



Private sector horticultural development transition project



QUARTERLY PROGRESS REPORT No 2

Implementing agency: AFGHANISTAN NATIONAL HORTICULTURE DEVELOPMENT ORGANIZATION
(ANHDO)

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Reporting period: November & December 2012

Summary:

In the fourth quarter the following activities done by ANHDO team: Badambagh, Kabul Ag-Fair, in efforts to promote agriculture and attract investments in the agriculture sector, Traders and businessmen from some countries have visited the fair. ANHDO made a citrus field day in Jalalabad on 18 November and 35 members of east region NGAs, Faculty of agriculture, partner NGOs and citrus promotion group members attended the field day. ANHDO provide citrus workshop from 26 to 27 Nov, in Jalalabad and 52 people's from NGAs, citrus promotion group, faculty of agriculture, MAIL and DAIL invited for the workshop.

From 19 to 21 November ANHDO hold workshop of planning of 2013 and all ANHDO member presented their plan and budget for coming year 2013. Kunduz PHD centre building work is ongoing and construction of the top of roofing form work at main building is in progress. In all PHD centre's data collection, adaptation research, Finalized the breeding program list, plantation the almond and apricot seed gained from cross pollination trial in 2011-2012. Preparation of the Certificates for University students, training of stone fruit pollination for MADERA Field Officers, Worked on distinguishing of apricot varieties through descriptor data, collecting and merging the fruits ripping data from PHDCs.

In all PHDCs weeds control, Irrigation, nursery management, IPM and trainings is done by field staffs, stone fruit pruning of national collections, demonstration orchards is completed, all centre's used treatment of urea mixture to hygiene and sanitation of trees and eliminate reproductive organs (spores and eggs) of pests, applying Bordeaux mixture after pruning of trees in NCs and DOs completed in all centre's, land preparation, of new plantation of 2013 is completed and stone and Pome fruit nurseries under completion.

Field technical staffs collected 749 samples of citrus for testing of Citrus tristeza virus (CTV) only positive (Infected with CTV) samples 115 was positive. Attending meeting of Darulaman research station, technical layout and plantation plan, horticulture working group meetings, two citrus promotion group meetings, meeting with Mazar and Kunduz directors, AAIDO meeting to select the new 21 lines of almond and presentation of ANHDO activities to DAIL directors of 6 provinces. ANHDO, head of horticulture provide training of stone fruit to staffs of Mazar and Kunduz one day in each centre and one day for 40 participants of NGAs, MAIL staffs and faculty of agriculture of Balkh in Dehdadi PHD centre.

Implementation of the planned activities:

No	Activity	Achievements, Facts and Figures
1	Management Activities	<p>Preparation to Kabul Ag-Fair In efforts to promote agriculture and attract investments in the agriculture sector, Ministry of Agriculture, Irrigation and Livestock kicked off on first day an annual agriculture exhibition in Badam Bagh Kabul, Afghanistan. Second Vice President Mohammad Karim Khalili was among the first visitors to the Kabul International Agriculture Fair. Traders and businessmen from some countries have visited the fair. Some 160 local and a few foreign companies, including importers, exporters, wholesalers, producers and service providers, have displayed their products in the fair. And ANHDO show fresh fruits like citrus, Persimmon pomegranate, Grape and apple from PHDCs, almonds of NCs and dry fruit from the Kabul Market, agriculture minister, deputy's minister and we have more than 3000 visitors. The all activities of ANHDO presented by the team to visitors aware fruit show was vary intrusting and citrus, pomegranate and persimmon was interesting for minister and all visitors.</p> <p>On 18 November PHDP Team leader and head of horticulture attended citrus field day in Jalalabad and 35 Members of east region NGAs, Faculty of agriculture, partner NGOs and from citrus promotion group members attended the field day.</p> <p>From 26–27 November ANHDO provide citrus workshop in Jalalabad and 52 people's from NGAs, citrus promotion group, faculty of agriculture, MAIL and DAIL invited for the workshop.</p> <p>From 19 to 21 November ANHDO hold workshop of planning of 2013 and all ANHDO member presented their plan and budget for all 2013 working year and director of horticulture was involve in the workshop.</p> <p>Kunduz PHD centre building work is ongoing and construction of top of the roofing form work at main building is in progress.</p> <p>Field technical staffs of Idea New, NVDA, Roots of Peace and MADERA collected 749 samples of citrus for testing of Citrus tristeza virus (CTV) only positive (Infected with CTV) samples 115 was positive and the others 634 is Negative reported appositive.</p> <p>On second and third of December MAIL minster invite the project who work in horticulture for rehabilitation with changing the name of Darulaman research station to Botanical garden, greenhouses and green park, ANHDO attended and get same technical responsibility to provide information about the layout the area, available fruit species and varieties in Afghanistan.</p> <p>ANHDO completed Kapisa and Surobi survey questioners, selection of survey team, training of survey team, setup to the place and up to end of December 60% of survey is completed the remaining 40% will be completed in the month of January 2013.</p> <p>From 9 and 12 of December ANHDO, head of horticulture meet Agriculture directors of Balkh and Kunduz; provide information about the transition of PHDCs and construction of PHDCs of Balkh and Kunduz to them, in the same time have a meeting of ANHDO, ANNGO and chairman of ANNGO on technical problem of Imam Qutaba with the Imam Qutaba NGA responsible person.</p> <p>On 5 and 18 December hold two meetings with horticulture working group on horticulture 5 years strategy to invite the horticulture stock holders in the month of March 2013.</p> <p>From 9 to 12 December ANHDO, head of horticulture visited Dehdadi and Kunduz</p>

		<p>PHD centres and provide training of stone fruit winter pruning to staffs, one day for each centre and one day for 40 participants of NGAs, MAIL staffs and faculty of agriculture of Balkh in Dehdadi PHD centre.</p> <p>In this quarter, ANHDO hold two Citrus promotion group meetings in Kabul and in Jalalabad with the agenda of MSNs in east region and for NVDA to provide bud woods for the nurseries provide volkamarina seed for NGAs and NVDA and collection of samples of citrus for test of CTV in the orchards of NVDA.</p> <p>Hold a meeting with AAIDO to evaluate 21 lines of almond and 10 lines has been selected as new varieties by all participants.</p> <p>On 23 December ANHDO presented the contract between MAIL and ANHDO to agriculture directors of 6 Provinces.</p>
2	Adaptation Research	<p>Evaluation of 90 % of the seeds gained from progenies. From 325 samples of the collected seeds we chose 21 of them, in first week of Nov we have invited AAIDO traders to evaluate the selected seed for next terms and recording of the results collected from the seed evaluation from progenies and evaluation has been done by the AAIDO traders on 21 lines of almond and 10 lines have been selected as new varieties. So the new seed will be planted as new Demonstration orchard at Kabul PHDC. Participate in the first ANHDO staff coordination meeting and present the outcomes of the results gained in 2012 and presenting the A.R trials plan for 2013.</p> <p>Updating 50 % of national list of varieties, with help of Mr. Khalil Shirzad IT officer tried to update National list of varieties according to updates of National Collection by Mariella and Noor, the national list was compared.</p> <p>Evaluation of collected off spring's seeds, the seed from result of crossing of almond pollination in 2008 was soon in Kabul. The Off springs produced fruit for the first time. Evaluation was conducted to find out and select the best seeds for further research purposes.</p> <p>Evaluation and comparison of 100 % of almond samples of ex-situ with samples of in-situ tree. The almond seeds which was collected from Mazar and Kunduz PHD centres was compared with the seeds collected from original tree from private orchard. Also the almond samples of both centres were compared among them to find out any mistakes.</p> <p>Finalized the breeding program list, and marked all those threes which have to be pulling out. Sowing the almond and apricot seed gained from cross pollination trial in 2011-2012. An Preparation of the Certificates for University students worked as interns on almond and apricot Pollination trials and worked on UPOV characters of the apple, almond, peach, pear, apricot, grape, pomegranate and etc. Provide training of stone fruit pollination for MADERA Field Officers at Jalalabad PHDC.</p> <p>Worked on distinguishing of apricot varieties through descriptor data In December 2012, a start has been made on the use of the characters to differentiate the varieties and place the varieties into the correct groups, where applicable. A start was made by comparing varieties within the Amiri group of apricots, as this is a very recognisable and important group with 15 accessions.</p> <p>Meeting with Greg regarding the committee for renaming of duplicates or miss named varieties in NCs. During the discussion we concluded that after finding out the miss names and duplicated varieties a committee consists of Curator of National Collections, Database Manager and related field horticulturist to rename the accessions.</p> <p>Searched on how ripping time should be checked with priority varieties, This is particularly important for the fresh market types of fruit, where the aim is to provide advice on seasonal harvest of a number of varieties</p>

		<p>Worked on description of varieties budget of PHDCs, Worked on preparation of description training plan and budget for 2013</p> <p>Collecting and merging the fruits ripping data from PHDCs, reading monthly report</p> <p>Participate in staff meeting and worked on post harvest plans,</p> <p>Participate in staff meeting and worked on post harvest plans searched to find postharvest indexes for fruit trees.</p>
3	PHDC Kabul	<p>National Collection</p> <p>Weeds control and pruning of Apricot NC has been finished, preparing land, laying out and digging holes of pear NC on seedling rootstock.</p> <p>Collecting pruning woods.</p> <p>Cleaning irrigation canals, repairing visiting paths.</p> <p>Internal Demonstrations</p> <p>Weeds control and pruning of peach demonstration orchard.</p> <p>Pruning of plum and almond DOs have has been finished.</p> <p>Preparing land, layout and digging holes for the extension of Gesila5 cherry DO.</p> <p>Collecting pruning woods.</p> <p>Cleaning irrigation canals, repairing visiting paths.</p> <p>Nursery</p> <p>Establishment of the fallowing Pome and stone fruit nurseries;</p> <ol style="list-style-type: none"> 1. Almond seedling nursery. 2. Peach seedling nursery. 3. Pear seedling nursery. 4. Apple seedling nursery. <p>We have establish and sawed the seeds of all above mentioned species nursery to be ready for budding of best varieties of NCs and DOs in September 2013 to provide mother trees for MSNs in 2015, as well as we stratified the seeds of all those species in case if some of the seeds did not germinated will, we will have as reserve for sawing in March or April of 2013 in the gaps.</p> <p>Updating Pome fruit colonial rootstocks stool beds for distribution of spring 2013.</p> <p>During this quarter we have been collected and stratified 1700 cuttings of Mayrobalan29C, 1200 cuttings of GF677 and 2000 cuttings of Mahaleb SL64 which will be planted in the field in March 2013 to provide rootstocks for stone fruits, as well as we keep 10 cutting mother trees of Mayrobalan29C to provide cuttings to NGAs.</p> <p>Almond and apricot breeding program:</p> <p>After collected and evaluation of same best almond and apricot progenies from the crossings of 2012 we have sawed the seed of those progenies in the field as nursery which will be the new breeding plants for release of new varieties in the future, which will be transplanted for 2014 to the evaluation plot.</p> <p>Plant protection</p> <p>Pest & diseases incidence and treatments made</p> <p>During this month we don't face with any kind of pest and disease problem in Badam Bagh farm on national collections and demonstration orchards.</p> <p>Interaction, collaboration, partnership with other NGOs working in horticulture</p> <p>Technical Video by MADERA:</p>

		<p>During this month field staff have facilitate and provided technical information regarding our field in PHDC to MADERA staff for making a technical video in the field to the farmers of Behsood district of Wardak province.</p> <p>Field staff had 2 informal training or field visit of National Agriculture Education Collage (NAEK) students from Badam Bagh PHDC activities, with total number of participants 70 students.</p>
4	PHDC Mazar	<p>National collection Adequate irrigation and weeding 100% Making circles around the tree to establish bitter irrigation system, Cleaning irrigation canals of apricot and almond NC. Pruning of apricot national collection, the total area of 9.8 Jeribs 100% completed.</p> <p>Internal Demonstrations Proper irrigation of plum, peach, pomegranate, grape and pear demonstration orchards and weeding is completed. Using of green manure with soil, plowing and experiments of Soil fertility 100% done in grape demonstration orchard. Treatment with 5% Urea mixture when the plums leave was fallen 70%, General care. Irrigation in the icebound stage of plum, peach, pomegranate, grape, pear and apple demonstration orchards. Using of green manure with soil, plowing and experiments of Soil fertility 100% done in grape demonstration orchard.</p> <p>Nursery : Proper irrigation of all almond and stone fruit colonel rootstock nurseries and proper weeding is done 100%. General care of the Almond nursery which established in 2012, also we prepared 450 m² newly land for almond nursery.</p> <p>Plant protection Pest diseases incidence and treatments made, treatment of NC and DO with Urea mixture to hygiene and sanitation of trees and eliminate reproductive organs (spores and eggs) of pests. Prepare and Treatment of Bordeaux paint with the content of:</p> <ol style="list-style-type: none"> 1. 1 kg copper sulfate 2. 2 KG hydrated lime 3. 3 lit mustards oil <p>Against of gummosis, wound, and Pruning cut on apricot, plum and peach trees.</p> <p>Interaction, collaboration, partnership with other NGOs working in horticulture Field horticulturist visited Badam Bagh PHDC and Jalalabad PHDC and get more idea in the field horticulture research and visited the NC and DO in these centers and Familiar with PHDC activities and participated to the fallowing meetings:</p> <ul style="list-style-type: none"> • Participate Citrus promotion group meeting. • participate in Agriculture sector Monthly meeting • participate in DPCP monthly meeting • participate in ANHDO planning and Budget workshop in the central • Visited chair person of Ommul Belad Balkh NGA. • Visited AKF representative in Balkh who asks for certified and ornamental sapling and I introduced him to ANGs located in Balkh, Khulm and Aybak.

		<p>Participation in Agriculture sector meeting and given information about ANHDO and ANGO activities and distribute the catalogue which published by these organization. During the meeting I addressed the AGA for who need for certified sapling. Conducting training workshop regard to orchard management, the participant was 35 people who include the NGA members, agriculture faculty student, DAIL extension worker and orchard owners. The workshop performed theoretically in training room and practical in DO. Distributions of certified label for NGAs. Given information to the teacher of faculty of Agriculture during the visiting of them in Mazar PHDC.</p>
5	PHDC Kunduz	<p>National collection Improving the irrigation system, weeds control and urea spray on all area of almond, pear and apple national collections. Pruning of almond national collection, total area 8.05 jerks 100 % completed Treatment with 20% Urea mixture when the plums leave was fallen 70% on pear, apple and almond</p> <p>Demonstration orchards Improving the irrigation system urea spray and Pruning of peach, plum, almond rootstock trail and peach rootstock trail demonstration orchards successfully finished. Pruning of peach and plum total area 2.2 Jeribs Treatment with 20% Urea mixture when the plums leave was fallen 70%</p> <p>Nursery Proper irrigation, weeds control and pruning is done. Treatment with 20% Urea mixture when the plums leave was fallen 70%</p> <p>Plant protection Gummosis survey in stone fruit and nut fruit.</p>
6	PHDC Jalalabad	<p>National collection All routine activities such as irrigation, weeding and others have been done in the national collection of pomegranate. Almost all the pomegranate fruit got red color after passing the month of October. The reason is the cold nights in this month. The fruit characterization of pomegranate completed and hard copies of the forms sent to Kabul. During the characterization we have taken many pictures of pomegranate in different periods of process. And all he pictures have been organized in good way and we will send the pictures to main office very soon. The national collection of citrus will be extended with around 20 varieties of citrus next spring 2013. 9 varieties have been imported from Italy and the remaining are the local commercial varieties. We have two citrus nurseries one in the PHDC-JAL and the other one is a private nursery in Kunar. Luckily we will have enough saplings of each variety to include them in the national collecting of citrus. Persimmon: Next spring 2013 we will establish the official national collection of persimmon varieties. We have saplings in two places; in Kunar in a private nursery and in our center. So we will have enough saplings of each variety to establish the national collection of persimmon. This year we got some fruit from the collection of persimmon and we got some interesting varieties there. All routine tasks have been done correctly and on time such as irrigation, Bud wood distribution in citrus net house. All routine tasks have been done properly. The peanut cover crop harvested. And vegetables sowed as intercrop in date palm. Loquat: All routine tasks, pest and disease management have been done on time. We take off the inflorescence from these small loquat plants. If we leave all the flowers in</p>

the plants the plant will suffer and become very weak. So in loquat and other plants we don't allow them to bear fruit on the first two years.
In fig NC, all routine tasks have been done on time. The irrigation, weeding, and cleaning the pathway and irrigation channels.
Irrigation and irrigation canal cleaning, weeding by hand and machine, applying manure in all national collections.

Conducting commercial evaluation of citrus.

Citrus fruit has been sent to Kabul office for further distribution.

We have harvested Volkamer fruit and extract the seeds and sow them.

Pomegranate description photos have been compiled, organized in folders and ready for sending to Kabul office.

Demonstration orchards

All routine activities related to demonstration plots have been done on time such as irrigation, weeding, manure application, pest management in all demonstration orchard like stone fruits, grape, loquat, and pomegranate. We have planted saffron as intercrop in loquat DO. The planting materials were provided by the horticulture department of DAIL. The aim is to show farmers during trainings and field days the intercropping and we will evaluate the adaptation of saffron to this hot weather of Jalalabad. The evaluation of the citrus rootstocks has been done together by the University students. The evaluation is conducted in the format sent from main office. The chicken manure is applied to this rootstock DO.

Nursery

Weeding, irrigation, pest control in citrus nursery after-graft control of suckers re-grafting those failed grafts that were done last quarter.

Inventory and compiling of nurseries has been done.

Plant protection

Using of laser 1.2 cc per liter for control of aphids and different tiny insects.

We have controlled aphids in the citrus rootstock trial demonstration orchard by using Confidor 1.5cc/ liter water.

On farm water management

To manage the water in the farm we have install water stoppers and the concrete tunnels. With this system we managed to control most of the water that was lost in the previous system with no stoppers.

Guiding farmers

Some orchard owners came to visit us for solving plant protection issues. These farmers faced problems in controlling insects. The farmers have been guided.

Bud wood distribution

We have given a limited number of bud woods to the University of Nangarhar and they graft them in the agriculture research farm of the agriculture faculty. Citrus Bud wood given to Laghman NGA.

Interaction, collaboration, partnership with other NGOs working in horticulture

Many students come to PHDC-JAL to pick up materials for preparing their seminars/assignments. Almost 20 topics picked from our center by students. The center is a focal point for students to seek knowledge. The director of Nangarhar DAIL together with his team visited the center. Khorshaid TV reporters were introduced by DAIL to visit the farm and do a short interview in the PHDC-Jalalabad. Two farmers visited the center for seeking advice on orchard establishment.

		<p>7 students from Nangarhar Agriculture Institute came to farm for seeking some technical information.</p> <p>Two farmers came to farm to see the citrus national collection.</p> <p>Four farmers came from Gul Karim citrus orchard to see the result of citrus national collection and to seek advice about the new varieties of citrus.</p> <p>FH attended the pest identification workshop organized by MAIL in Sheshambagh.</p> <p>The citrus workshop program was recorded by Nangarhar TV and they have published the program this month many times. And due to these TV programs we have many visitors.</p> <p>An orchard owner came from Behsud district to visit the PHDC in particular the citrus national collection.</p> <p>The FH attended the citrus promotion group meeting in Kabul.</p> <p>The FH attended the TWG meeting organised by Nangarhar DAIL and took some citrus fruit. After the TWG meeting by suggestion of the Mr. Safi DAIL director we took the fruit to the Governor house and the whole team of Governor house admire the job done.</p> <p>Nangarhar TV team (5 people) came to visit the farm in particular the national collection of citrus.</p> <p>Five employees of DAIL came to visit the farm in particular the national collection of citrus.</p> <p>Mr. Loqmani from EU came to visit the farm unofficially and he was very happy seeing these achievements.</p> <p>NGAs sapling labels submitted to Mr. Rahim the area facilitator of MADERA for East.</p> <p>The Nangarhar citrus MSN owner came to farm with three fruit growers.</p> <p>Three other orchard growers came to visit the citrus in NC and net house. They all wanted to establish citrus orchards.</p> <p>6 IDEA-NEW staff came to farm to visit the national collection of citrus and recorded the best and recommended varieties.</p> <p>We got seedling trays and compost from IDEA-NEW as donation to grow the Volkamer seeds in.</p> <p>Two nursery growers visited the farm in particular the national collection of citrus.</p> <p>PHDP/ANNGO team of Kabul organized training for MADERA and MC field officers in PHDC-JAL.</p> <p>Two people from Nangarhar University visited the farm.</p> <p>A student of faculty joined the FOs training in PHDC-JAL.</p> <p>Five other people including three citrus orchard growers visited the farm and seek for advices.</p> <p>Habib Hesam (the famous person company owner of chicken and meat) planted a 3 Jeribs citrus orchard from ANNGO certified saplings. He visited the farm and wanted to establish an orchard of 20 Jeribs from the recommended varieties of PHDC-JAL citrus national collection.</p>
7	PHDC Herat	National collection

	<p>Remove effected leaves that my contain insects or diseases of all species. Plugging alfalfa intercrop to soil for increasing soil fertility of grape. Start pruning of peaches with open centre system. Paint the trunk of the peach trees and the lower branches using a lime, Copper Sulphate and water. Continue regular watering as long as leaves are green. Following importing improve varieties from USA.</p> <p>Grape hardwood cutting collection to check vines for signs and symptoms of virus, Pruning of peaches and nectarine with Open Center system completed. Applying Bordeaux mixture after pruning of trees completed.</p> <p>Pruning of European plums with Central Leader and Japanese system with Open Center systems completed. Applling Bordeaux mixture after pruning of trees completed.</p> <p>Contact with USAID for selection of varieties for importing from USA to graft rootstocks in May 2013.</p> <p>Demonstration orchards</p> <p>Plugging intercrop to soil for increasing soil fertility of apple rootstock trail. Start pruning of peaches, plum and almond with open centre and central leader pruning system. Plugging cover crop intercrop to soil for increasing soil fertility. Paint the trunk of the peach trees and the lower branches using a lime, Copper Sulphate and water. Plugging cover crop intercrop to soil for increasing soil fertility. Remove fallen leaves that my contain insects or diseases. Plugging cover crop intercrop to soil for increasing soil fertility. Remove effected leaves that my contain insects or diseases. Monitoring form plants of apple rootstock trails.</p> <p>Nursery</p> <p>Continue regular watering as long as leaves are green, weeding and maintenance of peach nursery 2010, peach nursery 2012 and grape nursery.</p> <p>Update the nursery record book of grape and peach.</p> <p>Plant protection</p> <p>On 25 November Mites and aphids attacked to peach national collection and with using of Bordeaux paste prepared by adding 1 kg Copper Sulfate, 1 kg Lime and 10 liter water and Bordeaux paste mainly used for tree wound dressings to prevent fungal pathogen attacks. Bordeaux painted in trunk section of trees.</p> <p>Applying Bordeaux mixture after pruning of trees in NCs and DOs completed. For best result: 1kg Copper Sulphate, 2 kg Lime and 3.5 liter Oil</p> <p>Applying Bordeaux paste and painting trunk section of trees in NCs and DOs: For best result: 1kg Copper Sulphate, 1kg Lime and 10 liter oil</p> <p>Interaction, collaboration, partnership with other NGOs working in horticulture</p> <p>During 3th November training room of PHDC used by AAEP project for two days training program about saffron cultivation for DAIL staff and 30 people participated in training room.</p> <p>During 12 November training room of PHDC used by JICA project one day training program about cultivation of Saffron for DAIL staff and 20 people participated in training room.</p> <p>Participate in ANHDO Coordination meeting to present Herat working plan 2013</p> <p>Organizing training program about pruning of stone fruit in PHDC. 34 people from DAIL, University, NGA, NGOs participated in training program. Agriculture Rural Development Sector Meeting, Introduction of ANHDO program for NGOs and government.</p>
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		<p>Afghanistan Agricultural Extension Project (AAEP), ANHDO organized stone fruit training program for DAIL extension staffs from district (30 people) in farm and AAEP project financed the training program. Herat University, Agriculture Faculty, ANHDO organized stone fruit training program for DAIL extension staffs from district (40 people) in farm and University financed the training program. Mr. Sam Jaraiedi, Chemonics project, Introduction of ANHDO program. Discussion about opportunities and challenges in horticulture program in western part of Afghanistan for investment. Mr. Shafiullah Zahid, Field Officer, CHA, Delivery of ANNGO label and discussion about certification scheme of saplings. HLP Organization, providing information about selection of almond varieties and planting instruction. Mr. Prof. Ghulam Rasul Samdi, Kabul University, Review of work in farm and pruning system in grape collection. ACBAR Coordination meeting, Introduction of ANHDO program. Mr. Bruce J. Bailey, USAID Regional Agricultural Officer, Regional Command West, Discussion about selection and importing pistachio bud wood from USA.</p>
	PHDC Kandahar	<p>National collection The fruit UPOV assessment of (13 clone of Pomegranate national collection was 100 % completed, inventory of peach, plum, Pomegranate, Fig and grape NCs were done and all 5 national collections were regular irrigated, weeding was done and summary sheets of UPOV assessed 108 clone of grape, 49 clone of peach, 22 clone of Plum 45 clone of pomegranate and 9 clones of Fig fruit was prepared. The peach and plum national collections trees were pruned and Bordeaux mixture solution was applied for to prevent some fungus disease. And the excess materials were removed from the farm area for to control some disease and pest infection in the future and main irrigation canal of pomegranate national collection was cleaned.</p> <p>Demonstration orchards Weeding, regular irrigation and inventory of grape, pomegranate, almond and persimmon demonstration orchards were done and no any problem in the demonstration orchards and grape demonstration orchard irrigation canal was cleaned. All the excess materials were removed from all national collections and main irrigation canal of grape demonstration orchard was cleaned.</p> <p>Nursery Regular irrigated and weeding was done in the grape nursery and the nursery is ready for spring plantation 2013. General care of our grape nursery was done.</p> <p>Plant protection Caltex was applied against gummosis in peach national collection and urea solution was applied in all 5 national collections. The Bordeaux mixture solution was applied in all national collections as well as in grape, pomegranate and almond demonstration orchards.</p> <p>Interaction, collaboration, partnership with other NGOs working in horticulture On date 11.11.2012 taken part in provincial level agriculture meeting, and agriculture director requested from all participants based on their offices possibilities to help them in construction 40 Jerib land surrounding wall of Kokaran farm as well as a building for the forestry department including the present agriculture directorate building surrounding wall and payment of the comical for plants pest and disease</p>

	<p>control.</p> <p>On date 22.11. 2012 The agriculture Minister with a came to our office and he received information about the PHDC Kandahar activities from 2007 up to date which was posted in a board in our office and the result he was very happy for the PHDP project and activities.</p> <p>The PHDC Kandahar draft work plan and budget for year 2013 was prepared.</p> <p>Token part in 3 days staff workshop.</p> <p>Token part in Provincial level agriculture sector meeting and the participants were informed about ANHDO activities and also they received information about the PHDC Kandahar working plan for year 2013.</p> <p>And the agriculture director requested from all participants to help them in construction of the surrounding walls of the directorate recently built building as well as part of the Kokaran farm which is under theirs activates.</p> <p>On date 30.12.2012 a training by the topic of grape vine pruning system was organized in which 8 people from DAIL, 5 students from agriculture faculty, 15 people from nursery grower association and 2 people from partner NGO were participated.</p>
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