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معوقات تطور تربية حجاج البيض (بيض الإستملاك) في منطقة ورقلة

2005.2004 \$ '-

```
$/
#! 4 7 8+ ($6 2( 9 8 0
                           2(0
     8 / <( 7 <(2 = :/4 +
  );
      @ 3 <$ (6 2 >
? <
     B< ( A ( 7 # < 7 <
       = # 7/#('0
     :/4
             C - 4 = $9%
  1
 <
   4 3$ ! 7/ D3 0 /( E
 1 $%" F 9 C $+ $ C - # "$
H $ H H; HG ) 08 #!7
                   B H7 +
  1 $ 5= #! $%" ( >!$ - 'B I -
       $
         $%" ( 9 'E '6 -
               !( 7/7 -
  1
    = 9
           B$# H$9 )
            17-16 ! )9% D%
       B# H5$+) #I %? J(
                B7 '#)
                      !) E -
/( 08+ ($6 2( 9 & '
                      2(0 'E #!
= (8 4
        $
                     $ $%"
#! F . (' #! 7"> 7 8 707 7 (!
                         B
```

1	2
2	?
7	2 =
	3' - \$1 2 (
9	" %0 \$I 4
9	# \$ 7 (40 - 1
10	(K L0-2
11	(7. -3
12	'5 , \$II 4
13	C #! 7 (-1
14	\mathbf{K} * (+ =(-1B1
17	
17	K A3 -2
19	2= #! 7 (-3
19	\$ * (-1.3
20	K * (-2.3
21	- \$III 4
21	3\$ -1
24	9 = -2
24	9%3" * '+ -3
24	9 (-4
24	# - 1 B 4
25	2 B 4
25	A - 3B4
25	n - 507

```
26
                                         & "E -5
26
                                             -6
26
                                      N ( 0-7
27
                                           ( -8
28
                                           $IV 4
28
                                           !; -1
28
                                           $ -2
28
                                          C ( -3
29
                                           = -4
29
                                         D3? -5
29
                                  D 3? 0 -1.5
29
                                   D3? A (-2.5
30
                                           /N( -6
31
                                           D -7
32
                                               -8
33
                                           =( -9
34
              6 "
                       7 2 6"
                                           $V 4
                    - $ '8 (
35
                                       9: '$I4
35
                                    #! N A
                                              - 1
35
                                               -2
37
                                        (
                                               -3
37
                                            ; -4
37
                                        $
                                           ; -5
40
                                      / $II 4
40
                                           2 = -1
40
                                          $( -1.1
                                     2=
```

```
40
                                52\$( = A3 -2.1)
41
                                         5 2$( -3.1
                                   #
43
                                            $III 4
43
                                             ( - 1
43
                                  #! (3$ 9 -2
                              2=
44
                                      C3$ J (-3
44
                                           E -1B3
44
                                  17 -= $\cdot$ -2.3
44
                                         . 2 -3.3
45
                                         3 E -4.3
45
                                             -5.3
45
                                         /! -6.3
46
                                          9 = -4
46
                                         9 (-5
47
                                         ( (-6
47
                                      2( = -1.6
47
                                    = $ = -2.6
47
                                         $ -1.2.6
47
                                       = -2.2.6
48
                                       !; -3.2BP
48
                                       C ( -4.2.6
48
                                      D3? -5.2.6
48
                                       /N( -6.2.6
49
                                        D -7.2.6
50
                                           -8.2.6
                                  $
50
                                           ( (! -7
                                      9%
51
                                             %' -8
```

52	; <= \$IV 4
52	(-1
52	= ='(-2
52	E Q -3
53	2 -4
53	-5
53	. (-6
54	3\$ "(-1B 6
54	D/N " (-2B6
56	D " (-3 B 6
56	N D " (-4 B 6
57	D " (-5 B 6
57	" (-6 B 6
57	* " (- 7 B 6
58	5 = E " (-8 B 6
58	? " (-7
60	* (? -8
60	0(K ' -1 B 8
63	@ * -2 B 8
64	9%3" A ' -3 B 8
64	# ? ' -9
64	\$ 3 "(-1 0
65	-11
66	%' -12
67	/
67	E 50 -1
67	; 50 -2

2(-1.2 \$ 9\$ (6 -3 " ? ? 1 <

0;	, I	1 <
15	C #! K * (+	01
16	7= R (8 K * (02
18	C #! K M% (03
19	6 #! D 3 \$ * (+	04
20	6 #! K * (+	05
22	(\$ 3\$ (06
31	K * /N(9 (\$	07
36	12000-1990- 9 N(= (9 % (08
42	2= #! K * # 7 9	09
45	/!	10
49	2 .	11
54	3\$. (12
55	(.	13
56	D/N " (14
56	D " (15
56	D " (16
57	D " (17
57	" (18
57	* " (19
58	5 =E " (20
58	*(S ? "(21
61	(K	22
63	К '	23
64	@ * "	24
64	9%3" '	25
65	4800 (C"	26

/ ;

Résumé

L'étude menée sur la conaissonce des contraintes de développement de l'élevage de poulet pondeuse dans la région du Ouargla. A permis de dégager 2 principaux contraintes a savoir :

- 1- L'élévation des charges du production : En effet l'élevage avicole dans la région du Ouargla est très payant ce la peut explique par :
- La période de l'élevage est très langue et par fois combines par l'élévation des prix des fourrage.
- Les conditions climatique de la région du Ouargla surtout les hautes température dans les période histivale qui exigent la refroidissement électrique.
- Les charges du transport.
- 2- La compétition et l'irrigulation des prix a la ventes les éleveur locale exposé de vant la compétition des producteurs d'autre région. Ce dernier n'ont pas les même problème d'élévation des charges.

La bisse de production est le résultats de mauvaise gestion technique et économique.

Mots clés: Poule pondeuse, élevage, gestion du production, contraintesB

Summary

The survey led on the conaissance of the constraints of development of the raising of chicken pondeuse in the region of the Ouargla. To permitted to clear 2 main constraints has know:

- 1 the elevation of the loads of the production: Indeed the poultry raising in the region of the Ouargla is very paying this can it explains by:
- The period of raising is a lot of language and by time schemes by the elevation of the prices of forages them.
- The conditions climatic of the region of the Ouargla especially the high temperature in the season histivale that requires the electric cooling.
- The loads of the transportation.
- 2 the competition and the irrigulation of the prices has the sales the breeder local exposed of vant the competition of the other region producers. This last doesn't have the same problem of elevation of the loads.

Encore it of production is the results of bad technical and economic management.

Key words: Hen pondeuse, raising, management of the production, constraints**B**



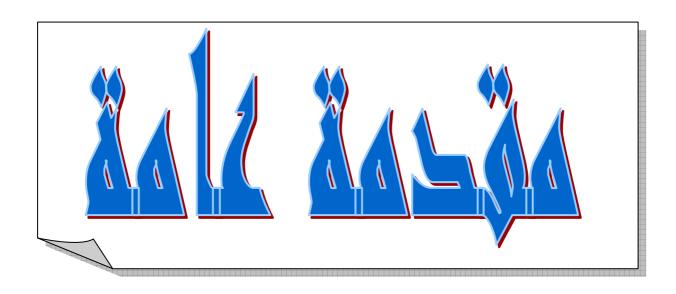
```
* ( =( 9 ! 4 T$ /4 7 . 7+
T$H 2= #!K
                 ) 4 7 0720 ! 8 9 '
  = J " 2= K * (((T$$ '5 +
8+!3+H.% E. @"(7 J(( $ * 2 (
\#(9)!(J=(...!\#!...\$U.9/2==
T$H2D0 #(2= 7A 8+!3+D (!@"(
                    B ( . (7 D E :/4 (
7 ' 2= # 706+*(? . (@"( L $ -2 9 -9' •
A 2 * (? . (@"( 7 7 6 7 / R 'E 5 = # ( A !
#! 7 ( 8 C" 6 / K 0 K" # ( H 2= #
                               B 2=
   L ((+@(+ (6 #2( (D (*(? K" >$%
                    B ( :/ = = " (
                                   ((
```

B9 H (H7 (HK * \$ /

2= #! N A 7 (\$01 <

' 1 2 < CII

0;	1	1 <
18	C #! (K	01
21	C #! (K	02
59	? " (03
62	(K ; # 8\$	04
65	(\$ F3 #	05



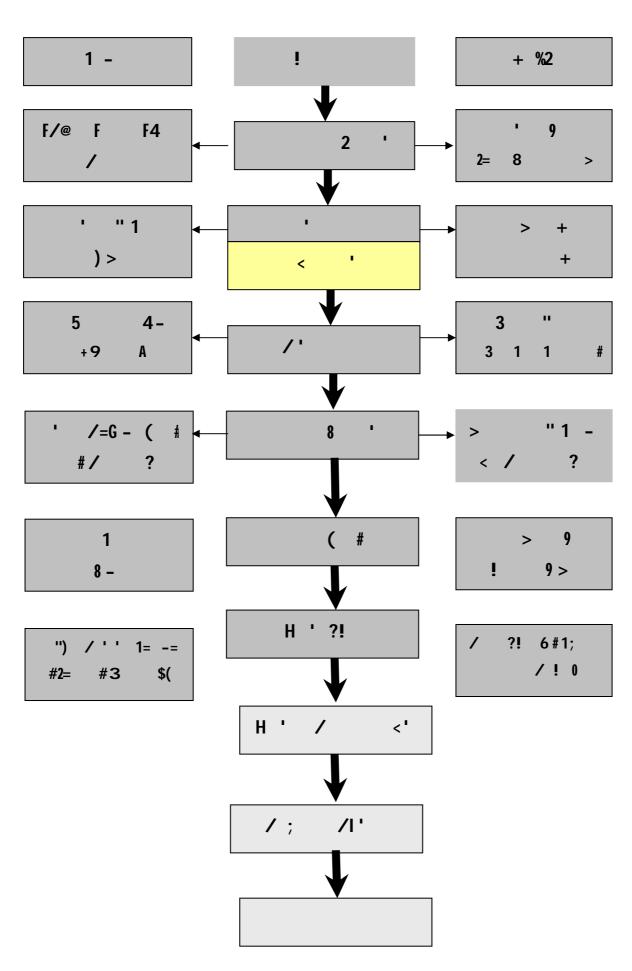
```
$ "
/ EK$E 8 ($ % ( # $ 7( (
                B \# = D 7 ? (\$
; $ 9 2( '+T$7 @=2 /4: / =( A
8+\# *(? 8 0 9; ' / \# = 6 F2(
#! M E (8+!3-BBB LE 2E $ 9 $
&'! H \$ 0 E ! (7 9 L0 = 69 \$ K \$ E
$ 9 @ "( 9 (2! 7 "; (9 2(
7 C>$; $ E 5 = 7 M/ K E = 3"
K E 7 $8 + !3 + H^*(? ( ; . > 7 : !(
            B9! 2 C 9$2(
# $ *(? @ =2 K 8+ C 9W
                        L 8
*(? A! W 7 ==' 0 = (5 = 7) 40:D = +
/ ' " K * " 7 (! # $
              B 3 9 \#! V > V = (...)
7 K *(+ W 7 #( 0 7 'I 4J "(
   2( 9 /4 #!; $ 9 2( '+5 =
7
    9 > 2 #! 7 H* (? =( . > ! (
/ /4 D X E /4 8 A 7 8+90
   B 2= #! K * (+ =(D . 2(#( 5C ! < W 7
 #( 7 . "'(8+RQ(9 (9$ (8+ (8+!3+
                         B7 < (
```

```
$ 5
/ # $ 7( &2 7 # (#( 7 7 C ((
9 #! 4! (J #( 7 7 B ", ,Y18 # $ 2
     #! 3: (9 7 < # = 07 " C/N
D
H ($ #( E E K $E 8 ($ < E 7 ?
B 3 :/4 ! 7 < W 7
9 + 7 : N % V 2 #! > # $ *(? 70
 ! \#!\ V\ (V\ 0>HO\ 6=='<\$(6')'' (\#')''''
 V' \#C/N 7 E' \$ @ = 2 /4 M \$ ( = 9 (
     B 4 # 2 ' #! 4 (#( " $ ' /
  # (# ( 4 (7 # $ * (? @ = <! K N /
\# ( / =N( + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C + C +
*(? @ =2 K 40D = +8+ 9W /4 #! <
7 LE 2E 9 $ "; (5 = 7 # $
((+5 = 7 M/ H# $ 7( !( W 7 #( 9 $
7 E $ ! ( #C/N 7 E 7 3 R ( A! 8+V 0. (
(A # $ *(? " 3 8 (6 /4 K / ((
 # ( J @ =2 8 ( & ' @ =2 8 *(? 8
                        ? = $ 9 ' 5!
 2 T $
  ; *(+ ( > #! / N(T $+A ( 7 ( 9 '
  & '(8+ 2(@=28 (67 2(6 "(' $
                                                  B: ( 7 A! *(? #!.;(
```

```
(&'0 7 7= J "( 5= L8
D + 9 9% ( 2( 7 A (7 $ ;
B2 = W L96\% 09 $ &' ! (9 (
7 7 / 7 ;( A (8+ 9W 2E ( #!
96% 7 ( ( 9 2(  ( 0 K 0
8 *(? 096% '8+!3+W(+;0 $
H OC( Y 8+90 9 > 2 \#! 7  W 0
/L07 2E:/49 $ ( T$H/N( :/47 7
:/4 70 8 + ! 3 + H 4 0 @ "( . % E & 2 / # & 2 (
2 Z "
! 2( 8+!3+H*(? #!&2 7
H4 ( (:/49 = ( !(5 = D(? 26 (&'
Q 7 $ (( 2= #! (? 2E (70 M/
              B7= 7 R 'E 5= 2
7 40 3 9 #!R'E#4JE (9! (7
R'E 9 $ 2; ( ( J 7 7 . =
A (8+90 9 > 2 \# 17 /4 \# 19 (90 0 M / 19 )
 $ J 9!; 077 < H7W /4#!A
/ 5C #4 $ # ( 2( K Z J E
                B (:/4#!7 <
#! (( 40 9! R 'E #4 ? (&' !
 8 9W!H2= U W(#!#($5=
D $ # %N( (#( : !( 5= #!
  9 2 0 K"
                 9 > 2 #! 7
3
. " 8+!3+ 7 8+? Q J ( 4 J
A / #C # = E = ( J # < # /
```

```
2(6 (:/477 " 8+!3+C 2 = E
#! ' (740 &2 / 6E ( 077 #!
    (:/4A (# ( ? # 7 4 ( R '09 =
7 9
7:!(
    ( 9/ " 7 ( ((
    L8 M/HR'E9 $ 2
7( !(#! '( (&' !0*(? T$
                         B# $
D + 5 = 7 7 ( ( 0 7 "( J 70
9 2( / 9 K $ 7 A ( /4 #! 9 ;(
7 K D3 $ 7 *(+8 $ 07 (:/4
     B (:/4 4(8+90 9! (:/470<>$%
D . 2( #( 5C ! 8+:/4 ( #! 5 =( ; 8
              \ 2= #! K * ( =(
    )# !;( (C 07 ( 9 3 " A3 2 M/
                       $E01D ! 0
 ! (7 6 M / # 2 #( E 40 7 /N( ((
 . % E A 8 ($(62=707 \nd 7 \nd N(\text{ % . % E}
# ( /LE 7 (( #( 5= 7 . % E 7 7
6 ! H. % E A <! ( / 2= 7 A
                       V > "(
  J = #! 2 #! . % E 7 7 ' 8 ($(
 # 8+ (#( . % E :/4 2 . (@ "( 8+ Q ; 0 0 0
 ( C>$8+7 7 * 2 "(8+!3+HV "( "(
#!
                 B ' 2 C #! 2=
```

```
/ H. %(? 7 <>"$ * ( 7 '( ( . L D " (8+!3+
2= #! $ ( / . !#! 'D " (@"(+
  "( *(?. (70K (" # ( HC 9 !(J=(
  B 2= #! # < (#( 5C 7 7 1BBBD
                        H 2 H. -
                          $E02D ! 0
K * (7+ J = K 7 8+A3'5 70.
D / . 2 J *(? . (#!@"(+. (2= #!
8+!3+.% E A (( #( R 'E 5= #! 7 2
*(? 7X! 2 #! H3"' *(? . (7X!M/HD (!
              . #$ *(? A ! #!'
            B V
7 < (#( 5C 7 7 //( E #! ! 70 ( M/
   B3" W*(5 ( "( . (77 7/7$
                          $E03D ! 0
/ 08 ( $ = = '(7 6 (+ 0 ?
\#(50 7 < 0 \text{ K}) = (A H 2) \#! 
  % 6 7 ;( ' 4 2= #! K * ( =( D . 2(
D 7 2 R'09 = 7 !V $\%" 6 7
     B7 (9 2(! 7 C= 07 ! T$H (0)
                           $E04D ! 0
(' 70 K (" B8 2 #( 9 = 7 7 % (' (
                       B5C 7 7 %
                           $E05D ! 0
  7 7 < B. ( =N( 0 ! (7 6 ( = R 2 ) )
              BC!9/K 8 7 (50
```



```
9 3 " 5 0#" 8($ ? #! $ = CE8 S
H@ 3 ? (J 9 = ' #!; ((#( 2 = 8 W
)#! ; ( (+#N C . 409/9 =' :/47 (T$
9 / 9% J( 8 @%=? ; ( #( $ 2 ' C1
9 H<sub>2</sub>= -< A 7 < (@3 ! 07 2
                           A1BBB +
A 2 ( 2= (' =' :/4 #! $ ' C2
  2= ' . (8+5 = (8+!3? '9
732(8+!3+ '( M/ (6 = (2
           C>$ 2= $!/'E 2=
        B
   ( V(M/9 ('2$/' C3
('
   (' 9 A (8+!3+T$ 7 9
9
   A 2= #! 3 $ 9 #! #4 #( C>$ @ ( 7
  A 07 7 #! '((#( 2; #4 $ 'C4
9
  ( H# . ( #4 OC( $(#! ( 0 C>$ $
   *(? (92(... > / (#( $ ;(
                        B] + BBB. (
  7 K #! #2 =( 4 /47 $ ( #C5
7
 A # 7 J 2( <%' 7 . 52$( 2; 7 ( <!
9
              B4 #( ;( $ < $ !
            9 7 $H ' ?! C6
#!! 9
     A
> / ? 9 A 2 ((9 = $( 7
=(D . 2(#(5C $(8+ (V + (9
                         B @ = 2 /4
OC( D 3 8 %'( ( D [ 7 #4 $/; /J' C7
```

\$1

الجزء الأول عبد الدعارية الدعارية

```
" %0 $I 4
                $', %C1
#4 E EK $E 8 ($ 7( !H /
7( 7 EK $E J ( H 0F ( #(#(
          B 7( 7 J V ( (70# $
A (7 6 < ($ =N(V 0V3 $ 23 A ( A =(
. (#4 比($?! R'0 0 K $0
       B = #! ! (70 6 /4 E E K $E
/+# = #" 6 < H $ 8 >!$ L 7 ( #"
       BV E EK $E 8 ($ 6 < 0
" " " V V K $ 4 ($
9 (" L #!H7 ? ($ #( 9 (" 8 ($ < 0 ! 3+
8! 349/ $ 9 ( 70!3+HB_{12}7 (!<! B
7 = 2! % 79 3 $ 7( 7 % 97 # $ 3 ;
              1 1998 # 3' B -BF 2 7 (
```

a

```
$ 7 :) C2
" ( W 0#!:N(8+#
                        ( 07
         B (? (M/#! * J 3 ! < J)
8+* J 3 2(T$ < 07 8 ( / K N $(J
                              )#
                     BK * (? * -0
                     B$ *(?* -J
                BV $ K *(?* -*
                          )K * $\\\ )
70 L $ =
            * 9" 7 K *(+ " 7+
    *(? 2 K 7 (+; 9 ( V 0M 4
K
7 @ 0 . /4 3 ; 0 0 3 1300-8+K * @ 0
                       ) 40 K *
               BK E 7 -1
                   B
                    -2
                   B E -3
. ('(M/ 7 D3 /K *(X 2(K * @ 07+
 /K *(X 2(#( $ * @ 0 0 K N C; * @ 07
 K * 9 T$ ( K #! V3 0 < . ('(
* 01V 3 80-60 - $ * R ((6) V 3 300
              B1 V 3 170 - 120 - V K $
                          ) $ * $K'8
             . / ( * @ 0 A ((
M/V
V3 0 (( HK *
            7 <( 2 07 @ "( + >$%
            8+< ( 4 @ (
      2; 7
                    B 3$ L $ 2;
              )# . / A ( * @ 0 407
```

```
B7
                           - 1
                        B 4 -2
                       B7 % -3
                       BO
                          -4
                       B__ -5
                )K N #C; * . $188
     )@ E:/4 407 * 7 @ 0 . /4 3
                       B %
                          - 1
                       B9
                           -2
                      B 4
                          -3
                       B -4
          ) ( ( 9 " @ E :/4 A M ( (
   B 3 170 - 120 8 + T $ = ( K 7 *(? -1
= T \$ 7 ((< \$ 7W K *(+ (! D (+
D( < $ K" < $ N ( / K *
      1 1985 $ $ # 7 $ - BK * (+ (!
                   + C3
 J $ 9( D 0 $(A
               70 M/HK 0 $
V "3 9/ 0F/9%$ 9%3! 9 2
   7( 780 8 ($( C/L 9/ 8+
          B7 9 ( ; C 3 R 'E
  2 ($( #( C/N 2 ! E 3 $ !
2
                       /LE
7 7 ( <! / $ D/N 4J$
```

```
K " /'0 7 7 3 #! 9 7 09 ("
BR 'E $ 2 3 <0 C/L <!7 $
               K $ 8 $ 4 7 (7. 70 /
   T$H 3 N 9%3" * (+8+!3+H R '0 C/L
 9 < ($ / H9 E 7 8 ($(7 9%3! 70
                      B
 #!#( 9( W ((7 9%3!70 M/
9%3" 2 7 $%" . = 7 J = 7%! / H9 ( :/4 D/N
            LE 2E R 'E 9 $
          BBB
              '5 , $II 4
     7 * (+/'0 = ( 7 9 = ' :/4
2
E /48 $ 0K $ #! D * (? $ 2 <! C=
A 4 /LE *(+ 7 (F *(? $ J(((
 5 ( = *(+M/ 173$( ; ] "( 0 ( -K)
                BV 2( = 8)
7 =( .3(#! N((#( . 0K !
             4 ( 961
 8 $ :/4 #! * (? # (
3 7'(2(8 = K F/9"' "(S
#! H7 A (M/ J ( . ( F/ 9 $
V (0\% / W < \$ = 8 * (? # (6 \$ : / 4))
#( @ #! H5 ( K 2 9 #! 0 # = VC
```

```
\$0 - B5 ( H9 ( 73\$(H) "( HK * (+9 = H.\% E (
                           1 1973 0
                        $7 ?! C1
. (7X! /48 $ K M/ !=2! $ K C=
      N = (T \$8 + 0 < ( + K)
C (? 8
#! 3 " 74 9 ( 7 (( H #!
                         N(T $ # (
  (5 = 7 \text{ K} 8 + 2((; 7 (67 4; \text{W}) 9)))
T \$ # = K ( \$ #! K 7 3 \$ " " "
 (9 AE %' #! K 8 0#! F 2 7 <= 2(+ (
D " 8 K J (K 7 D 2
 2 " N #!; 0 0 7 3 T ( 2 L0#;
 '"( 3 F ( D 7 K J ( ":/4 %' $ 0
(T$V ( (7 27 ( % 7 A ( (
"N((T$ %'3 (K(2 L08 (
K A3 ( H ( 7 $(#(#4 7 7 2=
A3 ( 3 7X! H C 9 5 = 7 0# < ( 2 < (
              B" 3 9/3 3 (+
T ( > T $ V$ * > #!K (T $
    BM/ #; & (T$ K #! 24 # $ 3
                       1 1985 7 4 7 -
                   $ 9, C2
  2 #( 2 9 = 7 7 C #! 7 ( ((
9 ($+ # 6 *(? 7 T$ H 2(5 = . E #! 7
D3 $ * (+#! =N( %2(? / H C E
  * ' 7 C/N :/4 ( 8+ 9W M%(? K /
D + 7 1977 8($ 1974 7 VD ( 9 ! M/ HV
R(Y 8+90 9! 7 ('7
```

```
!; C \#!7 (90 1984 / H*(? 7 J = 1984))
7 (:/ (0#( 4Z (3 7 982 K *(+
 (+A) /4 #! ; (S V 2( V ( 7 $\%" A (5 =
#! 9 > #( 8 JN( / =( E ; $ 9 2(
9 2( :/4 > A ' 0 $ 0 2( 9 D 3 9
   +7 (9! . = 7 2 9 "$(
7 #( Z ( /4 #! ;( S 7 L 8($ 7
BK D3 $ 8 ( J = ( 7 ( 70
  BJ ! 7= 5= V V (+7 (9!
                             M/
7 (6 C #! 7 (A (? L 7
M/8 H#(/ D"(?8 *(? (2 T $ HR 'E
        B ( # ( * (? #! KC! 6 < 0
(6 < 08 + ? (T$H 4 J E #!;$
M 4 7 7+ H ( 9 0] "( K * ' 8 (( C
!(8+!3+ :/4A (= 9 0 .= 7 > $ =
%0 9 (!7 C/N 9!3? ! .%EA ( E
                    B 0 9 4
                    $7 '# C1.2
"" 40 "(' % 0 % 1 7 4 % 12 7 ( 7 % 13 8 3
7 8 3 ($( $ 9 N
7( C7("%L 26 A,B,O,E,K); 9 ("
9" (0 E E K $E 8 < C ($6 9 ( 7 K
#! 3 K $E '(V [V3 $ 18 7 ; 07 I 8 ($ <!
  " #! 74 ( 3 9 ($ 7 ? /N(
D 8+!3X =2!7( 8 V 2( ($ K 0 K #!:
(( 74 7 8 J ($ 6 6 7 $E K #! 8 M/
```

B C #! K * (+7 \$E01D < 1

E10 ³ D ' 7	E10 ³ D "	/ '-
278000 2539000 2068000 2100000 3200000 2640000 1705000 1900000 2200000 2400000	E10 ³ D "	1990 1991 1992 1993 1994 1995 1996 1997 1998 1999
2020000 216000 322000 3305844	8.400 9.000 12000 12.025	2000 2001 2002 2003

M.A 2004 \$;

s------

7=96R(8K*(7\$E020<1)

E ³ 10D 7 "	=	E ³ 10D 7 "	=
208	=	00	0
87		200	
588	N(32	= LE
73		425	# 0
758		975	(
00		354	
367	7 4	302	
13	K	11	
00	+	684	
902	0 *	419	
507		00	9 (
43	. =	78	(
38	. (40	7 (
55	9 (36	9 (
202		493	(
72	1	223	С
36	40 5	16	п
449	(16	
440		957	. =
104	! 7	49	
09		567	
24	9 (7	381	
25	L	175	
353	7 L	187	
12025			

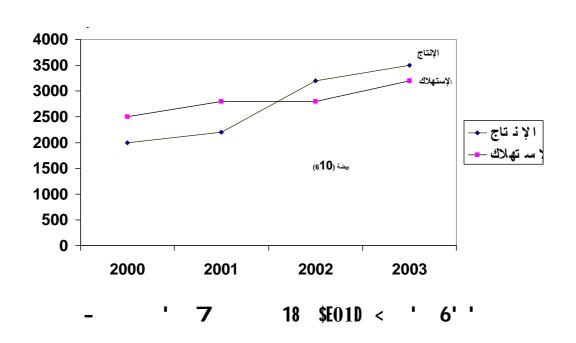
(M.A 2004) \$;

```
(( C #! 7 ( 70 > $\% 102-
T$ (
       (9"(/4 ("(9
                          7= . ('
.61 A A 7 2 9 6 #! K * ( ( >$%
* (70 > $% T $ ' ] "( K 9 ( *(+
K * (! (96 M 4 J 96 3" K
V 2 . (R'096 + H H9 (H 0)96 2003
 $ 9 @"(6 (/4 HK H L 9 6 V>$
                          B. ! #!
                      $7 L@ - C2.2
 EK $E 7( N $ 9 ( 407 K (
0 $ 154 # $ 7 ? (7(3 70 T$H/N(#!"
7( 7 < ($ 7 %12.2 $ <( ($ 7 %5 # $
           B E K $E 7 < ( ($ 7 %35-17 # $
   (9 = 9 \$ 5 = 0 3\$(#! ' K 70)
(
    K 8 J = 70 M/R'E $ 9 ( A 2 <
  #! ' <08+!3+H5 =E 3$( 07 9 E %'
M/. ! A 2 D( #! (M% (6 70 H7= C/N
       BJ = J . !#!K" K 70
9 ( A 2 K M% ( @"( #! '(#( J E 7 7
                      )#4 R 'E $
                 B $ 2 3 # = -
                   B 7 ( 8 ($ -
               BM ( (6 $ 7 . L-
&2 $ 0 @ "(
               C "
                     C
                          2 >
  . K M% ( > $% X! H C/N 9 #! # $ 7 (
                      B 3 9 #! (
```

A 97 L@ -, E03D < 1

-	E ³ 10D	-	7	E ³ 10D	•	7	/ '-
5.5			2435000			2020000	2000
6			2871000			2160000	2001
7			2760000			3220000	2002
7			3101000			3305844	2003

E2004 AMA D\$;



ш	E/	D / "	/ '-
0		0	1997
70000		70000	1998
73600		73600	1999
72000		780000	2000
77400		92200	2001
211447		238500	2002
146185		161300	2003
219530		254400	2004

A2004 F + A A ;

\$7 C2.3

9 > T\$H;\$!;K* (((H\$* 2)
. = 7 2 (6 #! 90 1984 7
. (@"(J 7 2 #! 90 V2(V 2= #! 7 A (
((! = 12 HD " HD/N " H9 = " - *(?
\$ (*(? 2 T\$1. !- \$ E = 8+ 0
B9 2" \$#! K E (
2 T\$\$ (? @(2= #! K * # 2 M/
(? #((9 >(" K A3 *
D 32 V 14-12 7 (? (H _ @
K \$ 7 "(\$ <2 ((" :/4

B 6 #! K * (+7 \$E05D < 1

E! DE ³ 10D '5	н	/ '-
912	4800	1997
912	4800	1998
456	2400	1999
484	2600	2000
913	5000	2001
854	4800	2002
0	0	2003
0	0	2004

2004 F+A A \$;

1000 900 800 700 600 500 400 300 200 100 0 -1997 1998 1999 2000 2001 2002 2003 2004 < = 97 '#18 E02D < '6'' - \$III 4 \$! C1 9 2(7 >!\$ 4 K * 9 D 7 K N 7+ 0K D *(?77 08 \$ (\$ C = +\$ -B **1**1956 (#!; \$ 5 = (((8 = 8 7 = 9 =(3\$8 $! \qquad (\qquad . \qquad > C (M/$ \$(#2! (6 J 3\$D #!@ E 9 7 (' 70 # 8 7 7 = 3\$ 9" 7 6 3\$D \$(" 0) (= : . (/" ! 3 E 7 (70J B C BC = 7a BR '0 (C3\$7 a 0#! 3\$ 3(8 (0 B \$ a

B (" 9 \$ A

B4L = E : . /"

a

a

```
B (5 E 7 a $E ! D ' 0 N $E ! D ' 0 N ( . #! >($ (" 9 #! C ( 7E V > < X! M / # ' #C (8 (? J < X! D 7 ($ 9 0 C 0 A V ( : (7 70 J 11977 % # % -B 7 ! "2 $ 2 N #! ' 7 ( C ( J $ 7 ( >$ 0 ) # ( - 3 ) E06D < 1
```

E#PPD 2	-	3 ')
3 b 6.50 b 40.20	² 262.00	2400
3 b 12 b 40.20	² 482.4	4800
3 b 13.36 b 54.15	² 723.5	10240

ITPE 1994\$;

```
0 \$E J = 0Y" J = 7 D #! (
  V ( V # 7 Y " /4 #! 7 OY! *
9 ! 052 0< (6 . > ( # 0 7
V > .2 0 3 ; 7 7 ( ! ' 9 "= F (
70 J ! . 2 5 = 7 ' ( $ 7 % 70
                               E < 3 (
7 ( !3XM/ 7 7 R 0.2
J (#( 5= #! & ' 8 ($ . 2 H. 2 * 7 <
B < ! % (A = E : . F 7 M / < !
                            11977 % # % -
                               $1
                                  N
7 &2 $ = K 7 $( 3$ #!
                         3
      ( 7 7 ( H ' $
5 0 0
                              N( ;W
                    1Lunes de verre- B*
       K * (+8+ 0(#( 407
1
      ' $ 9 J 2( 70 VD( V' 2( $
  >"$ M / D( D;0 C/N 7 9 . +8+
                                  0(
   $7(7070J!.!D;0M/
   *(6 C% 5' ( (6 M/ * ' #! <
Κ
   7 \ 4 \ L = E \ ' \ 8 > ! \ M /
                              HV V
                             $ - BR 'E
                      1 1956
                              $9 ' N
<sup>2</sup> 1 /! A ; ( 1.50 0 1.20 @ "( + 8 /! 7 (
4 L = ' F 6 M M /! 9 (! #! #=N ^2 10 #!)
. > ( 5N F(" V ! $( /! :/47 (
                        $( 7 (J E
                  B
```

```
$/@! 0 #C2
* (+96% (7 7 ; 3" $7 2 6 " 9 C1C2
2 " 5!
              J ( 2 5 K $05! K
         (
; 5 K  = "( 2= #! 2 9 /+ V '
F = \# = N H 100 - 50 K E 7 A"( 3 E F= .
                              K $J
 ! ((JN #! K $ ' 8+ = 2 A M 5
    B K \$ 8 + 2 : 7 " = 2 8 (\$ # .
     ) V O O V 7 9%3" * '+$Q 0<2 9 C2C2
 2 6 #! 15 - 10 5 = "05 'A3 $& 5
                             BM / @
5 = 7 * ' ; H 50 - 40 E 7 5 05 ' ( $2 5
2(7) = 0 (> M49 = K #! 09$)
  8 + 9\%3" J$ 9$ 'E 7$ 7 = ( 9\%3"
! = (9 = 7 R'0@0M470 5 C 70 =
 = & "0 " 0 M $ ( M _{-} 2 0 M ( % 7 = 5 ! 9%3"
      1 1977 % #% - B< (& ' C #! < 2 5 < $
                            $/ C3
      09 ( (( 2 # M 4 $ < - C1C3
 E #
* 07" * 7 # = K $ 7 4
                               % ((
   = #! . (' =( 9 E $( / #=
 K
               B1 E #! - R 'E # # 7 5
   $ $ 7 82 7 3@ 022 7 ID (+* *($
 = #! A 82 R ( A! 70 J 7 ($ 7 1.5 0
= 3 M/ HC = > 7 = 280R ( #! < 7 (70 = 8)
2.5 - 2 # $ 82 K $ ' : 5 7 70 08
                                  B=2!
```

```
@ J \$ 7 ( J ' * 7 = (0 \# 4 \$ + C2C3)
   #"((1 $#! = 7(K * . #"! =
              ). 7 @ 0 M 4 H 30
                   B = ( .
                    B7 ' 9/. •
                       B 0. •
 $ #! W * ( $?; C3C3
9
     = = /"( #" ( 6 2! ( E . (/N( #! ( (
= 2 <! 7'(1 - 2 7' & '! HC
(( 2 "(6 8($ 12 - 10 7 7 '( (6 7 8
7 @ # = +7 ' 7 #4 7= 8 - 5 7 #!
7 '8+ = "J\$ = ' < M(\% 0*)
#! * '1 - J (7 R 'E . & ' "
 7 V 7 70J * ' #! < ( ! $ #! OH D E
     E $ ' < ( 3!E 7 < X! 6+ H $
7
" \#C J$ C 2 = ' 9 N( 7 V
8\ 08 + " A! ( #( . 29 ( #C4 = 29 = 
                    B'3J0
                         $/ C4
    3 & "E 7 04 - 3 7 7 # 47 a
A (7 7 708 (A3 M 7 & "E 7 7"
H9 5-4 &" !; H = 7.9 (*' K
   0#07' = Z(' &"EJ 8.
        B 10 C = & '( = = 8 2(
       8 + #4 ' #! # (a
  ( C
H C = = N3 : = (1nipples-9 $ 8 0 & "E
* ' D ( T $ 1 - * ' C 7 ( = 30
```

```
V O O V A &"2 * ' $ K $ # ( =
7 7 9%3" * '+ > H = = 8 J M $( = =
8 ; = & "0 " M _ 2 0 M ( % 7 = 5!9%3")
                 1 1977 % # % - B * "
                       $Q 0<= C5
8+9%3" =2 T$ $8 (; M 7 & "7
5 #( 8+ C &"2 3 0 V 0V A ( "E
& "6 70 T $ 40 b 40 b 40 7 (: 0 & "2 V [ 0 V A K
#! \$= \&"E d = @J\$"(' \$ R ( #!7 (
      B2 & "OH & "E H5 = 9/&" H$
                       11977 % # % -
A V[ ! > 7 T $ 102400 9 = H2400 9 =
                    1 ITPE1994 -BK
                       $M C6
D J$ ( 0 A! ( #(
          8 (("29#!(
  - >$ ' 9 (T $(60 J :/4 >$ 7
         ( 3" 1 , 1000-2000 7 (( (
 ( 7
                        B
                         $
9! 8+D A! 7 (=N3 $ 7 (70 J
      >$ '
$
            $1 R ) C7
   8:
  N(J = 7 \$ 9 @ "(
J$
  8+ >$ ' $ (8($ * '8+7' D
```

```
4 '[ > ( H. ((! 7 (A=2(H=
 B/4 ( A=2 ; %; 5C 107 R 8 ( = 2 >
                     $ C8
 #! VD(V') = (7 * (+ V * F))
' ' 5= #! ' .
                    $ V > C>$
V ; (; 0)/4 < " = 7;
JN( #C/N $( M/ $ (? 28 V
4 ( ( J C ( C>$ ' $ 8
%'7'#(CE'J(2977
9 7 9$ "09 :/45! >$ 8+D
(D 9 = 29 (#4 "(" = 9/ 00M(%
>$ ' $ 9 >"' ( 7 H >$ 8+ ' 7
! #( 2= 9 2= . "
                   ( <sup>0</sup> 12-10 # $ 8+
K''' # ( = < (8 D 9 . " C>$
T \$ 2 = \$ \#! 7 \$ 08 + \$
 B\% 80 = 9 /+ 7 \$ 08+ D" 7 2
  2 = # ( (E $( 9 / C 9 M 4
               11992 -B >$ ' $
```

```
$
                       $IV 4
         )= $ = ($ 7 6 ( 7
0H1<sup>2</sup>-A (#!9 57 KE8 (#!$98 C1
            B&"2 #! 9 47 (& "E #! (
(! #"! ($ 7 6 0 ($( #( 407 ( $ C2
-15 ; F ( $ 7 K" 70 3" *(?
        $ 7E V > ^{0} 24 7 (60 8 18
* (+ 8 ;0(
                  B3 $8 :0( K
   1ITPE 1994- 1K * (+ #! &2 e $-
Y1-0.5 7 7 &2 < X f 27 7 $ 9 /+
7 2 8 ;Q ! L $ 7 ( M/ #!
 7 ('$71 W (('$
 BM $( 6 7 $ 7E
                       $ C3
 ( 7 E ' 8 (T$ (
                       3 ( (
 L 	 J 	 3 	 9 	 N = / D 	 * ' M / D
   #! , 3 10-7 D( #! D 7 , 3 6-4 #$ 7 7
 В.
!(7 \%! 9 = 8 (\$(\#(\#! = (V))))
   D" 9 / 2N #! 6+ >( " D 7 :/4
(
B >(
70 J < X! O(D A!
   9 / 19 = 7  0 9 (7 (7 8)
b . 2 #! ( 3" < 10000 - 7 ; 0 C ( #! (
 (7 ! D" = ( 9 ( /+ 8(  7 7 )
8
7 V C 9 ( < ( C 4 J 0 J 708 7
```

```
68(\$\#C) ( 7;0 (6/'07J 9 =
#! = 7 05" J :/4. ((
8($ #C ( @ =2 $ #! ( 9 $(! 3" / "2
    11977 % # % - B . ( 0 ( @ =2 ;07 . "'(
                           $ C4
    (\%70-607) (C>\$\#!4!(J) = 7+
# $ 0 ,D ^3 6.5 "(H 2-1.57 #( 3
   7 V(/ : "( @ #4 :/4 #! <sup>3</sup> 150
                               ) (
     B C > $ 7  " = 7 \% 40 # $ 2 D  " -1
= 100 \, 7 + \, C = 7 \, = 7 \, \% \, 60 \, 2 \, 5 \, = -2
                 BD (15 24#! "K
K E R A g 2 g ( C > $ #! = +7
D( ! #! V  ' C>$ #! = @"( 70  "" = "")
         1<sub>1982</sub> 2 % -B< $ 7 C = > "($ 2
                          $ (! 5 C5
                      $(!5 H ' C1.5
#!V V D3? J ( D3? #! $( # ' D3
Q!# Y $ / # C E V > (!
K 0( 7 \#! K A3 8 = A! 8+c=' D3? 0
J M/K *(+ 8 ; W < <2 (J $ N
                        BD3S0 $(
                      $ (! 5 ? C2.5
A #! > ( D 3? A (7 70 J $7 2 6" "" 9 •
#! 3-2 4 D3+ 3 E 7 A ( 8+ T$ D$0
```

```
= R (7 2.5-2) @"(7 7 J *(? (!
   7 70 A ( 3! '[ 7 ! $( J
   . >(J (04 '[ $ 7 K E 7 2 8
F
                 BD 3 8 N ;Q 6 8($
          R(8+7J$9•
= 3-2 = #!
# ' D #! 0. 8 D 3 J (7 70# = D 3 7)
VC < (( = 7) M M / V V ( #' D 82 = 7)
BBB 0 8 (\$( = 7EV > D3 * ' 8+
9 = 7 E 7M . 2 7 8 (D3? F 7EV >
K #! M/7 O( " E 7; 0 D 3
 J (4R ((60J 7$ 7! E#!
   B = \$ #! = 8 ; 0 < E 5 \$ M (
                            $ R C6
0(8 + C/N)
        $( K (($7 > @"
4 K * 2 K 4 C/N 2 #! 8 0 (; 0
2 :/4 #! # M / * = M% ( % < O( K @ / *
$ $ 7 L 9" K 7 *(+8 E % 9"
7 - 2 \quad 7 \quad (+ \quad J \quad \$C = M / \quad " \quad 7 \quad 2 M
        11973 0 $0-BK 7 8 ;W #! 1 C/N 2 T$
D/N @ * (+8 (2 = 8 ; 0( #( 40.7) ) ) )
M/ 8 4 (#( 3 8 <C ($+R 2 /
     8 C ($+ A 92" * 2 7 (70 3 7
T$9 (" 9 4 7( C/N 9 7
#! 4 ! (J / = $ K 7 (#! '(9 :/470
V 2( 7 7 70 6 #; *(+ #= (8($ 2 / D/N
                        B 2.3 – 2.1 # $
```

K * /N(9 (\$+\$E07D < 1

340 – 320	%2(+ =
, Y 18-16-5	' 7(
, A 850-750	7
, A 400-350	7
, Y 4.1 – 3.8	

```
ITPE 1994 $ ;9! 7 %
```

```
9! 7 % 65 ; ( 0 (? $ 7 /N( 407 (
% 35 ; ( R 'E 9! 707$ #! 7 * (+A #!
; 0 O( . D/N 70 < ! M 6 7 J $ :/4 . ('(
!;0 ;0 /N( #! (?70/48 R'E9
7 M/ 7 *(+ #! C' EJ$8 V! (
<( 4 0 V! ( /N( 70 ; $ ( . > 9$( V ' "
                                $
# < (#( $#! ( 8 ( V 9$ 0 +
                           E 1973 O $0 D
                             $( C7
7 ( D 40 7 2 7 7 7 * /N(#! D 40
     * ($( /N(
 (
              40 (!* D/L#!# 0 <
                 )(E J Z M/ <
                  BD/N 348 ( -1
                  BK 7 (8 ( -2
              $J = ( . = (M/ -3))
             B
               7 A=2( 70 (9;
        ( /+ K
8
                B3 9 ($ #;;7 ( %
```

```
7 ( $ ( ! $ 0 #! V ' *
                            D
*($(M/ $ c! 7 \%3!
                       $ 3
     / (46
            J M/HC
A (
                           $
                               8+
7 ( "> # E #! D X M/ %
                        (8 *
C = 7 D A /+ K E #! ( 4 " K ((68($ "(
\% 70 - 60 8 ($ C= V 2(. ( K * (+7X) 48
                             B: 7
     = 5 = 7  J 5 = 7 : 8 $ C=
    : "( 5 5 = 7 : " < 0 2 #!
#!
                    1 1981 0 - B 3
                          $ < C8
   3!E 7 < 1 *% ! (67 K 0 > 7E V >
               ) ( = @ (X K E :/47
  7 J 7 7 V$ V $ #! 8 7 J •
8
K * J $ * (7 /$ %; ! BBB=2! $ K N *
                       B "#!
5 " 608 2($ 9/ = $
                      7 70J •
    B F/ ( > @ (+ 3" BBBA 047 #!)
   ( EV > ( 8+ = '7 /$ •
            B 2 # E A = 2 7 6 K 0
  ; % N 3 = 7 & '( F •
VC\ V\ 82(\ 0\ T\ 3\ =\ F\ /\ 8\ E\ 4\ C>
&'(8 (\$ N = K ! (/+ H R
     B 6 ($8 ( J 7 EV>F/V!
       BF / 8+
                   8+ = 7 /$ •
```

```
8;(R'07) = &"0'V(VA)
" ( M/ 4 = (5 # I F / 7 & "E M / 7
                    BF /
H % (6 $& '( H 7
                    • %
== /$0 & '(
           * ' % * ' /$
            B O D = L M /
                       7
B = (V ' 8 + C 0 ' V A
11976 % # % -BM 9 $(! 8 M J (
                        $+ 3'
)J = (( :/4 A 0)
         B9\%3" * '+ /4 = 3 E = a
              B& "E F 8 N +a
              =N3 D & "E >$ La
            В
                       $ C9
 /4 9 ( M/ $ =( =' 7 6 . >(
                     ) 8 D 32
                7 9 ( =( •
        BD 7 7 ( $
 1 ITPE1994 - B1= ( ]3 - ; 5$ " >$ =( •
```

```
/ 9 7 2 6" , ' $V 4
  < ($ 70 ( 2 8+9 = #! 8 / C= *($ •
       BK E 8 8 (\#( = 7 9 (\# % Z
\#( = 7 \ 0( \ U \ K \ ) \ ( \ K \ 2( \bullet
            BK E #! 8 (#( = 7 9 = # (
      B 3 E 9 3 7 < 7 9 = 7 K A
8 \ 8 \ (\#(7 = 2 \#! 5 \# 7 \ V) \ 09 = \#! 5 \# 70
          BK E 9 = (8+M/A K E
             B7 2( X! 7 #!
2 K * (+96% ( # : (6 4 9 = #! ( •
                B ( E V
        BK E #! / 8 9 = #! / * \bullet
         BK E #! ( 7 9 = #! &2 •
\#( = 7 \ 0( \ K \ 7 \ F3 \ 5! \ 6 < \% \ K \ *(?) 
 % D"8V0M/(HKE809 = #!8(
 11977 % # % -B D 3? /N( ( > 0/"(7 $ # '
```



```
' 9 : ' $I 4
                          $ 9 R ?< C1
C 7 800 # $ ( C # J #! A2( 6
                    )#4 ! N (; $+
           B54-19 - ^{0}5 = = ^{1} 10 - 57 - ^{0}31 K C
        H^2 163233) 2( $ 8 6 A ((
               12004 D $$ # = 7 -B 399172 # $
                          $ ' - C2
      "$. $U 6 ((
( D(
                 >( = E = ( 2 M/
7 ( C
               8
 #4 A ! #! '
                         L
      7
        $ 9 #!
                      $ 5 " 8+!3+!
                             BM / # "
```

ı	. 6	(ı	(/		1	&	1 9)	*	8 0 9	.0	/ R
8.2	7.8	9.2	18.6	23.9	24.7	22.5	20.4	14.1	12	3.2	5.7	E ⁰ D
18.8	25	28.1	35.2	42.7	45.12	40.02	36.08	30.1	29.08	26.04	18.04	E ODS ;
13.5	16.4	18.6	26.9	40.01	41.05	38	33	28.12	25.09	17.05	13.32	E ^o D –
63.7	61	50.9	41	34.3	33	35.8	39.7	40	45.3	51	50.2	%
7.6	15	7.1	3.3	00	1.1	2	11	25.7	14.2	5.5	6	E D <-
3	3.1	2.8	3	2.7	3.3	3.2	4.6	9	3.4	5	4.2	E 8. D M

\$1 1 \$ 9 = (70 > \$% %' 7

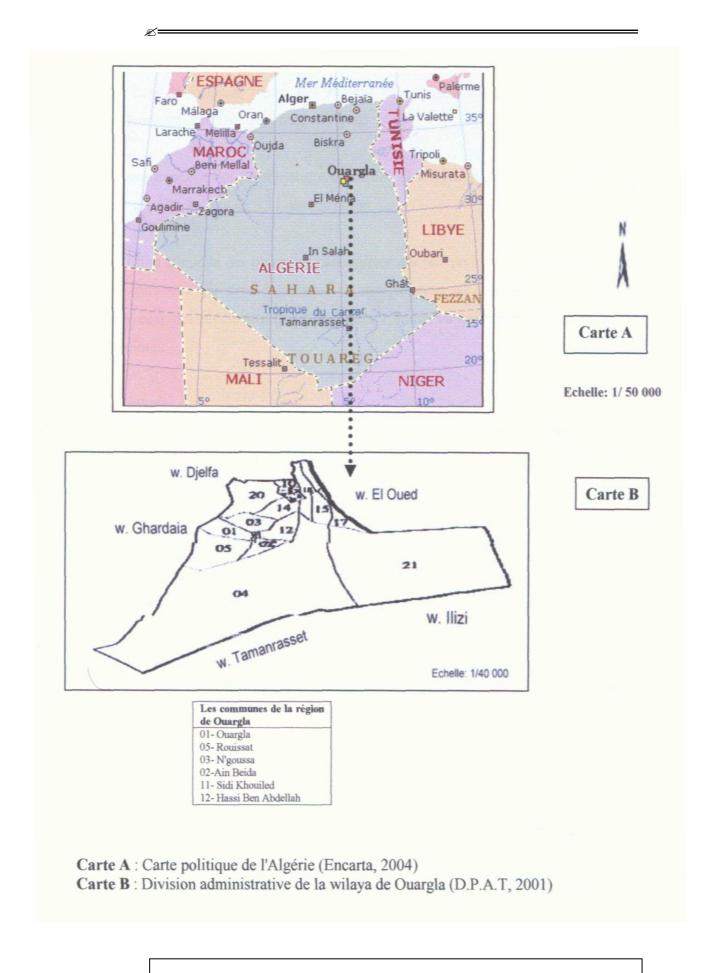
8 0 1f - 28.6 R 2 = (01f - 14.1)

B9 0 %' 9 \$
%' 9 8.6 \ //(#! = (0
B W !0

L 4 (7 L0 D(. ' # ! %' 0

```
4 (7 .
                          ! #!
                              OH L
   B\% 51.3 = = (.
                          U !
                              = 0
                                - C3
A C ( L 9 / ""
                               6 ((
                      (
    1PH - 9/ 3
                       7 (3
                                8 C ($
                       9 C
   11995. -B (
                                ( "(
                              ' 8 C4
                            $
 ) 2004 *(? T$
                   W6 (;8 6 /$((
                   E '4
                        239314
                                   J $
                        40092
                                 9 3'
                        30116
                                  . % E
                        831987
                   2004 . BB
                                  8 C5
  T $ 2= #! $%" 9 ( 7
                          $ 9 ( ($(
                              2004 *(?
                                D $
                      = 282287
                                     $
                                D 3
                      = 44725
                                    $
                      ( 9641120
                                   J $
                      ` 116940
                      = 293309
```

2004 . BB



< ' 9 R ?< T! \$E01D <

```
/ $II 4
                     $1
                        C1
 ) (9 = ' ( 6 #! M% (6 K 0( *
                 $ - ' C1C1
      '( 9 8+ (@3 / ('
4 2( #( 9 8 D H 6 $%" F
                        7
J /4 8+2002 / 9" ( 2= #! K * (70 7 (
          :/4 ! 07
! 19
                          7
# A 2 2= #! K * # 7E > (6
' 0 9 / (7 '(7 708+!3+$ *
       7 ( (7 ( R'09 = \#!
/4 7 9
C = (7 ; \%; 6+ (6.7.7 (5 = /4.7)
          ;# - -5= 8 7 (
         1
                 $> < ?! C2C1
     7 /4 #! 2 E K 8 @%=?
 07 7 A 52$( CE $66 3$ 7 /4 #! 7 ('
      ) ( = 2 8 9 7
                      08 $
                       $ ;( -
                       (92(-
                       *(?. (-
                      # (#( -
                  #
                      (7 #'(J -
                      5 2$( = < ( -
            B101- 5$
```

```
$' > C3C1
 $ /4 (' ;%; 5= R ( 8 9 $( 0
K ( # ! (6 #2( J &'
                    !! 9 8
                     B5 2$( 7 0
                        ) C
                        )
                          )
 3N ( ( = ((T\$ = 7 7 2= :/4 (
  2= :/ = $( #(
# 70 : &'! 7 (= 2 J 7
          B \$\% F . = 7 I 8 (
8 A (( >$ M( 1990 / K * ( 2 $1 2
 4800 ( #( 4800 @ 7 = 8 ($( ^2 600 $
                          BK
= ((T$ = 7 12 2= :/4 ($
: &'!9$ ('
                     ( $%"
      8 A (( >$ M( 1988 / K * ( 2 $ '8
  2400 ( #( 2400 @ 7 = 8 ($(^2 540 $
                          BK
'9 L!; ((T$ = 7 3 2= :/4 ($8'
F . = 7 I 8 ( # 70 :
                         &' !
                         B $%"
```

B 2= #! K * # 7 9 7)E09D < 1

3' - E D	' U	U	ı	
4800	1997	1986		1 01- #
2400	1999	1986	; #	102-#
4800	2002	1990		103-#

```
$III 4
                       $ C1
9 73 '(1K HJ $ H $ - $ 9 ( 9$ 070
9 ( 8 (
          J = 8 + R 0 H
 #! E Q ;(8+A! / D# H#C/N M% (% $
 B 6 R ( 8 ( :/4
K * # . = 7 ( 9 2( 5 = 408 + 5 = ( M/
                       B 2= #!
                $ ' 9 3 / V2
((9 #( C>$ 8+ #( 9 9 7
                       %= $?<
! R'0 +
            (( H 2= #! K * (
              B >$ A # (' &'
              ) (' A 9 407
 K" 7 >$ ' ! ' 9 L ' C>$ J L0 •
      c = (9 = ( > 5 = 7)
            B 2 9 'A ! (8
     : [8 ($(7 0 #! ( C>$ J L0 ●
 #! D
         B (#! 7 < ( C>$
                 B5 (7 07 •
7'(! 7
        2! # 8 ($( 6 C>$ J L0 •
         BBB Z @ ( H 7 H ? . % E
           B ( >$ ' L 9$ &2 •
```

```
$ 3 4 C3
                     $* -2 C1.3
  T$H8 @ $8 (7 (((
>
   B C > S D % = 9 2( 4E 7 2(" 2= #! 7))
   7 6 T $ > $ # ' R ( 8 4 > /4
2= #! ( D 7 7 7 ! C>$ D
             B7 = $E \# (6 J = 4)
                  $E, D C2.3
          ( ? J 2 C>$ J L0
J 2; 8 D 32
 L C>$M4H ( 9 $ #!J ((#(
2 #! 2( = . ' /4 D ' 07 J 2; 8 ($(
(7 D 7 = \$E
7W 7 $0
                     " D /4
             B $ ! 7/+ D( $
  L7 8 ($( C>$ 7X!7 M T$7 0
 09/ $ >$ 2( = "' #!#( H 30-207
 ( 12 3 ( 40.1 \# \$ > \$ = T \$
    B 4800 9/ >$ :/47 (3 # $ "(
                     + - C3.3
$ 'A <"096#.28 ($(
     B
(>$% %' 7 . 2 7 ' ( $ 7 70
\#( $ 7 . \#( 8 ($(62= C>$ J L \#(
B C > $ D & '! 2( =
```

```
$ ! 2 C4.3
 2 /4 . > ( #! (D ( C>$ 9 3 0 >
               B 22 3 0 $ >$ 2(
                         $1 C5.3
   ! >$ 8+ ' $ ' 7 A ( 7
  / 7 " = #! 7 7 7 ( D 8 ($( $ >$
(
8 ((6 R 'E C) JLO 0 =  = 8 >! $
               B 2( = " " #!# (
                         $9 ' C6.3
J $
!; HU /! JE H >$ K -
/! 7 @ 0 ;%; C>$ #! 1
                  J (J $ 8
                     B1 N H = (H -
                    7 \quad \$E10D < 1
                   /!
```

03 3	02 3	01 3	
24	11	20	9 ' ''
9'16	11	12	=
R; 9'8		R; 08	

J \$ @ ((D * '? 5 = 7 (M 4)# (8 C>\$

03	3	02	3	01	3		
R;	4		4	R;	10	M	"
	3						

```
- C6
                      $ 1 - C6A1
 E . > ( #$ ` "( # 7 * 2(
 >$ ' E N( '9 (6 # 0 ; 2(
( ' E = \$\% 6 0 (\$\% ('6
A ;%; D/L / < '(1K D/L-D/N J 8+!3+
 A 5 ( D * D # 2 C% . > 7 W
9 $( >(8 (4 #( 6 * #
         7 J * M/#
2(6 *
                           B 018
          # 2 >$ 8+*
A (8
           B&" % !; J $ = ' *
                      $ C2.6
                       $
                           C1.2.6
#! 'A"(( *(? T$7 % $
                        ( (
 70 7 (52$( 7/7 9$ (8 D $ 2=
    :/4 (( H^0 30 -28 7 2= #! C > \$ ' $
9\$(\#C) = \# M42 \#! 2(= A2)
 $ 8 >!$ /4 70 T $ $ #! $( >
             B 2( = A \cdot 5 = (4 \cdot 0)^{0} \cdot 24 - 20 \cdot 7
                       $ C2.2.6
7 6 2= #! * # 7 70 >$6 5 2$( %' 7
7 26 M/! 2= = > > $ ' = 2 40
  >$ ' = 7W # M 4 2 #! = 2
                           B% 65 #4
```

```
$ 98 C3.2.6
   4 /4 &" #! 9 4 > 7 2= #! 7
                 B = @ J $ 2( = #!)
                         $ C4.2.6
5 = 7 \ 7 \ 3(2 = C) + ! \ C(7) \ 7
# 'U J $ 7 7 J E /! F(! D * '
 5 = 7 /! 6 J E F(" 7 2 6 7 ( %; !
7 R '0 2 = M 4 > $ ' D N(8 (#(
                       BC 9 5 =
= A ( 2 7 6 # ( >( L C>$ #! C (
                                 B 21
                          $ (! 5 C5.2.6
   D 3 7 "( 6 J $ (" L0 2= #! C>$ 7E >
J $ >$ ' D 3? 8 ( C F (
                                  #!
7 (*(? L8 * D3? 7X!7 9$ (
*(+#! * ' / /4 #! 15-14 8 A"(( 11
                        B* A L8+K
A J (( D 3? 70 > $\% 7 9 $ ( \%' 7
                            B 2( =
                          $ R C6.2.6
. 70 6 / # 2 #( E 40 7 /N( ((
              2 D/N $%
            B7
C 2= 8+ (#(.%E 7XL7 9$ (J$
E /N( # = 7 7 L. \% E 70 2 ( L
2 9 $ D 5 = 7 . % E :/4 J (
                       6 _ W (
   9  > (6 ( 34 W 2  8 + A 7  . % E
                    B! = 8 + ! 3 + = #!
```

```
D /+7 , Y 95 # $ 2( 2 2= #! K * #

D/L 7 * ; A ( @ E L 8+ 0 7 /4

Y 125 # $ 2(#! 0 ; 0 21 * 8($ K (

B* 5 ( L 8+ $ :/4 #! 82 K ( D/L 7

B 4800 2 . 7 $E11D < 1
```

	1
E .B D +	2
450	į
500	
600	#"
600	"i
600	
600	!0
600	
600	7
600	
600	9 0
600	(
I.	

```
($( 2= #!: 7X! 7 9$ (#! D J $
# ? D# '( I S = A /4 \% E 7 8
     B 2 = A J (4 * 2 : 704)
                  $ ; < C8.2.6
 . = 7 ( L L = 70 7 (52$( %' 7)
#
           )# !7 &2 /4 2= #!K *
#! 2 L /4 >$ J #! 2 ( K $07 ( 67 J L0 •
2(J /$E 2(($907; 7E 2(=
                B* ; >$ 8+K E
          B =  /\$E   (
          ( $ '9 = E =(
   8
                B=2! D E L (
         " = J = 7 * &$!
       В
       9 "= (8 = 9$(9%3" (•
B!>
      E 0@"( J 3"' ( E ( •
 Q $
                           Ε
                          B
7 7 ( 7 J LO 7X M / $%
                    7 9 = ( •
       B N A = &2 J 9 = #! E K . (
                      $/@ - 9 C7
7 ( 52$( 07/7
               70 7 (52$( %' 7
 9% ( (! ($ T $ H 7 3 #! 2( 9% ( (!
8
                       ) (9
                      B ;( -
                      `"(](-
                    B#$
                      '](-
                    B*
                       B* -
```

```
B9 $ 2 ] ( -
                       B9 $ 2 ( -
                    B 2 . % E -
                    B*(? * 7
                    B* (? * 7
                     B9 *
                        B9
                     B = 9
                     B = 9 > \%
                   #! ( K -
                  B
                     B ( D ( ] ( -
                     B@ * -
9% ( (! ( 7 7 7 7 M 4 9 :/48+!3+
(. ( 7 T$ H 3$ (6 & '#! 3+
                          В '
                          $;@ C8
0T$*(?8 # ?4;W(R #! 2(
                         40 8 ((
8 ( 0 H *(+8 $
                      7 $(8 (
                        B (#2(
7 6 7 70 4 2= R ( 8 > $\% D\# 7
4 M / A K * (< (( / J / #! (4?
&2 8+ ! 3+ H7 R #2( R( . 3 #
                             &2
D# 4 . *(? 4(#!94 J E:/4 H#$%" ?
             B ( & 2((K * ( /
```

```
; <= $VI 4
                           $ C1
    08 2 7 6 ( 0#! 5%= %
                ) 4 7 47 8
                B1=='( 2( H -
                  B1* (? -
                          $
                             C2
 08 ( $ ( = ='(7 6 (+ 0 6
R 7 96% 3!0 >$ A J ('6 7 2(
9 = (67)'EKZ(2CAW)
        B $ ( 9 ? J $ @ ( = (A
7 2= #! 5 2$( 7 / 7 70 5 = /4 7
83 " C>$ 72( 6 M/8 (( <( 40 L J /
D/N 7 9 7 ( 7 70 T $ E Q (#!
# '/ . ( 4 C 9 9 ($6 7 ; 0 D
                         B < 0.7 =
                       $1 2 * G C3
* ( ' ; 0 0 8 + " 7 (*($(
92" @"( 8+ 0 ( = E. (@"( J K
/ K 2 8 7 ( 2 = #!7 J L0 7 M M / ; 0
                        9
                    B
K 2 8 4 ( 7 " 7 7 7 1 5 2 $ ( % ' 7 2 #!
7 9 7 #" (6 #4 #( ' W 7 +
= /4. (9 :/4. ( A #! 7 H 9 . =
                           B 2= #!
```

```
$E 7 2 D C4
             E 2 (
J =( #$%" @ 6
         D !(H$ HA T$7 ('6
       BD
H'[8+# 7 . ('(#3 E 7 "(6 70 /4 #!
. = 7 < 9$ 7 ' < W 4 ( 7
                       ; 7 M !
 2= #! 7 $W D 5 = 7 N( 7
                         $%" F
                            B
                           C5
                        $
    )7 8 + 2( *(? 7 40
                          ( (
@ =='( 2(T$ D" 2('9/
         *(S ( / : 8 . ?
      B
7 W 9 5 = ( 7 2 7 / 4 $
    B 2(7 40 L # ( @ . 7 0@ J$
A /4 $ * (7;0 J=((K *
     B] +BBBK A H! > H/N( >$ ' ; E8 +
     J L 2= #! 7 L0 < 4 7
           7 N( K * ( #! '9/
J (5 = 7) 7-5 7 N( >$ #! T$
# 7+ 7 2( # 2; 8+ 2( 7 D N( 6 J A
  A3 4 (8+!3+ ( #!7 2(7;0 40 < "R
8! ( 4 >$ 7 W 2 6 7 7 M 4 70 T $ 7
                          B 5 2$
                         $+ C6
/'0 2= #! K * # R *(? . (J $ 07
< 9 # /4 70 2= #! 7 $0. = 7 ! 9
2002 (78'(7'[' 4800 9/
                             >$
                     B 6 R (8
```

```
B< " # . = 7 2002 9 = :/4 70
                       3 + C1.6
 '( 2 8+ 0 >$ D 70# 9$ (#!D J $
#!
: 7 ' 9 D + ? 4 ( >$ D ( 7W /4
  K A ( '!LD 8+!3+ #C4
                               4 (
  B(7 200) 9 + "(K 7'( ' " $
    ' ($% 4800 9/ >$ :/4 70
              B2002 L8+1990 %N( (H
\#[ > (08) (\$(4800) 9/ = \&'!)
( 0 1990 4Q(('E:/47X!# < J$
                     7 9 T%;
  = "(9 9 ($%
                          B ( 7 100
                 % 6.66 e 15.1 M%(4S C
        *B 33h333B133 e 15 , 2.000.000,00 e M%(46
              )# ( #! F3 15 %' M%(46
                   >$ . (7 $E12D < 1
```

	& '- L@%=		/ '-
1.866.666,67	133.333,33	2.000.00000,	90/91
1.733.333,33	33,333.133	1.866.666,67	91/92
1.600.000,00	33,333.133	1.733.333,33	92/93
1.466.666,67	33,333.133	1.600.000,00	93/94
1.333.333,33	33,333.133	1466.666,67	94/95
1.200.000,00	33,333.133	1333.333,33	95/96
1.066.666,67	33,333.133	1200.000,00	96/97
933.333,33	33,333.133	1066.666,67	97/98
800.000,00	33,333.133	933.333,33	98/99
666.666,67	33,333.133	800.000,00	99/00
533.333,33	33,333.133	666.666,67	00/01
400.000,00	33,333.133	533.333,33	01/02
266.666,67	33,333.133	400.000,00	02/03
133.333,33	33,333.133	266.666, 67	03/04
0,00	33,333.133	133.333,33	04/05

. E>D	. E>D	2
135	4.5	į
155	5	
186	6	#"
168	6	"!
186	6	
180	6	iO
186	6	
180	6	7
186	6	
180	6	9 (
186	6	(
180	6	((
'< 2108	'	5

BD/N " (7 \$E14D < 1

AE D 5 -	'<	' E>D -
4 B 216 B 000hi i	2 B 000hi i	2108
105 B 000hi i		2 .
4A321A000WXX		(R 50

E D 5 0	E D	E D , 8	(
11 B 000 hi i	10	1 B 100hi i	7 (
37 B 500hi i	25	1 B 500hi i	15 \$ -7 (
15 B 000 hi i	150	100 hi i	9 (!
1 B 700hi i	10	1 B 700hi i	=
804500WX			

E D O	2		
41 B 300hi i	#" H H !		
50B750hi i	!O H H "!		
98 B 061 hi i	H7 H		
75B520hi i	(OH (H9 O		
265A631WXX			

56 =

/4 "((D 70 > \$% 116 - %' 7

B. 0#! \$ E #! (= > A

\$(0 C5.6)

5000 'E /4 7 N! # 8 0 #(9 J \$

B117 - #! ? " (/ #;%; C

D " (7 \$E17D < 1

E D&'- L@ -=	8 @8 . 0
20 B 000hi i	5 B 000 hi i

\$ 0 C6.6 8000 <(832(T\$ 05 >\$ #! B C " (7 \$E180 < 1

' 0	1	&	2	1	11
96 B 000hi i					
96 B 000hi i					
96 B 000hi i		8 B 000hi	i	05	5
96 B 000hi i					
96 B 000hi i					
480A000WXX			<u> </u>		

\$ 0 C7.6

7 # A 5 (* D 2= #! # 2

B119- #! . (

* " (7 \$E19D < 1

0	-	п
1 B 824 B 000 hi i	380hi i	4800

20 B 000hi i	2 " (
1A844A000WXX	5 0

Z=

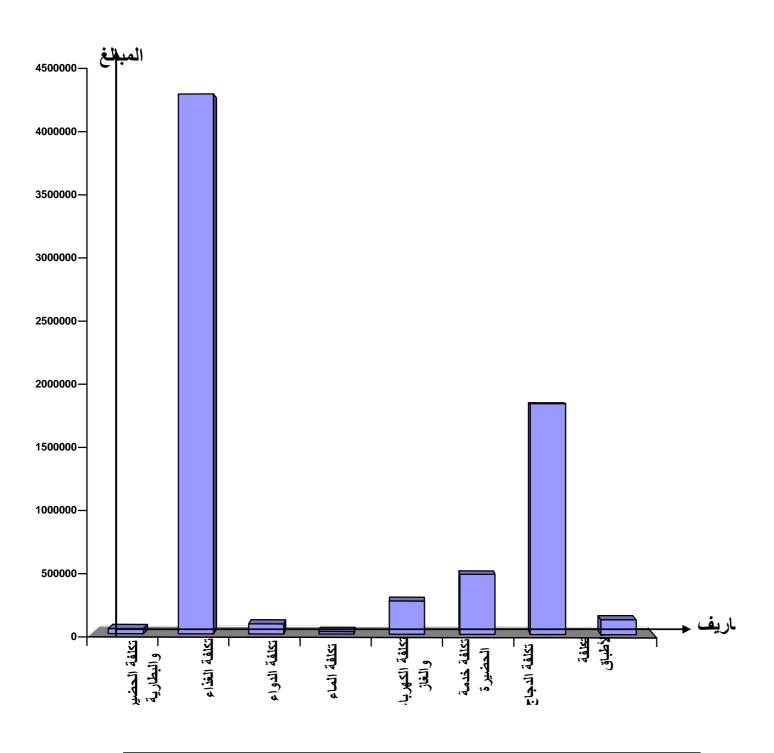
\$> 2 0 C8.6 #! \$3 ? " (L 6 7 7 5 = E J (B120-5 = E " (7 \$E20D < 1

5 0	. , 8	> 2 "
114 B 000hi i	4hi i	28500
5 B 000hi i		2 " (
119A000WXX		

\$ 'Y 5 0 C7
*(S ? " (7 \$E21D < 1

•	•
' 0	+ ;
* 40 B 000 hi i	>\$ " (
* 4B321B000hi i	D /N " (
* 80 B 500 hi i	D " (
* 20 B 000 hi 0	D " (
* 26 B 5631hi i	N D " (
* 480B000hi i	>\$ " " (
* 1B844B000hi i	* " (
* 119 B 000hi i	5 =E " (
* 7.170.131,00	5 0

59



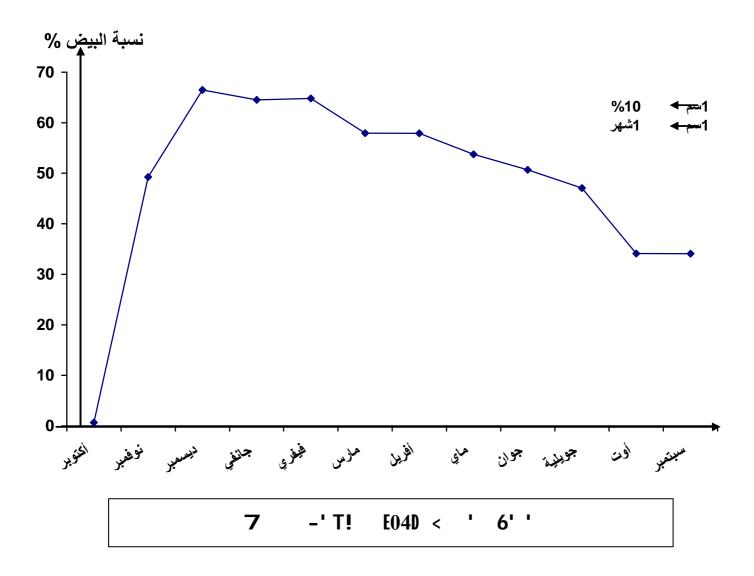
رسم بياني رقم (03) يوضح التكلفة الإجمالية

60 _____

```
$ ' - 6" >
    7 0 ($( D /N " ( 70 >$% # %' 7
  "((;. 7;0;(00%59.5 2(T$
D
        B ? . 7 % 25 # $ 2( *
  "( 2= #! K * # *(?. (70 M/
 D E M/8 . % E " (@"( = (
130000 # $ #! ; ( #( 2 . 2= # 5( 8
. (7 %3.6 # $ ( 9 #( D (!@"( 8+!3+*
7/ 5= # A 2 ' 7 &2(. :/4 *(?
A . % E A 7 C>$ 7 2 . 7 7 "
K''' # ( C 9 J = (6 / U = 8 + ! 3 + 7 3 * (
                          BD (!
                           $ '5 C8
                       $7 '#C1.8
W M/ #C/L 4 L0 $ 9 ( 40 7 K * (+
K 7 (+ #= ( #( 96% (' 8 + #
#( TETRA-SL @ 7 < (' 96% 7½ # <
    /40( K @ R'E 96% 2 (+; ((
                          B J
    N! # R *(? &' #! D 8 D
          B122- #! '
                        %' ( K
                 B%10 9 9 $3@
```

B 4800 %' (K 7 \$E22D < 1

E%D -'	E D ' 7	2
0,68	1016	(0
49,26	70940	!
66,47	98920	
64,51	96004	#"
64,81	93340	" <u>!</u>
57,93	86200	
57,90	83390	!0
53,76	80000	
50,69	73000	7
47,06	70030	
34,11	50770	9 0
34,09	50350	(
	! 854000	' 5
		5



63 =

```
$
                           6">
T$ " 3 9 E #! K ( 70 > $\% 8 $ \%' 7
#! 9' * 7 $ 7E V > M / % OBP j 8 $ 9N
#! *(? 70 > $% T $ % 49.268 + #; #! 9 "; *(?
7 2 #! 0 ; % 66.47 <( /*(? ` 70T; 8($
#! ; % 50.69 8+A ( #! T$7 A
            B% 34.09 ( #! 9 T $ 7 2
 <0 T $ T; 7 kD ( % 70 > $% OC( 7
5 ( L8+ (; 92 2 . 70 L *(? &2 9
   ;W ( *(? &2 $ E %' <0 V3 0 >$% *
       B 3$ ' C 9" 7 L
       '7 (K 5 ( 7X!# <
                            J $
    9 A 92'' + 5 = 7 K A 0 (A \%)
    H O (!L'K 7'((VL = J$0)
 B122- #! F3 4 D K 5 ( 7 O( '
                  K ' F3 $E22D < 1
```

E AD1	! . A -	7
3 B 300 B 0000hi i	5 h 50	600000
1 B 521 B 480 hi i	6hi i	253580
4 B 821 B 480 hi i		# ? '

@ * # ? ' 7 \$E23D < 1

E A D 5 1	.E A D , 8	п
345.600hi i	80 hi i	4320

\$" /@! 0 1 C3.8

= 1	'.E A D	- '/@! 0	./@! 0	
50 B 400hi i	1 B 400l	hi i 36	9 \$	03

\$ 5 1 C9

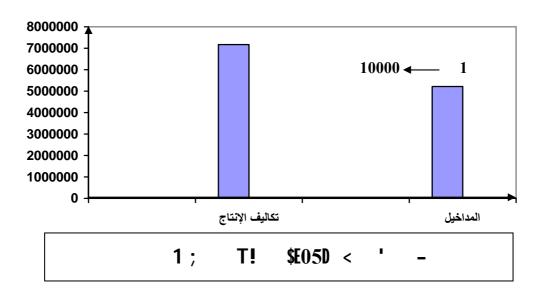
E A D1	'5				
4 B 821 B 480 hi i	K				
50 B 400hi i	9%3"				
345 B 600 hi i	@ *				
5 B 217 B 480hi i	# ? '				

\$! 0 4 - C10

e
$$150$$
B 400 hi i $1345.600,00$ - $-7.170.131,00$ e K ? " (

8hi i # \$ \$ 3 " (70 (%' 7 70 M/H! J * 7hii R (65 #! 8 = * 2B052B251hii # \$ ' :/4 9 T \$ H# \$ C11 A = AJ \$ # (7 (? N(0 #! \$3 # (8 9 #(C" **B1**14-%" 4800) *B) C" 7 \$E26D < 1 B

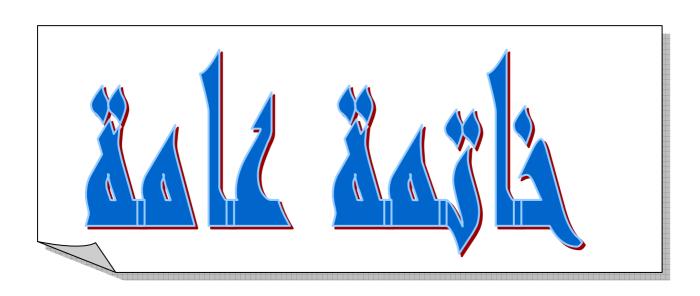
E A D O	E A D1	E AD+	=	•
-1.952.651,00	5B217B480hi i	7.170.131,00	4800	K *



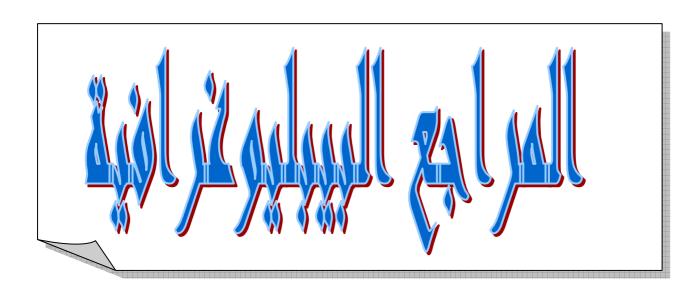
```
$;@ C12
 ( ' C>$ $0 8 9 0 #( (6 %' 7
  #! (:/4 < ( 7 ; ((#( 6 #! K *
* "( 7% ? '*(? . (70 7 ( #! (:/4
    ! 3+D 07  2= = J "( D
@"( 8+!3+2 J=((#( D E
                     . % Z D 2
#! $ E #! ' 2= #! $ J D (!
( 3 " #( ! J E J//( *(? K "' 2
&'! . = 7 # J L > #! R 'E 5= 7 7 2
                              R. J
. 2 / 5C 70 7 (7 7 A 5 2$( %' 7
. (@"( #! ; ( 5C 4 2= #! ( :/4 =( D
  :/ C %' 7 : >$6 /4 E #! J//( *(?
                            B (6
   'R'05= #!K * #
                           2 #!
6
M( = J *(? @"( 2 #! *(? . (@"( 7 7)
7 ! M / ( :/4 9 =( . % E A 7 #4 #( 5=
                            " (7
#! 5= M( / U J D (!@"(6 2
( 2= #!K # ( J $8 E #!U 7 ' 2
*(?7'(0K" 4 / 5 #! $ *( 5 (
*(? A 8 + 2 = #! 7 ( = 3 M/K . %(+ # (
               B K" 8+ 0 5 #!
```

```
/ <= > $V 4
                        --=> C1
A (8+90#(5C 7 : 0 / T$
   (5C 4 5C 70 7 ( 6 #! K * (
                      ) ( = 2 #! M / & '(
                       )*(?.(@"( -
6 #! K * (. (70 7 ( (6 %' 7
   @ "( 7
              (
                             "(
                     = J
                            . % E
    ' D E 4 2= # < 70 D
2=
  2 #! *(?. (@"( #! D 2 '
       B C" #! &2
                        2( J *(?
                    ) //( E #!! -
8 $ E 70 6 #!! J = (5 (7
#! K # ( 70 M/ HJ = K M/ * (
7 	 (7 = (5 (5 8+70 2=
   EK" 8+ 0 K #! # ( R'05= 7
"( *(? . (7 7 ( 7/ 2= # ( R C" K" # (
K "' 50 7 7 < 0 0(( M/R 'E 5= #! 7 ( A 2
                        B //( K 0
                           '8 > C2
                       $ ' 1 C1.2
    (K((2( 7(52$( T$ %'7
          ) ( = 2 #! ' #4 #( 7 2= #! K
         (9 0 H9 = -4 0@"(9 (&2 -
       B1
         B (" (@"( . % E 7 ( @"( -
                B (6 \# 2( = ='( J L -
              B4 0@"( 9$2 E&2 -
```

```
B1BBB D 3? H ( H! > H $ - ( = $ = ($ -
               B ( . L 7 '( 9 $ J L -
                     B 2( J L -
                 B7 '5 0
               B ( (&' ! '&2 -
                     J 92" @"( -
                     $1 / <5 C3
#! K * (4(8+90#( 50 8 3 (
         :/4 $ (#( $ 7
                             (2 2=
:/4 7 7
                              ) $
 9 ( C ! ( 2= # $%" 9 =
                              B E
  (K"'(*(?.. (7 K"'(<W 7 7 2(-
          9 . = 7 4 $(
                        E D
         B
                   B7 ' 5 E ! ( -
         B E Q 7 A! K 2 9 (? F -
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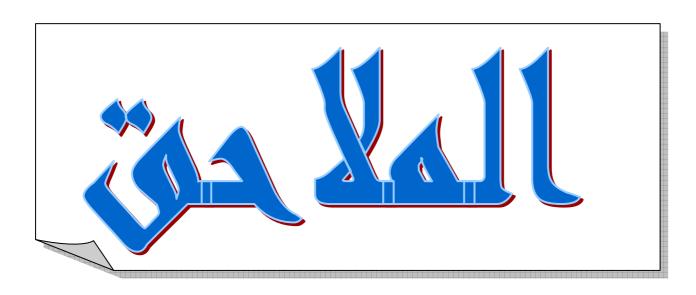
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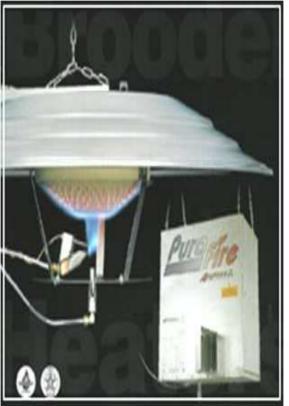
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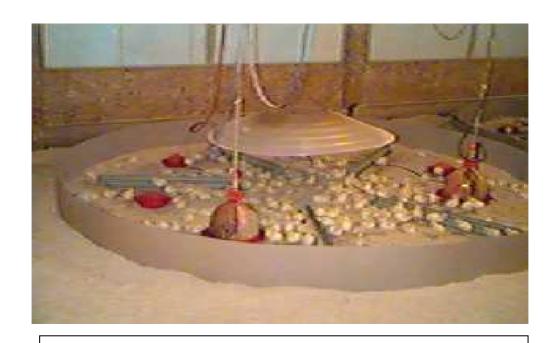
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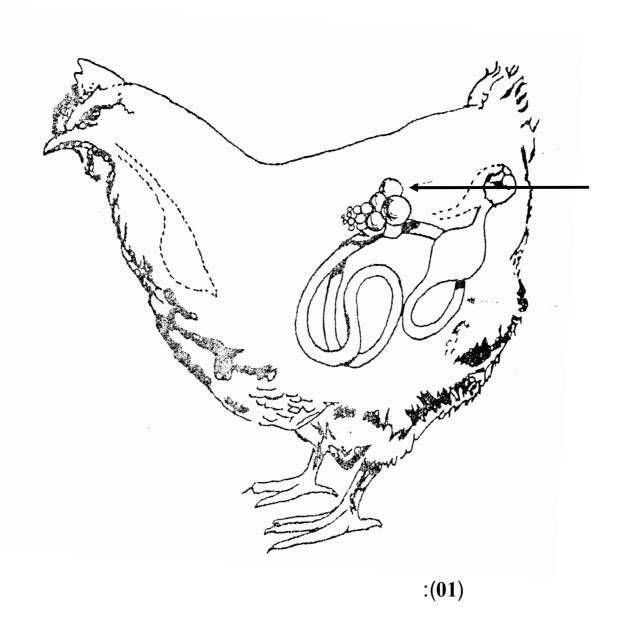
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