

School Gardens Project 2

gives

phase

one

Rotary Club of Granada.**Narrative technical report of activities carried out from September 1, 2018 to November 30, 2018.*****School Gardens Project 2***

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Schools benefited:**Mercedes Mondragón****José de la Cruz Mena****Juan Diego Rural Public Nucleus****Epiphany Rural Public Nucleus****GRANADA NICARAGUA, DECEMBER 2018****School Gardens Project 2**

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Summary

Phase II of the Huertos Project officially began in September 2018

Scholars under the supervision and administration of *the Rotary Club of Granada* in four schools in the municipality of Granada-Nicaragua, two schools in the area urban , **Mercedes Mondragón School** and **José de la Cruz Mena** . And two in the rural area in the rural public schools **Epifanía** in the El Hormigón y **Juan community Diego** in the community of Tepeyac.

Until the dates the most relevant activities are the following:

- ✓ Construction of school gardens.
- ✓ Facilitation of 7 methodological designs in 4 schools: Among the most important achievements

Significant 331 schoolchildren trained during the first quarter are identified of the project in the four schools in the last quarter of 2018.

- ✓ Establishment of school gardens.
- ✓ Meeting with parents.
- ✓ Construction of micro-tunnels.

Established 7 seedbeds in two schools Mercedes Mondragón and Epifanía (Tomato, Rábano, Cucumber, Chiltoma, Eggplant, Pipián), with students of sixth grade, seventh and eighth grade , for being short cycle species and easy to handle. Likewise, a plant nursery was installed of cocoa of the variety popularly known as *Yellow Cocoa or Stranger* (*Theombroma cacao*) , which will be used in the future for experimentation in the center Epiphany school.

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1. Introduction

GENERAL INFORMATION PROJECT HUERTO ESCOLARES GRANADA

Project Name: School Gardens Project Granada Phase II

Funded by: Rotary International, Cheyenne Club, Laurie Sunrise Beach, Laramie, Fanwood Scotch Plains.

Administered and supervised: Rotary Club of Granada.

Duration: 12 months.

Location: Granada-Nicaragua, Municipality.

The project is located in four schools centers of the municipality of Granada-Nicaragua, two schools in the urban area , **Mercedes Mondragón School** and **José of the Mena Cross** . And two in the rural area in the rural public school centers **Epifania** in the El Hormigon community and **Juan Diego** in the Tepeyac community.

Project general description:

The Project is aimed at developing cognitive abilities of students of fifth, sixth grade of primary education and seventh and eighth grade of education secondary school in the centers involved in the project with the objective of producing vegetables and

vegetables in schools to improve the quality and variety of the diet of the school

Also strengthen the technical capacity of teachers, parents and directors and other school staff, on how to produce healthy foods from a friendly way with the environment.

Included is the development of the study plan and the evaluation system for the gardens school

The most outstanding students will receive scholarships to establish gardens in their homes, products of these should be contributed to the diet of the homes of schoolchildren and their families

17 methodological designs will be provided in total which are based on the plan of **Comprehensive School Nutrition Program-PINE** . The project is totally coherent with the public policy / priority of MINED.

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2. Development

2.1. Activities carried out in the last quarter of 2018:

In the quarter from September 1 to November 30, 2018 the following activities for the Project **Huertos Escolares Segunda Fase** :

Infrastructure construction of school gardens

Two infrastructures were built in two schools: **Epifanía and Juan Diego** (see in annex 1) for the installation of school gardens and a classroom for the facilitation of the training in the respective topics of the methodological designs, in which were assigned a blackboard and 35 desks respectively, as well as tools and seeds.

Establishment of school gardens:

Among the initial tasks for the establishment of school gardens were purchased the following seeds:

Beetroot, chiltoma, cabbage, tomato, yellow onion, radish, zucchini, cucumber, watermelon, lettuce.

As part of the preparation of the area and soil of the school gardens, leveling, cleaning and preparation of the land within the area of the garden, pruning and thinning of trees surrounding the area of the orchard in order to open the canopy for the management of

shade in order to make use of the area for crops that require more space in the respective schools where there is availability. Likewise, the substrate preparation which would be used in the seedbeds (See Annex 2).

Seven seedbeds were established in two Mercedes Mondragón and Epifanía schools of the following species Tomato, Radish, Cucumber, Chiltoma, Eggplant, Pipian, in school gardens with Sixth Grade, Seventh and Eighth Grade students . It should be noted that these were chosen for being short cycle species and easy to handle. Likewise, a plant nursery was installed of cocoa of the variety popularly known as *Yellow Cocoa or Stranger* (*Theombroma cacao*) , which will be used in the future for experimentation in the center Epiphany school.

Facilitation of methodological designs

The methodological designs were elaborated based on the **Integral Program of School Nutrition-PINE** , being totally attached to the public education policy of the Ministry of Education MINED.

From September to November, 7 methodological designs of a total of 17 were provided proposed in the "Methodological **Guide : Methodological Guide and Curriculum on Agriculture**

Sustainable, Food Security and Nutrition for the Establishment of Gardens "

(see table 1) thus achieving the training of 331 school children in the four schools in first quarter of the project, of the 500 that were set as the total goal for the duration

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total of the project. Table 2 shows monthly average attendance results by School center.

Table 1 Topics provided during the last quarter of 2018.

N

or

General theme Month

School center

Topics addressed

Y

shape

of

evaluation

1 Environment and natural resources

September Epiphany / Juan Diego

Mercedes

Mondragón /

José de la Cruz Mena

Themes: Concept,

Problematic

Y

Solutions

Shape
of
evaluation:
Qualitative
2 Climate Change September Epifanía / Juan Diego
Mercedes
Mondragón /
José de la Cruz Mena
Thematic
Specific:
Concept,
Problematic
Y

Adaptation.
Shape
of
evaluation:
Qualitative
3 Agriculture
sustainable
September Epiphany / Juan Diego
Mercedes
Mondragón /
José de la Cruz Mena
Thematic
Specific:
Concept,
Beginning,
Components
Y

Practices.
Shape
of
evaluation:
Qualitative
4 Risk Management September Epifanía / Juan Diego
Mercedes
Mondragón /
José de la Cruz Mena
Thematic
Specific:
Concept,
Threats,
Vulnerability and
Risk.
Shape

of
evaluation:
Qualitative
5 Security
Y
Sovereignty
Food
Y
nutritional
October
Epiphany / Juan Diego
Mercedes
Mondragón /
José de la Cruz Mena
Thematic
Specific: Marco
general of the
Security
Y
sovereignty

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food

Y

nutritional,

Programs

in

Nicaragua

Y

Benefits of

Gardens for Health and

Nutrition.

Shape

of

evaluation:

Qualitative

6 Comprehensive Program

of

Nutrition

Escolar-PINE-

MINED

October

Epiphany / Juan Diego
Mercedes
Mondragón /
José de la Cruz Mena
Thematic
Specific:
general objective of
PINE program,
Components
Y
Activities
of the
PINE program.
Shape
of
evaluation:
Qualitative
7 What foods we
it is necessary to
improve the diet.
November Epiphany / Juan
Diego
Mercedes
Mondragón /
José de la Cruz Mena
information
timely
Y
useful orientations
help the
families
for
to get better
the
practices
of
feeding
Y
nutrition for a
good growth and
development of
childhood
Shape
of
evaluation:
Qualitative

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Table 2 Average monthly attendance per school center

Months

Grade

Total

of

students

Epiphany

Center

School

Epiphany

Assistance

average

Total

Juan students

Diego

Center

School

Juan

Diego

Assistance

average

Total

Students

Mercedes

Mondragon

School center

Mercedes

Mondragón

Assistance

average

Total

Students

José from the

Cruz Mena

School center

José from the

Cruz Mena

Assistance

average.

September

Fifth
25
twenty-one

Sixth
twenty
16

Seventh
29
22

Eighth
17
14

October

Fifth
25

twenty
twenty
fifteen

35 (Section A)

27 (Section A)

33 (Section A) 30 (Section A)

Fifth B

27

twenty-one

38

28

Sixth

twenty

fifteen

twenty

17

27

22

Sixth C

24

22

Seventh

29

twenty-one

18

fifteen

Eighth

17

fifteen

eleven

eleven

Nineth

5

5

Tenth

3

two

November

Fifth

25

twenty

twenty

17

35 (Section A)

26 (Section A)

33 (section A)

28 (Section A)

Fifth B

27

22

38

35

Sixth

twenty

16

twenty

19

Sixth C

24

22

seventh

29

twenty

17

16

Eighth

17

12

eleven

eleven

Nineth

5

5

Tenth

3

one

Total

of
students.

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Meeting with parents

In October, the meeting with parents in the centers was organized school, under the coordination of the board of directors of *Rotary Club of Granada*, Directors of schools and the technical team of the project. At the meeting, He approached the parents to inform them of the project's objectives. There was a presence of 149 parents of whom 46 showed interest in belonging to the school gardens committee, be part of the parents trained in family farming, for the future establishment of patio gardens, a component that is considered one of the Main axes of the project. (See Annex 4)

Construction of micro-tunnels

The construction of 4 micro tunnels were built, which were built for the protection of vegetable plants from their first days of development until the stage of flowering, in order to prevent the transmission of diseases such as viruses that are transmitted by the whitefly, allowing a better quality in the harvests. (Watch Annex 5)

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3. Conclusions

The most significant advances of the project are:

- ✓ 331 students trained.
- ✓ Established four school gardens which will be ready to produce and provide food to the snack of school children in the 4 centers in the month February
- ✓ Four micro tunnels built in the 4 schools.
- ✓ As a goal, it is proposed to encourage school attendance and scholarships the integration of parents to activities.