

The Applied Research Institute-Jerusalem



ANNUAL REPORT 2001

This year was a major challenge for the Applied Research Institute-Jerusalem (ARIJ) as it was for other Palestinian institutions. As the Palestinian Intifada continued, the Israeli occupation forces escalated their attacks on the Palestinian communities throughout the west bank and Gaza inflicting hundreds of casualties, thousands of injuries, destruction of infrastructure, leveling thousands of donoms, uprooting of trees, and strict restrictions on mobility through military checkpoints and closures. These actions affected the institute and its operations especially during the two incursions of the Israeli army in Bethlehem which prevented the workers from reaching the institute. ARIJ also witnessed many shooting incidents close to its premises, which affected its function. Few bullets hit the library, and the administration offices. One of ARIJ staff was arrested at one of the checkpoints and issued with an administrative detention order for six months without any charges presented. Due to travel restrictions imposed on Palestinians, field work became extremely difficult. Many of ARIJ staff were unable to attend a number of conferences and meetings. ARIJ could not get the air quality monitoring units, which arrived at Jerusalem to be brought to Bethlehem and Nablus, and installed due to security issues.

To face these challenges, ARIJ adopted a series of measures to cope with the situation and to continue its operations. These included renting and equipping a premise in area A where employees can work when they can't come to ARIJ, hiring of field workers in various districts to document land use changes and utilizing internet and video-conferencing for communications. Thus, ARIJ was able to continue its work despite all the difficulties and its growth as a Palestinian center of excellence in the fields of water, environmental, agricultural and land use research.

During this year, ARIJ directed its efforts to strengthen its relations with the Arab world. As preparations were taking place for the WTO conference in Doha, ARIJ worked with the Arab development NGO network on developing a paper on the challenges facing Arab agriculture in a globalized world. The institute also participated this year in the international conference held in the Iraqi capital in July 2001 commemorating the 20 years since the destruction of the Iraqi nuclear reactor and submitted a paper addressing the environmental degradation in the Middle East. ARIJ also published two papers in the Arab journal for sciences, published by the Arab league for education, Sciences and culture. ARIJ also received an invitation to participate in the Arab ministers' conference concerning science and technology in

December 2001, but due to the closure imposed on the Palestinian areas, ARIJ could not attend. Moreover, ARIJ participated in the regional meetings for the dryland agrobiodiversity project, which was held in Latakia, Syria where ARIJ made a presentation on the requirements for integrating and homogenizing the GIS data. ARIJ also participated in the regional workshop for priority setting of agricultural research in the region, which was held in Icarda headquarters at Aleppo. In addition, ARIJ published an article on the environmental conditions in Palestine in the Lebanese social and scientific research journal. At the same time, several contacts were made with the Arab institutions such as the Royal Scientific Society and the Hashemite University, Jordan.

Also, this year witnessed further cooperation and joint work with the Palestinian ministries and national institutions. Close cooperation developed between ARIJ and the Negotiations Affairs Department (NAD) during which the Director General participated as a technical advisor in “Taba” negotiations which took place in January, 2001. Later, ARIJ participated in the formulation of the Palestinian position paper on water and environment. In addition, ARIJ preparing a study on the infrastructure in Jerusalem which later was integrated into a position paper concerning Jerusalem. ARIJ continues to provide NAD with the latest information concerning settlements expansions and other related aspects.

Moreover, ARIJ continued its work throughout this year with the Palestinian Ministry of Agriculture (MOA) in preparing the agrobiodiversity strategy and policy through the regional dryland agrobiodiversity conservation project which is funded by the Global Environmental Facility and implemented by ICARDA and UNDP. In this project, three sites have been selected for in situ conservation and ARIJ is responsible for developing the spatial data and linking it to the socioeconomic database. In addition, the director general worked on evaluating the capacity building project in the Ministry of agriculture which is supported by the Netherlands government through UNDP. ARIJ held a number of meetings with MOA staff working on the land and water optimization project which is funded by the Austrian government where it was agreed that ARIJ will execute the agronomy task of this vital project which will culminate in the production of an agricultural land use map in Palestine and a model for optimizing the land and water utilization based on a set of scenarios. MOA nominated the general director to participate in the food security conference held in Bonn, and in the Arab ministerial conference to conserve agrobiodiversity in which is going to be held in Cairo early next year. Moreover, this year ARIJ held a joint training course for nature reserves rangers in MOA with support from Heinrich Boll Foundation. A manual on irrigation management has been completed in corporation with the ministry and will be disseminated to the farmers through a couple of workshops. ARIJ also worked with the ministry on the regional project to develop dryland agriculture which is supported by the Danish government and ARIJ has outlined the requirements for building a computerized spatial regional data base that could be used in the future to build a decision support system to develop this sector.

This year witnessed more cooperation with the Palestinian Ministry of Planning and International Cooperation (MOPIC) in exchanging data concerning settlements, land use changes, transportation, poverty report and long term planning. ARIJ worked with the Palestinian team responsible of preparing the poverty report, by hosting the project team responsible for the field survey in Bethlehem district, and participating in

formulating the work plan, and finalizing the questionnaire to ensure that it is comprehensive and addresses both the direct and indirect causes of poverty. Moreover ARIJ worked with the World Bank team responsible for preparing the economic report in Palestine, by linking the database with spatial data and a socioeconomic map for Palestine which was valuable for determining the hot spots and interference priorities. The World Bank provided ARIJ with a small donation to help in developing its abilities in connecting the socioeconomic aspects with land use, environment and infrastructure.

ARIJ also continued to work with the Palestinian Ministry of Environmental Affairs (MENA) through the joint effort for localizing Agenda 21 in Palestine and air quality monitoring.

ARIJ submitted a project proposal to the Palestinian Ministry of Local Government (MLG) to train the staff of the ministry and municipalities in GIS and remote sensing. ARIJ was contracted by the ministry to develop a climatic zoning map for Palestine to be used in the housing specification. At the same time, ARIJ is working with Bethlehem governorate to construct a computerized spatial database for land ownership and use. ARIJ provided the Palestinian Water Authority (PWA) with the ground water model for the Western aquifer, which ARIJ had developed in its study on the sources of water pollution in the West Bank. ARIJ also provide PWA with information on endangered plants and animals in Hebron and Bethlehem districts within its environmental impact assessment of water projects in these areas. In addition, ARIJ worked with PWA in specifying the crops types according to water quality..

During this year, Bethlehem governorate was exposed to two incursions and several attacks from the Israeli occupation army which resulted in the loss of 65 lives and severe destruction of infrastructure including roads, homes and other public facilities. The chamber of commerce in Bethlehem organized a conference to present its assessment of the damages and ARIJ submitted a paper outlining the agricultural, environmental and infrastructural damages. Bethlehem governorate was designated as a disaster area that needs an immediate emergency and rehabilitation program. ARIJ joined the emergency committee of the governorate which is working with the donor community and is responsible for setting priority interventions. The director general made a presentation to the members of the Mitchell's Committee when it visited Bethlehem concerning the settlements expansions in the Palestinian territories and provided the committee with a comprehensive report on this issue which had impact on the committee's findings as evident in its final report which demanded total and immediate freeze on all settlement activities in the Palestinian territories.

ARIJ responded to the initiative of the new governor in Bethlehem which called for stronger cooperation between the governmental and non-governmental institutions. ARIJ is actively involved in the work of the emergency and the strategic planning committees. ARIJ was asked to prepare the agricultural, environmental and infrastructural files in cooperation with the relevant departments and submit an action plan for future interventions in these domains.

As for cooperation with other civil society institutions, ARIJ assumed a pioneering role this year in the establishment of the Palestinian environmental non governmental organizations network (PENGON) which now enjoys the membership of more than

20 institutions. ARIJ was elected as the secretary of the network and is working towards a joint Palestinian paper to the World Summit on Sustainable Development (WSSD) which is scheduled to be held in Johannesburg in September 2002. ARIJ, the Palestinian Hydrology Group (PHG), the Palestinian Agricultural Relief Committee (PARC) and the Water and Environmental Research Centre (WERC) are working together on submitting a joint research project on water management which may be considered as a qualitative leap in institutional relations. In addition, ARIJ continues to work jointly with the land research center (LRC) of the Arab Studies Society (ASS) on monitoring settlements expansion in Palestine with support from the European Commission. In average, three case studies are published every week on the joint website in addition to monthly and quarterly reports. The website became a main source of information concerning settlements expansion as evident by the number of hits to this site . ARIJ and LRC are regularly briefing the EU consuls and representatives on the latest settlements expansions. ARIJ also worked this year with Badil in producing a number of maps that were presented in the International Conference against Racism that was held in Durban.

Administrative and Organizational issues: -

The political situation had its impacts on ARIJ administration since holding the periodic meetings of the board of trustees and the administrative committee became extremely difficult. As a result, most meetings had to be postponed and rescheduled. Due to these conditions, the annual board meeting and elections were postponed several times and finally, it was held in Al-Quds University premises. Despite that, this year witnessed new developments in the administrative and organizational issues. The meetings of the board and the administrative committee focused on formulating policies, and plans designed to insure the sustainability of ARIJ and developing its program in light of the current political changes. Following extensive discussions, the board took the following discussions:

A-General Policies: -

- The need to identify the role of ARIJ and its mission in light of the political developments as a consultative institution or a specialized research center in the fields of agriculture, water, environment and land use or a strategic research center.
- The need for horizontal expansion in the scope of work to include additional research fields such as socio economic issues, Information Technology etc.
- The significance of disseminating information to all concerned parties.
- The importance of holding workshops, lectures, and other activities in order to strengthen the communications with all sectors of the Palestinian society and share ARIJ's work,;
- The necessity to bolster the relationship with both governmental and non-governmental institutions.
- The need to publishing scientific research papers in international journals.

B- Sustainability

ARIJ held a series of brainstorming sessions that involved the staff, board members as well as local and expatriate professionals that aimed at addressing the issue of its sustainability. Since its established eleven years ago, ARIJ has been struggling to ensure funding for its activities through research grants. While this was relatively possible in the first few years of its establishment, it is now becoming apparent that the political situation and donor shift towards emergency and relief has hampered ARIJ's efforts to continue guaranteeing funding for its activities. The following guiding principles were alternatives that were proposed to promote the sustainability of ARIJ:

- To create an endowment that will be used to cover a good portion of the operational expenses of ARIJ. A committee was formed from board members to put a plan of action for launching this initiative.
- To diversify the sources of funding and focus on international competitions for research grants away from bilateral donors. To this effect, ARIJ has been able to secure funding from the EU, IDRC, MERC, GEF and the Welfare association.
- To attempt securing medium term support for its overall program similar to the current SDC support.
- To increase the number of local consultancies and their magnitude.
- To try executing international consultancies. ARIJ has teamed with a number of American, British, Canadian, Finnish and German consultancy firms and submitted qualifications for executing local and international consultancies.
- To provide paid services locally and internationally. ARIJ continued to embark on this effort and succeeded in providing a meager amount of less than \$ 5,000 in return for providing maps to the World Bank, MLG, SOAS, UN etc. ARIJ intends to offer training courses in GIS and environmental management in an attempt to create some income to cover parts of its operational expenses.
- To generate income from the sales of its publications. ARIJ was able to make some income from the sales of the atlas and other publications. A second reprint of the atlas was made as well as a CD version. A major obstacle is for ARIJ to be able to use e-commerce for marketing the atlas but ARIJ is working on this issue. An Arabic version of the atlas is being prepared for potential distribution in the Arab world.
- To join networks of excellence. This will be a major challenge for ARIJ that has to be faced especially in light of the new approach that the EU is embarking on in its research cooperation where the focus would shift from traditional funding of research topics to supporting networks of excellence in a specific research area. The EU plans to launch this initiative next September and ARIJ has geared up to join in its field of expertise.

- To secure funding from the PNA for its operations. ARIJ is advocating the need for the PNA to promote R&D in Palestine as an essential ingredient for sustainable development. This has been well reflected in the green paper on science, technology and innovation that will be presented by the ministry of higher education and scientific research. It is hoped that the PNA will allocate no less than 2 % of its annual budget for R&D to support national research centers, universities, research institutions and the private sector according to a well defined strategy and policy.

C- Scope of work -

- Develop a contingency plan that would enable ARIJ to continue its activities under the current crisis conditions.
- Work on producing the Atlas of Palestine in Arabic and market it extensively locally and in the Arab world.
- Work on the production of the Historical atlas of Palestine.
- Conduct a comprehensive evaluation for ARIJ where a TOR for the evaluation was agreed upon and the services of both a local and international consultant will be sought to conduct the evaluation as soon as the political circumstances allow for conducting such a mission.
- Establish a socio economic research unit.

D. Organizational issues:-

- Taking a final decision regarding membership of the board and its expansion. Appointing a public relations officer.
- Renting an alternative office in area `A`.
- Transferring copies of all the database, maps, and aerial photos to the new office.
- Computerizing the administrative system at ARIJ including scanning all the official papers, minutes, and documents.
- Automating all the forms used in ARIJ such as purchase orders, requisition forms, travel request, vacation forms etc.
- Upgrading the resources center archiving system.

Research activities

Despite the difficult circumstances and harsh restrictions imposed on the mobility of Palestinians, ARIJ was able to continue its research activities. An emergency plan of action was adopted with contingency arrangements so that work can proceed depending on the type of constraints imposed. ARIJ contracted a number of field workers in the various districts and trained them to conduct the necessary field work and submit reports on environmental conditions and settlements expansion. In addition, ARIJ sought the services of other NGO's in different districts to overcome the restriction on mobility. The use of internet and video conferencing helped ARIJ and its staff to cope with the situation and even participate in international conferences.

This year witnessed further demand on ARIJ's web site from persons all over the world seeking detailed information on the Palestinian issue. The number of hits to the site averages 5000 daily with priority interests to the eye on Palestine and maps followed by environment, water and agriculture. What is quite evident is that following the 11 of September, there has been a substantial surge in the interests of many internet users in the situation in the Middle East. The webmaster at ARIJ regularly receives emails requesting clarifications and specific information. The following section outlines the research activities of ARIJ units.

Biodiversity and Agricultural Research Unit (BARU)

This year, the unit continued to execute the following projects:

- Working with the Palestinian Ministry of Agriculture in preparing the agrobiodiversity strategy and policy through the regional dryland agrobiodiversity conservation project which is funded by the Global Environmental Facility and implemented by ICARDA ad UNDP.
- Conducting demonstration with farmers in the Eastern slopes to improve dryland farming. 240 dunums were planted benefiting 31 farmer families.
- Producing a manual on irrigation management in corporation with the ministry of agriculture.
- Documenting the oral plant history in Palestine with support from UNDP through GEF small grant projects and preparing a Palestinian agricultural calendar.
- Working on the assessment of urbanization in the southern part of the West Bank which is funded by IDRC.
- Working with the ministry of agriculture on the regional project to develop dryland agriculture which is supported by the Danish government outlining the requirements for building a computerized spatial regional data base that could be used in the future to build a decision support system to develop this sector.
- Updating the agricultural database.

In addition, the unit submitted the following new research projects for potential funding:

- 1) Producing composting from domestic solid waste to improve food security in Palestine.
- 2) Phase of the assessment of urbanization to cover the rest of the West Bank.
- 3) Following up the field demonstration in the dry land.

Geographical informational system and remote sensing unit GIS:

During this year the unit continued its work in executing the following projects: -

- Conducting an integrated geographic, economic, social and environmental profile for Artas village financed by the Finnish Institute for Middle East Studies.
- Working on producing the Atlas of Palestine in Arabic.
- Producing the atlas of Palestine on C.D with financial support from IDRC..
- Implementing the GIS component of the agrobiodiversity projet for the benefit of MOA.
- Working on introducing ARC/MIS at ARIJ in preparation for launching an interactive GIS service on the internet.
- Compiling information in preparation for the production of the historical atlas of Palestine.

The unit also worked on submitting two new research projects for potential funding dealing with transportation policy and modeling. The projects were submitted to the `MEDA` program of the European Commission and the Global Environmental Facility.

Water and Environment Research Unit: -

During this year the unit executed the following projects: -

- Training the nature reserves rangers in the West Bank in cooperation with the Palestinian ministry of agriculture on management of nature reserves. 20 rangers participated in the program which was supported by the Heinrich Boll Foundation. A training manual on nature reserves management was published and a core group of rangers was established for future follow up.
- Monitoring air quality in Palestine was initiated but regrettably, it was impossible to install the monitoring units due to the political situation although the units were purchased and arrived in Jerusalem. The unit started the work on CO2 emissions inventory and land use waiting for the arrival of the monitoring units.
- Compiling information on sustainable development indicators in Palestine.
- Assessing the performance of the small scale waste water treatment unit.
- Working with the Ministry of Environmental Affairs in executing a cleaning campaign in Bethlehem district with the participation of a number of schools. The campaign was sponsored by the Japanese Government through UNDP.

In addition, the unit wrote a number of new research projects and submitted them for potential funding. These included:

1. Developing sustainable development indicators for Palestine.
2. An Environmental profile for Battir village.
3. Development and application of indicators concerning sustainable development in Bethlehem city.
4. Ecosystem Approach to human Health: The Barqan Israeli industrial zone and its impact on the surrounding environment.

Visits:

This year witnessed a large number of visitors to ARIJ. On 24/3/2001, ARIJ had the honour of hosting the Swiss foreign minister Dr. Joseph Deiss and the accompanying delegation where a presentation was made regarding the geopolitical situation and the Israeli settlements on the Palestinian territories. On 19/4/2001, the Turkish Minister for Northern Cyprus Affairs and the general Turkish Consul General in Jerusalem visited ARIJ for a discussion of the political situation in the region and potential cooperation. On 24/4/2001, ARIJ and the Land Research Center (LRC) of the Arab Studies Society hosted the representatives of the European Consuls and representatives to the PNA for a briefing on the latest developments concerning the settlements expansion in the Palestinian territories. On 28/4/2001, a German parliamentary delegation from the Green party headed by its president, Ms. Kerstin and accompanied by Mr. Christian Sterzing, the political coordinator for the parliament work group for foreign affairs, human rights and disarmament and accompanying delegation visited ARIJ for a presentation concerning the environmental problems in Palestine and the effects of occupation on environmental degradation. On 12/5/2001, ARIJ hosted the enquiry committee from the American Protestant Church comprising Dr. Fahd Abu Aq`el, Ms. Sara Humphrey and Ms. Faith Bradley where they were briefed about the latest geopolitical situation in the Palestinian territories. A delegation of twenty American students in a study mission in the region organized through the Catholic Relief Services visited ARIJ on 31/5/2001 for a briefing on settlements and they were given a presentation concerning the geopolitical situation in the region. Through coordination of the Palestinian Legislative Council, ARIJ hosted a parliamentary delegation on 16/7/2001 from South Africa representing ANC, Inkatha and the New Nationalist party for a briefing on settlements expansions in the Palestinian territories. On 23/8/2001, Prof John Duggard, the special envoy to the Palestinian territories in the United Nations High Commissioner Office accompanied by Ms. Joanna Oyedira and Ms. Darba Topali visited ARIJ for information on the geopolitical situation in Palestine and settlements expansion. A delegation from the Austrian Social Democratic Party headed by, Dr. Alfred Grisen Bauer party leader, Mr. Andreas Rendl, the director of the president's, Mr. Robert Lingruber, International relations secretary accompanied by Mr. Maher Daoudi from the Austrian representative to the Palestinian authority and a number of journalists visited ARIJ on 30/10/2001 for a briefing on the geopolitical situation in the Palestinian territories. On 7/11/2001, a delegation from the Austrian Green Party headed by Prof. Alexandra Rander party leader, Mrs. Ulrik Launacel the party international relations spokesman, Ms. Eva Glavi Schung Environmental technical affairs, Ms. Andrea Danmayr, party spokeswoman, Ms. Danila Ingruber, Party

president assistant accompanied by Mr. Lapuch, the Austrian representative to the Palestinian authority visited ARIJ for a briefing on the geopolitical situation in Palestine and the Palestinian environmental concerns.

The next table shows the visitors to the institute: -

<i>Date</i>	<i>Visitors</i>
9/1/2001	Beit Fajjar municipality
10/1/2001	Finnish representative to Palestinian authority.
13/1/2001	An Italian academic delegation
15/1/2001	Mr. Greg Shapland from U.K
26/1/2001	Dr. Annick Tonti, SDC
1/3/2001	Dr.Dokreet, Switzerland
10/3/2001	Delegation from the Canadian Representative office to the PNA
12/3/2001	UNDP
13/12/2001	EU delegation
15/3/2001	Dr Sin form Germany
15/3/2001	Mr. Peter Robert from Agrovision
21/3/2001	International Red Cross Committee delegation
24/3/2001	Swiss foreign minister
27/3/2001	Dr. Joel Beinin, Stanford University
28/3/2001	Negotiations Affairs Department Delegation
29/3/2001	World Bank delegation
5/4/2001	Delegation from the Austrian representative office to the PNA
9/4/2001	Vision of the Land
12/4/2001	General Consul of Turkey in Jerusalem
19/4/2001	The Turkish minister for northern Cyprus affairs
24/4/2001	EU delegation
25/4/2001	American delegation
28/4/2001	German Green party delegation
9/5/2001	Canadian delegation
10/5/2001	Canadian delegation
16/5/2001	Canadian delegation
22/5/2001	UNSCO delegation
31/5/2001	World bank delegation
9/6/2001	Finnish delegation
9/6/2001	Canadian CIDA delegation
11/6/2001	Belgian delegation
11/6/2001	American Palestinian Research Center delegation
13/6/2001	Canadian representative to the PNA
19/6/2001	Tamkeen manager
23/6/2001	German delegation
25/6/2001	Poverty report work team
12/7/2001	Canadian representative to the PNA
16/7/2001	Parliamentary delegation from South Africa
23/7/2001	International Red Cross Committee delegation

28/7/2001	IDRC delegation
1/8/2001	Mr. Martin Kuhn, Regional Danish project director
6/8/2001	Negotiations affairs department delegation
9/8/2001	E.U Consuls and representatives
22/8/2001	UN Human Rights Commissioner special envoy
11/9/2001	Norwegian delegation
19/9/2001	Canadian representative to the PNA
3/10/2001	French delegation
4/10/2001	British delegation
30/10/2001	Austrian Social democratic party delegation
7/11/2001	Austrian green party delegation
4/12/2001	UNDP delegation
6/12/2001	Austrian representative to the PNA
6/12/2001	FAO delegation
13/12/2001	Irish delegation
18/12/2001	American Consulate delegation
31/12/2001	Mrs. Mairead Maguire, Nobel Peace prize laureate and Mr. Jacob Issa from peace line.

The visits this year were distinguished with many official delegations, in which the institute provided comprehensive presentations concerning the geopolitical situation besides the settlements expansions, in which indicate the credibility that the institute holds.

Lectures:

This year ARIJ continued to present lecturers, and presentations concerning the geopolitical situation and settlement expansions besides the environmental prospects for many activities and delegations as follows: -

Lectures

<i>Data</i>	<i>Delegation</i>
29/1/2001	American delegation through Mennonite central committee
13/2/2001	American delegation through Mennonite central committee
22/2/2001	Sabeel Conference
4/4/2001	Mitchell Committee
19/4/2001	American delegation
9/5/2001	Canadian delegation
12/5/2001	American delegation through the catholic relief services
23/5/2001	American delegation through middle east churches council
23/5/2001	Japanese delegation
23/5/2001	Canadian delegation
24/5/2001	Dheishah Social center
30/5/2001	American delegation through CPT
31/5/2001	American delegation through catholic relief services
15/6/2001	American delegation

16/7/2001	Parliament delegation from South Africa
23/7/2001	American delegation
27/7/2001	Bethlehem economical conference
30/7/2001	Denmark red cross and Palestinian red crescent delegation
9/8/2001	European countries councils and representatives delegation
9/8/2001	Delegation of Human rights legation

Participation in workshops and conferences: -

Despite the restriction imposed upon the Palestinians movement, ARIJ continued this year to participate actively in many of the workshops, local and international symposiums and conferences. As follows: -

<i>Date</i>	<i>Event</i>	<i>Participants</i>
13/1/2001	Agrobiodiversity workshop, MOA	Dr. Jad, Nader Hreimat and Hanna Maoh
16/1	JOWA project meeting	Dr.Mohammad Ganayem
17/1	Food Security workshop, MOA	Nader Hreimat
21/1	Agrobiodiversity workshop, MOA	Dr. Jad, Nader Hreimat and Hanna Maoh
21/1	Taba Negotiations	Dr. Jad
24/2	Agrobiodiversity workshop, MOA	Dr. Jad, Nader Hreimat and Hanna Maoh
25/2	Eastern slopes development workshop, Welfare Association	Dr. Jad, Nader Hreimat, Roubina Basous and Hanna Maoh
15/3	Agrobiodiversity workshop, MOA	Dr. Jad, Nader Hreimat, Roubina Basous and Hanna Maoh
24/3	Agrobiodiversity policy workshop, MOA.	Dr. Jad
4/4	Mitchell Committee	Dr. Jad
12/4	Meeting with the American Consul Genral	Dr. Jad
17/4	Agrobiodiversity-workshop, MOA	Dr. Jad , Nader Hreimat and Roubina Basous
2/5	Palestinian academy for science and technology-workshop.	Dr. Jad
3/5	Evaluation work shop, MOA	Dr. Jad
24/5	PCBS workshop.	Nader Hreimat
24/5	Settlements work shop	Dr. Jad
19/6	Agrobiodiversity workshop	Dr. Jad , Nader Hreimat and Roubina Basous
26/6	Bethlehem 2000 workshop	Dr. Jad
5/7	Dar al Hikmah conference, Baghdad	Dr. Jad
7/7	Agrobiodiversity steering committee	Dr. Jad
18-21/7	UN conference on Solidarity with the Palestinian people, Spain	Nezar Kattoush
27/7	Bethlehem economic conference	Dr. Jad and Issa Zboun

9/9	PWA and Ministry of Civil Society Institutions workshop on water strategy	Dr. Mohammad Ghanayem
12/7	Agrobiodiversity policy workshop	Dr. Jad , Nader Hreimat and Roubina Basous
13/7	EU parliamentarian delegation meeting	Dr. Jad
19/7	MHE workshop for scientific research policy	Dr. Jad
3/8	Food security conference, Bonn	Dr. Jad
17/11	Preparation of the scientific research green paper workshop, South Africa	Dr. Jad

Work plan for 2002

1. Administrative and organizational affairs.

- Following up the Debate concerning ARIJ's sustainability.
- Working towards finding fund resources.
- Developing a comprehensive evaluation for ARIJ and its actions.
- A developmental program for ARIJ's premises
- Expanding the board of Trustees membership.

2. Research programs: -

A. Agrobiodiversity research unit.

- 1) Follow up the agricultural demonstrations and trials .
- 2) Finish the oral plant history project.
- 3) Finalize the Palestinian Agrobiodiversity policy and legislation
- 4) Participating in setting regional agricultural research priorities in cooperation with ICARDA.
- 5) Participate in the composting project in cooperation with water and environment research unit.
- 6) Participate in the regional project to develop dry farming which is funded by Denmark.
- 7) Execute the consultancy concerning the optimum use of land and water project for the benefit of MOA
- 8) Write research papers in international journals.
- 9) Submit research projects.
- 10) Hold two workshops with the Palestinian Ministry of agriculture concerning the irrigation management.
- 11) Work with MOA in developing a village profile.
- 12) Hold a workshop to present the Urbanization project results in Bethlehem and Hebron districts.
- 13) Follow up the Urbanization project to cover the rest of the Districts.
- 14) Upgrade the agricultural database.
- 15) Participate in the work of the national and governorate agricultural emergency committee.

B. Water and environment research unit.

1. Execute the composting project.
2. Collect of data concerning the sustainable development indicators in Palestine.
3. Prepare a paper concerning the environmental violations in Palestine to be submitted in the second earth summit conference.
4. Follow up the work of Palestinian Environmental NGO's
5. Participate in the second Earth summit conference besides the local and regional activities in preparation for the conference.
6. Proceed with the air pollution project.

7. Work towards modeling the climatic change effects in Palestine, and the confrontation mechanism for their effects.
8. Publish scientific papers in international journals.
9. Work with the Negotiations Affairs Department in formulating the Palestinian position for water and environment.
10. Submit new research projects.
11. Follow up the assessment of the small scale waste water treatment unit, and work towards constructing a local unit.
12. Present an environmental management course in cooperation with al Quds University.
13. Work with the (GIS) geographical information system and remote sensing unit to make a comprehensive environmental survey for Artas village.
14. Follow up the settlements expansion observation and its effect upon the environment.
15. Update the water and environmental information in the institute.
16. Work with the Jerusalem Task Force concerning environment and infrastructure development in Jerusalem.
17. Publish research papers and studies.
18. Develop the institute abilities in the fields of climatic changes and desertification in cooperation with the other units.

C. Geographical information system (GIS) and remote sensing unit:

1. Execute the agrobiodiversity consultancy for the ministry of agriculture and UNDP.
2. Assess the extent of Urbanization and its impacts in the West Bank which is funded by IDRC..
3. Develop a comprehensive survey for Artas village through support from the Finnish Middle east Institute.
4. Monitor settlements expansion in the Palestinian territories.
5. Work with Beit Sahour municipality to produce an integrated geographical information database.
6. Working with Dr. Frank Afflito form Arizona University in using the geographical information system in documenting the ISRAELI aggressions in the Palestinian territories.
7. Working with the Ministry of Higher Education and Scientific Research in preparing the white and green papers for developing scientific research in Palestine.
8. Work with the Negotiation Affairs Department, the Palestinian Negotiating team and Jerusalem Task Force.
9. Publishing research papers and studies.
10. Developing the institute's abilities in the fields of ARC IMS & ARC PAD.

Publications

Despite the entire critical situation's facing the Palestinian territories, ARIJ managed this year to publish scientific papers, and books in many local and international countries.

1. Jad Isaac, Mohamed Ghanayem and Mohamed said Al Hamidi, editors
Localizing agenda 21 in Palestine, ARIJ (2001).
2. Furst, F., Isaac, J., Ishaq, I., Kaplan, J., Moah, H., Petzold, I., Plumer, L., Salomon, I., Schurman, C., Spiekrmann, K., Wegener, M. (2001),
Sustainable transport planning for Israel and Palestine, presented at the
World Conference on Transport Research (WCTR), Seoul, Korea.
3. Jad Isaac and Majed Abu Kubi (2001), Using of remote sensing in
assessing land use changes in Palestine , The Arab Journal for Sciences,
volume 37, pages 68-80, Arab Organization for Education, Culture and
Sciences.
4. Jad Isaac and Nader Hreimat(2001), The Palestinian agricultural sector
and the potential of its development through scientific research, The Arab
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ARIJ estimated budget 2002-2005

Item	Year			
	2002	2003	2004	2005
Salaries	312,000	350,000	367,500	385,875
Office Rental	15,600	15,600	15,600	15,600
Car and transportation	42,500	40,000	12,000	12,000
Satellite images	100,000	15,600	50,000	65,000
Travel	10,000	15,000	18,000	20,000
Utilities	6,000	7,000	8,000	9,000
Communications	12,804	14,000	16,000	18,000
Sundries	4,446	6,000	7,000	8,000
Furniture and Office Supplies	5,000	30,000	7,000	8,000
Publications	30,900	20,000	20,000	30,000
Software	6,150	10,000	12,000	12,000
Workshops	4,000	6,000	8,000	10,000
Auditing	6,435	6,750	7,000	7,350
Computers upgrade	8,000	10,000	10,000	10,000
Miscellaneous	10,000	12,000	14,000	16,000
Total	542,935	557,950	572,100	626,825

