet, or received as hard or electronic copies. In addition, this data will be collected and discussed through meetings specifically addressing the criteria (adequate capacity of biomass facilities, availability of biomass resources, financial stability, etc.) for the possible consideration of a FOREST Project second-tier company partner for the construction of biomass energy facilities.

#### **Technical Assistance:**

International	Months	Russian	Months
Miles	.5	Khodos	.5
Vartanov	.5	Shkonda	.5
		Paramonova	2.5
Total	1	Total	3.5

**Other Resources Needed:** Communication expenses, software, internet access.

**Deliverables:** List of potential partners. Biomass energy project summaries modeled after the International Energy Agency (IEA) project profiles.

**Timetable:** The list of partners completed by September 2002, collection will be continuous from October 2002 through June 2003.

**Year Three Indicators and Targets:** Data will be collected from 15 possible new partners.

***Training to Increase Expertise***

**viii. Provide Training to Increase Expertise in Engineering and in Operating Biomass Energy Facilities in the Region.** In the course of working with “fast track” and second tier companies and with design firms, the Biomass team determined that there is a need to provide training to increase expertise in engineering and in operating biomass energy facilities in the region. Currently, there are few biomass energy facilities in Russia. The team plans to train representatives of companies and regional administrators through organizing visits to biomass energy facilities abroad.

**Technical Assistance:**

<b>International</b>	<b>Months</b>	<b>Russian</b>	<b>Months</b>
Huang	1.5	Khodos	1.5
Consultant TBD	.5	Shkonda	.5
Kadyszewski	.25	Paramonova	.5
Total	2.25		2.5

**Other Resources Needed:** International and domestic travel, per diem, interpreters, meeting expenses, etc.

**Deliverables:** Experts certified in the field of engineering and operation of biomass energy facilities.

**Timetable:** July/August 2002 and January/February 2003.

**Year Three Indicators and Targets:** Ten certified experts.

***Data Acquisition***

**ix. Data Acquisition.** Russian institutes have acquired a sufficient amount of data related to biomass, location of forestry mills and remote communities and are continuing to build experience in this field. This scope of work will further promote data acquisition, needs assessments, and the systemization of this information.

**Technical Assistance:**

<b>International</b>	<b>Months</b>	<b>Russian</b>	<b>Months</b>
		Khodos	1
Huang	1	Shkonda	1
Consultant TBD	2	Paramonova	1
		Consultant TBD	2
Total	3		5

**Other Resources Needed:** Software, web designer, data storage.

**Deliverables:** Creation of an Internet page with current data including maps of each region with indications of the key data (biomass resources, transport infrastructure, forestry mills, remote settlements, etc.).

**Timetable:** Completion by May 2003.

**Year Three Indicators and Targets:** Internet-page, 15 companies accessing the page for information and providing needs assessments.

**FOREST Project Year Three Workplan**

**Component 4 Year Three Tasks**

<b>Tasks</b>	<b>Activity Months</b>	<b>Persons/ Institutions Involved</b>	<b>Person Months</b>	<b>Travel</b>	<b>Other Inputs (meetings, facilities, etc.)</b>	<b>Deliverables</b>
i. Support “fast track” companies in development of final engineering plans	August - June	Khodos Miles Kadyszewski International adviser Russian adviser	2 Russian, 2.5 international	Trips both domestically and abroad	Interpreters	Two fast track companies will be provided final engineering plans
ii. Support “fast track” companies in constructing commissioning and start-up of biomass facilities	December - May 2004	Khodos Shkonda Paramonova Kadyszewski Miles International adviser Russian adviser	5.5 Russian, 2 international	Trips both domestically and abroad	Meeting expenses, training expenses	Two recommendation reports and one operation manual
iii. Identifying second tier companies to support	July-June	Khodos Shkonda Paramonova Kadyszewski Miles Vartanov Russian adviser	8 Russian, 1.5 international	Trips both domestically and abroad	Meeting expenses, interpreters	Three second tier companies identified and MOU signed, three design firm contracted
iv. Development of investment study for second tier companies	July-June	Khodos Paramonova Shkonda Ivanchikov Russian adviser International advisers	9.5 Russian, 2 international	Trips both domestically and abroad	Meeting expenses, interpreters, design firms	Three new investment studies completed

**FOREST Project Year Three Workplan**

<b>Tasks</b>	<b>Activity Months</b>	<b>Persons/ Institutions Involved</b>	<b>Person Months</b>	<b>Travel</b>	<b>Other Inputs (meetings, facilities, etc.)</b>	<b>Deliverables</b>
v. Hosting a workshop on biomass facility construction financing possibilities	May	Shkonda Paramonova Khodos Ivanchikov Vartanov Kadyszewski International advisor	5.75 Russian, 2.5 international	Trips both domestically and abroad	Meeting expenses, interpreters, editing and duplication of investment studies	One workshop conducted, at least one investor identified for a second tier company.
vi. Dissemination of information on the potential to use biomass energy	July-June	Khodos Shkonda Paramonova Miles Vartanov	4.25 Russian, 0.5 international	Domestic trips	Publications, communication means, Internet capabilities	Working group meeting held, 20 potential partners attending conference.
vii. Collection of potential companies' data	September - June	Khodos Shkonda Paramonova Vartanov Miles	3.5 Russian, 1 international	Trips both domestically and abroad	Communication expenses, software, Internet	Data will be collected from 15 possible new partners.
viii. Providing training to increase expertise in engineering and in operating biomass facility	September-October, February-March	Khodos Shkonda Paramonova Huang International adviser	2.5 Russian, 2 international	International and domestic trips	Business trip expenses, per diem, interpreters, meeting expenses, etc.	10 certified experts.
ix. Data acquisition	May	Khodos, Shkonda, Paramonova, Russian Adviser, Kadyszewski Huang, Intl adviser	5 Russian, 3.5 international		Software, web designer, data storage	Web page, 15 gps., access the page for info & provided needs assessments

## **E. Component 5: Forest Policy and Legal Reform**

### **1. Background and Proposed Approach and Priorities**

The FOREST Project works with krai and oblast administrations and beneficiaries to adjust existing policies that pose obstacles to the four technical components. FOREST is not reviewing general forest policy, but is strengthening groups to advocate to change policy and to bring policy makers together to review policies that hurt the current economy and environment as it relate to FOREST.

#### Russian Partners

The key partners on the policy and legislation component include local and national representatives of the Ministry of Natural Resources and the local administrations. This component also works with the relevant partners of each technical component.

#### Working Group Formation

Since this component supports the four main technical components, no independent working group was formed.

### **2. Summary of Year Two Results**

Since his arrival to the FOREST Project, Evgeny Kuzmichev, Deputy Project Manager, facilitates the policy component of FOREST. To assess the policy gap, he met with key people including members of the government and FOREST staff in Moscow, Khabarovsk, Krasnoyarsk, and Yuzhno-Sakhalinsk to determine key policy issues.

Based on the meetings, key policy issues were identified and lists of the normative regulatory acts were prepared. Some of the policy analysis tasks that may be appropriate for the FOREST Project to focus on are:

- Review the policy of the fire fighting services, fire prevention, and pest control. Help clarify the rights, duties, and responsibility of the forestry and administrative service staff.
- Determine the forms and methods of the public participation in the decision-making process and forestry management, describing the rights and responsibility of the citizens and NGOs participating.
- Identify useful political and legal tools to achieve the project's goals.

In April, FOREST conducted a seminar, bringing policy makers and component leaders together. The open discussion resulted in a list of policy issues that can form the foundation for future policy activities. Based on the evaluation of the participants everyone felt the meeting was very useful and should be conducted again.

Finally, seventeen people learned the fundamentals of policy and legislative advocacy, government relations, and how to participate in the policy development and decision-making processes that affect the forestry sector in the RFE and Siberia.

### **3. Changes and Adjustments from the Year Two Workplan**

This component is to address key policies and legal issues that are obstacles to meeting the goals of the project; however, many of the obstacles are economic and not entirely related to forest policy. FOREST proposes to adjust the approach and not conduct a gap analysis or develop a feedback mechanism as a single event (as described in the workplan) but rather as an on-going activity. Each component leader, Working Group and Advisory Council member will be consulted to provide their analysis of policies that discourage the project results from being achieved. In addition, FOREST Project beneficiaries will be asked for ideas on policy

problems they face at workshops, meetings, seminars, and other events. For example, discussion of policy issues facing the forest industry sector will be a part of the association meetings.

In addition, FOREST sees the need to improve local capacity to address policy change. An advocacy-training workshop was developed to empower members to advocate policy and legislative change.

#### **4. Tasks for Year Three**

Policy initiatives of the FOREST Project will be described in the technical component's workplan and will be budgeted in the respective components.

## **F. Component 6: Applied Forestry Research**

### **1. Background and Proposed Approach and Priorities**

The FOREST Project's Applied Forestry Research Component supports research activities as needed in the four technical components and focused on developing baseline maps showing carbon stocks as an overall indicator of the FOREST Project. The extent to which critical carbon sinks in the RFE and Siberia are conserved and sustained is an important objective of FOREST.

During Years One and Two, a collaborative research network was developed for measuring changes in greenhouse gas emissions—mainly carbon dioxide (CO<sub>2</sub>)—and changes in carbon stocks in the Russia FOREST Project area. The team worked with partner organizations to complement carbon monitoring methodologies and to obtain a clear picture of the impact of various activities on carbon stocks in the project area. The Carbon Working Group used remotely sensed data and data from permanent sample plots to generate carbon vegetation maps of the project areas.

#### Russian Partners

Collaborating research institutions include the Sukachev Institute of Forest, Krasnoyarsk; the Far Eastern Forestry Research Institute, Khabarovsk; the Far Eastern Economics Research Institute, Khabarovsk; the Far Eastern Division of the Russian Academy of Sciences, Khabarovsk; the Pacific Institute of Geography, Far Eastern Division of the Russian Academy of Sciences, Vladivostok; the Saint Petersburg Forest Ecological Center; and the International Institute for Applied Systems Analysis; Department of Science and Information Systems under the Ministry of Natural Resources; Department of Forestland Management and Rehabilitation under the Ministry for Natural Resources.

#### Working Group Formation

A special Carbon Working Group was formed to develop methods for establishing carbon baselines and for monitoring changes in carbon in the FOREST Project's target areas, and was comprised of three Russian scientists with extensive experience in carbon measurements, remote sensing, forest inventory, and information dissemination.

### **2. Summary of Year Two Results**

Initial maps and carbon stock inventory of Khabarovski and Krasnoyarski Krai were completed. Some of the accomplishments include:

- A manual that outlines the principles of carbon-monitoring plan including carbon methodologies for validating digital vegetation maps of Khabarovski Krai and Krasnoyarski Krai.

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## **FOREST Project Year Three Workplan**

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- Summaries of forest inventory data and estimate phytomass and carbon storage in forest stands of Khabarovski Krai (and the fire target areas) and Krasnoyarski Krai (and the pest target areas).
- Digital vegetation maps for Khabarovski Krai along with a report on the methodologies used to develop the maps. These maps provide a fresh review of the vegetation of Khabarovski Krai and they capture the complexity of the land surface, the variability of its terrain, and forest fire impacts. The work can be repeatedly improved, successively with new data readily available each year; information content might be further increased with additional imagery data of higher resolution. Still, these maps represent the best current understanding of the landcover of Khabarovski Krai.
- A digital forest vegetation map of the pest target area near Krasnoyarsk.
- Development of a carbon information network for the Russia Far East. This network will help review and comment on reports produced by the carbon Working Group.
- Research studies conducted by each component of the FOREST Project (described in each component).

### **3. Change or Adjustments from Year Two Workplan - None**

#### **4. Tasks for Year Three**

Applied research activities will continue to be planned and budgeted within the primary component workplans. As the key areas that will be affected by FOREST Project impact (Khabarovski Krai fire areas and Krasnoyarski Krai pest areas) have been mapped, FOREST will not map additional areas in Year Three.

## **G. Component 7: Grants/Loans**

### **1. Background and Proposed Approach and Priorities**

The grant component supports the four technical components of the FOREST Project by funding Russian organizations, institutions, and non-governmental organizations for specific activities that will help to achieve the project's goals. Preparation for the grants component was started in Year One, and two grant cycles have been completed during Year Two. The third and fourth grant awarding cycles have been proposed for Year Three.

### **2. Summary of Year Two Results**

A total of \$115,000 in grant contracts was awarded in five grants during Year Two of the project. This includes:

- \$25,000 Emergency Grant to buy equipment to fight forest fires to the Khabarovsk Regional Branch of the Public Organization, "Russian Society of Foresters."
- Two grants of approximately \$15,000 each to develop Forest Recreation Areas Development (to reduce fires from forest users) to the Interregional Association of Independent Tour Operators of the Far East (Khabarovsk); and the Far Eastern Scientific Research Institute of Forestry (Khabarovsk).
- Two grants of approximately \$30,000 to establish Information Resource Centers (for forest sector association members) to State Siberian Technological University (Krasnoyarsk) and the Far Eastern Association of Wood Processors.

## FOREST Project Year Three Workplan

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Currently four requests for applications are pending for:

- Creation of Forest Recreation Areas
- Leskhoz Forest Protection Management System Development
- Increasing Value-Added Processing of Forest Products
- Feasibility Development for the Construction of Cogeneration Plants Operating on Wood Waste

In addition, 69 people (including 37 women) were trained in grant writing techniques and 14 people (including 6 women) were trained in financial and technical reporting for FOREST.

### Russian Partners

Close relationships were established with a number of commercial banks and leasing companies during the loan program development process, as well as during questioning of financial organizations to create a database on the Far East and Siberian credit environment. These organizations are interested in implementation of a joint loan program. In spite of component budget reductions, cooperation is being considered in business plan development for Project partners for their further financing by credit partner organizations.

### Working Group Formation

The Grant Component Working Group was composed of anonymous experts who are specialist in the sphere of the relevant technical component's activity. The group is responsible for evaluating applications for grant funding. To date, the component staff maintains contact with 32 anonymous experts. USAID will have final approval for all grant applications reviewed and approved by the Advisory Council.

### **3. Changes or Adjustments from Year Two Workplan**

The FOREST Loan component was reviewed but it was decided that FOREST would focus only on grants.

### **4. Tasks for Year Three**

**i. Administer Grants Program.** The procedures for soliciting proposals, ranking them, and awarding grants are outlined in detail in the FOREST Project Grant Procedures Manual. The process—starting with the request for applications, grant approval and award, and monitoring the impact of grant implementation—was initiated in Year Two and will continue in Year Three.

### **Technical Assistance:**

International	Months	Russian	Months
		Erokhin Alexei	12
		Begunkova Elena	12
		Danilyuk Nina	2
		Sverdlova Arina	6
		Vorotyntseva Tatyana	6
		Consultants TDB	1
Total	0	Total	39

**Other Resources Needed:** Publication, communication, travel, and office space costs.

**Deliverables:** Proposals, reports on accomplishments from each grantee, delivered monthly, visiting the grant recipients at site as necessary.

**Timetable:** \$200,000 awarded by December 2002, and \$200,000 by June 2003.



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**Year Three Indicators and Targets:** The third and fourth grant cycles administered with results supporting the project goals.

**ii. Train Grant Recipients.** Organizations that are awarded grants will receive training on administering, monitoring, and reporting, as well as ecological and financial management fundamentals meeting USAID reporting requirements. The location and number of trainings will depend on the distribution of awards, but a minimum of two training sessions per grant cycle will be conducted to encompass all grant recipients.

**Technical Assistance:**

International	Months	Russian	Months
Trainer of Trainers	1	Trainers	4
Total	1	Total	4

**Other Resources Needed:** Materials, meeting costs, per diem.

**Deliverables:** Grantees provide well-prepared financial and technical reports on time.

**Timetable:** Four training seminars on full grant application completed by May 2003 in the territories covered by the FOREST Project.

**Year Three Indicators and Targets:** Reports on grant program implementation and results.

**FOREST Project Year Three Workplan**

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**Tasks for Component 7 Year Three**

<b>Tasks</b>	<b>Activity Months</b>	<b>Persons/ Institutions Involved</b>	<b>Person Months</b>	<b>Travel</b>	<b>Other Costs (meetings, facility equipment, etc.)</b>	<b>Deliverables</b>
i. Administer Grant Program	July to June 2003	FOREST Project Staff	39 Russian	10 domestic trips	Publication of grant cycle announcement, cooperation with the group of experts, site visits to the grantees.	To support technical components of the FOREST project grants have been awarded to the tune of \$400,000.00. Reports on the realization of the project, and on the visits to grantees.
ii. Train Grant Recipients	September to May 2003	FOREST Project Staff. International Consultant TBD	4 Russian 1 International	Domestic trips and intl trip	training costs	Grant recipients trained to work under grants awarded.

## H. Volunteer Program

### 1. Background and Proposed Approach and Priorities

The FOREST Project uses expert consultants who volunteer their time to work on specific short-term assignments. Use of volunteer experts has been demonstrated to be a cost-effective way to bring focused technical expertise to achieve results. Volunteers contribute significantly while in country, and many maintain relationships with the partner organizations once they return to their home countries. These consultants offer the opportunity to promote exchanges and long-term relationships between Russian and American businesses and organizations.

The volunteer component is demand driven and based on the needs that component coordinators, working group members, and partner organizations identified. This is particularly useful for unanticipated problems that arise and that could be best solved by an expert with specific qualifications.

The assistance provided by volunteer-experts is a considerable, potential and economic resource. Realization of this resource depends on a number of requirements:

- Accurate identification of the problem
- The development of a realistic and doable task
- Getting a perfect match of the volunteer's expertise and skills
- A clear understanding of the task by the volunteer
- The Host to be open to Volunteer's recommendations and innovations

The volunteers assist in finding effective solutions over the problems and help to develop long-term relations between Russian and US businesses and organizations.

### 2. Summary of Year Two Results

As of June 30, 2002, the FOREST Project will have successfully fielded a total of 48 volunteer consultants (37 American and 11 Russian) which have assisted more than 30 Russian organizations. To date, FOREST has fielded approximately two American volunteers for every one paid American consultant.

### 3. Changes and Adjustments from Year Two Workplan - None

#### 4. Tasks for Year Three

In the coming year, the Volunteer Technical Assistance Program will work to enhance the involvement of Russian experts on a volunteer basis as well as to increase the number of projects with joint activity involving Russian and US experts. FOREST intends to field 40 volunteers during Year Three. Volunteers are planned to support the following component activities:

**Fire Prevention:** assisting in development of recreation zones (landscape design, park management, self-guided tours) and ecotourism, and assisting NGOs as needed.

**Pest Monitoring:** assisting in the implementation of pest monitoring activities and assisting NGOs in public education campaigns.

**Non-Timber Forest Products and Secondary Wood Processing:** assisting association partners and association member companies in the following ways:

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- Association Partners in expanding their membership through improved quality and quantity of services to members, and improved management services.
- Association Member Companies in increasing production and/or decreased operational costs, increasing volume of sales, developing new products, using new technology, and entering new markets.

**Biomass Energy:** assisting partner companies in development of biomass energy projects at all phases from business plan design to facility construction and operation.

**Policy and Legislation:** participation of US volunteers in workshops and seminars on forest policy gaps.

**Grant Component:** assisting local applicants in grant application writing and local grant winners in implementing their activities.