

KENYA DADAAB REFUGEE CAMPS

SOCIO-DEMOGRAPHIC MAPS AND DATABASE

UNHCR - IRD
OCTOBER 1999

IFO

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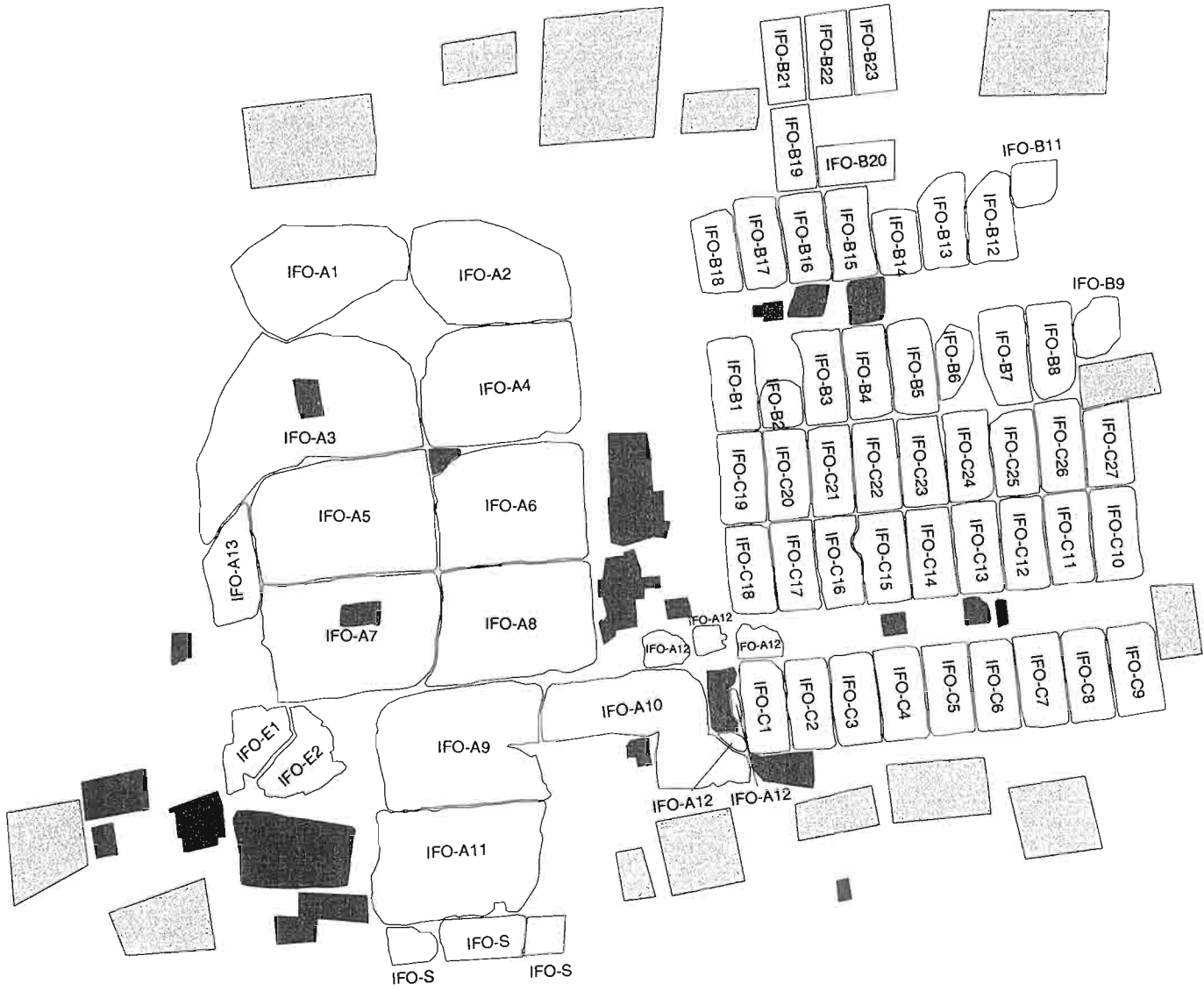
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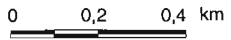
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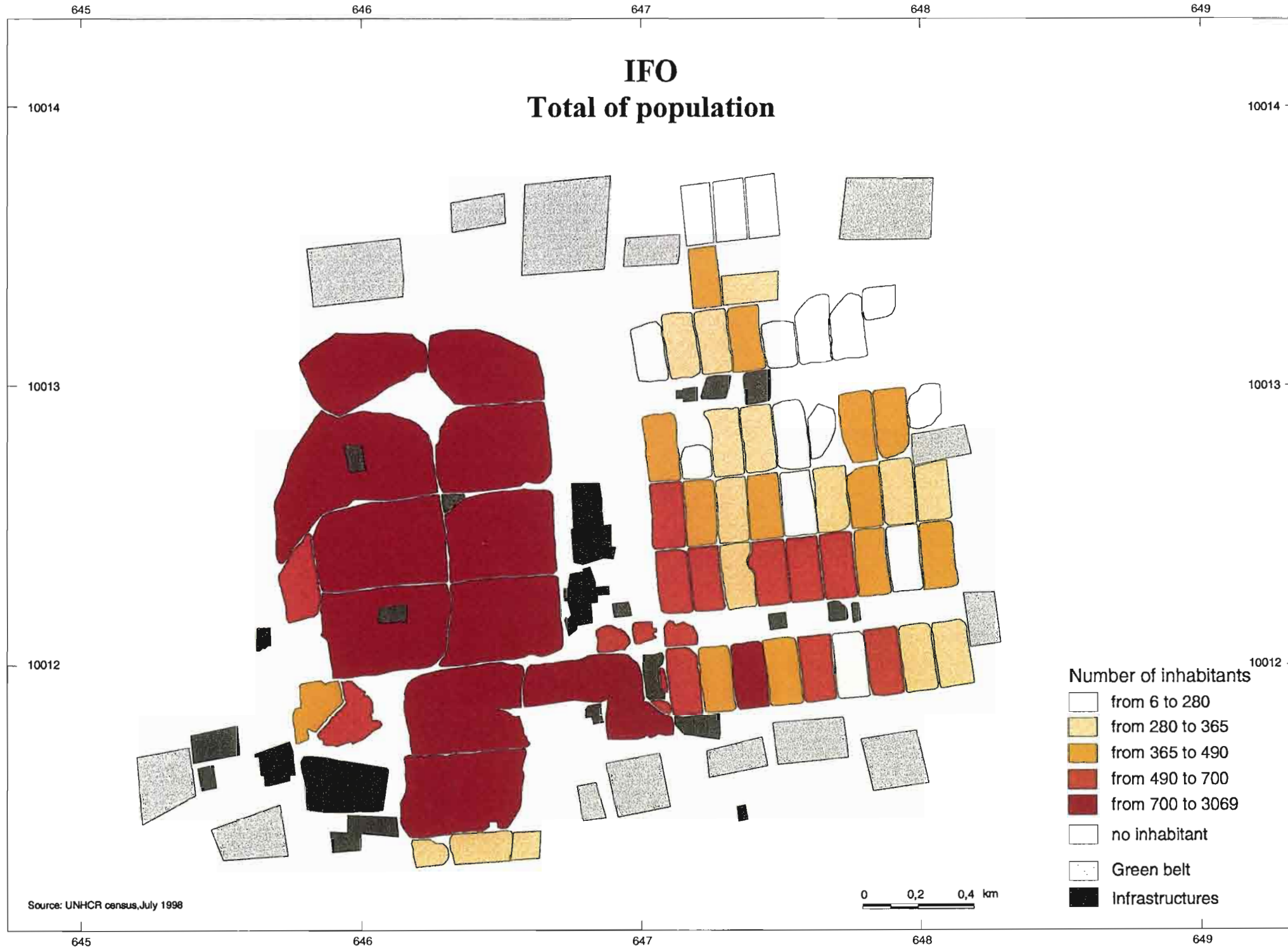
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-  Block of refugees
-  Green belt
-  Infrastructures



Source: UNHCR census, July 1998



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IFO

Square meters by refugee

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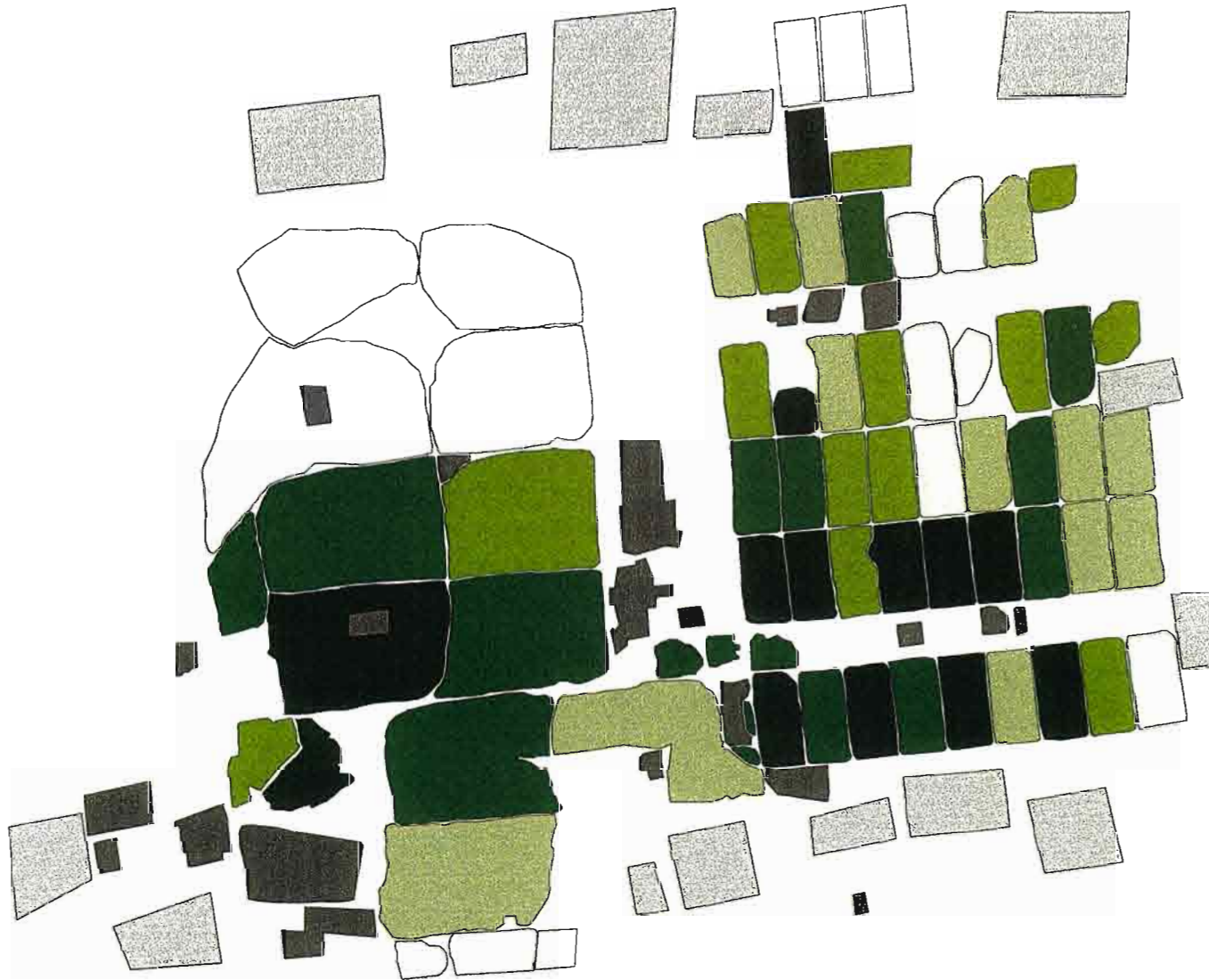
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


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- Number of m²
-  from 96 to 3674
 -  from 75 to 96
 -  from 63 to 75
 -  from 53 to 63
 -  from 34 to 53
 -  no inhabitant
 -  Green belt
 -  Infrastructures

Source: UNHCR census, July 1998

0 0,2 0,4 km



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IFO

Percentage of women

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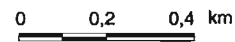
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Number of women
(in %)

-  from 15 to 47,5
-  from 47,5 to 49
-  from 49 to 51
-  from 51 to 53
-  from 53 to 59
-  no inhabitant
-  Green belt
-  Infrastructures

Source: UNHCR census, July 1998



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IFO Percentage of men

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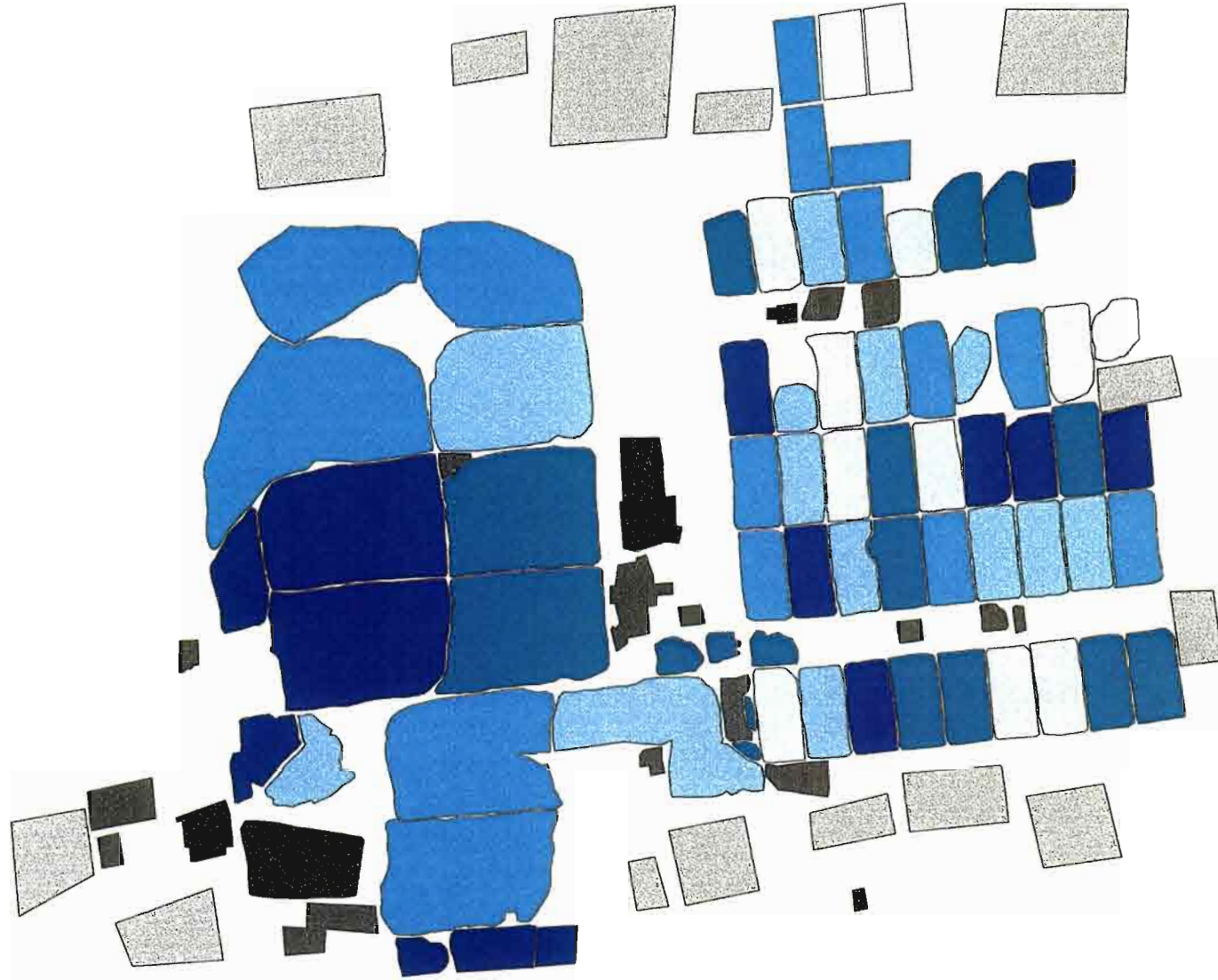
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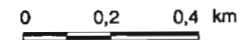
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Number of men
(in %)

- from 41 to 47
- from 47 to 49
- from 49 to 51
- from 51 to 52,5
- from 52,5 to 85
- no inhabitant
- Green belt
- Infrastructures

Source: UNHCR census, July 1998



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IFO Sexe ratio

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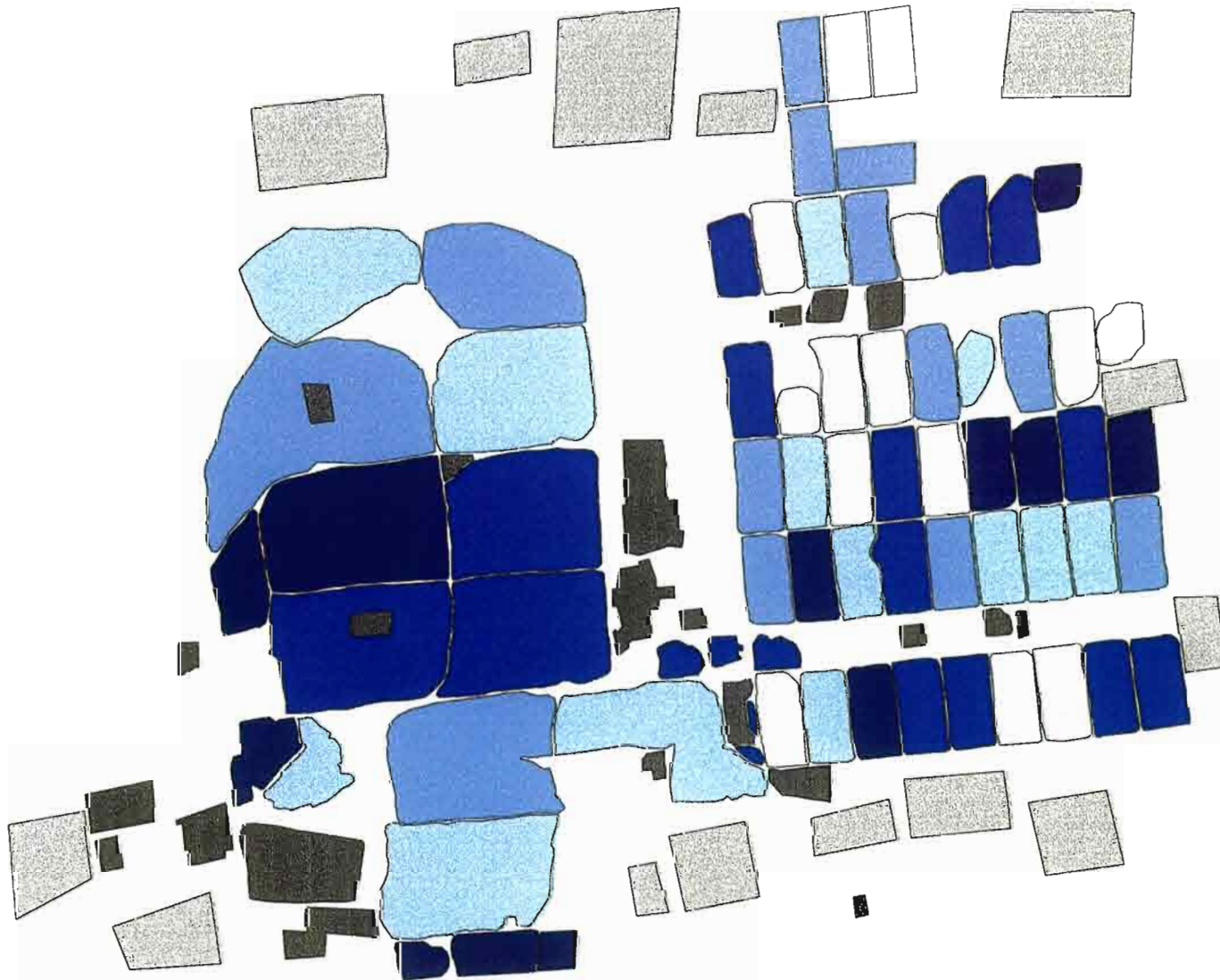
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Sexe ratio
(in %)

-  from 69 to 91
-  from 91 to 97
-  from 97 to 104
-  from 104 to 111
-  from 111 to 558
-  no inhabitant
-  Green belt
-  Infrastructures

Source: UNHCR census, July 1998

0 0,2 0,4 km

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IFO Children under five

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




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Percentage of children under 5 (by block)

-  from 0 to 12,5
-  from 12,5 to 14
-  from 14 to 15,5
-  from 15,5 to 18
-  from 18 to 27,5
-  (I) no inhabitant
-  Green belt
-  Infrastructures

Source: UNHCR census, July 1998

0 0,2 0,4 km

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IFO

Number of families by block

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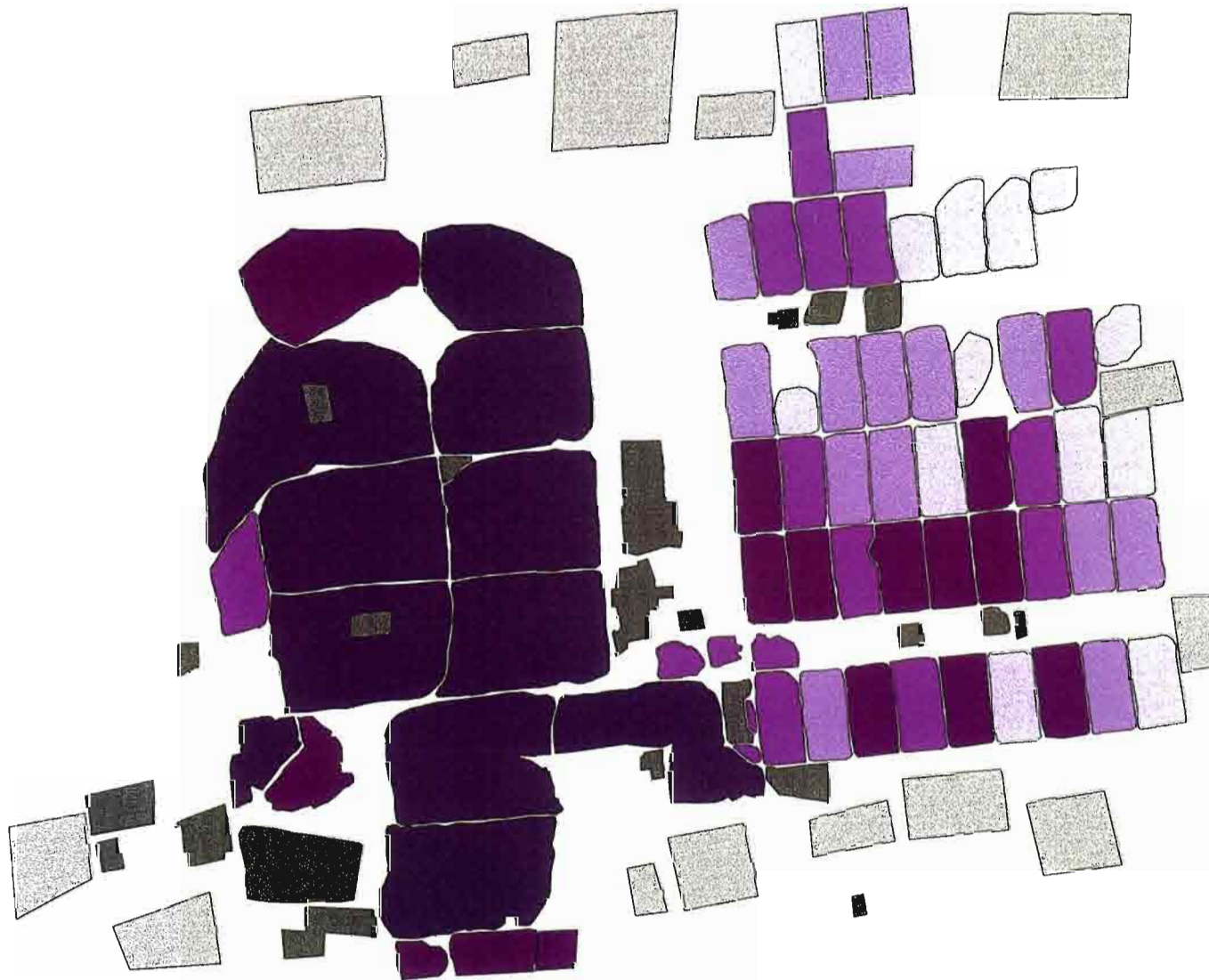
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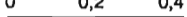


Number of families

-  from 3 to 68
-  from 68 to 95
-  from 95 to 129
-  from 129 to 233
-  no inhabitant
-  Green belt
-  Infrastructures

Source: UNHCR census, July 1998

0 0,2 0,4 km



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IFO

Family size: 1 person

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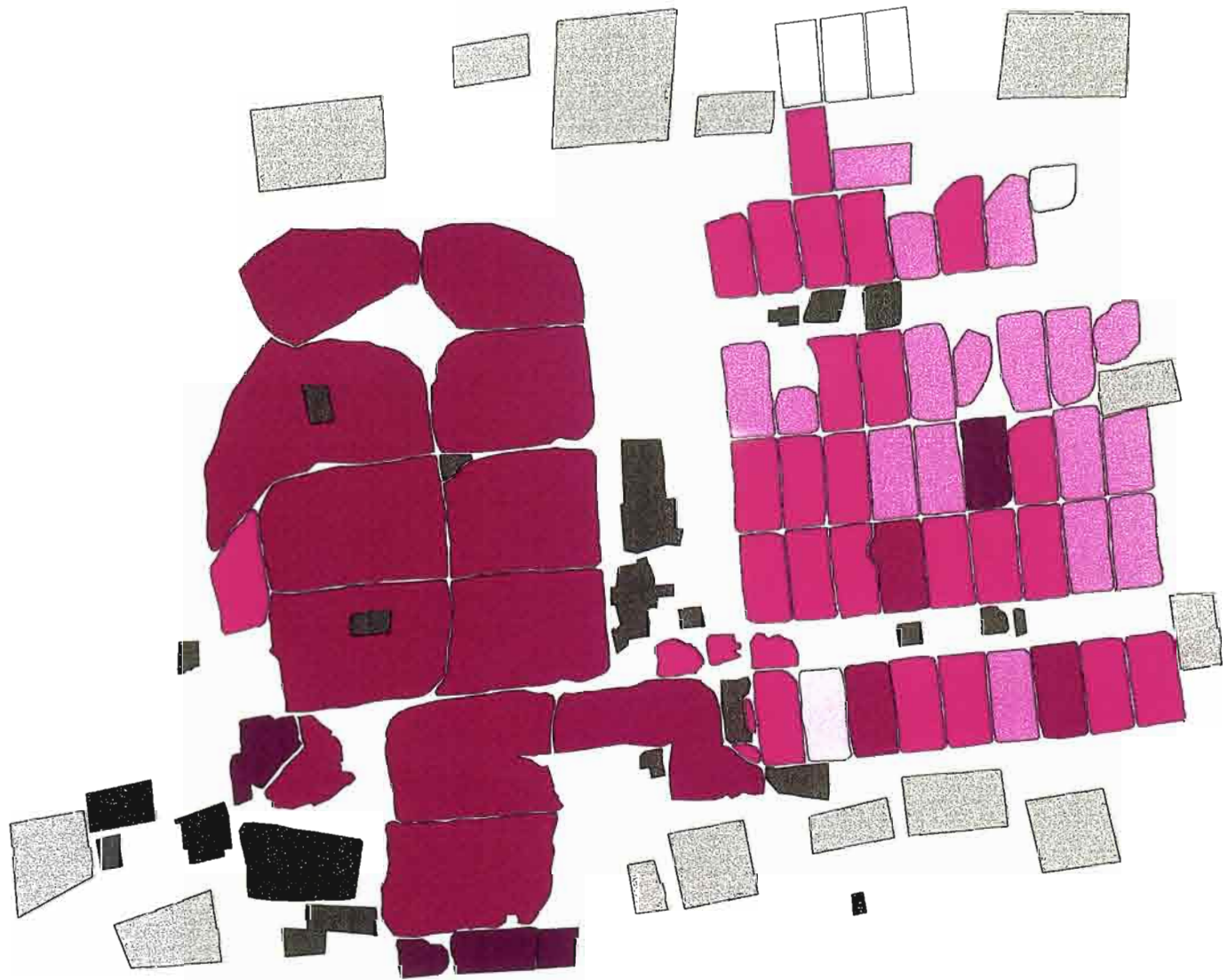
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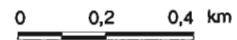
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Number of families

- from 1 to 3
- from 3 to 8
- from 8 to 24
- from 24 to 69
- from 69 to 201
- no inhabitant
- Green belt
- Infrastructures

Source: UNHCR census, July 1998



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IFO

Family size: from 2 to 4 persons

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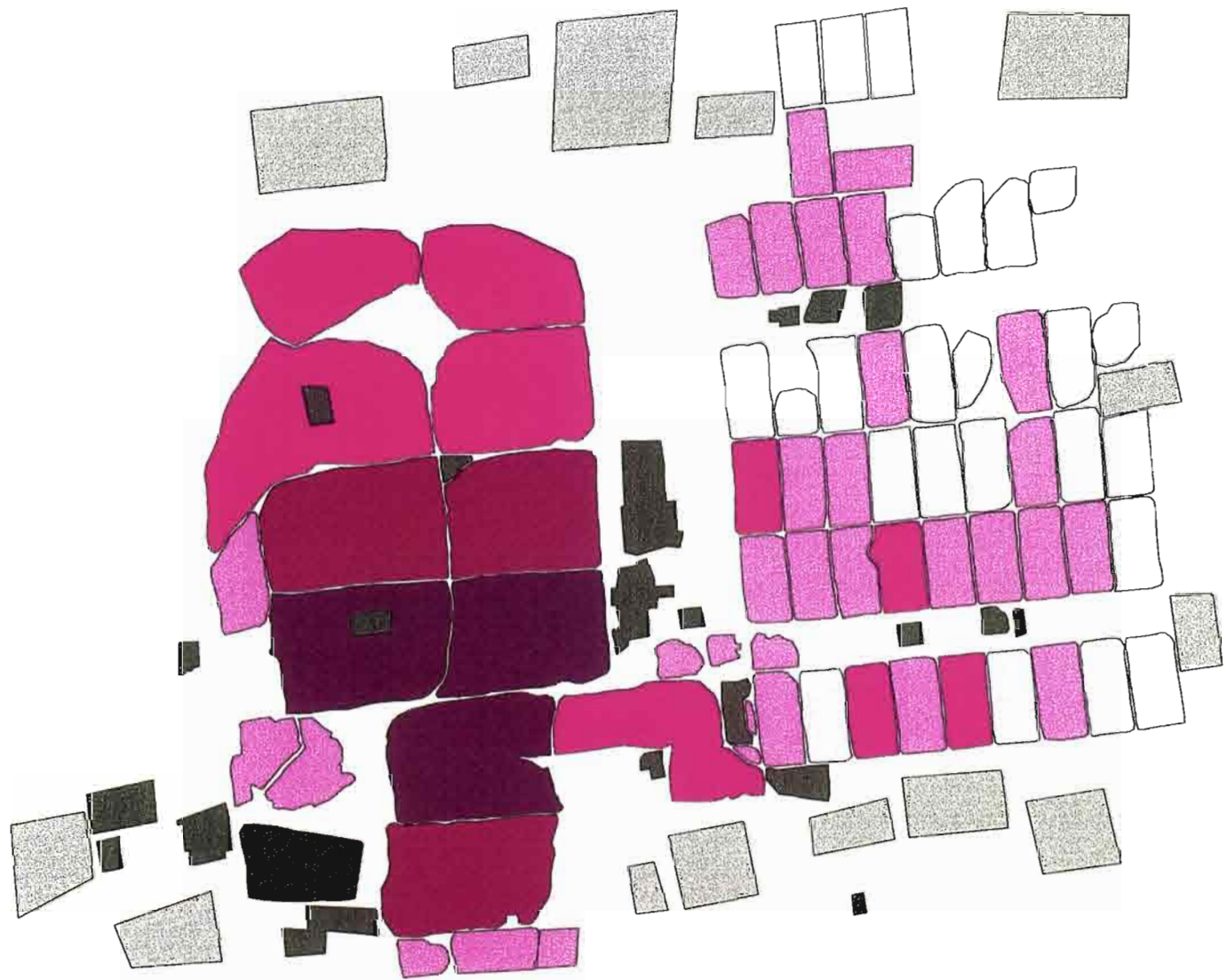
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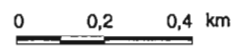
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Number of families

- from 2 to 37
- from 37 to 87
- from 87 to 137
- from 137 to 188
- from 188 to 234
- no inhabitant
- Green belt
- Infrastructures

Source: UNHCR census, July 1998



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IFO

Family size: from 5 to 7 persons

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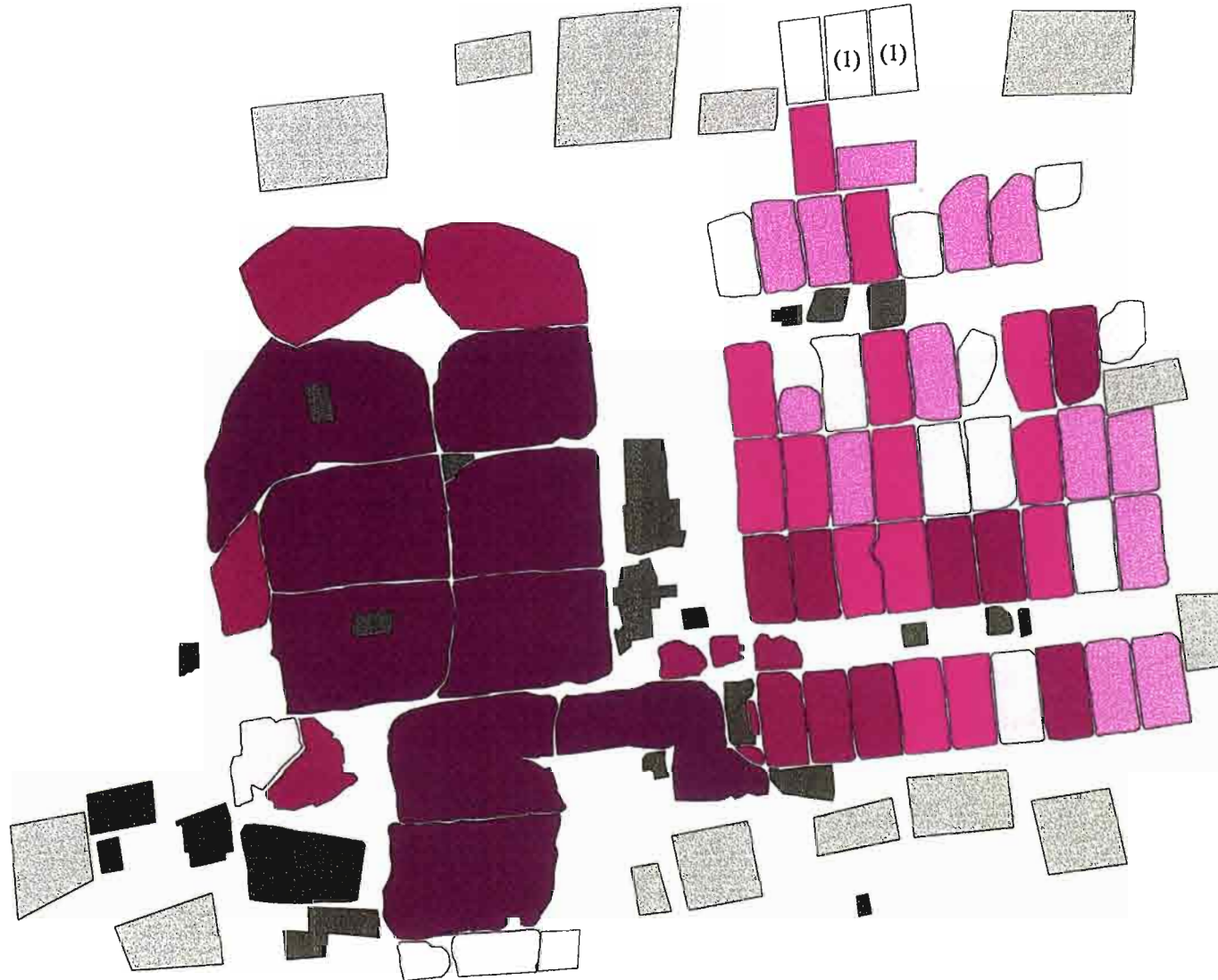
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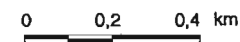
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Number of families

- from 0 to 23
- from 23 to 35
- from 35 to 48
- from 48 to 100
- from 100 to 321
- (1) no inhabitant
- Green belt
- Infrastructures

Source: UNHCR census, July 1998



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IFO

Family size: from 8 to 11 persons

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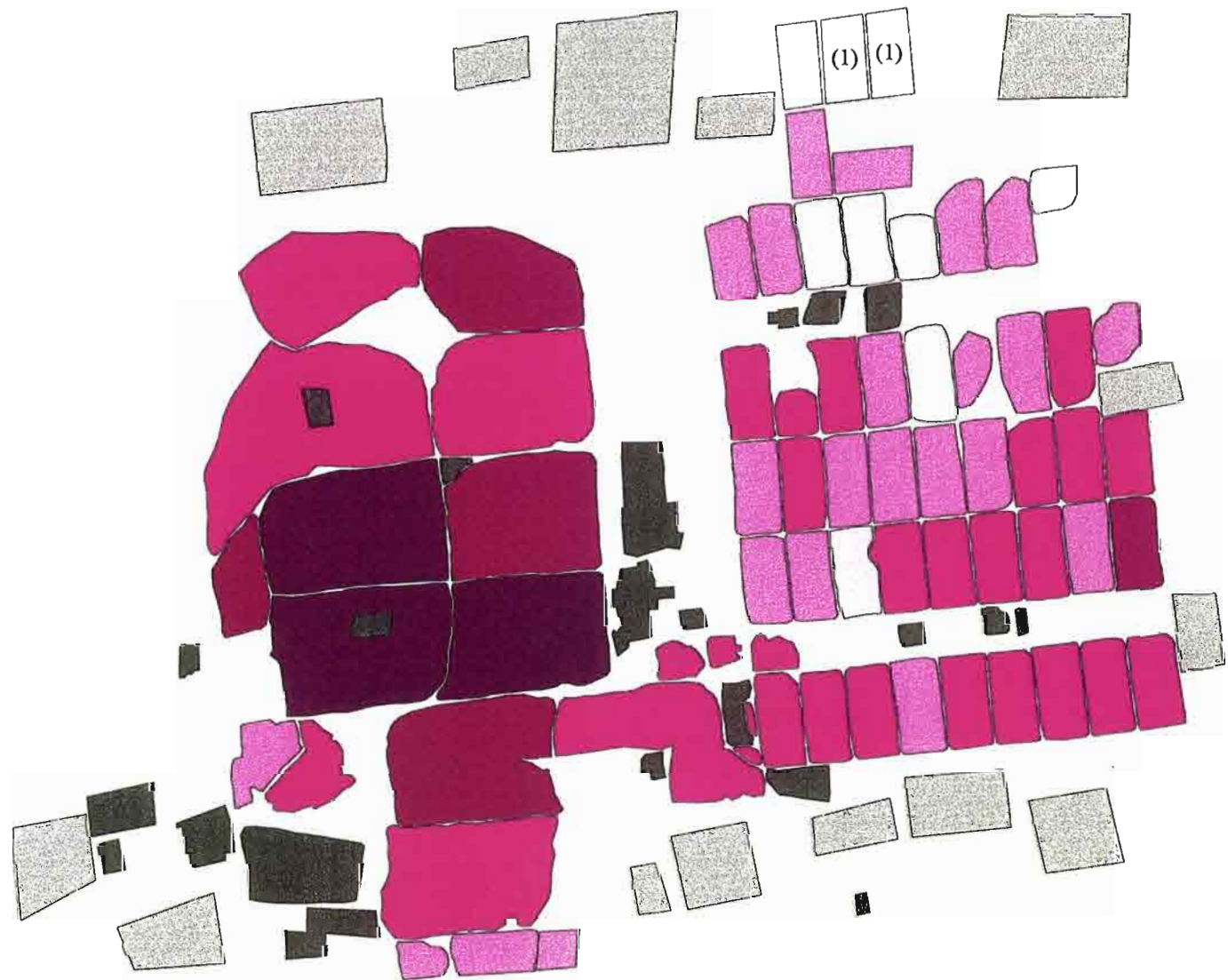
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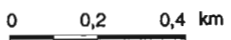
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Number of families

- from 0 to 2
- from 2 to 5
- from 5 to 12
- from 12 to 27
- from 27 to 65
- (1) no inhabitant
- Green belt
- Infrastructures

Source: UNHCR census, July 1998



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IFO

Principal district of origin

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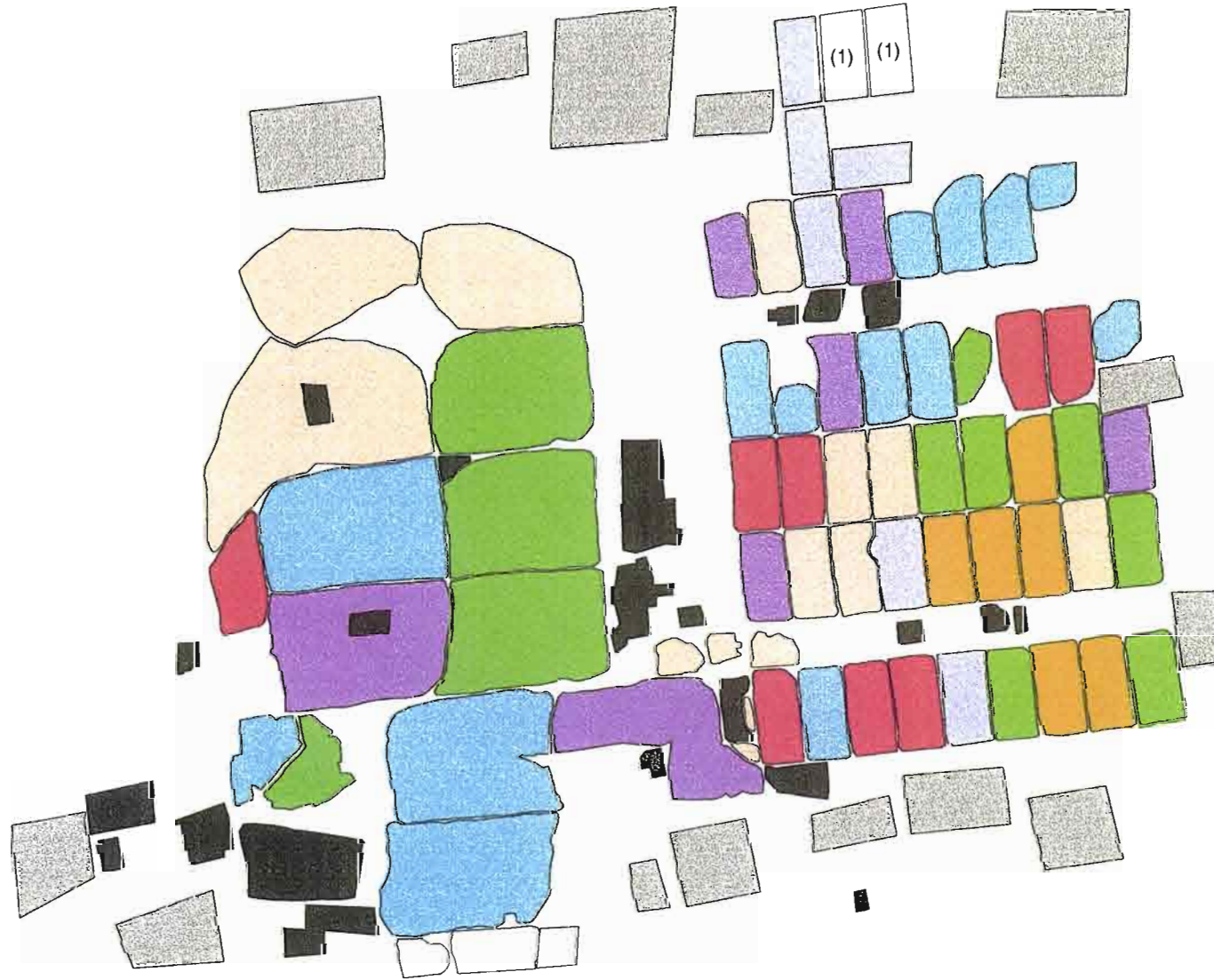
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Districts of origin

- Afmadow
- Badade
- Baidoa
- Bardera
- Bu'ale
- Kismayo
- Mogadisho
- (1) no inhabitant
- Green belt
- Infrastructures

Source: UNHCR census, July 1998



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IFO

Secondary ethnic group in somalian refugees

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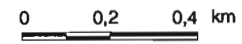
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- Ethnic group (in %)**
- | | |
|---|--|
| Garjante | Harti |
| 0,3 to 14 | 0,3 to 6 |
| 14 to 43 | 6 to 20 |
| mean: 14 | mean: 6 |
| Mirifle | Absame |
| 1 to 10 | 9 to 20 |
| 10 to 28 | 20 to 40 |
| mean: 10 | mean: 20 |
| Reer Bar | Harti-Garjante |
| 12 | 0,4 |
| (1) no inhabitant | |
| Green belt | |
| Infrastructures | |

Source: UNHCR census, July 1998



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IFO

Principal ethnic group in somalian refugees

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Ethnic group (in %)

Garjante

- 14 to 37
- 37 to 50
- mean: 37

Mirifle

- 33 to 47
- 47 to 64
- mean: 47

Absame

- 18 to 64
- 64 to 98
- mean: 64

Reer Bar

- 59

Harti

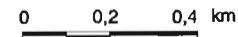
- 11 to 15
- mean: 13

(1) no inhabitant

Green belt

Infrastructures

Source: UNHCR census July 1998



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IFO

Secondary district of origin

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Districts of origin

- Afmadow
- Badade
- Baidoa
- Bardera
- Bu'ale
- Kismayo
- Mogadisho
- (1) no inhabitant
- Green belt
- Infrastructures

0 0,2 0,4 km

Source: UNHCR census, July 1998

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Ethnic group in somalian refugees: Baantuu

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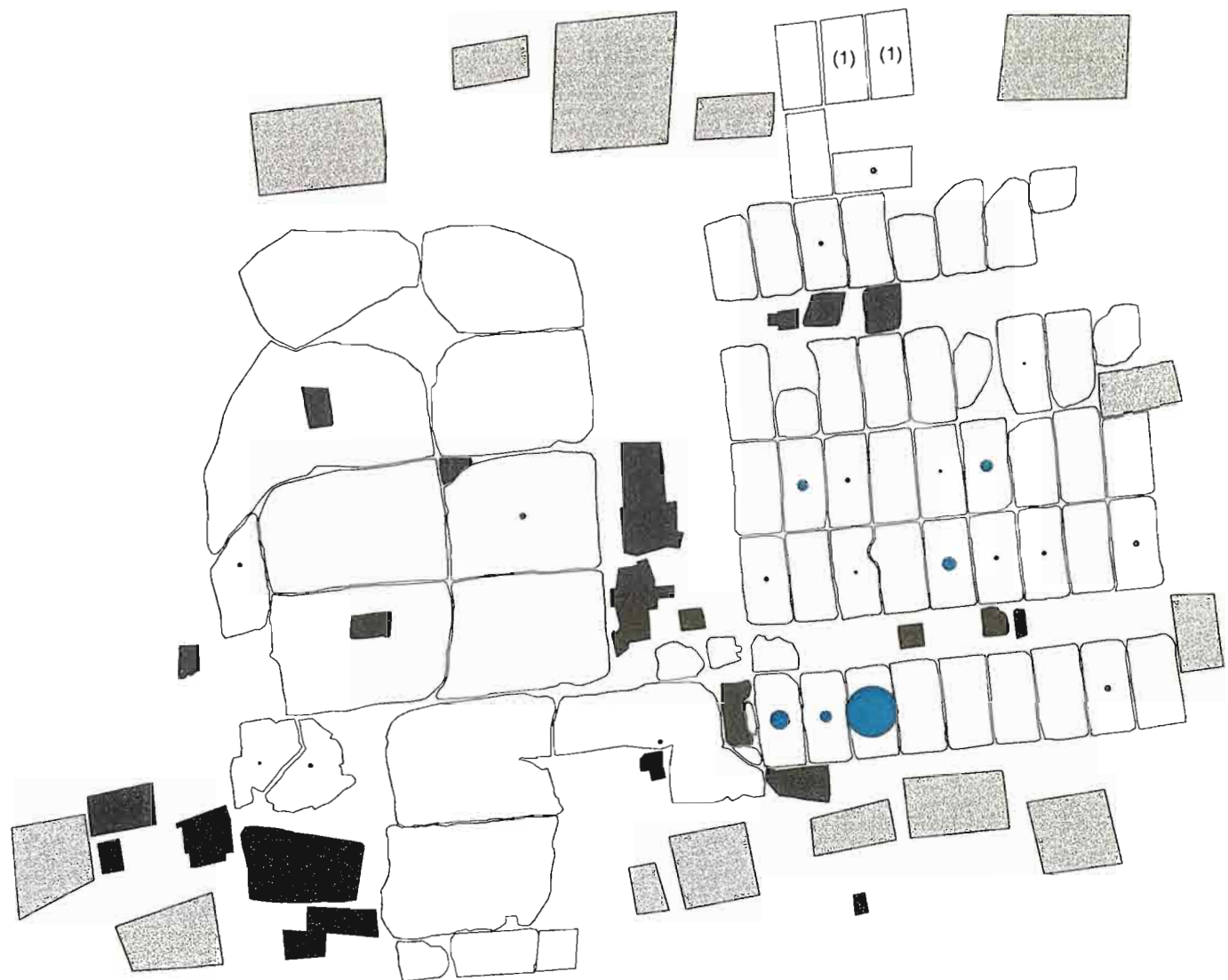
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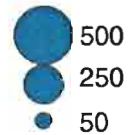
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Number of refugees

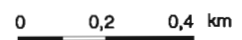


(1) no inhabitant

Green belt

Infrastructures

Source: UNHCR census, July 1998



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DAGAHLEY

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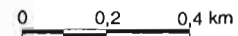
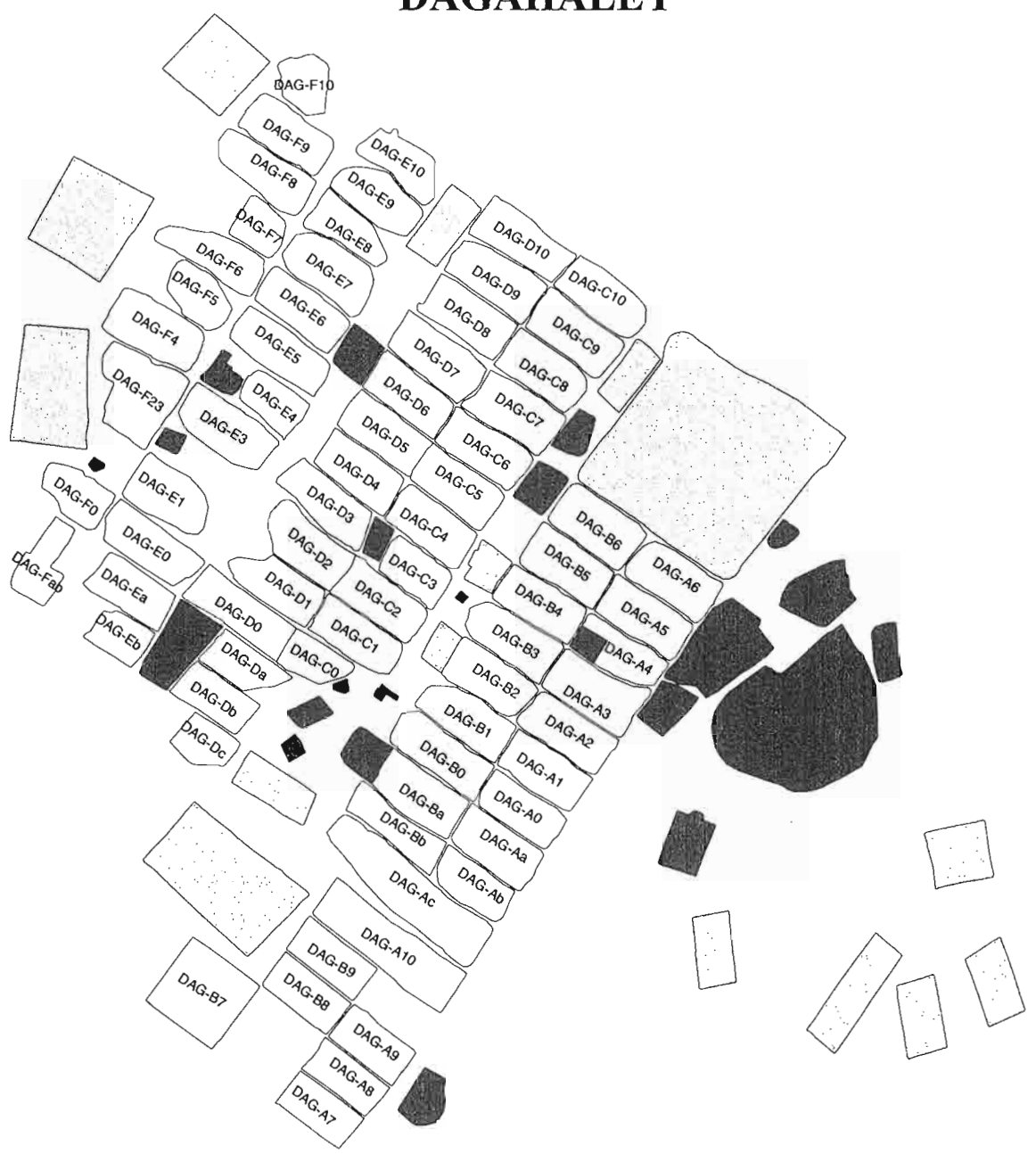
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

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10020



Source: UNHCR census, July 1998

-  Block of refugees
-  Green belt
-  Infrastructures

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DAGAHALEY

Total of population

10022

10022

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Number of inhabitants

from 101 to 255

from 255 to 335

from 335 to 430

from 430 to 555

from 555 to 1088

Green belt

Infrastructures

0 0,2 0,4 km

Source: UNHCR census, July 1998

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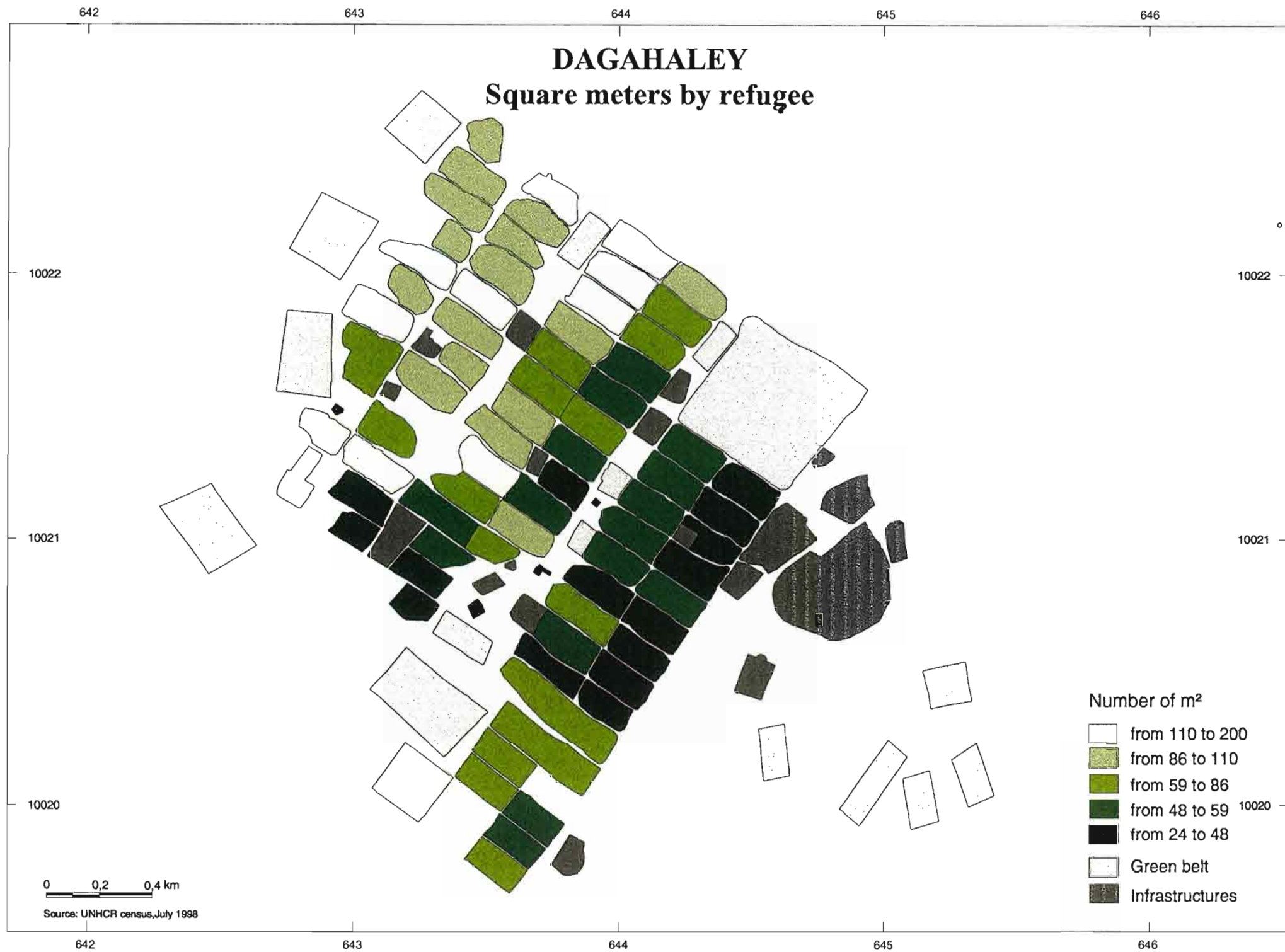
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DAGAHALEY

Square meters by refugee



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DAGAHALEY

Percentage of women

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Number of women
(in %)

-  from 28 to 47,5
-  from 47,5 to 49
-  from 49 to 50,5
-  from 50,5 to 52
-  from 52 to 58,5
-  Green belt
-  Infrastructures

0 0,2 0,4 km



Source: UNHCR census, July 1998

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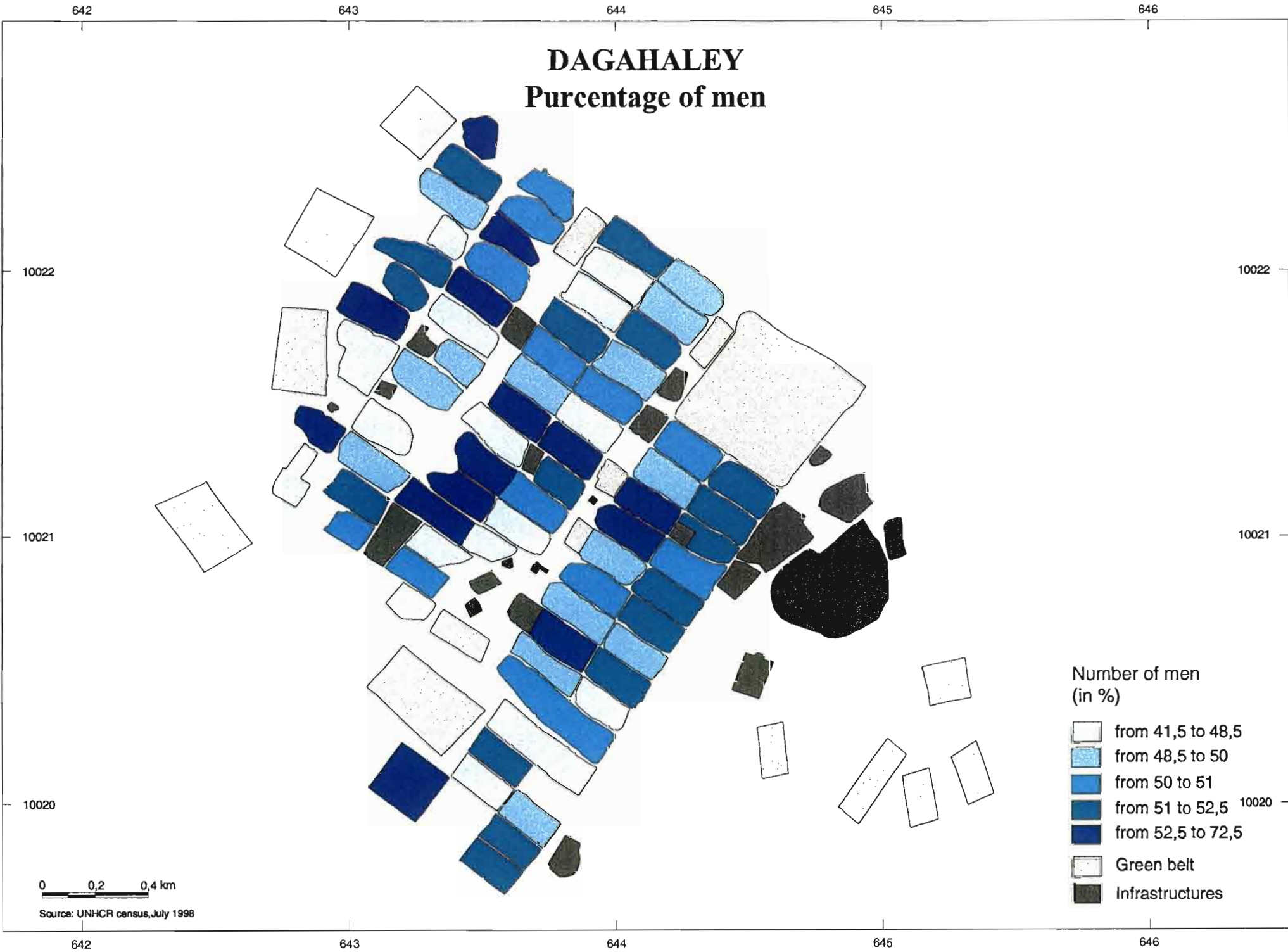
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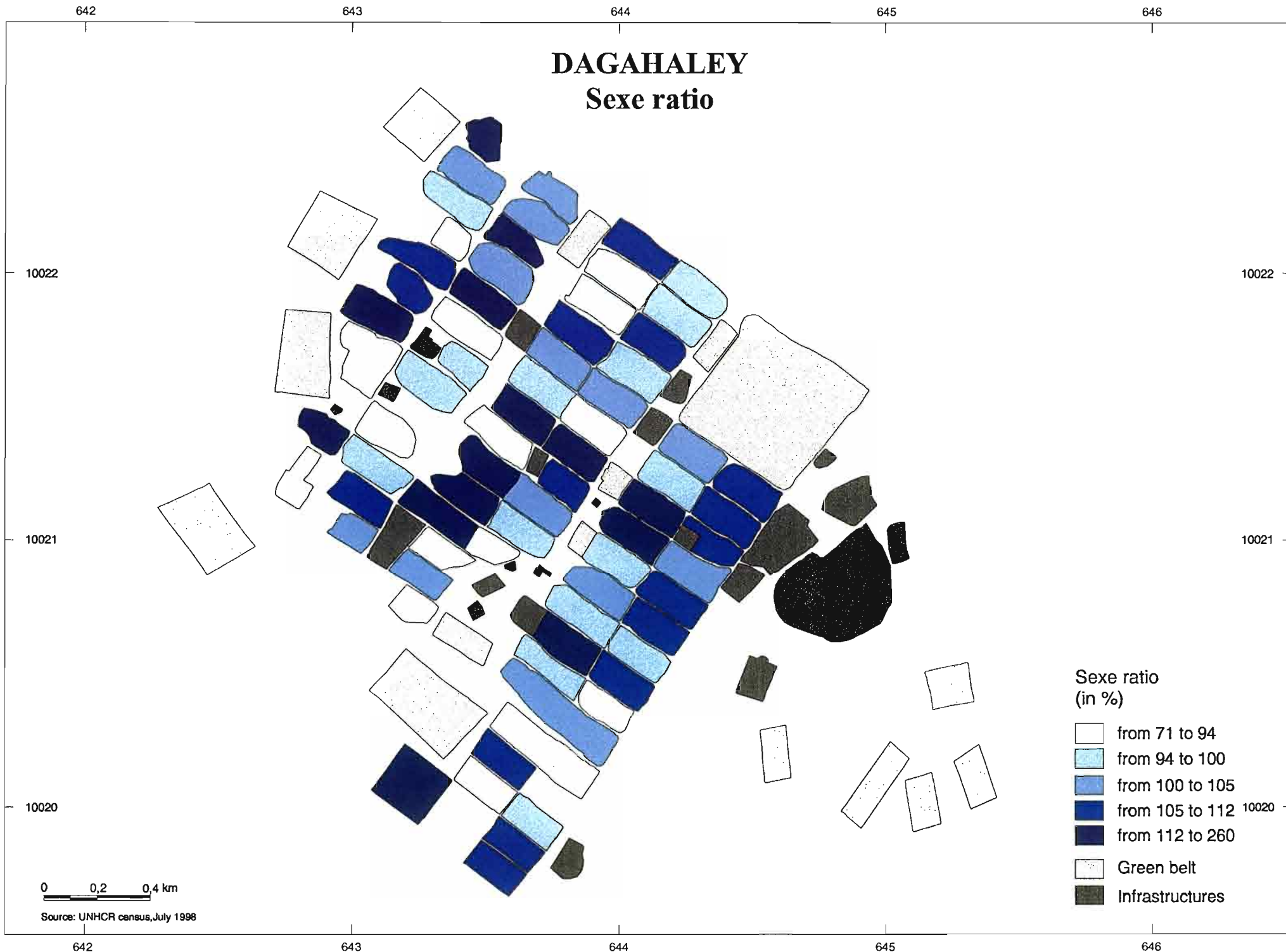
DAGAHALEY

Purcentage of men



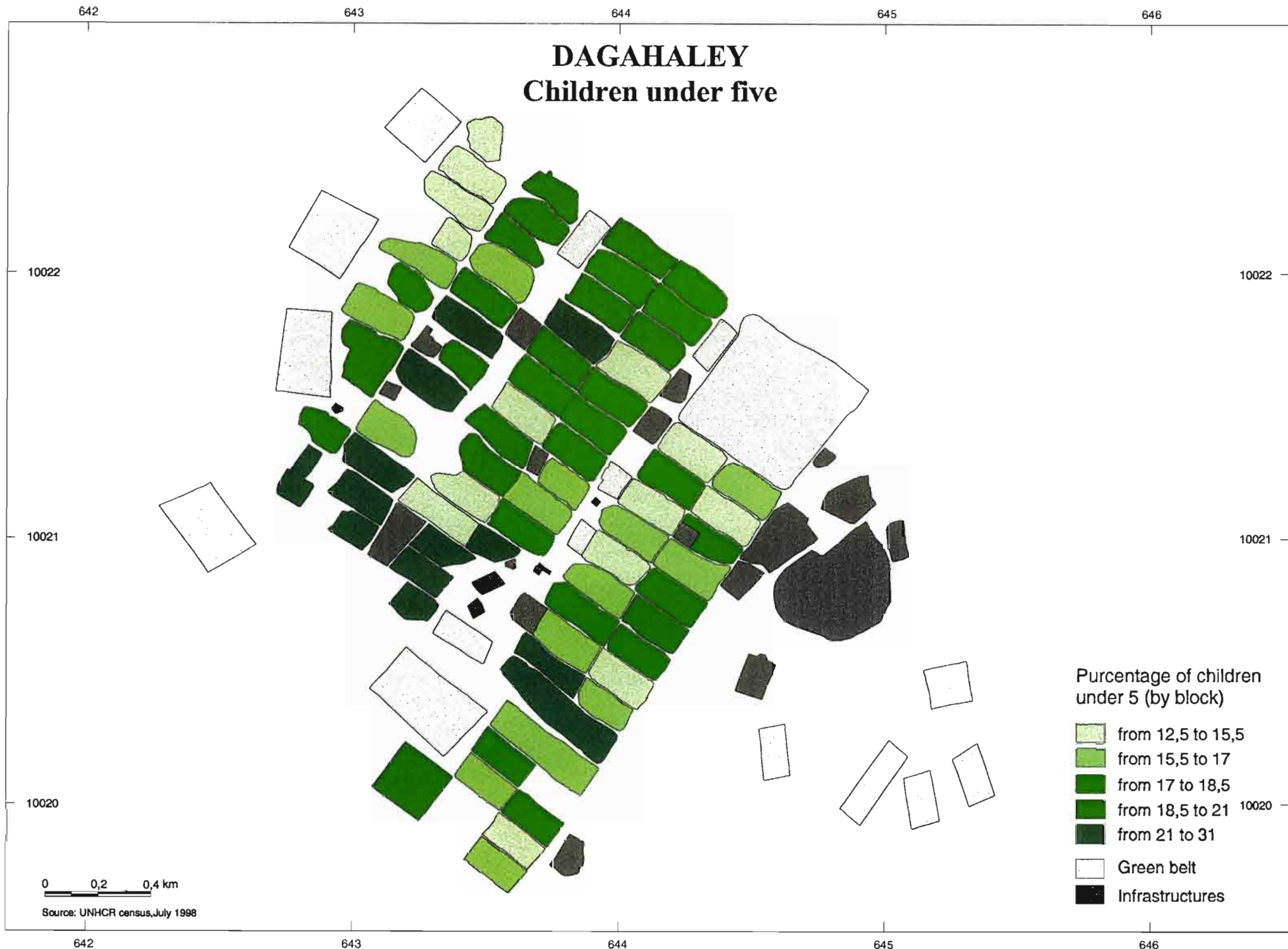
DAGAHALEY

Sexe ratio



DAGAHALEY

Children under five



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DAGAHALEY

Number of families by block

10022

10022








10021

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Number of families

-  from 24 to 64
-  from 64 to 82
-  from 82 to 110
-  from 110 to 141
-  from 141 to 342
-  Green belt
-  Infrastructures

0 0,2 0,4 km

Source: UNHCR census, July 1998

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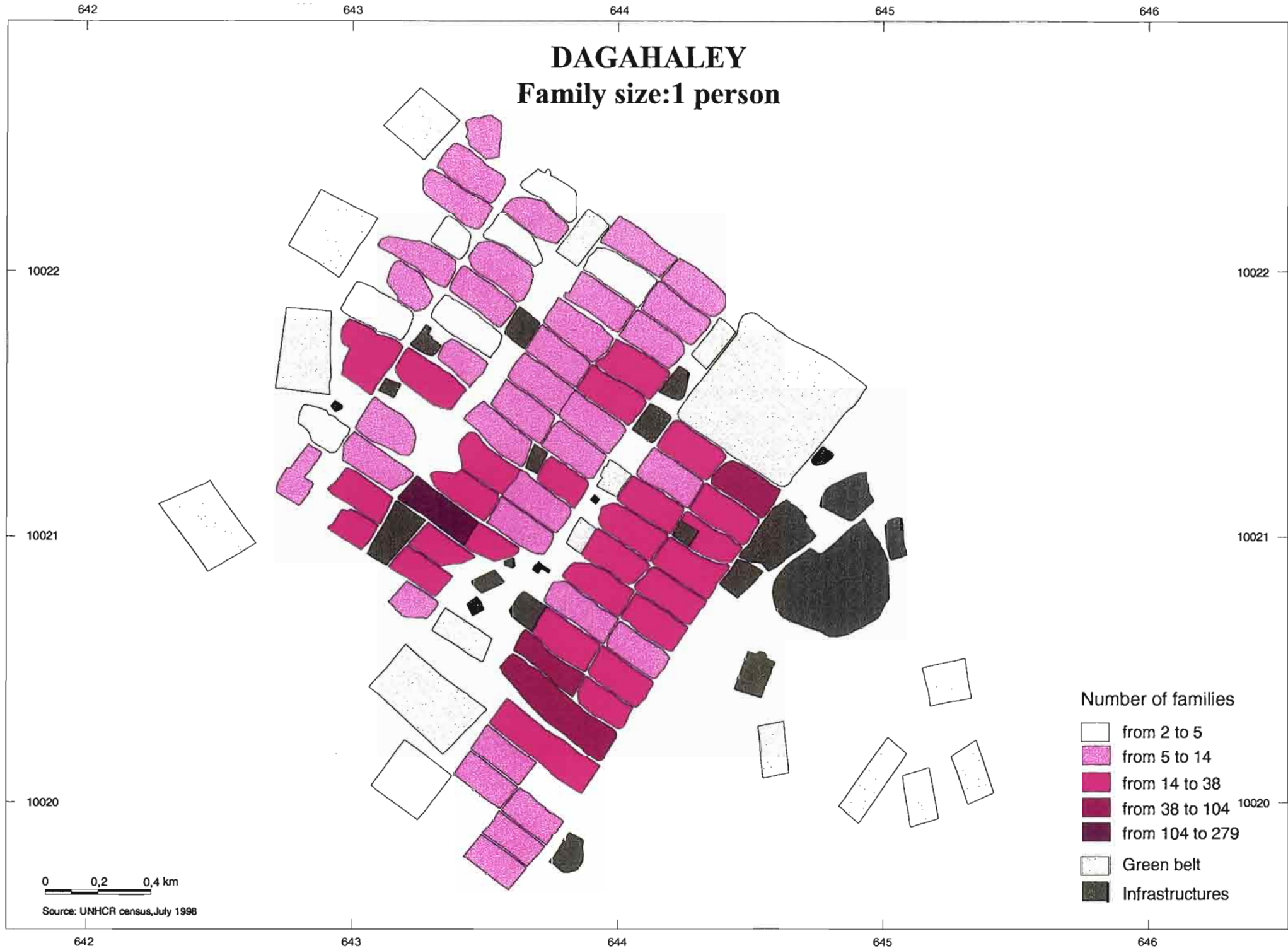
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DAGAHALEY

Family size: 1 person



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DAGAHALEY

Family size: from
2 to 4 persons

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Number of families

-  from 9 to 29
-  from 29 to 49
-  from 49 to 69
-  from 69 to 89
-  from 89 to 109
-  Green belt
-  Infrastructures

0 0,2 0,4 km



Source: UNHCR census, July 1998

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DAGAHALEY

Family size: from 5 to 7 persons

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Number of families

-  from 11 to 17
-  from 17 to 27
-  from 27 to 42
-  from 42 to 67
-  from 67 to 104
-  Green belt
-  Infrastructures

0 0,2 0,4 km



Source: UNHCR census, July 1998

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DAGAHALEY

Family size: from
8 to 11 persons

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
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Number of families

-  from 0 to 2
-  from 2 to 3
-  from 3 to 5
-  from 5 to 9
-  de from to 16
-  Green belt
-  Infrastructures

0 0,2 0,4 km



Source: UNHCR census, July 1998

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DAGAHALEY

Principal district of origin

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Districts of origin

- Afmadow
- Bardera
- Bu'ale
- Jamame
- Jilib
- Kismayo
- Mogadisho
- Green belt
- Infrastructures

0 0,2 0,4 km

Source: UNHCR census, July 1998

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DAGAHALEY

Secondary district of origin

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Districts of origin

-  Afmadow
-  Bardera
-  Bu'ale
-  Jamame
-  Jilib
-  Kismayo
-  Mogadisho
-  Green belt
-  Infrastructures

0 0,2 0,4 km

Source: UNHCR census, July 1998

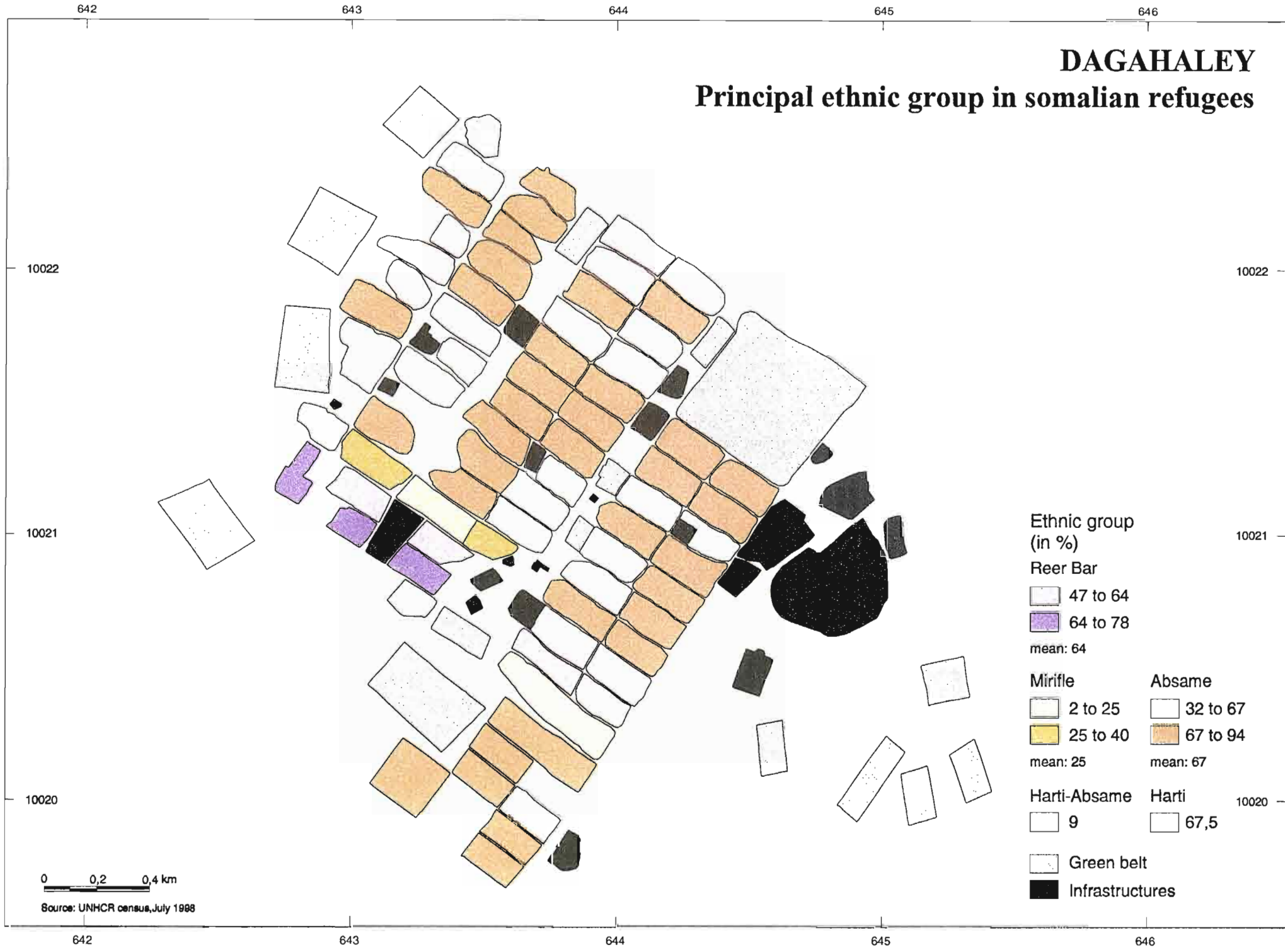
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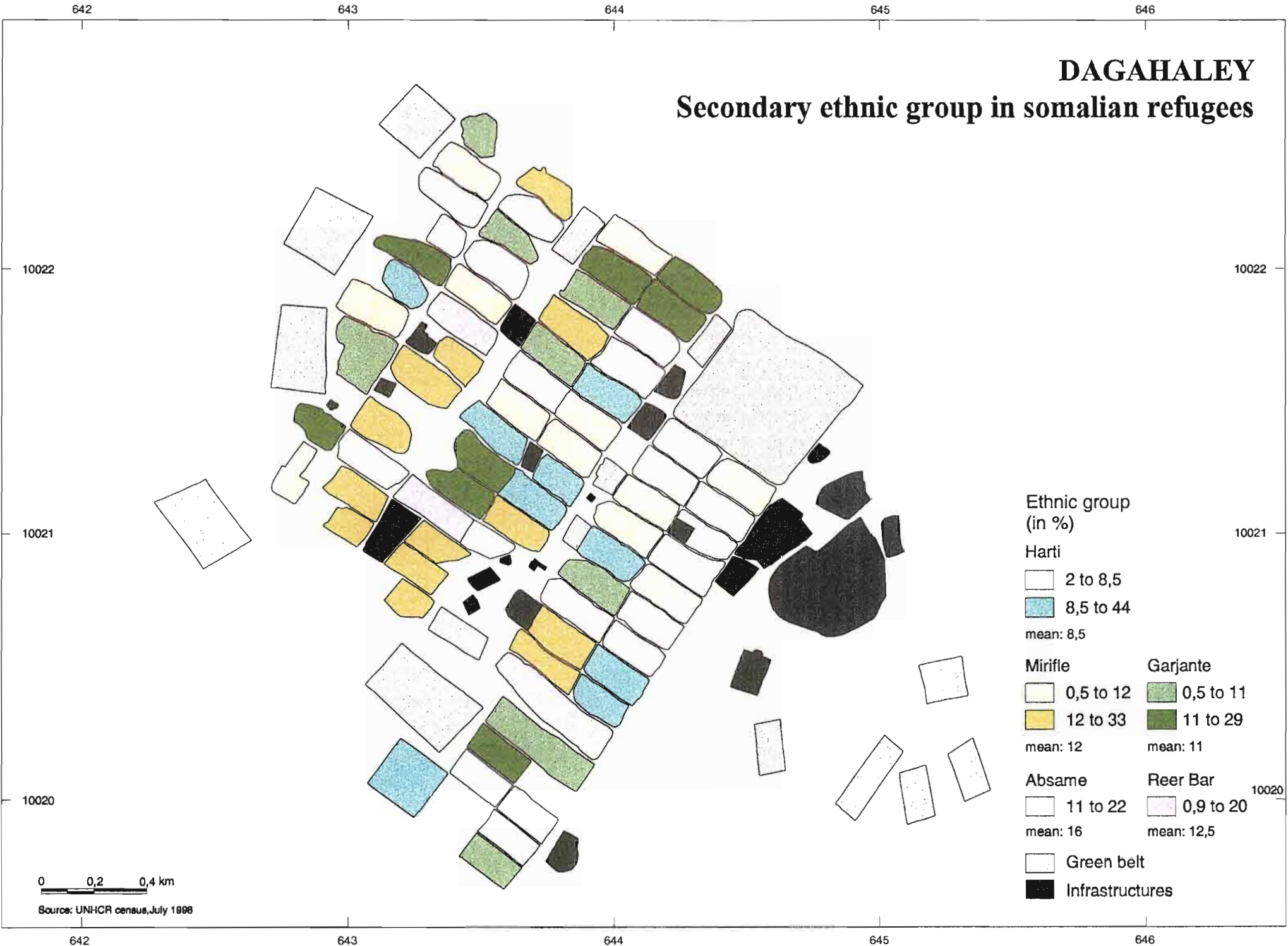
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DAGAHALEY

Secondary ethnic group in somalian refugees



DAGAHALEY

Ethnic group in somalian refugees: Baantuu



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HAGADERA

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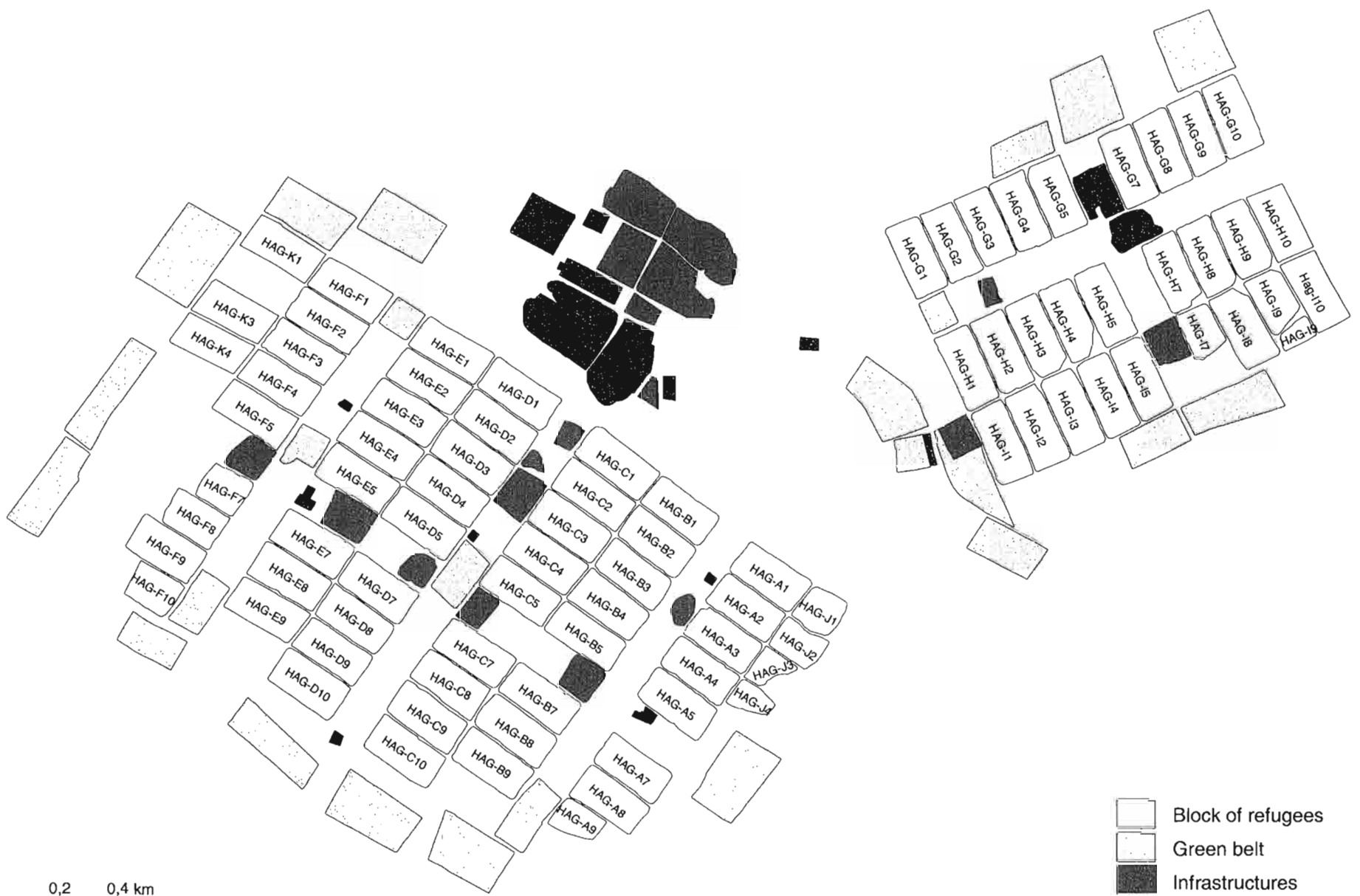
10000




9999

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0 0,2 0,4 km

Source: UNHCR census, July 1998



-  Block of refugees
-  Green belt
-  Infrastructures

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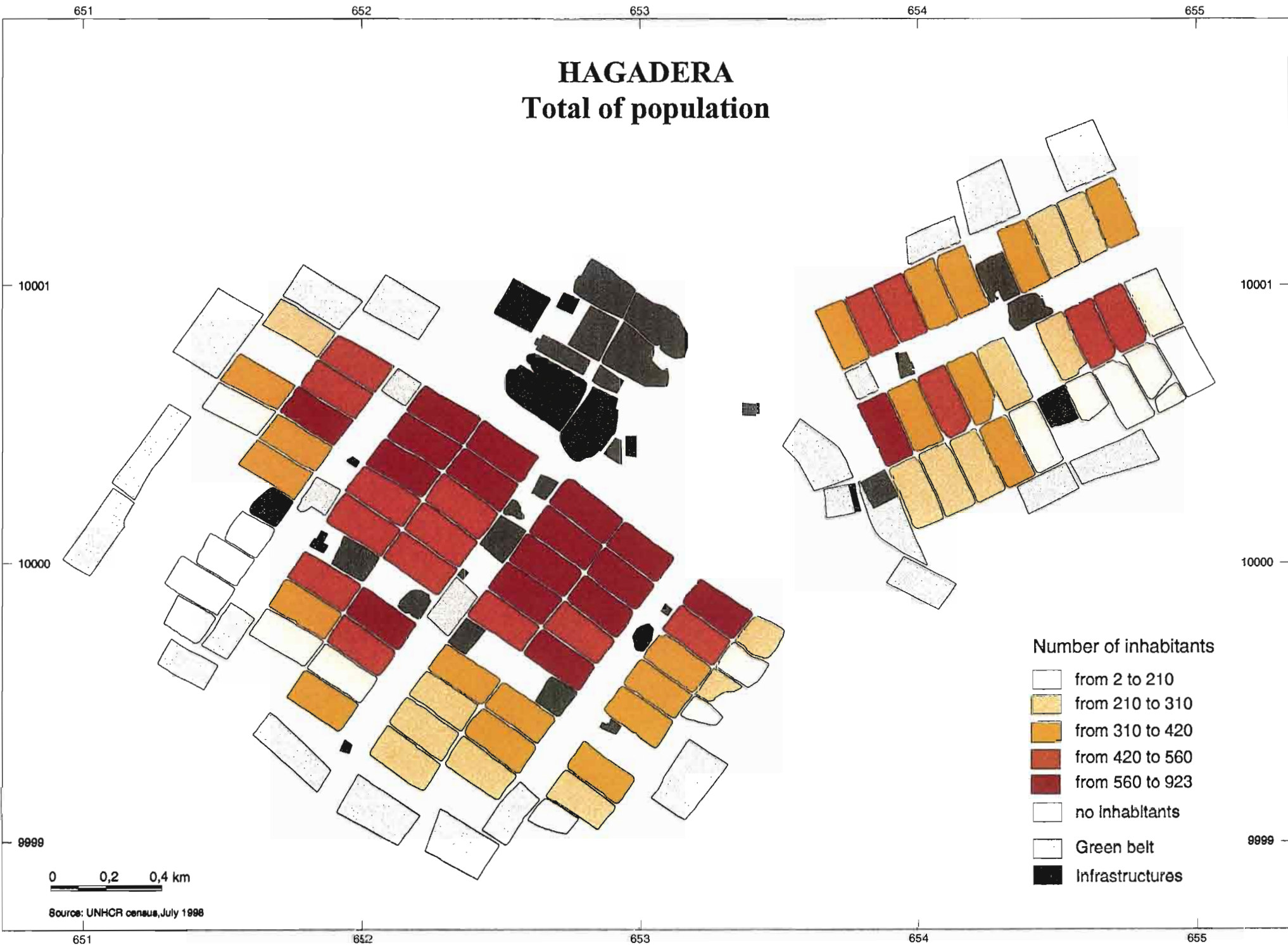
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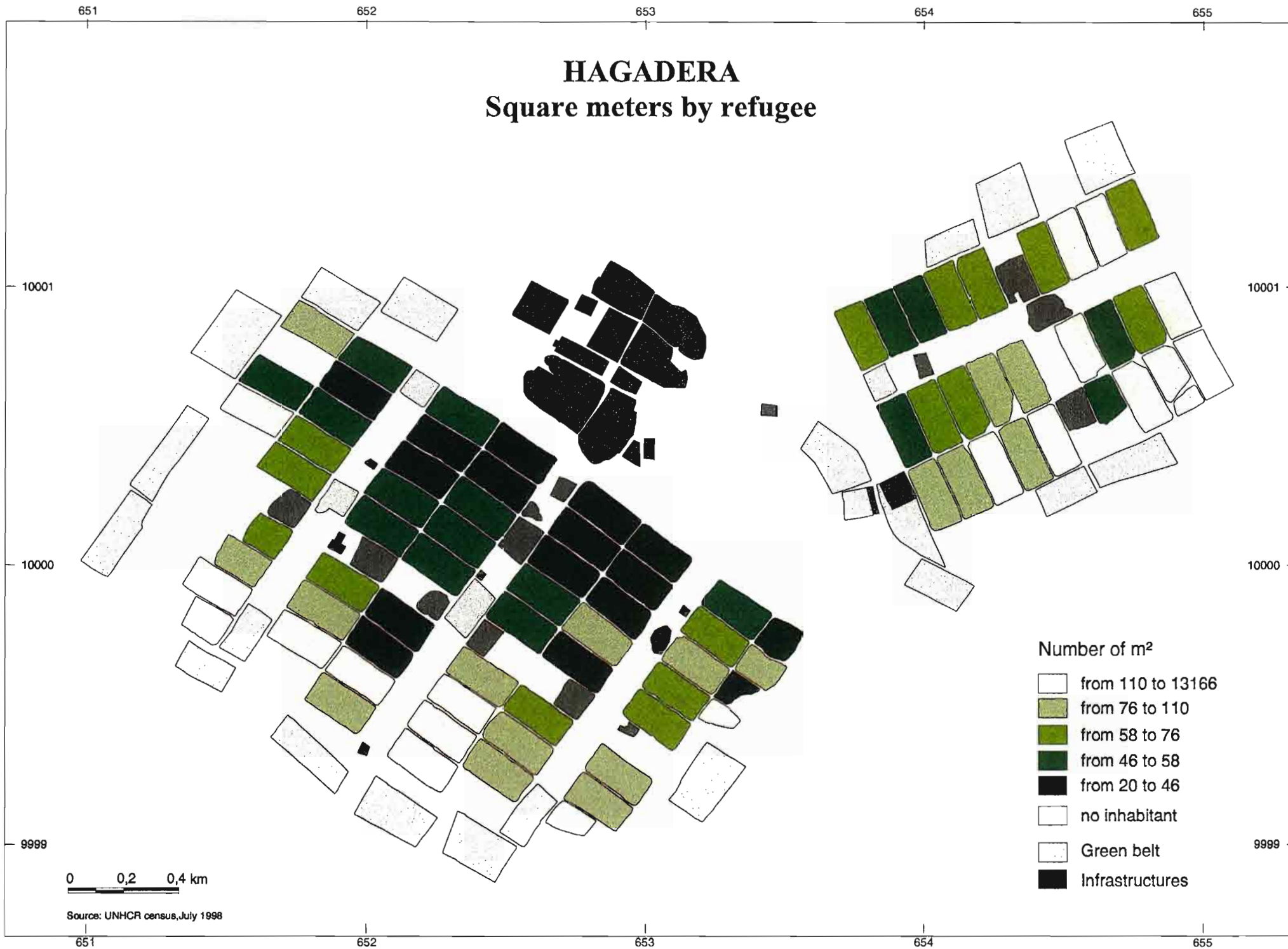
HAGADERA

Total of population



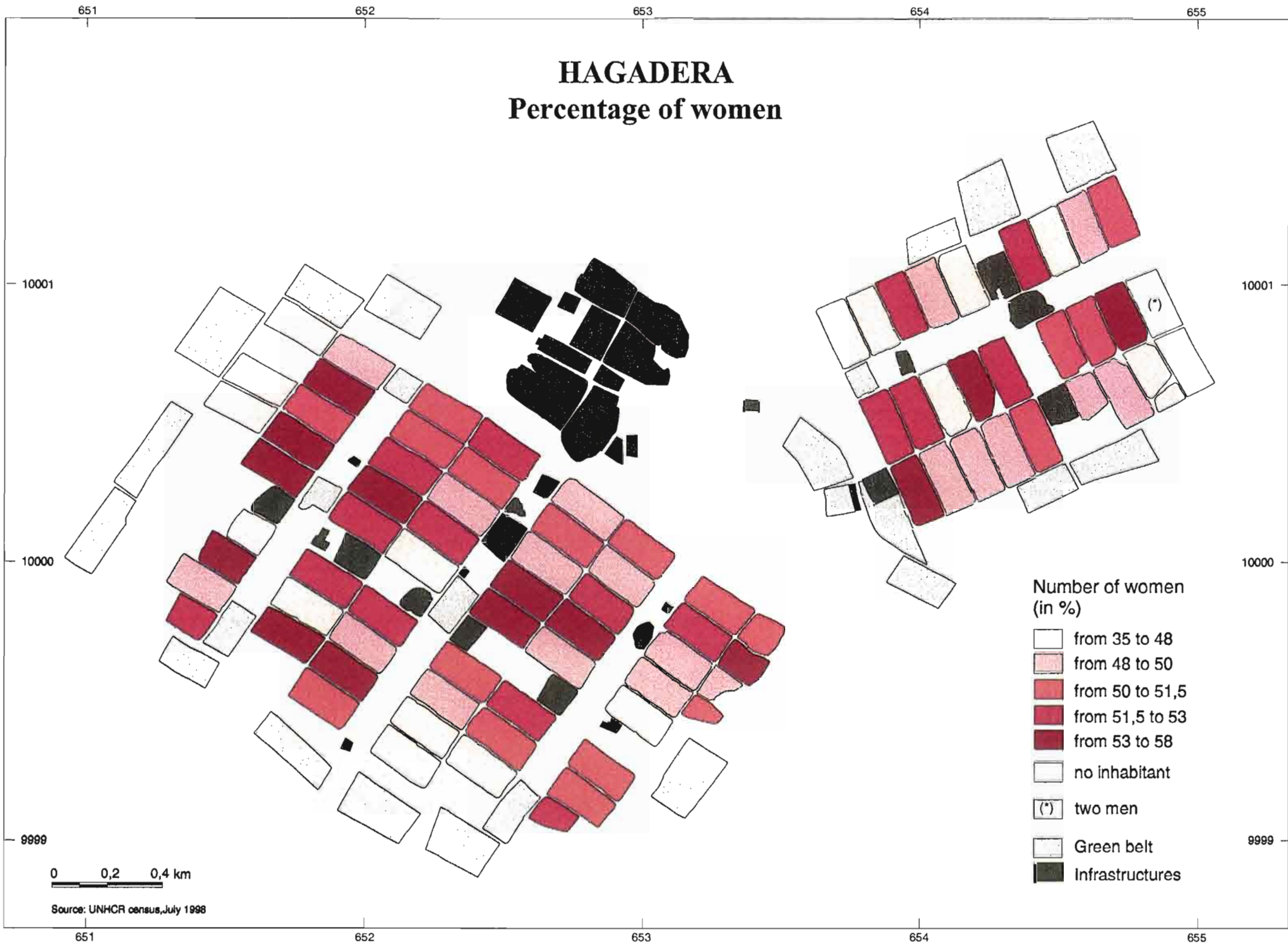
HAGADERA

Square meters by refugee



HAGADERA

Percentage of women



0 0,2 0,4 km

Source: UNHCR census, July 1998

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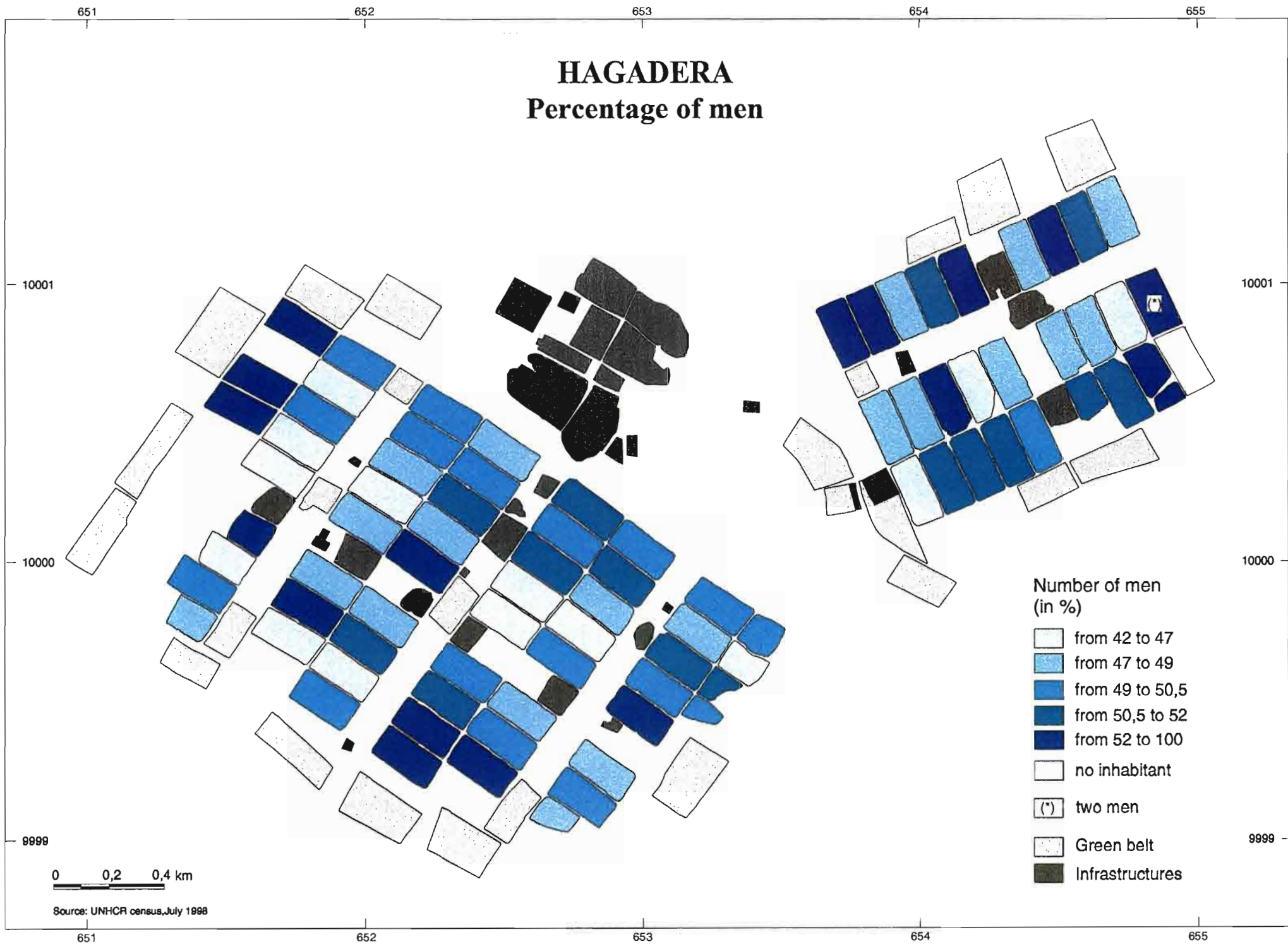
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HAGADERA

Percentage of men



0 0,2 0,4 km

Source: UNHCR census, July 1998

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HAGADERA

Sexe ratio

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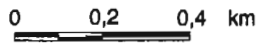
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9999



Source: UNHCR census, July 1998

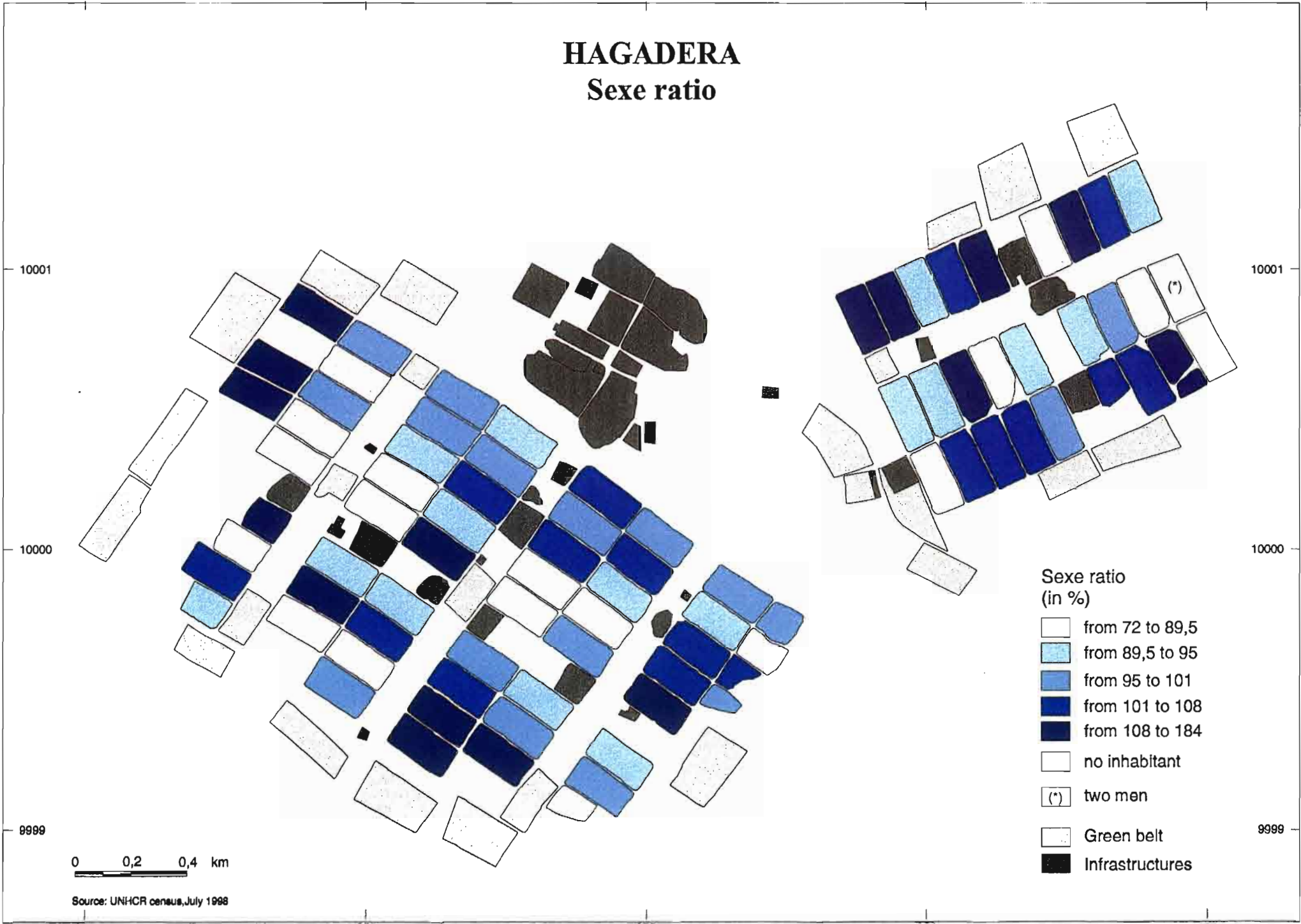
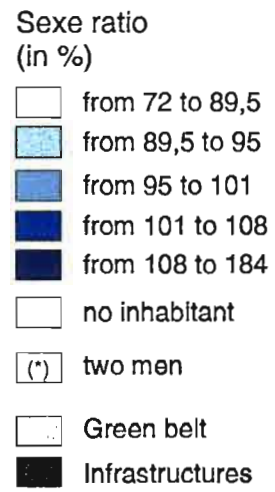
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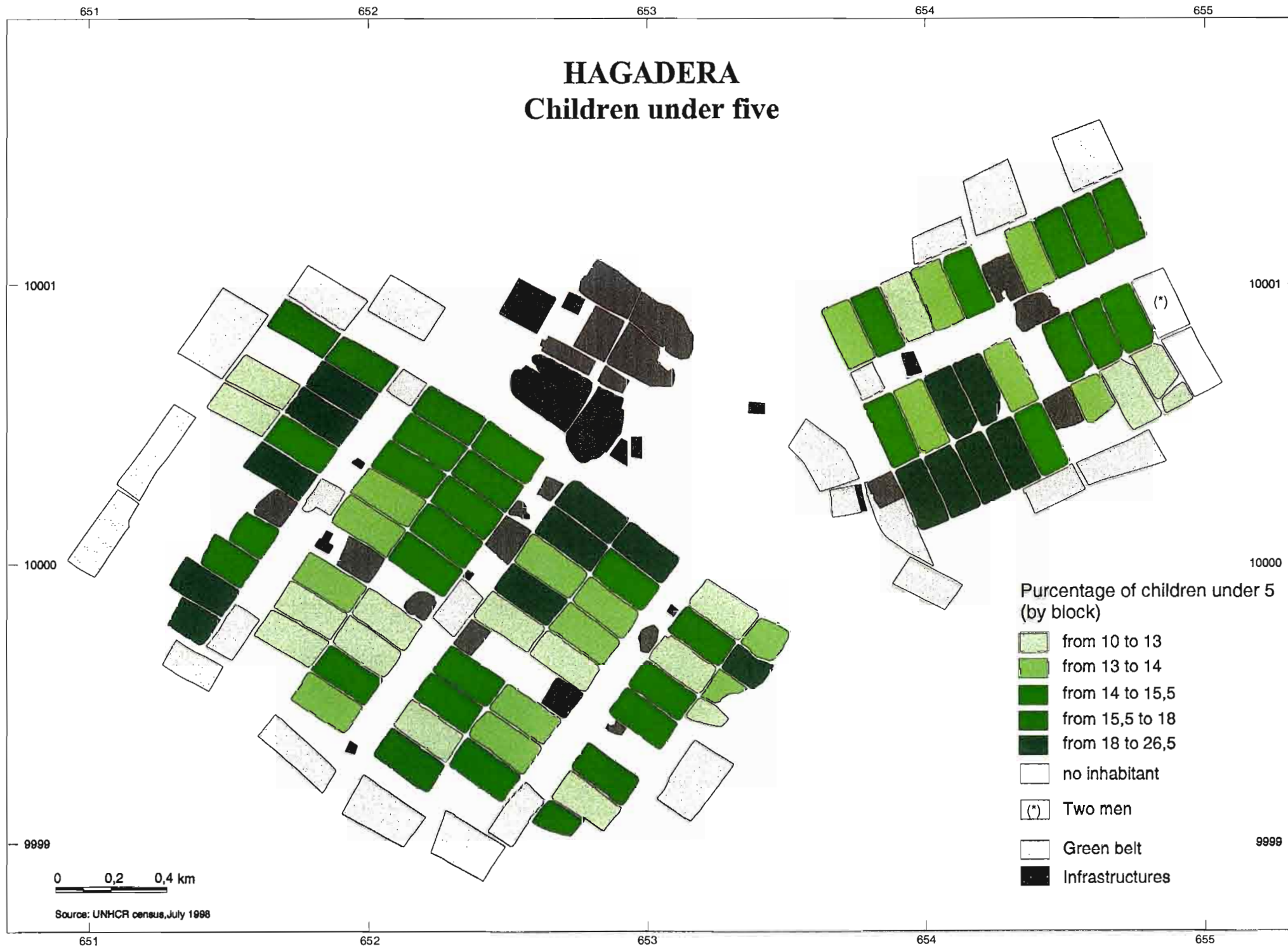
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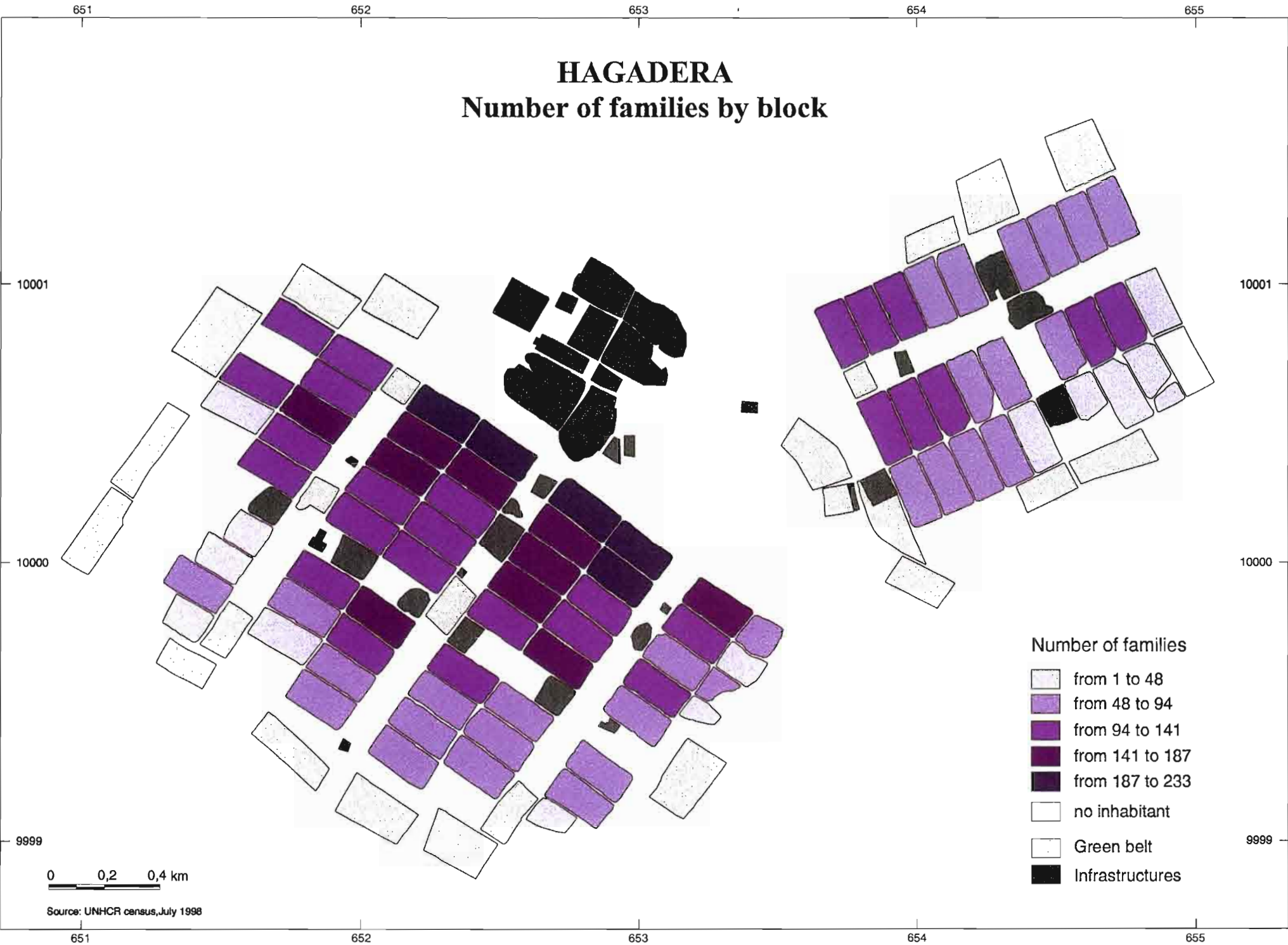
HAGADERA

Children under five



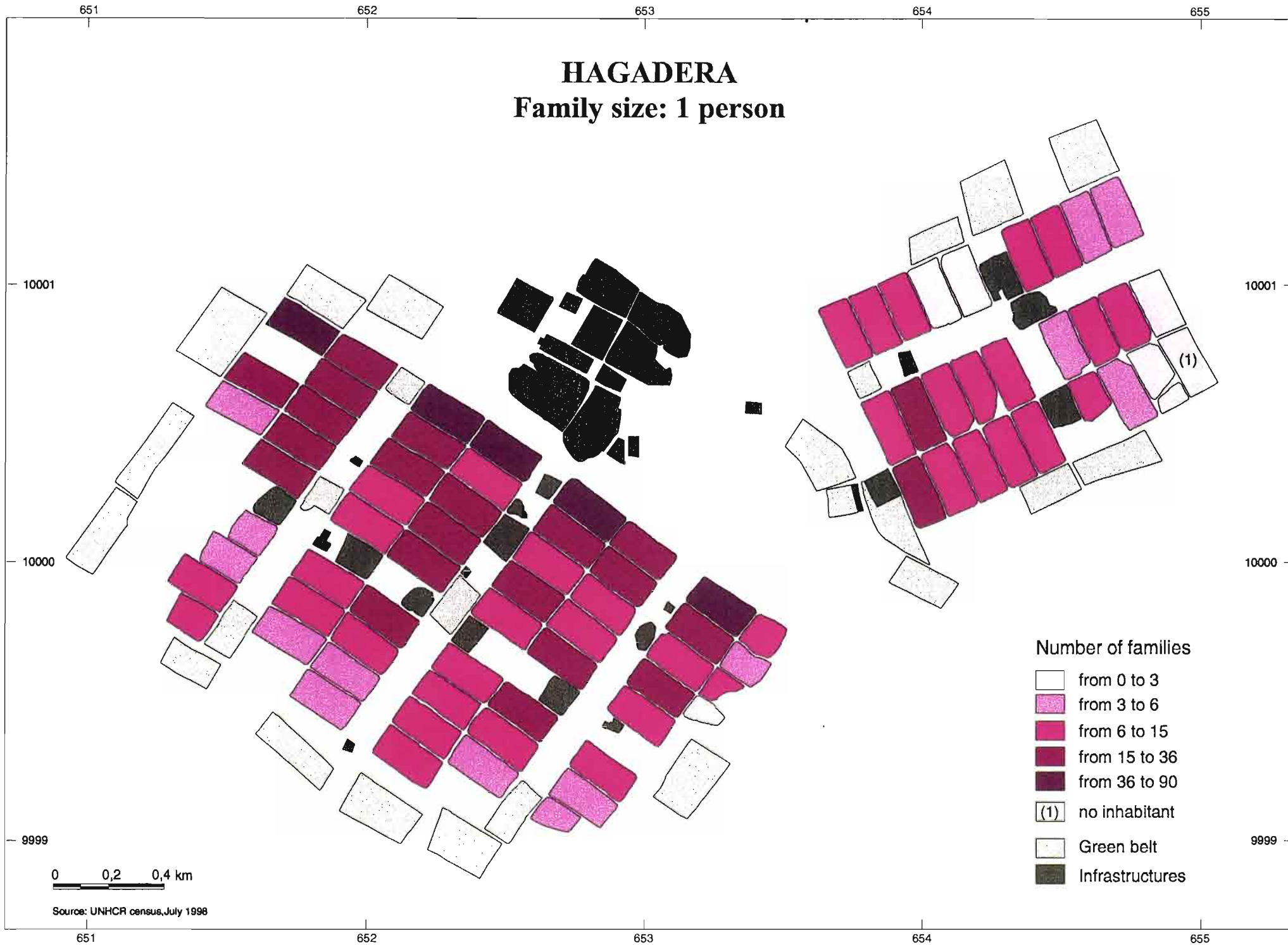
HAGADERA

Number of families by block



HAGADERA

Family size: 1 person



651

652

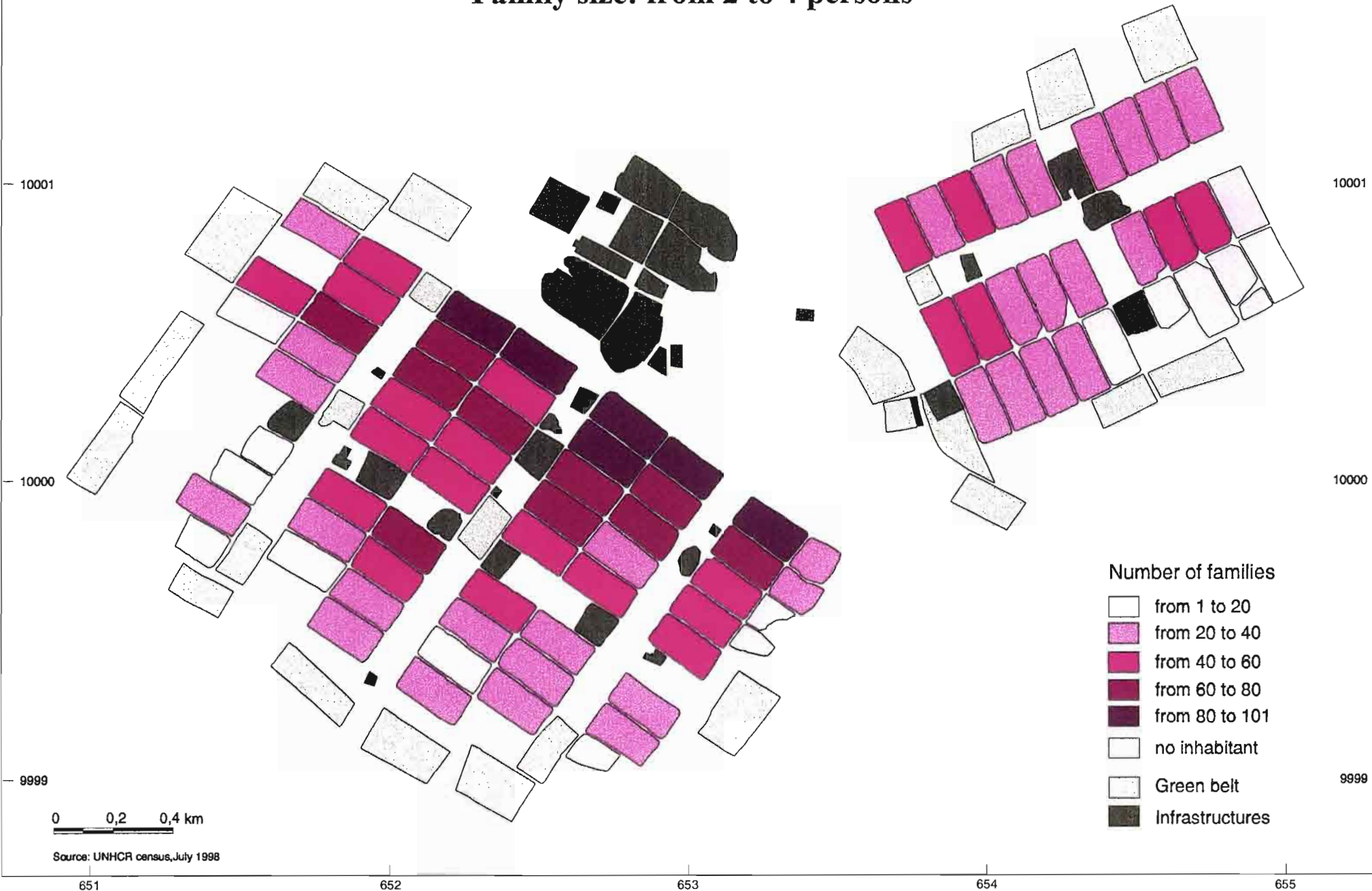
653

654

655

HAGADERA

Family size: from 2 to 4 persons



651

652

653

654

655

9999

10000

10001

9999

10000

10001

651

652

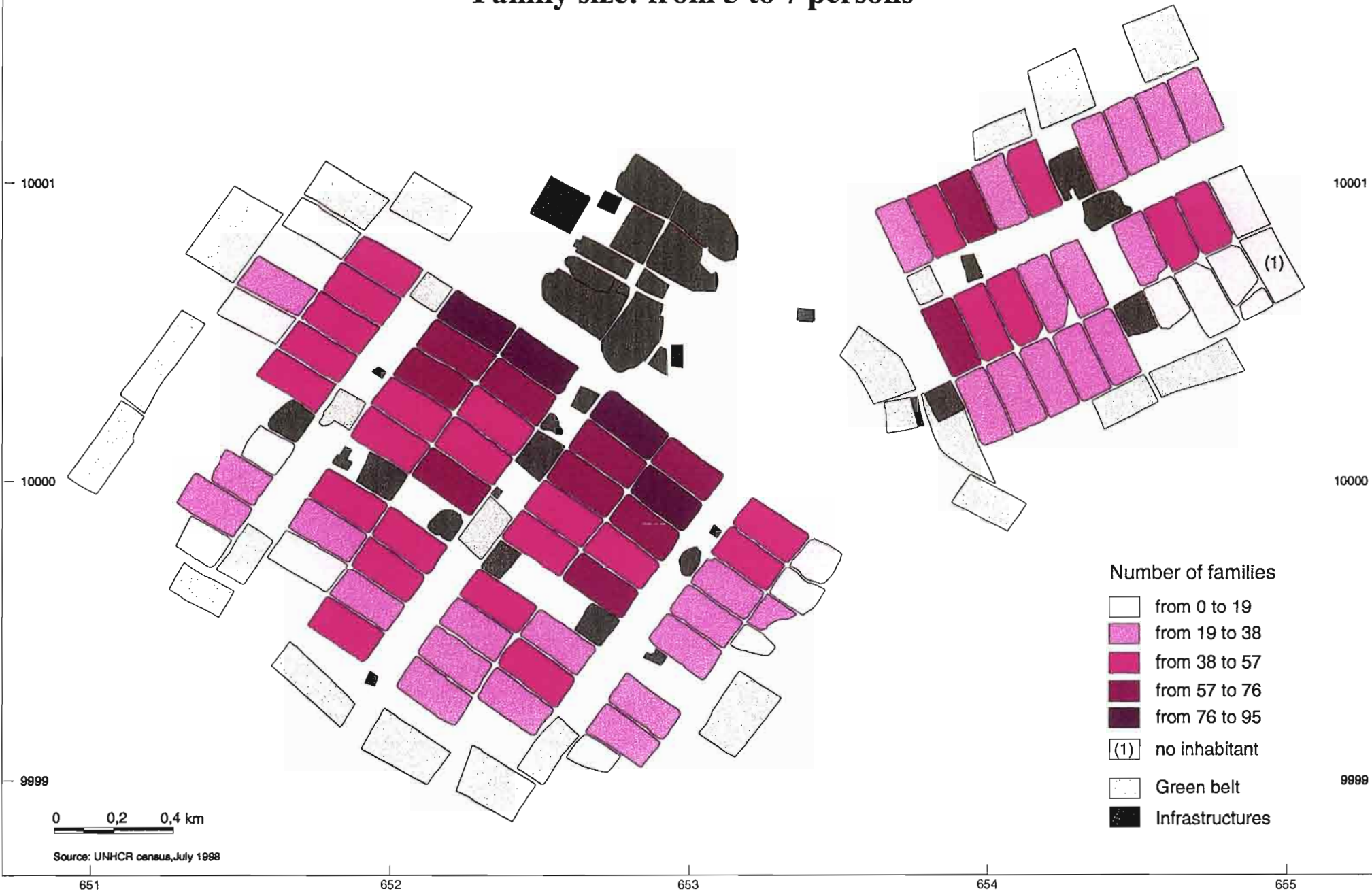
653

654

655

HAGADERA

Family size: from 5 to 7 persons



Number of families

- from 0 to 19
- from 19 to 38
- from 38 to 57
- from 57 to 76
- from 76 to 95
- (1) no inhabitant
- Green belt
- Infrastructures

0 0,2 0,4 km

Source: UNHCR census, July 1998

651

652

653

654

655

9999

9999

10001

10001

10000

10000

651

652

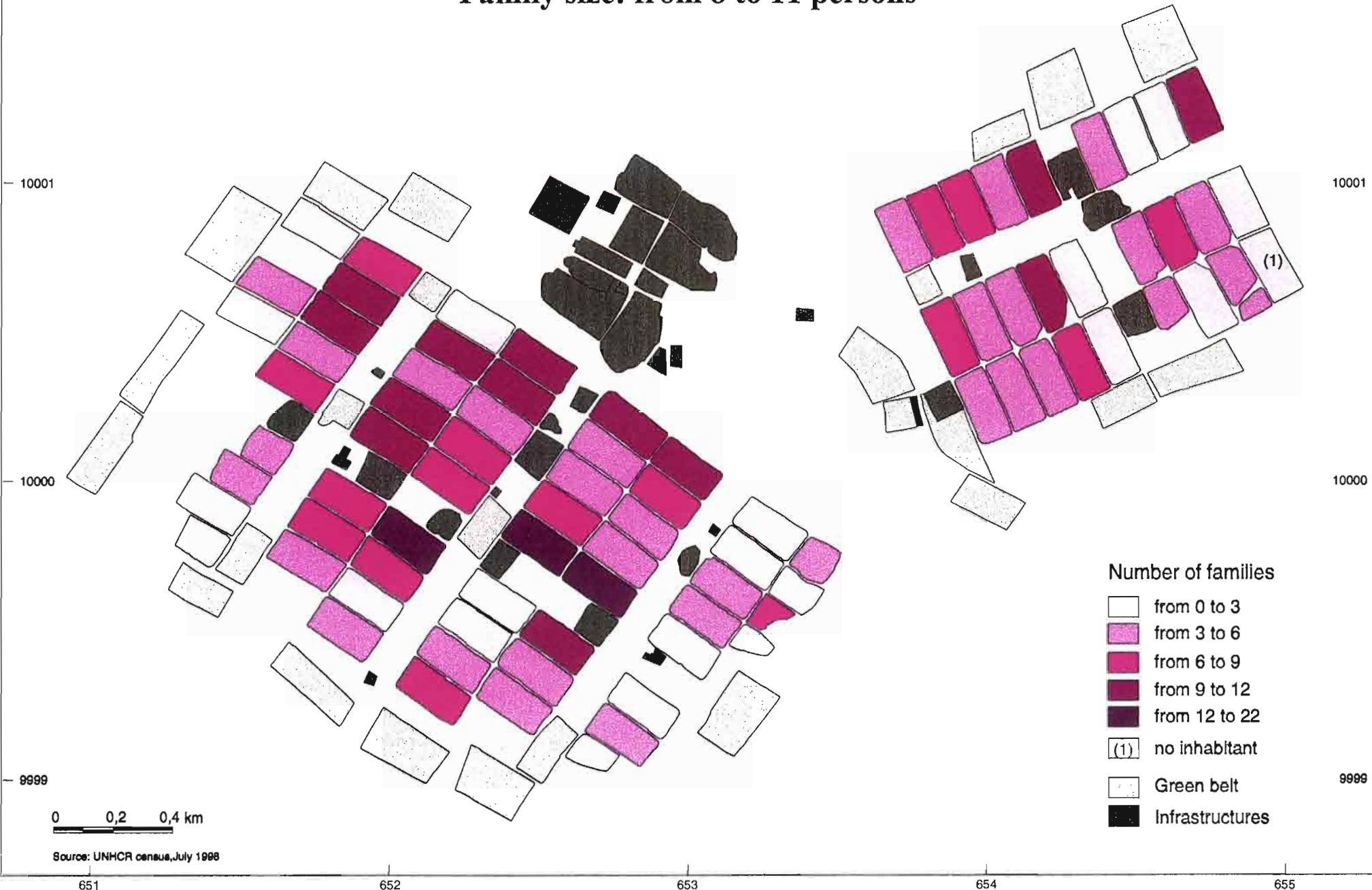
653

654

655

HAGADERA

Family size: from 8 to 11 persons



0 0,2 0,4 km

Source: UNHCR census, July 1998

651

652

653

654

655

9999

10000

10001

9999

10000

10001

651

652

653

654

655

HAGADERA Principal district of origin

10001

10001

10000

10000

9999

9999

Districts of origin

-  Afmadow
-  Badade
-  Bu'ale
-  Jilib
-  Kismayo
-  Mogadisho
-  Marerey
-  Salagle
-  no inhabitant
-  Green belt
-  Infrastructures

0 0,2 0,4 km

Source: UNHCR census, July 1998

651

652

653

654

655

651

652

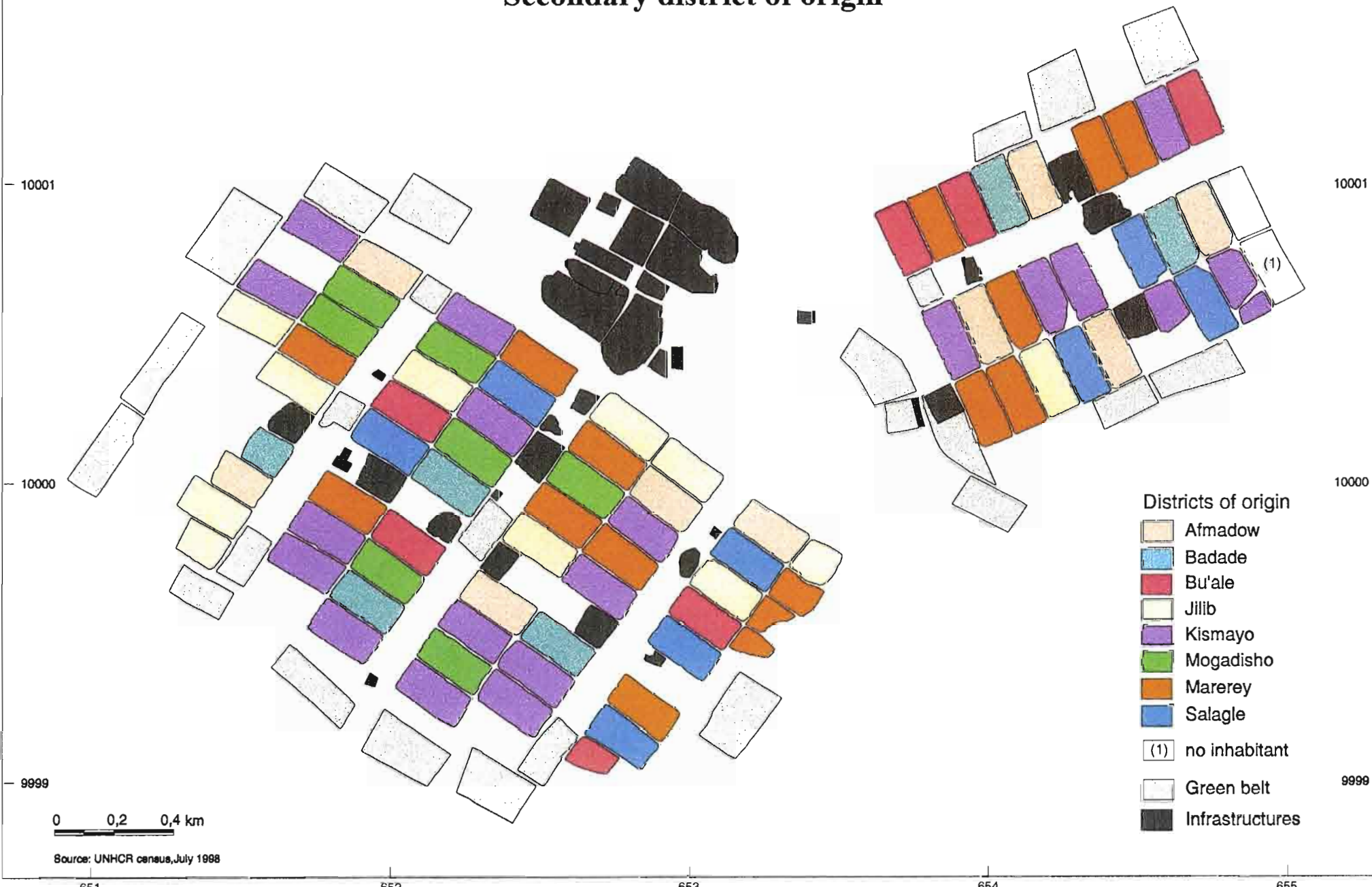
653

654

655

HAGADERA

Secondary district of origin



Districts of origin

- Afmadow
- Badade
- Bu'ale
- Jilib
- Kismayo
- Mogadisho
- Marerey
- Salagle
- (1) no inhabitant
- Green belt
- Infrastructures

0 0,2 0,4 km

Source: UNHCR census, July 1998

651

652

653

654

655

9999

9999

10000

10000

10001

10001

651

652

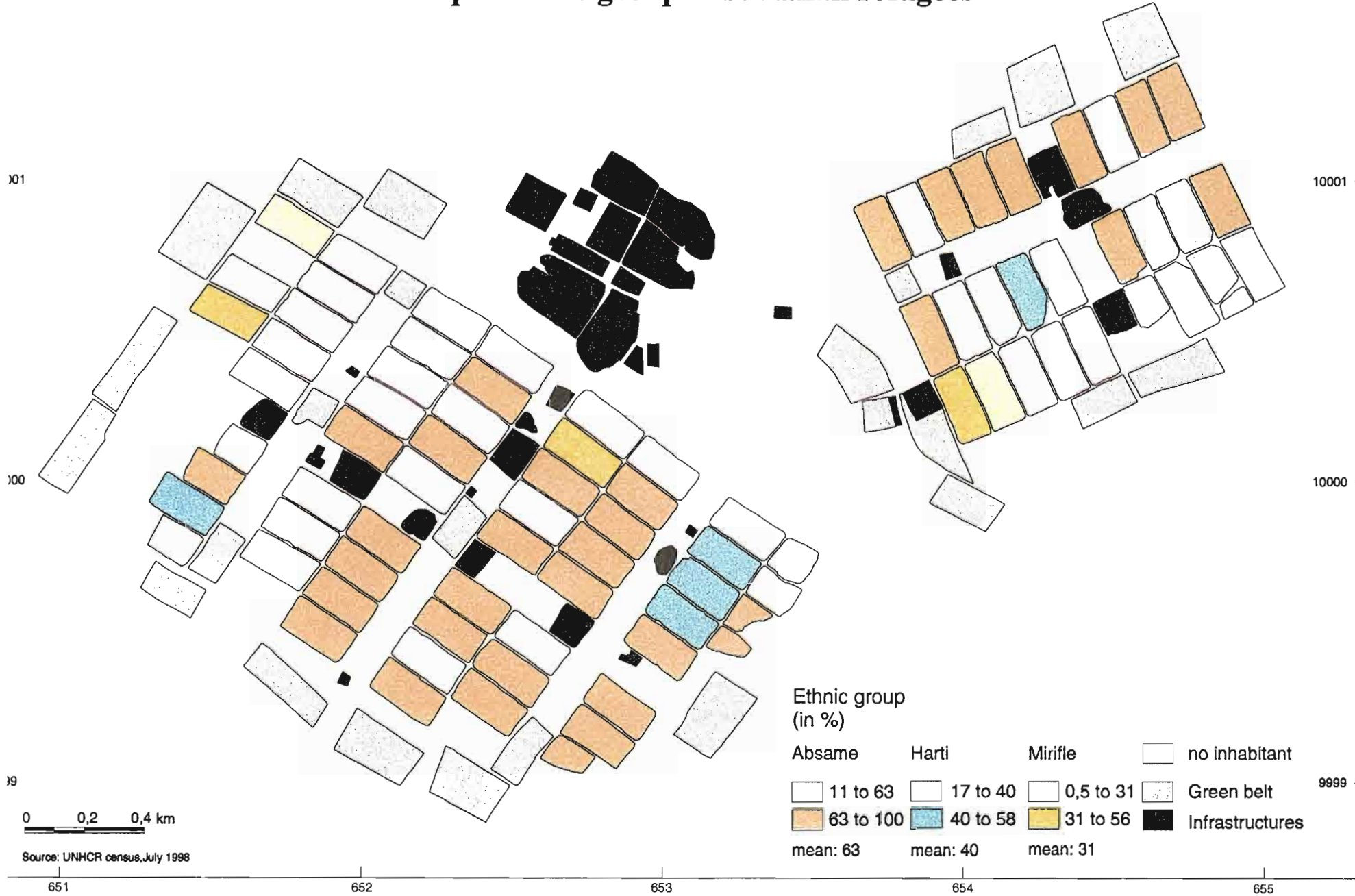
653

654

655

HAGADERA

Principal ethnic group in somalian refugees



101

10001

100

10000

99

9999

651

652

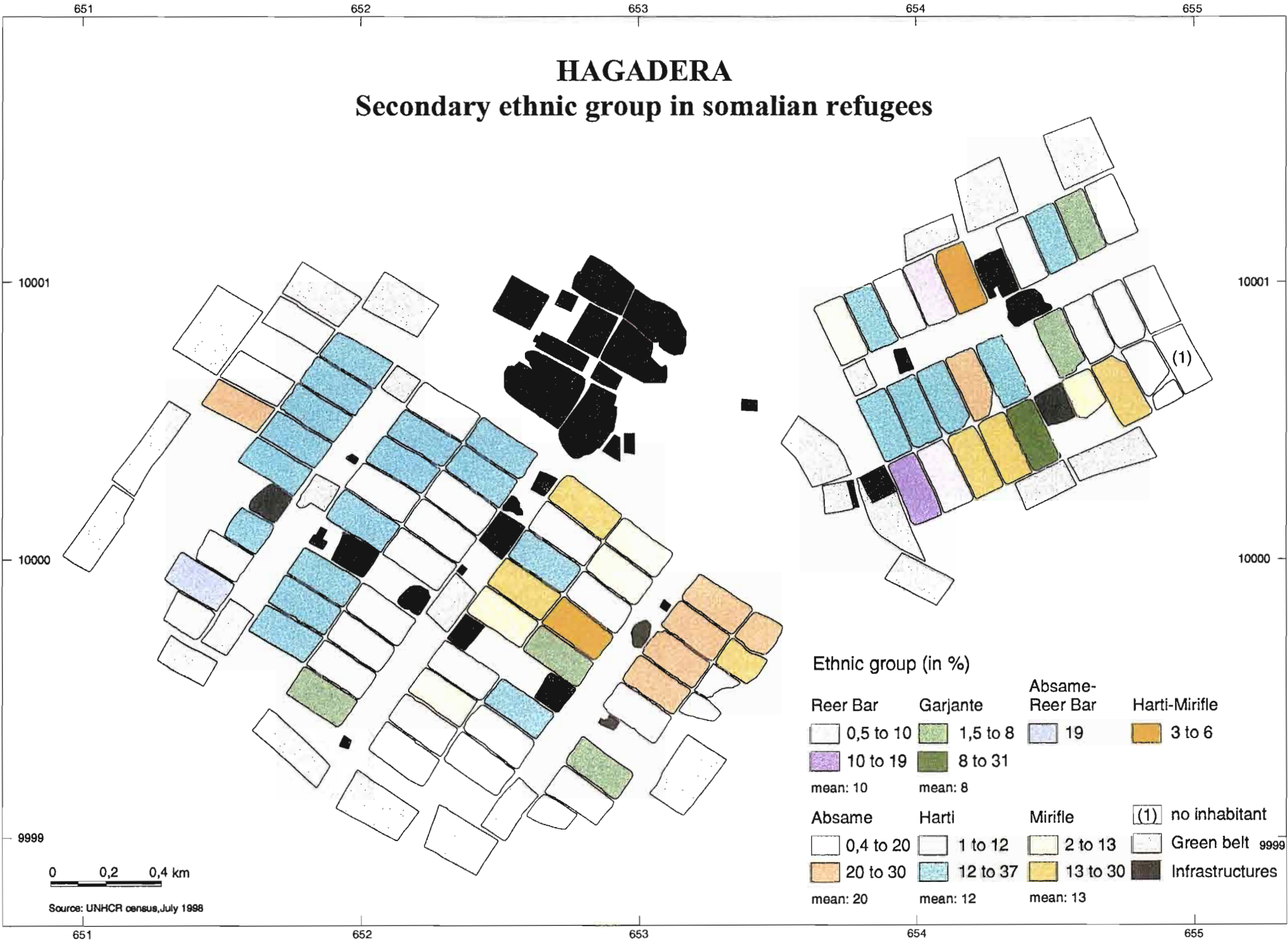
653

654

655

HAGADERA

Secondary ethnic group in somalian refugees



651

652

653

654

655

HAGADERA

Ethnic group in somalian refugees: Baantuu

10001

10001

10000

10000

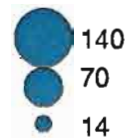
9999

9999

0 0,2 0,4 km

Source: UNHCR census, July 1998

Number of refugees



(1) no inhabitant

Green belt

Infrastructures

(1)



651

652

653

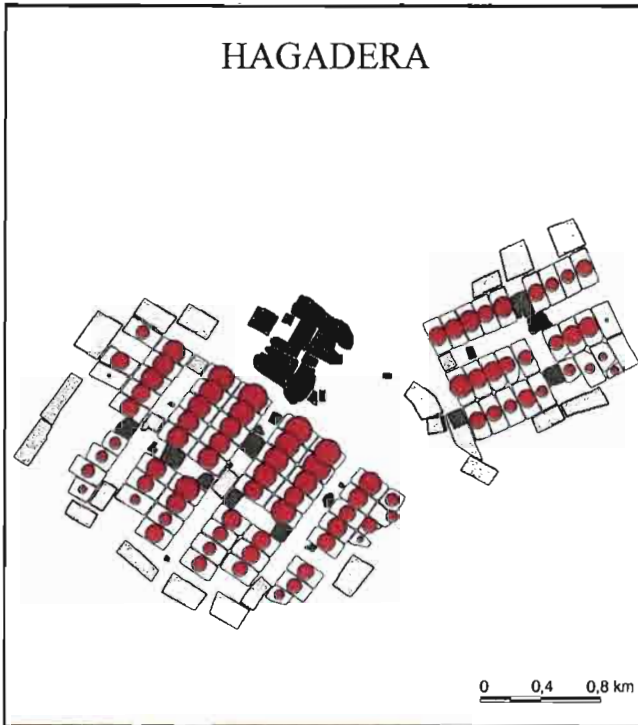
654

655

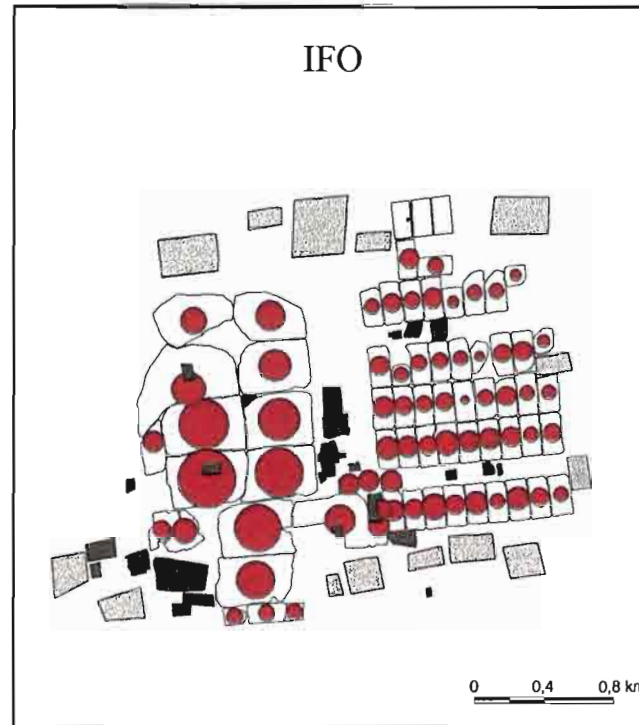
DADAAB REFUGEES CAMPS

Total of population

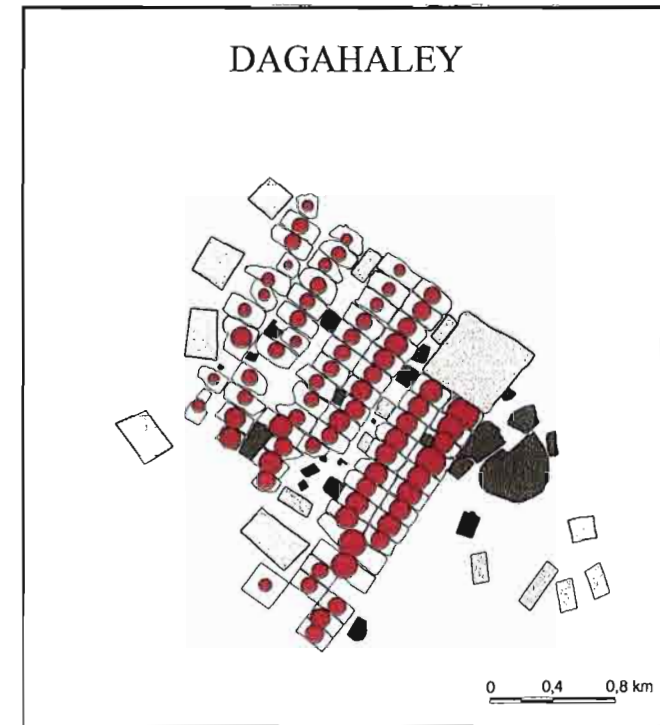
HAGADERA



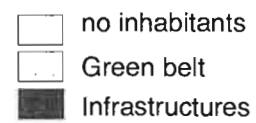
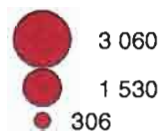
IFO



DAGAHALEY



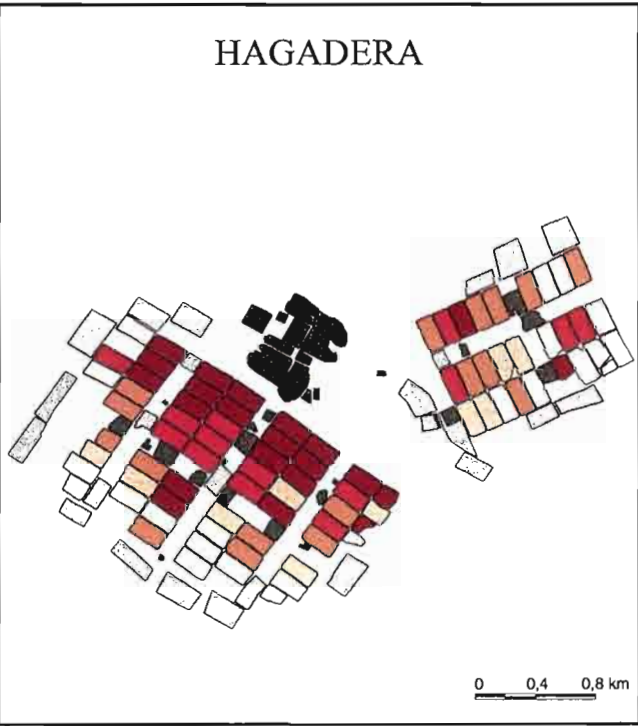
Number of inhabitants



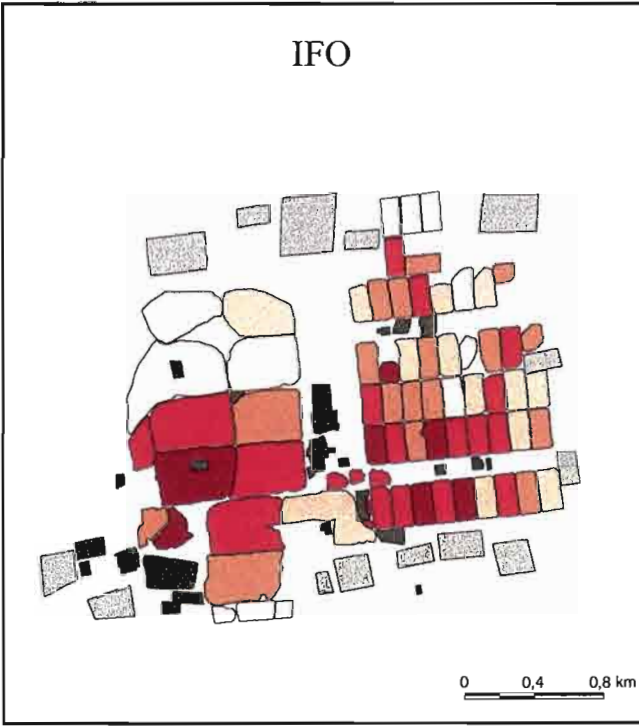
DADAAB REFUGEES CAMPS

density of population

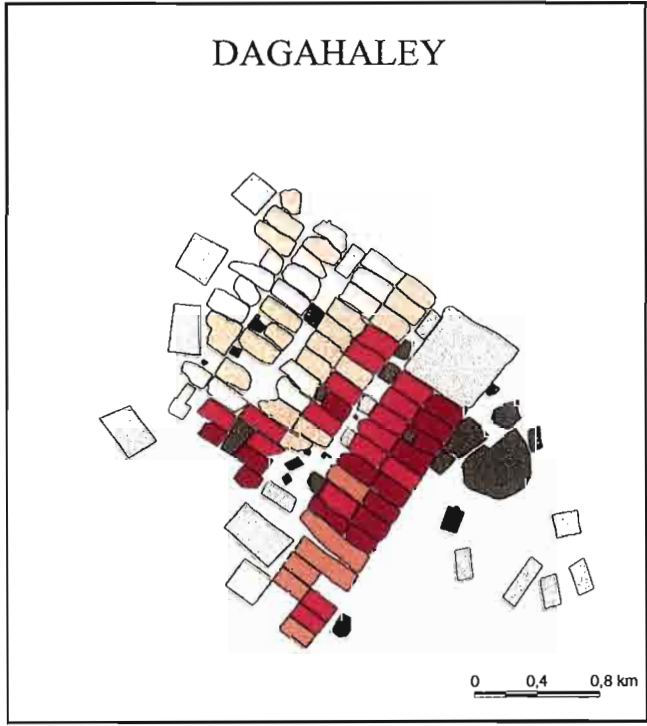
HAGADERA











IFO



DAGAHLEY



Density (inhab/ha)

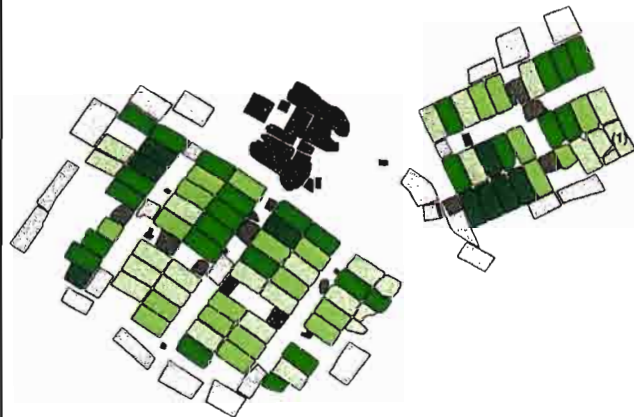
- | | |
|---|---|
|  from 0,5 to 100 |  no inhabitants |
|  from 100 to 130 |  Green belt |
|  from 130 to 160 |  Infrastructures |
|  from 160 to 210 | |
|  from 210 to 500 | |

Source: UNHCR census, July 1998

DADAAB REFUGEES CAMPS

Children under 5

HAGADERA



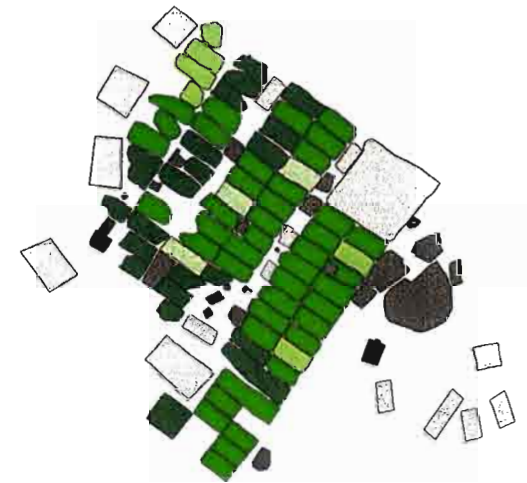
0 0,4 0,8 km

IFO



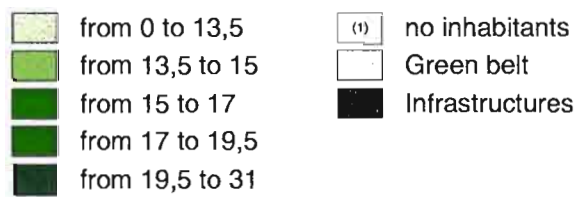
0 0,4 0,8 km

DAGAHLEY



0 0,4 0,8 km

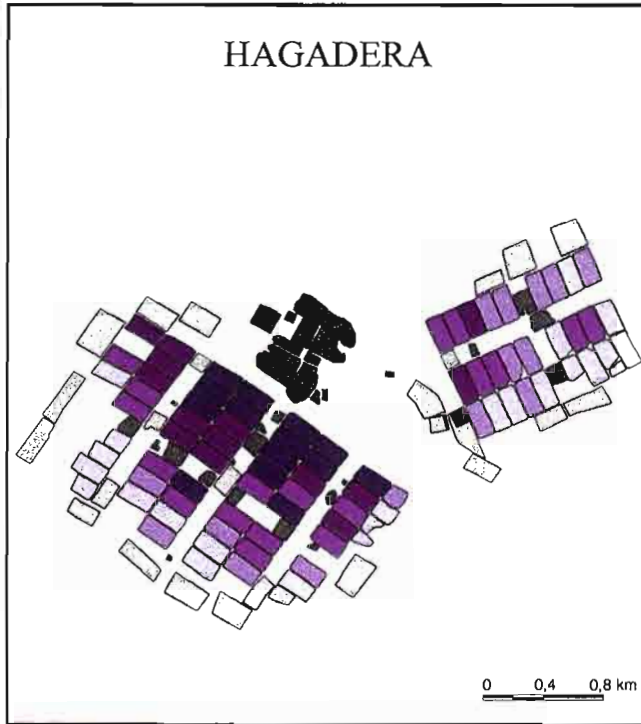
Percentage of children under 5 (by block)



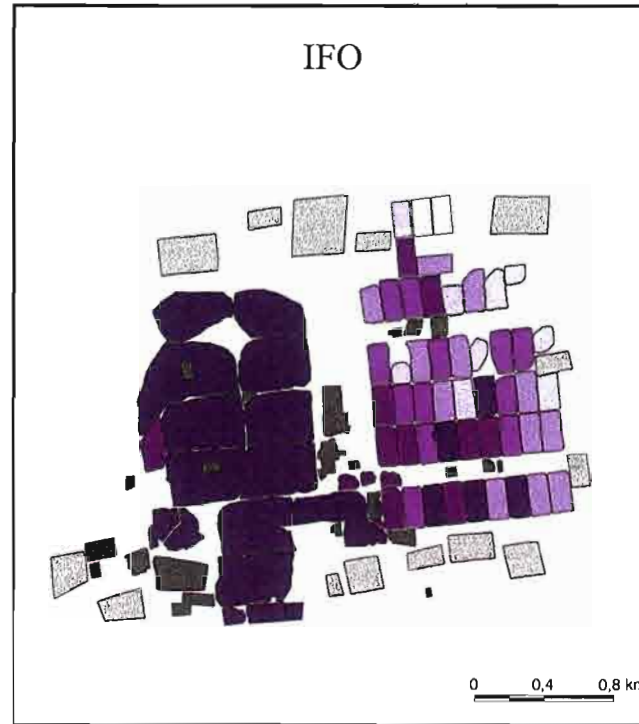
DADAAB REFUGEES CAMPS

Number of families

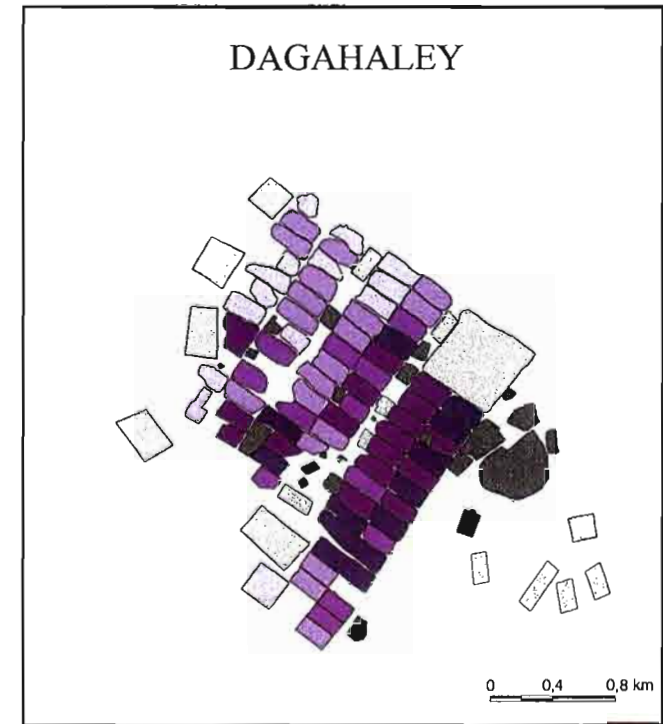
HAGADERA



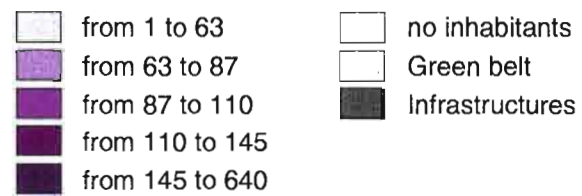
IFO



DAGAHALEY



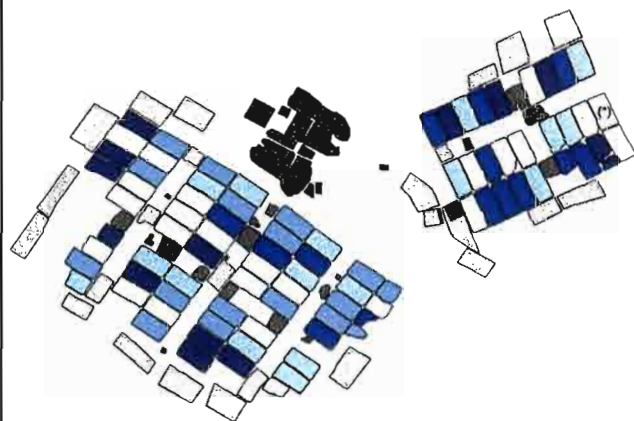
Number of families



DADAAB REFUGEES CAMPS

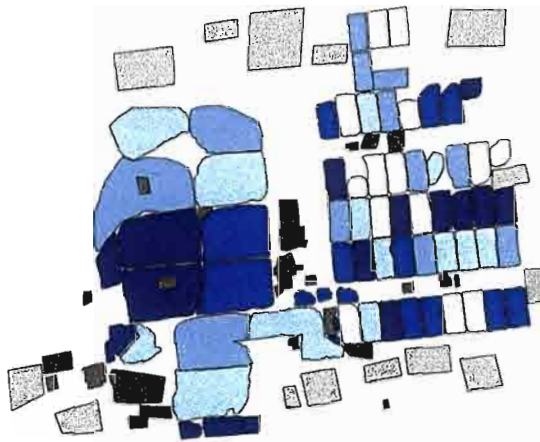
Sexe ratio

HAGADERA



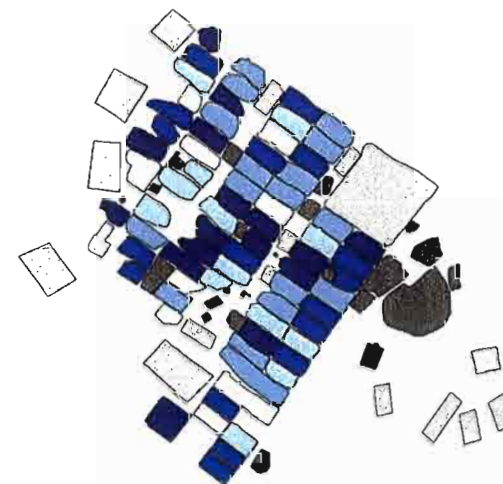
0 0,4 0,8 km

IFO



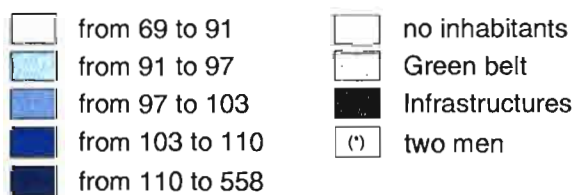
0 0,4 0,8 km

DAGAHLEY



0 0,4 0,8 km

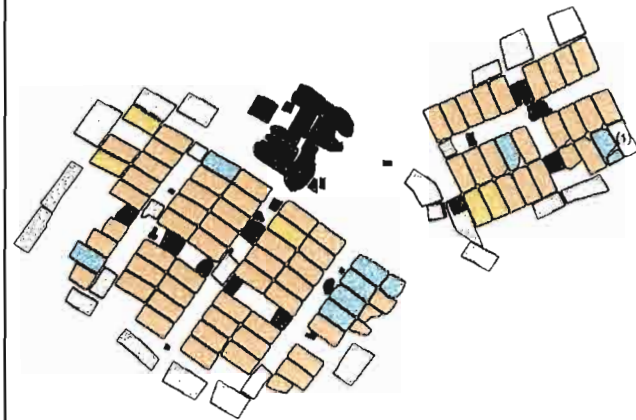
Sexe ratio (in %)



DADAAB REFUGEES CAMPS

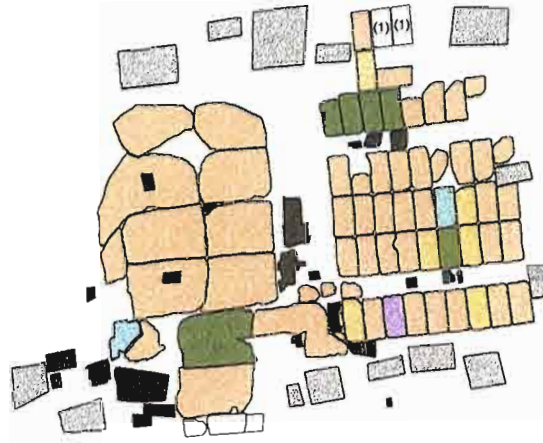
Principal ethnic group in somalian refugees

HAGADERA



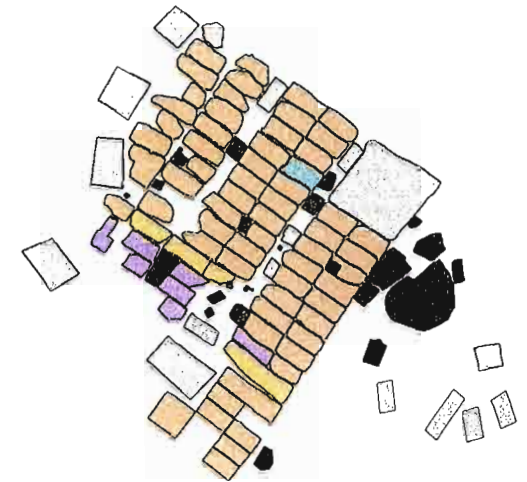
0 0,4 0,8 km

IFO



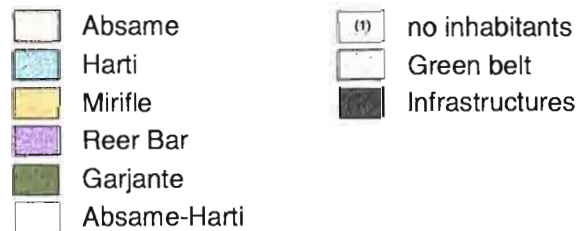
0 0,4 0,8 km

DAGAHALEY



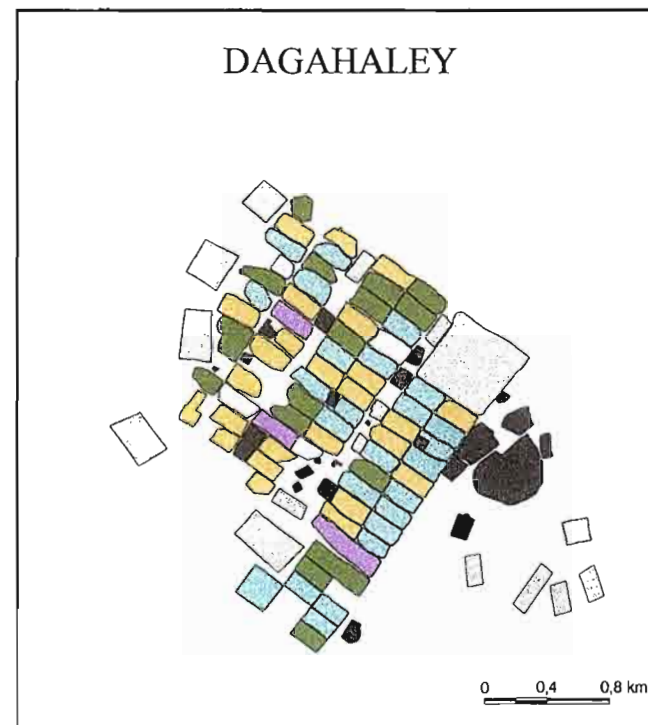
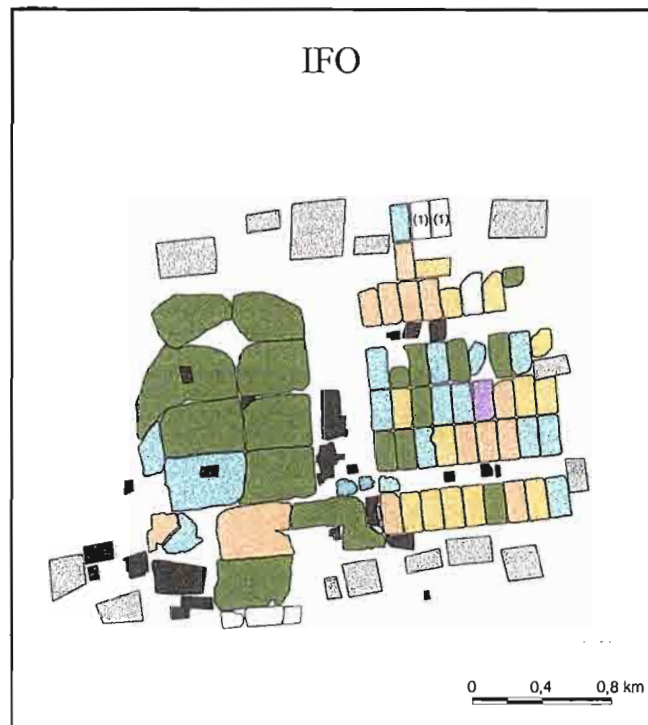
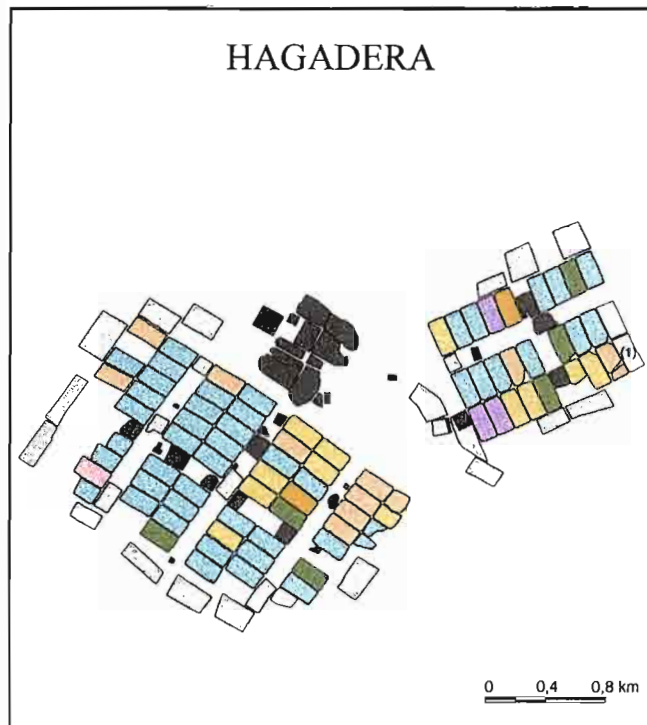
0 0,4 0,8 km

Principal ethnic group



DADAAB REFUGEES CAMPS

Secondary ethnic group in somalian refugees



SUMMARY

Maps and data base Dagahaley, Ifo et Hagadera

Pour chaque camp, les documents se trouvent dans les répertoires :
For each camp, the documents are located in the following directories :

C:\users\rabant\Kenya\Dagah

C:\users\rabant\Kenya\Hagadera

C:\users\rabant\Kenya\Ifo

DAGAHALEY

All the workspaces, tables and files are located in the directory : **c:\users\rabant\Kenya\Dagah** (for Dagahaley camp)

I : The MapInfo files

1) **The MapInfo workspaces** (complete maps)

- planimetric maps

Dagah : map of the camp (blocks, infrastructures, green-belt)

Dagaf_Fond : map of the camp + aerial mosaic and shelters

Dagah_Fond_2 : map of the camp + shelters (without aerial mosaic)

- Total of population

Dagah_PopuTot : total of population (in numbers)

Dagah_PopuTot_2 : total of population (in ranges)

- Density of population

Dagah_Densité : density of population by block (ha)

Dagah_m2 par Ref : square meters by refugee

Population structure

Dagah_Taille familles : average family size by block

Dagah_Familles_1 Person : number of households with only one refugee (by block)

Dagah_Familles_2à4 Person : number of households with 2 to 4 refugees (by block)

Dagah_Familles_5à7 Person : number of households with 5 to 7 refugees (by block)

Dagah_Familles_8à11Person : number of households with 8 to 11 refugees (by block)

Dagah_Nb Familles : number of families (by block)

Dagah_-5ans : percentage of children under five years

Dagah_Fem : number of females

Dagah_Hom : number of males

Dagah_Part_Fem : percentage of females by block

Dagah_Part_Hom : percentage of males by block

Dagah_Masculinité : average sexe ratio

- Origin of somalian refugees

Dagah_307 : refugees coming from district 307 (Afmadow)

Dagah_316 : refugees coming from district 316 (Bardera)

Dagah_329 : refugees coming from district 329 (Bu'ale)

Dagah_361 : refugees coming from district 361 (Jamame)

Dagah_363 : refugees coming from district 363 (Jilib)

Dagah_366 : refugees coming from district 366 (Kismayo)

Dagah_395 : refugees coming from district 395 (Mogadisho)

Dagah_Part_307 : percentage of refugees coming from district 307 in relation with the total of the total of population coming from this district

Dagah_Part_316 : percentage of refugees coming from district 316 in relation with the total of population coming from this district

Dagah_Part_329 : percentage of refugees coming from district 329 in relation with the total of population coming from this district

Dagah_Part_361 : percentage of refugees coming from district 361 in relation with the total of population coming from this district

Dagah_Part_363 : percentage of refugees coming from district 363 in relation with the total of population coming from this district

Dagah_Part_366 : percentage of refugees coming from district 366 in relation with the total of population coming from this district

Dagah_Part_395 : percentage of refugees coming from district 395 in relation with the total of population coming from this district

Dagah_District1 : principal district of origin represented in the block

Dagah_District2 : second district of origin represented in the block

- Somalian ethnic groups

Dagah_Ashraaf : *Ashraaf* clan

Dagah_Raxanwe : *Raxanwe* clan

Dagah_Daarood : *Daarood* clan

Dagah_PreHawi : *PreHawi* clan

Dagah_Baantuu : *Baantuu* clan

Dagah_Absame : *Absame* clan

Dagah_Harti : *Harti* clan

Dagah_Garjante : *Garjante* clan

Dagah_Mirifle : *Mirifle* clan

Dagah_ReerBar : *ReerBar* clan

Dagah_S.S_Clan1 : first clan represented in the block
Dagah_S.S_Clan2 : second clan represented un the block

Total= 47 maps

2) The MapInfo tables

Dagah_Blocs : blocks
Dagah_Blocs_2 : blocks (used for the « principal district of origin represented in the block » map)
Dagah_Blocs_3 : Blocks (used for the « second district of origin represented in the block » map)
Dagah_Blocs_4 : Blocks (used for the « first clan represented in the block » map)
Dagah_Blocs_5 : Blocks (used for the « second clan represented un the block » map)
Dagah_Blocs_Fond : Blocks used for the camp map with or without aerial mosaic.
Dagah_Blocs_Tableau : table designed to be used for other data

Dagah_Adm : Infrastructures
Dagah_Adm_Fond : Infrastructures (used for the camp map with or without aerial mosaic)
Dagah_Veg : green-belt
Dagah_Veg_Fond : green-belt (used for the camp map with or without aerial mosaic)
Dagah2BMP : aerial mosaic used for digitization

Dagah_Shelter_1 : shelters easily visible on the mosaic
Dagah_Shelter_2 : shelters not easily visible on the mosaic

Dagah_Long_Lat : co-ordinates grid , UTM projection, wgs84, zone 37, north hemisphere

3) The data base

The data used to realize the maps are linked to the table : **Dagah_blocs**.

The cells are :

ID : block number
Périmètre_km : block perimeter (km)
Superficie_km2 : block area (km²)
Superficie_m2 : block area (m²)
Superficie_Ha : block area (ha)
Densité_Ha : density of population (inhabitants/ha)
M2_par_réfugié : square meters/refugee
Pop_Femmes : number of females
Part_Femmes : percentage of females
Pop_Hommes : number of males

Part_Hommes : percentage of males
Pop_Totale : population
Rapport_mascul : sexe ratio ((nb of males/nb of females)*100)
Nb_Familles : number of families
TailleMoy_Familles : average family size
Moins_5ans : number of children under five years
Part_Moins_5ans : percentage of children under five/pôpulation
Famille_1Pers : number of 1 person households
Famille_2à4_Pers : number of 2-4 persons households
Famille_5à7_Pers : number of 5-7 persons households
Famille_8à11_Pers : number of 8-11 persons households
District_307 : refugees coming from district 307 (Afmadow)
Part_Distr_307 : percentage of refugees coming from district 307 in relation with the total of the total of population coming from this district
District_316 : refugees coming from district 316 (Bardera)
Part_Distr_316 : percentage of refugees coming from district 316 in relation with the total of population coming from this district
District_329 : refugees coming from district 329 (Bu'ale)
Part_Distr_329 : percentage of refugees coming from district 329 in relation with the total of population coming from this district
District_361 : refugees coming from district 361 (Jamame)
Part_Distr_361 : percentage of refugees coming from district 361 in relation with the total of population coming from this district
District_363 : refugees coming from district 363 (Jilib)
Part_Distr_363 : percentage of refugees coming from district 363 in relation with the total of population coming from this district
District_366 : refugees coming from district 366 (Kismayo)
Part_Distr_366 : percentage of refugees coming from district 366 in relation with the total of population coming from this district
District_395 : refugees coming from district 395 (Mogadisho)
Part_Distr_395 : percentage of refugees coming from district 395 in relation with the total of population coming from this district
Ss_Clan_Ashraaf : *Ashraaf* clan
Ss_Clan_Raxanwe : *Raxanwe* clan
Ss_Clan_Daarood : *Daarood* clan
Ss_Clan_PreHawi : *PreHawi* clan
Ss_Clan_Baantuu : *Baantuu* clan
Ss_Ss_Clan_Absame : *Absame* clan
Ss_Ss_Clan_Harti : *Harti* clan
Ss_Ss_Clan_Garjante : *Garjante* clan
Ss_Ss_Clan_Mirifle : *Mirifle* clan
Ss_Ss_Clan_ReerBar : *ReerBar* clan

II : The Excel files

In **c:\users\Rabant\Kenya\Dagah** are located the processed data files used to realize the maps

These files are :

Dag_Densité : density of population

Dag_Hom_Fem : number and percentage of men and women

Dag_m2 par ref : square meters/refugee

Dag_Masculinité : sexe ratio (men/women *100)

Dag_Moins de 5 ans : % of children under five years

Dag_Origine :district of origin of somalian refugees

Dag_Pop : total population

Dag_Pop Tot : total population

Dag_Taille Famille : average family size, number of families, ranges (1, 2-4, etc.)

Dag_Ethnies : ethnic groups

Dans **c:\users\Rabant\Kenya** are located the original files : **Ema, Ema2, Ema3, Ema4, Ema5**

Ema : Males, females, total population

Ema2 : Number of families with 1, 2, ... 11 refugees.

Ema3 : children under 1 year and 1 to 5 years (Males, females, total),

Ema4 : Districts of origin

Ema5 : ethnic groups

Landscape units map

This map is located in **C:\users\rabant\Kenya\Unités paysage**

1)The MapInfo file corresponding to the map :**Unités**

2)The MapInfo tables

The names of the tables are :

Unités_1à14 : landscape units 1,2,3,4,5,...14,

Rivières : rivers

Long_lat : co-ordinates

satellite Images

The images are located in the following directory: **C:\users\rabant\Kenya\Images**

The names of the tables corresponding to the images are :

Dadaab98.bmp : SPOT XS 1998

Cc_tm2R : Landsat image 1995

Pan_90R : panchromatic image 1990

Pan_98R : panchromatic image 1998

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