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(GIS)

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(GIS)

2007 / 5 / 13

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| 15 | | 1.11 |
| 16 | | 1.12 |
| 17 | - | 2 |
| 18 | | 201 |
| 18 | | 2.1.1 |
| 21 | | 2.1.2 |
| 22 | | 2.2 |
| 22 | | 2.2.1 |
| 25 | | 2.2.2 |
| 27 | | 2.2.3 |

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| 30 | | 2.3 |
| 30 | | 2.3.1 |
| 31 | | 2.3.2 |
| 31 | | 2.3.3 |
| 32 | | 2.3.4 |
| 34 | | 2.3.5 |
| 37 | - | 3 |
| 38 | () | 3.1 |
| 38 | | 3.2 |
| 39 | | 3.2.1 |
| 40 | | 3.2.2 |
| 41 | | 3.3 |
| 42 | | 3.3.1 |
| 43 | | 3.3.2 |
| 45 | | 3.4 |
| 47 | | 3.4.1 |
| 48 | | 3.4.2 |
| 52 | - | 4 |
| 53 | | 4.1 |
| 54 | | 4.2 |
| 54 | | 4.2.1 |
| 57 | | 4.2.2 |
| 58 | | 4.2.3 |
| 62 | | 4.3 |
| 62 | | 4.3.1 |
| 63 | | 4.3.2 |
| 63 | | 4.3.3 |
| 67 | | 4.4 |
| 68 | | 4.5 |
| 71 | | 4.6 |
| 72 | | 4.7 |
| 73 | | 4.8 |

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| 74 | | 4.9 |
| 76 | | 4.10 |
| 76 | | 4.11 |
| 77 | | 4.121 |
| 79 | - | 5 |
| 80 | | 5.1 |
| 80 | | 5.1.1 |
| 82 | | 5.1.2 |
| 84 | | 5.1.3 |
| 86 | | 5.2 |
| 89 | | 5.3 |
| 91 | | 5.4 |
| 91 | | 5.5 |
| 92 | | 5.6 |
| 93 | | 5.7 |
| 94 | | 5.8 |
| 96 | | 5.9 |
| 97 | | 6 |
| 98 | | 6.1 |
| 99 | | 6.1.1 |
| 111 | | 6.1.2 |
| 114 | | 6.1.3 |
| 116 | | 6.1.4 |
| 118 | | 6.1.5 |
| 120 | | 6.1.6 |
| 121 | | 6.2 |
| 123 | | 6.3 |
| 128 | | 6.4 |
| 131 | | 6.5 |
| 131 | | 6.5.1 |

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| | | |
| 132 | | 6.5.2 |
| 133 | | 6.5.3 |
| 136 | | 6.5.4 |
| 140 | | 6.5.5 |
| 141 | - 2017 | 7 |
| 170 | - | 8 |
| 171 | | 1.8 |
| 174 | | 2.8 |
| 176 | | |
| 181 | | |
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| 10 | | 1 |
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| 23 | 1997 | 3 |
| 24 | 1997 | 4 |
| 25 | (10) 1997 | 5 |
| 26 | 1997 | 6 |
| 26 | 1997 | 7 |
| 27 | () 2006 | 8 |
| 28 | 2006 | 9 |
| 29 | (10) 1997 | 10 |
| 30 | 2006 | 11 |
| 34 | | 12 |
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| 61 | | 17 |
| 64 | | 18 |
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| 75 | | 27 |
| 81 | | 28 |
| 83 | | 29 |
| 84 | | 30 |
| 85 | | 31 |
| 86 | 2006 | 32 |
| 87 | | 33 |
| 88 | | 34 |
| 88 | | 35 |
| 90 | | 36 |
| 92 | | 37 |
| 93 | | 38 |
| 94 | | 39 |
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| 100 | | 43 |
| 102 | | 44 |
| 105 | | 45 |
| 106 | | 46 |
| 111 | | 47 |
| 114 | | 48 |
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| 124 | | 55 |
| 125 | | 56 |
| 131 | | 57 |
| 132 | | 58 |
| 140 | | 59 |
| 143 | 2016 | 60 |
| 148 | | 61 |
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| 150 | | 63 |
| 151 | | 64 |
| 151 | () | 65 |
| 152 | () | 66 |
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| 153 | | 69 |
| 154 | | 70 |
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| 134 | | 10 |
| 134 | | 11 |
| 135 | | 12 |
| 135 | | 13 |
| 136 | | 14 |
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| 137 | | 16 |
| 137 | | 17 |
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| 32 | 1966 | 1 |
| 36 | 2006 | 2 |
| 82 | | 3 |
| 89 | | 4 |
| 90 | | 5 |
| 91 | | 6 |

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| 184 | | 3 |
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| 186 | | 5 |
| 187 | | 6 |
| 190 | | 7 |

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(GIS)

الهدف الرئيسي لهذه الأطروحة هو تحليل وتقييم واقع الخدمات العامة في بلدة طمون من حيث توزيعها وكفايتها ومقارنتها بالكثافة السكانية والعمرانية لكل مجاورة سكنية في البلدة بالرجوع إلى المعايير التخطيطية لهذه الخدمات، بالإضافة إلى تحديد أولويات التنمية العمرانية في البلدة خلال الفترة الزمنية القادمة.

(GIS)

(SPSS).

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(GIS)

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(Arc view GIS)

. (SPSS)

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(1)

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| 26 | 27 | 56142 | | 1 |
| 34 | 36 | 69370 | | 2 |
| 34 | 40 | 107793 | | 3 |
| 46 | 68 | 891571 | | 4 |
| 59 | 83 | 1023689 | | 5 |
| 47 | 54 | 644013 | | 6 |
| 55 | 87 | 885713 | | 7 |
| 49 | 68 | 738144 | | 8 |
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$3 = 224 - 150$

$2 = 149 - 75$

$1 = 74 - 1$

$6 = 449 - 375$

$5 = 374 - 300$

$4 = 299 - 225$

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$3 = 2.24 - 1.5$

$2 = 1.49 - 0.75$

$1 = 0.74 - 0$

$6 = 4.49 - 3.75$

$5 = 3.74 - 3$

$4 = 2.99 - 2.25$

:() (

.(/)

$2 = \quad / \quad 0.99 - 0.5 \quad 1 = \quad / \quad 0.5$

$4 = \quad / \quad 1.99 - 1.5 \quad 3 = \quad / \quad 1.49 - 1$

$6 = \quad / \quad 2.99 - 2.5 \quad 5 = \quad / \quad 2.49 - 2$

: (

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$3 = \% 29 - 20$

$2 = \% 19 - 10$

$1 = \% 9$

$6 = \% 59 - 50$

$5 = \% 49 - 40$

$4 = \% 39 - 30$

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$3 = 5$

$2 = 4$

$1 = 4$

$6 = 8$

$5 = 7$

$4 = 6$

.

: (

$3 = 3.49 - 3$

$2 = 2.99 - 2.5$

$1 = 2.5$

$6 = 4.99 - 4.5$

$5 = 4.49 - 4$

$4 = 3.99 - 3.5$

.5

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$3 = \% 44 - 30$

$2 = \% 29 - 15$

$1 = \% 15$

$6 = \% 75$

$5 = \% 74 - 60$

$4 = \% 59 - 45$

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(SWOT)

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1.2

1.1.2

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: **1.2**

: **1.1.2**

(187.750)

(186.460)

. 23

2

.(439 2002) 28

370

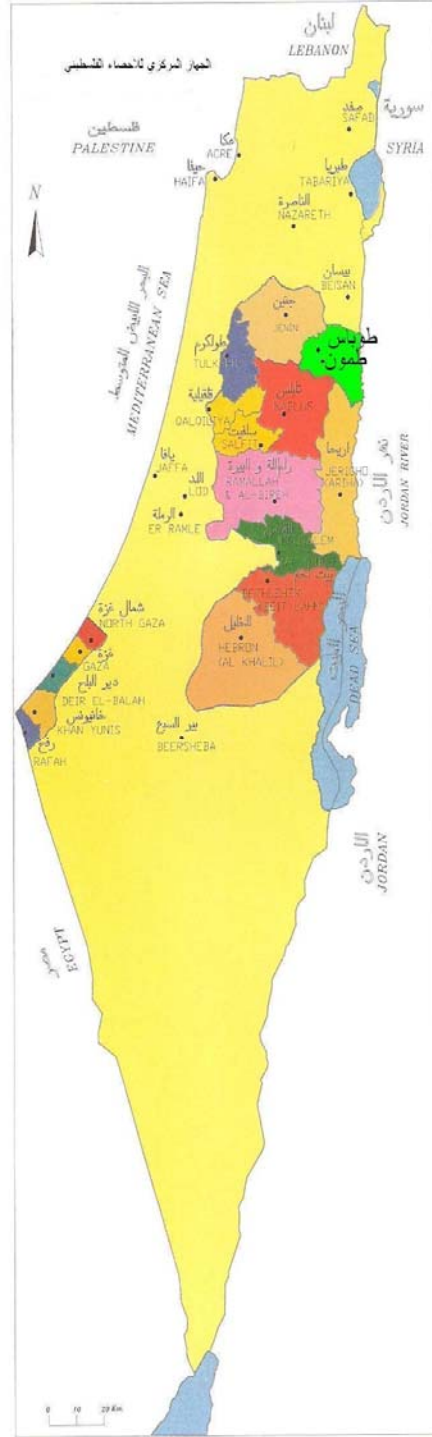
.(349 2002) 548

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خارطة رقم (1) : منطقة الدراسة بالنسبة الى
المدن الفلسطينية



المصدر : الجهاز المركزي للإحصاء الفلسطيني، المسح الشامل للمساكن والمنشآت، 1997 م

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.(440 2002) .7

316 1931 ()

2002) 98080

(439

2.1.2

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(121 1984)

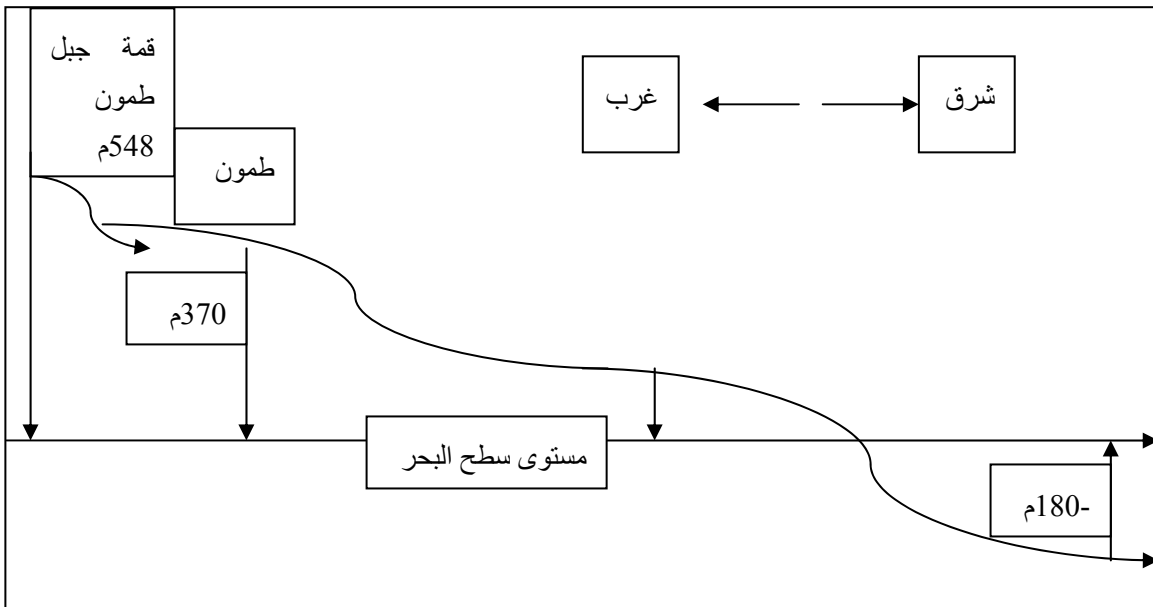
180

.(1)

2000) 300

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.(439 2002)

7635 1997

% 49.4

%22

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(2)

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| | | |
| 1345 | *1922 | 1 |
| 1599 | *1931 | 2 |
| 2070 | *1945 | 3 |
| 2593 | *1961 | 4 |
| 7635 | **1997 | 6 |
| 10441 | ***2006 | 7 |

.440 2002 : *

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2006

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15

65-15 % 45.5
 4.6 65 % 49.9
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| | | | |
| 1317 | 636 | 681 | 4-0 |
| 1197 | 608 | 589 | 9-5 |
| 962 | 509 | 453 | 14-10 |
| 3476 | 1753 | 1723 | 14-0 |
| 800 | 375 | 425 | 19-15 |
| 744 | 340 | 404 | 24-20 |
| 612 | 300 | 312 | 29-25 |
| 460 | 236 | 224 | 34-30 |
| 343 | 172 | 171 | 39-35 |
| 273 | 160 | 113 | 44-40 |
| 167 | 80 | 87 | 49-45 |
| 148 | 91 | 57 | 54-50 |
| 126 | 81 | 45 | 59-55 |
| 135 | 86 | 49 | 64-60 |
| 3808 | 1921 | 1887 | 64-15 |
| 148 | 73 | 75 | 69-65 |
| 74 | 45 | 29 | 74-70 |
| 58 | 26 | 32 | 79-75 |
| 30 | 20 | 10 | 84-80 |
| 19 | 11 | 8 | 89-85 |

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|-------------|-------------|-------------|-------|
| | | | |
| 14 | 10 | 4 | 94-90 |
| 6 | 5 | 1 | 99-95 |
| 349 | 190 | 159 | 65+ |
| 2 | 1 | 1 | |
| 7635 | 3865 | 3770 | |

. 1997

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(1281) 1997

% 13

(5)

11 -1

.(4)

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:(4)

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|-------------|-------------|-----|
| | | |
| 43 | 43 | 1 |
| 268 | 134 | 2 |
| 375 | 125 | 3 |
| 592 | 148 | 4 |
| 835 | 167 | 5 |
| 870 | 145 | 6 |
| 987 | 141 | 7 |
| 960 | 120 | 8 |
| 846 | 94 | 9 |
| 640 | 64 | 10 |
| 1229 | 100 | 11+ |
| 7635 | 1281 | |

. 1997

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5.96

1997

(4)

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|------|---|----|----|----|---|----|------|---|
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| 1442 | 5 | 75 | 44 | 14 | 0 | 28 | 1271 | 5 |

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(7)

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| 1367 | 16 | 145 | 52 | 51 | 1103 |

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(570) 2006

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(439 2002) ()

22730 10.000

(8) 886

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| 250 | 650 | 22.730 | |
| 65 | 210 | 95 | |
| 5 | 15 | 30.000 | () |
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% 70

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| 35 | |

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1997

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| 1293 | 96 | 1197 | |
|------|------|------|--|
| 344 | 21 | 323 | |
| 83 | 8 | 75 | |
| 1720 | 125 | 1595 | |
| 1506 | 738 | 768 | |
| 1287 | 1287 | - | |
| 156 | 79 | 77 | |
| 40 | 2 | 38 | |
| 402 | 384 | 18 | |
| 3391 | 2490 | 901 | |
| 10 | 6 | 4 | |
| 5121 | 2621 | 2500 | |

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(99) (189) 2006

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| 18 | |
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(1984 124)



1966 : (1)

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(170 1985

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| 100 | 144 | 675 | | 1972 | |
| 180- | 157 | 833 | | 1968 | |

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1994

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1997-8-23 .



. 2006 :(2)

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: **1.3**

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.(30 1990)

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.(168 2006) (.....

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(Master Plan)

.(158 2006)

- : **2.3**

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(FAO)

.(FAO , 1993 , p 85)

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.(33 2001)

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1.2.3

(108 1972)

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2.2.3

(Residential Area) : .1

(262 2002) % 39

% 67

(117 2002) % 60 % 63

% 20 (Roads Area) : .2

.(263 2002)

(Industrial Area) : .3

(Business Area) : .4

(CBD)

(Utilities Area) : .5

- : **3.3**

.(184 1997)

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- : **1.3.3**

- : .1

.(99 1995)

- : .2

(Location)

(Situation)

- : .3

- : .4

. (26 2003)

- : **2.3.3**

: .1

2500-1 5000-1

- : .2

:(FAO, 1993, P 3)

(Efficiency)

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.(Acceptability and Equity)

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(Sustainability)

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(Legit)

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(Flexibility)

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.(21 2005

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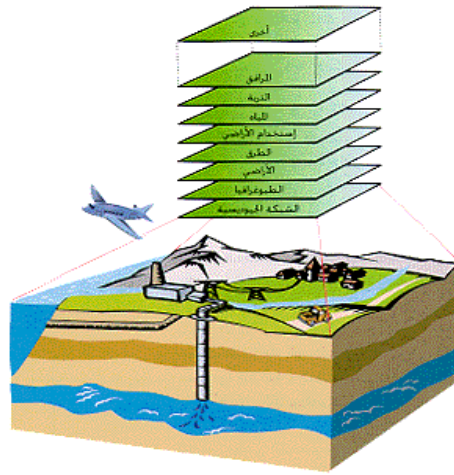
: .6

- :(**Geographic Information Systems**) **4.3**

) (7)

.(2001

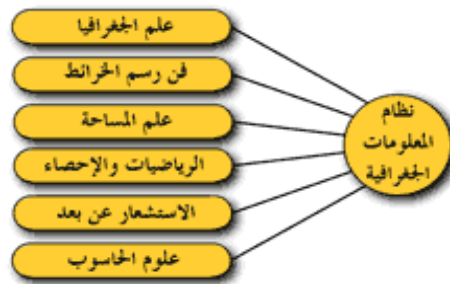
(7):



(GIS)

(8) (2006 36) .

(8):



(2001) :

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- : **1.4.3**

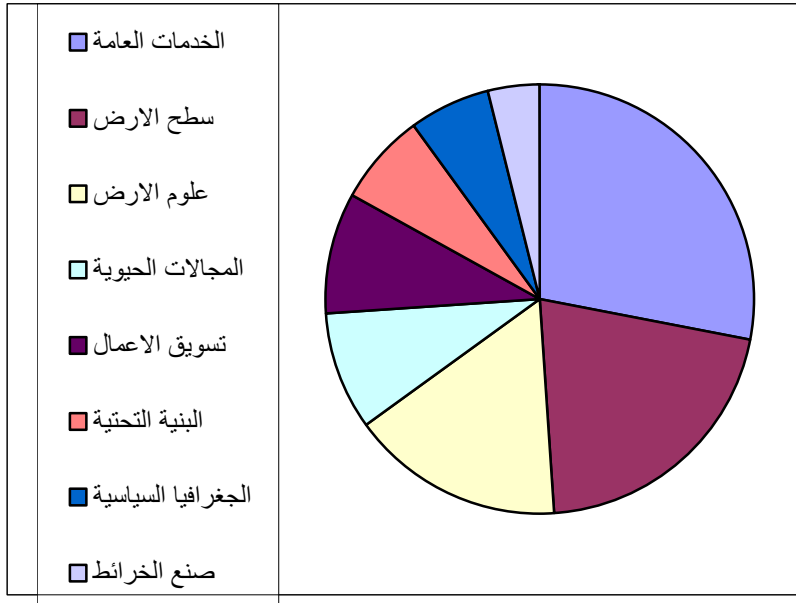
(32 2000)

1995

: (13)

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|-------|-------|------------------|-------------|----|
| % 28 | | Utilities | .1 | |
| | | Land information | .2 | |
| | . | % 21 | | |
| | | Geosciences | .3 | |
| | . | % 16 | | |
| | | Biological use | .4 | |
| | . | % 9 | | |
| | | Business | .5 | |
| | | % 9 | | |
| | | Infrastructure | .6 | |
| | . | % 7 | | |
| | | Geopolitics | .7 | |
| | . | % 6 | | |
| | . | % 4 | Cartography | .8 |

:(13)



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2.4.3

(2005 181) .

(2000)

Information retrieval : .1

Thematic mapping : .2

:(14)



Overlay : .3

Network Analysis : .4

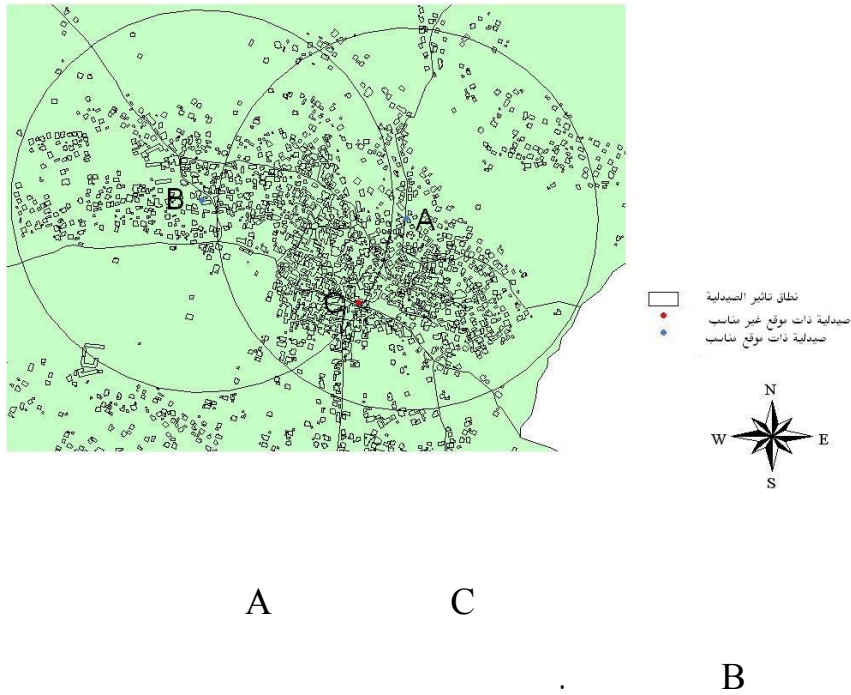
Digital terrain analysis : .5

Elevation Model

Buffer and corridors:

.6

:(15)



Map Projection :

.7

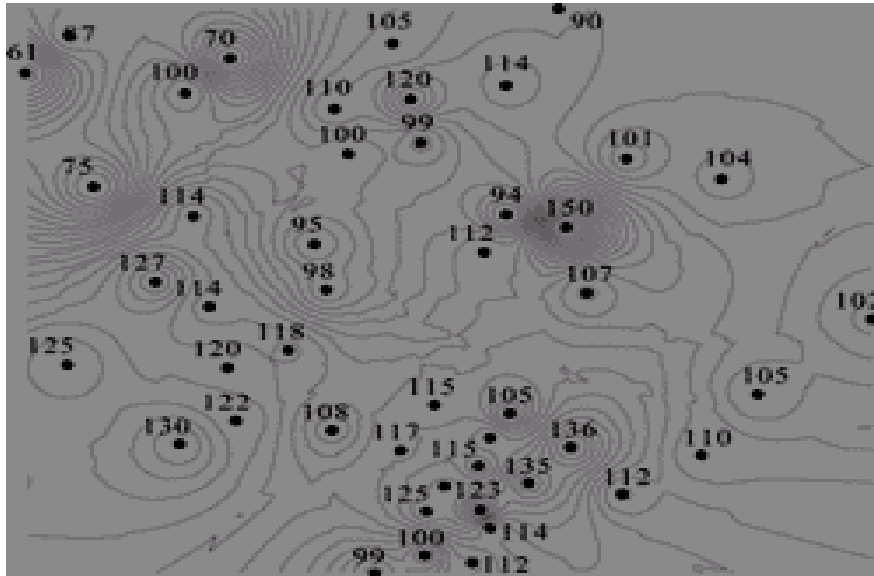
Spatial measurement :

.8

Spatial Analysis 3D :

.9

:(16)



1.4

2.4

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.(317 1995)

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(Effect Zone)

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- : **2.4**

.(13)

:(13)

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| 12 - 10 | 9 - 7 | 6 - 1 | - |
| 12 - 9 | 8 - 7 | 6 - 1 | - |
| 12 - 9 | - | 8 - 1 | - |

.359 1998 :

.(359 1998) ()

: **1.2.4**

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| 100-15 | | 1 |
| 1000 -150 | 2 | 2 |
| 10 - 5 | 2 | 3 |
| 4-1 | | 4 |
| 30-25/ | | 5 |
| 30-25 | | 6 |
| 400-200 | | 7 |
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.(319 ,318), 1994 ,(354,360,361) 1998 :

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| | | | | | |
| 1200 - 250 | 960 - 240 | 840 | 800 - 500 | | 1 |
| 79 - 31 | 10 - 5 | 10 - 8.5 | 110 - 22 | 2 | 2 |
| 8.82 | 3.25 - 1.01 | 4.2 2.04 | 24 - 9 | 2 | 3 |
| 28.5 - 11.2 | 32 - 20 | 42 - 24 | 40.9 - 21.8 | % | 4 |
| 35 - 25 | 21 - 10 | 11.9 - 10 | 137.5 - 44 | 2 | 5 |
| 35 - 7.3 | 4.2 - 3.4 | 5 - 2.4 | 30 - 18 | 2 | 6 |
| 38 - 8 | 24 - 6 | 24 | 20 | | 7 |
| 32 30 | 40 | 35 | 32 - 30 | | 8 |
| 800 - 400 | 800 - 400 | 800 - 400 | 800 - 400 | | 9 |
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.88 2002 :

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|------------|------------|------------|-------------|---|----|
| | | | | | |
| 1600 -800 | 1120 -320 | 840 | 1200 - 800 | | 1 |
| 141 - 79 | 10 - 7 | 13 - 3 | 221 - 44 | 2 | 2 |
| 22 | 4 - 1.35 | 6 - 2 | 48 - 22.4 | 2 | 3 |
| 27.8 -15.6 | 40.1 -19.3 | 67 - 46 | 50.9 - 21.7 | % | 4 |
| 30 - 25 | 21.9 - 8.9 | 15.5 - 3.6 | 182.2 - 28 | 2 | 5 |
| 27.5 -13.7 | 4.1 - 3.6 | 7.1 - 2.4 | 40 - 28 | 2 | 6 |
| 50 - 25 | 24 - 8 | 24 | 40 - 30 | | 7 |
| 32 - 30 | 46 - 40 | 35 | 27 | | 8 |
| 1200-800 | 1500-1000 | 1500-1000 | 1500-1000 | | 9 |
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.87 2002 :

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|------------|------------|------------|------------|---|----|
| | | | | | |
| 2700-1000 | 1120 -320 | 1260-720 | 2000-1200 | | 1 |
| 220 -141 | 10 - 7 | 25.2 -11.9 | 442 - 88 | 2 | 2 |
| 27 | 4 - 1.35 | 11.2 - 4.4 | 100 - 42 | 2 | 3 |
| 19.1 -12.3 | 40.1-19.3 | 61 - 17 | 47.8 -22.6 | % | 4 |
| 30 - 25 | 21.9 - 8.9 | 30.9-13.2 | 221 - 73 | 2 | 5 |
| 27 - 10 | 4.1 - 3.6 | 13.2 - 4 | 50 - 35 | 2 | 6 |
| 77 - 28 | 24 - 8 | 40 - 24 | 75 - 50 | | 7 |
| 35 - 30 | 46 - 40 | 36 - 30 | 25 | | 8 |
| 1600-1200 | 2000-1500 | 2000-1500 | 2000-1500 | | 9 |
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86 2002 :

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| | 15000 | 4000 | | |
| | 0.15 | 0.12 | (2) | |
| | 250000 | 20000 | | |
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| | 250 | 150 | 2 | |

.11 2003

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| * | 1 | * | 999 - 1 | | |
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| * | 0.2 | * | | | |
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223 2004 :

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| 1596/ | 218/ | 164 | |
| 7376/ | 963/ | 16 | |
| 3216/ | 456 / | 23 | |
| 5616/ | 767/ | 46 | |
| - | / 0.4 | 20 | |
| - | / 0.6 | 4 7 | |
| 1987/ | 271/ | 130 | |

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| 15000/1 | |
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| 4000/1 | |
| 5000/1 | / |
| 5000/2 | |

MOH, 2002, P129 :

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| | | | 2 - 1 | 70- 20 | 100 | |
| / | () | 0.8 - 0.4 | 1- 0.33 | 10- 5 | 15- 10 | |
| | | 0.35 - 0.2 | 1.66 - 0.8 | 5000-4000 | 5- 3 | |

.18 2003

المصدر:

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| | | | | |
| | 2 1.67 | 2 0.4 | 200 = | |
| | 2 1.2 | 2 0.7 | | |
| | 2 2.5 | 2 1.0 | | |
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.18 2003

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| 500 | 250 | 10 | 5 | 2.5 | - |
| 1400 | 700 | 350 | 250 | 200 | 2 - |

.368 1998 :

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| | | | | |
| | 15000 | 10000 | | |
| | 1 | 0.5 | | |
| 2 25 | 0.07 | 0.04 | 2 | |
| | 250000 | 50000 | | |
| | 8 | 5 | | |
| 2 25 | 0.04 | 0.02 | 2 | |

.14 2003 :

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| | | | | |
| | 30000 | 20000 | | |
| | 5 | 3 | | |
| | 5 | - | () | |
| 2 25 | 0.1 | 0.06 | 2 | |
| | 250000 | 80000 | | |
| | 30 | - | | |
| | 20 | - | () | |
| 2 25 | 0.04 | 0.02 | 2 | |

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| | 30000 | 15000 | |
| | 1.6 | 1.2 | |
| | 4 | - | () |
| 2 25 | 0.1 | 0.05 | 2 |
| | / 25000 | / 15000 | |

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|-------|--------|--------|--------|-------|-----------|--------|--|
| | | | | | | | |
| | | | | | | | |
| 7 | 5 | 6 | 2 | 4 | 3 | 9 | |
| 1996 | 2006 | 2001 | 2001 | 2004 | 2004 | 1986 | |
| 2 250 | 2 550 | 2 300 | 2 400 | 2 300 | 2 500 | 2 1000 | |
| 2 100 | 2 55 | 2 45 | 2 90 | 2 80 | 2 160 | 2 160 | |
| 2 25 | 2 18 | 2 25 | 2 22 | 2 20 | 2 40 | 2 20 | |
| 50 | 41 | 40 | 60 | 60 | 32 | 60 | |
| 2 | 2 | 1 | 2 | 2 | 1 | 2 | |
| 2 | 2 | 1 | 2 | 2 | 1 | 2 | |
| 3 | 3 | 2 | 4 | 3 | 4 | 3 | |
| 2 5 | 2 13.4 | 2 7.5 | 2 6.7 | 2 5 | 2 15.6 | 2 16.7 | |
| 2 2 | 2 1.3 | 2 1.1 | 2 1.5 | 2 1.3 | 2 4.7 | 2 1.7 | |
| 2 1 | 2 0.88 | 2 0.63 | 2 0.73 | 2 0.7 | 1.25 2 | 2 0.7 | |
| 25 | 20 | 40 | 30 | 30 | 32 | 30 | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | | | | | | |
| 1970 | 1965 | 1970 | 1966 | 1985 | 1968 | 1985 | |
| | | | | | | | |

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| | | | | | |
| 1998 م | 2004 م | 2005 م | 2000 م | 2004 م | |
| إناث | ذكور | مختلط | مختلط | ذكور | |
| 8 - 4 | 8 - 5 | 5 - 1 | 4 - 1 | 5 - 1 | |
| البطة | المشماس الغربي | الجملة الشرقية | البطة | المشماس الغربي | |
| 7 | 6 | 3 | 7 | 6 | |
| 2م 2150 | 2م 2000 | 2م 4250 | 2م 1350 | 2م 2750 | |
| 2م 575 | 2م 375 | 2م 544 | 2م 580 | 2م 640 | |
| % 27 | % 19 | % 13 | % 43 | % 23 | |
| 13 | 9 | 12 | 9 | 9 | |
| 2م 30 | 2م 42 | 2م 50 | 2م 25 | 2م 50 | |
| 535 | 400 | 430 | 320 | 380 | |
| 2م 4.02 | 2م 5 | 2م 9.9 | 2م 4.2 | 2م 7.2 | |
| 2م 1.17 | 2م 0.94 | 2م 1.3 | 2م 1.8 | 2م 1.7 | |
| 2م 0.73 | 2م 0.95 | 2م 1.40 | 2م 0.7 | 2م 1.2 | |
| 41.2 | 44.4 | 35.8 | 35.6 | 42.2 | |
| 20 | 14 | 18 | 12 | 12 | |
| 2 | 2 | 3 | 1 | 2 | |
| 1996 | 1985 | 2005 | 1965 | 2004/1955 | |
| حكومي | حكومي | حكومي | حكومي | حكومي | |
| فرعي | فرعي | فرعي | فرعي | فرعي | |

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| - 9 | - 8 | |
| 1955 | 1947 | |
| | | |
| | | |
| 7 | 6 | |
| 2 3175 | 2 3000 | |
| 2 580 | 2 760 | |
| % 18 | % 25 | |
| 16 | 15 | |
| 2 36 | 2 35 | |
| 530 | 540 | |
| 2 5.99 | 2 5.6 | |
| 2 1.09 | 2 1.4 | |
| 2 1.09 | 2 0.97 | |
| 33.1 | 36 | |
| 23 | 22 | |

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| 1998 / 1984 | 2002 / 1977 | |
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| | | | | | | |
| 2 1.84 | 2 9.6 | 2 630 | *2 3300 | 343 | 12 | |
| 2 1.6 | 2 7.4 | 2 1764 | 2 8350 | 1129 | 30 | |
| 2 1.02 | 2 4.48 | 2 950 | 2 4150 | 927 | 22 | |
| 2 1.30 | 2 5.97 | 2 1340 | 2 6175 | 1034 | 31 | |
| | | 2 4684 | 2 21975 | 3433 | 95 | |

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| * | * | | | | | |
| 2 3 | 2 10 | 2 1000 | 2 3500 | 343 | 14 | |
| 2 3.8 | 2 15.5 | 2 3112 | 2 12695 | 819 | 21 | (6-1) |
| 2 3.8 | 2 15.4 | 2 3067 | 2 12509 | 807 | 21 | (6-1) |
| 2 3.85 | 2 15.4 | 2 1632 | 2 6530 | 424 | 10 | (9-7) |
| 2 3.85 | 15.4 | 2 1463 | 2 5852 | 380 | 9 | (9-7) |
| 2 3.85 | 15.4 | 2 1143 | 2 4574 | 297 | 7 | (12-10) |
| 2 3.85 | 15.4 | 2 1398 | 2 5590 | 363 | 9 | (12-10) |
| - | - | 2 12815 | 2 51250 | 3433 | 91 | |

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| | | | | |
| 2006 | 1992 | 2005 | 1995 | |
| 1 | 1 | 1 | 1 | |
| 2 90 | 2 40 | 2 35 | 2 38 | |
| 4 | 1 | 1 | 1 | |
| - | | | | |
| 1400-0800 2000-1700 | 2200-0900 | 2200-0900 | 2200-0900 | |

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| 1743 / | 2 475 | 6 | |
| 3488 / | 2 250 | 3 | |
| * 2406 / | 2 170 | 2 | |
| ** 2859 / | 2 80 | 1 | |

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| 7 | 9 | 6 | 3 | 1 | 8 | |
| 1998 | 2006 | 2004 | 2000 | 1961 | 1990 | |
| 1998 | 2006 | 2005 | 2002 | 1963 | 1993 | |
| - | - | - | - | | | |
| 2 60 | 2 370 | 2 260 | 2 340 | 2 300 | 2 600 | |
| 1 | 2 | 2 | 1 | 2 | 2 | |
| - | - | - | - | 1 | 2 | |

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| 17 | | 5 |
| 15 | | 6 |
| 24 | | 7 |
| 18 | | 8 |
| 8 | | 9 |

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| 1997 | 1994 | 2000 | 2001 | |
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| 5 | 8 | 5 | 1 | |
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| 400 | 74 | 60 | 80 | |
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| 400 | 220 | 90 | 200 | |

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| 0 | 0 | 2 750 | 1 | | *1 |
| 0 | 0 | 2 750 | 1 | | *2 |
| 0 | 0 | 2 170 | 1 | | * |
| 0 | 0 | 2 450 | 2 | | * |
| 0 | 0 | 2 3000 | 7 | | |
| 50 | 0 | 2 3500 | 10 | | |
| 50 | 20 | 2 3000 | 3 | | 1 |
| 50 | 50 | 2 2000 | 3 | | 2 |
| 0 | 0 | 2 300 | 8 | | 1 |
| 30 | 15 | 2 1000 | 7 | | 2 |
| 30 | 15 | 2 1000 | 7 | | |

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| 2000 | 2001 | |
| 950 | 1562 | 2006 |
| 767 | 1562 | 2006 |

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$$.4.75 = ((0.25*3)+(0.5*5)+(0.25*6))$$

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| 300 | | |
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| 1000 | | |
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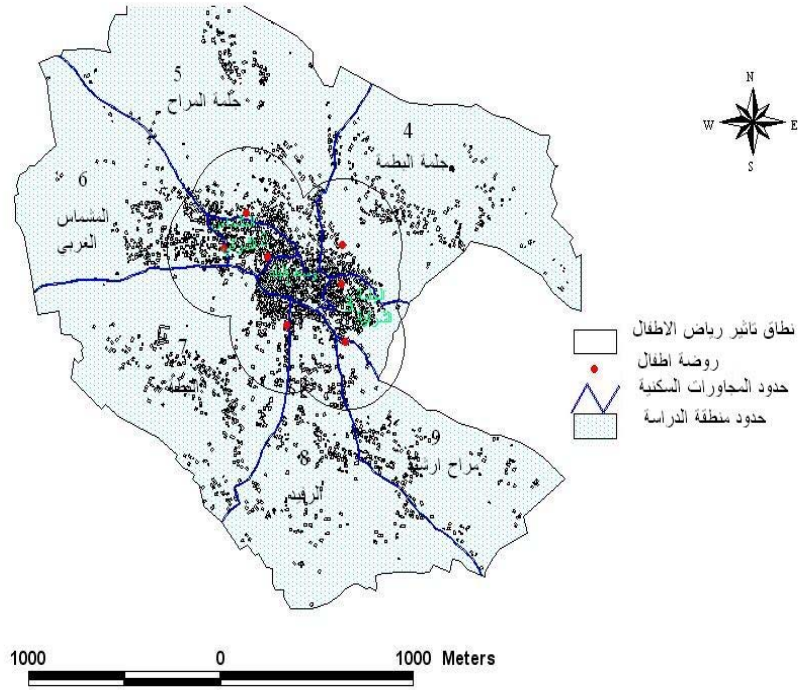
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| * | |
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| 4.7 | |
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| 2.7 | 3.5 | |
| 2.8 | 4 | |
| 4 | 4 | |
| 3.3 | 3.3 | |
| 2 | 3 | |
| 3 | 3.3 | |
| 3.6 | 3.6 | |
| 2 | 2 | |
| 2.5 | 2.5 | |

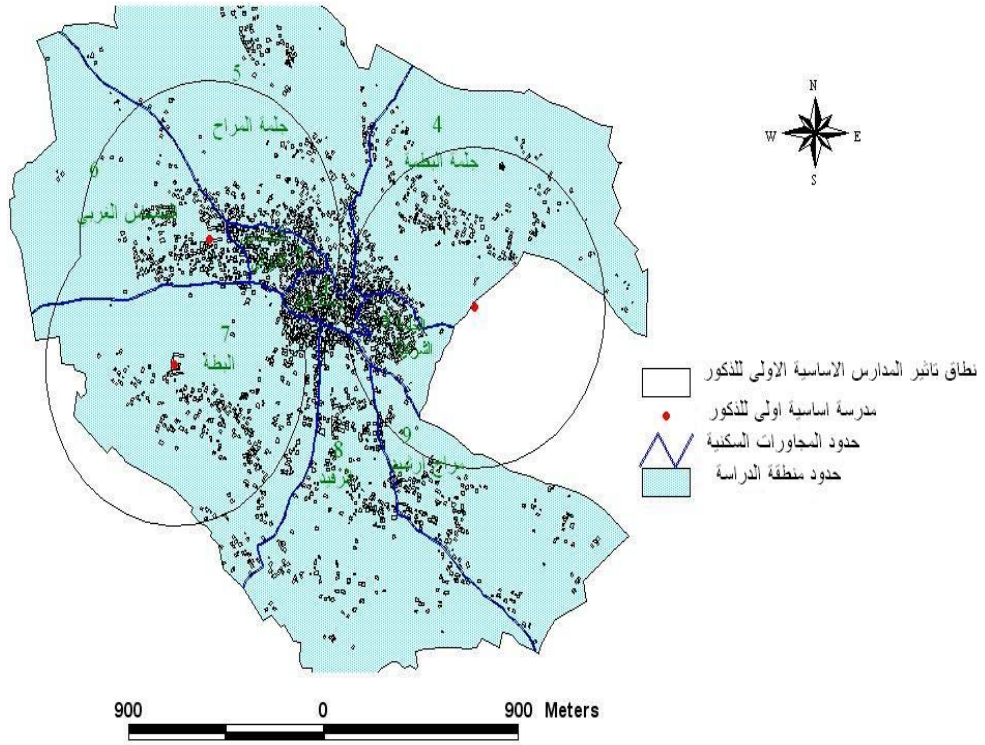
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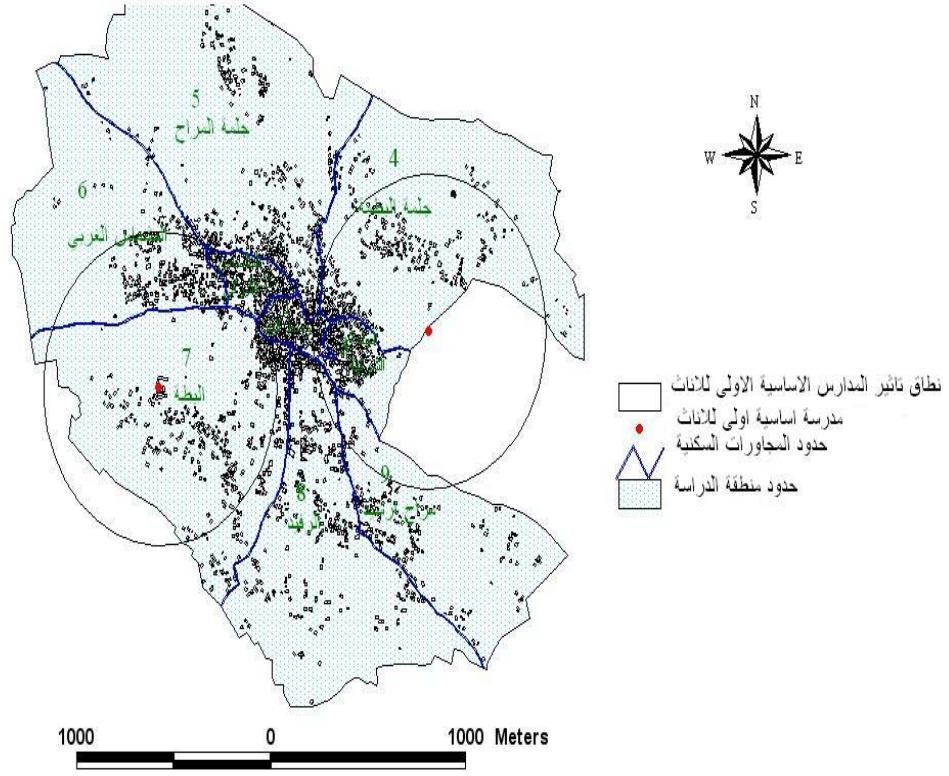
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| 4 | 4 | 4 | 4 | |
| 4 | 4 | 4 | 4 | |
| 4 | 4 | 2.8 | 3.3 | |
| 2.8 | 3.2 | 2.2 | 2.7 | |
| 3.9 | 4 | 2.9 | 4 | |
| 4 | 4 | 3.8 | 4 | |
| 4 | 4 | 4 | 3.9 | |
| 3.6 | 3 | 3 | 2.7 | |
| 2.8 | 2.7 | 2.2 | 2.2 | |

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| 3.5 | |
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| 3.97 | |
| 2.97 | |
| 2.73 | |

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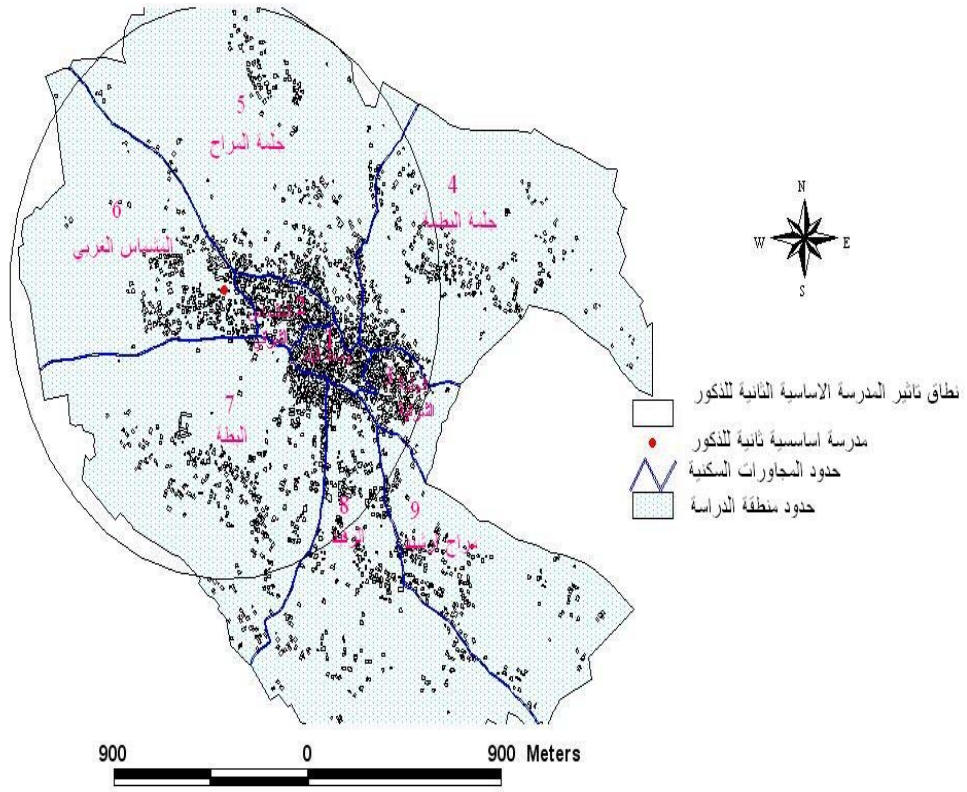
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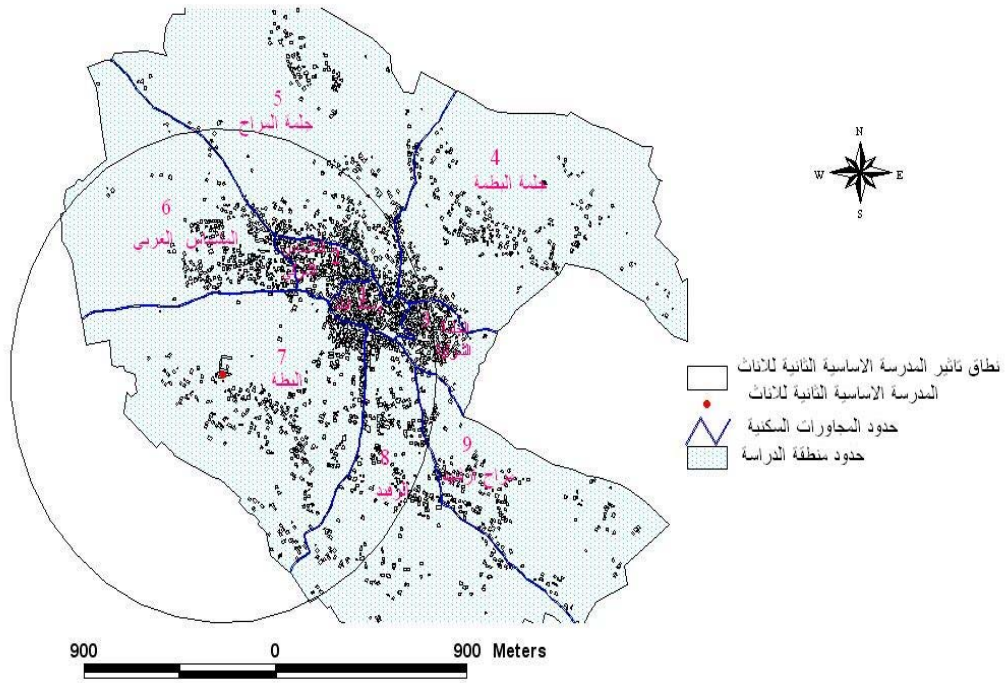
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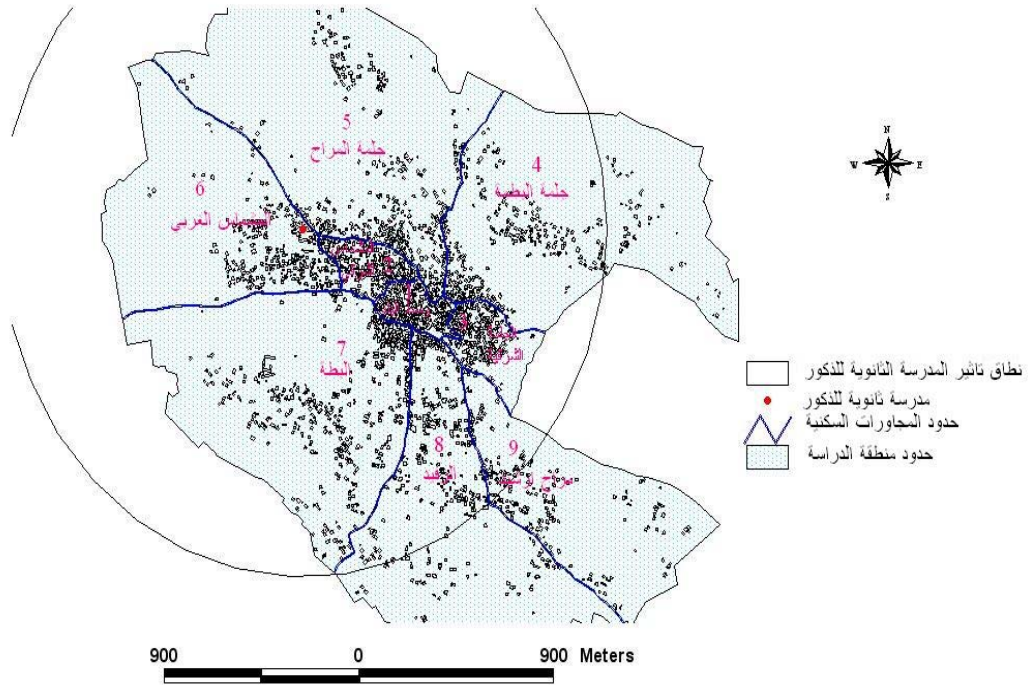
(6):



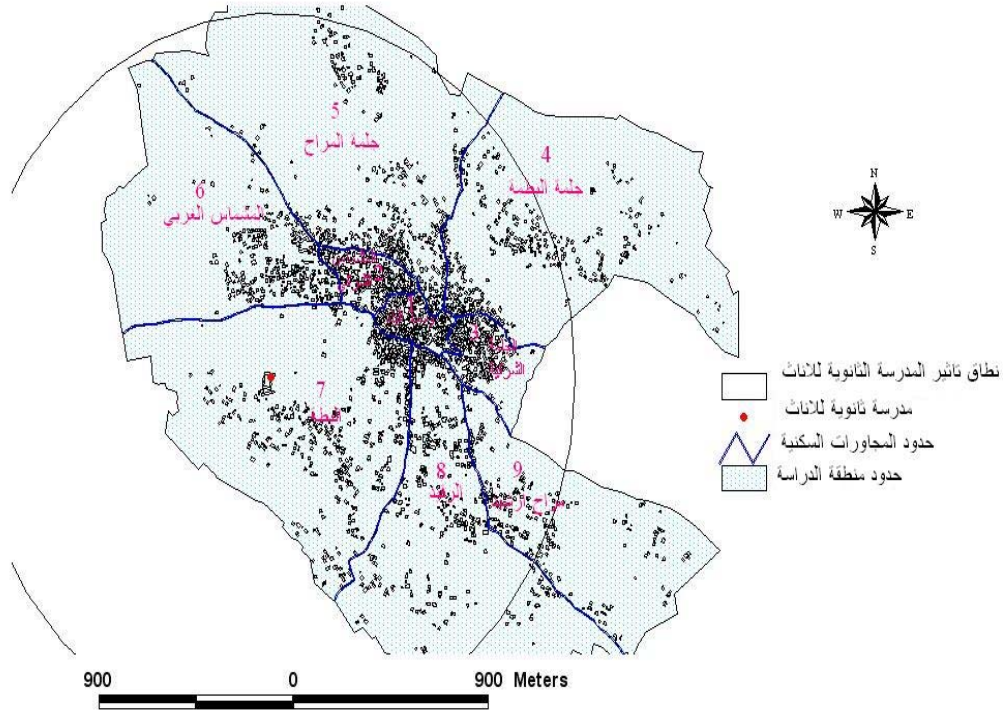
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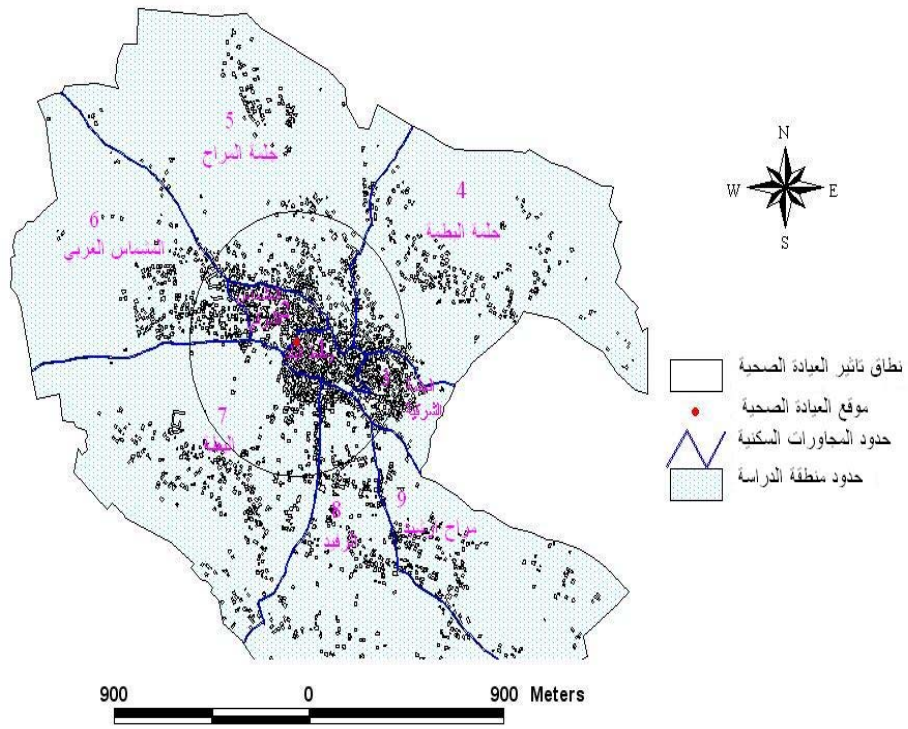
| | | | | |
|-----|-----|-----|-----|--|
| * | * | * | * | |
| 5.3 | 6 | 6 | 4 | |
| 5.3 | 6 | 6 | 4 | |
| 4.8 | 5.5 | 6 | 3 | |
| 3.5 | 4.3 | 4.3 | 1.9 | |
| 3.5 | 4.2 | 4.2 | 2 | |
| 3.4 | 4.1 | 4.1 | 1.9 | |
| 4.3 | 5 | 5.4 | 2.4 | |
| 3.5 | 4.2 | 4.4 | 1.8 | |
| 3.1 | 3.8 | 4.1 | 1.5 | |

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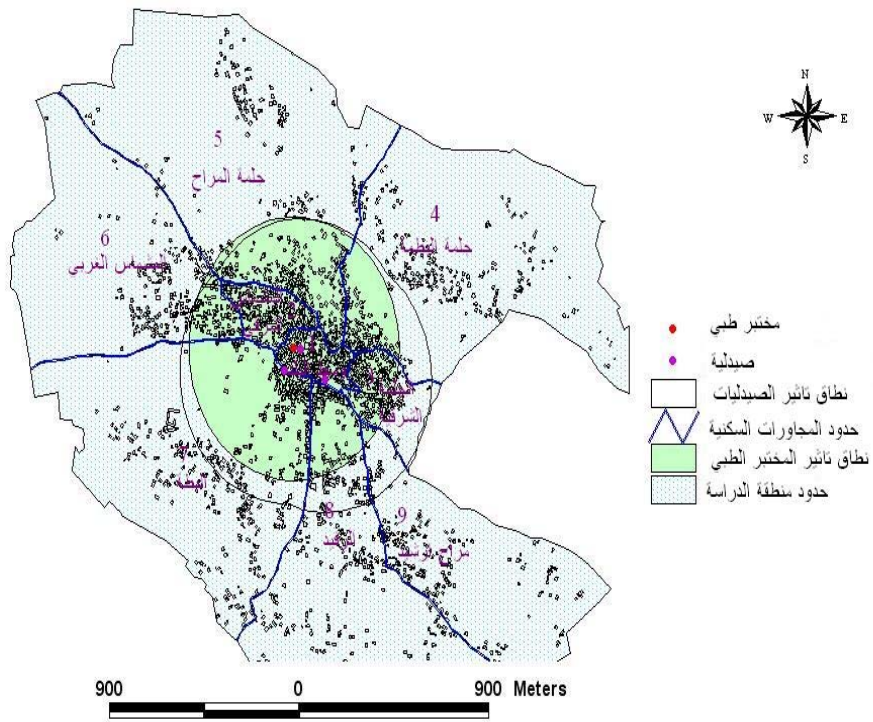
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خارطة رقم (10): نطاق تأثير العيادة الصحية



خارطة رقم (11): نطاق تأثير الصيدليات والمختبر الطبي



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3.1.6

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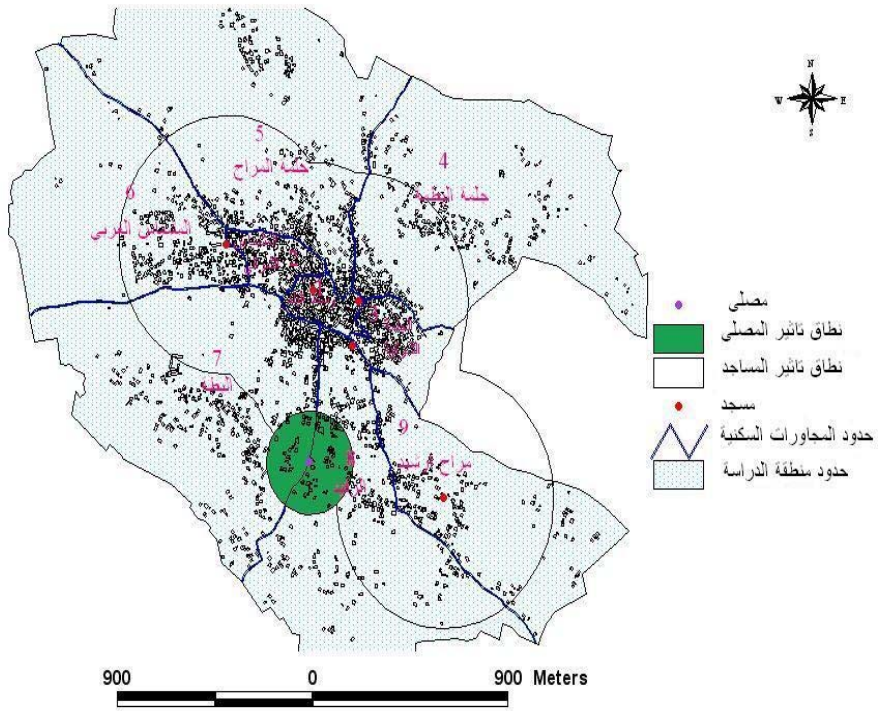
| | |
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| 6 | |
| 6 | |
| 6 | |
| 4.9 | |
| 4.9 | |
| 5.1 | |
| 5 | |
| 5.6 | |
| 5.7 | |

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خارطة رقم (12): نطاق تأثير المساجد



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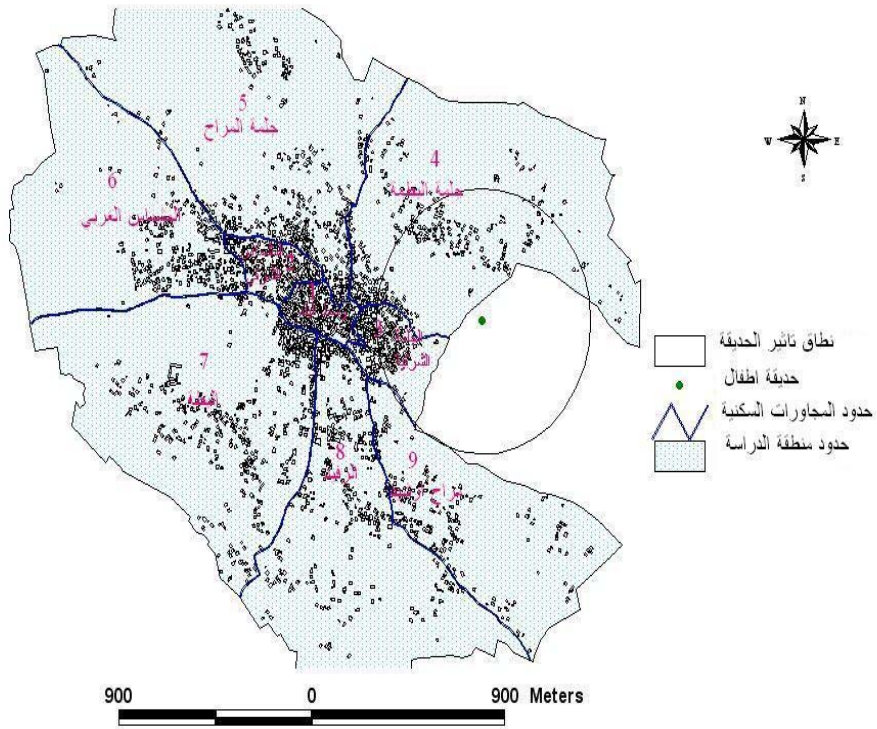
| | |
|-----|--|
| * | |
| 2 | |
| 1.5 | |
| 3.3 | |
| 2.5 | |
| 1.2 | |
| 1 | |
| 1.1 | |
| 1.3 | |
| 1.8 | |

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خارطة رقم (13) : نطاق تأثير الحدائق



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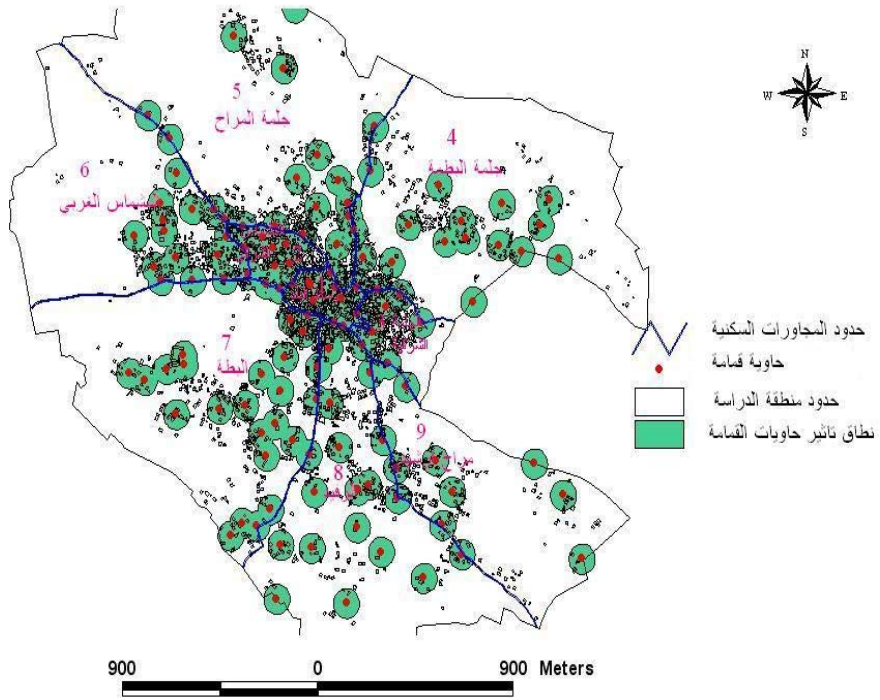
| | |
|-----|--|
| * | |
| 6 | |
| 5.8 | |
| 5.5 | |
| 5.5 | |
| 5.4 | |
| 5.5 | |
| 5.5 | |
| 5.6 | |
| 5 | |

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خارطة رقم (14) : نطاق تأثير خدمات النظافة (حاويات القمامة)



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|-----|------|--|
| 4.6 | % 70 | |
| 2.6 | % 39 | |
| 2.4 | % 36 | |
| 4 | % 60 | |
| 3.8 | % 57 | |
| 3.2 | % 47 | |
| 4.4 | % 67 | |
| 4.6 | % 71 | |
| 4.4 | % 68 | |

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|------|------|------|------|------|-----|--|
| | | / | | | | |
| 0.53 | 3.5 | 3.26 | 2.12 | 7.04 | 183 | |
| 0.44 | 3.41 | 3.94 | 2.63 | 8.03 | 273 | |
| 0.45 | 4.68 | 2.31 | 1.75 | 7.32 | 249 | |
| 0.29 | 3.76 | 0.39 | 2.18 | 7.5 | 345 | |
| 0.36 | 3.59 | 0.38 | 1.99 | 6.61 | 390 | |
| 0.21 | 3.66 | 0.55 | 2.34 | 7.49 | 352 | |
| 0.31 | 4.27 | 0.39 | 1.53 | 6.2 | 341 | |
| 0.31 | 3.84 | 0.51 | 2.17 | 7.69 | 377 | |
| 0.26 | 7.03 | 0.41 | 1.83 | 6.73 | 202 | |

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| | * | * | * | * | * | * | |
| 4.08 | 5.41 | 3.00 | 4.35 | 4.24 | 5.54 | 2.44 | |
| 4.59 | 4.51 | 2.82 | 5.26 | 5.26 | 6.00 | 3.66 | |
| 4.21 | 4.62 | 5.36 | 3.08 | 3.50 | 5.32 | 3.34 | |
| 3.58 | 3.00 | 3.52 | 0.53 | 4.36 | 5.50 | 4.61 | |
| 3.54 | 3.72 | 3.20 | 0.51 | 4.00 | 4.61 | 5.20 | |
| 3.51 | 2.21 | 3.22 | 0.74 | 4.68 | 5.49 | 4.70 | |
| 3.35 | 3.21 | 4.54 | 0.53 | 3.06 | 4.20 | 4.55 | |
| 3.77 | 3.21 | 3.68 | 0.69 | 4.34 | 5.69 | 5.04 | |
| 3.08 | 2.74 | 4.06 | 0.55 | 3.66 | 4.73 | 2.70 | |

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|------|------|------|--|
| 3.05 | 2.12 | 4.67 | |
| 2.85 | 1.72 | 4.54 | |
| 2.80 | 1.68 | 4.72 | |
| 2.42 | 2.00 | 3.91 | |
| 2.40 | 1.96 | 3.70 | |
| 2.52 | 1.84 | 3.77 | |
| 2.74 | 2.08 | 3.97 | |
| 2.46 | 2.12 | 3.79 | |
| 2.30 | 2.08 | 3.57 | |

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| 3 | 4.08 | 2 | 4.67 | | 1 |
| 1 | 4.59 | 3 | 4.54 | | 2 |
| 2 | 4.21 | 1 | 4.72 | | 3 |
| 5 | 3.58 | 5 | 3.91 | | 4 |
| 6 | 3.54 | 8 | 3.70 | | 5 |
| 7 | 3.51 | 7 | 3.77 | | 6 |
| 8 | 3.35 | 4 | 3.97 | | 7 |
| 4 | 3.77 | 6 | 3.79 | | 8 |
| 9 | 3.08 | 9 | 3.57 | | 9 |

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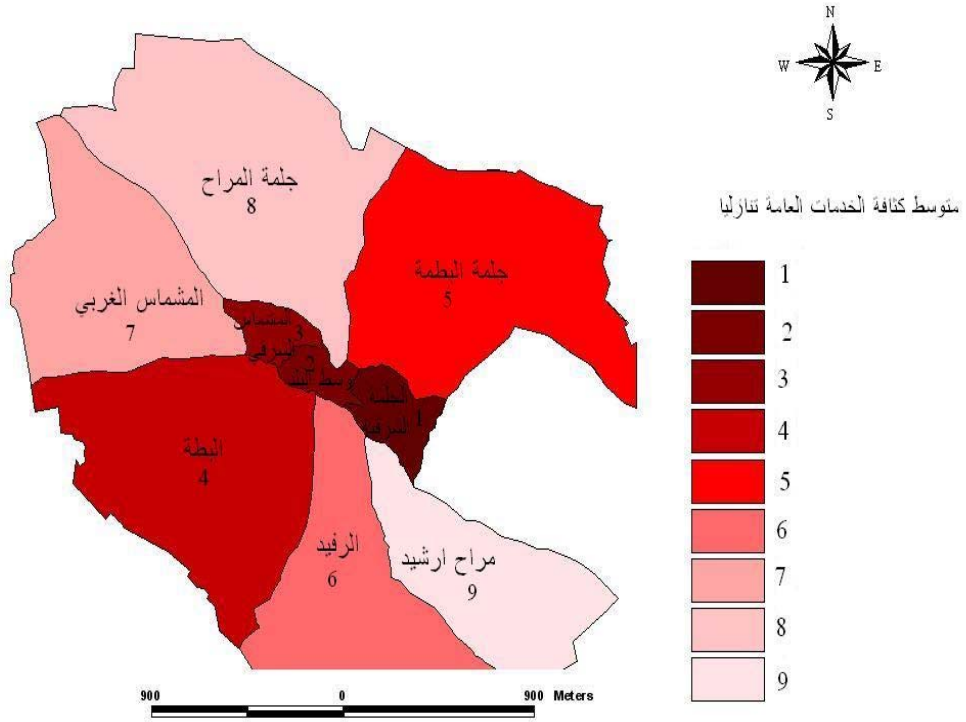
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|----|---|--|---|
| | | | |
| 2- | 8 | | 1 |
| 2- | 2 | | 2 |
| 2- | 5 | | 3 |
| 0 | 4 | | 4 |
| 0 | 6 | | 5 |
| 0 | 9 | | 6 |
| 1 | 1 | | 7 |
| 1 | 3 | | 8 |
| 4 | 7 | | 9 |

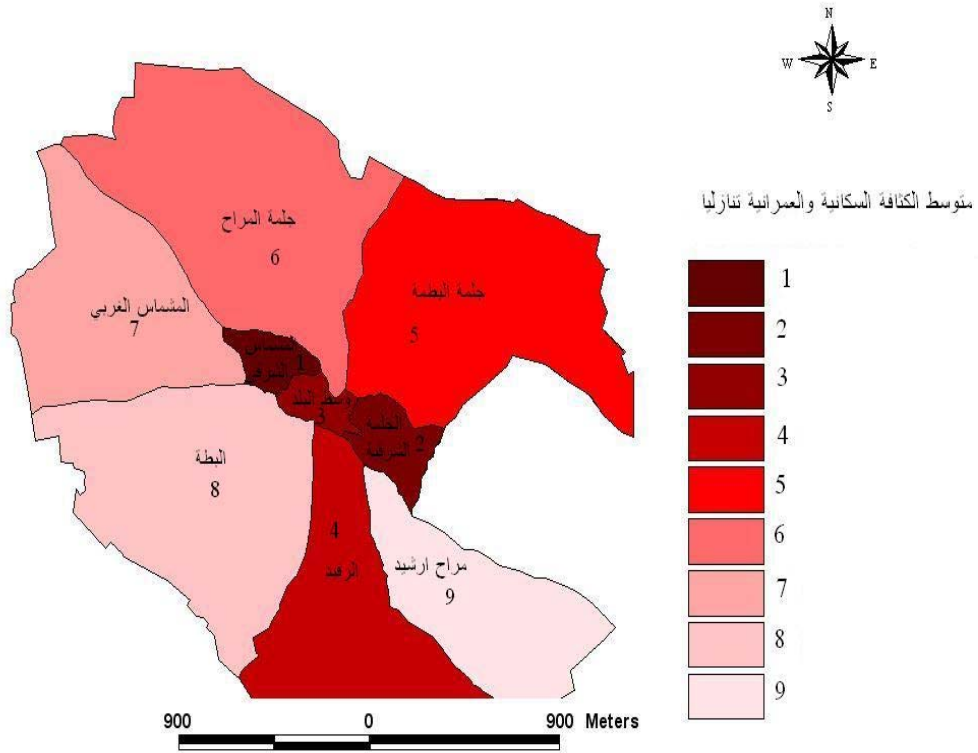
(15)

(16)

خارطة رقم (15): تباين توزيع متوسط الكثافة للخدمات العامة بين المجاورات السكنية لمنطقة الدراسة



خارطة رقم (16): تبين توزيع متوسط الكثافة السكانية والعمرائية بين المجاورات السكنية لمنطقة الدراسة



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" : **-1**

| | | |
|------|--------|--------------|
| t | T-test | " 0.05 |
| 0.05 | 0.004 | 2-tailed Sig |
| | | -3.971 |

"

" 0.05
(0.003) (0.857)

" : **- 2**

| | | |
|---------|--------|--------------|
| t | T-test | " 0.05 |
| | 0.332 | 2-tailed Sig |
| | | 1.032 |
| | | 0.05 |
| (0.616) | | |

(0.077)

" : **- 3**

| | | | |
|---------|--------|--------------|--------|
| t | T-test | " 0.05 | |
| | 0.103 | 2-tailed Sig | -1.842 |
| | | | 0.05 |
| (0.831) | | | |
| | | (0.077) | |

" : - 4

| | | | |
|------|--------|--------------|---------|
| t | T-test | " 0.05 | |
| 0.05 | 0.000 | 2-tailed Sig | -12.936 |
| " | | | |

| | | | |
|---|----------|---------|-----|
| | | " 0.05 | |
| | (0.056) | (0.655) | |
| | | | |
| " | : | | - 5 |

| | | | |
|------|-------|--------------|--------|
| | t | T-test | " 0.05 |
| 0.05 | 0.000 | 2-tailed Sig | 8.089 |
| " | | | |

" 0.05
(0.369) (0.341)

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| | | |
|-------|--------------|---------|
| t | T-test | " 0.05 |
| 0.000 | 2-tailed Sig | -16.823 |
| | | 0.05 |
| | | " |

"0.05
(0.019) (0.754)

: 5.6

: 1.5.6

% 55.8

42.16 (57)

% 63.7

1000 1.58

:(57)

| | 1000 | | | | |
|--------|--------|------|--------|-------|--|
| % 7.7 | % 23.1 | 1.58 | % 38.4 | 52.08 | |
| % 11.8 | % 47.1 | 1.32 | % 38.2 | 50.00 | |
| % 2.9 | % 26.5 | 1.47 | % 52.9 | 44.71 | |
| % 10.9 | % 41.3 | 1.35 | 5 32.6 | 45.59 | |
| % 8.5 | % 49.2 | 1.27 | % 35.6 | 47.81 | |
| % 6.4 | % 42.6 | 1.26 | % 48.9 | 46.15 | |
| % 5.4 | % 29.1 | 1.31 | % 63.7 | 42.16 | |
| % 6.1 | % 28.6 | 1.45 | % 61.3 | 46.69 | |
| % 3.3 | % 30 | 1.23 | % 53.2 | 45.57 | |

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2.5.6

% 61.3

% 7.4

% 10.5

(58)

% 6.8

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|--------|------|--------|--------|--------|--|
| * 1991 | | | | | |
| % 7.7 | % 23 | % 26.9 | % 61.5 | % 11.5 | |
| % 11.8 | % 59 | % 5.9 | % 35.3 | % 2.9 | |
| % 32.4 | % 69 | % 5.9 | % 50 | | |
| % 37.0 | % 33 | % 4.3 | % 30.5 | % 2.2 | |
| % 37.3 | % 68 | % 8.3 | % 35.6 | % 5.1 | |
| % 33.3 | % 47 | % 2.1 | % 27.7 | | |
| % 65.5 | % 64 | % 1.8 | % 34.5 | % 1.8 | |
| % 36.7 | % 63 | % 16.3 | % 26.5 | % 4.1 | |
| % 53.3 | % 60 | % 6.7 | % 56.7 | | |

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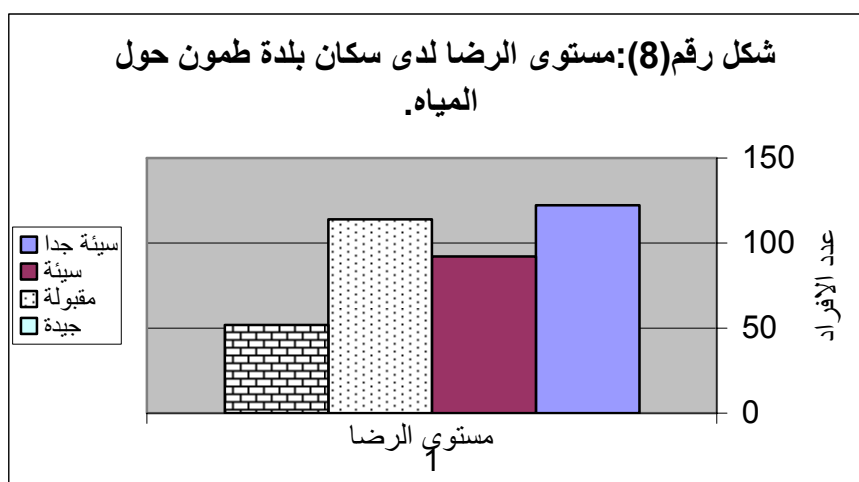
3.5.6

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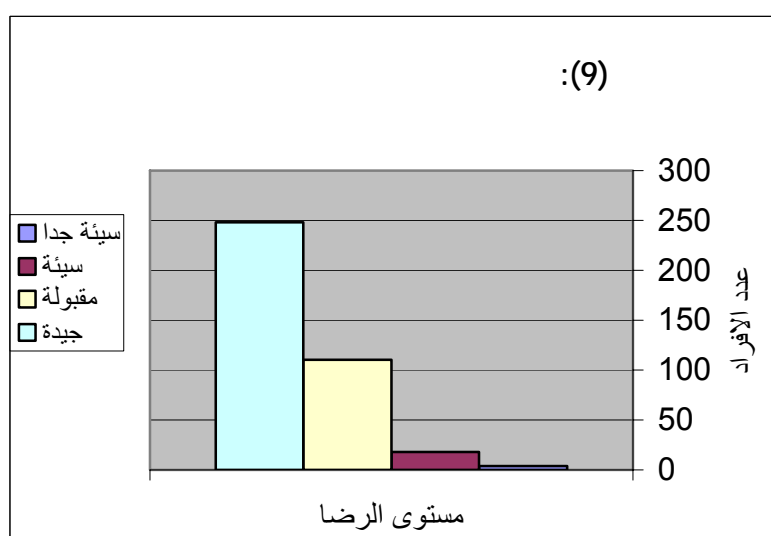
800 . % 55

(8)



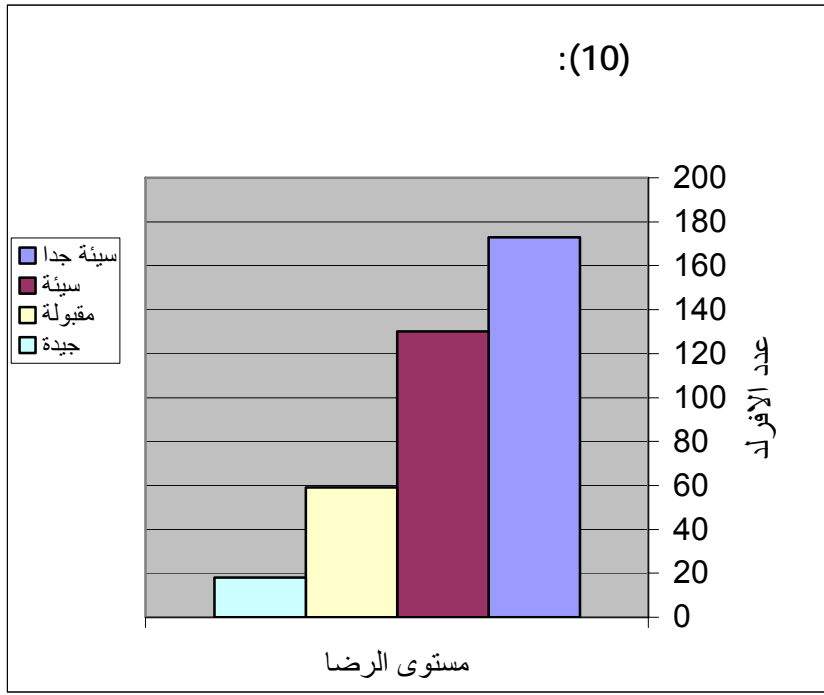
: : % 95

(9)



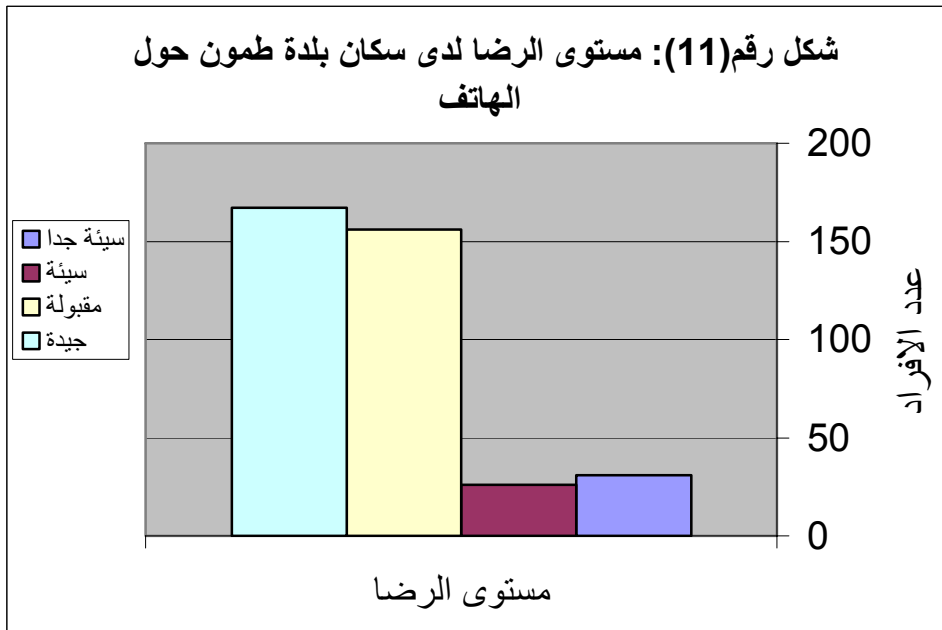
250 : : % 80 . 5

(10).



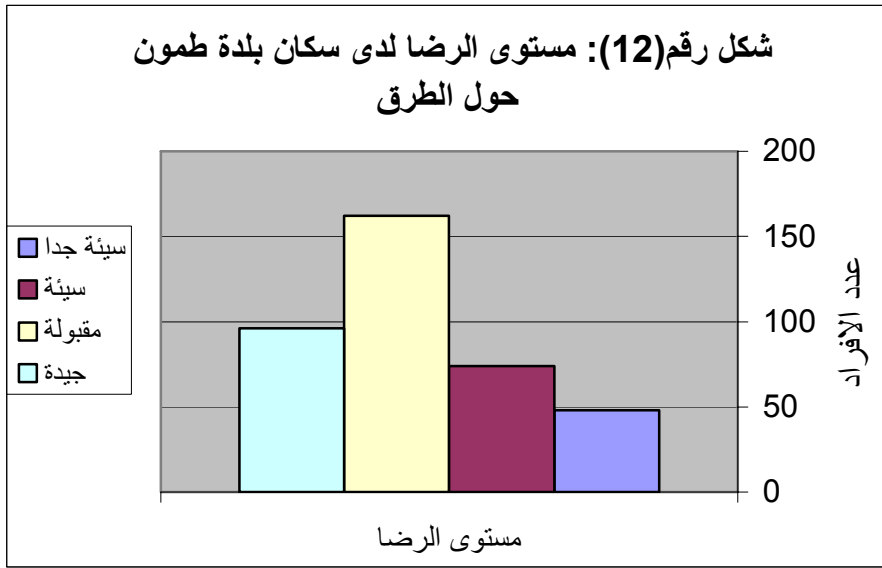
: :

(11).



: : % 68

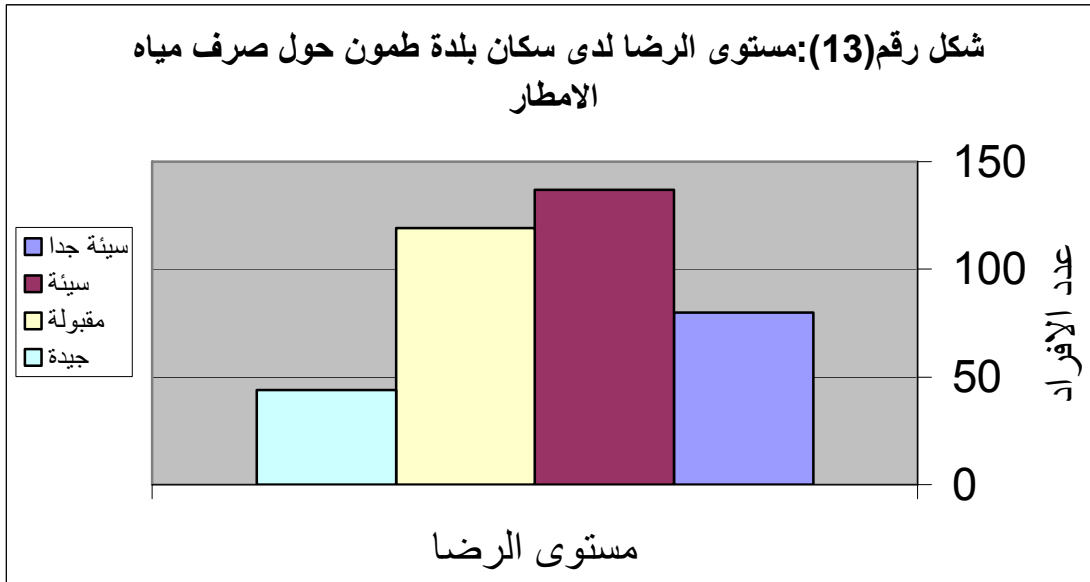
(12).



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(13).

% 57



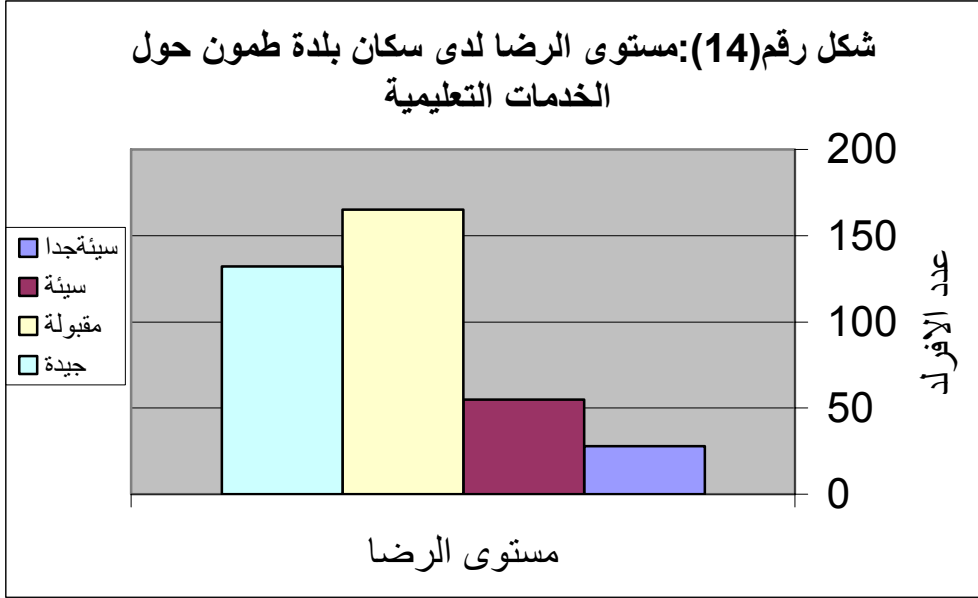
4.5.6

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: % 78

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.(14)

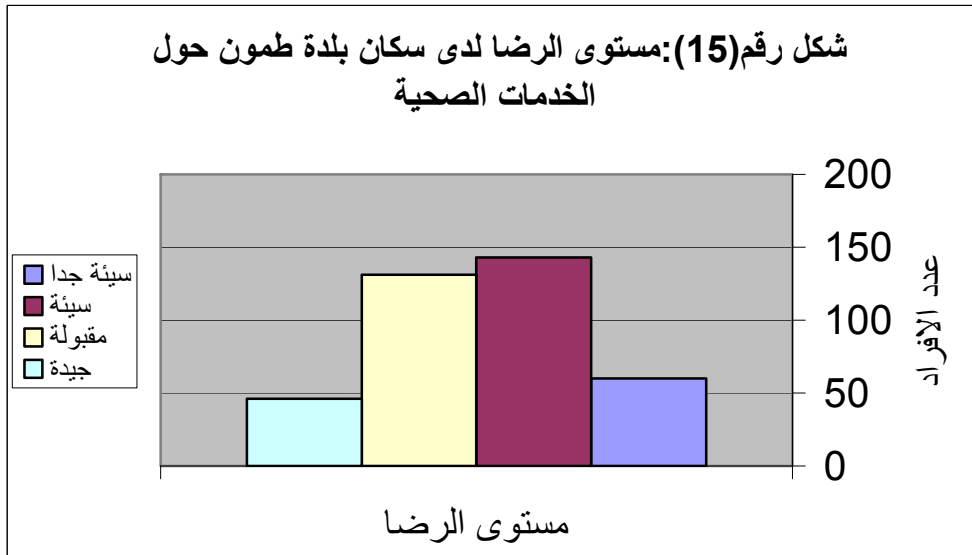


: % 58

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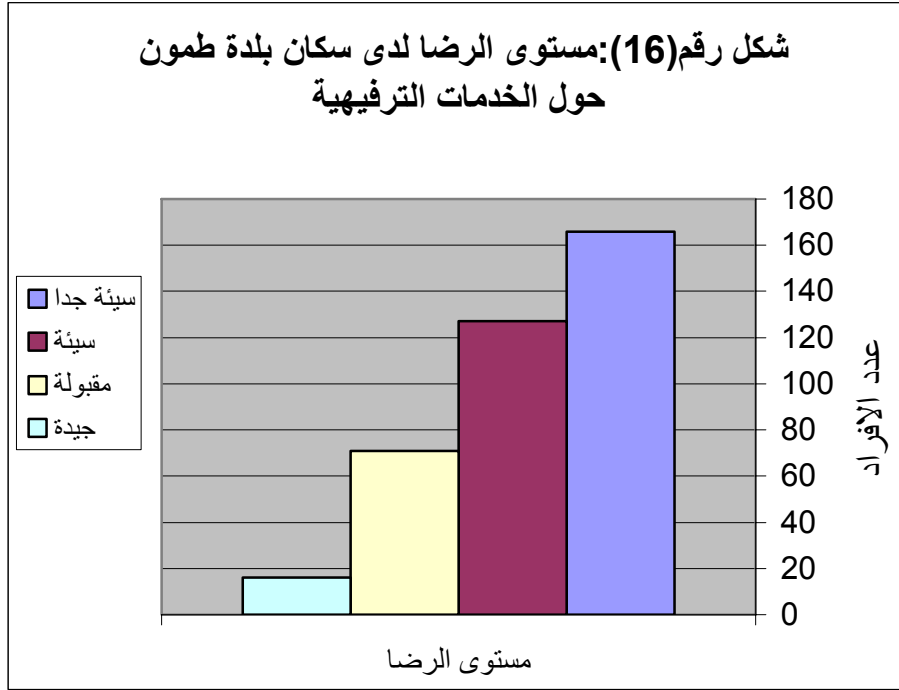
.(15)

% 34



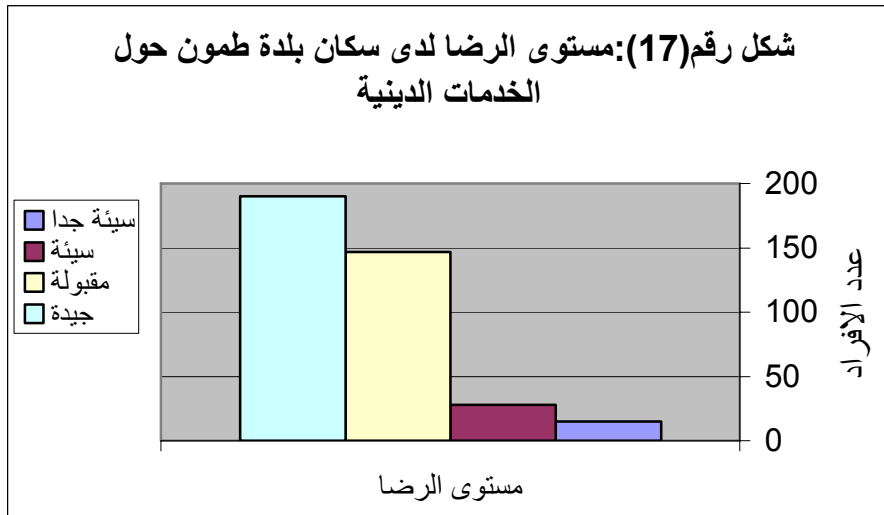
% 77 :: :

(16).



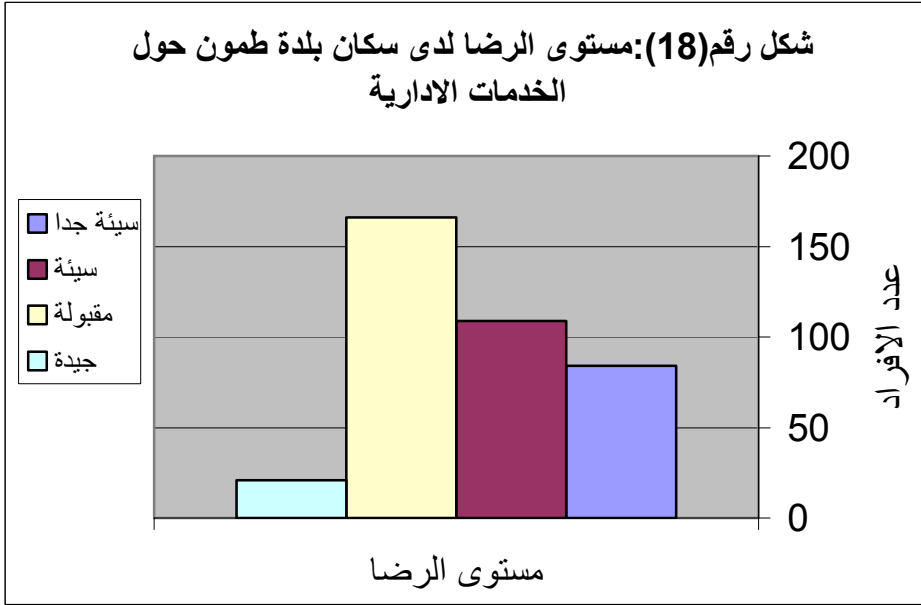
% 89 :: :

(17).



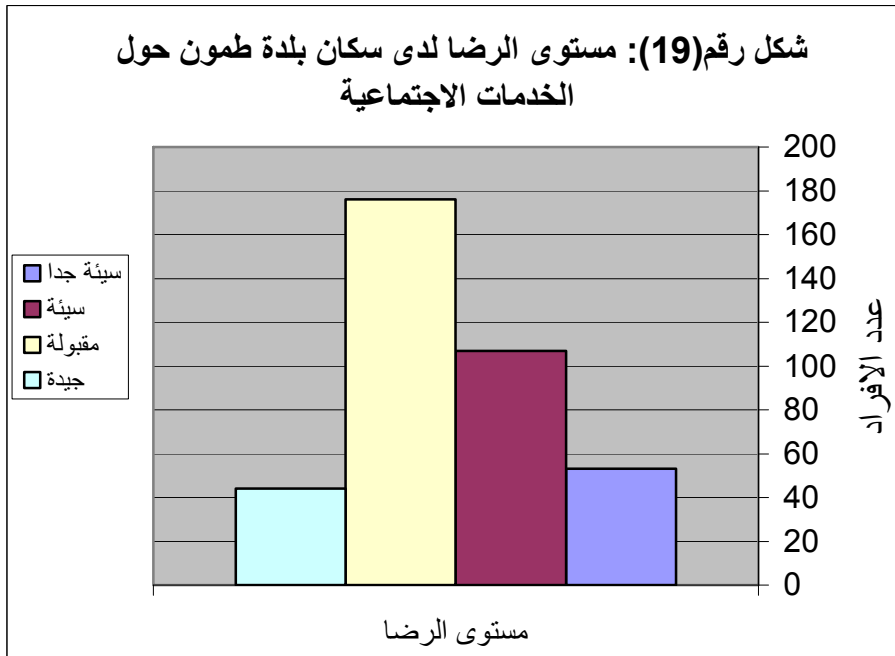
: : % 51

(18).



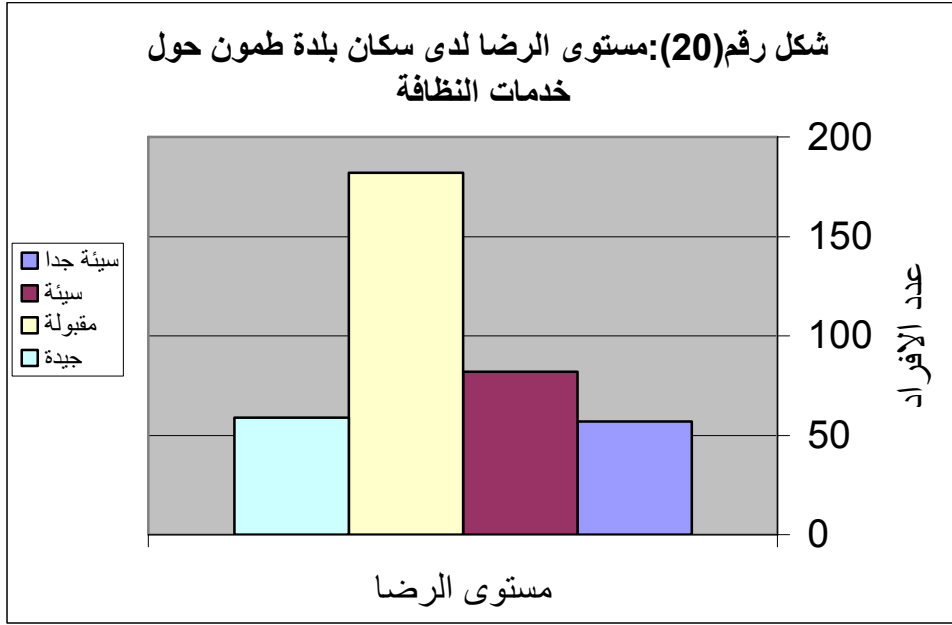
: :: % 58

(19).



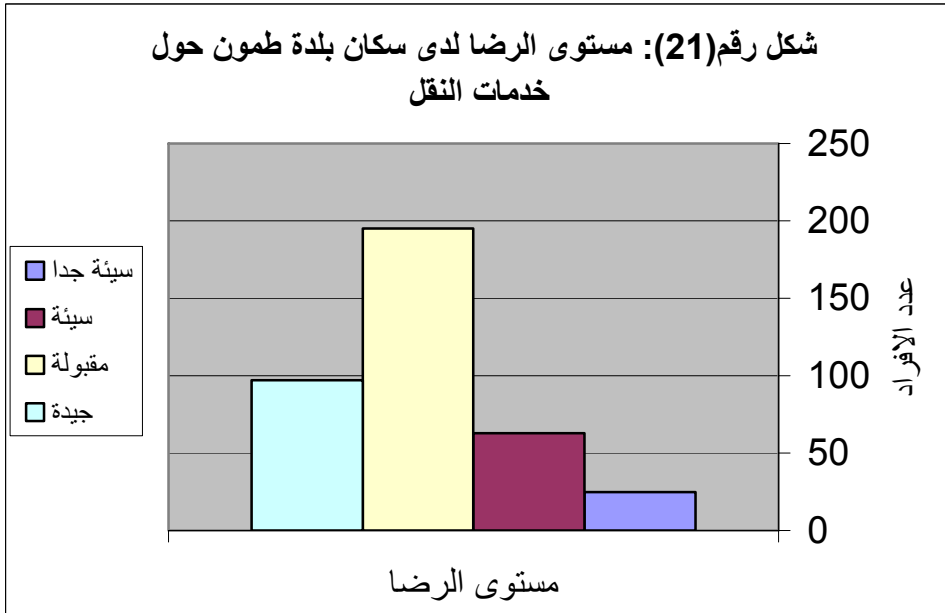
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| 2 5000 | 487 | | |
| 2 12500 | 1162 | | |
| 2 12000 | 1145 | | |
| 2 6500 | 602 | | |
| 2 6000 | 539 | | |
| 2 4500 | 421 | | |
| 2 5500 | 515 | | |
| 2 2000 | 14846 | | |
| 2 9000 | 14846 | | |
| - | 14846 | | |
| - | 14846 | | |
| - | 14846 | | |
| 2 22250 | 14846 | | |
| 2 500 | 14846 | | |
| 2 1000 | 14846 | | |
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:(Threatens)



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| * | | 2009-2007 | |
| |) (| 2011-2009 | |
| |) (| 2013-2011 | |
| | + + () | 2015-2013 | |
| | + + () | 2017 - 2015 | |

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| 12 | 49 | 2 1000-500 | 100 - 50 | 1 |
| 12 | 189 | 2 1000-500 | 100 - 50 | 2 |
| 5 | 76 | 2 1000-500 | 100 - 50 | 3 |
| 7 | | 2 1000-500 | 100 - 50 | 4 |
| 5 | 199 | 2 1000-500 | 100 - 50 | 5 |
| 10 | 28 | 2 1000-500 | 100 - 50 | 6 |
| 7 | 116 | 2 1000-500 | 100 - 50 | 7 |

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| | | | | |
| 5 | | 2 4000 | 400-350 | 1 |
| | 126/125/124 | | | |
| 7 | 45/44 | 2 4000 | 400-350 | 2 |
| 12 | 32 | 2 4000 | 400-350 | 3 |

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|----|-----|--------|-----------|---|
| | | | | |
| 5 | 228 | 2 4000 | 400 – 350 | 1 |
| 11 | 168 | 2 4000 | 400 – 350 | 2 |
| 12 | 71 | 2 5000 | 450 – 400 | 3 |

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| 4 | 59 | 2 3500 | 350 – 280 | 1 |
| 7 | 64/63 | 2 3500 | 350 – 280 | 2 |

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| 5 | 228 | 2 3500 | 350 - 280 | 1 |
| 12 | 24/23 | 2 4000 | 350 - 280 | 2 |

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| 5 | 228 | 2 4500 | 421 | |
| 4 | 61/60 | 2 5500 | 515 | |

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| 7 | | 2 600 | 1 | |
| 12 | 48 | 2 1400 | 2 | |

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| | | 2 | | |
| 7 | | 550 | 1 | |
| 12 | 52 | 600 | 2 | |
| 7 | | 340 | 3 | |
| 5 | 228 | 260 | 4 | |
| 4 | 51 | 100 | 5 | |
| 12 | 199 | 370 | 6 | |
| 7 | 28 | 300 | 7 | |
| 4 | 87 | 500 | 8 | () |

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| | | | | |
| 11 | 141 | 2 2000 | 1 | |
| 5 | 30 | 2 2500 | 2 | |
| 5 | 126/125/124 | 2 2500 | 3 | |
| 7 | 118 | 2 2500 | 4 | |

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| 7 | 53 | 2 4500 | 1 |
| 12 | 10/9 | 2 4500 | 2 |
| 5 | 133/129 | 2 4000 | 3 |

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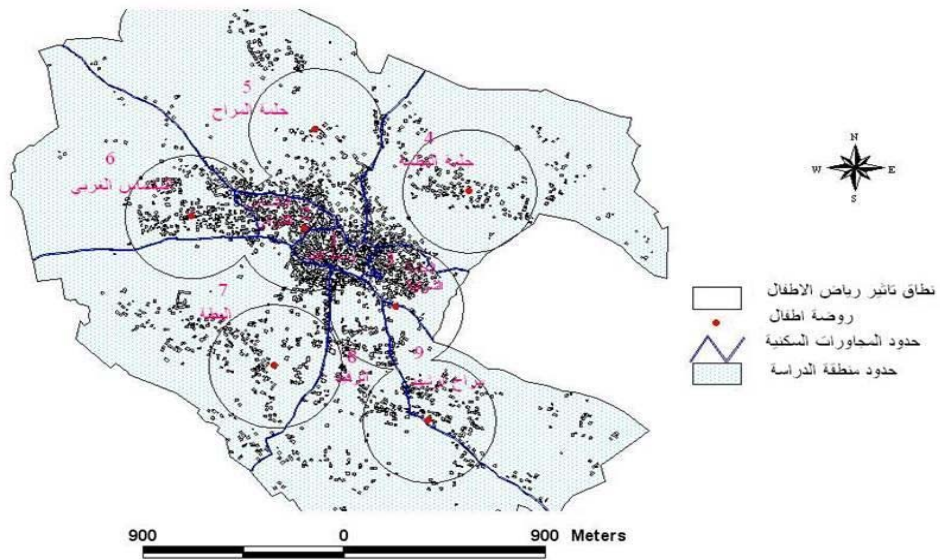
(7

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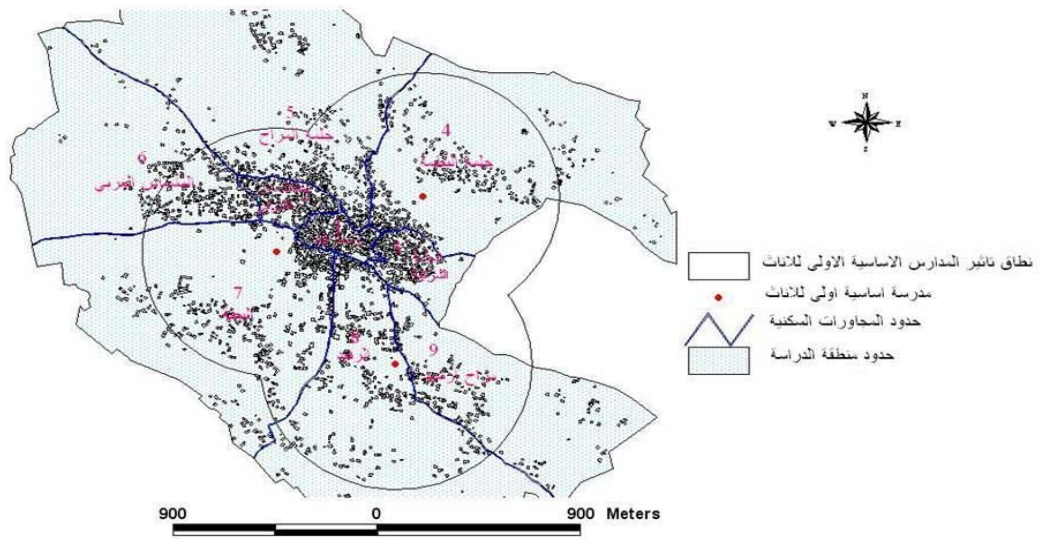
) 2 1000

(28)

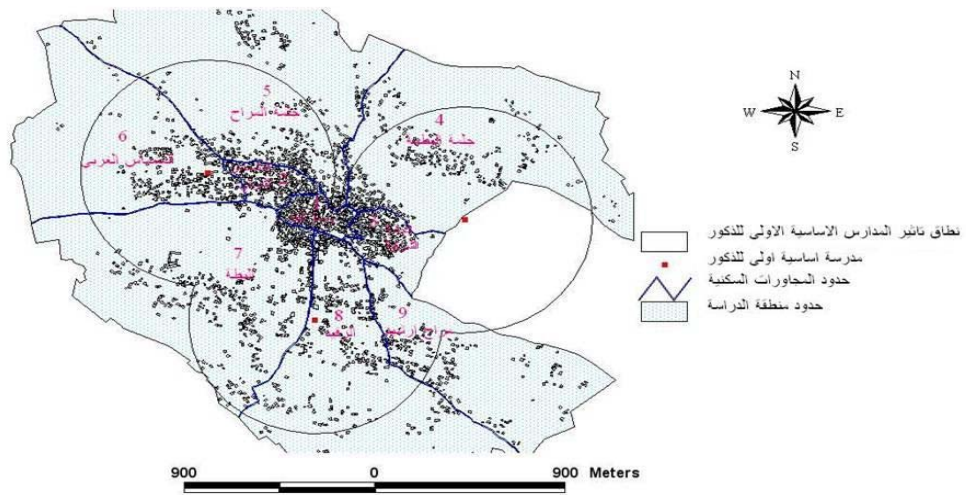
خارطة رقم (17): نطاق تأثير رياض الاطفال حسب التوزيع المقترح



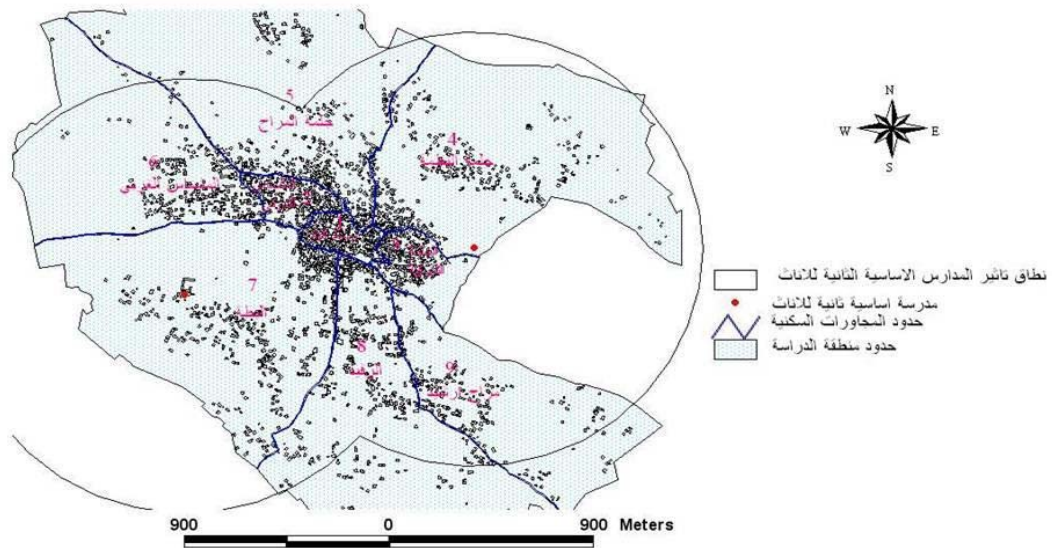
خارطة رقم (18): نطاق تأثير المدارس الاساسية الاولى لثلاثات حسب التوزيع المقترح



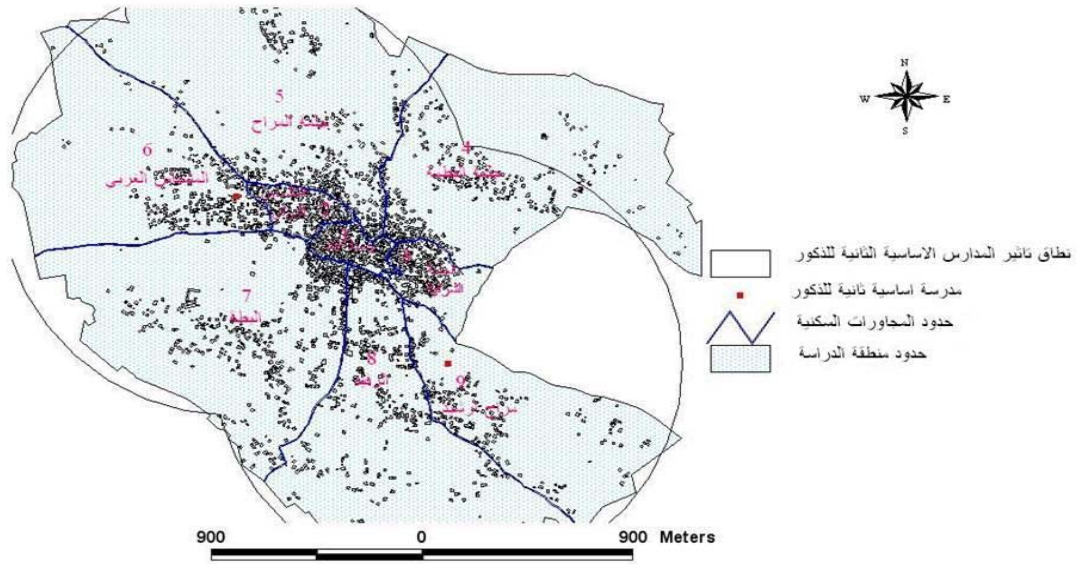
خارطة رقم (19): نطاق تأثير المدارس الاساسية الاولي للذكور حسب التوزيع المقترح



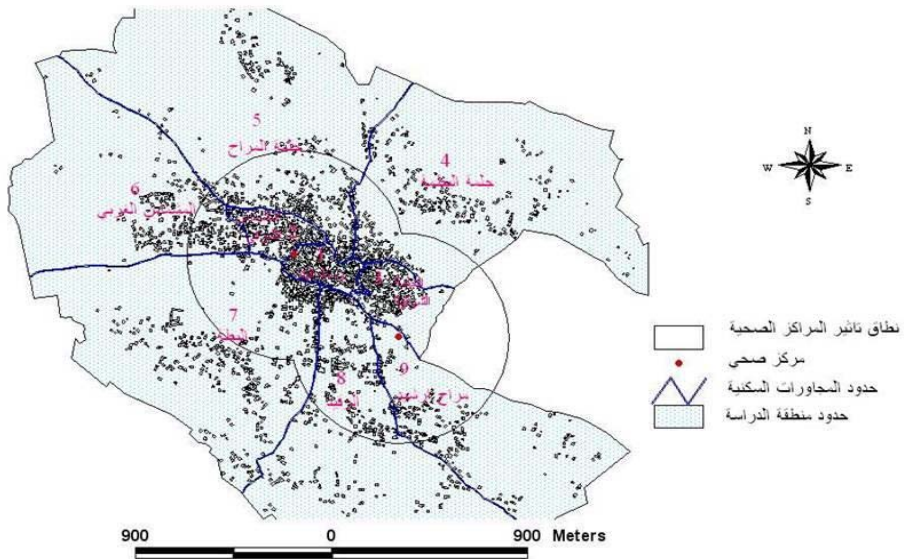
خارطة رقم (20): نطاق تاثير المدارس الاساسية الثانية للاناات حسب التوزيع المقترح



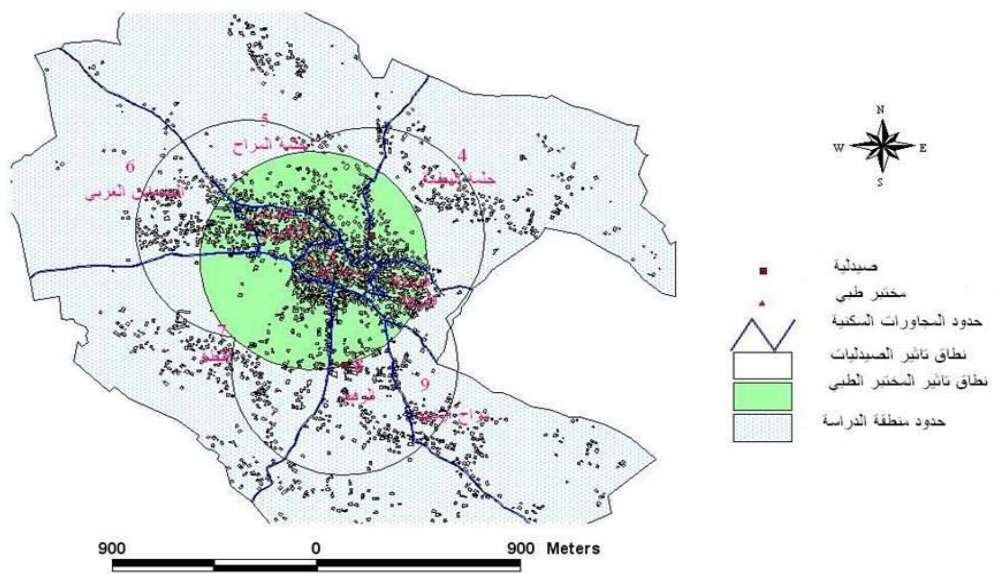
خارطة رقم (21): نطاق تأثير المدارس الأساسية الثانية للذكور حسب التقسيم المقترح



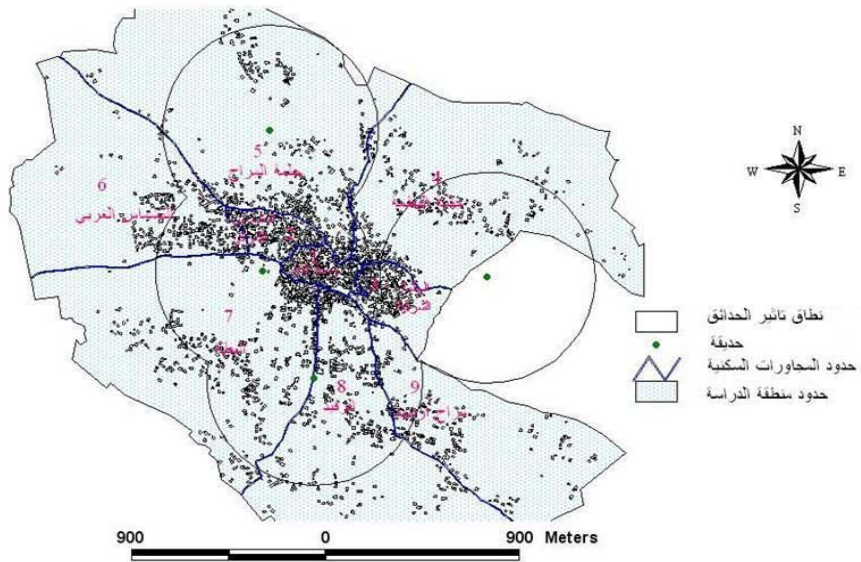
خارطة رقم (22): نطاق تأثير المراكز الصحية حسب التوزيع المقترح



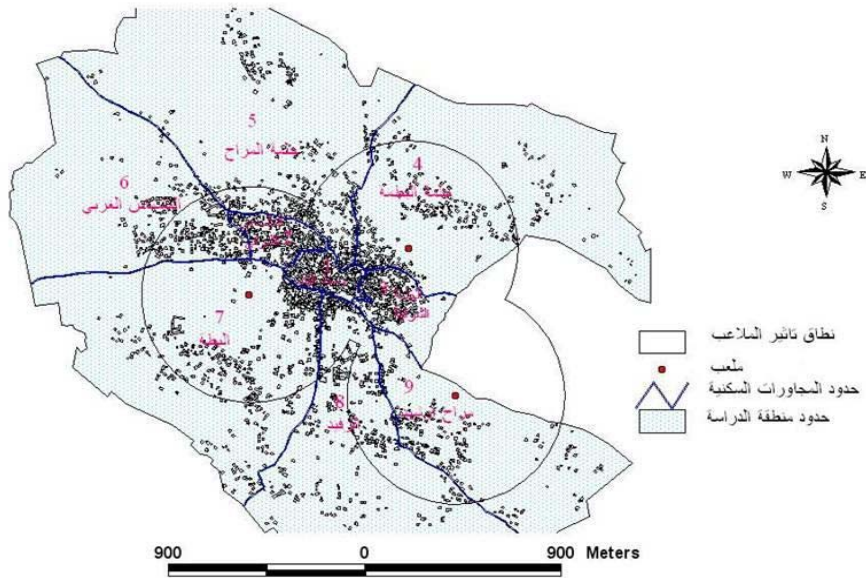
خارطة رقم (23): نطاق تأثير الصيدليات والمختبر الطبي حسب التوزيع المقترح



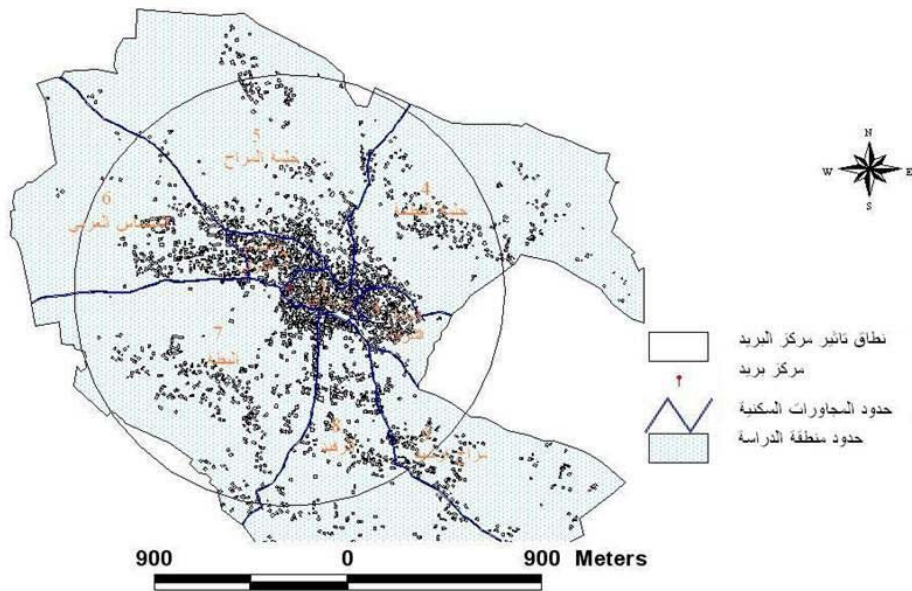
خارطة رقم (25): نطاق تأثير الحدائق حسب التوزيع المقترح



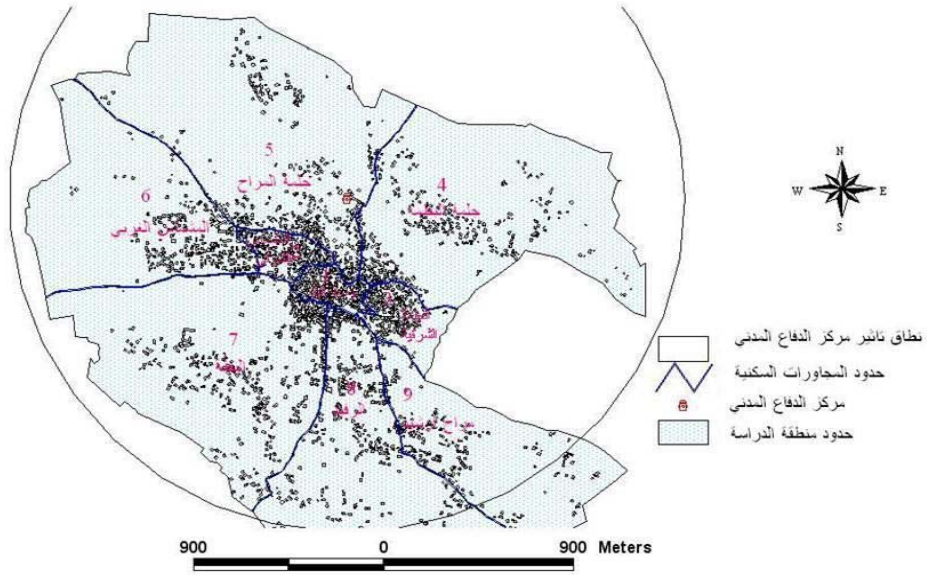
خارطة رقم (26): نطاق تأثير الملاعب حسب التوزيع المقترح



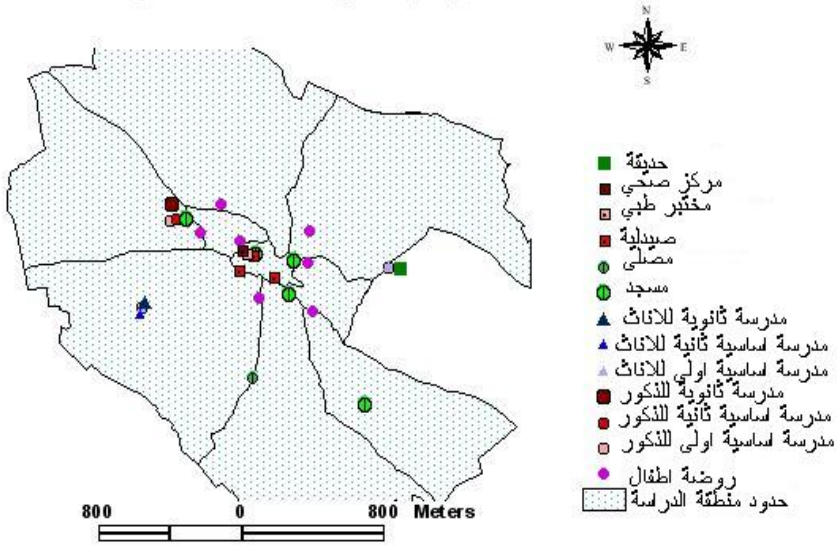
خارطة رقم (27): نطاق تاثير مركز البريد المقترح



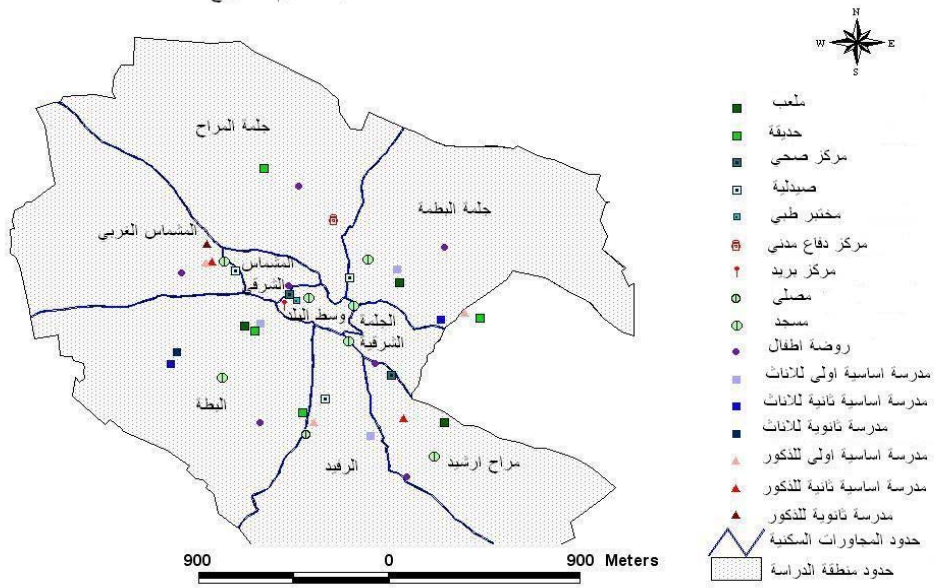
خارطة رقم (28): نطاق تأثير مركز الدفاع المدني المقترح



خارطة رقم (29): توزيع الخدمات العامة في بلدة طمون



خارطة رقم (30): التوزيع المقترح للخدمات العامة في بلدة طمون
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. WWW.qapatia.edu.ps :

. 2006 :

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. WWW.momra.gov.sa .

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. WWW.momra.gov.sa 2003

: (2)

Carter, H. **The Study of Urban Geography**, Edward Arnold, London, 1981.

Chapin, F.S. and Kaiser, E.J. **Urban Land Use Planning**, University of Illinois Press, Urbana.

Cresswell, R. **Quality in Urban Planning and Design**, Newnes-Butterworths, London.

Easa, S. **Urban Planning and Development: Applications of Geographic Information Systems (GIS)**, ASCE, Virginia.

FAO. **Guidelines for Land Use Planning**, FAO Publications, Development Series No.1, Rome, 1993.

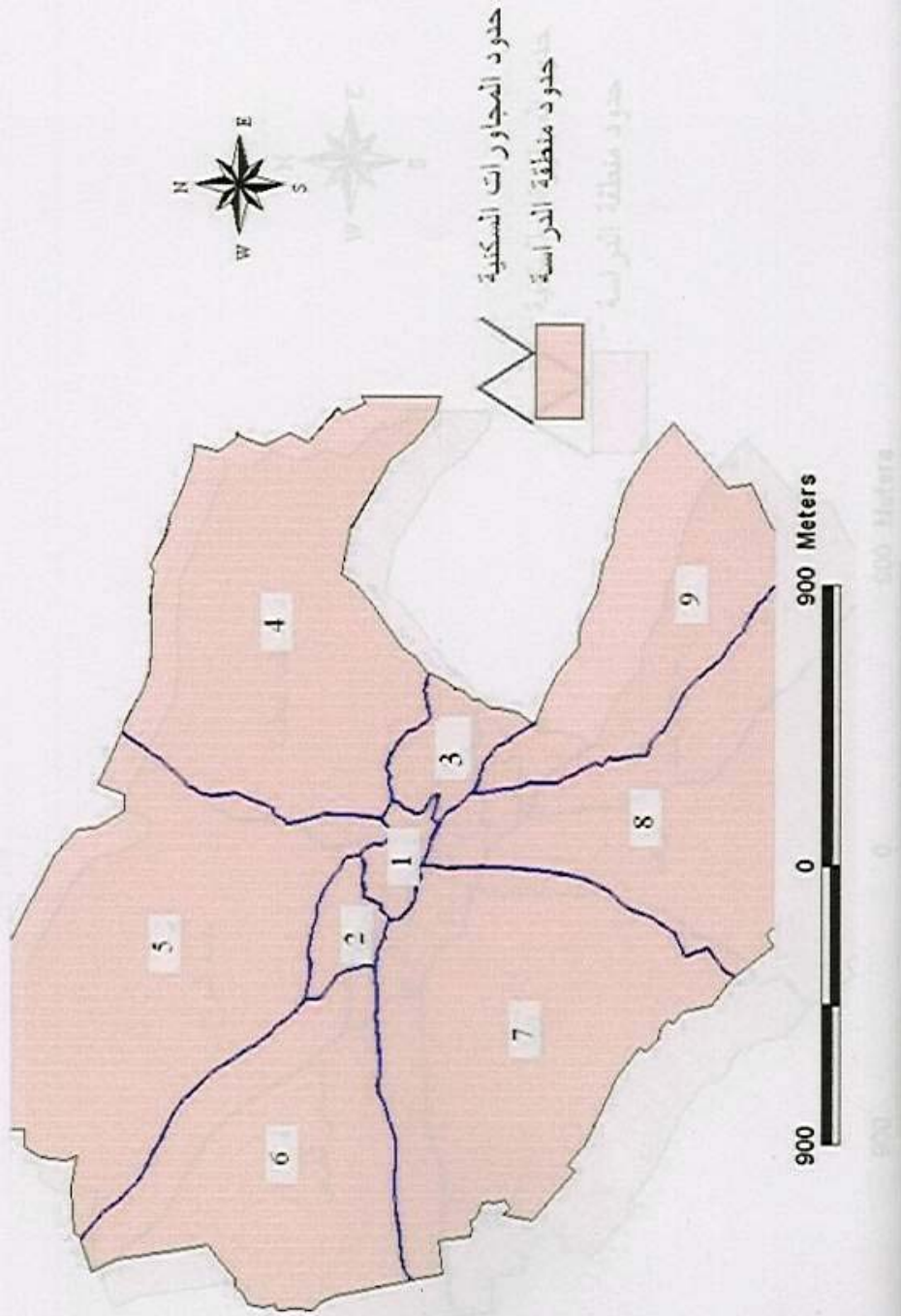
Koppelman, L. and De Chiara, J. **Urban Planning and Design Criteria**, Van Nostrand Reinhold Company, New York, 1982.

Mather, A.S. **Land Use**, John Wiley and Sons Inc., New York, 1984.

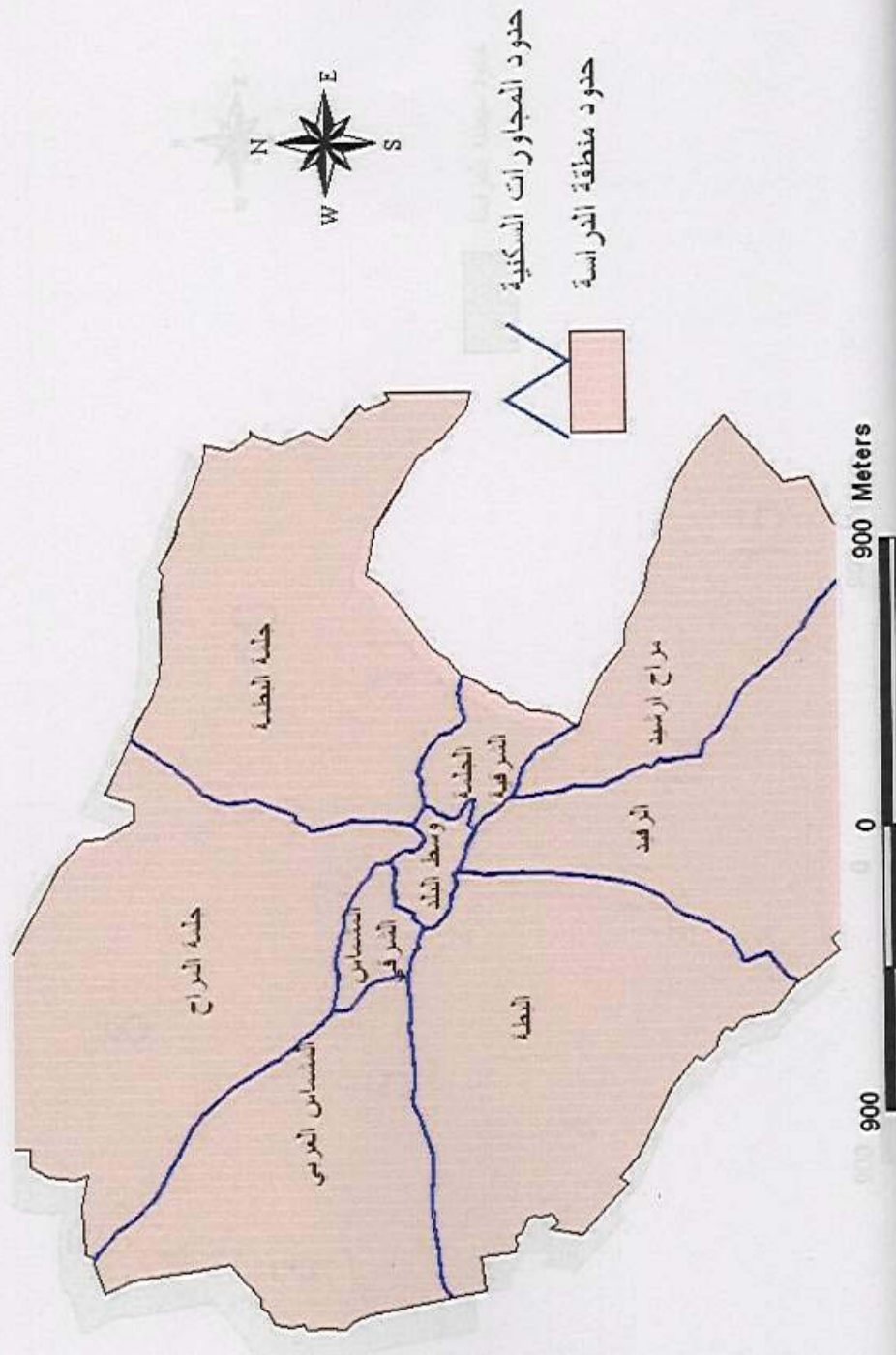
Ministry of Health (MOH). **The Status of Health in Palestine**, Annual Report, Ramallah, 2002.

Ministry of Planning and International Cooperation (MOPIC). **The Regional Plan for the West Bank Governorates**, Ramallah, 1999.

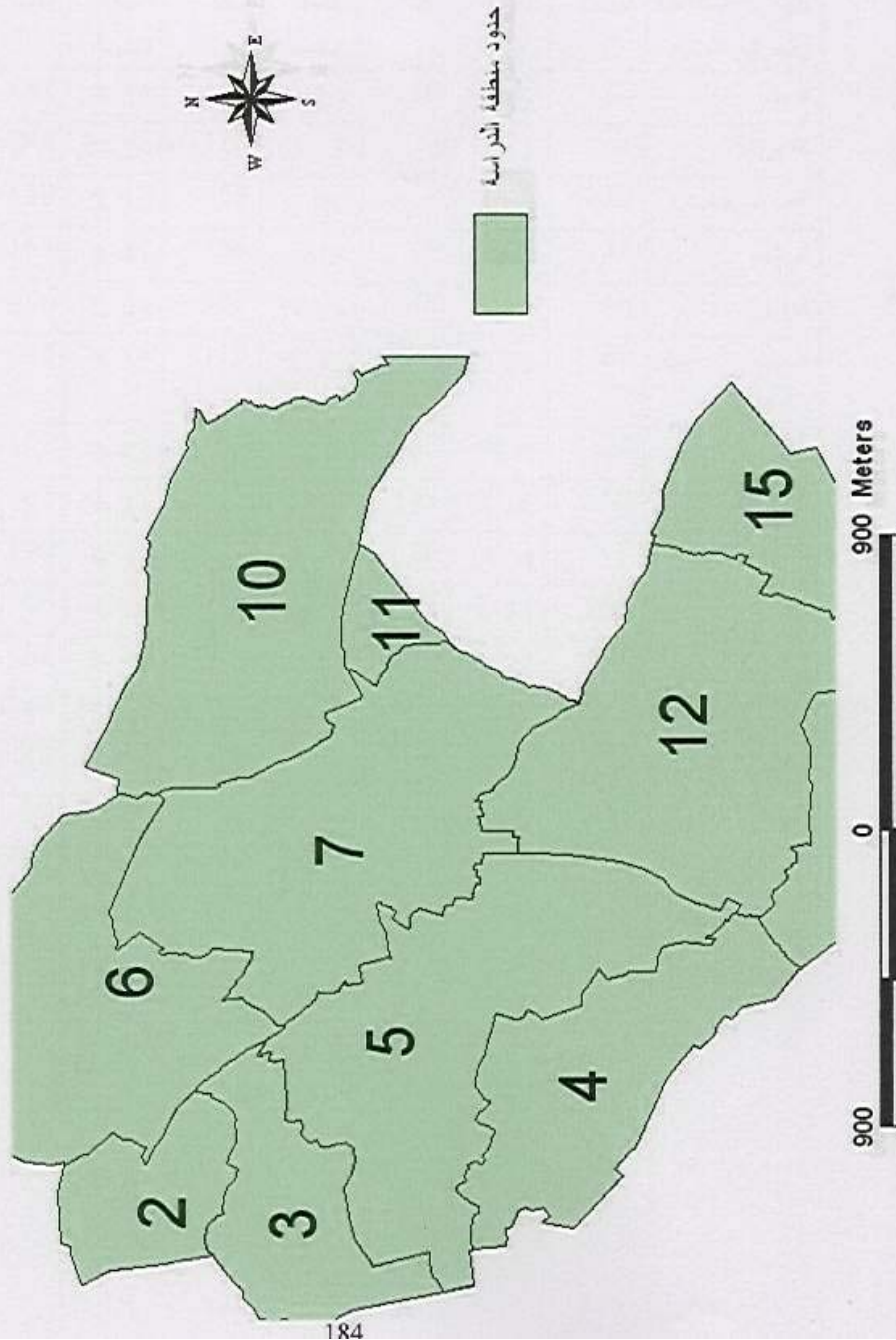
منحى رقم (1) : ارقام المجاورات السكنية حسب التقسيم المقترح



ملحق رقم (2) : أسماء المجاورات السكنية في بلدة طمون حسب التقسيم المقترح



ملحق رقم (3): ارقام الاحواض داخل منطقة الدراسة



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**An-Najah National University
Faculty of Graduate Studies**

**The Distribution and Planning of Public Services in Tammoun Town
(Tubas Governorate) Using the Geographic Information Systems (GIS)**

**Prepared By
Kifah Saleh Mohammed Abdallah**

**Supervised By
Dr. Ali Abdelhamid
Dr. Ahmed Rafat Goudieh**

**Submitted in Partial Fulfillment of the Requirements for the Degree of
Master of Science in Urban and Regional Planning, Faculty of
Graduate Studies, at An-Najah National University, Nablus, Palestine.**

2007

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Abstract

This study is concerned with the distribution and spatial planning of different public services in the Palestinian Town of Tammoun as an attempt to deal with the improper distribution of these services in the town, as it is the case in most of other Palestinian towns and localities, in addition to the absence of spatial planning regulations according to the related population size and density.

The major aim of this thesis is to analyze and evaluate the current situation of public services in Tammoun Town in terms of their distribution and suitability, and their relationships with population and physical density in each neighbourhood unit with reference to the planning regulations of these services. Moreover, it aimed at determining the priorities of physical development in the town during the coming period.

To achieve this aim, the concepts concerning urban planning, planning of public services as well as the concepts of Geographic Information Systems (GIS) and applications in planning were studied. The methodology of the thesis was mainly based on both the descriptive and analytical methods as well as on the results of the physical survey of population and public services in the town using the GIS and software of Statistical Package of

Social Sciences (SPSS).

The results of the study have indicated that Tammoun suffers from the lack of basic services like education, health and recreation. Also, it indicated that most of the public services were improperly distributed without considering the population densities and planning regulations.

The study has recommended the necessity of preparing a well defined plan for the distribution of public services in Tammoun according to the planning regulations and based on the current and future distribution, size, and density of the town's population.