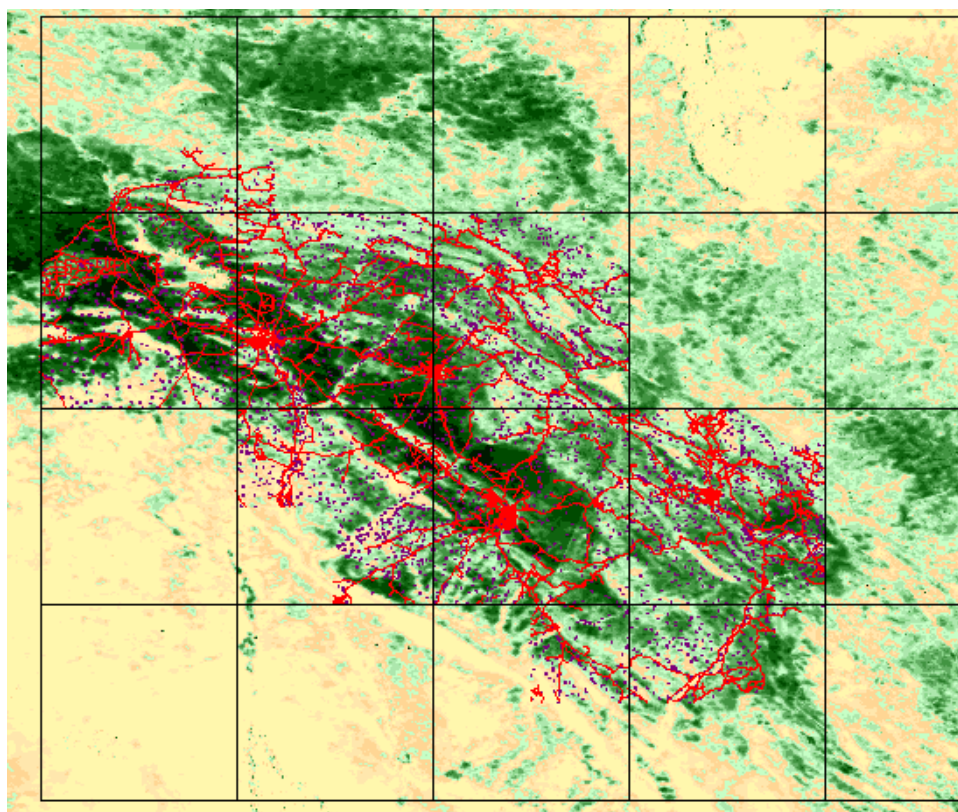


UNITED NATIONS CENTRE FOR HUMAN SETTLEMENTS (Habitat)
Settlements Rehabilitation Programme – Northern Iraq

Paolo Santacroce
Rural Area Development Senior Consultant
Duty Station: Erbil, Iraq

Back to Office Report

second mission (May 16th – June 9th, 2001)



Itinerary:
Venice\Wien\Amman 16.05.2001
Amman\Baghdad 16.05.2001
Baghdad\Erbil 18.05.2001
Erbil\ Suleimaniyah 20.05.2001
Suleimaniyah\Erbil 21.05.2001
Erbil\ Dohuk 22.05.2001
Dohuk\Erbil 24.05.2001
Erbil\Baghdad 07.06.2001
Baghdad\Amman 08.06.2001
Amman\Wien\Venice 09.06.2001

To: CTA and Planning and Programmes Manager, in Erbil
HHS Consultant, duty station
Habitat Head Office (Nairobi)

Erbil/Venice 09.06.2001

The remote sensing image on the cover - synthetically representing the area characterised by a biomass significant increase during the growing season - is extracted from the maps annexed to this BTO report

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Overall Objective of the Consultancy

65 working days

“To determine the socioeconomic structure, the vulnerability and the development potential of Northern Iraqi rural settlement.

The study is essential for developing socio-economic indicators related to Resettlement program and to support decisions in resources allocation in urban areas.

Particular emphasis shall be put on understanding the impact of WFP food provision program on rural settlement development patterns and on resettlement program”

Summary of Duties as in TOR

- 1. To produce a comprehensive study on all the significant factors affecting rural area life styles and habits, self-sustainability levels, population vulnerability and social needs. This study will be based on the collected information (satellite images and other information collected in the first phase) and on the data yielded by the ongoing Settlement and Household Survey.***
- 2. To evaluate the current rural/urban exchange profiles and the way these are affected by the current food ration system.***
- 3. To coordinate the study activities with the surveys and studies that are carried on with other UN agencies (WFP, FAO, UNOHCI).***
- 4. To design a rural area monitoring system that will allow updating on the basis of annual and seasonable time scheduling the accounting system on resources/pressure balance.***
- 5. To evaluate the outcomes of the study with the aims and objectives of Habitat's mission in NI according to international agreements within the framework of the “Oil for Food” program.***

The consultancy was divided into two field periods (May and September 2001, for a total of 50 working days) and an additional period spent in Venice (15 working days) for analysing and interpreting data.

The present BTO Report makes reference to the activities/achievements related to the first field period.

Activities carried out and partial/provisional achievements

TOR's duty 1

To produce a comprehensive study on all the significant factors affecting rural area life styles and habits, self-sustainability levels, population vulnerability and social needs. This study will be based on the collected information (satellite images and other information collected in the first phase) and on the data yielded by the ongoing Settlement and Household Survey

BACKGROUND

During his previous mission (February/March, 2001) the Consultant

- collected, collated, revised and reaggregated into a **comprehensive Northern Iraqi rural area database** the most significant available information at Nahia (sub-district) level,
- produced a **first assessment on major pattern of farming activities** at Nahia level.

The availability of significant, but rather disorganised and not easily comparable, village databases [collected by other UN Agencies e/o NGOs] suggested the possibility, if and when consistently reorganized, of compiling **village profiles** in order to assist any rural [re]settlement activity.

Consequently the feasibility of matching the available databases was informally discussed at the end of the Consultant's first mission.

A matching test was conducted by the Consultant before coming back to Erbil. Because the results appeared meaningful (~ 70% of villages contained in the two most relevant [at least at the time being] databases matched), it was decided to implement it.

In the mean time, since then, the availability of village datasets is significantly increased. In particular the recent access to IKRP Village Database makes this objective more significant but at the same time more challenging.

At the same time it was confirmed the need of complementing survey/field information with remote sensing inputs.

The activities carried out during the present mission for both components (database and remote sensing component) are described here below.

A. MATCHING DIFFERENT DATABASES

It was decided to match, at village level, the following databases:

1. FAO Coordination Office for Northern Iraq, "**Village Statistics Survey for the Year 2000**", Erbil, 2000 (since now: **FAO99**)
2. UNICEF, "**MoRaD Survey Database**" (since now: **UNICEF97**)
3. Iraqi Kurdistan Research Programme, University of Durham, DFID, "**IKRP Multi-sectoral Village 2000 Survey**" (since now: **IKRP2000**)

The major problems hampering the implementation of the matching activities are mainly due to (only the most crucial reasons are listed):

- Several English spelling criteria are used for translating village names, in many cases different criteria are used in the same database. As a consequence only ~10% of village names perfectly matches and can be identified through simple computer implemented procedures [i.e. querying approaches].
- Identical or similar village names are frequently found; sometimes it happens in the same administrative areas.
- Because the three databases make reference to different years not necessary the villages are the same: there are abandoned villages, new villages, villages that in the meanwhile changed their names.
- The above problems are in many case complicated by the shift of NI internal administrative boundaries; and this fact can be rather critical, as in case that in the databases the belonging to the same administrative unit offers the only criteria for decision/validation.

As a consequence the following strategy has been defined:

1. To define the FAO99 village name list as the primary-key (offering more and probably "more reliable" information related to some key-words as defined in the TORs). The FAO99 file contains **4972 villages**.
2. To execute a first match with UNICEF97 (as it is already available in a recompiled form). This last file contain **4760 villages**.
3. To define and implement procedures for matching the results of the previous point 1 and 2 with IKRP2000 database, once ended its overall translation from Arabic. This file contains **4860 villages**.
4. Finally the **final three sources village database (3S_V)** will be georeferenced matching its village names with Latitude/Longitude information available from two GIS database:
 - FAO Mapinfo georeferenced village name list (since now: **FAO_LAT_LON**)
 - UNOPS MINA Mapinfo georeferenced list of village names¹ (since now: **LADE_LAT_LON**)

As, in spite of their better quality, the ONOPS layers are not available for the whole NI (and are not expected to be available is a short-middle term), georefencing procedure will be guided by FAO file and only in case of necessity by UNOPS file.

¹ A new "point LADA layer" has been compiled by the Consultant starting from the original "polygon LADA layer", as it was rather inconsistent.

The remaining (not matching) village records are saved in a “bin” database that will be “refished” in order to find “lost” villages.

ADOPTED MATCHING CRITERIA

Considering the difficulties deriving from phonetic criteria, data collection time-lag and boundary-change, and in order to assure a rather large number of matching villages, the following criteria have been adopted;

1. Automatic matching by Governorates (through query or sorting procedures guided by administrative criteria when District and sub-district links are available).
2. Phonetic criteria (when names translated from Sorani, Badini and Arabic), guided - when possible - by administrative criteria.
3. When similar names are found in the same administrative area, some dimensional comparison of the village population at the three dates (1997, 1999 and 2000) can be helpful.
4. Last but not least, local knowledge (particular in cases of villages partially or totally changing their names)

IMPLEMENTATION AND PARTIAL ACHIEVEMENTS

As it was decided to implement the matching procedure through local personal, the Consultant interviewed many surveyors already in the Habitat FO rosters in Suleimaniyah (May, 20-21st) and Dohuk (May 22-23rd)

Two suitable candidates were identified in Suleimaniyah and immediately they started the job. Only one suitable candidates was identified in Dohuk but his recruitment got an administrative stuck.

In the case of Erbil Governorate database the first two steps of the matching procedure (FAO99+UNICEF97) was carried by the Consultant assisted by the local Habitat Erbil Office personal.

As far as the achievements, the updated results are as follows:

| Governorate | FAO99-UNICEF97 matched villages | % of FAO99 villages |
|---------------------|--|----------------------------|
| ERBIL | 937 | 79.4 |
| SULEIMANIYAH | 1191* | 70.6* |
| DARBANIKHAN | 502* | 59.0* |
| DOHUK | still pending | still pending |
| updated 06.06.2001 | | |

The lower rate for Darbanikhan seems to be due to significant shifts of the administrative boundaries. We can expect that a “refishing” from the so called “bin database” [not matching villages at Governorate level] will significantly increase its percentage.

Consequently we can foreseen that, at the end of the day, the final three sources village database (3S_V) will include at least 3300 villages.

RECOMMENDED ACTIONS

A.

In order

- to complete the FAO99-UNICEF97 matching (particularly for the Dohuk Governorate),
- to match the resulting database with the recently received IKRP2000 database

a local skilled person must be recruited and receive appropriate instructions from the Consultant. It is expected that, in principle, he could complete the above assignment in about one month². The final results will be sent by e-mail to the Consultant in Venice (Italy) for counterchecking and verification.

B.

The consistency of the **3V_S database** will be verified through logical test and GIS techniques by the Consultant, still in Venice. He will identify the major bias to be investigated, if existing, when again in Erbil (beginning September).

C.

It is evident, from the described procedure, that the **3V_S database** will not include the totality of the NI villages, but –nevertheless- will provide a powerful basement for the **design of any rural area monitoring system** as requested by **TOR's point 4**.

EXPECTED OUTCOMES

- The 3V_S database will be processed using multifactorial techniques in order to identify the **most relevant village typologies**³. During the current mission a part of the on-building database has been tested and processed in order to facilitate a smoother approach at the occasion of the overall data analysis (September 2001).
- A significant contribution to the definition of village typologies will be provided by the outcomes of the ongoing NDVI (Normalised Difference Vegetation Index) images analysis. → see next paragraphs.
- It is expected that, as soon as the SHS (Settlement and Household Survey) will be processed, the information extractable from the farmer questionnaires will improve the definition/identification of village typologies.
- The overall outcomes of the previous three bullets will make up the backbone of the overall **“study on the significant factors affecting rural areas”** as requested by TOR.
- Nevertheless it seems evident, since now, that few peculiar questions will not find adequate answers from the 3V_S database and the SHS (i.e. partime agricultural activities, nomadic system, livestock smuggling system, land tenure regimes).
- Consequently **it is recommended since now to foreseen the possibility of using RRA techniques** for a better understanding few relevant questions related to Habitat intervention in the expected resettlement operations:
 - **the identification of existing hidden income generation activities, that could be strengthened in the future,**
 - **the land ownership structure that seems not always encouraging farmers to invest, a phenomena that could seriously hamper any sustainable resettlement in rural areas.**

² A margin of risk is still represented by the final step of the matching procedure (LAT_LON) as the procedure has not yet been fully tested.

³ at least according to the domains covered by the three original databases

B. NDVI (Normalised Difference Vegetation Index) ANALYSIS

As already indicated in the first mission BTOreport, and as requested by TOR's point 1, it is expected, through a rather sophisticated data processing of NDVI⁴ remote sensing images, to get significant indicators assisting in the identification of the

- **agroecologically at risk areas**
- **and the most suitable ones.**

The advantage of the remote sensing information, when compared with survey information, consists mainly in the fact of being clearly geographically identified. Nevertheless these information, if not matched with information collectables by surveys, can lose more of their potentiality⁵

Processing a consistent dekadal⁶ NDVI images time-series, the Consultant has computed a set of NDVI images including :

- NDVI interannual overall average
- NDVI interannual overall minimum
- NDVI interannual overall maximum
- NDVI average annual standard deviation.

Through a further data processing a **synthesis image** has been produced according to the following definition:

$$\text{NDVI Delta} = \text{NDVI maximum} - \text{NDVI average}$$

In other words **the final NDVI Delta image shows**, through a locally calibrated palette, **the potential blossoming of greenness.**

It is enough a rapid glance to the maps printed in the following pages for identifying the areas mostly used for cropping activities.

Greener areas correspond to a stronger explosion of biomass in terms of difference between

- the maximum that can be reached and
- the overall interannual average

Map1 and 2 show the northern part of NI, while 2 and 4 the southern. Settlement are indicated in purple, while main roads are in red. Rocks and lakes are in less or more light brown (due to a similar behaviour when using the NDVI algorithm).

⁴ The Normalised Difference Vegetation Index is a measure of the amount and vigor of vegetation as observed by NOAA satellites; and processed by NASA.

The NDVI from (NOAA) AVHRR sensor is calculated according to the formula:

$$\text{NDVI} = (\text{NIR} - \text{VIS}) / (\text{NIR} + \text{VIS})$$

where: NIR = near-infrared (channel 2); VIS = visible (channel 1)

The NDVI magnitude is related to the level of photosynthetic activity of the observed vegetation.

⁵ Let make an example particularly significant for any Resettlement Planning Activity: in the peculiar case of NI (that probably it is not so peculiar if you think about other territories/countries affected by man-made disasters) the identification of land potentiality in term of length and level of the growing period (detectable through NDVI images) can be meaningless if not interfaced with a precise identification of the still mined areas.

⁶ that means in technical terms: 10 days

MAJOR OUTCOMES FROM NDVI IMAGES PROCESSING

As already explained in the previous paragraph, the statistics extracted from NDVI images will remarkably contribute to the definition of **village typologies**.

It is evident that the use of:

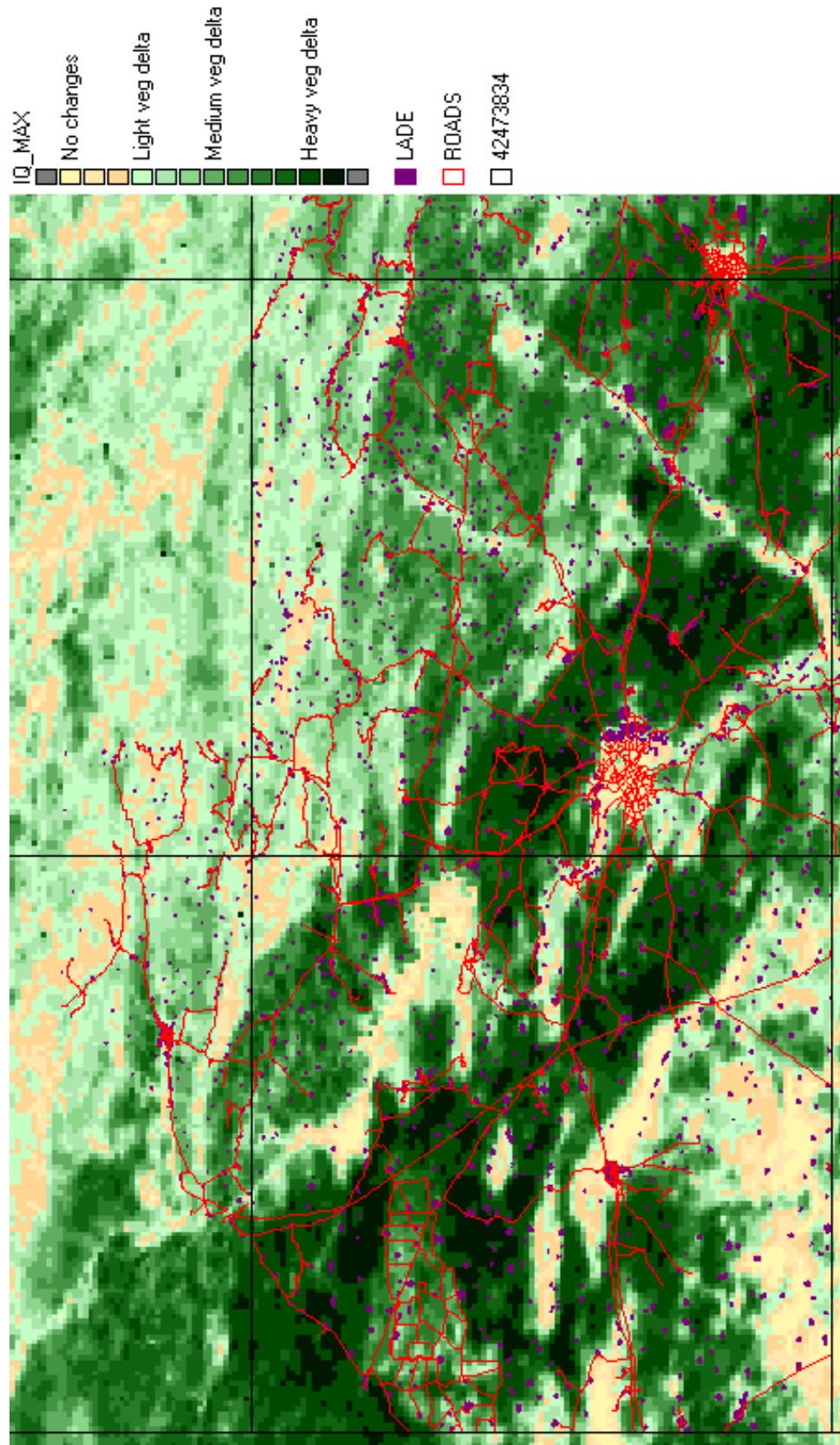
- the NDVI interannual variability as an indicator of vulnerability due to weather risks,
- the measurement of the NDVI levels reached during the latest two years characterised by drought,
- a precise definition of the most probable local length of the growing season

will powerfully complement and improve the quality of the 3V_S database.

In term of time-scheduling the NDVI statistics will be extracted from the whole remote sensing time series set **as soon as** the exhaustive list of matching villages will be definitively compiled.

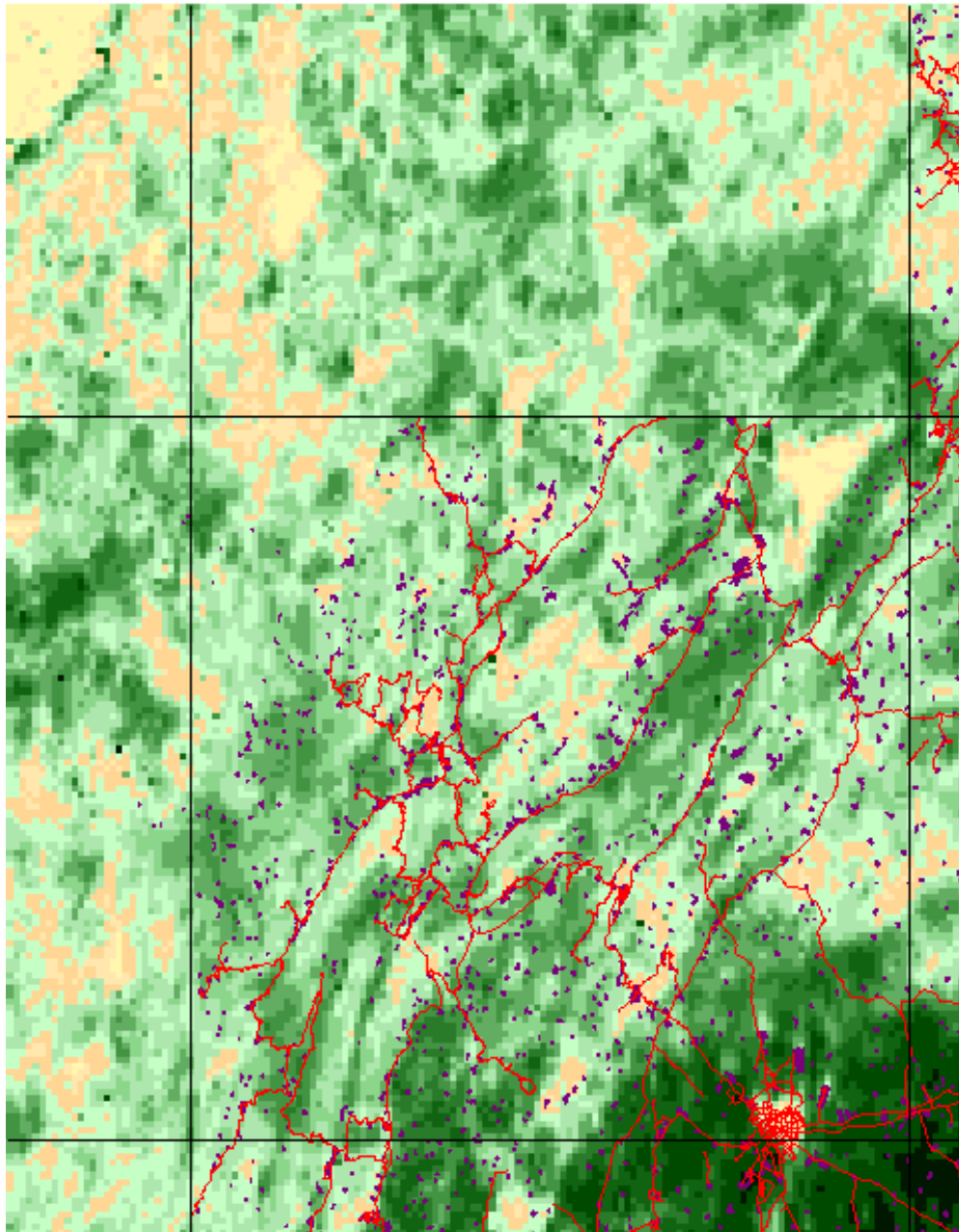
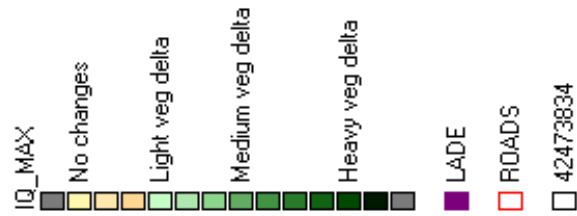
MAP1

The map shows the NI north-western area (Syrian-Turkey borders) The left-upper city is Zakho, while the big conurbation in the central lower part of the images shows Mosul. On the bottom right corner the Erbil roads system is evident. Note that the roads and villages in Amadia area are not draft into the map as layer from UNOCHI are, at the time being, not available.



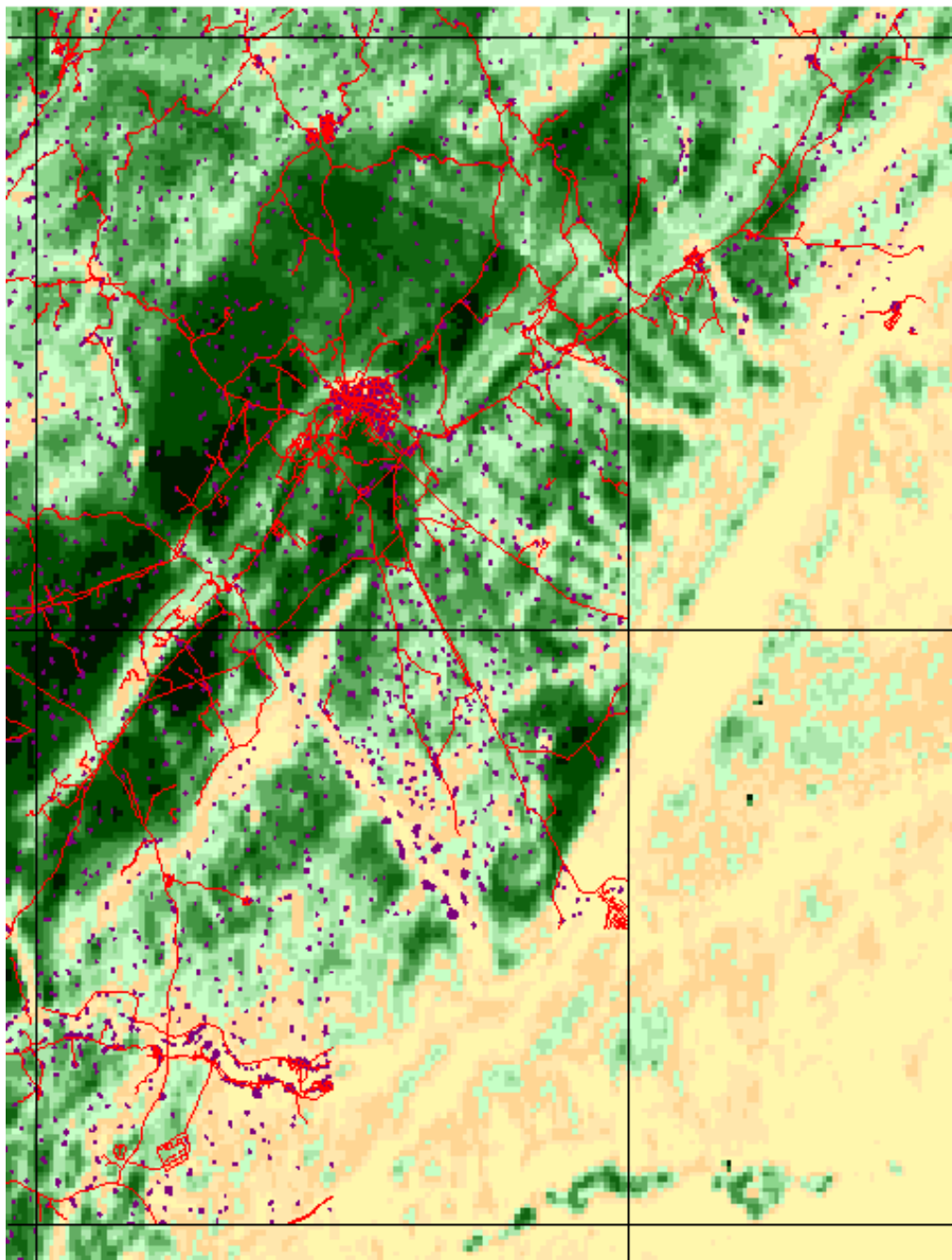
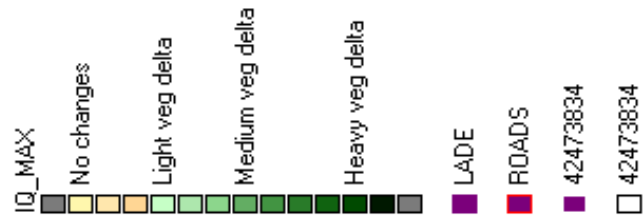
MAP2

NI north-eastern area are shown in this map (Turkey-Iran border). In this case Erbil roads system is evident in the bottom left corner. The dry rocks of Salahadin are evident too. Note that the Dokan artificial lake is marked with beige colours (in the final maps the lake will be masked and painted with more understandable colour).



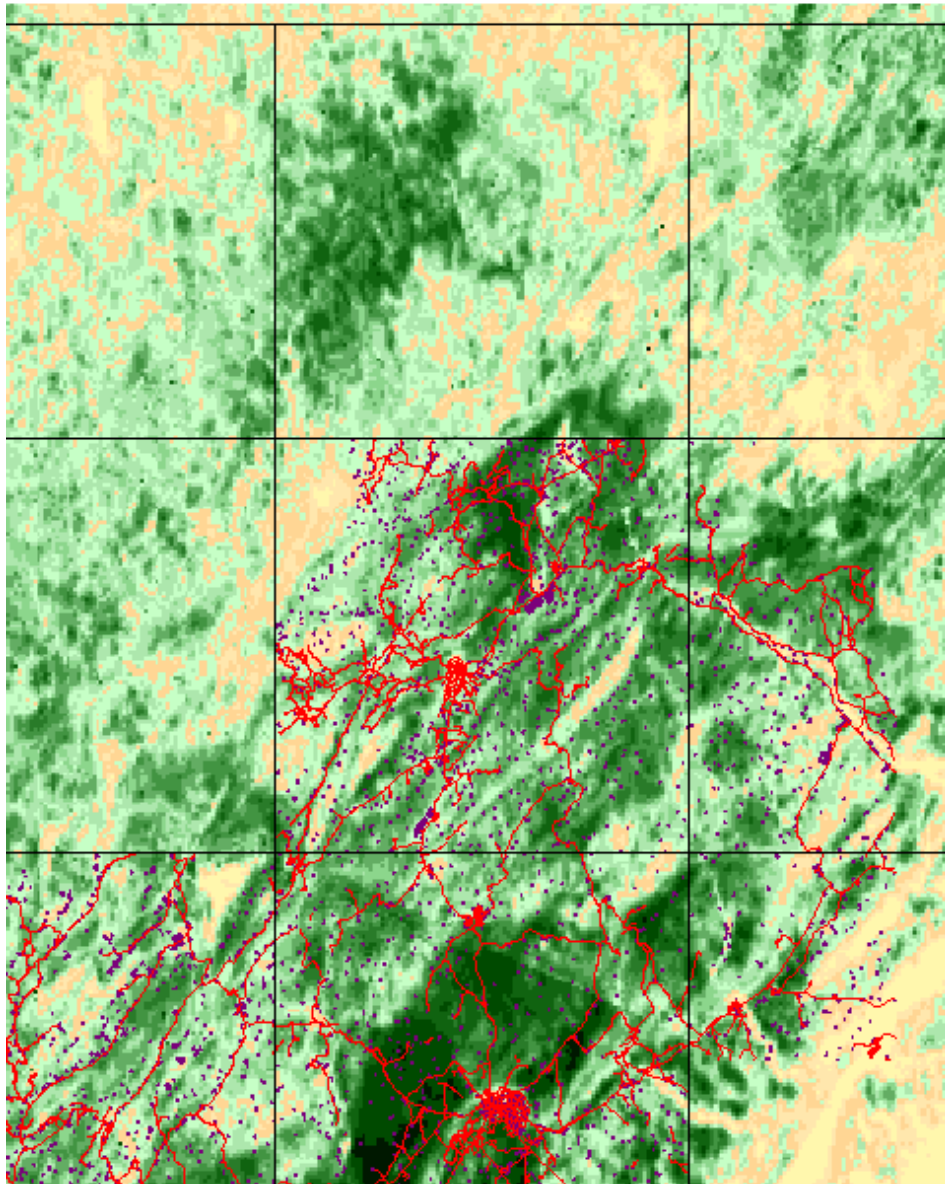
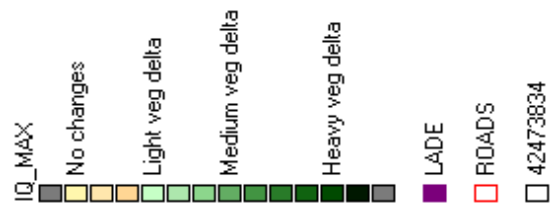
MAP3

The image show the GOI border area south of Erbil. The big conurbation is Kirkuk, while the town in the top right corner is Dokan.



MAP4

Sulymania is show in the center of the image, while Kirkuk is still on the left. The lower area arrives up to Kifri, while the Penjween border area is not marked by villages and roads because the related layer are not yet available from UNOCHI.



TOR's duty 2

To evaluate the current rural/urban exchange profiles and the way these are affected by the current food ration system

Due to a lack of significant analysis on rural/urban exchanges, few specific questions have been included in the SHS questionnaires.

Since now it is evident that the traditional patterns of the rural/urban exchange have been heavily modified by the current ration system.

It seems that:

- Farmers are abandoning their traditional cropping system that was mostly motivated by a self-sufficiency food security strategy.
- The fact that the cereal component of the monthly ration lasts, at least apparently, for approximately three weeks and that the cereal prices on the free market are substantially steady provokes an abnormal situation in the countryside.
- In the remote rural areas the farmers are limiting their agricultural production strictly to satisfy their household needs, complementing the quantities provided by the ration.
- Only in the most accessible areas (within an easier communication network) and not always here too, farmers are partially changing their cropping strategies. This is the case of the introduction of the so called "economic crops". Nevertheless this kind of reconversion is heavily limited by a low increase of the urban/internal demand, for not speaking about the international one.

These preliminary assumptions will be verified, revised –as far as possible – through the answers provided at the occasion of the SHS.

TOR's duty 3

To coordinate the study activities with the surveys and studies that are carried on with [other UN agencies (WFP, FAO, UNOHCI)]

The Consultant, while in Italy and before the period of the present mission, informally contacted in Rome many colleagues both in FAO and in WFP HQs, between them:

- Mrs Anne Callanan, ODT, WFP
- Mrs Florence Egal, ESNP, FAO
- Mr Rodrigue Vinet, TCOR, FAO
- Mr Stephan Baas, RDD, FAO
- Mr J. van Amerongen, AGP Consultant, FAO

The exchange of opinions was focused mainly on the following point:

- ✓ The outcomes of the last **"assessment of the food and nutrition situation"** mission (FAO, WFP, WHO assisted by UNOCHI, May 2000)
- ✓ The outcomes of the FAO **"Multidisciplinary Reconnaissance Mission Fielded in Iraq in November/December 2001"**
- ✓ The main outcomes of the WFP **"Adequacy of SCR 969 Ration Survey"** [provisional title, document not yet released]

The following points, deserving attention, emerged. They are summarized here below:

1. There is a real interest inside the concerned technical Division both of WFP and FAO to carry out joint activities with Habitat in order to evaluate the long term negative impacts/effects of the **SCR 969 on rural life**. What Habitat is investigating through the SHS is viewed as a very important attempt to a better understanding of this basic topic. Probably the expectations are too high: this is the risk! But this is also the challenging aspect of our work!
2. As far as Habitat is expected to deal with the problem of rural resettlement, it seems advisable to find the way of promoting a workshop on this crucial theme (on September 2001?) But who, as first, will take the initiative to call for it?
3. Any UN Agency is now expressing the willingness of “**reorienting**” or “**rethinking**” the previous programmes, and to stop with the practices of accepting the priorities indicated by the LAs’s “shopping list”. It is lamented that “no methodology for .. targeting and participatory needs assessment has been established yet”⁷
4. As a consequence more emphasis is given to the need of building comprehensive databases at local level⁸. In this common perspective Habitat could play an important role.

TOR's duty 4

To design a rural area monitoring system that will allow updating on the basis of annual and seasonal time scheduling the accounting system on resources/pressure balance

The design of a rural area monitoring system seems to be premature due to the still rather fuzzy panorama of proposals both in Habitat and also in other UN Agencies.

Nevertheless it is expected that at the beginning of the Consultant's next mission (September 2001):

- √ when the task of rebuilding a **georeferenced, rather comprehensive and homogenous rural database (3V_S Database) complemented by NDVI indicators** will be fully achieved, and
- √ when the expected **Database and GIS Consultant** will join the Planning Unit, and
- √ when the **FAO Socio-economic Unit** will be established and consequently it will be possible to define precise modalities of collaboration/integration,

the informational environment will be better defined. At that stage will be probably possible to “**design**” a first draft of the expected “**rural area monitoring system**”.

TOR's duty 5

To evaluate the outcomes of the study with the aims and objectives of Habitat's mission in NI according to international agreements within the framework of the “Oil for Food” program.

⁷ see for instance “FAO, Towards a strategic framework for sustainable agricultural rehabilitation programme in the three Northern Governorates of Iraq”, vol.1, page 107

⁸ see for instance the TOR of the new “**Socio-economic Unit**”, in “FAO, Towards a strategic framework for ..”, vol.1, page 119. For a better information **annex 4** contains a short description of the expected Unit and the TORs of the staff expected to assist in the implementation phase.

It is evident that this duty will be accomplished only when the outcomes of the study will be drafted.

ANNEXES

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Annex 1

ONGOING MATCHING DATABASE CONTENTS

DESCRIPTION OF RECORDS

| FAO - Village Survey 1999 number of villages: 4972 | UNICEF 97 - Village database number of villages: 4760 |
|--|--|
| 1 Counter 2 Gov-Code 3 District-Code 4 Location 5 Sub-Code 6 Village 7 Village Location 8 Farmer 9 Mahjur 10 No of V house 11 Total V 12 No farmers 13 Total area 14 Arable area 15 Non-arable area 16 Orchard area 17 Forestry area 18 Bulding Area 19 Natural pasture area 20 Guaranteed rainfall 21 Semi-Guaranteed rainfall 22 Non-Guaranteed rainfall 23 Irrigation area 24 Wheat 25 Barley 26 Chickpea 27 Lentil 28 Winter Vegetables 29 Summer C & V 30 Bur area 31 Cow 32 Buffalo 33 Sheep 34 Goat 35 Horses and mules 36 Donkey 37 Chicken 38 Duck 39 Goose 40 Turkey 41 Beehives 42 H-Jonder 43 H-Laverda 44 H-Fargason 45 H-Others 46 H-Kharmanko 47 T-Antar 48 T-Fargason | 1 No. of entry 2 Governorate 3 District 4 Nahia 5 Village name 6 Sector No. 7 Main source of income 8 Main problem related to source of income 9 Electricity y/n 10 Population No. 11 Male % 12 Female % 13 Population under 5 years % 14 Prior to des.Period 15 Currently 16 Permanently % 17 Temporarily % 18 Deserted % 19 Reasons for temporarily 20 Reasons for deserted 21 Mosque y/n 22 Church y/n 23 Irrigation channel y/n 24 Comments 25 Water project y/n 26 Gravity (no.) 27 Pump (no.) 28 Deep well (no.) 29 Other (type) 30 Distance from village km. 31 No. of water points 32 Comments 33 Public latrine y/n 34 Sewage disposal 35 House latrines No. 36 Single pit 37 Double pit 38 Open field 39 Comments 40 Is there a primary school building y/n 41 Classes No. 42 Classrooms No. 43 Full-time teacher No. 44 Part-time teacher No. 45 Pupils enrolled No. 46 Age range 47 Pupils not enrolled No. 48 Nearest school if none present |

| |
|-----------------------------|
| 49 T-Fiat |
| 50 T-Jonder |
| 51 T-Valvo |
| 52 T-Other |
| 53 P-Less 6 |
| 54 P-(6-12) |
| 55 P-(12-18) |
| 56 P-(18-24) |
| 57 Irtwazia |
| 58 Poultry farms |
| 59 Cow breeding |
| 60 Sheep breeding |
| 61 Goat breeding |
| 62 Beekeeping |
| 63 Fish breeding |
| 64 Orchard |
| 65 Nursery |
| 66 Man-made forest |
| 67 Complementary irrigation |
| 68 Feed stuff factories |
| 69 Mill |
| 70 Water Source1 |
| 71 Water Source2 |
| 72 Water Source3 |
| 73 Water Source4 |
| 74 Water Source5 |
| 75 Electricity |
| 76 Primary school |
| 77 Intermediate school |
| 78 Health clinic |
| 79 Road |

filename: All.xls

| |
|---|
| 49 How far ? Km. |
| 50 Comments |
| 51 Health centre y/n |
| 52 Doctors No. |
| 53 Medical assistant No. |
| 54 Other |
| 55 Maternity facil. y/n |
| 56 Nearest H.C if none present |
| 57 How far ? Km. |
| 58 Comments |
| 59 Distance between village & Nahia km. |
| 60 Dist . between village and main road km. |
| 61 Track % |
| 62 Sub-base % |
| 63 Paved % |
| 64 Other |
| 65 Culvert |
| 66 Gravel lining |
| 67 Other |
| 68 Needs an access road ? y/n |
| 69 Comments |
| 70 Collated comments |

filename: Surveyn.xls

| UNICEF - Village population |
|-----------------------------|
| used for current surveys |
| number of villages: 2869 |
| 1 Village name |
| 2 Village code |
| 3 Variable (pop) |
| 4 Value |
| 5 Sub-district |
| 6 District |

filename: rural_population_UNICEF.xls

| UNOPS - NIMA - Lade layer |
|------------------------------|
| all localities: 5542 |
| 1 ID |
| 2 X, longitude (100') |
| 3 Y, latitude (100') |
| 4 NEW_ID |
| 5 LOCALITY NAME |

filename: ladename.xls

| FAO - MAPINFO Database - |
|------------------------------|
| number of localities: 4060 |
| 1 SETTLEMENT name |
| 2 SUBDISTRICT |
| 3 DISTRICT |
| 4 GOVERNORATE |
| 5 X, longitude (100') |
| 6 Y, latitude (100') |

filename: AllvillagesClean2_lat_lon.xls

IKRP 2000 - Village Multi_sectoral database

number of villages: 4860

| | | | |
|----|---|-----|--|
| 1 | Serial Number | 104 | Number of dwellings which have the exclusive toilet |
| 2 | Number of the Team | 105 | The percentage of toilet with two wells |
| 3 | The Districts and Subdistricts Name | 106 | The percentage of Toilet with Open system Name |
| 4 | The Name of the Villages | 107 | Name |
| 5 | The Villages Name in English | 108 | 1-Notes |
| 6 | The Number of the site | 109 | Is there a primary school in the village? |
| 7 | The substitute name of the village | 110 | If no, Was there aschool in the village in the past time? |
| 8 | The date of the interview | 111 | The condition of the primary school |
| 9 | The time of starting the interview | 112 | Number of classes primary school |
| 10 | The time of finishing the interview | 113 | Number of stages primary school |
| 11 | Notes | 114 | Number of enrolled teachers |
| 12 | Was the village destroyed in the past? | 115 | Number of absent teachers |
| 13 | How many times did the village destroy? | 116 | Number of enrolled pupils |
| 14 | When did the reconstruction of the village start? | 117 | Number of pupils who left the school |
| 15 | Is anew village build in the same site? | 118 | Why do they leave the school? |
| 16 | How far is it between the new village and the old village? | 119 | Number of Male in first stage - 6 years |
| 17 | The Notes | 120 | Number of Male in first stage - 7 years |
| 18 | The total number of the population | 121 | Number of Male in first stage - 8 years |
| 19 | Number of Male | 122 | Number of Male in first stage - more than 9 years |
| 20 | Number of Female | 123 | Number of Female in first stage - 6 years |
| 21 | Number of children less than 6 years old | 124 | Number of Female in first stage - 7 years |
| 22 | Number of advanced in years over 65 years | 125 | Number of Female in first stage - 8 years |
| 23 | Number of advanced in years(65) and they are responsible for the | 126 | Number of Female in first stage - more than 9 years |
| 24 | Number of families | 127 | Number of unrecorded pupils in first stage |
| 25 | Number of houses before the last destroy | 128 | The reason for not recording them |
| 26 | Number of present houses | 129 | Is there an intermediate school in the village? |
| 27 | Number of permanent residence houses | 130 | Was there an intermediate school in the village? |
| 28 | Number of resedence houses during the summer | 131 | Number of classes in the intermediate school |
| 29 | Number of resedence houses during the winter | 132 | Number of stages in the intermediate school |
| 30 | Number of deserted houses | 133 | 2- Number of enrolled teachers |
| 31 | Number of houses which can be settled | 134 | Number of lecturing teachers |
| 32 | Number of houses which can not be settled | 135 | Number of enrolled pupils in the intermediate school |
| 33 | Indicate the reason If the house is residence during the summer | 136 | Number of pupils who left in the intermediate school |
| 34 | Indicate the reason If it is not residence during the summer | 137 | Why do the pupils leave the intermediate school? |
| 35 | What will be ahelpful for returning or | 138 | 6- Notes |
| 36 | What are the reasons for leaving their village and not returning | 139 | Is there a health center in the village? |

| | | | |
|----|---|-----|--|
| 37 | 1-Indicate the reason If it is not residence | 140 | If no, was there in the past time? |
| 38 | 2-Indicate the reason If it is not residence | 141 | The name of the health center |
| 39 | What will be helpful for returning | 142 | The condition of the health center |
| 40 | What are the reasons for leaving their village and not returning | 143 | Number of Doctors |
| 41 | Is there a mosque in the village? | 144 | Number of medical staff |
| 42 | Who built it? | 145 | Other |
| 43 | Is there a church in the village? | 146 | What are the medical services which exist? |
| 44 | Who built the church | 147 | The condition of the building |
| 45 | 1- Notes | 148 | Are there mid wives in the village? |
| 46 | Kurdish(Sorani Dialect) | 149 | Number of mid wives |
| 47 | Kurdish(Badini Dialect) | 150 | If there are not mid wives in the village, where is the nearest |
| 48 | Kurdish(Hawrami Dialect) | 151 | The distance of the nearest health center when it is not |
| 49 | Kurdish(Other Dialects) | 152 | The main health problems in the village-1 |
| 50 | Syriani | 153 | The main health problems in the village-2 |
| 51 | Turkumani | 154 | The main health problems in the village-3 |
| 52 | Name | 155 | Are there Handicaps in the village? |
| 53 | Arabic | 156 | Number of Handicaps in the village |
| 54 | Indicate others | 157 | Number of Handicaps by the time of birth |
| 55 | Muslem(Suni) | 158 | Number of Handicaps by the Mines |
| 56 | Muslem(Shea) | 159 | Number of Handicaps by other reasons |
| 57 | Christian(Arthadox) | 160 | 7- Notes |
| 58 | Christian(Catholic) | 161 | Where is the nearest Urban Settlement? |
| 59 | Yazedi | 162 | The distance between the village and the Urban Center(km) |
| 60 | Kakayi | 163 | The distance between the village and the Urban Center(Minutes) |
| 61 | Others(specify) | 164 | Name |
| 62 | 3- Notes | 165 | The name of the nearest main Road |
| 63 | The kind of water drinking exist in the village | 166 | The distance between the village and the nearest main Road |
| 64 | Is there water project in the village? | 167 | The Length of unconstructed |
| 65 | 1-The kind of water drinking exist in the village | 168 | The Length of constructed |
| 66 | 2-The kind of water drinking exist in the village | 169 | The Length of paved |
| 67 | Is there water project in the village | 170 | The Length of other sections of the road |
| 68 | If yes, Which kind of project is it?-1 | 171 | Number of arch needs |
| 69 | If yes, Which kind of project is it?-2 | 172 | The length of constructed way which needs improving(km) |
| 70 | If yes, Which kind of project is it?-3 | 173 | The length of paving needs(km) |
| 71 | Number of water projects which work | 174 | Number and the length of building bridge |
| 72 | Number of water projects which do not work | 175 | Other needs for improving the Roads |
| 73 | Howfar is the source of water in(km)-1 | 176 | Do the village need to build new roads |
| 74 | Howfar is the source of water in(km)-2 | 177 | The length of the roads (km) |
| 75 | Number of public taps and hand pumps | 178 | Notes on the roads |
| 76 | How is the condition of the water project? | 179 | Is the village supplied with the main net work of water? |
| 77 | Did you use water tanks last year? | 180 | Are there any Generators inside the village? |
| 78 | Number of liters used daily | 181 | Is there power plant(Hydraulic) in the |

| | | | |
|-----|--|-----|--|
| 79 | The quantity of water used for animals Liter/ Day | 182 | village? How many times does it supply the electricity? |
| 80 | The quantity of water used for Human beings Liter/ Day | 183 | Kind of power plant(Hydraulic) |
| 81 | The quantity of water used for Agriculture Liter/ Day | 184 | The height of the source of water from the poor plant(m) |
| 82 | The quantity of water used for other purposes Liter/ Day | 185 | The distance of the power plant(Hydraulic) from the village(km) |
| 83 | What is the solution for decreasing water problem | 186 | The quantity of water in Liters |
| 84 | 4- Notes | 187 | 9- Notes |
| 85 | Are there irrigation channels in the village? | 188 | Is there mine field in the village? |
| 86 | Number of working irrigation channels | 189 | Number of mine fields in the village? |
| 87 | Number of irrigation channels which are not working but can be | 190 | Number of persons which died by the Mines |
| 88 | Number of irrigation channels which are not working but cannot | 191 | Number of mine fields which they have not Warning Marks |
| 89 | Are there other channels which their water is more than the vill | 192 | Number of mine fields which they have Warning Marks |
| 90 | Are there any increasing water sources which can be used in | 193 | Are the people of the village enter the Mine fields? |
| 91 | If yes indicate the number | 194 | Are they enter to the fields intentionally? |
| 92 | Are the irrigation channels effected by droughty? | 195 | Why they enter to the fields intentionally?-1 |
| 93 | If yes how much is the water source effected in decreasing the | 196 | Why they enter to the fields intentionally?-2 |
| 94 | 5- Notes | 197 | Why they enter to the fields intentionally?-3 |
| 95 | Is there a toilet in the village? | 198 | Are the people of the village raised the Warning Marks? |
| 96 | Number of Toilets in work | 199 | Are the Mine fields eliminated previously? |
| 97 | Number of Toilets are not in work | 200 | 1- Are the people of the village edificated from the Mines? |
| 98 | Number of benefit toilets | 201 | 1- The means which got from the Mines |
| 99 | Number of non benefit toilets | 202 | Are the people of the village edificated from the Mines? |
| 100 | The percentage of Toilet with one well | 203 | The means which got from the Mines |
| 101 | The percentage of Toilet with two well toilet | 204 | The main factors of Mine fields on the village population |
| 102 | The percentage of open galley toilet | 205 | 10- Notes |
| 103 | Number of dwellings which have the exclusive toilets | | |

filename: VMS2_B_Translated.mbd

translation of variables names still under revision

filename: List_of_variables_6DB.xls

Annex 2

ADMINISTRATIVE AREAS according to different databases

original names

Original FAO 99 Village Database

| | | |
|--------------------|--------------|--------------|
| DOHUK | | |
| Dohuk | Akra | Akra Center |
| Dohuk | Akra | Bardarash |
| Dohuk | Akra | Bjel |
| Dohuk | Akra | Dinarta |
| Dohuk | Akra | Grdasin |
| Dohuk | Amadia | Amadia |
| Dohuk | Amadia | Deralok |
| Dohuk | Amadia | Kani Mase |
| Dohuk | Amadia | Sarsang |
| Dohuk | Doh. Center | Doh. Center |
| Dohuk | Doh. Center | Doski |
| Dohuk | Doh. Center | Zawita |
| Dohuk | Shekhan | Atrush |
| Dohuk | Shekhan | Badri |
| Dohuk | Shekhan | Qasrok |
| Dohuk | Sumel | Batel |
| Dohuk | Sumel | Sumel |
| Dohuk | Zakho | Batufa |
| Dohuk | Zakho | Darkar |
| Dohuk | Zakho | Kani Mase |
| Dohuk | Zakho | Rzgari |
| ERBIL | | |
| Erbil | Choman | Choman |
| Erbil | Choman | Galala |
| Erbil | Choman | Haji Omaran |
| Erbil | Erbil Center | Ainkawa |
| Erbil | Erbil Center | Khabat |
| Erbil | Erbil Center | Qushtapa |
| Erbil | Mergasor | Barzan |
| Erbil | Mergasor | Mergasor |
| Erbil | Mergasor | Sheruan Mazn |
| Erbil | Quaisinjak | Quaisinjak |
| Erbil | Quaisinjak | Shorsh |
| Erbil | Quaisinjak | Taqtaq |
| Erbil | Shaqlawa | Harir |
| Erbil | Shaqlawa | Khoshnaw |
| Erbil | Shaqlawa | Salahadin |
| Erbil | Soran | Diana |
| Erbil | Soran | Khalifan |
| Erbil | Soran | Rawanduz |
| Erbil | Soran | Sidakan |
| SULEIMANYHA | | |
| Suleimanyha | Chmchmal | Aghjalar |
| Suleimanyha | Chmchmal | Chmchmal |
| Suleimanyha | Chmchmal | Qadr Karam |
| Suleimanyha | Chmchmal | Sangaw |
| Suleimanyha | Chmchmal | Shwan-Qrnaw |
| Suleimanyha | Darbandikhan | Darbandikhan |
| Suleimanyha | Darbandikhan | Zrain |
| Suleimanyha | Dokan | Bngrd |
| Suleimanyha | Dokan | Khalakan |
| Suleimanyha | Dokan | Surdash |
| Suleimanyha | Halabja | Biara |

| | | |
|-------------|------------|-----------------|
| Suleimanyha | Halabja | Khormal |
| Suleimanyha | Halabja | Said Sadq |
| Suleimanyha | Halabja | Siruan |
| Suleimanyha | Kalar | Bebaz |
| Suleimanyha | Kalar | Kalar |
| Suleimanyha | Kalar | Tilako (Gulajo) |
| Suleimanyha | Kfri | Nojul |
| Suleimanyha | Kfri | Sarqala |
| Suleimanyha | Khanaqin | Maidan |
| Suleimanyha | Khanaqin | Qoratow |
| Suleimanyha | Penjween | Garmak |
| Suleimanyha | Penjween | Penjween |
| Suleimanyha | Pshdar | Hero |
| Suleimanyha | Pshdar | Sangasar |
| Suleimanyha | Rania | Chuarqurna |
| Suleimanyha | Sharbazher | Barznja |
| Suleimanyha | Sharbazher | Mauat |
| Suleimanyha | Sharbazher | Sharbazher |
| Suleimanyha | Sharbazher | Siwail |
| Suleimanyha | Sul Center | Bazian |
| Suleimanyha | Sul Center | Qaradagh |
| Suleimanyha | Sul Center | Sarchnar |
| Suleimanyha | Sul Center | Tanjro |

filename: FAO_99_admin_areas.xls

ADMINISTRATIVE AREAS according to different databases

original names

Original UNICE97 Village Database

| | | |
|---------------------|-----------|----------------|
| DOHUK | | |
| Dohuk | Akrea | Akrea |
| Dohuk | Akrea | Bardarash |
| Dohuk | Akrea | Gardaseen |
| Dohuk | Akrea | Nahla |
| Dohuk | Akrea | Sorchy |
| Dohuk | Amaedy | Amaedy |
| Dohuk | Amaedy | Barwary |
| Dohuk | Amaedy | Nerwa Rekan |
| Dohuk | Amaedy | Sarsenk |
| Dohuk | Dohuk | Dohuk |
| Dohuk | Dohuk | Dosky |
| Dohuk | Dohuk | Zawita |
| Dohuk | Shekhan | Atrosh |
| Dohuk | Shekhan | Qasrok |
| Dohuk | Sumail | Sulaivany |
| Dohuk | Sumail | Surmail-Faida |
| Dohuk | Zahko | Gully |
| Dohuk | Zahko | Rezgary |
| Dohuk | Zahko | Sendy |
| ERBIL | | |
| Erbil | Choman | Galala |
| Erbil | Choman | HajiOmaran |
| Erbil | Erbil | Ainkawa |
| Erbil | Erbil | Khabat |
| Erbil | Erbil | Qushtapa |
| Erbil | Koisenjaq | Koisenjaq |
| Erbil | Koisenjaq | Shorish |
| Erbil | Koisenjaq | Taq-Taq |
| Erbil | Shaqlawa | Hareer |
| Erbil | Shaqlawa | Hiran |
| Erbil | Shaqlawa | Salahaddin |
| Erbil | Soran | Diana |
| Erbil | Soran | Khalifan |
| Erbil | Soran | Rawanduz |
| Erbil | Soran | Sidakan |
| Erbil | Zebar | Barzan |
| Erbil | Zebar | Mergasur |
| Erbil | Zebar | Sherwanmazin |
| SULEIMANIYAH | | |
| SULEIMANIYAH | CHWARTA | CHWARTA |
| SULEIMANIYAH | CHWARTA | MAWAT |
| SULEIMANIYAH | CHWARTA | SEEWAIL |
| SULEIMANIYAH | CHWARTA | SRUCHIK |
| SULEIMANIYAH | DOKAN | BINGIRD |
| SULEIMANIYAH | DOKAN | CHINARAN |
| SULEIMANIYAH | DOKAN | SURDASH |
| SULEIMANIYAH | HALABJA | BIARA |
| SULEIMANIYAH | HALABJA | KHURMAL |
| SULEIMANIYAH | HALABJA | SAIDSADIQ |
| SULEIMANIYAH | HALABJA | SEERWAN |
| SULEIMANIYAH | PENJWEEN | GARMIK |
| SULEIMANIYAH | PENJWEEN | PENJWEEN |
| SULEIMANIYAH | QALADIZA | HERO |
| SULEIMANIYAH | QALADIZA | PISHDAR CENTRE |
| SULEIMANIYAH | RANYA | BETWATA |

| | | |
|--------------|--------------|--------------|
| SULEIMANIYAH | RANYA | CHWARQURNA |
| SULEIMANIYAH | SULAIMANIYAH | ARBAT |
| SULEIMANIYAH | SULAIMANIYAH | BAZIAN |
| SULEIMANIYAH | SULAIMANIYAH | QARADAGH |
| SULEIMANIYAH | SULAIMANIYAH | SARCHINAR |
| DARBANDIKHAN | | |
| DARBANDIKHAN | KIFRI | NAWJUL |
| DARBANDIKHAN | KIFRI | SARQALA |
| DARBANDIKHAN | KALAR | KALAR |
| DARBANDIKHAN | KALAR | MAIDAN |
| DARBANDIKHAN | KALAR | PEBAZ |
| DARBANDIKHAN | KALAR | QURATO |
| DARBANDIKHAN | KALAR | TILAKO |
| DARBANDIKHAN | DARBANDIKHAN | DARBANDIKHAN |
| DARBANDIKHAN | DARBANDIKHAN | ZARAEN |
| DARBANDIKHAN | CHAMCHAMAL | AGHALAR |
| DARBANDIKHAN | CHAMCHAMAL | CHAMCHAMAL |
| DARBANDIKHAN | CHAMCHAMAL | QADIR KARAM |
| DARBANDIKHAN | CHAMCHAMAL | SANGAW |
| DARBANDIKHAN | CHAMCHAMAL | SHOWAN |

filename: UNICEF97_admin_areas.xls

ADMINISTRATIVE AREAS according to different databases

original names

Original IKRP 2000 Village Database

| | blank = not specified in the original database | |
|-------------------|--|------------|
| DOHUK | | |
| Akre Center | Duhok | Dohuk |
| Amedi Center | Duhok | Dohuk |
| Atrosh | | Dohuk |
| Barda Rash | | Dohuk |
| Batufa | Duhok | Dohuk |
| Bijil | | Dohuk |
| Dera Lok | | Dohuk |
| Dinarta | | Dohuk |
| Dosky | Duhok | Dohuk |
| Duhok | Duhok | Dohuk |
| Fayde | | Dohuk |
| Girde Sin | | Dohuk |
| Gwer | | Dohuk |
| Kalak | Duhok | Dohuk |
| Kani Masi | Duhok | Dohuk |
| Qasrok | Duhok | Dohuk |
| Rezgary | | Dohuk |
| Sarsang | | Dohuk |
| Sindi | Duhok | Dohuk |
| Slevani | Duhok | Dohuk |
| Summail Center | Duhok | Dohuk |
| Zawita | | Dohuk |
| ERBIL | | |
| Ainkawa | Erbil | Erbil |
| Ashti | Erbil | Erbil |
| Barzan | Erbil | Erbil |
| Benslawar | Erbil | Erbil |
| Diana | | Erbil |
| Galala | Erbil | Erbil |
| Haji Omeran | | Erbil |
| Hareer | Erbil | Erbil |
| Hiran | | Erbil |
| Khabat | Erbil | Erbil |
| Khalefan | | Erbil |
| Khoshnaw | Erbil | Erbil |
| Koysinjaq | Erbil | Erbil |
| Mergasur Center | Erbil | Erbil |
| Qushtapa | | Erbil |
| Rowandoz | | Erbil |
| Salahaddin | Erbil | Erbil |
| Shorsh | | Erbil |
| Sidekan | | Erbil |
| Taq Taq | Erbil | Erbil |
| SULAIMANYA | | |
| Balisan | | Sulaimanya |
| Bayara | Sulaimanya | Sulaimanya |
| Bazian | Sulaimanya | Sulaimanya |

| | | |
|----------------------|------------|--------------|
| Betwata | Sulaimanya | Sulaimanya |
| Bingerd | | Sulaimanya |
| Bingird | Sulaimanya | Sulaimanya |
| Chinaran | Sulaimanya | Sulaimanya |
| Chwarqurna | Sulaimanya | Sulaimanya |
| Chwarta | Sulaimanya | Sulaimanya |
| Hero | Sulaimanya | Sulaimanya |
| Khormal | | Sulaimanya |
| Khormal | Sulaimanya | Sulaimanya |
| Mawat | Sulaimanya | Sulaimanya |
| Nalparez | Sulaimanya | Sulaimanya |
| Peshawa | Sulaimanya | Sulaimanya |
| Qalladiza | Sulaimanya | Sulaimanya |
| Qaredagh | | Sulaimanya |
| Saidsadiq | | Sulaimanya |
| Sangasar | Sulaimanya | Sulaimanya |
| Sarchinar | Sulaimanya | Sulaimanya |
| Sarchnar | | Sulaimanya |
| Sherwan Mezin | | Sulaimanya |
| Sirwan | Sulaimanya | Sulaimanya |
| Surdash | Sulaimanya | Sulaimanya |
| KIRKUK | | |
| Aghjalar | Kirkuk | Darbandikhan |
| Chamchamal | Kirkuk | Darbandikhan |
| Darbandikhan | Kirkuk | Darbandikhan |
| Kalar | Kirkuk | Darbandikhan |
| Meidan | | Darbandikhan |
| Nujol | | Darbandikhan |
| Pebaz | Kirkuk | Darbandikhan |
| Qadir Kerem | | Darbandikhan |
| Qure Tu | | Darbandikhan |
| Sangaw | Kirkuk | Darbandikhan |
| Sar Qala | | Darbandikhan |
| Tilako | | Darbandikhan |
| NOT SPECIFIED | | |
| Hajiawa | | |
| Kermek | | |
| Khan | | |
| Kirmik | | |
| Semud | | |
| Shuan | | |
| Siwael | | |
| Siweil | | |
| Srojek | | |
| Tanjarow | | |

filename: IKRP_2000_admin_areas.xls

Annex 3

INSTRUCTION PROVIDED FOR

**MATCHING FAO 1999, UNICEF 1997 AND IKRP 2000 DATABASES
at village level**

Preliminary note: **the relevant files (FAO99, UNICEF97 AND IKRP2000) are already provided at Governorate level**

1.

The villages FAO99 are assumed as the primary-key of the matching

2.

Match the four FAO99 Governorates database with the corresponding UNICEF97 ones, creating three types of files (for each Governorate) containing:

- villages matching
- villages not matching ["bin" files]
- villages with double or more matching names (i.e. one name in FAO99 and two or more in UNICEF97, or vice versa)

(the total number of files will be 4 Gov x 3 type of files = 12 files)

3.

Match the four FAO99+UNICEF97 files (with matching villages) with the IKRP2000 files creating :

- four new village matching files.
- villages not matching ["bin" files]
- villages with double or more matching names

4.

Create an overall not matching village file (the "overall bin" file)

5.

As the matching has been applied at Governorate level, a "second round" matching should be carried out "fishing" from the "overall bin" (not matching villages) file.

The results should be appended to the four Governorate "matching villager" files already done.

6.

The 4 Governorate double matching files will be provided without any change to the Consultant, who will implement adequate procedures to reaggregate the data.

It is expected that the job will be accomplished in one month.

Erbil, 06.05.01

Annex 4

Excerpt from TORs included in

FAO, "Towards a strategic framework for sustainable agricultural rehabilitation programme in the three Northern Governorates of Iraq", Rome, 2001

Socio-economic Unit

The unit will work under the overall supervision of the programme Coordinator for the North and in close partnership with the LAs. The unit will be supported and backstopped by FAO HQs technical divisions, in particular by AGS and SDA. The unit will basically focus on socio-economic and socio-cultural issues as well as on community level institution and capacity building. The unit will have specific responsibility for **(a) assessing and analysing farm economics of small farmer households and vulnerable groups and feed this information into all sub-sectoral activities**, (b) co-ordinating with other units, the specific programme thrust for integrated, sustainable rural rehabilitation, (c) **designing and advising on participatory approaches and processes within the programme and in selected pilot villages and resettlement areas**, (d) developing and directing the programme element for **vulnerable people and disadvantaged areas**, (e) guiding activities in the areas of rural financial and marketing services, **(f) integrating gender issues into the programme, as appropriate, and (g) land tenure issues.**

It is recommended that the unit will be staffed with a Production Economist and a Rural Sociologist as soon as possible, nominating the more experienced expert as Team Leader. At least one national expert/counterpart per discipline and governorate should be recruited immediately thereafter. Furthermore, a consultant is proposed to join the team asap to assist in methodology development for improved poverty targeting and needs assessments .

The unit, once operational, will fine-tune and further develop its own TOR on a demand driven basis, responding to the emerging needs of the programme and its counterparts in the field.

During the first months the unit will concentrate on the following urgent tasks:

- *Designing a work plan and establishing needs responsive working linkages with other programme units, and the UNOHCI socio-economic unit to ensure highest possible complementarity, interaction and to avoid duplication of activities;*
- **Review existing data on socio-economic, production economic and socio cultural issues available within the programme and from partner agencies, and design thereafter data collection methodology among target groups, and data systems for analysis and monitoring purposes;**
- *Formulate Terms of Reference for international and national consultants for the unit, including national consultants to implement field data collection;*
- *In close collaboration with LAs, select pilot villages and develop a pilot model for information collection and implementation of the integrated rural rehabilitation sub-programme .*
- *Building staff capacities in participatory approaches and techniques and mainstreaming their application within the programme; This will include liaison with the extension unit to ensure smooth methodological and practical integration of the participatory extension system and the community based integrated rehabilitation activities.*

Rural Sociologist in the Socio economic Unit (TOR)

Under the technical guidance of SDA and the overall operational supervision of TCOR, the FAOR Office in Baghdad, and the FAO programme coordinator for Northern Iraq, and in close collaboration with the Production Economist and other staff of the socio economic unit, the expert will guide the implementation of the sub-programme thrust on integrated rural rehabilitation and will be responsible for assessing and developing operational modalities for launching community based approaches for rural rehabilitation. More specifically he/she will pursue/launch the following tasks during the first 6 months of assignment :

Based on a comprehensive review of programme documentation and field activities and interviews with different programme stakeholders

- *Assist the overall programme with technical advice on socio-economic and sociocultural issues as required and requested buy other sub-units/teams,*
- *Develop in close collaboration with the Production Economist and other staff of the socio economic unit, the operational strategy for implementing the sub-programme thrust on integrated rural rehabilitation*
- **Assist in the design of case specific intervention modalities for programme support to the following groups of vulnerable peoples (a) IDPs with access to land; (b) female headed**

Households/Widows (c) people living in disadvantaged dry and mountainous areas (d) support farmer IDPs and refugees without current access to land;

- Review participatory approaches currently applied within the various sub-sectors of the programme and
 - (a) identify training needs in participatory approaches among project staff and LA counterparts ,
 - (b) strengthen the knowledge base on participatory approaches within the programme, in a way appropriate to the Northern Iraq situation and programme requirements and
 - (c) elaborate in consultation with LAs and programme staff the basic principles which should underscore a participatory approach/methodology in the overall programme and
 - (d) organize thereafter (using specialized PA training consultant)a process of capacity building among project staff and LA counterparts in participatory approaches and PRA techniques (in collaboration with an short term consultant extension section);
- *Assess scope, potentials and constraints for farmers groups and/or other possible self-help approaches, and develop together with other programme units a strategy for strengthening existing/creation of new rural organizations such as marketing and/or savings-credit village unions and/or water users and/or women groups at village level, and/or animal health workers and agro-processing and marketing interest groups at sub-district level; Propose the roles such organizations could play in a community based rural rehabilitation process; include an assessment of horizontal and vertical co-ordination mechanisms between different organizations required to sustain rural rehabilitation;*
-
- *Assist thereafter in establishing an organizational framework at community level which facilitates complementary interaction between local authorities and village communities in their joint efforts of rehabilitating the rural villages in Northern Iraq;*
-
- Guide the process of community mobilization in selected resettled and traditional villages and among groups of vulnerable people targeted by the programme and assist community organizations/groups in developing their own action plans which offer the basis for cross-sectoral sustainable community rehabilitation.
- *Take up duties as they will emerge*
-
- *Assist with advice in the above fields for fine tuning the medium term workplan of the socio economic unit*

Duration: either as team leader with a fixed term contract or as consultant for 11 months renewable;

Qualifications : Sociologist/Socio-economist/Social Anthropologist with extensive practical experience in rural settlement and rehabilitation programmes; strong conceptual and methodology development skills and sound experience in community based development and participatory approaches/methods; experienced in team working.

Rural Poverty Alleviation - Poverty Targeting Consultant (TOR)

Under the technical guidance of SDA and the overall operational supervision of TCOR, the FAOR Office in Baghdad, and the FAO programme coordinator for Northern Iraq, and in close collaboration within the socio-economic unit the consultant will be temporary member of the :

- *Analyze the nature and occurrence of poverty among and within the rural areas of Northern Iraq, including the **impacts of subsidies on small farmers and different categories of vulnerable groups**, elaborate an improved approach and methodologies for poverty targeting within the agricultural sector/the programme; develop a set of clear criteria which determine/limit the participation in specific poverty support by the programme.*
- *Assist the programme in developing an improved needs assessment methodology, which suits the demands of the different programme sub-sectors.*
- ***Establish, where appropriate, working relations with other UN agencies (particularly WFP, UNOCHI and HABITAT) and NGO's for coordinated activities targeted at vulnerable groups.***

Qualifications : Sociologist/Socio-economist with broad expertise in poverty alleviation and extensive practical experience in rural settlement and rehabilitation programmes; strong conceptual and methodology development skills; knowledge of participatory approaches/ methods.

