# Participatory assessment of vulnerability and planning of adaptation to climate change in the Yatenga, Burkina Faso

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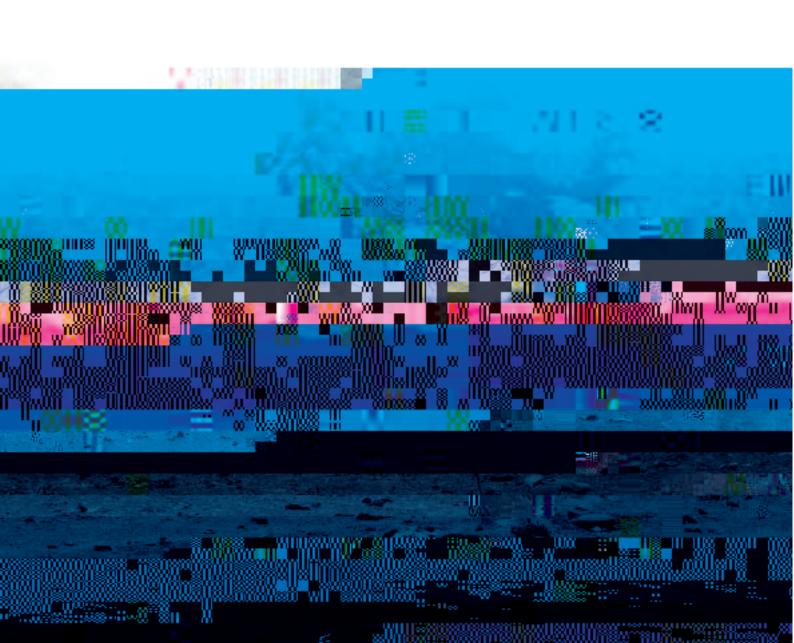


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I. I+1/, "2!1", + 1.1. B46>:EBHA7 1.2. #HFG%64G&BA
<ul> <li>II. M#1&amp;, ",),%6.</li> <li>2.1. CBA68CGH4? 9E4@8JBE&gt;</li> <li>2.2. C;4E4668E<fg< li=""> <li>668 B9 G;8 FGH7L 4E84</li> <li>2.3. +8?866</li> <li>88 AGEL 6B@@HA&amp;L 4A7 F64?</li> <li>A1 D464 6B??866</li> <li>A47 4A4?LF</li> <li>46 G;8 6B@@HA&amp;L ?818?</li> <li>2.5. D464 6B??866</li> <li>BA 4A7 4A4?LF</li> <li>F 46 G;8 FHCE4-6B@@HA&amp;L ?818?</li> <li>2.6. &amp;4<afge84@<a: 7<@8af<="" :8a78e="" li=""> <li>BA 7464 6B??866</li> <li>BA 4A7 4A4?LF</li> </afge84@<a:></li></fg<></li></ul>
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<ul> <li>3.2. AFF8FF@8A6 B9 6; 8 &lt;@C466F 5L 6468 : BEL B9 6?</li> <li>@468 ; 4M4E7F 4A7 E8?4687 474C646; BA F6E468 : &lt;8F</li> <li>3.2.1. DEBH : ; 6 4A7 6; 8 E8?4687 474C646; BA F6E468 : &lt;8F</li> <li>3.2.2. +6EBA : J <a7f 474c646;="" 4a7="" 6;="" 8="" :="" <8f<="" ba="" e8?4687="" f6e468="" li=""> <li>3.3. EK68A6 6B J ; &lt;6; 6; 8 ?</li> <li>I87: BB7 E8FBHE68F 4E8</li> </a7f></li></ul>

## TABLES

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### ACKNOWLEDGEMENTS

;8 4H0; BEF 8KCE8FF 0; 8 € : E400H78 0B 0; 8 CCAF+ CEB:E4@ 0; EBH:; "C\*"+A, J; 6; 9HA787 0; 8 J BE> 4A7 ;87C87 @4>8 0; F A9BE@40ABA 41404578 BA 1H7A8E45000 4A7 6BCA: F0E408:48F B9 EHE47 6B@@HA00A8F 0B 670@408 6; 4A:8. / 8 47FB 0; 4A> 477 C8BC78 4A7 (AF00H06BAF J; B C4E006C4087 (A 0; 8 CEB68FF (1074:8 J BE>F; BCF, CEB14A6047 J BE>F; BC) 0; 40 787 0B 0; F 7B6H@8A0. (HE 0; 4A>F : B C4E006H74E7L 0B C8BC78 9EB@ 0; 8 1074:8F B9, 508A:4, \*4@7B774, %8@AB:B - &BFF4, )450B 4A7 \$BH54-; 3BH. / 8 8K08A7 0; 8F8 46>ABJ787:@8A0F 0B 78647 (F (A 0408A:4) EB14A68 (B454 / "A08E1474, ADEFAD, A) \* (+4A7 F' '), A400BA47 ' (F (C\*ED(, -F\* (A, -BHE>A4 F4FB) 4A7 477 F0EH60HE8F (C"%++, /F), C ('A+-\*, D0E860BE408 B9 &808BE87B:L, +)-C) +A, C ('EDD) J; B C4E0060C4087 (A 0; 8 CEB14A6047 JBE>F; BC 0B 74F6HFF 0; 8 7404 6B7786087 (A 0; 8 9018 1074:8F. / 8 4E8 0; 4A>9H77 0B 0; 8 0; E88 E8: (BA47 76E860BE408F B9 @(A4F0E8F (A 6; 4E:8 B9 EHE47 78187BC@8A0 (&A+A, &\*A! 4A7 &EDD) J; B C74L87 4A (@CBE04A0 EB78 (A 0; 8 (@C78@8A6400BA. ,; 8 4H0; BE008A0 (&A+A, &\*A! 4A7 &EDD) J; B C74L87 4A (@CBE04A0 EB78 (A 0; 8 ) 0; 8 \*8: (BA47 0; 8 ) 4L8E B9 \$BH0956(7858E18 BHE : E4600H78 9BE 0; 8 (460018 C4E006C400BA 4A7 0; 8 ) E89866 4A7 0; 8 &4LBE B9 \$BH0956(7858E18 BHE : E4600H78 9BE 0; 8 (460018 C4E006C400BA 4A7 946000BA. ; 8 4H0; BEF 4E8 FB787L E8FCBAF578 9BE 4AL 89BE 0; 8 (460018 C4E006C400BA 4A7 946000BA. ; 8 4H0; BEF 4E8 FB787L E8FCBAF578 9BE 4AL 89BE 0; 8 (460018 C4E006C400BA 4A7 946000BA. ; 8 4H0; BEF 4E8 FB787L E8FCBAF578 9BE 4AL 89BE 0; 8 (460018 C4E006C400BA 4A7 946000BA. ; 8 4H0; BEF 4E8 FB787L E8FCBAF578 9BE 4AL 89BE 0; 8 (460018 C4E006C400BA 4A7 946000BA. ; 8 4H0; BEF 4E8 FB787L E8FCBAF578 9BE 4AL 89BE 0; 8 (4 460018 C4E006C400BA 4A7 946000BA. ; 8 4H0; BEF 4E8 FB787L E8FCBAF578 9BE 4AL 89BE 0; 8 (4 460018 C4E006C400BA 4A7 946000BA. ; 8 4477L, J 8 0; 4A> DE. !H58E0 '7=494 (H4:4 J; B 68A08045H087 0B 0; 8 F608A0046 E8108 J B9 0; (F 7B6H@8A06. ; 8 4H0; BEF 4E8 FB787L E8FCBAF578 9BE 4AL 80EBEF 0; 40 @4L E8@44A.

## NOTE ABOUT THE AUTHORS

+B@74 #46DH8F4, 01 B) 1618 (H4:47BH:BH 01, BHE><A4 F4FB; #HE(##282507 5315 (#37285) J.@ 033275 J.J. (28256 00 T

# RE . I E E E . .

) 'après le 4<sup>ème</sup> rapport IPCC, 2007, les scénarii futurs du changement climatique pour l'Afrique de l'Ouest indiquent que la variabilité climatique actuellement vécue risque d'augmenter et de s'intensifier.

développement dans la province du Yatenga. Au cours de cet atelier, tous les outils d'analyse de la vulnérabilité et de

EHE4? MBA8 6;4E4668E4M87 5L 4 +4;8%4A 6%@468 (&A ! \* !/DAD"/FA (, 2010). %<18%;BB7 E8FBHE68F 4E8 78E<187 9EB@ 4:E<6H%HE8 (68E84%F, @<??86, FBE:;H@, 6BJC84 4A7 :4E78A<A:), %18F6B6> (F8@<-AB@47<6 4A7 E4A6;<A:) 4A7 B6;8E (4E%F4A4? :B?7 @<A<A:, 4E45<6 :H@).

/ &; 6;8F8 9846HE8F 4A7 <A 6;8 6BA68K6 B9 6?</td>6;44:8,46;<81<A: FHF64<A45?8 9B7 F86HE&L <A 4A 4E84 J.&;</td>;<:: CBCH?44&BA :EBJ6; <F 4 @4=BE 6;4??8A:8. A74C64&BA 4A7 @&:4&BA B9 F6E468:</td>8F 9BE 6?6;44:8 6;8A586B@8 8FF8A&? 46 4?? ?818?F 4A7 C4E&6H?4E?L 46 6;8 ?864? ?818?, J;8E8 CB18E6L <F @BF6 CE814?8A6 4@BA:</td>CBCH?4&BAF. BH6 6;8 FH668FF B9 @&::4&BA 4A7 474C64&BA F6E468:8F 6B 6?9B6 ?2814?8A6 4@BA:CBCH?4&BAF. BH6 6;8 FH668FF B9 @&::4&BA 4A7 474C64&BA F6E468:8F 6B 6?9B7 CE814?8A6 4@BA:CBCH?4&BAF. BH6 6;8 FH668FF B9 @&::4&BA 4A7 474C64&BA F6E468:8F 6B 6?9B87 CEB7H6&BA FLF68@F.;858 6;4A:8F 6;8@F8?18F A887 6B 58 C?4AA87, @BA&BF7 CH6 <A C?468 4A7 6;8 6HE8A6 9B7 CEB7H6&BA FLF68@F.</td>;8F8 6;4A:8F 6;8@F8?18F A887 6B 58 C?4AA87, @BA&BF7 CH7 814?H4687 6B 8AFHE8 6;8L 4E8 <A ?A8 J.&; 6;8</td>474C64&BA 4A7 / BE @&::4&BA B9 6?86;4A:8.888

, ;8 HF8 B9 FH6; 4A 4CCEB46; <F 8KC86087 GB <@CEB18 HA78EF04A7<A: B9 6;8 <@C?64648BAF B9 6?</p>
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6;8 ?
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18F 4A7 68F 686;AB?B:L 4A7 68F 686;AB?B:E 74668BF 986 474C648BA
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448 68 6;4A:8 A BE78E 68 A9?H8A68 A468BA4? CB?668F, ;8 E8F 84E6; DH8F68BAF 488 4F 98?BJF 526 (A 6;8 HF8 B9 68B?F 986 C?4AAAA: ;0 @BA468E4A: 4A7 814?H468BA 98F 686 (A 6; 4A:8F 4 58; 418)H8, 587 4668BAF; CF 4A7 4668BAF 68 474C6 68 6; 4A:8? (2) 18 J 78 EHE4? 4668EF @
4>8 HF8 B9 6; 8F8 68B?F?

# II. METHOD

A 54F8:A8 FHE18L 6BA7H6687 (A G; F 4E84 F; BJ87 G; 4G 4: E46H%HE8 E8@4(AF G; 8 @4(A 86BAB@46 CEB7H6&BA 46&14L 4A7 EHE4?; BHF8; B?7F @4(A?L 78C8A7 BA 46 9BE G; 84 : 18?(; BB7 (+B@0 86 4?., 2011). A66BE7(A: GB G; 8 F4@8 FGH7L, G; 8 @44=BE4GL B9; BHF8; B?7F (74%) (A G; 8 CEB:E4@ (A68E18A&BA 4E84 9468 9BB7 (AF86HE4GL , ; F 5E(A: F G; 8@ GB 47BCG A8J 46G&H78F (A G; 8 @4A4:8@8A6 B9 6EBCF, 94E@(A: CE466&68F 4A7 HF8 B9 9BE8FG : BB7F 4A7 F8E1468F. DE(14A: 9466BEF (BE GE(:: 8EF) B9 G; 8F8 58; 41 (BE4? 6; 4A: 8F 448 4@BA: BG; 8E 6?(@4G8 14: 4E48F, @4E>86F, 4: E46H%HE4? (4A7, ?45BE, C8FGF/7(F84F8F 4A7 8K68EA4? (A68E18A&BAF 5L CEB=866F. , ; 8F8 9466BEF 4E8 E8CBE687 5L 80% B9 ; BHF8; B?7F FHE18L87 (+B@0 86 4?. 2011), 4F >8L 9466BEF (A G; 8 B66HEE8A68 B9 6; 4A: 8F (A 4: EB-FL? 1B-C4F6BE4? CEB7H66&BA FLF68@F (A G; 8 4E84.

,;HF, G;8 <@C466 B < CEG G;8 , G;8 <AG8E18AG<B8 4 8 B EIE , G;8 EA4 8 C C4 G



b): Participatory mapping of resources and climate change hazards as perceived by Tibtenga women

Figure 3: Participatory maps of key resources and climate hazards in Tibtenga, Yatenga, Burkina Faso.

, ;8 C46&6C46BEL @4CCA: B9 E8FBHE68F 4A7 6%@468 ;4M4E7F FH::8F6F 6;46 @8A 4A7 JB@8A (A %18 6B@@HA&8F ;418 CB<AGF B9 6BA18E:8A68 4A7 7<18E:8A68. , ;HF, 4@BA: 6;8 9BHE @BF6 <@CBE64A6 A46HE4? E8FBHE68F, 4:E66H%HE4? ?4A7F 4E8 8DH4??L <@CBE64A6 9BE @8A 4A7 JB@8A. / ;<8 %18F6B6> 4A7 C4F6HE8 ?4A7F F88@ @BE8 <@CBE64A6 9BE @8A, 9H8? JBB7 <F 6BAF<78E87 @BE8 <@CBE64A6 5L JB@8A. "A 68E@F B9 C;LF<64? E8FBHE68F, @8A 4A7 JB@8A ;418 8DH4??L <78A64%87 J468E <A9E4F6EH66HE8. A:E6H%HE4? 8DH<C@8A6 4A7 @BFDH8F (<@CBE64A6 9BE CE4L8EF 6B 4F> B7 9BE @BE8 941BE45?8 6%@466 6BA7<&BAF) ;418 588A <78A64%87 5L @8A, J;8E84F JB@8A ;418 E898EE87 6B ;BHF8F.

#### Table 1: Assessment of the extent to which climate hazards influence livelit esources

Climate hazards	Drou	ıght		trong vind	Fl	ood		Total	
<b>Resources</b> /Gender group	Μ	W	Μ	W	Μ	W		W	Т
Natural Resources									
Farm lands	5	5	5	4	4	-	14	9	23
Livestock	5	-	5	-	4	-	14	-	14

Pasture lands

Note: - means that the group did not report the resources or the climate hazards as important.

- M = Men group; W = women group and B = both groups.
- S . \_ 20 2 []3121 [] 30] [] []3 200 [] []2 []3 200 []3 200 [] []3 200 []3

#### 3.2.1. D/, 2%&1 a+" 1&# /#)a1#" a"a-1a1', + 01/a1#%'#0

FEB@ 6;8 JB@8A C8EFC866<18, 6;8 B5F8E187 <@C466F B9 7EBH:;6 4E8 6;8 786?(A<A: B9 4:E<6H?(C15Td(?)d(4)TJB(\*)) - 4TJ9) -

Observe s r r ∿r <sup>1</sup>	🖉 rees	rs reve				
e						
Decrease in agricultural production	Buying foodstuff with money from various petty trading (BF)	No preventing factor was identified				
Water shortage	Building boreholes (BB)	Insufficient financial resources.				
Degradation of grazing lands	Valuing fodder Trees(VFT)	Inappropriate legislation.				
e						
Decrease in agricultural production	Use improved/adapted seeds (UI/AS)	Low availability of adapted seeds.				
Water shortage	Increase the availability of water resources (IAWR)	Insufficient material and technical assistance.				
Mortality of trees	Development of farm lands and assisted natural regeneration (DFL&ANR)	Insufficient technical and material assistance.				

#### Table 2: Obseve a tso o ta elate a a tapo state es

ote:-eastatteo otepetsat la eso eo opas onat M<sup>M</sup>Ma onana bot os

Source: Community groups iscussion 2 2

#### 3.2.2. S1/, +% 4'+" a+" 1&# /#)a1#" a"a-1a1', + 01/a1#%'#0

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A6?H7
A: 6; 8 786?
A8 <A</td>

9EH
CEB7H66
CEB7H66
BA, 6; 8 786?
A8 <A 4: E<6H?0HE4?</td>
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BA, HCEBB6
A7 0; 8 786?EH66
B9; BHF8F 4A7 6; 8

7846; B9 4A
@4?F. A@BA: 6; 8 558E187 <@C466F 5L JB@8A, 6JB 4E8 F<@</td>
G: 8 786?EH66
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A74C646BA F6E468: <8F <@C?8@8A687 5L @8A 4: 4<AF6 6; 8 B5F8E187 <@C466F B9 F6EBA: J<A7 4E8:

- n The purchase of food using incomes from petty trading 6B @4A4:8 6;8 786?A8 <A 4:E<6H?6HE4? CEB7H6&BA,
- n Strengthening of houses designed with local materials (B CE818AG ); 8 78F6EH6GBA B9; B@8F 4A7,
- n The increased surveillance of animals GB E87H68 G; 8 & 784G; .

+B@8 B9 6; 8F8 F6E468: (8F; 418588A9BHA76B58(A899866(184A7HAFHF64(A45)84A74)(8EA46(18F; 418588A(78A66(87.); 1864))) (78A66(87.); 187, 6; 8F6E8A: 6; 8A(A: B95H(7(A: F78F(A87J6); 8B4)))  $(468E(4)^{2}F64A76; 85864HF87864))$   $(468E(4)^{2}F64A76; 85864HF87864)$   $(468E(4)^{2}F64A76; 85864HF87864)$   $(468E(4)^{2}F64A76; 85664HF87864)$   $(468E(4)^{2}F64A76; 85664HF86464)$   $(468E(4)^{2}F64A76; 84664)$  (58664F64) (58664F64) (58664F64) (58664F64) (58664F64) (58664F64) (58664F64) (58664) (58664F64) (58664)(58664)

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)  $\frac{4}{4}$  (F 4 CEB68FF B9 BE: 4Adda: E8FBHE68F  $\frac{6}{8}$  46;  $\frac{8}{8}$  789 $\frac{4}{8}$  747 44 $\frac{1}{8}$  744 $\frac{4}{1}$  749 $\frac{1}{8}$  740  $\frac{1}{$ 

2H**(HCG) )] 322 EU(4); 563 322 EU(4); 563 322 EU(4); 563 323 527 EU(4); 574 EU(2): 564 (EU); 574 (EU); 574** 

(A68 6; 8; 4M4E7F, 6; 8<E < @C466F 4A7 68EE<6BE<4? < A9?H8A68 4E8 > ABJA, 6 < F < @CBE64A6 6B AB68 6; 46 BA8 474C646</ > BA8 474C646



#### Tablê6 ພະຂໍພະ ຂໍ o ci or a corce or ce oa lyasla aio ພra cice viel ciidel by o n<sup>c</sup>

Climate hazards	Drought			Strong wind				
Resources/Strategies	DFL/ ANR	IAWR	I/A	Total	R	А	DFL/ ANR	Total
Natural resources								
F								
Fí								
Physical resources								
Wí								
Financial resources								
A í								
Ií								
A í								
Human resources								
Î								

DFL/ANR = development of farm lands /assisted-natural regeneration; IAWR = Increasing water the availability of resources; UI/AS = Using of improved/adapted seeds; SHR = Strengthening houses' roofs with adapted materials; PAS = Planting adapted species.





0;4050% B9;BHF8;B?7 E8FBHE68F 4E8 8KCBF87 G8 9?BB7,5H030% 4E8 F8AFG<18.;8 @4<A E84FBA J;L 4;BHF8;B?7 <F F8AFG<18 GB 4;4M4E7 <F @4<A?L 7H8 GB 6;8 9466 0;40 @H6; B9 GF E8FBHE68F 4E8 HA78E 0;8 G8EEGBE<4? 6BAGEB? B9 6;8;4M4E7 4:4<AF0 4 F@4?? CEBCBEG<BA BHGF<78 GF 6BAGEB?.,;8 F86BA7 E84FBA :<18A E8:4E7<A: 0;8 F8AFG<1<0 L <F 0;40 0;8 414</45?8 6EBC 14E<86<8F 4E8 AB0 474C687 GB 0;8;4M4E7 4A7 0;8E89BE8 64AAB0 E8F<F0 GB GF 899866F.

C .	Observed key impacts	% of households exposed	% of households impacted
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		-	-

Table 8: Perceived level of households' vulnerability to climate hazards by men group

SJ mmJ Jp J 22

(G;8E & ;<

(6;8



#### 4.2. C&a))#+%#0 ,\$ 1&# #&a3', 2/a) !&a+%#0 1, a !&'#3# 1&# 3'0', +



Ta )# 12: A!1', +0 a+" -a/1+#/0&'- \$, / a"a-1a1', + '+ /#)a1', + 1, +a12/a) /#0, 2/!#0



Decrease a r c ra PT c (cr PD ss)fa f cr PD f PD a s e c

+BHE68: +HCE4-6B@@HA&L JBE>F; BC B9 6; 8 CCAF+ 5BHA74EL C4E6A8EF (2012)



## **V. CONCLUSION**

;8 8K;8 8K;8 8K;8 84;8 474C;8 84;8 84;8 84;8 84;8 84;8 474;8 84<td

- , ;E88 @4=BE ?8FFBAF 64A 58 ?84EA87 BA ;BJ 6B@@HA&k8F ⟨A 0468A:4 ;418 HF87 F<@C?8 6BB?F 9BE C?4AA⟨A:, @BA&BE⟨A: 4A7 814?H4&BA B9 6;8€ 64C46&L 6B 474C6 6B 6?<@468 6;4A:8:
- n \*HE4?6B@@HA&&F;41878@BAF&&874:BB7HA78EF&A7A:B90;8E8?4&BAF;<C586J88A6?@468;4M4E7F 4A70;8&B5F8E1874A79H6HE8<@C466F,4FJ8??4F0;8?@&FB94H6BAB@BHF474C&&&BAF6E&&86;8L;418 <@C?8@8A&876B74&8."9686;A<64AF4A7EHE4?6B@@HA&&8FFC84>6;8F4@8?4A:H4:8BA<FFH8FE8?4&876B 6?@4686;4A:8,6;8LJBH?75845?86BF;BJ0;466;8?818?FB98KCBFHE84A7F8AF&<1<&B94:E&H76HE4? CEB7H6&BA4E8AB66;8F4@8<AEHE4?4E84F.;8E89BE8,6;81H?A8E45&C&FA86;B@B:8A8BHF4A7<&E&AF6 6;4E4668E<F&6B94:<18AF866BE,5H6<F9HA6&BAB95B6;6;87818?B98KCBFHE8,F8AF&<1&4A76;864C46&CB9 466BEF6B<@C?8@8A6474C687686;AB?B:<8F;
- n \*HE4? 6B@@HA&&F ;418 F;BJA 6;46 477&AB 6B <@C?8@8A&A: 4H6BAB@BHF (FCBA64A8BHF) 474C64&BA F6E468:<8F, 6;8L ;418 6;8 64C46&L 6B C?4A 9BE 474C64&BA. "A C4E6&6H?4E, J;8A 6;8 C?4AA<A: 6BB?F 4E8 FH9%&A8A6?L C4E6&C46BEL, 6;8L 64A 7818?BC 6B;8E8A6 I<FABA B9 7818?BC@8A6 6;46 4>8F <A6B 466BHA6 6?@468 6;4A:8 474C64&BA.,; F I<FABA E8CE8F8A6F 6;8 78F&7 F&H4&BA <A J;6; 6;8L JBH?7 <>8 6B 58 78FC&8 6;8 6?@468 ;4M4E7F.,;8L 4?FB E84?&M8 6;46 9BE 6;8 6;4A:8 <A 6;8& 6HEE8A6 F&H4&BA 6B ;4CC8A, 6;8L A887 6B 6;4A:8 6;8& 58;4I<BE, E8?4&BAF; CF, 46&I&&FA7 46&BAF <A J4LF 6;46 4E8 941BE45?8 6B 6;8 46;&18@8A6 B9 6;8& I<FABA.,; F 64>8F <A6B 466BHA6 47=HF6@8A6F <A 6;8 E8?4&BAF 586J88A 466BEF, 5H6 4?FB <A7<1<7H4? 47=HF6@8A6F E8:4E7<A: 6;8 J4LF 818ELBA8 <@C?8@8A6 ;<F (;8E) 466<I&&F;
- n F<A4?!L, EHE4? 6B@@HA&&F ;418 F;BJA 4J4E8A8FF 6;46 474C64&BA 6B 6?@468 6;4A:8 J<? AB6 6B@8 BA?L 9EB@ 6;8 BH6F<78., ;8L 4E8 4?FB 4J4E8 B9 6;8 ?B64? CBFF<5</ki>

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